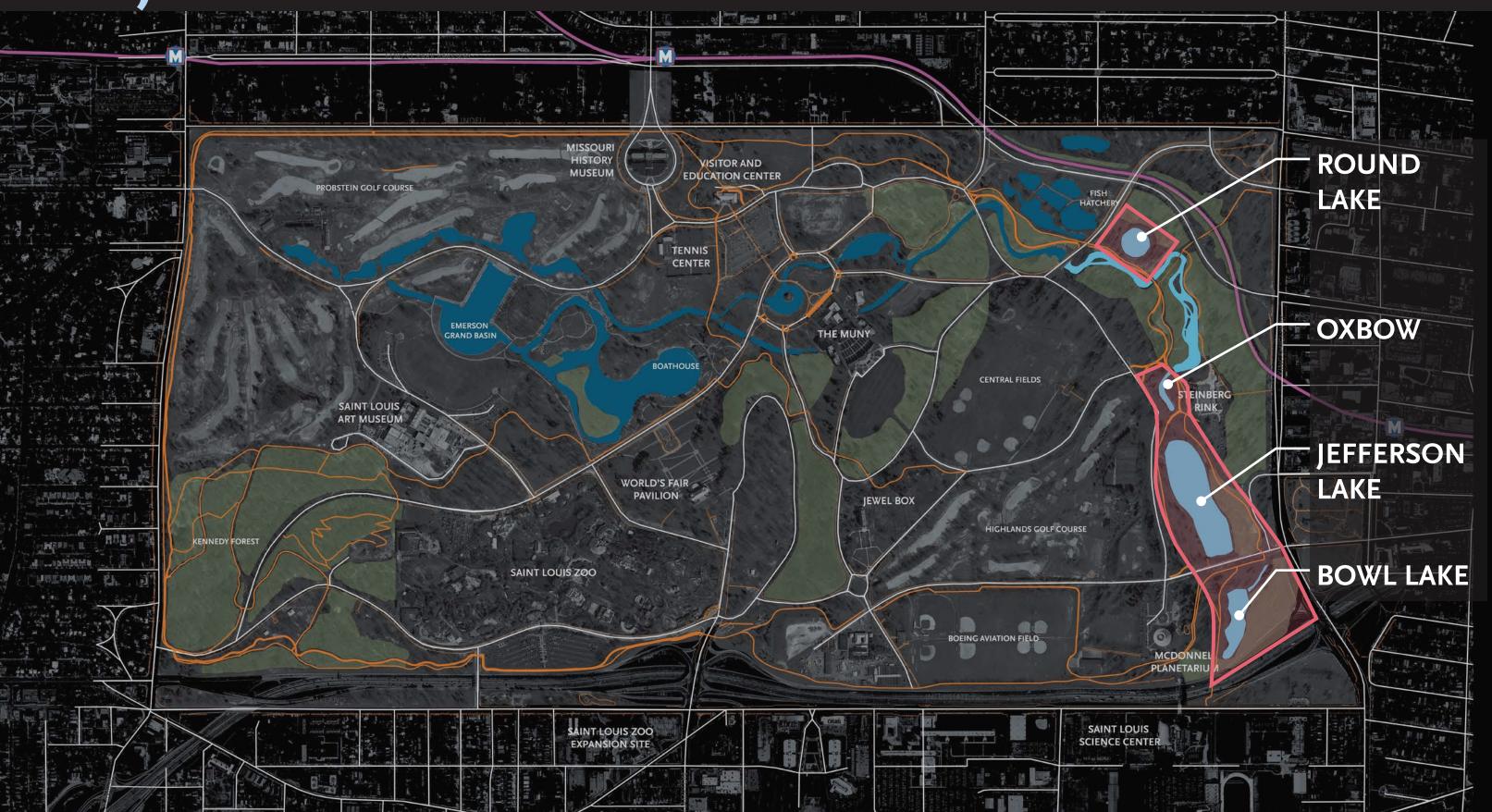
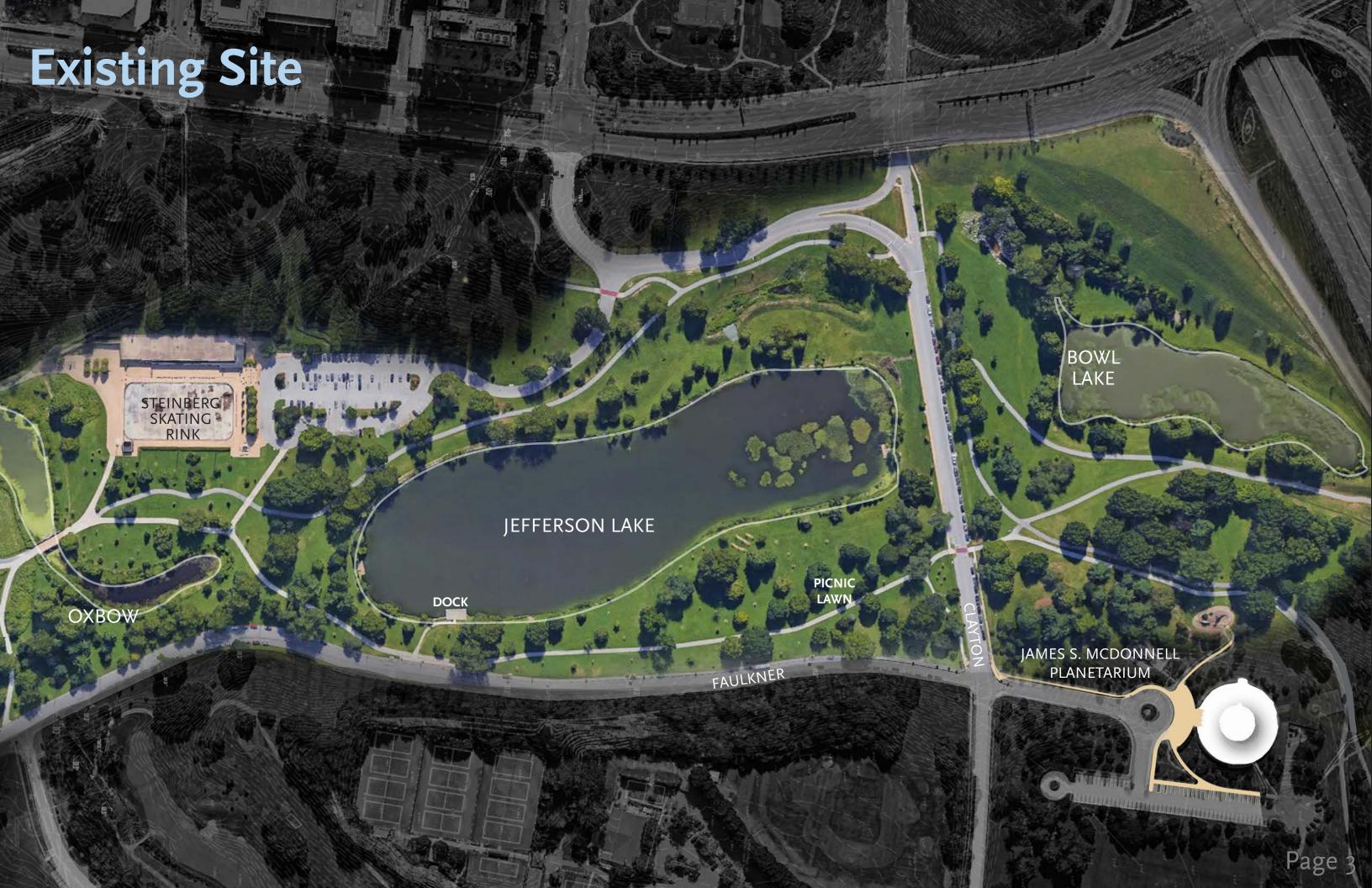


Project Context





Bowl Lake Existing Conditions













Jefferson Lake Existing Conditions













Oxbow Existing Conditions













Sustainable SITES Initiative

SITES GOALS

Create Regenerative Systems and Foster Resiliency

- Protect and restore natural resources such as soil, water, and vegetation.
- Encourage biodiversity.
- Enhance landscapes to provide multiple ecosystem services such as cleaning air and water, providing habitat, and storing carbon.
- Mitigate for evolving hazards and natural disasters.
- Plan for monitoring and adaptive management.

Ensure Future Resource Supply and Mitigate Climate Change

- Minimize energy consumption and encourage use of low carbon and renewable energy sources.
- Minimize or eliminate greenhouse gas emissions, heavy metals, chemicals, and other pollutants.
- Reduce, reuse, recycle, and upcycle materials and resources.
- Conserve water.
- Increase the capacity of carbon sinks through re-vegetation.

Transform the Market through Design, Development, and Maintenance Practices

- Foster leadership in industry and professional practice.
- Use a systems-thinking, integrative and collaborative design approach.
- Use lifecycle analyses to inform the design process.
- Support local economies and sustainability policies.

Enhance Human Well-Being and Strengthen Community

- · Reconnect humans to nature.
- Improve human health (physical, mental, and spiritual).
- Foster stewardship by providing education that promotes the understanding of natural systems and recognizes the value of landscapes.
- Encourage cultural integrity and promote regional identity.
- Provide opportunities for community involvement and advocacy.

				Control of the Contro		
SI	T	ES	v2 Scorecard S	ummary		4/19
YES	?	NO				1111
10	0	3	1: SITE CONTEXT	Possible Poi	nts: 13	
Υ			CONTEXT P1.1	Limit development on farmland		
Υ			CONTEXT P1.2	Protect floodplain functions		57.5
Υ			CONTEXT P1.3	Conserve aquatic ecosystems		
Υ			CONTEXT P1.4	Conserve habitats for threatened and endangered species		1
3		3	CONTEXT C1.5	Redevelop degraded sites	3 to 6	
4			CONTEXT C1.6	Locate projects within existing developed areas	4	
3			CONTEXT C1.7	Connect to multi-modal transit networks	2 to 3	
3	0	0	2: PRE-DESIGN ASSESSME	NT + PLANNING Possible Poi	nts: 3	J 8 62 7
Υ			PRE-DESIGN P2.1	Use an integrative design process		
Y			PRE-DESIGN P2.2	Conduct a pre-design site assessment		
Y			PRE-DESIGN P2.3	Designate and communicate VSPZs		
3	HORSE CONTRACTOR		PRE-DESIGN C2.4	Engage users and stakeholders	3	
3			5251011 0217		3	nd historic places
12	9	2	3: SITE DESIGN - WATER	Possible Poir	nts: 23	llity, safety, and way
Y		-	WATER P3.1	Manage precipitation on site		,, ,, a
Y			WATER P3.2	Reduce water use for landscape irrigation		
4	2		WATER C3.3	Manage precipitation beyond baseline	4 to 6	
4		2	WATER C3.4	Reduce outdoor water use	4 to 6	
4	1		WATER C3.5	Design functional stormwater features as amenities	4 to 5	n
4	6		WATER C3.6		4 to 6	
	0		WATER CS.0	Restore aquatic ecosystems	4 10 6	lu Lu
	10	11	A. SITE DESIGN SOIL + VE	CETATION Possible Poi	nto. 40	
11	15	14	4: SITE DESIGN - SOIL + VE		nts: 40	ulti-modal transport nental tobacco smok
Υ	15	14	SOIL+VEG P4.1	Create and communicate a soil management plan	nts: 40	
Y Y	15	14	SOIL+VEG P4.1 SOIL+VEG P4.2	Create and communicate a soil management plan Control and manage invasive plants	nts: 40	
Υ	15		SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants		nental tobacco smol
Y		14	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation	4 to 6	nental tobacco smok
Y Y Y	4	6	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation	4 to 6 4	nental tobacco smok nable construction p
Y Y Y	4 3		SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants	4 to 6 4 3 to 6	nental tobacco smok nable construction p n pollutants construction
Y Y Y	4 3 2	6	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities	4 to 6 4 3 to 6 4 to 6	nental tobacco smok nable construction p n pollutants construction ious development
Y Y Y 3 4	4 3	6	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass	4 to 6 4 3 to 6 4 to 6 1 to 6	nable construction problem pollutants construction ious development tion materials from
Y Y Y	4 3 2	6	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.9	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects	4 to 6 4 3 to 6 4 to 6 1 to 6 4	nable construction pollutants construction ious development tion materials from ks, and soil from dis
Y Y Y	4 3 2	6 0	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.9 SOIL+VEG C4.10	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use	4 to 6 4 3 to 6 4 to 6 1 to 6 4	nable construction problem pollutants construction ious development tion materials from
Y Y Y	4 3 2	6	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.9	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects	4 to 6 4 3 to 6 4 to 6 1 to 6 4	nable construction pollutants construction ious development ition materials from ks, and soil from dis
Y Y Y 3 4	4 3 2 6	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4	nable construction proposed pollutants construction ious development tion materials from ks, and soil from distruction
Y Y Y 3 4	4 3 2	6 0	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIA	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4	nable construction pollutants construction ious development tion materials from ks, and soil from distruction
Y Y Y Y 3 4 4 5 Y	4 3 2 6	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIAL MATERIALS P5.1	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire LLS SELECTION Possible Poin Eliminate the use of wood from threatened tree species	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4	nable construction proposed pollutants construction ious development tion materials from ks, and soil from distruction
Y Y Y 3 4	4 3 2 6	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIA MATERIALS P5.1 MATERIALS C5.2	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire ILS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 2 to 4	nable construction problem pollutants construction lous development tion materials from ks, and soil from distruction
Y Y Y Y 3 4 4 5 Y	4 3 2 6	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIA MATERIALS P5.1 MATERIALS C5.2 MATERIALS C5.3	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire LIS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 2 to 4 3 to 4	nable construction problem pollutants construction lous development tion materials from ks, and soil from distruction enance lon of recyclables
Y Y Y Y 3 4 4 5 Y	4 3 2 6	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIA MATERIALS P5.1 MATERIALS C5.2 MATERIALS C5.3 MATERIALS C5.4	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire LIS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly Use salvaged materials and plants	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 2 to 4 3 to 4 3 to 4	nable construction problem pollutants construction ious development tion materials from ks, and soil from distruction enance ion of recyclables
Y Y Y Y 3 4 4 5 Y	4 3 2 6	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIA MATERIALS P5.1 MATERIALS C5.2 MATERIALS C5.3	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire LIS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly Use salvaged materials and plants Use recycled content materials	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 2 to 4 3 to 4	nable construction problem pollutants construction ious development tion materials from ks, and soil from distruction enance ion of recyclables er use apption dscape electricity needs
Y Y Y Y 3 4 4 5 Y	4 3 2 6 2 4 4 4 5	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIAL MATERIALS P5.1 MATERIALS C5.2 MATERIALS C5.3 MATERIALS C5.4 MATERIALS C5.5 MATERIALS C5.6	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire LIS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly Use salvaged materials and plants Use recycled content materials Use regional materials	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 3 to 4 3 to 4 3 to 4 3 to 5	nable construction problem pollutants construction ious development tion materials from ks, and soil from distruction enance ion of recyclables
Y Y Y Y 3 4 4 5 Y	36 36 2 4 4 4 5 5	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIAL MATERIALS C5.2 MATERIALS C5.3 MATERIALS C5.4 MATERIALS C5.5	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire ILS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly Use salvaged materials and plants Use recycled content materials Use regional materials Support responsible extraction of raw materials	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 3 to 4 3 to 4 3 to 4 3 to 4	nable construction problem pollutants construction ious development tion materials from ks, and soil from distruction enance ion of recyclables er use apption dscape electricity needs
Y Y Y Y 3 4 4 5 Y	4 3 2 6 2 4 4 4 5	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIAL MATERIALS P5.1 MATERIALS C5.2 MATERIALS C5.3 MATERIALS C5.4 MATERIALS C5.5 MATERIALS C5.6	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire ILS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly Use salvaged materials and plants Use recycled content materials Use regional materials Support responsible extraction of raw materials Support transparency and safer chemistry	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 3 to 4 3 to 4 3 to 4 3 to 5	nable construction problem pollutants construction ious development tion materials from ks, and soil from dispruction enance ion of recyclables er use mption discape electricity necessity and soil from dispression of the construction from t
Y Y Y Y 3 4 4 5 Y	36 36 2 4 4 4 5 5	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIAL MATERIALS C5.2 MATERIALS C5.3 MATERIALS C5.4 MATERIALS C5.5 MATERIALS C5.6 MATERIALS C5.6	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire ILS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly Use salvaged materials and plants Use recycled content materials Use regional materials Support responsible extraction of raw materials Support transparency and safer chemistry Support sustainability in materials manufacturing	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 3 to 4 3 to 4 3 to 4 3 to 5 1 to 5	nable construction problem pollutants construction ious development tion materials from ks, and soil from dispruction construction cons
Y Y Y Y 3 4 4 5 Y	36 2 6 2 4 4 5 5	6 0 4 4	SOIL+VEG P4.1 SOIL+VEG P4.2 SOIL+VEG P4.3 SOIL+VEG C4.4 SOIL+VEG C4.5 SOIL+VEG C4.6 SOIL+VEG C4.7 SOIL+VEG C4.8 SOIL+VEG C4.9 SOIL+VEG C4.10 SOIL+VEG C4.11 5: SITE DESIGN - MATERIAL MATERIALS C5.2 MATERIALS C5.3 MATERIALS C5.4 MATERIALS C5.5 MATERIALS C5.6 MATERIALS C5.7 MATERIALS C5.7	Create and communicate a soil management plan Control and manage invasive plants Use appropriate plants Conserve healthy soils and appropriate vegetation Conserve special status vegetation Conserve and use native plants Conserve and restore native plant communities Optimize biomass Reduce urban heat island effects Use vegetation to minimize building energy use Reduce the risk of catastrophic wildfire ILS SELECTION Possible Poin Eliminate the use of wood from threatened tree species Maintain on-site structures and paving Design for adaptability and disassembly Use salvaged materials and plants Use recycled content materials Use regional materials Support responsible extraction of raw materials Support transparency and safer chemistry	4 to 6 4 3 to 6 4 to 6 1 to 6 4 1 to 4 4 3 to 4 3 to 4 3 to 4 3 to 5 1 to 5 5 1 to 5	nable construction problem pollutants construction ious development tion materials from ks, and soil from dispruction enance ion of recyclables er use ion of recyclables er use ion dispression di

YES

96

NO

23

SITES Initiative® and the related logo is a trademark owned b

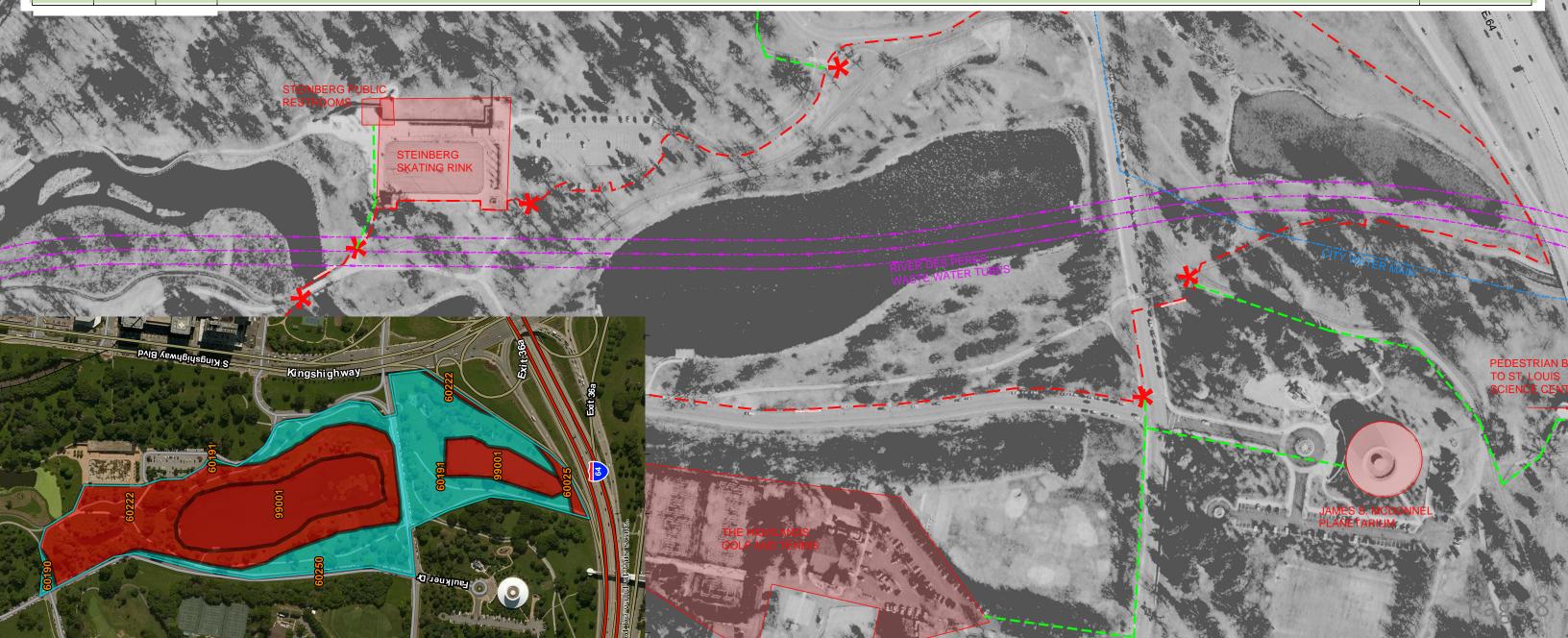
0	0	0	10. INNOVATION OR EXEMPLARY PERFORMANCE	Bonus Points:	9
			INNOVATION C10.1 Innovation or exemplary performance		3 to 9
YES	?	NO			
82	82 96 23 TOTAL ESTIMATED POINTS			Total Possible Points:	200
		$\overline{}$			
KEY				SITES Certification levels	Points
YES	Proje	ct cor	fident points are achievable	CERTIFIED	70
3/	Proje	ct stri	ving to achieve points, not 100% confident	SILVER	85
NO Project is unable to achieve these credit points			GOLD	100	
1				PLATINUM	135
100	100	2018	THE RESIDENCE OF THE PARTY OF T	NOT THE PERSON OF THE PARK	e de l'agres

3 to 4

1 to 2

3 to 4

H	10	0	3	1: SITE CONTEXT	Possible Points:	13
	Υ			CONTEXT P1.1	Limit development on farmland	
	Υ			CONTEXT P1.2	Protect floodplain functions	
*	Υ			CONTEXT P1.3	Conserve aquatic ecosystems	
	Υ			CONTEXT P1.4	Conserve habitats for threatened and endangered species	
	3		3	CONTEXT C1.5	Redevelop degraded sites	3 to 6
	4			CONTEXT C1.6	Locate projects within existing developed areas	4
1	3			CONTEXT C1.7	Connect to multi-modal transit networks	2 to 3





3	0	0	2: PRE-DESIGN ASSESSMEN	NT + PLANNING	Possible Points:	3
Υ			PRE-DESIGN P2.1	Use an integrative design process		
Υ			PRE-DESIGN P2.2	Conduct a pre-design site assessment		
Υ			PRE-DESIGN P2.3	Designate and communicate VSPZs		
3			PRE-DESIGN C2.4	Engage users and stakeholders		3

PROJECT TEAM



Forest Park Forever, St. Louis Parks & Forestry, City of Saint Louis BPS Client/Owner/Developer



Prime
Project Management
Landscape Architecture
Environmental Design
Engagement
Operations + Maintenance



MEP Engineering Geotechnical Surveying



Hydraulic/Water Civil
ADA Accessibility
MSD Coordination
Traffic Coordination



Environmental Art
Educational Graphics
and Interpretives
Signage



Environmental Consulting
Hydrology/Aquatics
Ecology and Biology
Wetland Delination



The Fountain Division of Missouri Machinery and Engineering Company

Water Features
Fountains
Associated MEP

MASTER PLAN RECOMMENDATIONS

The Forest Park Master Plan calls "for the preservation and maintenance of its natural resources, environment and wildlife habitat to ensure a sustainable, ecologically sound natural system" and that "Forest Park's natural beauty, scenic value, and historic and cultural institutions should be the basis for the enjoyment of the park, regardless of future changes in types and levels of park activities and park users." (page 5)

"The open space spine is based upon the park's natural and man-made features and follows the old River Des Peres' water course and line of bluffs in the park" (page 11)

The creation of "a park-wide, linear connected water system as the connective thread that unifies the diverse qualities of the passive open space system" (page 158)

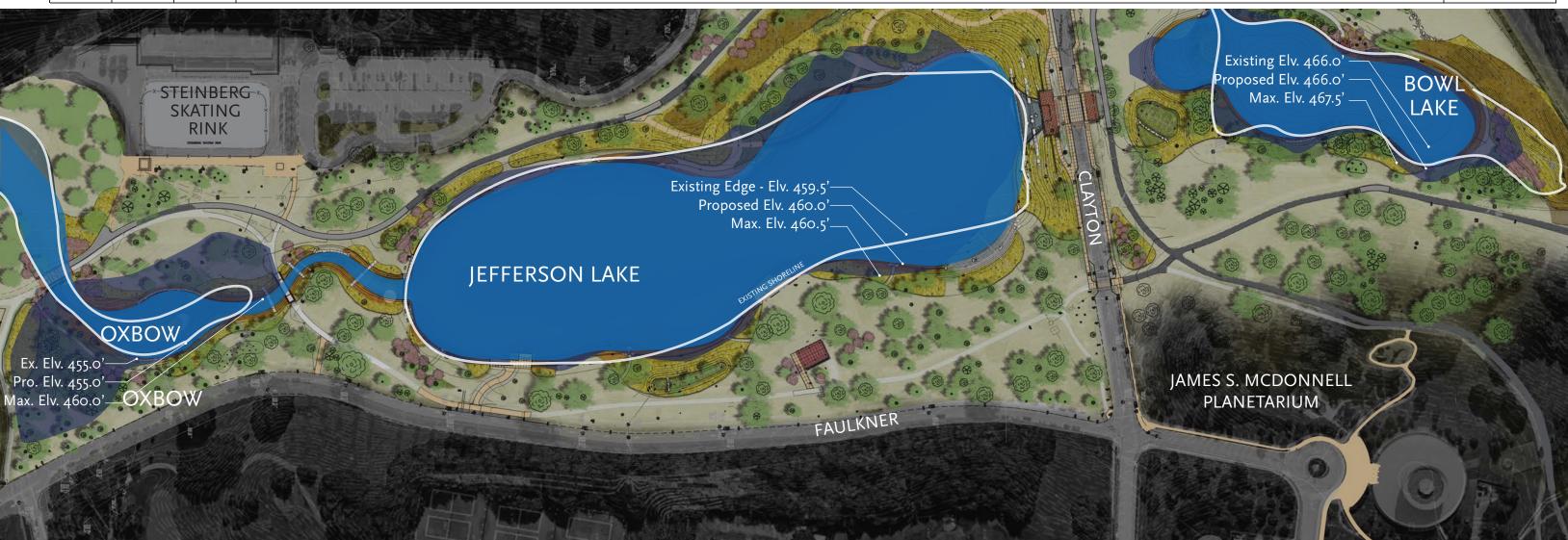
The design recommendations include:

- Water character and spatial features
- Functional requirements
- Water quality controls
- Soil erosion controls
- Shorelines vegetation recommendations confluence areas and filtering marshes
- Check dams and upland water controls structures
- A series of long-term design options and site specific recommendations





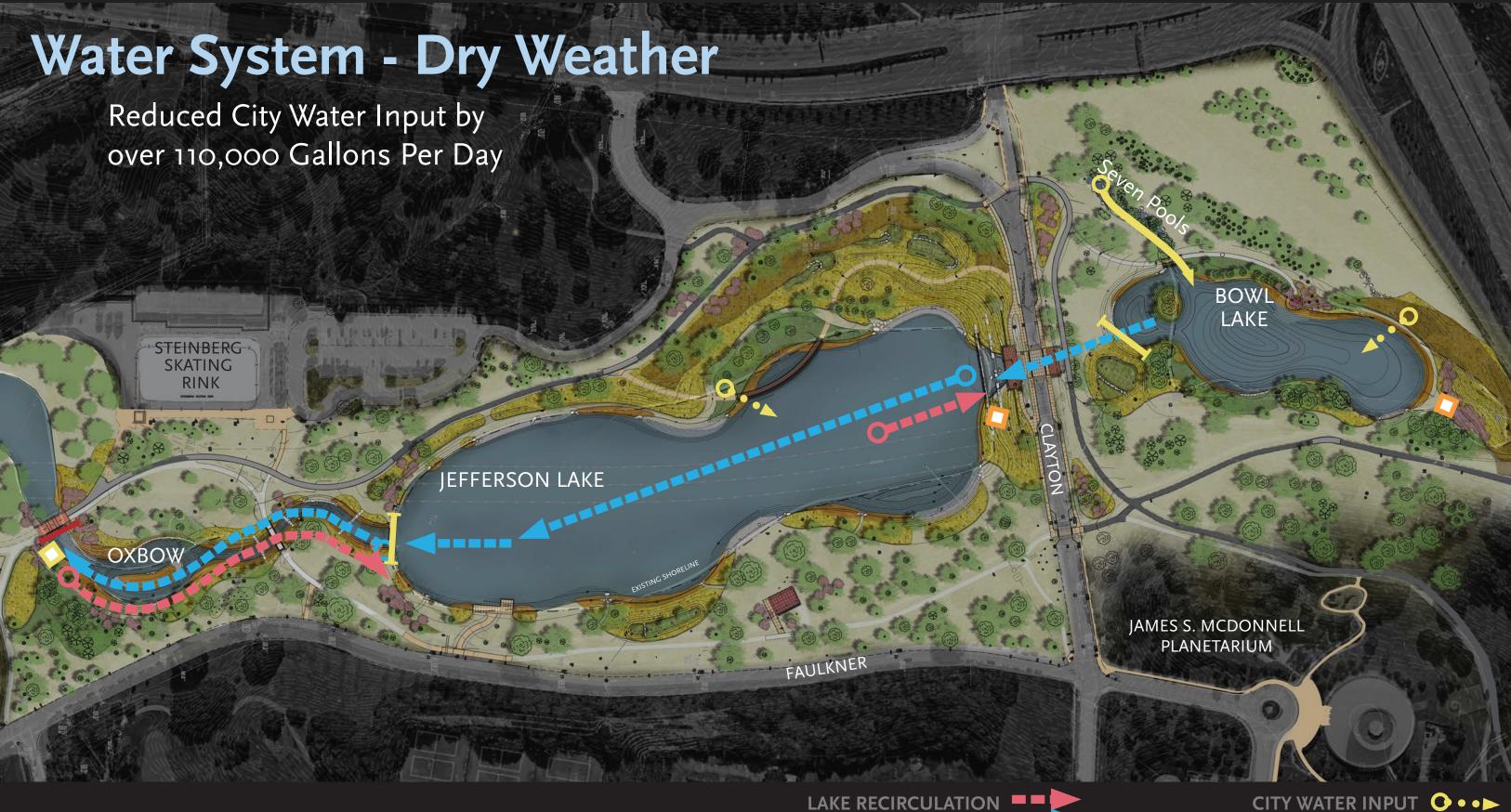
12	9	2	3: SITE DESIGN - WATER	Possible Points:	23
Υ			WATER P3.1	Manage precipitation on site	
Υ			WATER P3.2	Reduce water use for landscape irrigation	
4	2		WATER C3.3	Manage precipitation beyond baseline	4 to 6
4		2	WATER C3.4	Reduce outdoor water use	4 to 6
4	1		WATER C3.5	Design functional stormwater features as amenities	4 to 5
	6		WATER C3.6	Restore aquatic ecosystems	4 to 6



Reduce City Water Input by over 110,000 Gallons Per Day

LAKE EDGE AT FLOOD

EXISTING LAKE EDGE





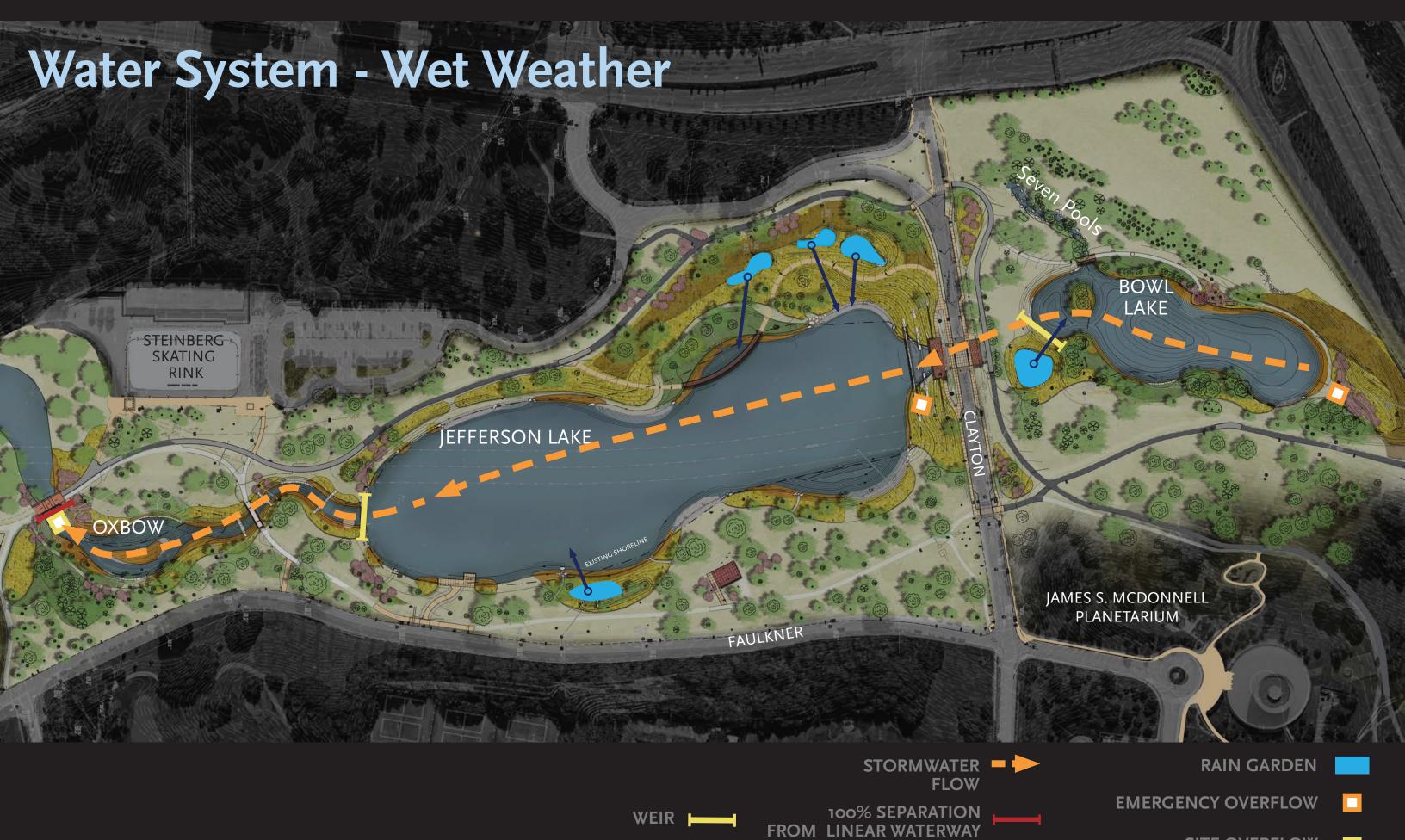


100% SEPARATION FROM LINEAR WATERWAY



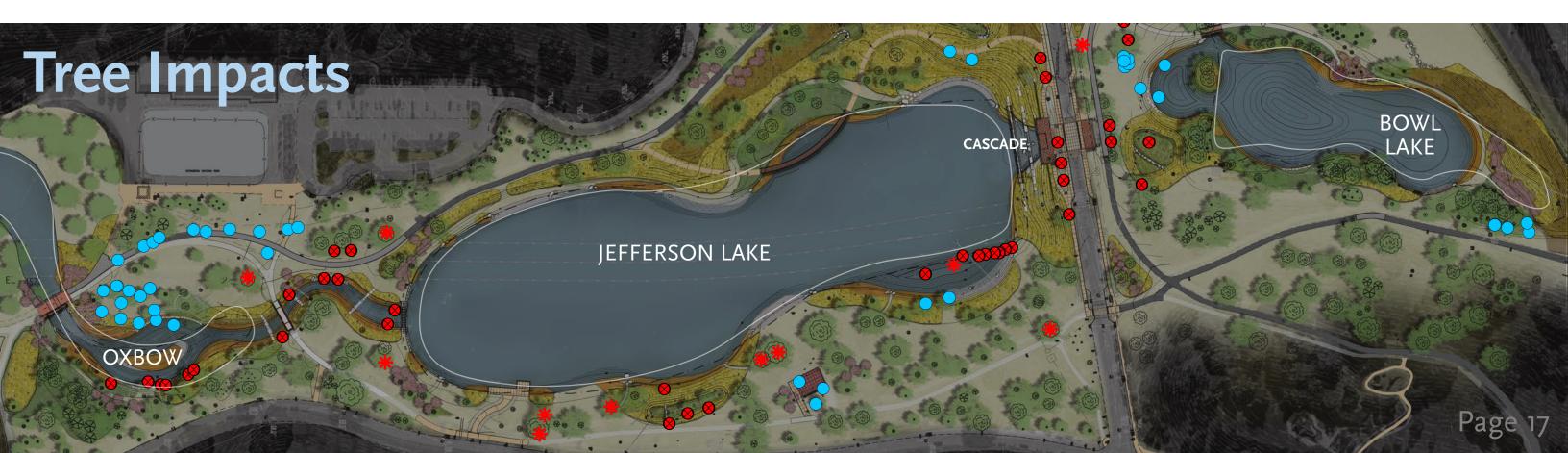
WEIR -

SITE OVERFLOW



SITE OVERFLOW

11	15	14	4: SITE DESIGN - SOIL + V	EGETATION	Possible Points:	40
Υ			SOIL+VEG P4.1	Create and communicate a soil management plan		
Υ			SOIL+VEG P4.2	Control and manage invasive plants		
Υ			SOIL+VEG P4.3	Use appropriate plants		
		6	SOIL+VEG C4.4	Conserve healthy soils and appropriate vegetation		4 to 6
	4		SOIL+VEG C4.5	Conserve special status vegetation		4
3	3	0	SOIL+VEG C4.6	Conserve and use native plants		3 to 6
4	2		SOIL+VEG C4.7	Conserve and restore native plant communities		4 to 6
	6		SOIL+VEG C4.8	Optimize biomass		1 to 6
4			SOIL+VEG C4.9	Reduce urban heat island effects		4
		4	SOIL+VEG C4.10	Use vegetation to minimize building energy use		1 to 4
		4	SOIL+VEG C4.11	Reduce the risk of catastrophic wildfire		4





PROPOSED TREES - 496

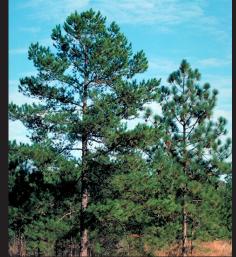
- **CANOPY TREES 221**
- FLOWERING TREES 215
- **EVERGREEN TREES -** 60



Proposed Planting - Trees and Shrubs



Bald Cypress Taxodium distichum



Short Leaf Pine Pinus echinata



Sycamore Platanus occidentalis



Bur Oak Quercus macrocarpa



Sugar Maple Acer saccarum



Swamp White Oak

Quercus bicolor



Hazelnut Corylus americana



Red Bud Cercis canadensis 'Appalacian Red'



Bladdernut Staphylea trifolin



Spicebush Lindera benzoin



American Beautyberry *Callicarpa dichotoma*



Sandbar Willow *Salix exigud*



Cardinal Red-twig Dogwood Cornus sericiea 'Cardinal'



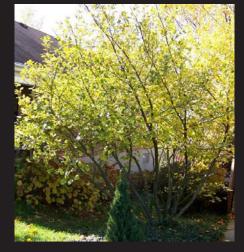
Winterberry Ilex verticillata 'Red Sprite'



Winterberry Ilex verticillata 'Jim Dandy'



Gro-Low Sumac
Rhus aromatica 'Gro-Low'



American Beautyberry

Callicarpa dichotoma



Indigo Bush Amorpha fruticosa

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Grasses and Forbs



Blumt Spike Rush *Eleocharis obtusa*



Soft Rush Iuncus effusus



Bristly Sedge
Carex comosa



Slender Sedge Carex praegracilis



Palm Sedge Carex muskingumensis



Fox Sedge Carex vulpinoidea



Panicum virgatum

Panicum virgatum



Little Bluestem

Andropogon scoparius



Blue Joint Grass Calamagrostis canadensis



Fowl Mana Grass Glyceria striata



Wool Grass
Scirpus cyperinus



Bottlebrush grass *Elymus hystrix*



Indian Grass Sorgastrum nutans



Riverbank Wild Rye Elymus riparius



Common woodread Cinna arundinacea



Hard-stemmed Bulrush
Scirpus acutus



Copper Iris Iris fulva



Blue Flag Iris
Iris virginica



Joe Pye Weed Eupatorium dudium



Marsh Blazing Star Liatris spicata



Ozark Blue Star Amsonia illustris



Black Eyed Susan Rudbeckia hirta



Water Willow Iustica americana





Stiff Coreopsis Coreopsis palmata



Wild Bergamot Monarda fistulosa



Tall Ironweed





Sparganium eurycarpum



Great Bulrush



Marsh Marigold Caltha palustris



Ironweed Vernonia fasciculata



Common Milkweed



Side-flowering Aster



New England Aster Aster novae-angliae



Nodding Wild Onion



Wild Columbine Aquilegia canadensis



Butterfly Weed



Pale Purple Coneflower Echinacea pallida



Queen of the Prairie







Great Blue Lobelia



Mimulus ringens



Foxglove Beard Tongue Penstemon digitalis



Physostegia virginiana



Common Mountain Mint Pycnanthemum virginianum



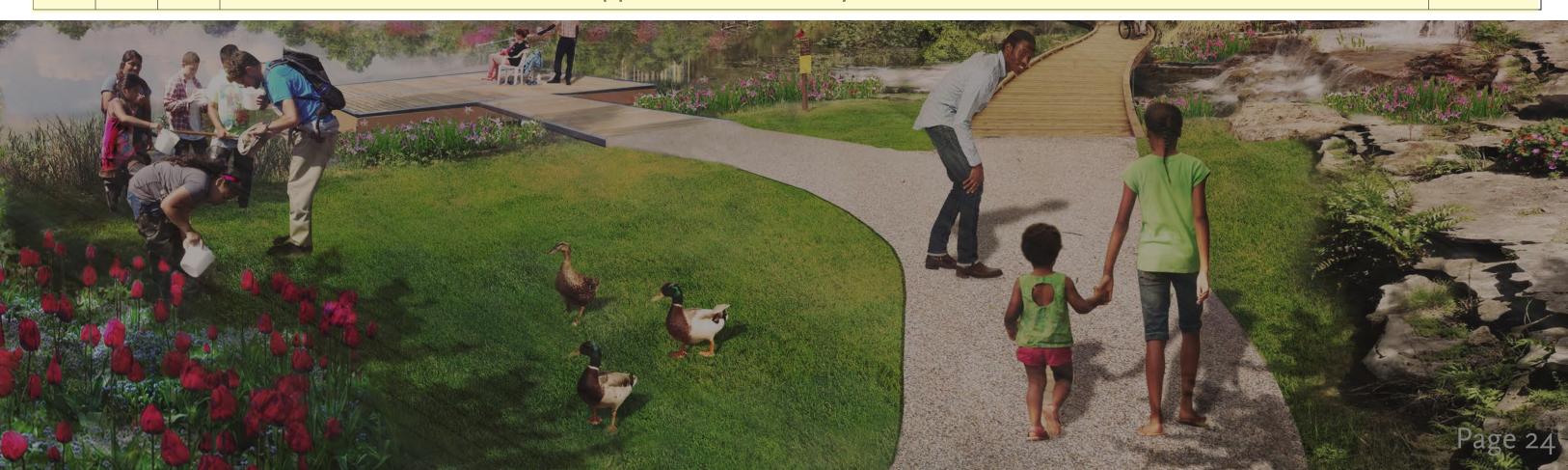
Lizard Tail Saururus cernuus



5	36	0	5: SITE DESIGN - MATERIA	5: SITE DESIGN - MATERIALS SELECTION Possible Points:	
Υ			MATERIALS P5.1	Eliminate the use of wood from threatened tree species	
2	2		MATERIALS C5.2	Maintain on-site structures and paving	2 to 4
	4		MATERIALS C5.3	Design for adaptability and disassembly	3 to 4
	4		MATERIALS C5.4	Use salvaged materials and plants	3 to 4
	4		MATERIALS C5.5	Use recycled content materials	3 to 4
	5		MATERIALS C5.6	Use regional materials	3 to 5
	5		MATERIALS C5.7	Support responsible extraction of raw materials	1 to 5
	5		MATERIALS C5.8	Support transparency and safer chemistry	1 to 5
	5		MATERIALS C5.9	Support sustainability in materials manufacturing	5
3	2		MATERIALS C5.10	Support sustainability in plant production	1 to 5



18	8	4	6: SITE DESIGN - HUMAN	HEALTH + WELL-BEING Possible Poir	nts: 30
3	3 HHWB C6.1		HHWB C6.1	Protect and maintain cultural and historic places	2 to 3
2			HHWB C6.2	Provide optimum site accessibility, safety, and wayfinding	2
2			HHWB C6.3	Promote equitable site use	2
2 HHWB C6.4		HHWB C6.4	Support mental restoration	2	
2			HHWB C6.5	Support physical activity	2
	2		HHWB C6.6	Support social connection	2
		4	HHWB C6.7	Provide on-site food production	3 to 4
4			HHWB C6.8	Reduce light pollution	4
	4		HHWB C6.9	Encourage fuel efficient and multi-modal transportation	4
	2		HHWB C6.10	Minimize exposure to environmental tobacco smoke	1 to 2
3			HHWB C6.11	Support local economy	3





Jefferson Lake Fishing Opportunities





9	9	0	7: CONSTRUCTION	Possible Points:	17
Υ			CONSTRUCTION P7.1	Communicate and verify sustainable construction practices	
Υ			CONSTRUCTION P7.2 Control and retain construction pollutants		
Υ			CONSTRUCTION P7.3	Restore soils disturbed during construction	
	5		CONSTRUCTION C7.4	Restore soils disturbed by previous development	3 to 5
4	1		CONSTRUCTION C7.5	Divert construction and demolition materials from disposal	3 to 4
3	1		CONSTRUCTION C7.6	Divert reusable vegetation, rocks, and soil from disposal	3 to 4
2	2		CONSTRUCTION C7.7	Protect air quality during construction	2 to 4

7	15	0	8. OPERATIONS + MAINTE	8. OPERATIONS + MAINTENANCE Possible Points:	
Υ			O+M P8.1	Plan for sustainable site maintenance	
Υ			O+M P8.2	Provide for storage and collection of recyclables	
3	2		O+M C8.3	Recycle organic matter	3 to 5
4	1		O+M C8.4	Minimize pesticide and fertilizer use	4 to 5
	4		O+M C8.5	Reduce outdoor energy consumption	2 to 4
	4		O+M C8.6	Use renewable sources for landscape electricity needs	3 to 4
	4		O+M C8.7	Protect air quality during landscape maintenance	2 to 4

7	4	0	9. EDUCATION + PERFORM	IANCE MONITORING	Possible Points:	11
4			EDUCATION C9.1	Promote sustainability awareness and education		3 to 4
3			EDUCATION C9.2	Develop and communicate a case study		3
	4		EDUCATION C9.3	Plan to monitor and report site performance		4

0	0	0	10. INNOVATION OR EXEM	MPLARY PERFORMANCE	Bonus Points:	9
			INNOVATION C10.1	Innovation or exemplary performance		3 to 9

Innovative 9 Step Process





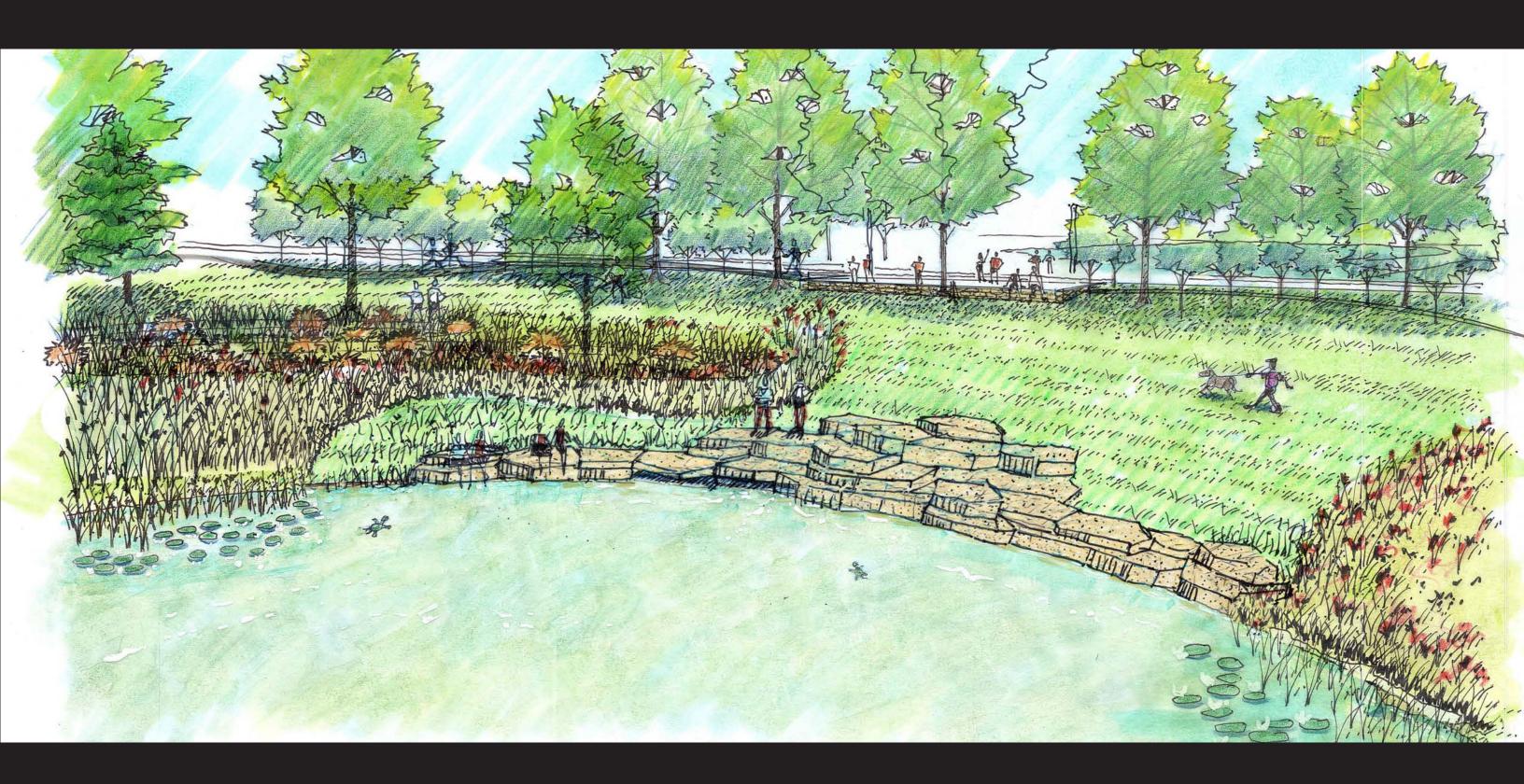
MASTER PLAN RECOMMENDATIONS

Bowl Lake & Seven Pools

- Accentuate plantings and create an earthen berm near south end of Bowl Lake
- Water outfall at north end of Bowl Lake to be piped into Jefferson Lake
- Restore Stone Bridge
- Provide seating area to enjoy and learn about Bowl Lake
- Provide sediment filtration and shoreline plantings
- Incorporate educational elements in cooperation with the Science Center and Central Institute for the Deaf



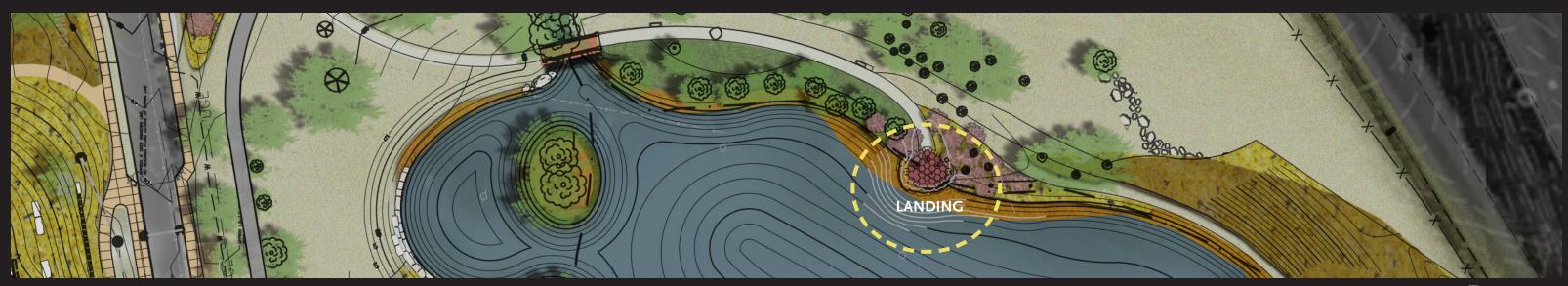
Bowl Lake Edge Near Clayton





Bowl Lake Landing





MASTER PLAN RECOMMENDATIONS

Jefferson Lake

- Extend naturalistic landscape features around Jefferson Lake
- Restore existing paved fishing platforms
- Provide aeration and sediment filtration
- Connect to Bowl Lake and the rest of the water system
- Create a cascading water input at the south end of Jefferson Lake
- Provide aeration and sediment filtration
- Reshape and enlarge Jefferson Lake
- Reduce the amount of City water input
- Provide a connected waterway system

Jefferson Lake HOSPITAL KEY 1 Cascades +459.5 2 Boardwalk & cypress wetland 3 Picnic pavilion 4 Gravel bar 5 New fishing dock 6 Stormwater BMP 7 Weir +459.5 8 Picnic lawn 9 Heels trail 10 Wheels trail

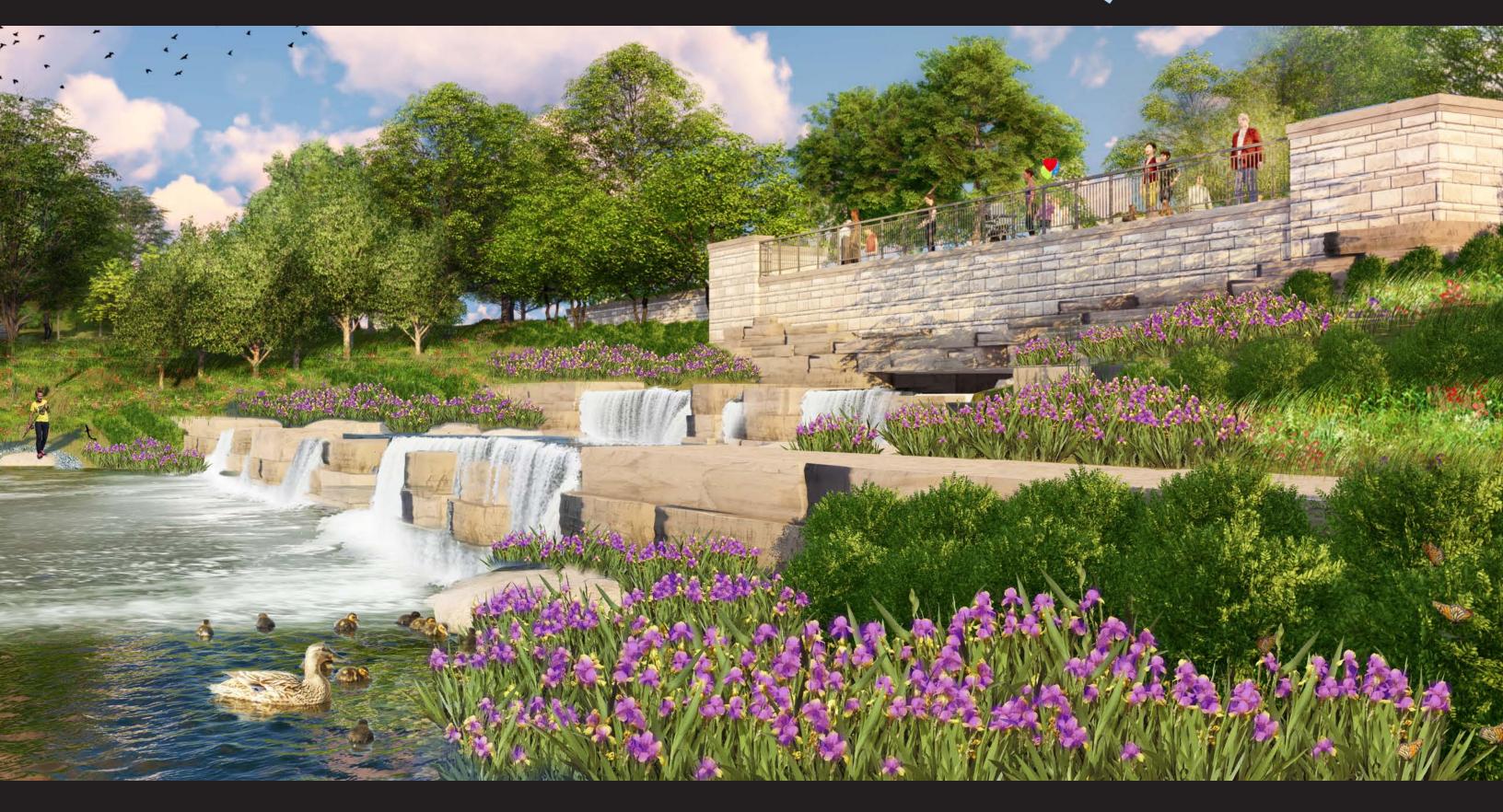
11 Overlook

Lighting

12 Traffic calming improvements

13 Roadside ADA parking

Clayton Cascade

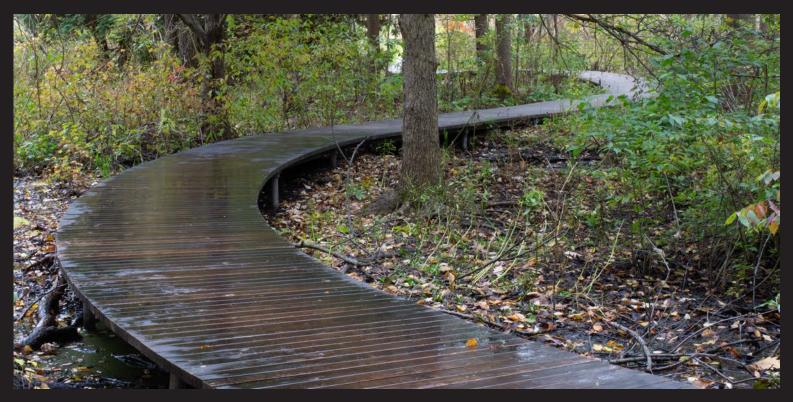


Clayton Overlook

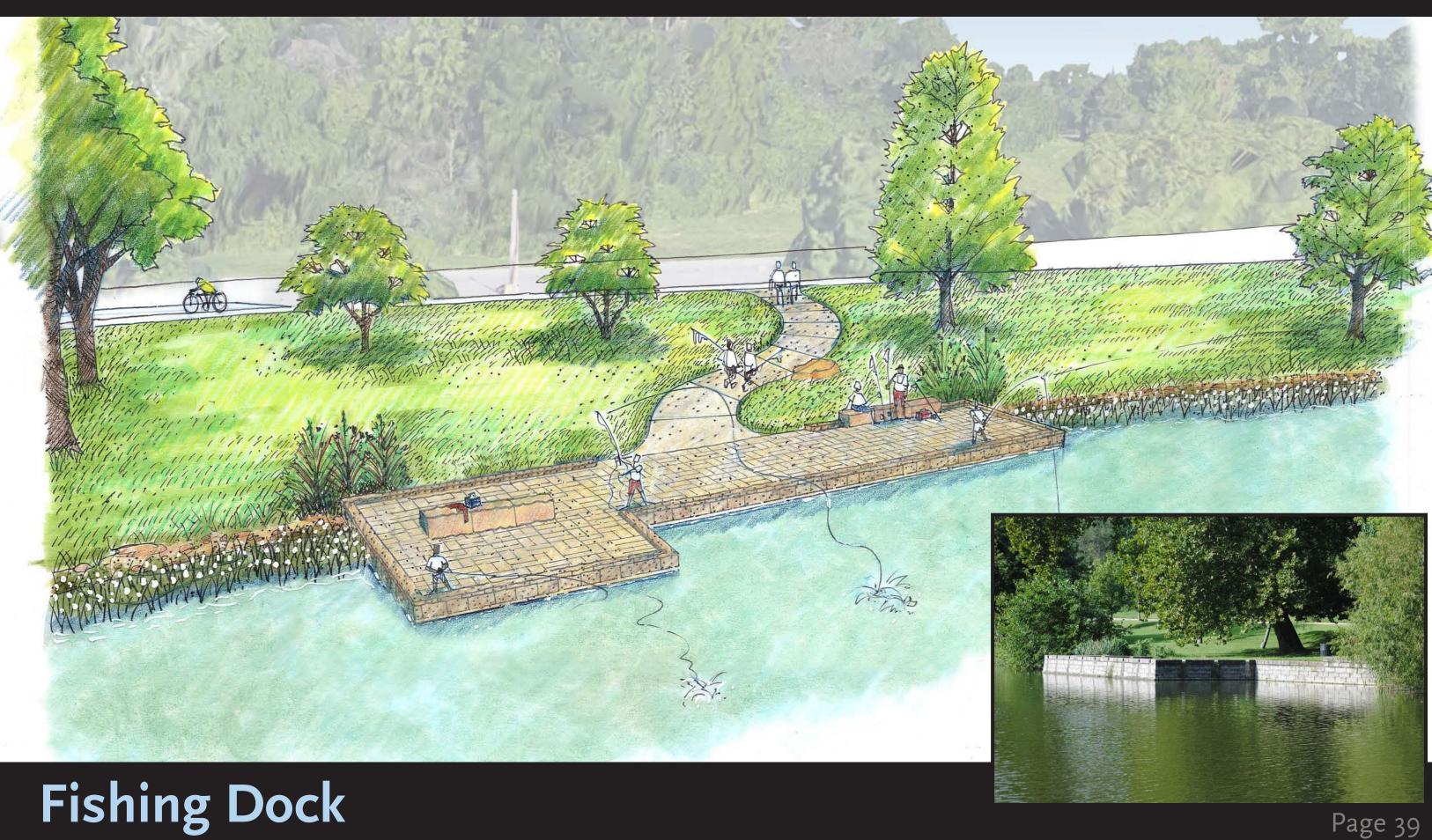


Jefferson Lake Boardwalk



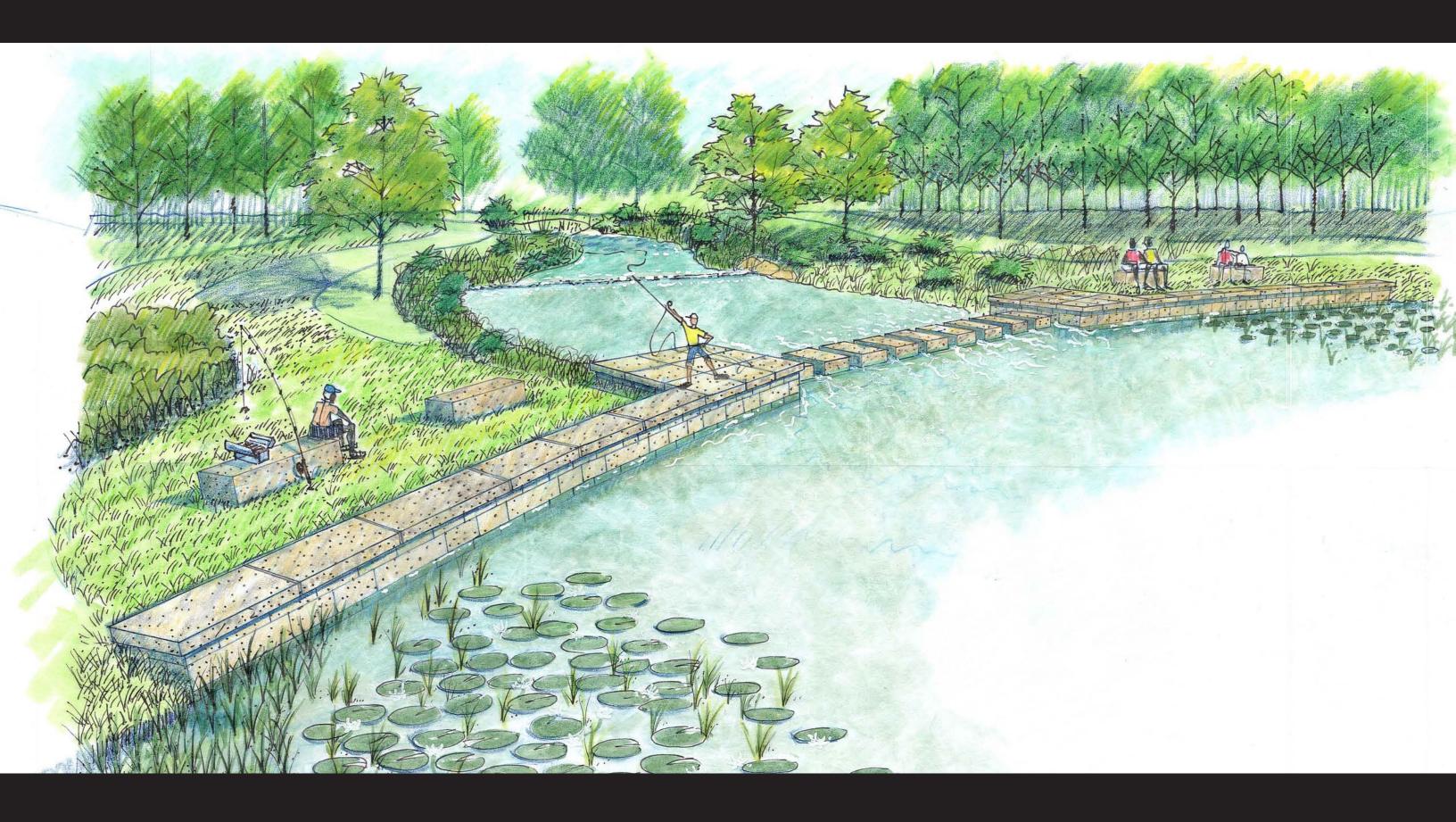








Jefferson Lake Pavilion



The Oxbow **STEINBERG** SKATING RINK KEY 1 Weir (11) 2 Heels trail 6 +458 9 3 Wheels trail 4 Bridge 5 Island 6 Gravel bar 6 7 Sedge meadow 8 Meadow plantings 9 Cascade 8 10 Seating node Picnic lawn FAULKNER Water quality improvements Lighting Page 42

Oxbow Bridge

