

Agenda
Huron-Clinton Metropolitan Authority
Board of Commissioners Meeting
November 10, 2022 – 12:30 p.m.

Administrative Office (via Zoom for the public)

<https://us02web.zoom.us/j/88520055982?pwd=cnUzK0FpM3Q1NmhOMHYrb0tKUFdLQT09>

Meeting ID: 885 2005 5982 / **Passcode:** HCMA2022

Dial by your location: +1 929.205.6099 (New York) / +1 301.715.8592 (Washington, D.C)

Please note – new items designated in “Blue”

1. Call to Order
2. Chairperson’s Statement
3. Public Participation
4. Approval – September 8, 2022 Work Session and Regular Minutes
5. Approval – November 10, 2022 Full Agenda

Consent Agenda

6. **Approval**
 - a. Approval – September/October 2022 Financial Statements
 - b. Approval – September/October 2022 Appropriation Adjustments **pg. 1**
 - c. Report – Capital Project Fund Update **pg. 5**
 - d. Report – Major Maintenance Update **pg. 11**
 - e. Affirmation – Permitted Facilities Agreement, Lower Huron **pg. 15**
 - f. Affirmation – Change Order, Accessible Launch, Lake St. Clair **pg. 33**
 - g. Bids – Roof Replacement Golf Starter Building, Huron Meadows **pg. 35**
 - h. Approval – 2023 Fees and Charges **pg. 37**
 - i. Approval – 2023 Employee Recognition Dinner Subsidy **pg. 59**
 - j. Approval – 2023 Board Meeting Schedule **pg. 60**
 - k. Report – October Natural Resources Update **pg. 62**
 - l. Report – October Planning and Development Update **pg. 69**
 - m. Report – October Interpretive Services Update **pg. 88**
 - n. Report – October DEI Update **pg. 94**
 - o. Report – October Marketing Update **pg. 97**
 - p. Approval – Canoe/Kayak Livery Concessionaire Services **pg. 101**
 - q. Purchases
 1. Report – Purchases over \$10,000 **pg. 102**
 2. Total Spend and Vendor Location **pg. 103**
 3. Trash Compactor, Lower Huron **pg. 105**
 4. Backhoe, Stony Creek **pg. 106**
 5. Utility Vehicles and Tractors, various locations **pg. 107**

Regular Agenda

7. Presentation – Dr. Haley Murphy, Detroit Zoological Society **pg. 108**
8. Presentation – Preliminary 2023 Budget **pg. 109**

Regular Agenda (con't)

9. Reports

A. Administrative Office

1. Report – National Association for Interpretation (NAI) Award [pg. 122](#)
2. Report – 2023 Events/Programs Presentation [pg. 124](#)
3. Report – Draft Strategic Plan [pg. 125](#)
4. Approval – Storm Water Management Consultant [pg. 130](#)
5. Approval – Trails Connection Feasibility Study [pg. 132](#)
6. Approval – Sale of Wolcott Liquor License [pg. 133](#)
7. Approval – Cooperative Purchase of Toro Grounds Equipment [pg. 134](#)
8. Approval – Golf Carts Purchases [pg. 135](#)
9. Approval – Health Insurance Renewal [pg. 136](#)
10. Approval – HR Succession Plan [pg. 138](#)

B. Financial Department

1. Report – Monthly Financial Review [pg. 139](#)

C. Planning and Development

1. Approval – Master Plan Updates (Delhi, Dexter-Huron, Huron Meadows, Indian Springs, Willow, Oakwoods, Lake Erie) [pg. 152](#)
2. Approval/Resolution – Off-Leash Dog Area Project (LWCF Grant), Lower Huron [pg. 284](#)
3. Approval/Resolution – Walnut Grove Campground Project (MNRTF Grant), Lower Huron [pg. 286](#)
4. Approval/Resolution – Great Wave Pool Grant Application (MDNR Spark Grant), Lake Erie [pg. 288](#)
5. Approval/Resolution – Engineering for High Water Grant (EGLE), North Marina, Lake St. Clair [pg. 290](#)
6. Approval/Resolution – Greening the Parking Lot Grant (EGLE), Lake St. Clair [pg. 292](#)

D. Engineering Department

1. Bids – Golf Course Irrigation Repair/Replacement Design, Stony Creek, Indian Springs, Willow [pg. 294](#)
2. Bids – Wave Pool Plaza Concrete Repairs, Lake Erie [pg. 323](#)
3. Approval – Washington Township Water Main Easements, Stony Creek [pg. 325](#)

E. Natural Resources

1. Approval – Shoreline Restoration Project Phase 2, Lake Erie [pg. 356](#)

F. Departmental Updates

1. Report – November Natural Resources Update [pg. 367](#)
2. Report – November Planning and Development Update [pg. 374](#)
3. Report – November Interpretive Services Update [pg. 393](#)
4. Report – November DEI Update [pg. 401](#)
5. Report – November Marketing Update [pg. 405](#)

10. Leadership Update

11. Other Business

12. Public Participation

13. Commissioner Comments

14. Motion to Adjourn

Pension Committee and Retiree Health Care Trust meeting
Thursday, Nov. 10, 2022 – 11:00 a.m.
Administrative Office – Board Room

The next regular Metroparks Board meeting
Thursday, Dec. 8, 2022 – 12:30 p.m.
Administrative Office Board Room



To: Board of Commissioners
From: Shedreka Miller, Chief of Finance
Subject: Approval – September / October Appropriation Amendments
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the October 2022 Appropriation Amendments as recommended by Chief of Finance Shedreka Miller and staff.

Background: The Metroparks ERP system provides a work-flow process to facilitate departmental budget management. Requested transfers are initiated by Department staff and routed to the appropriate Department Head/District Superintendent for review and approval. Finance provides a final review of the approved requests to verify that they do not negatively impact Fund Balance.

For September, \$2,047,064 was transferred between general fund accounts. As a result, there was a \$208,691 use of fund balance. However, it is expected that the year-end impact to the fund balance will be zero due to cost savings incurred throughout the year. Transfers were also processed within the capital project fund totaling \$153,511. Tax adjustments resulted in a net decrease in fund balance of \$1,837.

For October, \$174,515 was transferred between general fund accounts. Transfers were also processed within the capital project fund totaling \$46,056. Tax adjustments resulted in a net increase in fund balance of \$4,818.

The result of these changes can be seen by Accounting Function and Location in the attached chart.

Attachment: September and October Appropriation Adjustments

Huron-Clinton Metropolitan Authority
September 2022 Appropriation Transfer Summary

Location	Expense Increase	Expense Decrease/ Revenue Increase	Difference
General Fund Transfers			
Capital			
Administrative Office	81,473	-	81,473
Kensington	-	5,498	(5,498)
Stony Creek	-	413	(413)
Lake Erie	-	307	(307)
Wolcott	6,218	-	6,218
Total	\$ 87,691	\$ 6,218	\$ 81,473
Major Maintenance			
Administrative Office	-	27,239	(27,239)
Lake St. Clair	19,145	-	19,145
Kensington	2,581	-	2,581
Stony Creek	177	-	177
Wolcott	2,168	-	2,168
Huron Meadows	3,169	-	3,169
Total	\$ 27,239	\$ 27,239	\$ -
Operations			
Administrative Office	6,945	350,000	(343,055)
Lake St. Clair	321,779	228,092	93,688
Kensington	240,417	66,290	174,127
Lower Huron/Willow	425,193	262,928	162,265
Hudson Mills	112,842	43,222	69,620
Stony Creek	321,163	303,169	17,994
Lake Erie	223,880	194,273	29,607
Wolcott	83,357	72,392	10,965
Indian Springs	63,761	60,180	3,581
Huron Meadows	37,862	19,506	18,356
Total	\$ 1,837,200	\$ 1,600,052	\$ 237,148
Administrative	94,934	204,864	(109,930)
Total	\$ 94,934	\$ 204,864	\$ (109,930)
Total General Fund Transfers	\$ 2,047,064	\$ 1,838,373	\$ 208,691

**Huron-Clinton Metropolitan Authority
September 2022 Appropriation Transfer Summary**

Location	Expense Increase	Expense Decrease/ Revenue Increase	Difference
Capital Project Fund Transfers			
Administrative	81,473	153,511	(72,038)
Lake St. Clair	21,183	-	21,183
Kensington	5,594	-	5,594
Lower Huron/Willow/Oakwoods	18,991	-	18,991
Hudson Mills	3,288	-	3,288
Stony Creek	18,832	-	18,832
Lake Erie	4,151	-	4,151
Total	\$ 153,511	\$ 153,511	\$ (0)

Tax Year	Revenue Decrease	Revenue Increase	Net
Tax Adjustment			
Current	8,188	-	8,188
Prior	-	6,351	(6,351)
Total	\$ 8,188	\$ 6,351	\$ 1,837

Huron-Clinton Metropolitan Authority
October 2022 Appropriation Transfer Summary

Location	Expense Increase	Expense Decrease/ Revenue Increase	Difference
General Fund Transfers			
Capital			
Lake Erie	-	2,654	(2,654)
Wolcott	2,654	-	2,654
Total \$	2,654	\$ 2,654	\$ -
Major Maintenance			
Administrative Office	-	9,486	(9,486)
Lake St. Clair	2,616	-	2,616
Lower Huron/Willow	1,137	-	1,137
Hudson Mills	1,508	-	1,508
Wolcott	3,576	-	3,576
Huron Meadows	649	-	649
Total \$	9,486	\$ 9,486	\$ -
Operations			
Lake St. Clair	80,495	80,495	-
Kensington	7,525	10,070	(2,546)
Lower Huron/Willow	32,228	12,168	20,060
Hudson Mills	1,796	-	1,796
Stony Creek	20,675	29,384	(8,709)
Lake Erie	1,581	1,000	581
Indian Springs	800	800	-
Huron Meadows	2,319	-	2,319
Total \$	147,418	\$ 133,918	\$ 13,500
Adminstrative	14,957	28,457	(13,500)
Total \$	14,957	\$ 28,457	\$ (13,500)
Total General Fund Transfers	\$ 174,515	\$ 174,515	\$ -
Capital Project Fund Transfers			
Administrative	-	46,056	(46,056)
Lake St. Clair	12,045	-	12,045
Lower Huron/Willow/Oakwoods	10,441	-	10,441
Hudson Mills	3,163	-	3,163
Stony Creek	15,159	-	15,159
Lake Erie	5,247	-	5,247
Total \$	46,056	\$ 46,056	\$ -
Tax Year	Revenue Decrease	Revenue Increase	Net
Tax Adjustment			
Current	-	313	(313)
Prior	-	4,505	(4,505)
Total \$	-	\$ 4,818	\$ (4,818)



To: Board of Commissioners
From: Shedreka Miller, Chief of Finance
Subject: Report – Monthly Capital Project Fund
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the Capital Project Fund report as submitted by Chief of Finance Shedreka Miller and staff.

Background: In 2018, the Board of Commissioners approved the creation of a capital project fund. To improve the information provided on specific capital improvement projects Finance is working on developing a monthly performance report.

The following columns of data are provided by project:

- Life-To-Date Total Project Budget
- Year-To-Date Total Project Expenditures
- Life-To-Date Total Project Expenditures
- Current Project Encumbrances (Funds committed through the purchase order process)
- Balance (Life-To-Date Budget less Life-To-Date Expenditures and Current Encumbrances)

This information has now been augmented to include the original budget. In addition, a new page has been added which provides a more detailed description of the project as well as the current status of the project and the current estimate of what year the project will be completed. It is anticipated that this additional information will allow the Board of Commissioners as well as the general public to stay up-to-date on the capital project work underway throughout the Metroparks.

Expenditures during October 2022 were primarily related to payments for contracted work. The following projects had significant expenses during the month:

- Lake St Clair – Entrance/Office Road Reconstruction
- Kensington – West Boat Launch Accessible Kayak Launch
- Stony Creek – Boat Launch Building Redevelopment

Attachment: October 2022 Capital Project Fund Update

October Capital Project Fund Report - Project Summary

Location	Original Project Title	Project Description	Amended Budget	Available Grant Funding	Project Status	Estimated Completion Yr
Lake St Clair	Black Creek Marsh Wetland Filtration Enhancement	A natural shoreline project which will remove rip-rap, regrade slope and install native vegetation which will improved filtration of water entering the marsh and improve habitat as well as reducing erosion.	301,066	160,000	To finish in Fall	2022
Lake St Clair	Accessible Kayak Launch & Power Installation		56,151		In Design	2023
Lake St Clair	Backup Internet Fiber Installation	Comcast installation of underground fiber network	40,000		Complete	2022
Lake St Clair	Electrical Grid Replacement	Assessments, cost estimates, and project development for future projects to address electrical power infrastructure upgrades and repairs.	807,434		Currently finalizing alignment for phase I	2026
Lake St Clair	Beach Restoration	Multi-year EGLE grant project through 2023. Plantings and bird deterrents installation to improve water quality funding includes follow up water quality monitoring.	481,014	292,167	In Construction	2023
Lake St Clair	Michigan Coastal Management Program-Accessible Launch	Accessible Kayak Launch - grant application has been made to Michigan Coastal Management Program.	564,276	196,425	In Design	2023
Lake St Clair	Entrance/Office Road Reconstruction	Reconstruction of deteriorating Entrance Road, Office road	1,417,865		In Construction	2023
Lake St Clair	Wood Bridge near Interpretive Center Replacement	Replace 70'-long wood structure damaged over past 3 years due to high water. Requires permits.	62,413		Budgeted	2023
Lake St Clair	Upgrade 4th Tollbooth	Purchase new portable booth. Directional bore power to unit for RecTrac system.	27,538		Project Starting	2022
Kensington	West Boat Launch - Accessible Kayak Launch	Michigan Natural Resources Trust Fund grant funded project to develop an accessible kayak launch and associated site amenities at West Boat Launch.	438,487	154,000	In Construction	2022
Kensington	Accessible Path from N Hickory Shelter to Restroom	Pave 580 lf path from shelter to restrooms per the ADA Transition Plan.	66,273		Budgeted	2023
Kensington	Accessible Path from S Martindale Shelter to Vault & Beach	Pave 950 lf path from shelter to restrooms and beach area per the ADA Transition Plan. Include concrete work needed for access mat across beach sand.	85,954		Budgeted	2023
Kensington	Accessible Path from N Martindale Shelter to Beach	Pave 250 lf path section along parking lot to connect shelter with beach area, food bar, and bathhouse.	30,354		Budgeted	2023
Dexter	Delhi Launch & Take Out Renovations	Renovation of launch area at Delhi.	306,000	153,000	Budgeted	2023
Lower Huron	North Fishing Site Redevelopment	Land and Water Conservation Fund grant funded project to improve accessibility and site amenities at the Walnut Grove Campground.	297,399	144,400	Contruccion Completed-Awaiting Grant money	2022
Lower Huron	Backup Internet Fiber Installation	Comcast installation of underground fiber network	185,362		In Construction	2022
Lower Huron	Toll Booth Replacement and Paving	Toll Booth replacement on existing pedestal at Oakwoods and Lower Huron - Beemis Road entrance.	32,170		In Construction	2022
Lower Huron	Turtle Cove Crosswalk Path	Construction of a path and crosswalk from the Foxwoods parking lot to Turtle Cove.	102,770		Completed	2022
Lower Huron	Iron Bell Trail Project	Michigan Natural Resources Trust Fund grant funded project to extend the Iron Bell trail from its current terminus to the north park entrance (Huron River Drive).	845,016	488,742	In Construction	2022
Lower Huron	Walnut Grove Campground Improvements	Land and Water Conservation Fund grant funded project to improve accessibility and site amenities at the Walnut Grove Campground.	784,600	450,000	Awaiting Grant Agreement	2023

October Capital Project Fund Report - Project Summary

Location	Original Project Title	Project Description	Amended Budget	Available Grant Funding	Project Status	Estimated Completion Yr
Lower Huron	Off Leash Dog Area Development	Land and Water Conservation Fund grant funded project to develop a new fenced in area for off leash dog activities	330,800	165,400	Awaiting Grant Agreement	2023
Lower Huron	New Slide Structure at Turtle Cove	Install new slide at Turtle Cover water park.	1,636,911		Project Started	2023
Lower Huron	Accessible Path from Hawthorne Glade N Shelter to Turtle Cove	Pave 1,285 lf path from shelter to restrooms and Turtle Cove area per the ADA Transition Plan.	110,813		Budgeted	2023
Lower Huron	Accessible Path from Tulip Tree Shelter to Restrooms	Pave 330 lf path from shelter to restrooms per the ADA Transition Plan; this area is not included in the Walnut Grove campground LWCF grant project.	31,838		Budgeted	2023
Hudson Mills	Backup Internet Fiber Installation	Comcast installation of underground fiber network	7,994		Completed	2022
Hudson Mills	Rapids View area Development	Michigan Natural Resources Trust Fund grant funded project to develop an accessible kayak launch and associated site amenities at Rapids View	680,121	226,900	In Construction	2022
Hudson Mills	Picnic Area Development at Canoe Launch	Michigan Natural Resources Trust Fund grant funded project to develop an accessible kayak launch and associated site amenities at Dexter-Huron	404,915	192,700	Awaiting Grant Agreement	2023
Hudson Mills	UST Removal	Removal of underground storage tank at Golf Course	39,131		Near Completion	2022
Hudson Mills	Replace Vault Toilet with CXT	Replace curren vault toilet with CXT .	216,427		Budgeted	2022
Hudson Mills	Accessible Access to Activity Center Shelter	Pave 320 lf path from bike trail to AC shelter to make it ADA compliant. Include accessible tables/grill & concrete pad as part of project.	40,212		Budgeted	2023
Hudson Mills	Convert Gas Storage Tanks for Above Ground	Conversion of gas storage tanks	127,273		In Design	2022
Stony Creek	Shelden Trails Redevelopment	Redevelopment of the multi-use natural surface Shelden Trails system	863,845	50,000	In Construction	2022
Stony Creek	Boat Launch Building Redevelopment	Construction of a new restroom and shade structure at the boat lauch facility	2,072,905	50,000	In Construction	2022
Stony Creek	Development of Off Leash Dog Area	Michigan Natural Resources Trust Fund grant funded project to develop a new fenced in area for off leash dog activities	271,286		Completed	2022
Stony Creek	Backup Internet Fiber Installation	Comcast installation of underground fiber network	80,000		Substantially Completed	2022
Stony Creek	26 Mile Rd. Connector - Bike Path	Transportation Alternatives Program grant (obtained by Macomb County) funded project to connect into the park from 26 Mile Road	43,366		In Construction	2022
Stony Creek	Golf Course Pumphouse & Irrigation System Replacement	Replacement of intakes, pumps, controls, piping and heads. One year of design before construction.	1,000,000		In Design	2023
Stony Creek	Accessible Path from Winter Cove N to Winter Cove S Shelters	Pave 625 lf in asphalt paths connecting both Wintercove shelters to lot, restroom and playground areas per the ADA Transition Plan.	176,520		Budgeted	2023
Stony Creek	Accessible Path from W Branch North Shelter to Restroom	Pave 310 lf asphalt paths from shelter to restroom per the ADA Transition Plan.	64,197		Completed	2023
Stony Creek	Develop Shelter in former Banquet Tent Area	Replace Banquet Tent with shelter.	500,000		Budgeted	2023
Stony Creek	Seawall Repair & Washington Twp Fire Dept Boat Pier	Repair the seawall at the Boat Launch / update parking lot lighting. Incorporate pier for Washington Twp. FD & Metroparks police boat.	573,312		Budgeted	2023

October Capital Project Fund Report - Project Summary

Location	Original Project Title	Project Description	Amended Budget	Available Grant Funding	Project Status	Estimated Completion Yr
Stony Creek	Reflection Nature Trail Improvements	Removal and realignment of 1/2 mile of 6' wide asphalt path, 284 lf of 8' wide boardwalk, replacement of three existing footbridges, a 400sf overlook structure and pond dipping platform.	931,200	465,600	Budgeted	2023
Stony Creek	Hike Bike Path & Bridge Replacement btwn Winter Cove & Mt Vernon	Replace with precast bridge between Wintercove and Mt. Vernon, original structure (15' x 40) is failing, uneven decking and entry, exit points. Leading to injuries from cyclists and rollerbladers. It is no longer safe to plow during the winter. Requires permits.	80,496		Budgeted	2023
Willow	Park Office Replacement	Construction of a new park office building at the north end of Willow Metropark to replace the sub-standard legacy facility at Lower Huron Metroparks.	2,779,742		Substantially Completed	2022
Willow	Backup Internet Fiber Installation	Comcast installation of underground fiber network	0		In Review	2022
Willow	Big Bend Shoreline Protection	National Fish and Wildlife Foundation SE MI Resilience Fund grant project to mitigate Huron River streambank erosion and improve habitat.	522,530	250,000	Design Started	2023
Willow	Washago Pond Restoration	Removal of that dam structure, sheet pile walls and docks and subsequent site restoration.	905,621		Budgeted	2023
Willow	Accessible Path from Fox Meadows N & S Shelters to Pool	Pave 650 lf asphalt paths connecting both Fox Meadows shelters to the restroom and to the pool activity area/playground per the ADA Transition Plan.	65,000		Budgeted	2023
Willow	Willow Park Office Communicaiton Conduit	Connectivity to new park office	33,808		In Construction	2022
Oakwoods	Backup Internet Fiber Installation	Comcast installation of underground fiber network	0		In Review	2022
Oakwoods	Accessible Nature Trail Development	Land and Water Conservation Fund grant funded project to develop an accessible nature trail and make associated site improvements	251,142	124,000	Grant Received, In Design	2023
Lake Erie	Shoreline and Fish Habitat Restoration	This shoreline project will regrade the existing shoreline, install native vegetation as well as creating near-shore shoals. Channels and pools will also be created in the nearby marsh. This work will improve fish spawning habitat.	1,638,253	1,404,353	In Construction	2023
Lake Erie	Boat Launch Fish Cleaning Station	Installation of an onsite fish cleaning station at the boat launch facility	45,000	122,500	Budgeted	2023
Lake Erie	Accessible Kayak Launch with Area Development	Land and Water Conservation Fund grant funded project to develop an accessible kayak launch and associated site amenities at the Boat Launch	245,406		In Design	2023
Lake Erie	Cherry Island Nature Trail Improvements	Trail Improvements including aggregate trail from parking lot to new trail head and accessible amenities.	871,800	600,000	Grant Received, In Design	2023
Lake Erie	Cove Point Vault Toilet Replacements	Cove Point vaults -removal/replacement of 2 vaults with CXTs.	143,725		Budgeted	2023
Lake Erie	Sewer Line Replacement at Boat Launch Building	Install new sewer line to service Boat Launch building, including pump upgrades and controls.	156,930		Budgeted	2023
Lake Erie	Protecting Lake Erie Marsh with Green Infrastructure	Grant Project to protect marshland	361	0		
Wolcott	Farm to Mill Trail Connector	Develpment of a connector trail from the Farm to the Mill. Multi year project design and construction	1,000,958		Budgeted	2024
Indian Springs	Backup Internet Fiber Installation	Comcast installation of underground fiber network	7,758		Completed	2022
Huron Meadows	Backup Internet Fiber Installation	Comcast installation of underground fiber network	0		In Review	2022
			\$ 25,883,737	\$ 5,690,187		

**Capital Project Status Report
As of 10/31/2022**

Location	Project Title	Original Budget	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Available Grant Funding
Lake St Clair	Black Creek Marsh Wetland Filtration Enhancement	253,000	301,066	1,144	98,760	0	202,306	160,000
Lake St Clair	Accessible Kayak Launch & Power Installation	50,000	56,151	0	0	0	56,151	
Lake St Clair	Backup Internet Fiber Installation	40,000	40,000	0	0	30,815	9,185	
Lake St Clair	Electrical Grid Replacement	802,216	807,434	21,325	80,074	37,119	690,241	
Lake St Clair	Beach Restoration	400,000	481,014	72,545	375,408	93,677	11,929	292,167
Lake St Clair	Michigan Coastal Management Program-Accessible Launch	392,850	564,276	429,667	434,689	193,483	(63,896)	196,425
Lake St Clair	Entrance/Office Road Reconstruction	1,100,000	1,417,865	930,199	930,199	505,008	(17,342)	
Lake St Clair	Wood Bridge near Interpretive Center Replacement	62,000	62,413	413	413	0	62,000	
Lake St Clair	Upgrade 4th Tollbooth	27,500	27,538	38	38	17,295	10,205	
Kensington	West Boat Launch - Accessible Kayak Launch	308,000	438,487	428,286	444,743	0	(6,256)	154,000
Kensington	Accessible Path from N Hickory Shelter to Restroom	65,000	66,273	1,273	1,273	0	65,000	
Kensington	Accessible Path from S Martindale Shelter to Vault & Beach	85,000	85,954	954	954	0	85,000	
Kensington	Accessible Path from N Martindale Shelter to Beach	30,000	30,354	354	354	0	30,000	
Dexter	Delhi Launch & Take Out Renovations	306,000	306,000	0	0	0	306,000	153,000
Lower Huron	North Fishing Site Redevelopment	288,800	297,399	0	290,799	0	6,600	144,400
Lower Huron	Backup Internet Fiber Installation	205,000	185,362	0	150,000	33,702	1,660	
Lower Huron	Toll Booth Replacement and Paving	30,000	32,170	2,382	24,222	21,650	(13,702)	
Lower Huron	Turtle Cove Crosswalk Path	90,000	102,770	109,262	117,036	0	(14,265)	
Lower Huron	Iron Bell Trail Project	716,700	845,016	35,958	84,464	756,937	3,615	488,742
Lower Huron	Walnut Grove Campground Improvements	784,600	784,600	0	0	0	784,600	450,000
Lower Huron	Off Leash Dog Area Development	330,800	330,800	0	0	0	330,800	165,400
Lower Huron	New Slide Structure at Turtle Cove	1,600,000	1,636,911	216,323	216,323	789,831	630,757	
Lower Huron	Accessible Path from Hawthorne Glade N Shelter to Turtle Cove	110,000	110,813	813	813	0	110,000	
Lower Huron	Accessible Path from Tulip Tree Shelter to Restrooms	30,000	31,838	1,838	1,838	0	30,000	
Hudson Mills	Backup Internet Fiber Installation	40,000	7,994	650	650	0	7,344	
Hudson Mills	Rapids View area Development	453,800	680,121	652,739	690,169	0	(10,048)	226,900
Hudson Mills	Picnic Area Development at Canoe Launch	385,500	404,915	7,514	19,415	0	385,500	192,700
Hudson Mills	UST Removal	-	39,131	38,820	45,136	2,465	(8,469)	
Hudson Mills	Replace Vault Toilet with CXT	110,000	216,427	6,977	6,977	211,545	(2,095)	
Hudson Mills	Accessible Access to Activity Center Shelter	40,000	40,212	212	212	0	40,000	
Hudson Mills	Convert Gas Storage Tanks for Above Ground	150,000	127,273	0	0	0	127,273	
Stony Creek	Shelden Trails Redevelopment	182,689	863,845	0	837,360	4,500	21,985	50,000
Stony Creek	Boat Launch Building Redevelopment	1,750,000	2,072,905	1,153,126	1,610,238	402,301	60,366	50,000
Stony Creek	Development of Off Leash Dog Area	138,500	271,286	59,525	276,776	0	(5,490)	
Stony Creek	Backup Internet Fiber Installation	80,000	80,000	0	0	70,407	9,593	
Stony Creek	26 Mile Rd. Connector - Bike Path	-	43,366	59,107	80,971	2,738	(40,343)	
Stony Creek	Golf Course Pumphouse & Irrigation System Replacement	1,000,000	1,000,000	0	0	0	1,000,000	
Stony Creek	Accessible Path from Winter Cove N to Winter Cove S Shelters	55,000	176,520	18,156	18,156	166,177	(7,813)	
Stony Creek	Accessible Path from W Branch North Shelter to Restroom	35,000	64,197	63,487	63,487	0	710	
Stony Creek	Develop Shelter in former Banquet Tent Area	500,000	500,000	0	0	0	500,000	
Stony Creek	Seawall Repair & Washington Twp Fire Dept Boat Pier	570,000	573,312	3,524	3,524	0	569,788	
Stony Creek	Reflection Nature Trail Improvements	931,200	931,200	283	283	0	930,917	465,600
Stony Creek	Hike Bike Path & Bridge Replacement btwn Winter Cove & Mt Ve	800,000	80,496	496	496	0	80,000	
Willow	Park Office Replacement	2,121,300	2,779,742	565,926	2,621,150	0	158,591	

**Capital Project Status Report
As of 10/31/2022**

Location	Project Title	Original Budget	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Available Grant Funding
Willow	Backup Internet Fiber Installation	40,000	0	0	0	0	0	
Willow	Big Bend Shoreline Protection	501,593	522,530	36,129	49,724	496,370	(23,564)	250,000
Willow	Washago Pond Restoration	903,697	905,621	1,923	5,621	0	900,000	
Willow	Accessible Path from Fox Meadows N & S Shelters to Pool	65,000	65,000	0	0	0	65,000	
Willow	Willow Park Office Communicaiton Conduit	-	33,808	33,808	33,808	0	0	
Oakwoods	Backup Internet Fiber Installation	40,000	0	0	0	0	0	
Oakwoods	Accessible Nature Trail Development	248,000	251,142	848	3,142	0	248,000	124,000
Lake Erie	Shoreline and Fish Habitat Restoration	1,600,000	1,638,253	466,316	674,198	713,665	250,390	1,404,353
Lake Erie	Boat Launch Fish Cleaning Station	45,000	45,000	0	0	0	45,000	
Lake Erie	Accessible Kayak Launch with Area Development	245,000	245,406	0	406	0	245,000	122,500
Lake Erie	Cherry Island Nature Trail Improvements	870,800	871,800	0	0	0	871,800	600,000
Lake Erie	Cove Point Vault Toilet Replacements	100,000	143,725	8,367	8,367	135,125	232	
Lake Erie	Sewer Line Replacement at Boat Launch Building	150,000	156,930	6,930	6,930	0	150,000	
Lake Erie	Protecting Lake Erie Marsh with Green Infrastructure	-	361	361	361	0	0	
Wolcott	Farm to Mill Trail Connector	1,000,000	1,000,958	0	958	0	1,000,000	
Indian Springs	Backup Internet Fiber Installation	40,000	7,758	0	0	0	7,758	
Huron Meadows	Backup Internet Fiber Installation	80,000	0	0	0	0	0	
		23,379,545	25,883,737	5,438,003	10,310,918	4,684,810	\$ 10,888,010	\$ 5,690,187



To: Board of Commissioners
From: Shedreka Miller, Chief of Finance
Subject: Report – Monthly Major Maintenance Update
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the Major Maintenance report as submitted by Chief of Finance Shedreka Miller and staff.

Background: The Metroparks track the costs associated with periodic or infrequent repairs or maintenance that do not meet the criteria for capitalization in a function of our chart of accounts known as major maintenance. We use a project accounting system to budget, record and report these costs. To provide the Board of Commissioners and the broader public with improved information surrounding major maintenance projects we have developed a monthly Major Maintenance Status Report.

This report is modeled after the revised Capital Project Fund report. The format includes the location, project title from the budget document, a brief description of the work, the original budget funding, the current amended budget, year-to-date transactions, life-to-date transactions, life-to-date encumbrance balance, the remaining budget and the project status.

Most major maintenance repairs are completed within one year. Occasionally projects require additional time to complete.

As of the end of October, there has been a lot of work contracted or started but year-to-date expenses are 26.9 percent of the total budget.

Attachment: October 2022 Major Maintenance Update

Major Maintenance Status Report
as of 10/31/2022

Location	Project Title	Project Description	Original Budget Funding	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Project Status
Administrative Office	Interior/Exterior Door Replacement	Replace Doors	-	17,957	17,957	17,957	0	0	Project completed
Administrative Office	Interior/Exterior Door Replacement	Replace Doors	20,000	17,951	0	0	0	17,951	Project brought over with 2021 funds
Lake St Clair	North/South Marina Dock Electrical	Replace electrical conductors that feed the power to the pedestals for boaters at the North Marina rental slips. Current electrical has been damaged due to high water levels	150,000	16,021	495	16,021	0	0	
Lake St Clair	Pool Slide Pump Conduit & Conductor Replacement	Replace pump on pool slide	-	171,122	0	171,122	0	0	Complete-2/14/22
Lake St Clair	Fishing Pier Replacements	Donation Funded project	-	208,825	206,709	152,371	0	56,454	Completed
Lake St Clair	Beach Soil/Containment Removal	In excess of 50,000 cubic yards of seaweed and other debris have accumulated from beach cleaning	-	50,000	49,250	49,250	0	750	Completed-1/24/22
Lake St Clair	Boardwalk Re-Surface of Remaining 1,100 ft	Continuation of decking Replacement and Repairs	150,000	2,100	2,100	2,100	0	0	
Lake St Clair	Stormwater Drainage Repairs on Culverts	Replacement of deteriorated culverts throughout the park	45,000	0	0	0	0	0	
Lake St Clair	Culvert Replacement (CUL-LSC-002, 009, 029)	Replacement of old deteriorated culverts-part of plan	26,191	0	0	0	0	0	
Kensington	Dam Concrete Work	Fix concrete spalling	247,000	3,698	0	3,698	0	0	
Kensington	Restripe roadways/crosswalks parkwide, accessible parking	Replacement of faded pavement markings	25,000	279	279	279	0	0	
Kensington	Repainting of Sprayzone towers and fence (at Martindale)	Painting of steel structures and fencing	100,000	1,449	1,449	1,449	0	0	
Kensington	Island Road repairs	Roadway Edge and Surface Repairs	438,000	410,874	321,534	321,534	0	89,340	Completed-8/22/22
Kensington	Spring Hill Swing Set Replacement	Replacement of old play equipment	30,000	21,525	21,525	21,525	0	0	Completed
Kensington	Golf Course Pump Control Panels	Emergency repair of pump house control panels due to flooding	-	46,756	99,131	99,131	0	(52,376)	Completed
	Roadway Overbanding	Overbanding on Roadways throughout the park	-	19,840	19,840	19,840	0	0	Complete-6/21/22
	Service Yard Tile Field Replacement	Replace Tile at Service Yard	-	1,186	1,186	1,186	0	0	
Kensington	Trail Improvement - Martindale north to Shore Fishing	Replaces the existing failing asphalt surface on the bike trail	427,000	0	0	0	0	0	
Kensington	Shore Line Restoration (SLR-KEN-002/003)	Shoreline erosion mitigation	73,000	0	0	0	0	0	
Kensington	Boat Launch Building & Seawall Repairs	Repairs to the steel on the existing seawall	30,000	0	0	0	0	0	
Kensington	Replace culverts (CUL-Ken-041,85,89)	Replacement of old deteriorated culverts	17,000	0	0	0	0	0	
Lower Huron	Replacement of Starter Tub-Turtle Cove	Replacement of the starting tub for the Turtle Cove green tube slide. Located at the top of the slide tower, crane needed to assist in replacement.	-	53,815	56,082	65,181	0	(11,366)	Completed -- 8/4/22
Lower Huron	Woods Creek Restroom Furnace	Install furnace in restroom closest to new Playground	-	11,265	11,265	11,265	0	0	Complete-2/3/22
Lower Huron	Turtle Cove UV Light Replacement	Replacement of ultraviolet disinfection for pool	25,000	14,299	0	0	14,299	0	In Progress-Wrong parts shipped, may have to carry over
Lower Huron	Turtle Cove - Marcite Annual Repairs	General annual surface repairs	15,000	0	0	0	0	0	
Lower Huron	Turtle Cove Splash Pad Resurfacing	Splash area concrete surface coating	30,000	19,750	19,750	19,750	0	0	Complete-6/10/22
	Rebudget - Turtle Cove VFD Panels Replacement	Control panel variable speed drive controller replacements	35,000	33,170	33,547	33,547	0	(377)	Completed-7/6/22
Lower Huron	Lower Huron North End Parkway Resurfacing	Roadway surface repairs	650,000	0	0	0	0	0	
Lower Huron	Lower Huron Drainage/Culvert Replacement CUL LH 564 Camp Dr	Replacement of old deteriorated culverts	12,090	0	0	0	0	0	

Major Maintenance Status Report
as of 10/31/2022

Location	Project Title	Project Description	Original Budget Funding	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Project Status
Hudson Mills	Golf Starter Building Roof Replacement	Replacement of flat roof section	80,000	1,220	1,508	1,220	0	0	
Hudson Mills	Golf Course Pump Station Upgrades	Replacement pumps	-	66,000	1,000	66,000	0	0	Completed-8/9/22
Hudson Mills	Cart Path Repairs	Asphalt cart path surface repairs	40,000	0	0	0	0	0	
Hudson Mills	Replace Outfalls (SDC-HUD-001, 009, 016) per Storm Mgmt Plan	Replacement of stormwater discharge culvert (SDC) outfalls	14,000	0	0	0	0	0	
Stony Creek	Golf Course Culvert Installs for Water Drainage	Cut cart path and install culvert to eliminate wet areas	40,000	27,250	27,250	27,250	0	0	Completed-9/21/22
Stony Creek	Pavement Markings	Address worst portions of trail and roadway	-	18,950	0	15,010	0	3,940	Open
Stony Creek	Restriping of park roads, hike-bike paths & crosswalks	Restriping of pavement markings	35,000	212	212	212	35,020	(35,020)	
Stony Creek	Small Well Replacement	New well and controller for supplemental water well	30,000	305	305	305	0	0	
Stony Creek	Stormwater Drainage Repairs on Culverts	Replacement of deteriorated culverts	50,000	31,000	39,190	0	0	31,000	Complete by year end
Willow	Hike Bike Trail Reconstruction-Oakwoods Connector to Chestnut Rd	Hike bike trail resurface and correct drainage issue between Oakwoods and Willow Metroparks.	-	157,331	16,353	151,262	0	6,069	Completed-2/1/22
Willow	Hike Bike Trail CSX Crossing Accessibility Improvements	Trail Improvements	-	1,722	1,722	1,722	0	0	
Willow	Willow Woods creek Trailhead Relocation	Installation of new trailhead signage	15,000	0	0	0	0	0	Materials bought-will carry over
Oakwoods	Tollbooth Electrical	Electrical connection to tollbooth	-	41,607	1,137	1,137	40,470	(0)	
Lake Erie	Marina Building Use Evaluation	Marina Building Use Evaluation	-	30,000	0	20,500	7,500	2,000	In Progress
Lake Erie	Boat Launch Sanitary Updates	Replacement of nonfunctioning sewer line and pumps	-	102	0	102	0	0	
Lake Erie	Dredge Marina Channel and Relocate Spoils pile	Dredging and moving of previous spoils piles	150,000	5,583	15,632	18,670	0	(13,087)	In Design
Lake Erie	Marcite Repair at Shallow End of Wave Pool	Total replacement of the Wave pool shallow end marcite; roughly 12,500 sq ft.	-	388,918	0	67,067	0	321,852	Carry Over
Lake Erie	Wave Pool Plaza Cement Work	Various sections of cement around wave pool plaza; to include a section of the hike bike path behind pool mechanical building.	-	75,941	2,778	18,103	0	57,838	Project closed. New one opened
Lake Erie	Museum Wall Repair	Repair of leaning patio retaining wall	100,000	1,695	1,695	1,695	0	0	
Lake Erie	Golf Maintenance Building Repairs	Repair/replace a wall, window and exterior siding of the Lake Erie golf course maintenance building.	-	23,350	23,350	23,350	0	0	Completed-5/5/22
Lake Erie	Marina Boiler Vent Stack Repair	Repair of existing heating vent stack on the marina building	-	23,906	8,906	23,906	0	0	Complete
Lake Erie	Nature trail boardwalk repairs of Northern Trapper run	Replacement of deteriorated wooded boardwalk	35,000	0	0	0	0	0	
Lake Erie	Wave Pool Plaza Cement Work	Various sections of cement around wave pool plaza; to include a section of the hike bike path behind pool mechanical building. New Vendor-replaces 71221.136	-	38	38	38	0	0	Going to board in Nov.
Lake Erie	Replace electric wiring at Marina boat docks	Upgrade existing wiring to marina pedestals	50,000	0	0	0	0	0	
Lake Erie	SWMP Projects-Drainage/Culvert Replacement-LE036, 005, 006, 015	Replacement of deteriorated culverts	16,354	0	0	0	0	0	
Wolcott	Fill in Raceway at Mill	Project to look at filling in the raceway beneath the Mill	-	80,000	0	0	0	80,000	
Wolcott	Door Replacement for Dairy Barn	Replace deteriorated doors	37,800	47,079	12,855	12,855	33,060	1,164	

Major Maintenance Status Report
as of 10/31/2022

Location	Project Title	Project Description	Original Budget Funding	Amended Budget	Year to Date Transactions	Life to Date Transactions	Life to Date Encumbrance	Remaining Budget	Project Status
Indian Springs	Dome Polishing & Seal Replacement. Carpet Replacement	Polishing and resealing of the interior and exterior surface of the underwater dome	-	271,873	2,347	265,728	(1,920)	8,066	Completed-2/4/22
Indian Springs	Steel Beam Repair	Steel Beam at Repair at Golf Course	-	11,700	11,700	11,700	0	0	Completed-2/14/22
Indian Springs	Replace Irrigation Head control system at Golf Course	Replacement of irrigation head control system	85,000	105,537	0	0	105,537	0	Carry Over
Indian Springs	Storage Building Asbestos Abatement	Storage Building Asbestos Abatement	-	0	0	0	11,975	(11,975)	
Indian Springs	Pumphouse Upgrades at Golf Course	Pumps house replacement of pump, valves, and controls	431,000	0	0	0	0	0	Moving to Capital
Indian Springs	Replace Culverts (CUL-IND-22,29,34)	Replace deteriorated culverts	16,000	0	0	0	0	0	
Huron Meadows	Golf Starter Building Roof Replacement	Replacement of the existing shingle roof on the starter building	75,000	29,127	4,200	29,127	0	0	
			<u>\$ 3,845,435</u>	<u>\$ 2,562,330</u>	<u>\$ 1,034,281</u>	<u>\$ 1,764,169</u>	<u>\$ 245,940</u>	<u>\$ 552,221</u>	

To: Board of Commissioners
 From: Mike Henkel, Chief of Engineering Services
 Subject: Affirmation – Permitted Facilities Agreement
 Location: Lower Huron Metropark
 Date: October 7, 2022

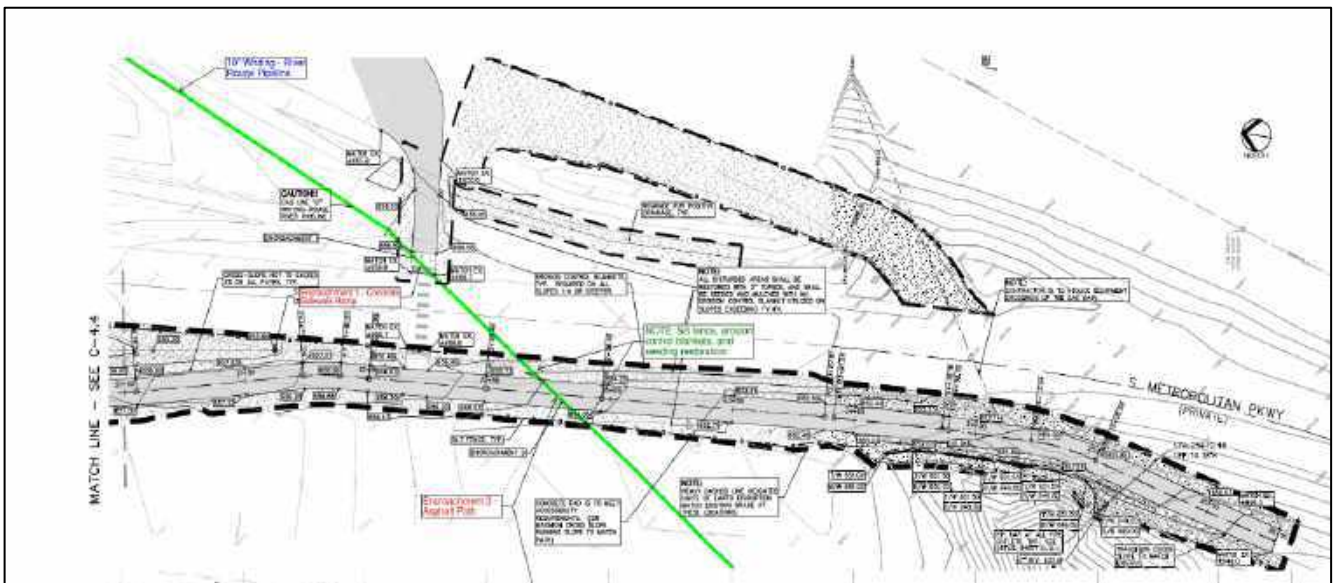
Action Requested: Motion to Affirm

That the Board of Commissioners (1) affirm the permitted Facilities Agreement with BP pipeline company, LLC for access onto the existing Right of Way agreement for the construction of the Border-to-Border trail segment in Lower Huron Metropark; and (2) authorize staff to execute the agreement as recommended by Chief of Engineering Services Mike Henkel and staff.

Background: Staff has been working with BP and Miller Canfield on an agreement to construct the new section of the Border to Border trail which goes over an existing pipeline in Lower Huron Metropark which is currently owned by BP pipeline company. The trail is currently under construction and the Permitted Facilities Agreement is necessary for its completion. The project crosses the pipeline in two areas as shown below. The pipeline is depicted as the green line. The Permitted Facilities Agreement modifies the original Right of Way agreement moving forward and assigns rights to each party in reference to the constructed and maintenance of the trail.

The existing agreement has been reviewed by Miller Canfield.

Location



Path and Easement area



Attachments: Permitted Facilities Agreement

This Document prepared by
and when recorded return to:
Keith Boyle
BP Pipelines (North America) Inc.
30 South Wacker Drive
Suite 900
Chicago, IL 60606

BP File: 4005_0933
Database: 13234

PERMITTED FACILITIES AGREEMENT

DATE: September 14, 2022

GRANTOR: BP River Rouge Pipeline Company LLC
30 South Wacker Drive, Suite 900
Chicago, IL 60606

GRANTEE: Huron - Clinton Metropolitan Authority
Attn: Mike Henkel
13000 High Ridge Drive
Brighton, MI 48114

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, **BP River Rouge Pipeline Company LLC**, a Delaware limited liability company (hereinafter called "BP"), is the present owner of a right of way and easement (hereinafter called the "Easement"), in, over, through, under and across the following described parcel of land located in Wayne County, MI:

See Exhibit A Attached hereto;

granted by Huron-Clinton Metropolitan Authority, a public body corporate under the laws of Michigan, 1750 Guardian Building, Detroit 26, Michigan, to Standard Oil Company, its successors and assigns, March 23, 1953, and recorded August 25, 1953, in Book 11832, Page 590 in the Office of the Recorder of Wayne County, MI and the following described parcel of land located in Wayne County, MI:

WHEREAS pursuant to the Easement, BP owns, maintains, and operates a pipeline with equipment, appurtenances, and apparatus thereto, if any (hereinafter collectively called "Pipeline") within said Easement; and

WHEREAS **Huron - Clinton Metropolitan Authority, FKA Huron-Clinton Metropolitan Authority, a public body corporate under the laws of Michigan, 1750 Guardian Building, Detroit 26, Michigan, and FKA Huron-Clinton Metropolitan Authority, a public body corporate under the laws of Michigan, 1100 Cadillac Square Building, Detroit, Michigan, party of the second part,** (hereinafter called "LANDOWNER") has subsequently acquired title to a tract of land legally described in Exhibit A attached hereto and made a part hereof, being all or a part of the same land covered by the Easement; and

WHEREAS, LANDOWNER has requested BP to consent to certain improvements including the installation of the following improvements:

- Construction for the proposed trail extension in Belleville, Michigan, for the Huron – Clinton Metropolitan Authority.

(hereinafter called "Permitted Facilities"), as more clearly depicted on Exhibit B attached hereto and made a part hereof, which would be within the Easement.

NOW, THEREFORE, in reliance on the aforesaid representation and the mutual covenants herein contained, notwithstanding any of the provisions of the Easement which prohibit such construction within the Easement, BP hereby consents and agrees, insofar as it has the lawful right so to do, to the construction and maintenance of the Permitted Facilities within the Easement, subject to the following terms and conditions:

- 1) BP has the right to remove portion(s) of the Permitted Facilities as necessary in BP's sole discretion in the exercise of its rights under the Easement. After BP has completed any work necessitating the removal of the Permitted Facilities or any portion thereof, LANDOWNER shall be responsible for replacing and repairing the Permitted Facilities subject to the terms and conditions of this Agreement, BP shall not be responsible for any damage to the Permitted Facilities, unless such damage was caused directly by BP's sole and gross negligence or willful misconduct, and LANDOWNER releases BP from all costs, losses or damages directly or indirectly arising from BP's removal of portions of the Permitted Facilities, except for those directly resulting from BP's sole and gross negligence or willful misconduct.
- 2) LANDOWNER shall release, defend, indemnify and hold harmless BP and its affiliates, and its and their agents, employees, officers, directors, insurers, contractors, subcontractors, representatives, successors and assigns (BP and such entities/individuals, collectively, the "BP Parties") from and against any and all actions, claims, settlements, judgments, demands, liens, losses, liabilities, damages, fines, penalties, interest, costs, expenses (including, without limitations, expenses attributable to the defense of any actions or claims), and reasonable attorney's fees and other legal expenses and costs, (collectively "losses") arising out of (a) injury to, or death of persons (including any BP Party) or (b) damage to or loss of any property (including that of any BP Parties) or (c) harm to the environment, caused by, arising out of, or resulting from, either directly or indirectly, the activities contemplated under this Agreement, but excluding any losses to the extent directly caused by the sole and gross negligence or willful misconduct of any BP Party.
- 3) All costs and expenses for constructing, operating, maintaining, and replacing and removing (other than as performed at BP's sole discretion) the Permitted Facilities shall be borne solely by LANDOWNER, its successors, and assigns.

- 4) LANDOWNER shall not commence with any excavation or construction without first contacting the local "One-Call" utility locating service at least 48 hours (two working days) prior to initiating any excavation or construction activities so BP can arrange to have a representative present when LANDOWNER or its contractor are performing activities contemplated under this Agreement.
- 5) BP may, at its sole discretion, cost and expense, elect to have a representative on site when LANDOWNER or its contractor are performing activities contemplated under this Agreement and LANDOWNER herein acknowledges that BP's representative shall have full authority to stop any of LANDOWNER's excavation or construction related activities if BP's representative, in his/her sole discretion, feels LANDOWNER's activities could result in damage to BP's Pipeline.
- 6) LANDOWNER shall immediately cease work and notify BP if BP's Pipeline is struck by any means of earth disturbing equipment so BP can inspect its Pipeline, and if required, make all necessary repairs.
- 7) LANDOWNER shall require its contractor to follow the general excavation and construction requirements outlined in Exhibit C attached hereto, and the terms outlined in the Approval Letter a copy of which is attached as Exhibit D when performing activities contemplated under this Agreement.

All notices shall be sent by United States registered or certified mail, return receipt requested, and shall be addressed to the parties at the addresses first mentioned above or at such other address as the parties may direct.

The Easement shall remain in full force and affect except as modified and changed by this Agreement.

If any one or more of the provisions of this Agreement, or the applicability of any such provisions to a specific situation shall be invalid or unenforceable, the validity and enforceability of all other applications of such provisions shall not be affected.

The covenants contained in this Agreement shall constitute covenants running with the land and shall be binding upon and insure to the benefit of the parties hereto, their personal representatives, heirs, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto separately and severally have caused this AGREEMENT to be executed in their respective names by and through their duly authorized representatives, as of the day and year first above written.

[Signature pages follow.]

Huron - Clinton Metropolitan Authority, FKA Huron-Clinton Metropolitan Authority, a public body corporate under the laws of Michigan, 1750 Guardian Building, Detroit 26, Michigan, and FKA Huron-Clinton Metropolitan Authority, a public body corporate under the laws of Michigan, 1100 Cadillac Square Building, Detroit, Michigan

By:

Name: Amy McMillan

 Please Print

Title: Director

 Please Print

ACKNOWLEDGMENT

THE STATE OF _____)
)
 COUNTY OF _____)

Before me, a Notary Public in and for said County and State, on this day personally appeared _____ , known to me to be the _____ , of **Huron - Clinton Metropolitan Authority** and acknowledged to me that _____ executed said instrument for the purposes and consideration therein expressed, and as the act of said limited liability company.

Given under my hand and seal of office this _____ day of _____ , _____ .

Notary Public

My Commission Expires: _____

EXHIBIT A

Part of the Northeast $\frac{1}{4}$ of Section 25, Township 3 South, Range 8 East, Van Buren Township, Wayne County, Michigan more particularly described as:

Beginning at a point which lies North 3 degrees 34 minutes East 1657.4 feet from the center of Section 25; thence South 72 degrees 34 minutes 30 seconds East 567.55 feet; thence South 29 degrees 59 minutes 30 seconds East 243.0 feet; thence North 3 degrees 34 minutes East 188.98 feet to the South bank of Huron River; thence Westerly upstream and along the Southerly bank of the River 752.5 feet to the North—South quarter line of Section 25; thence South 3 degrees 34 minutes West 103.26 feet to the point of beginning, together with all rights and lands lying between the above described land and the center of the Huron River.

A part of the Northeast $\frac{1}{4}$ Section 25, Township 3 South, Range 8 East, Van Buren Township, Wayne County, Michigan beginning at a point on the North line of section 25, which is North 89 degrees 41 minutes 35 seconds West 1274.77 feet from the Northeast corner of Section 25; thence South 19 degrees 57 minutes 40 seconds West 132.85 feet; thence South 0 degrees 17 minutes 50 seconds East 329.45 feet; thence South 6 degrees 03 minutes East 398.34 feet; thence South 31 degrees 16 minutes West 530 feet to the Northeasterly bank of the Huron River; thence upstream along the Northeasterly bank of the Huron River to the North line of Section 25; thence South 89 degrees 41 minutes 35 seconds East 438.38 feet to the point of beginning, together with all rights and lands lying between the above described land and the center of Huron River.

Beginning at a point on the East line of Section 24 which is South 1 degree 30 minutes West 1925.80 feet from the center line of Huron River Drive; thence North 88 degrees 30 minutes West 609.2 feet; thence South 69 degrees 58 minutes West 1058.8 feet to the Northeasterly bank of the Huron River; thence downstream along said bank to the South line of Section 24; thence South 85 degrees 40 minutes East 438.38 feet along the South line of Section 24; thence North 23 degrees 59 minutes 15 seconds East 900.9 feet; thence North 42 degrees 01 minutes 15 seconds East 462.72 feet; thence 85 degrees 34 minutes 45 seconds East 92.80 feet; thence North 1 degree 37 minutes East 328.0 feet; thence South 87 degrees 55 minutes East 543.59 feet to the East line of Section 24; thence North 1 degree 30 minutes East 150 feet to the point of beginning.

MATCH LINE - SEE C-2.4

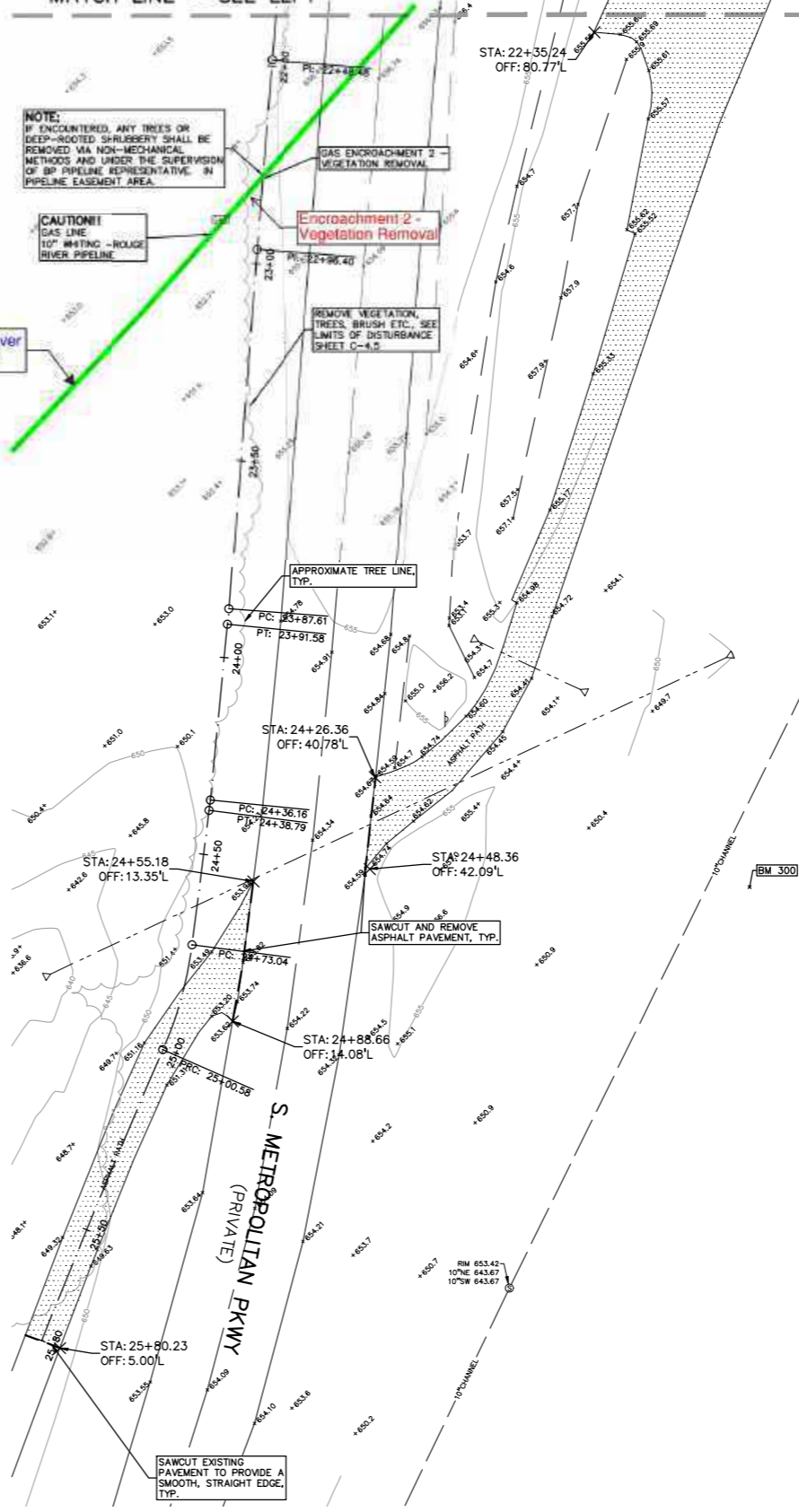
MATCH LINE - SEE LEFT



10' Whiting - River Rouge Pipeline

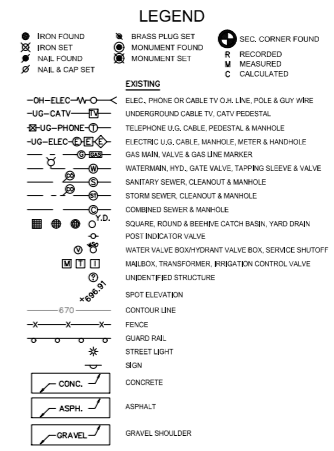
10' Whiting - River Rouge Pipeline

MATCH LINE - SEE RIGHT



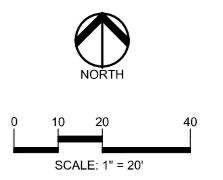
10' Whiting - River Rouge Pipeline

S. METROPOLITAN PKWY
(PRIVATE)

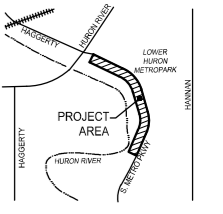


REFERENCE DRAWINGS
GAS: BP PIPELINE MAP 1918 12574, DATED MARCH 23, 2021
SANITARY SEWER: VAN BUREN TOWNSHIP MAP, EMAIL DATED 03/12/2021
ELECTRIC: DTE ELECTRIC FACILITY MAP #204-238, 244-280 & 244-280, DATED: 2/20/21

BENCHMARKS
(GPS DERIVED - NAVD88)
BM #300
BENCH TIE IN THE WEST SIDE OF A 24" TREE, LOCATED APPROX. 100' EAST FROM THE CENTERLINE OF S. METRO PKWY & APPROX. 500' NORTH FROM GAS SUB-STATION, ELEV. = 656.45
BM #301
MAG NAIL IN THE NORTH FACE OF A POLWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY, ELEV. = 652.80



CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE EXACT DEPTHS OR EXACT HORIZONTAL LOCATIONS OF SUCH UTILITIES. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
HURON CLINTON METROPARKS
13000 HIGH RIDGE DRIVE
BRIGHTON, MICHIGAN 48114

PROJECT TITLE
LOWER HURON IRON BELLE TRAIL EXTENSION
LOWER HURON METRO PARK
PART OF THE SOUTH 1/2 OF SECTION 24
VAN BUREN TWP., WAYNE COUNTY, MICHIGAN

REVISIONS

NO.	DATE	DESCRIPTION
1	9-28-21	PER CLIENT
2	12-9-21	PER BP
3	1-4-22	PER BP
4	1-20-22	PER CLIENT

ORIGINAL ISSUE DATE:
AUGUST 5, 2021

DRAWING TITLE
TOPOGRAPHIC SURVEY AND DEMO PLAN

PEA JOB NO. 2021-0108

P.M.	JS
DN.	JMR
DES.	JMR

DRAWING NUMBER:

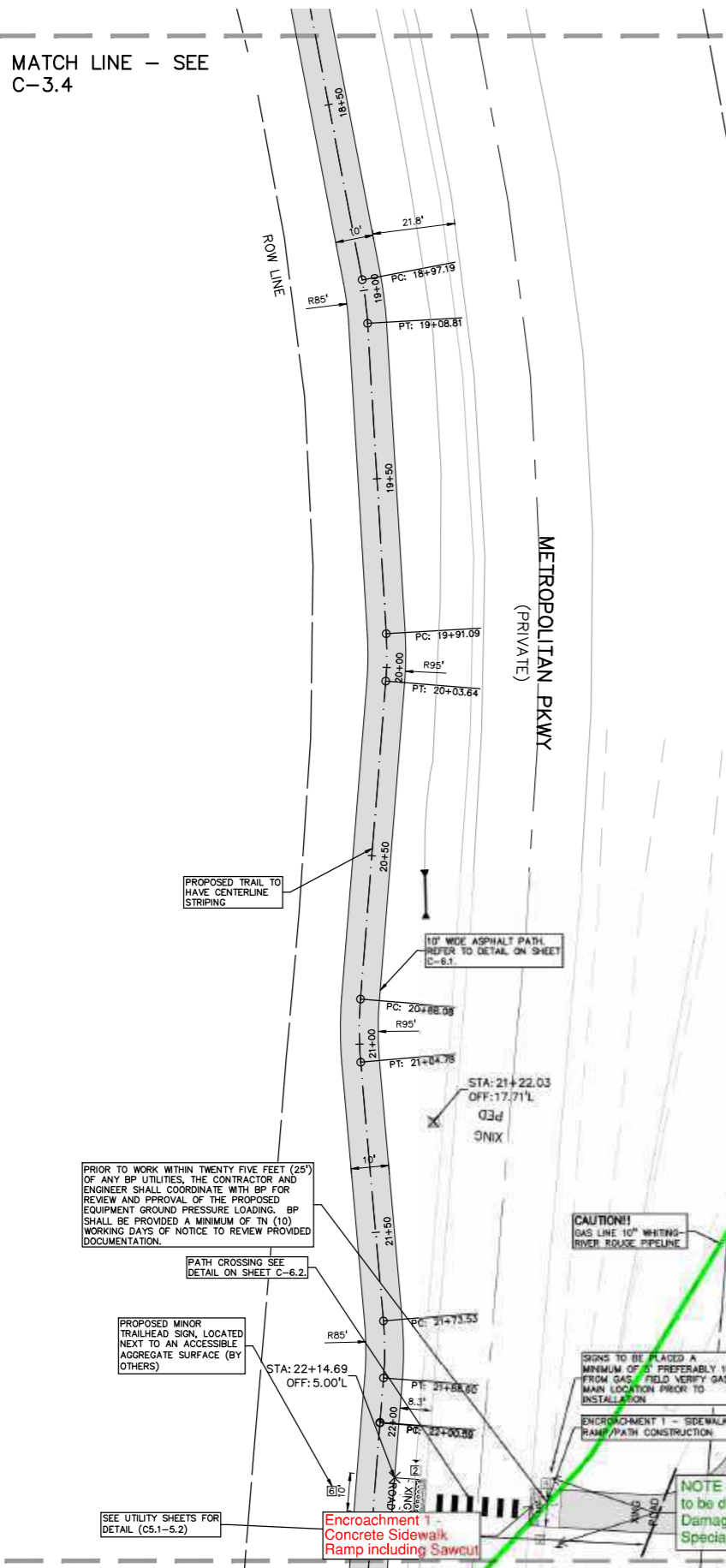
LEGAL DESCRIPTION
(Per on-line Assessing)
PARCEL ID 83 096 99 0004 000
Land in the Township of Van Buren, Wayne County, Michigan, described as follows:
THAT PT OF THE S 1/2 OF SEC 24 DESC AS BEG AT THE S 1/4 COR OF SEC 24 AND PROCC TH S89DEG 41M 35S E ALONG THE S SEC LINE 1473.05FT TH N23DEG 59M 15S E 896.18FT TH N42DEG 01M 15S E 462.72FT TH S85DEG 34M 45S E 92.80FT TH N10DEG 37M E 172.38FT TH S 8DEG 30M E 213.78FT TH N10DEG 30M E 134.23FT TH N59DEG 22M 30S E 35.55FT TH S87DEG 55M E 300FT TH N10DEG 30M E ALONG THE E SEC LINE 150FT TH N88DEG 30M W 609.20FT TH S71DEG W 307FT TH N10DEG 30M E 143.37FT TH N88DEG 30M W 316.15FT TH S69DEG 23M 15S W 353.80FT TH N39DEG 28M 30S W 1120.22FT TH ALONG THE SELY LINE OF NEWLY ESTABLISHED HURON RIVER DR S42DEG 36M 43S W 244.77FT AND ON A TANGENT CURVE TO THE RIGHT RAD 1710.97FT TO THE N AND S 1/4 SEC LINE TH S0DEG 18M 20S E ALONG SAID LINE TO THE SE COR OF LOT 232 SUPERS VAN BUREN PLAT NO 7 AS REC IN L73 OF PLATS P45 WCR TH N89DEG 45M W ALONG THE S LINE OF SAID LOT 205.83FT TH SWLY ALONG THE SELY LINE OF SAID HURON RIVER DR ON A CURVE CONC TO THE NW RAD 1660.97FT ARC 94.73FT TH S43DEG 34M OS E 506.40FT TH S10DEG 30M 45S W 726.46FT TH S25DEG 10M W 512.39FT TH S0DEG 38M 45S W 400FT TH S88DEG 45M 15S E ALONG THE S SEC LINE 524.17FT TO THE POB 77.27 AC

FLOODPLAIN:
(Per Flood Insurance Rate Map Number 26163C0358E, effective February 2, 2012)
BY GRAPHICAL PLOTTING, THE SITE LIES WITHIN:
SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
The 1% annual chance flood (100 year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
ZONES:
ZONE A - No Base Flood Elevations determined.
OTHER AREAS
ZONE X - Area to be determined outside of the 0.2% annual chance floodplain.

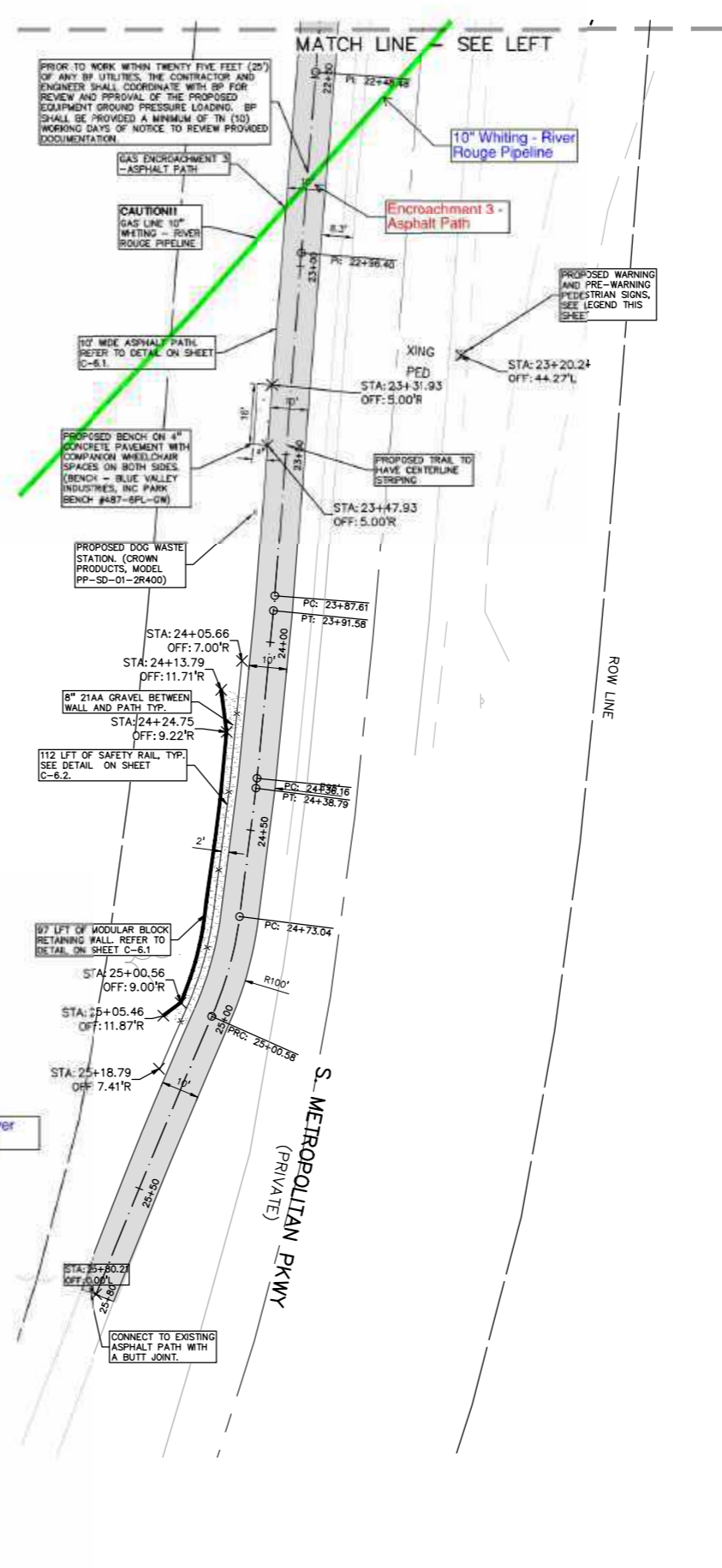
NOT FOR CONSTRUCTION

C-2.5

MATCH LINE - SEE C-3.4



MATCH LINE - SEE RIGHT



LEGEND

EXISTING

- IRON FOUND
- IRON SET
- NAIL FOUND
- NAIL & CAP SET
- UNDERGROUND CABLE TV OR LINE, POLE & GUY WIRE
- TELEPHONE U.S. CABLE, FIBER OPTIC, MANHOLE
- ELECTRIC U.S. CABLE, MANHOLE, METER & HAND-HOLE
- GAS MAIN VALVE & GAS LINE MARKER
- WATERMAIN, HYD. GATE VALVE, TAPPING SERVICE & VALVE
- SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE, SOLENOID VALVE, BOX, SERVICE SHUTOFF
- MANHOLE, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE
- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD RAIL
- STREET LIGHT
- SEIK
- CONC. CONCRETE
- ASPH. ASPHALT
- GRAVEL GRAVEL SHOULDER
- WETLAND

PROPOSED

- REC. CORNER FOUND
- RECORDED
- MEASURED
- CALCULATED
- STB HEAVY FLOW DUTY ONLY
- STB HEAVY DEEP DUTY STRENGTH

BENCHMARKS

(GPS DERIVED - NAVD88)

BM #300
BENCH TIE IN THE WEST SIDE OF A 24" TREE, LOCATED APPROX. 100' EAST FROM THE CENTERLINE OF S. METRO PKWY & APPROX. 500' NORTH FROM GAS SUB-STATION. ELEV. - 656.45

BM #301
MAG NAIL IN THE NORTH FACE OF A POWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY. ELEV. - 652.80

KEY

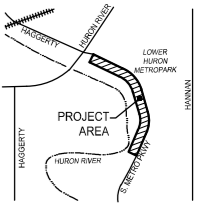
DECIDUOUS TREES (NONE THIS SHEET)

PEA GROUP
t: 844.813.2949
www.peagroup.com

0 10 20 40
SCALE: 1" = 20'

811 *What's Below. Call before you dig.*

CAUTION!
THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED THAT THE SHOWN UTILITIES ARE ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
HURON CLINTON METROPARKS
13000 HIGH RIDGE DRIVE
BRIGHTON, MICHIGAN 48114

PROJECT TITLE
LOWER HURON IRON BELLE TRAIL EXTENSION
LOWER HURON METRO PARK
PART OF THE SOUTH 1/2 OF SECTION 24
VAN BUREN TWP., WAYNE COUNTY, MICHIGAN

GENERAL NOTES:
THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.

- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, OUTSIDE FACE OF BUILDING, PROPERTY LINE, CENTER OF MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE PAVING DETAILS.
- REFER TO NOTES & DETAILS SHEET FOR ON-SITE SIDEWALK RAMP DETAILS

SIDEWALK RAMP LEGEND:

- SIDEWALK RAMP "TYPE R" (R)
- SIDEWALK RAMP "TYPE F" (F)
- CURB DROP ONLY (D)

REFER TO LATEST MDT R-28 STANDARD RAMP AND DETECTABLE WARNING DETAILS

SIGN LEGEND:

- 'SHOULDER NARROWS' SIGN (1)
- W11-15/W16-7P SIGN (2)
- W11-15/W16-9p (3)
- R-1-1/R5-3 (4)
- W3-1 (5)
- MINOR TRAIL HEAD (BY PARKS) (6)

REFER TO DETAIL SHEET FOR SIGN DETAILS

REVISIONS

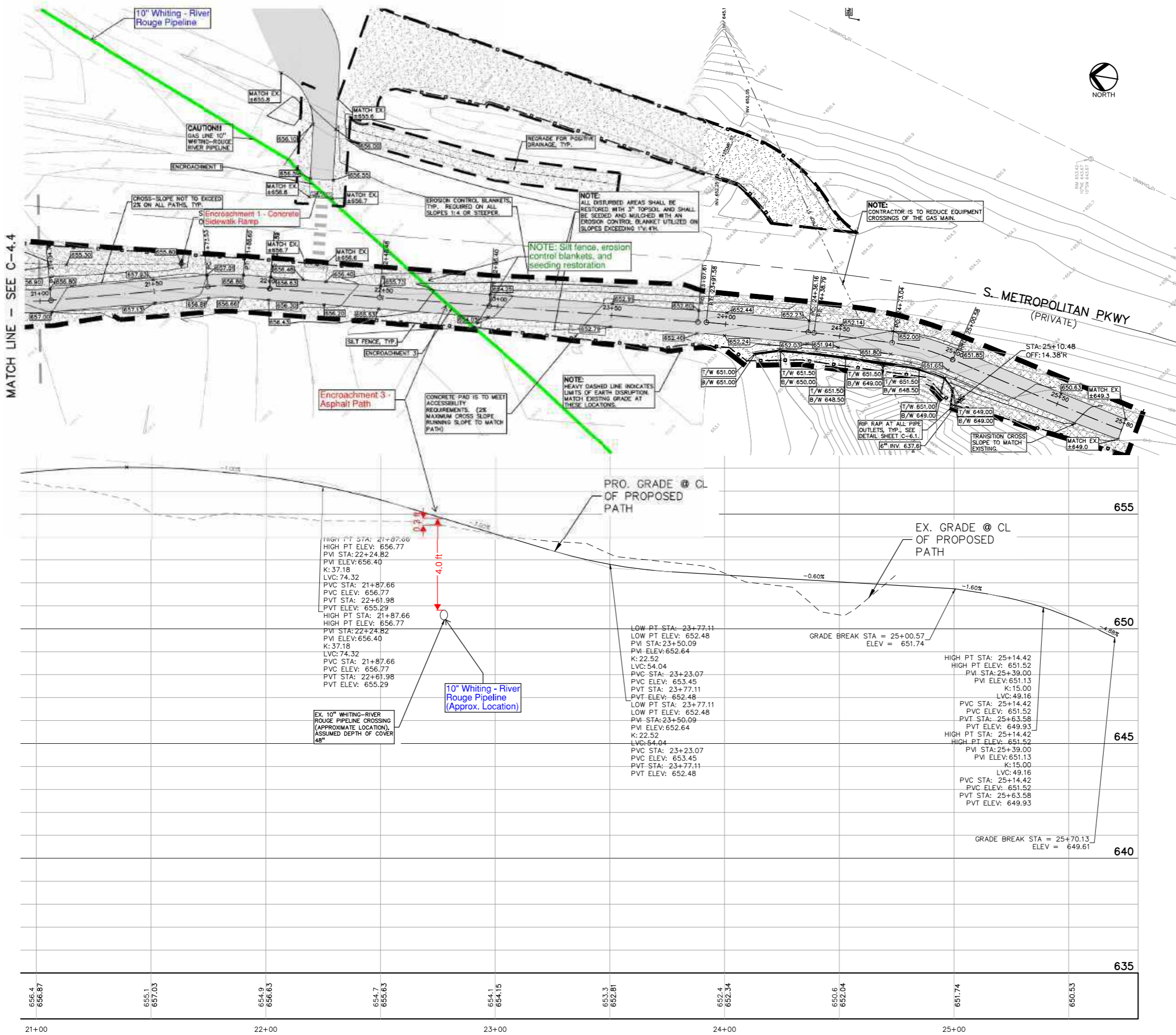
PER CLIENT	9-28-21
PER BP	12-9-21
PER BP	1-4-22
PER CLIENT	1-20-22

ORIGINAL ISSUE DATE:
AUGUST 5, 2021

DRAWING TITLE
DIMENSION AND PAVING PLAN

PEA JOB NO. 2021-0108
P.M. JS
DN. JMR
DES. JMR
DRAWING NUMBER:

NOT FOR CONSTRUCTION **C-3.5**



LEGEND

- IRON FOUND
- BRASS PLUS SET
- SEC. CORNER FOUND
- MONUMENT FOUND
- RECORDED
- MEASURED
- NAE & CAP SET
- CALCULATED

EXISTING

- ELEC. POLE OR CABLE TV ON LINE, POLE & GUY WIRE
- UNDERGROUND CABLE TV, CATV, PEDESTAL
- TELEPHONE U.S. CABLE, PEDESTAL, METER & HAND-LE
- ELECTRIC U.S. CABLE, MANKLE, METER & HAND-LE
- GAS MAIN, VALVE & GAS LINE MARKER
- WATERMAIN, HDG. GATE VALVE, TAPPING ELBOW & VALVE
- SANITARY SEWER, CLEANOUT & MANHOLE
- STORM SEWER, CLEANOUT & MANHOLE
- COMBINED SEWER & MANHOLE
- SQUARE, ROUND & BEEHIVE CATCH BASIN, YARD DRAIN
- POST INDICATOR VALVE
- WATER VALVE, SOUVENIR VALVE BOX, SERVICE SHUTOFF
- MANHOLE, TRANSFORMER, IRRIGATION CONTROL VALVE
- UNIDENTIFIED STRUCTURE

PROPOSED

- SPOT ELEVATION
- CONTOUR LINE
- FENCE
- GUARD-RAIL
- STREET LIGHT
- IRON
- CONCRETE
- ASPHALT
- GRAVEL SHOULDER

REFERENCE DRAWINGS

- GAS: BP PIPELINE MAP 191512574, DATED MARCH 23, 2021
- SANITARY SEWER: VAN BUREN TOWNSHIP MAP, EMAIL DATED 03/12/2021
- ELECTRIC: DTE ELECTRIC FACILITY MAP #204-208, 244-260 & 244-260, DATED: 2/9/2021

BENCHMARKS
 (GPS DERIVED - NAVD88)

BM #300
 BENCH TIE IN THE WEST SIDE OF A 24" TREE, LOCATED APPROX. 100' EAST FROM THE CENTERLINE OF S. METRO PKWY & APPROX. 500' NORTH FROM GAS SUB-STATION, ELEV. = 656.45

BM #301
 MAG NAIL IN THE NORTH FACE OF A POLWER POLE LOCATED AT THE SOUTH CORNER OF HURON RIVER DR & HAGGERTY RD/METRO PKWY, ELEV. = 652.80



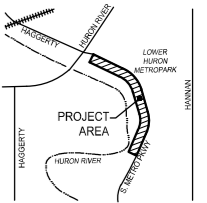
CAUTION!
 THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE EXACT DEPTH OR LOCATION THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

SYMBOLS: GRADING

PROPOSED SPOT ELEVATION:
 TYPICALLY TOP OF PAVEMENT IN PAVED AREAS, GUTTER GRADE IN CURB LINES.

PROPOSED CONTOUR LINE

ABBREVIATIONS:
 T/C = TOP OF CURB
 G = GUTTER GRADE
 T/P = TOP OF PAVEMENT
 T/S = TOP OF SIDEWALK
 T/W = TOP OF WALL
 B/W = BOTTOM OF WALL
 F.G. = FINISH GRADE
 RIM = RIM ELEVATION



RETAINING WALL NOTE:
 TOP OF WALL (T/W) AND BOTTOM OF WALL (B/W) GRADES ARE THE FINISH GRADE AT THE TOP AND BOTTOM OF THE RETAINING WALL, NOT ACTUAL TOP AND BOTTOM OF THE WALL STRUCTURE.

CLIENT
HURON CLINTON METROPARKS
 13000 HIGH RIDGE DRIVE
 BRIGHTON, MICHIGAN 48114

EARTHWORK BALANCING NOTE:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

PROJECT TITLE
LOWER HURON IRON BELLE TRAIL EXTENSION
 LOWER HURON METRO PARK
 PART OF THE SOUTH 1/2 OF SECTION 24
 VAN BUREN TWP., WAYNE COUNTY, MICHIGAN

SYMBOLS: EROSION CONTROL

- SILT FENCE (REFER TO DETAIL ON SHEET C-6.2 SHEET)
- INLET FILTER
- EROSION CONTROL BLANKETS
- APPROXIMATE SEEDING RESTORATION LOCATIONS
- LIMITS OF DISTURBANCE

REVISIONS

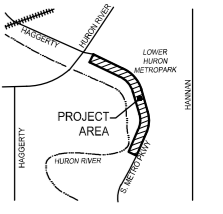
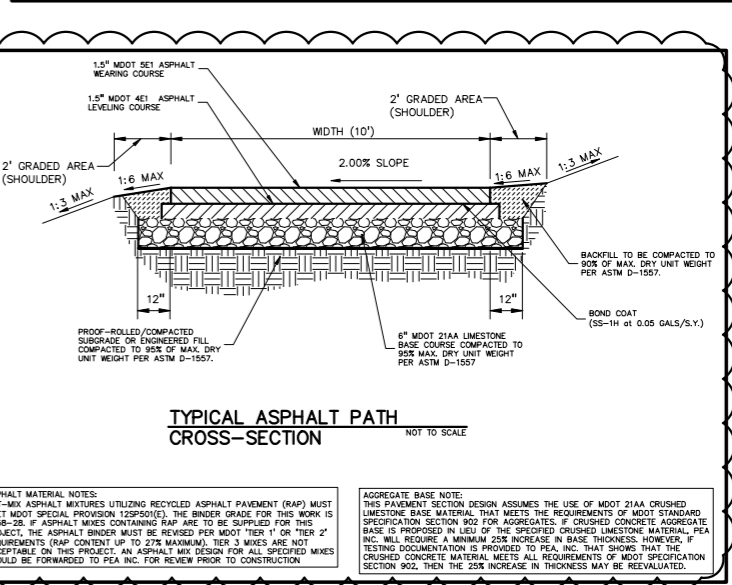
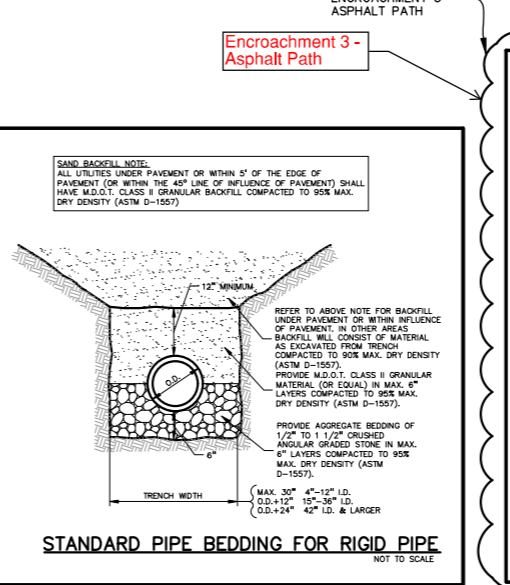
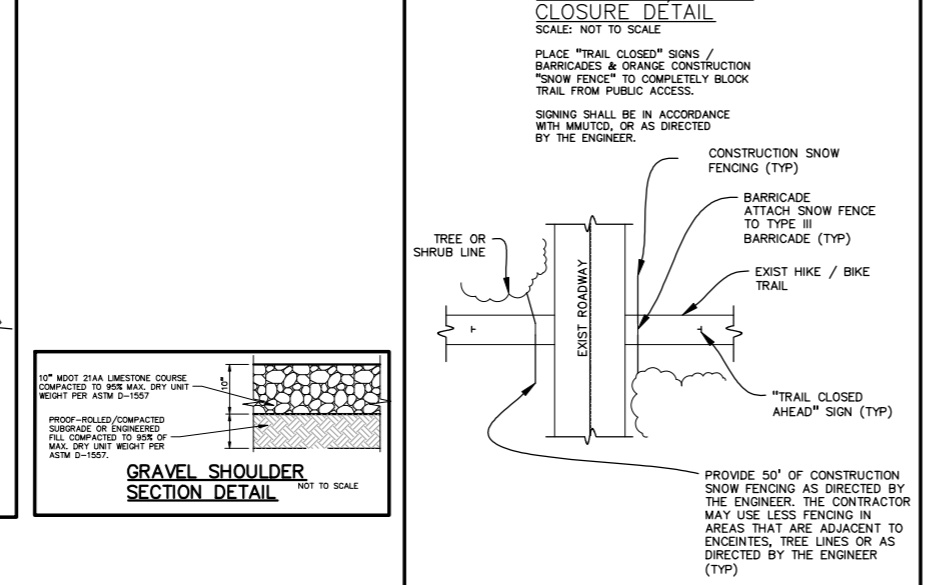
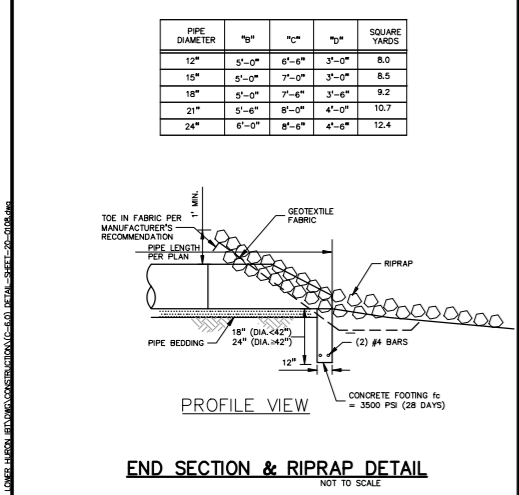
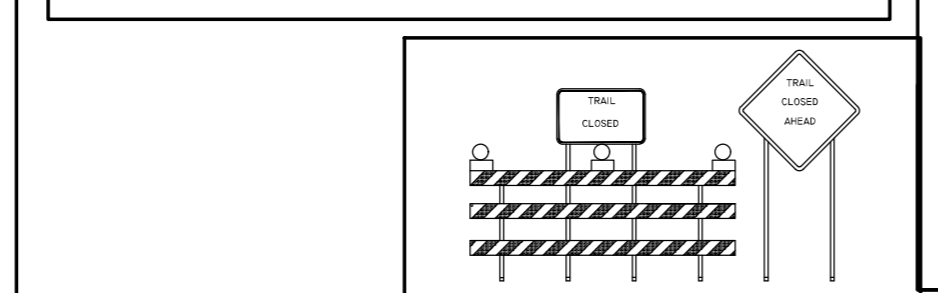
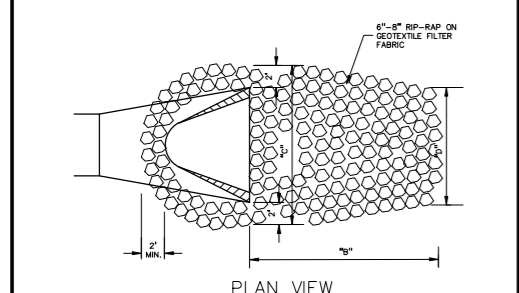
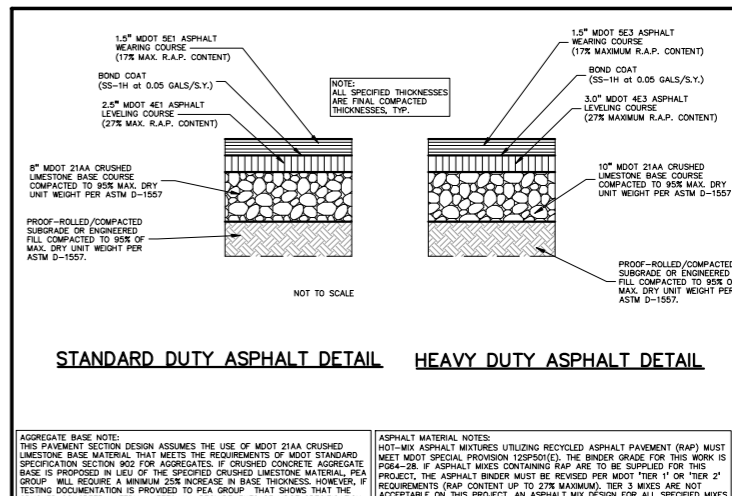
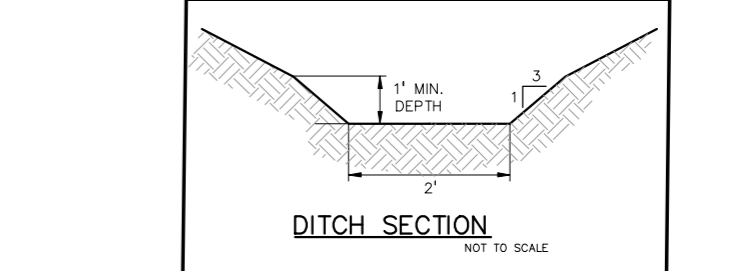
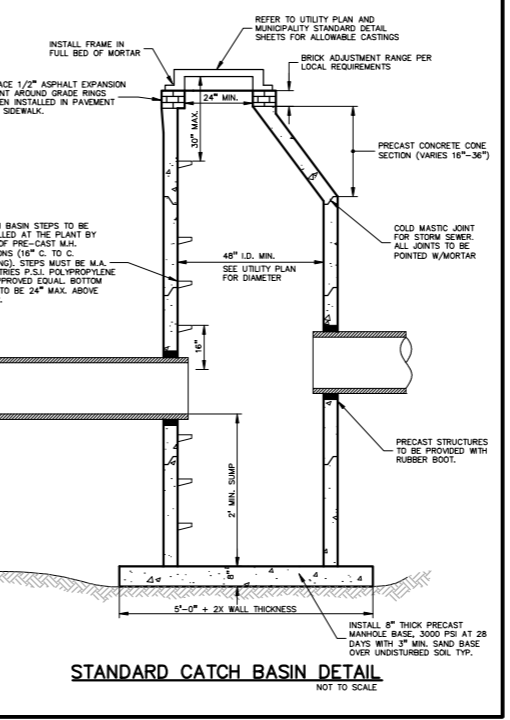
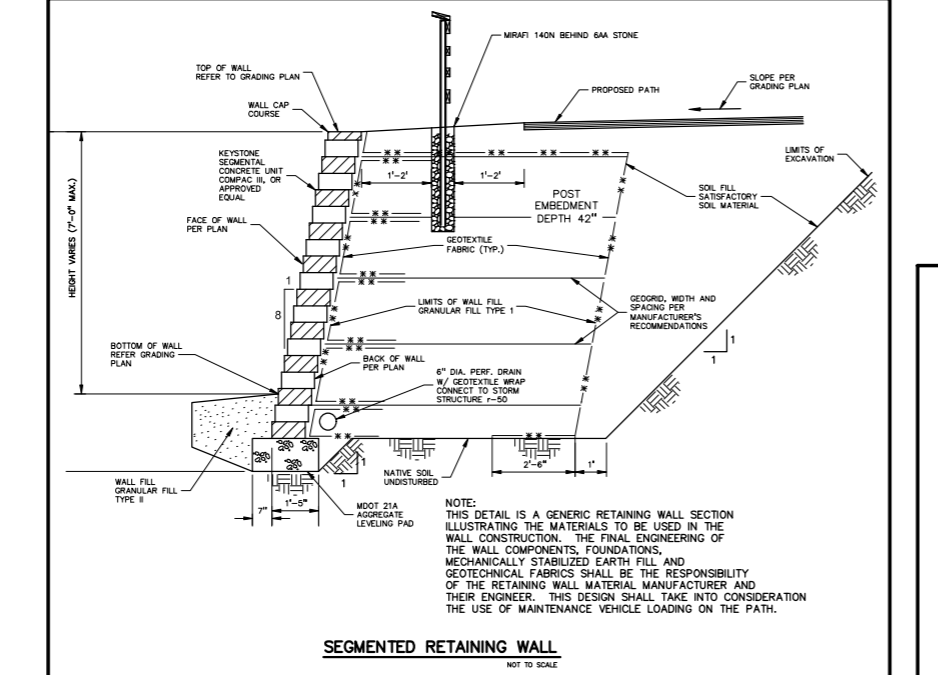
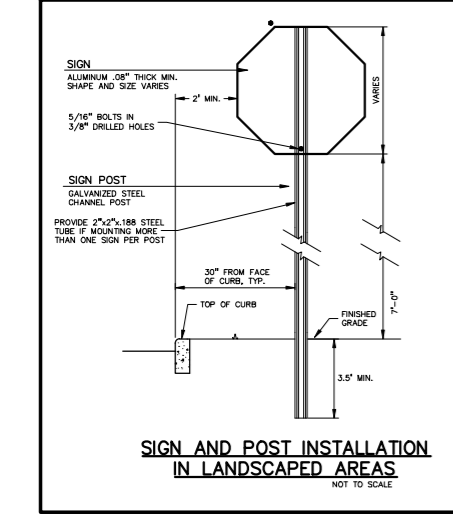
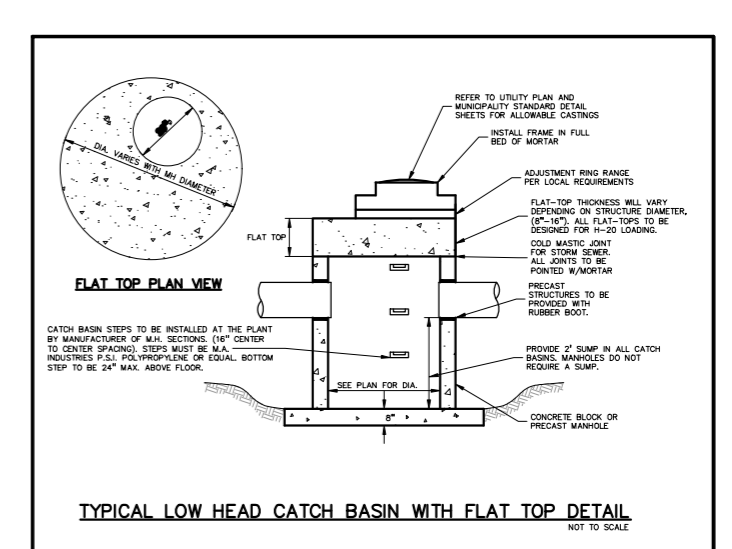
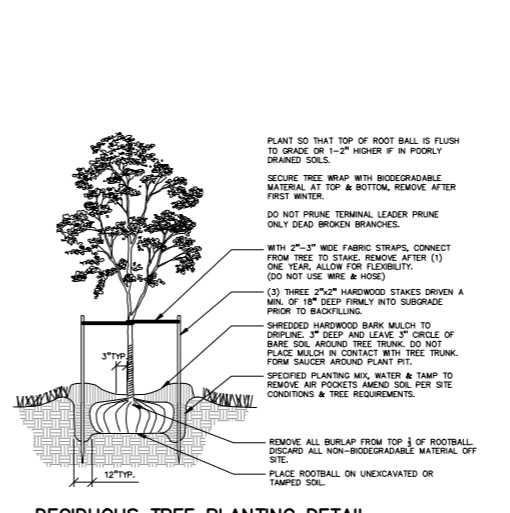
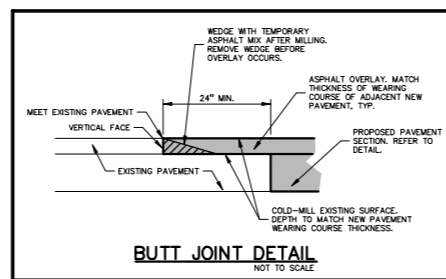
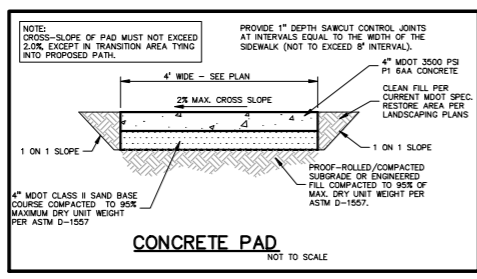
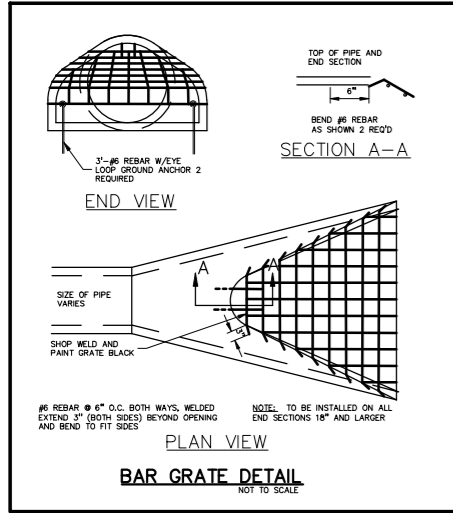
PER CLIENT	9-28-21
PER BP	12-9-21
PER BP	1-4-22
PER CLIENT	1-20-22

ORIGINAL ISSUE DATE:
 AUGUST 5, 2021

DRAWING TITLE
GRADING AND SESC PLAN

PEA JOB NO. 2021-0108
 P.M. JS
 DN. JMR
 DS. JMR
 DRAWING NUMBER:

NOT FOR CONSTRUCTION **C-4.5**



CLIENT
HURON CLINTON METROPARKS
13000 HIGH RIDGE DRIVE
BRIGHTON, MICHIGAN 48114

PROJECT TITLE
LOWER HURON IRON BELLE TRAIL EXTENSION
LOWER HURON METRO PARK
PART OF THE SOUTH 1/2 OF SECTION 24
VAN BUREN TWP., WAYNE COUNTY, MICHIGAN

REVISIONS

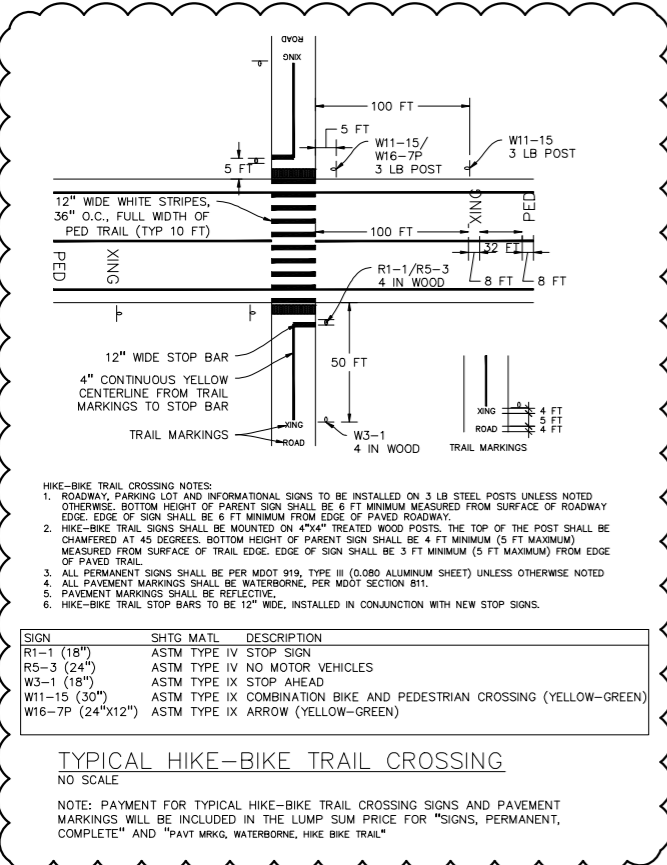
PER CLIENT	9-28-21
PER BP	12-9-21
PER BP	1-4-22
PER CLIENT	1-20-22

ORIGINAL ISSUE DATE:
AUGUST 5, 2021

DRAWING TITLE
DETAIL SHEET

PEA JOB NO. 2021-0108
P.M. JS
DN. JMR
DES. JMR
DRAWING NUMBER:

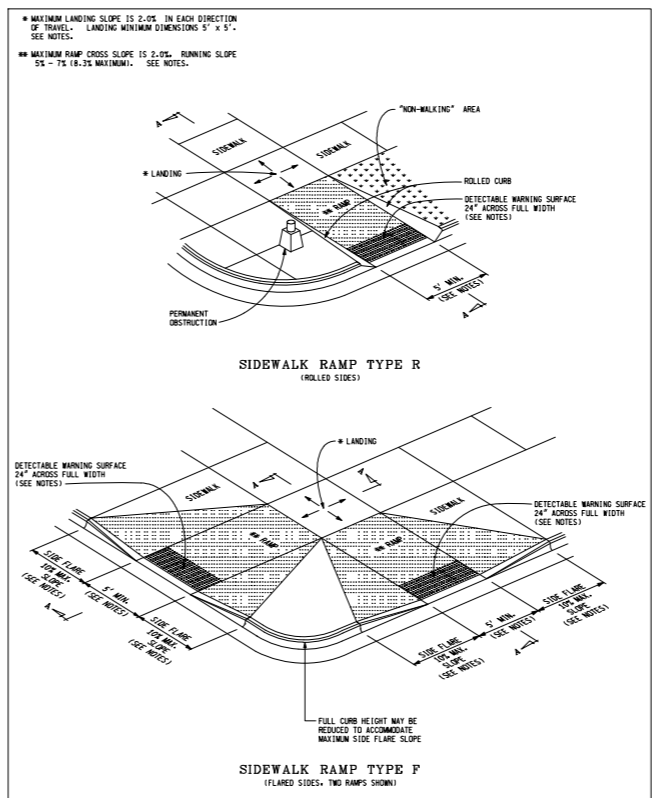
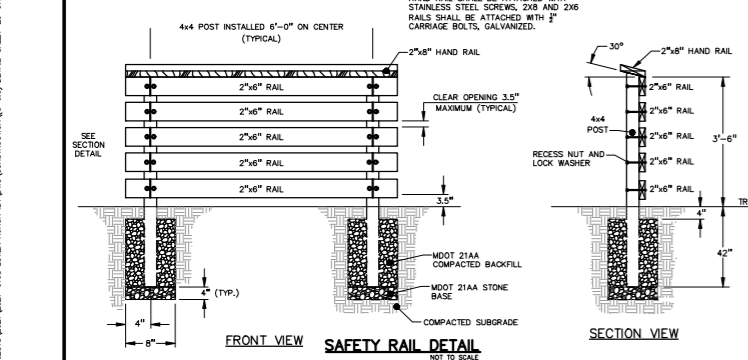
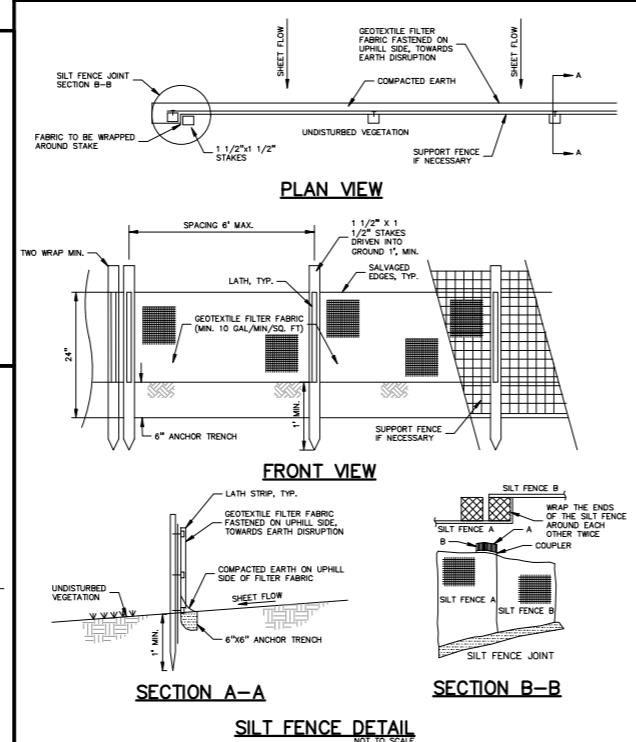
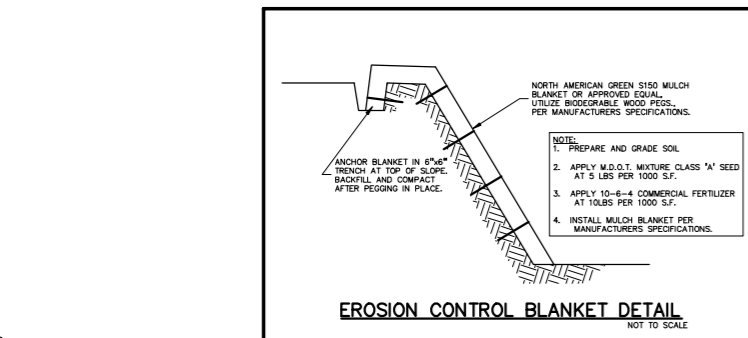
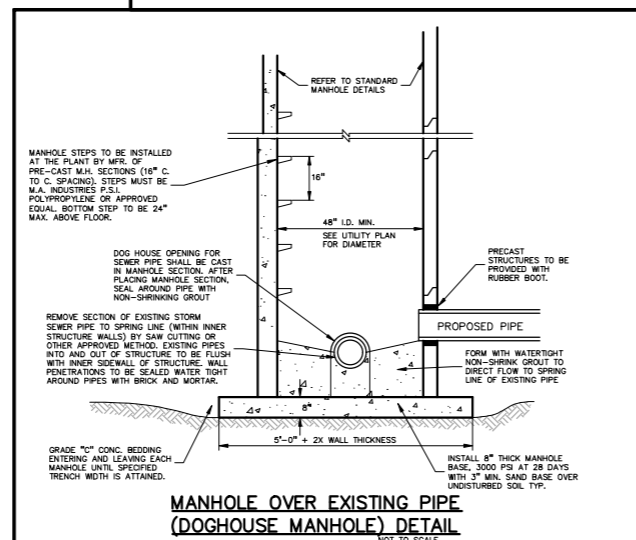
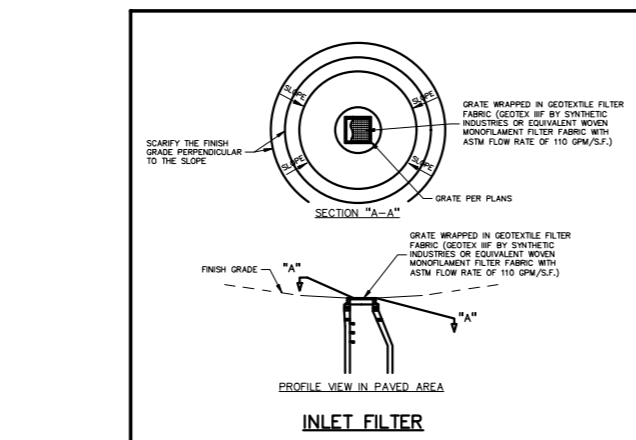
C-6.1



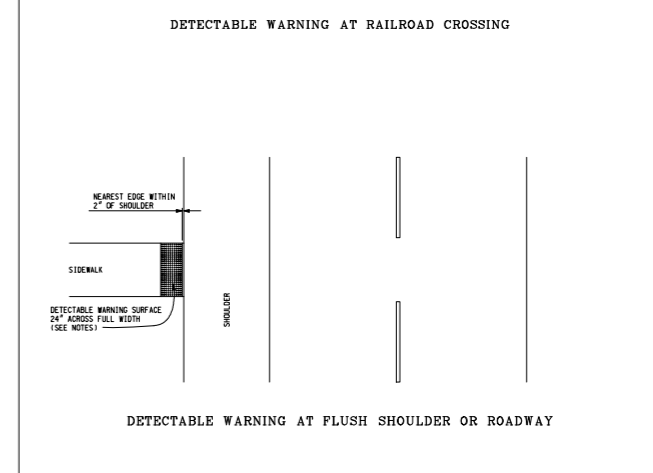
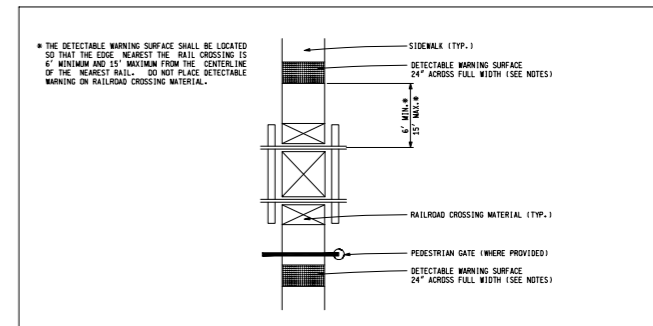
Encroachment 1 - Typical Detail (see noted signs)

ENCROACHMENT 1 - TYPICAL DETAIL (SEE NOTED SIGNS)

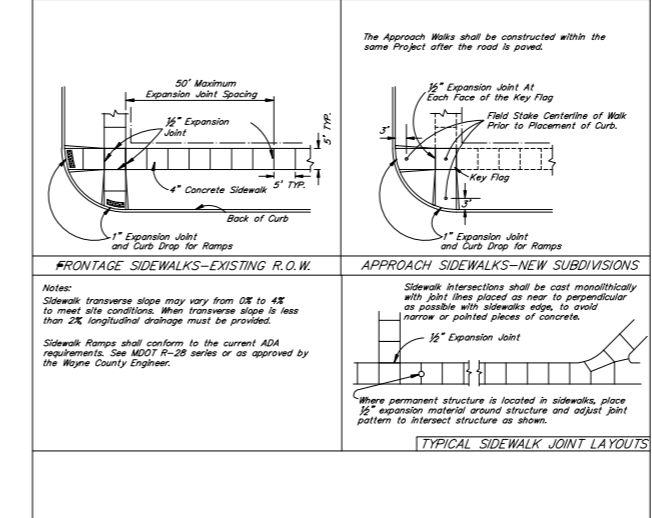
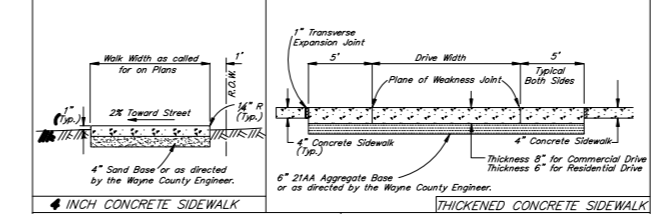
SIGN	SHTG MATL	DESCRIPTION
R1-1 (18")	ASTM TYPE IV STOP SIGN	
R5-3 (24")	ASTM TYPE IV NO MOTOR VEHICLES	
W3-1 (18")	ASTM TYPE IX STOP AHEAD	
W11-15 (30")	ASTM TYPE IX COMBINATION BIKE AND PEDESTRIAN CROSSING (YELLOW-GREEN)	
W16-7P (24"x12")	ASTM TYPE IX ARROW (YELLOW-GREEN)	



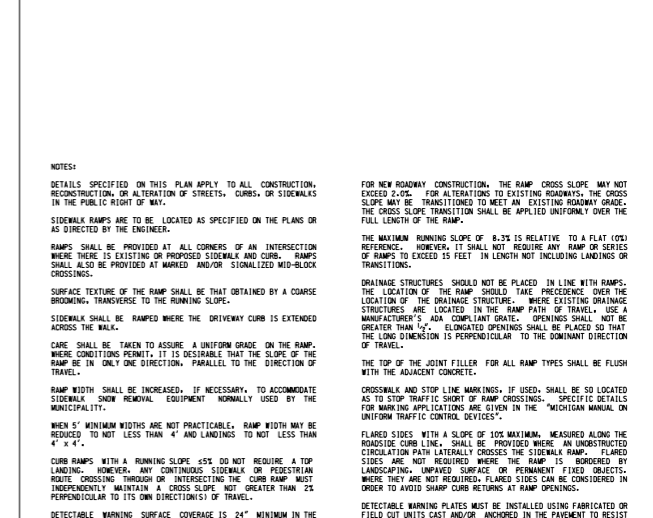
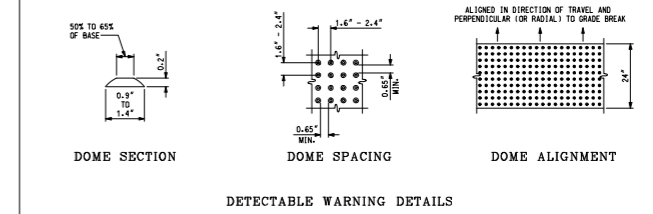
DESIGNED BY: J.S.L.L.	APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT	DATE: 7-26-2019	PLN DATE: R-28-J	SHEET: 1 OF 1
------------------------------	---	------------------------	-------------------------	----------------------



DESIGNED BY: J.S.L.L.	APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT	DATE: 7-26-2019	PLN DATE: R-28-J	SHEET: 5 OF 7
------------------------------	---	------------------------	-------------------------	----------------------



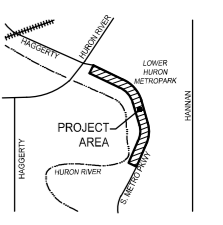
REVISION DATE: 08/01/07	SCALE: NOT TO SCALE
DESIGNED BY: J.S.L.L.	APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT
DATE: 7-26-2019	PLN DATE: R-28-J
SHEET: 1 OF 1	



DESIGNED BY: J.S.L.L.	APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT	DATE: 7-26-2019	PLN DATE: R-28-J	SHEET: 1 OF 1
------------------------------	---	------------------------	-------------------------	----------------------



CAUTION!
THE LOCATION AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THIS DRAWING AND ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF ANY INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.



CLIENT
HURON CLINTON METROPARKS
13000 HIGH RIDGE DRIVE
BRIGHTON, MICHIGAN 48114

PROJECT TITLE
LOWER HURON IRON BELLE TRAIL EXTENSION
LOWER HURON METRO PARK
PART OF THE SOUTH 1/2 OF SECTION 24
VAN BUREN TWP., WAYNE COUNTY, MICHIGAN

REVISIONS	
PER CLIENT	9-28-21
PER BP	12-9-21
PER BP	1-4-22
PER CLIENT	1-20-22

ORIGINAL ISSUE DATE:
AUGUST 5, 2021

DRAWING TITLE
DETAIL SHEET

PEA JOB NO.	2021-0108
P.M.	JS
DN.	JMR
DES.	JMR

DRAWING NUMBER:
C-6.2

EXHIBIT C

Excavation Specific Requirements

1. No excavation or construction activity will be permitted in the vicinity of a pipeline until all appropriate communications have been made with BP's field operations and the Right-of-Way Department. A formal engineering assessment may be required.
2. There shall be no excavation or backfilling within the pipeline right-of-way for any reason without a representative of BP on site giving permission.
3. In some instances, excavation and other construction activities around certain pipelines can be conducted safely only when the pipeline operating pressure has been reduced. Contractors are therefore cautioned that excavation which exposes or significantly reduces the cover over a pipeline may have to be delayed until the reduced operating pressures are achieved.

General Construction Activities

1. The contractor shall not be permitted to transport construction materials or equipment longitudinally over the pipeline.
2. Where it is necessary for construction equipment (*i.e.*, tractors, backhoes, dump trucks, etc.) or equipment transporting construction materials to cross the pipeline, the crossing of the pipeline right-of-way shall be at, or as near to, a 90° angle as is feasible.
3. To gain access to the job site, the contractor shall submit a plan indicating where construction equipment will cross the pipeline, along with the depth of the pipe at the crossings, any proposed ramping over the pipeline, together with the following specifications for the equipment: type and weight of equipment; for track equipment – track width and length; for wheeled equipment – number of axles (single or tandem axles). BP will perform a stress factor calculation to determine if the equipment can safely cross the pipeline. If crossing of the pipeline is allowed, special measures may need to be taken to ensure the integrity of the pipeline.
4. No track type construction equipment shall be permitted to pivot or turn directly over the top of the pipeline.
5. A scraper or pan type tractor shall not be used for removal of soil within ten feet (10') of the centerline of the pipeline. Rubber tire or small track type equipment is an acceptable alternative.
6. A sheepsfoot roller shall not be used for compaction purposes within five feet (5') or directly above the centerline of the pipeline.
7. No vibratory rollers shall be used within three feet (3') of the centerline of the pipeline until the compacted cover over the pipeline has reached a depth of three and one-half feet (3 ½').



BP Pipelines (North America) Inc.
30 South Wacker Drive
Suite 900
Chicago, IL 60606

April 19, 2022

Huron – Clinton Metropolitan Authority
Attn: Mike Henkel
13000 High Ridge Drive
Brighton, MI 48114
Mike.Henkel@metroparks.com
810-494-6057

Re: Lower Huron Iron Belle Trail Extension – dated 08-05-2021 (revised on 01-20-2022)
BP File No. 4005-0933 / BP Ref. No. 13234

Dear Mr. Henkel:

BP Pipelines (North America) Inc. (hereafter referred to as BP) has reviewed the Subject drawing for the proposed trail extension in Belleville, Michigan, for Huron – Clinton Metropolitan Authority and prepared by PEA Group, and has approved the plans with respect to the 10” Whiting – River Rouge Pipeline (hereafter referred to as the BP pipeline), subject to the following terms:

1. 811, the national One Call number, must be contacted, per your state requirements, prior to any excavation within twenty-five feet (25') of the pipeline.
2. In addition to the “One Call”, BP’s Damage Prevention Specialist, Brent Morse (810) 588-3425, shall be contacted at least 48 hours prior to any activities within twenty-five feet (25') of the BP pipeline and must be present prior to commencing work or moving equipment within BP pipeline rights of way. In the event Brent cannot be reached, please contact Greg Chevalier at (812) 455-0279 48 hours prior to undertaking any activities within the pipeline right of way.
3. A copy of this letter must be onsite at all times, and all construction workers and equipment operators must be made aware of the requirements herein. Failure to have a copy of this letter onsite may result in a stop work order until the construction team is made aware of the terms and conditions set forth in this Approval Letter.
4. If the BP Damage Prevention Specialist, in his/her sole discretion, determines that Huron – Clinton Metropolitan Authority activities could result in damage to the pipeline, such Damage Prevention Specialist will notify Huron – Clinton Metropolitan Authority, and/or their operator or contractor. Huron – Clinton Metropolitan Authority herein acknowledges that the BP Damage Prevention Specialist shall have full authority to stop any of Huron – Clinton Metropolitan Authority’s excavation or construction related activities in close proximity to the BP pipeline if, in the BP Damage Prevention Specialist’s sole opinion, Huron – Clinton Metropolitan Authority activities could result in damage to the BP pipeline.
5. Encroachment 1 – Sheets C-2.5, C-3.5, C-4.5 and C-6.2 – Huron – Clinton Metropolitan Authority has proposed construction of a concrete sidewalk that involves the sawcutting and removal of the edge of a permanent asphalt road, South Metro Parkway, crossing above the BP pipeline to provide a straight edge for the proposed sidewalk.
 - a. Prior to any pavement or concrete removal, the contractor’s removal methodology shall be provided to BP. Depending on the methodology, removal may be limited in the area of the

- pipeline, i.e. if a hammer method is to be used, it shall not be allowed within ten feet (10') of the pipeline.
- b. BP requires seismic monitoring for any hammering/vibratory activities occurring around the pipeline. If such activities are to occur, a monitoring plan shall be submitted to BP for review and approval a minimum of ten (10) working days prior to proposed work. Monitoring shall be performed at the cost of Huron – Clinton Metropolitan Authority.
 - c. Pavement within twenty-five feet (25') of the pipeline shall be removed by milling.
 - d. The sidewalk shall cross the pipeline at as close to a 90 degree angle as is feasible, and no crossing less than 45 degrees will be permitted (proposed 49°).
 - e. Refer to the terms outlined in Item 8 of this approval letter for additional procedures that apply to this encroachment.
6. Encroachment 2 – Sheet C-2.5 – Huron – Clinton Metropolitan Authority has proposed the removal of trees, shrubs and brush located along the west side of South Metro Parkway and above the BP pipeline via scraping and excavation. Immediately above the BP pipeline, Huron – Clinton Metropolitan Authority expects to only encounter topsoil and grass which will be replaced.
 - a. Tree removal within twenty-five feet (25') of the pipeline must be done under BP direction. Tree stumps will not be removed within twenty-five feet (25') of the pipeline (stump grind only) and may require a BP approved contractor at BP's discretion.
 - b. The slope of excavation adjacent to the pipeline shall be at a minimum slope of 1-1/2:1.
 - c. Refer to the terms outlined in Item 8 of this approval letter for additional procedures that apply to this encroachment.
 7. Encroachment 3 – Sheets C-3.5, C-4.5 and C-6.1 – Huron – Clinton Metropolitan Authority has proposed construction of an asphalt path with added grade along South Metro Parkway crossing above the BP pipeline.
 - a. The path shall cross the pipeline at as close to a 90 degree angle as is feasible, and no crossing less than 30 degrees will be permitted (proposed 37°).
 - b. No more than 0.3' of cover shall be added above the pipeline.
 - c. Refer to the terms outlined in Item 8 of this approval letter for additional procedures that apply to this encroachment.
 8. The following procedures apply to multiple encroachments as noted below:
 - a. Encroachments 1, 2, 3 – No excavation or backfilling will be permitted within the pipeline rights of way without the BP Damage Prevention Specialist onsite.
 - b. Encroachments 1, 2, 3 – Prior to any earth disturbance, the pipeline depth of cover shall be confirmed by the BP Damage Prevention Specialist.
 - c. Encroachments 1, 2, 3 – A minimum of two feet (24") of undisturbed soil shall be maintained above the pipeline. Anything less would be considered a scope change and require further review/approval by BP, and if approved, any excavation within two feet (24") of the pipeline shall be done by hand.
 - d. Encroachments 1, 3 – Backfilling over the pipeline shall be as per the following:
 - i. Two layers of geotextile material (Johns Manville Spunbound polyester Type 011/250 or similar) shall be placed beneath any permanent aggregate material below the sidewalk, extending for a minimum of ten feet (10') to either side of the pipeline.
 - ii. Acceptable good quality flowable fill (not to exceed a strength of 100 psi) shall be used to backfill up to the base of the pavement layer and will extend for a minimum distance of five feet (5') on either side of the pipeline.
 - e. Encroachments 1, 2, 3 – Land restoration after construction shall not result in any grade reduction above the pipeline.
 9. There shall be no storage of material (i.e. excavation spoils) or equipment over the BP pipeline without prior written approval.

10. Should silt fence placement be required close to or over the pipeline, the BP Damage Prevention Specialist shall be contacted first in order to approve placement of the stakes (a minimum of five feet (5') from the pipeline) and flag the location of the pipeline.
11. Should project sign placement be required close to or over the pipeline, the BP Damage Prevention Specialist shall be contacted first in order to approve placement of the sign posts (a minimum of five feet (5') from the pipeline) and flag the location of the pipeline.
12. If applicable, all BP signage, vent pipes and test stations shall be protected during construction. Should any of these need relocation due to construction, this work shall only be performed by or under the supervision of the BP Damage Prevention Specialist.
13. The following equipment inventory list was submitted for approval to cross BP's pipeline:
 - a. Caterpillar 430 Backhoe
 - b. Caterpillar CB4.0 Vibratory Roller
 - c. Hamm HP180i Pneumatic Roller
 - d. Caterpillar CW16-9 Pneumatic Roller
 - e. Caterpillar CW16-11 Pneumatic Roller
 - f. Hitachi CS 125 Static Smooth Drum Roller
 - g. Sakai R2-1 Static Smooth Drum Roller
 - h. Dynapac CS142 Static Smooth Drum Roller
 - i. Hamm HD 14 VO Vibratory Smooth Drum Roller
 - j. Caterpillar 420 Backhoe Loader
 - k. Caterpillar CB 15 Vibratory Smooth Drum Roller
 - l. Ford F350 Truck
 - m. Ford F750 Truck
 - n. Caterpillar D4 Bulldozer
 - o. Caterpillar AP 1055F Paver
 - p. Caterpillar 321D Excavator
 - q. Caterpillar D1 Small Dozer
14. The above equipment inventory list has been approved subject to the following requirements:
 - a. Areas of crossing shall be clearly defined by the BP Damage Prevention Specialist and kept to a minimum.
 - b. The pipeline shall be clearly flagged, and safety fence or silt fence shall be utilized to prevent accidental/unauthorized equipment crossings.
 - c. The BP Damage Prevention Specialist shall confirm proper depth of cover exists at the crossing location prior to the start of construction/crossing the BP pipeline.
 - d. The equipment shall only cross the BP pipeline at the proposed crossing locations with a minimum depth of cover to top of pipeline of 3.5'.
 - e. One layer of geotextile material (Johns Manville Spunbound polyester Type 011/250 or similar) shall be placed beneath any additional fill and existing grade.
 - f. Equipment must cross the pipeline rights of way at as near to a 90° angle as is feasible.
 - g. No equipment shall operate over the pipeline longitudinally.
 - h. No track type equipment shall be permitted to pivot or turn directly over the top of the pipeline.
 - i. A scraper or pan type tractor shall not be used for removal of soil within ten feet (10') of the centerline of the pipeline. Rubber tire or small track type equipment is an acceptable alternative.
 - j. A sheepsfoot roller shall not be used for compaction purposes within five feet (5') or directly above the centerline of the pipeline.
 - k. No vibratory rollers shall be used within three feet (3') of the centerline of the pipeline until the compacted cover over the pipeline has reached a depth of three and one-half feet (3 ½').

15. As-builts of the proposed construction in the vicinity of the BP pipeline shall be submitted to BP within 12 months after construction is completed.

Should your design require a field change in the vicinity of the BP pipeline, Brent Morse must be contacted and approve any revisions prior to actuating the changes in the field.

Best regards,

A small, rectangular image showing a handwritten signature in black ink on a light-colored background. The signature is cursive and appears to read "Tyler Shane".

Tyler Shane
BP Engineering



To: Board of Commissioners
 From: Mike Henkel, Chief of Engineering Services
 Project No: 502-21-697
 Project Title: Affirmation – Change Order, Accessible Launch
 Project Type: Capital Improvement
 Location: Lake St. Clair Metropark
 Date: November 4, 2022

Action Requested: Motion to Affirm

That the Board of Commissioners (1) affirm a change order for the construction of the Accessible Launch at Lake St. Clair contract 502-21-697 in the amount of \$45,841.58; and (2) authorize a funds transfer from Fund Balance to cover additional construction costs as recommended by Chief of Engineering Services Mike Henkel and staff.

Fiscal Impact: The total Board approved project cost from the June 9, 2022 meeting \$525,513.61. A portion of the project cost is reimbursable through grant funding in the amount of \$194,863.00. To date, total change orders represent approximately 8.7 percent of the original project cost.

Background: The following is a list of the project accumulated change orders considering additions and deductions to the current contract. The change orders and extras are due to a shortage in the plan quantity for earth excavation, added work to repair the sidewalk by the Activities Center, additional pavement needed to match an existing deteriorated asphalt, undercutting and geotextile fabric to response to encountered poor soil conditions, removal of buried footings, and the removal of a large stumps in the project area. The contractor’s portion of the project is targeted to be complete late November. Per policy change order aggregate amounts greater than \$25,000 require action by the Board.

Previous Change orders and Extra paid

Change order #	Item	Add/Deduct	Description
Item #8	Excavation, Earth	8,695.00	Removal of some poor soils, also extra quantity was need over plan quantity.
Item #13	Reinf. Conc.,6 inch	2,281.60	Extra concrete work to replace sidewalk by the Activities Center from a previous park repaired sewer line. Also increased handicap parking spot to accommodate new guidelines.
Item #14	Aggregate, Kayak Launch	126.23	Extra quantity needed
Item #11	HMA 4E1	398.20	Extra quantity needed.
Item #12	HMA 5E1	9,954.00	Additional material was needed to pave the butt joint at the existing edge which was in poor condition.

Item #24	Detectable Warning	858.00	To accommodate the existing curve of the crosswalk.
Extra Item 1	Separation Fabric	1,833.15	Geotextile separator was needed under the HMA path due to poor soil condition
Extra Item 2	Butt Joint at existing edge	3,575.00	Existing HMA edge along the new HMA path was in poor condition.
Item #3	Erosion Control, Silt Fence	-3,750.00	Full plan quantity not needed
Item #6	Erosion Control, Gravel Dr	-1,850.00	Full plan quantity not needed

\$22,121.18 Total Paid to date

Upcoming Change Orders and Extras

Change order #	Item	Add/Deduct	Description
Item #8	Excavation, Earth	17,625.00	Shortage in plan quantity for parking lot alterations and walkways
Item #13	Reinf. Conc.,6 inch	2,272.40	Extra needed
Extra Item 1	Removal of Stumps and concrete	3,823.00	Stumps from trees that in the handicap parking area needed to be removed by a large excavator that the contractor had to rent. Buried old concrete foundations from the sewage treatment settling fields that needed to be removed.

\$23,720.40 Total of Upcoming Change order/ Extras

\$45,841.58 Total Change Orders and Extra's



To: Board of Commissioners
From: Mike Henkel, Chief of Engineering Services
Project No: 716-21-018RR
Project Title: Bids – Golf Course Building Roof Replacement
Project Type: Major Maintenance
Location: Huron Meadows Metropark
Date: October 7, 2022

Bids Received: September 29, 2022

Action Requested: Motion to Approve

That the Board of Commissioners (1) award Contract No. 716-21-018RR to the low responsive, responsible bidder, Weatherseal Home Improvements, Co. Inc. in the amount of \$83,270; and (2) authorize staff to transfer \$8,270 from the Lower Huron Unallocated account to cover the added cost as recommended by Chief of Engineering Services Mike Henkel and staff.

Fiscal Impact: The project was budgeted for \$75,000 and is \$8,270 over budget.

Scope of Work: The work includes furnishing all labor, equipment, and materials necessary to remove and replace existing shingles, underlayment, ridge vents, trim boards and flashing.

Background: The project will replace the roof on the existing golf starter building and attached cart storage barn. The roof was last shingled in 1999; the shingles need to be replaced as well as modifications to the existing flashing. Park staff has had to coordinate ongoing repairs and leaks. This is the third time in rebidding this work.

<u>Contractor</u>	<u>City</u>	<u>Amount</u>
Weatherseal Home Improvements, Co. Inc.*	Shelby Twp.	\$83,270.00

Budget Amount for Contract Services	\$75,000.00
- Lower Huron unallocated account	<u>\$ 8,270.00</u>
	\$83,270.00

Work Order Amount	
- Contract Amount - Weatherseal Home Improvements, Inc.	\$ 83,270.00
- Contract Administration	<u>\$ 8,000.00</u>
o Total Proposed Work Order Amount	\$ 91,270.00

() Only one bid was received.*

This project was reported and publicly advertised in the following construction reporting outlets: MITN, Construction Association of Michigan, Reed Construction Data, Construction News Corporation, Construction

News Service, HCMA Website, Builders Exchange of Michigan, McGraw Hill Dodge, Builders Exchange of Lansing and Central Michigan.

The following contractors reviewed the project but did not submit a bid.

Organization Name	City
<i>Renaissance Contracting & Roofing</i>	<i>Redford</i>
<i>CEI Michigan LLC</i>	<i>Hamburg</i>
<i>Weatherseal Home Improvements Co, Inc.</i>	<i>Shelby Twp,</i>
<i>JDCandler Roofing Company, Inc.</i>	<i>Livonia</i>
<i>QTO Solutions</i>	<i>Detroit</i>
<i>STORMSHIELD ROOFING</i>	<i>Lansing</i>
<i>ILO Services</i>	<i>Webberville</i>
<i>White Pine Building and Development LLC</i>	<i>Shelby Township</i>
<i>School Wholesale Supplies LLC</i>	<i>Nashville</i>
<i>North America Procurement Council, Inc. PBC</i>	<i>Grand Junction</i>
<i>KAB ENTERPRISES, INC.</i>	<i>Lincoln Park</i>
<i>L.G.K Building Inc.</i>	<i>Bloomfield Hills</i>
<i>Total Control LLC</i>	<i>Livonia</i>
<i>Premier Builder, Inc.</i>	<i>Clinton Township</i>
<i>Bernco, Inc.</i>	<i>St. Clair Shores</i>
<i>Holbrook's Roofing Company Inc.</i>	<i>Trenton</i>
<i>Great Lakes Roofing, Inc.</i>	<i>Troy</i>
<i>butcher & butcher construction</i>	<i>Rochester Hills</i>
<i>Shreevastava Inc.</i>	<i>Bhagalpur</i>
<i>Presidential Construction Inc.</i>	<i>Detroit</i>



To: Board of Commissioners
From: Amy McMillan, Director
Subject: Approval – 2023 Fees and Charges
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the 2023 Fees and Charges as recommended by Director Amy McMillan and staff.

Background: Staff is recommending no changes to fees and charges for 2023.

Attachment: 2023 Proposed Fees and Charges

2023 Fees and Charges - Lake St. Clair

	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Joint Permit w/Oakland County Parks	\$64.00	\$64.00	\$64.00	\$64.00
Boat Permit				
Annual	\$35.00	\$35.00	\$35.00	\$35.00
Non-Resident	\$40.00	\$40.00	\$40.00	n/a
Senior Citizen	\$24.00	\$24.00	\$24.00	\$24.00
Non-Resident	\$29.00	\$29.00	\$29.00	n/a
Annual Permit / Boat Permit Combo	\$75.00	\$75.00	\$70.00	\$70.00
Annual Permit / Boat Permit Combo (Non-Resident)	\$80.00	\$80.00	\$80.00	n/a
Senior Annual Permit / Boat Permit	\$53.00	\$53.00	\$48.00	\$48.00
Senior Annual Permit/Boat Permit Combo (Non-Res)	\$58.00	\$58.00	\$58.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Marina (daily, weekends, holiday w/utilities)				
Sea wall (no utilities, 10am - 10pm)	\$10.00	\$10.00	\$10.00	\$10.00
Overnight (no utilities, 10am - 10pm)	\$10.00	\$10.00	\$10.00	\$10.00
Sanitary pump-out service	\$15.00	\$15.00	\$15.00	\$15.00
Trackless Train (1-1/4 mile ride)				
Round-trip	Free	Free	Free	Free
Children 15 & under	Free	Free	Free	Free
Swimming Pool (includes use of bathhouse)				
All ages	\$5.00	\$5.00	\$5.00	\$5.00
Children under 30" tall	Free	Free	Free	Free
Coin-operated lockers	\$0.50	\$0.50	\$0.50	\$0.50
Golf Course - Par 3 / Foot Golf				
Regular (Weekdys)	\$8.00	\$8.00	\$8.00	\$8.00
Sr. Citizens and Jrs (20 and under) (Weekdys)	\$6.00	\$6.00	\$6.00	\$6.00
Regular (Wknds. & Hol.)	\$10.00	\$10.00	\$10.00	\$10.00
Sr. Citizens and Jrs (20 and under) (Wknds. & Hol.)	\$8.00	\$8.00	\$8.00	\$8.00
Golf balls	current market price			
Club rental	\$2.00	\$2.00	\$2.00	\$2.00
Adventure Golf				
Adults	\$5.00	\$5.00	\$5.00	\$5.00
Sr. Citizens and children under 11	\$4.00	\$4.00	\$4.00	\$4.00
Children 3 and under	Free	Free	Free	Free

2023 Fees and Charges - Lake St. Clair

	2023	2022	2021	2020
Interpretive Program Fees				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Scout Programs				
Per scout (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Special Events				
Adults/Children (minimum fee)	\$2.00	\$2.00	\$2.00	\$2.00
Group Programs In Park				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Parents/Teachers/Chaperones	Free	Free	Free	Free
Group Programs Out of Park				
One program	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Building/Classroom rental				
Day (2 hour minimum)	\$50/hour	\$50/hour	\$50/hour	\$50/hour
All day	\$300.00	\$300.00	\$300.00	\$300.00
Evening (2 hour minimum)	\$100.00	\$100.00	\$100.00	\$100.00
Evening after first 2 hrs (each additional hour)	\$75.00	\$75.00	\$75.00	\$75.00
Out of Five County Interpretive School Programs				
Group Programs In Park				
Per student, one hour program	\$4.00	\$4.00	\$4.00	\$4.00
Per student, two or more hour program	\$7.00	\$7.00	\$7.00	\$7.00
Group Program Out of Park				
One program , plus IRS mileage rate (max. 60 mile radius from park)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Mobile Learning Center Special Events				
One day event	\$425.00	\$425.00	\$425.00	\$425.00
Additional days (per day)	\$175.00	\$175.00	\$175.00	\$175.00
Voyageur Canoe				
All ages	\$5.00	\$5.00	\$5.00	\$5.00
Group rate (maximum 20 persons)	\$75/hour	\$75/hour	\$75/hour	\$75/hour
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservations				
Picnic shelter reservation (24'x36' - 12 tables)	\$200.00	\$200.00	\$200.00	\$200.00
Seawall shelter (30'x54' - 20 tables)	\$225.00	\$225.00	\$225.00	\$225.00
Par 3 shelter (40'x87' - 44 tables)	\$400.00	\$400.00	\$400.00	\$400.00
Pointe Gazebo (with Activity Center rental)	\$125.00	\$125.00	\$125.00	\$125.00
Pointe Gazebo	\$200.00	\$200.00	\$200.00	\$200.00

2023 Fees and Charges - Lake St. Clair

	2023	2022	2021	2020
Activity Center Rental				
Sunday - Thursday	\$1,700.00	\$1,700.00	\$1,700.00	\$1,700.00
Friday/Saturday/holidays	\$2,200.00	\$2,200.00	\$2,200.00	\$2,200.00
Security Deposit	\$500.00	\$500.00	\$500.00	\$500.00
Event Fee				
Runs/Meetings etc.	\$800.00	\$800.00	\$800.00	\$800.00
Security Deposit	\$500.00	\$500.00	\$500.00	\$500.00
Miscellaneous Charges				
ADA Cart Rental (\$20 deposit)	\$5/hour	\$5/hour	\$5/hour	\$5/hour
Wagon Rental (\$20 deposit)	\$10/day	\$10/day	\$10/day	\$10/day
Equipment Rental	\$2.00	\$2.00	\$2.00	\$2.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Wolcott Mill

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident (Senior)	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Interpretive Program Fees				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Group Programs Onsite				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Group Programs Outreach				
One program (additional staff charges may apply)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Commercial Advertising Fee				
Daily - two hour minimum (<i>by appointment only</i>)	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservations				
Standard Shelter (9am - 5pm)	\$150.00	\$150.00	\$150.00	\$150.00
Gazebo (Historic Center) - Includes Wedding Area	\$350.00	\$350.00	\$350.00	\$350.00
Event Fee (charge no less than \$350; subject to venue agreement)				
1 day	\$350.00	\$350.00	\$350.00	\$350.00
2 days	\$450.00	\$450.00	\$450.00	\$450.00
Camp Rotary Activities Building (holds up to 120 people)				
Monday - Thursday (9am - 9pm)	\$450.00	\$450.00	\$450.00	\$450.00
Friday, Saturday, Sunday (9am - midnight)	\$500.00	\$500.00	\$500.00	\$500.00
Pavilion	\$225.00	\$225.00	\$225.00	\$225.00
Pavilion if rented with Activities bldg.	\$100.00	\$100.00	\$100.00	\$100.00
Shorian Lodge				
Weekend rates (single nights available at 1/2 rate)	\$220.00	\$220.00	\$220.00	\$220.00
Tent Camping (Organized Youth Groups only)				
First day/night (maximum 15 campers per site)	\$25/night	\$25/night	\$25/night	\$25/night
Out of Five County Interpretive School Programs				
Per person (Minimum per group requirement, contact center)	\$4.00	\$4.00	\$4.00	\$4.00
Farm Center Building/Classroom Rental				
Day (2 hour minimum)	\$50/night	\$50/night	\$25/night	\$25/night
All day (9 - 5pm)	\$300.00	\$300.00	\$250.00	\$250.00
Evening (2 hour minimum)	\$100/hr	\$100/hr	\$25/night	\$25/night
Evening after first 2 hrs (each additional hour)	\$75.00	\$75.00	\$250.00	\$250.00
Hayrides				
Children (2 years and under)	Free	Free	Free	Free
Children (3-12 years)	\$3.00	\$3.00	\$3.00	\$3.00
Seniors	\$3.00	\$3.00	\$3.00	\$3.00
Adults	\$5.00	\$5.00	\$5.00	\$5.00
Group Reservation (25 maximum)	\$150.00	\$150.00	\$150.00	\$150.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Stony Creek

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Joint Permit w/Oakland County Parks	\$64.00	\$64.00	\$64.00	\$64.00
Boat Permit				
Annual	\$35.00	\$35.00	\$35.00	\$35.00
Non-Resident	\$40.00	\$40.00	\$40.00	n/a
Senior Citizen	\$24.00	\$24.00	\$24.00	\$24.00
Non-Resident	\$29.00	\$29.00	\$29.00	n/a
Annual Permit / Boat Permit Combo	\$75.00	\$75.00	\$70.00	\$70.00
Annual Permit / Boat Permit Combo (Non-Resident)	\$80.00	\$80.00	\$80.00	n/a
Senior Annual Permit / Boat Permit	\$53.00	\$53.00	\$48.00	\$48.00
Senior Annual Permit/Boat Permit Combo (Non-Res)	\$58.00	\$58.00	\$58.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Boat Storage				
Summer	\$400.00	\$400.00	\$400.00	\$400.00
Winter	\$200.00	\$200.00	\$200.00	\$200.00
Boat Rental				
Rowboat 12' and 14'	\$10/hour	\$10/hour	\$8/hour	\$8/hour
Maximum	\$25.00	\$25.00	\$25.00	\$25.00
Canoes	\$10/hour	\$10/hour	\$10/hour	\$10/hour
Paddleboats - 4 passenger	\$15/hour	\$15/hour	\$15/hour	\$15/hour
Swan / Dragon Pedal Boat	\$17/hour	\$17/hour	\$17/hour	\$17/hour
Kayak - 1 person	\$10/hour	\$10/hour	\$10/hour	\$10/hour
Kayak - 2 person	\$15/hour	\$15/hour	\$15/hour	\$15/hour
Senior Citizen Rate (M-Th)				
Row boat maximum	\$20.00	\$20.00	\$20.00	\$20.00
Cushions and life jackets provided w/rental				
Additional cushion/life jacket rental	\$1.00	\$1.00	\$1.00	\$1.00
Additional cushion/life jacket deposit	\$5.00	\$5.00	\$5.00	\$5.00
Quadzilla Slide				
Single Ride	\$2.00	\$2.00	\$2.00	\$2.00
Daily wristband (unlimited rides)	\$10.00	\$10.00	\$10.00	\$10.00
Disc Golf				
Daily (wristband)	\$3.00	\$3.00	\$3.00	\$3.00
Annual bag tag	\$60.00	\$60.00	\$60.00	\$60.00
Annual Senior (62 & over), Jr. (17 & under) bag tag	\$40.00	\$40.00	\$40.00	\$40.00

2023 Fees and Charges - Stony Creek

Type	2023	2022	2021	2020
Interpretive Program Fees				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Scout Programs				
Per scout (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Special Events				
Adults/Children (minimum fee)	\$2.00	\$2.00	\$2.00	\$2.00
Group Programs In Park				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Parents/Teachers/Chaperones	Free	Free	Free	Free
Group Programs Out of Park				
One program	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Building/classroom rental				
Day (2 hour minimum)	\$50/hour	\$50/hour	\$50/hour	\$50/hour
All day	\$300.00	\$300.00	\$300.00	\$300.00
Evening (2 hour minimum)	\$100.00	\$100.00	\$100.00	\$100.00
Evening after first 2 hrs (each additional hour)	\$75.00	\$75.00	\$75.00	\$75.00
Out of Five County Interpretive School Programs				
Group Programs In Park				
Per student, one hour program	\$4.00	\$4.00	\$4.00	\$4.00
Per student, two or more hour program	\$7.00	\$7.00	\$7.00	\$7.00
Group Program Out of Park				
One program , plus IRS mileage rate (max. 60 mile radius from park)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Mobile Learning Center Special Events				
One day event	\$425.00	\$425.00	\$425.00	\$425.00
Additional days (per day)	\$175.00	\$175.00	\$175.00	\$175.00
Voyageur Canoe				
All ages	\$5.00	\$5.00	\$5.00	\$5.00
Group rate (maximum 20 persons)	\$75/hour	\$75/hour	\$75/hour	\$75/hour
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Rental				
Standard shelter	\$225.00	\$225.00	\$225.00	\$225.00
10.5	\$150.00	\$150.00	\$150.00	\$150.00
Stage Rental				
Per day, in park	\$600.00	\$600.00	\$600.00	\$600.00
Event Fee (\$350; subject to venue agreement)				
1 day	\$350.00	\$350.00	\$350.00	\$350.00
2 days	\$450.00	\$450.00	\$450.00	\$450.00

2023 Fees and Charges - Stony Creek

Type	2023	2022	2021	2020
Family Camping Events (Open Fri - Sun only)				
Per Campsite	\$30/night	\$30/night	\$25/night	\$25/night
Bicycle Rental (1 hour minimum) 10-6pm daily				
26" Men's/women's single speed	\$7/hour	\$7/hour	\$7/hour	\$7/hour
Paddleboard Rental				
Paddleboards	\$12/hour	\$12/hour	\$12/hour	\$12/hour
Cross Country Ski Rental				
Full Set - Adult	\$15.00	\$15.00	\$15.00	\$15.00
Full Set - Youth (under 16)	\$9.00	\$9.00	\$9.00	\$9.00
Skis	\$6.00	\$6.00	\$6.00	\$6.00
Boots	\$6.00	\$6.00	\$6.00	\$6.00
Poles	\$4.00	\$4.00	\$4.00	\$4.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Indian Springs

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Joint Permit w/Oakland County Parks	\$64.00	\$64.00	\$64.00	\$64.00
Interpretive Program Fees				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Scout Programs				
Per scout (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Special Events				
Adults/Children (minimum fee)	\$2.00	\$2.00	\$2.00	\$2.00
Group Programs In Park				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Parents/Teachers/Chaperones	Free	Free	Free	Free
Group Programs Out of Park				
One program	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Out of Five County Interpretive School Programs				
Group Programs In Park				
Per student, one hour program	\$4.00	\$4.00	\$4.00	\$4.00
Per student, two or more hour program	\$7.00	\$7.00	\$7.00	\$7.00
Group Program Out of Park				
One program , plus IRS mileage rate (max. 60 mile radius from park)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Mobile Learning Center Special Events				
One day event	\$425.00	\$425.00	\$425.00	\$425.00
Additional days (per day)	\$175.00	\$175.00	\$175.00	\$175.00
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservation				
Standard Shelter	\$200.00	\$200.00	\$200.00	\$200.00
Spray n' Play Shade Structure	\$75.00	\$75.00	\$75.00	\$75.00
Event Fee (charge no less than \$350; subject to venue agreement)				
1 day	\$350.00	\$350.00	\$350.00	\$350.00
2 days	\$450.00	\$450.00	\$450.00	\$450.00
Building/Classroom Rental				
Day (2 hour minimum)	\$50/hour	\$50/hour	\$50/hour	\$50/hour
All day	\$300.00	\$300.00	\$300.00	\$300.00
Evening (2 hour minimum)	\$100.00	\$100.00	\$100.00	\$100.00
Evening after first 2 hrs (each additional hour)	\$75.00	\$75.00	\$75.00	\$75.00

2023 Fees and Charges - Indian Springs

Type	2023	2022	2021	2020
Environmental Discovery Center Events Room Rental (Non-Wedding)				
<i>April - October (per day)</i>				
Friday, Saturday and holidays	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
Sunday - Thursday	\$800.00	\$800.00	\$800.00	\$800.00
<i>November - March (per day)</i>				
Friday, Saturday and holidays	\$900.00	\$900.00	\$900.00	\$900.00
Sunday - Thursday	\$700.00	\$700.00	\$700.00	\$700.00
Refundable Security Deposit	\$500.00	\$500.00	\$500.00	\$500.00
Environmental Discovery Center Events Room Rental Wedding Packages				
<i>April - October (per day)</i>				
Ceremony & Reception Package				
Friday, Saturdays and Holidays	\$3,200.00	\$3,200.00	\$3,200.00	\$2,500.00
Sunday - Thursday	\$2,700.00	\$2,700.00	\$2,700.00	\$2,000.00
Reception Only Package				
Friday, Saturdays and Holidays	\$2,900.00	\$2,900.00	\$2,900.00	\$2,200.00
Sunday - Thursday	\$2,400.00	\$2,400.00	\$2,400.00	\$1,700.00
<i>November - March (per day)</i>				
Reception Only Package				
Friday, Saturdays and Holidays	\$2,700.00	\$2,700.00	\$2,700.00	\$2,000.00
Sunday - Thursday	\$2,200.00	\$2,200.00	\$2,200.00	\$1,700.00
Refundable Security Deposit	\$500.00	\$500.00	\$500.00	\$500.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Kensington

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Joint Permit w/Oakland County Parks	\$64.00	\$64.00	\$64.00	\$64.00
Boat Permit				
Annual	\$35.00	\$35.00	\$35.00	\$35.00
Non-Resident	\$40.00	\$40.00	\$40.00	n/a
Senior Citizen	\$24.00	\$24.00	\$24.00	\$24.00
Non-Resident	\$29.00	\$29.00	\$29.00	n/a
Annual Permit / Boat Permit Combo	\$75.00	\$75.00	\$70.00	\$70.00
Annual Permit / Boat Permit Combo (Non-Resident)	\$80.00	\$80.00	\$80.00	n/a
Senior Annual Permit / Boat Permit	\$53.00	\$53.00	\$48.00	\$48.00
Senior Annual Permit/Boat Permit Combo (Non-Res)	\$58.00	\$58.00	\$58.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Boat Rental				
Rowboat 12' and 14'	\$8/hour	\$8/hour	\$8/hour	\$8/hour
Maximum	\$25.00	\$25.00	\$25.00	\$25.00
Canoes	\$10/hour	\$10/hour	\$10/hour	\$10/hour
Paddleboats - 4 passenger	\$15/hour	\$15/hour	\$15/hour	\$15/hour
Swan / Dragon Pedal Boat	\$17/hour	\$17/hour	\$17/hour	\$17/hour
Kayak - 1 person	\$10/hour	\$10/hour	\$10/hour	\$10/hour
Kayak - 2 person	\$15/hour	\$15/hour	\$15/hour	\$15/hour
Senior Citizen Rate (M-Th)				
Row boat maximum	\$20.00	\$20.00	\$20.00	\$20.00
Cushions and life jackets provided w/rental				
Additional cushion/life jacket rental	\$1.00	\$1.00	\$1.00	\$1.00
Additional cushion/life jacket deposit	\$5.00	\$5.00	\$5.00	\$5.00
Paddleboards	\$15/hour	\$15/hour	\$15/hour	\$15/hour
Boat Dockage				
Class A (78-96" width - length up to 24')	\$800.00	\$800.00	\$800.00	\$800.00
Class B (66-77" width - length up to 20')	\$725.00	\$725.00	\$725.00	\$725.00
Class C (54-65" width - length up to 18')	\$500.00	\$500.00	\$500.00	\$500.00
Group Campsite - Overnight (Youth Groups Only)				
Permit (per troop, 1st night)	\$35.00	\$35.00	\$35.00	\$35.00
Permit (per troop, addl. nights)	\$15.00	\$15.00	\$15.00	\$15.00
Camporees/Jamborees - per troop/group	\$40.00	\$40.00	\$40.00	\$40.00
Rack of Wood (approx. 3' x 3' x14")	\$25.00	\$25.00	\$25.00	\$25.00
Canoe Campsite - Overnight				
Per Canoe (up to 10)	\$5.00	\$5.00	\$5.00	\$5.00
Excursion Boat - Island Queen				
Adults - per person	\$6.00	\$6.00	\$6.00	\$6.00
Children ages 3-12, Senior Citizens - per person	\$4.00	\$4.00	\$4.00	\$4.00
Children 2 years and under	Free	Free	Free	Free
Charter (morning or evening)	\$100/hr	\$100/hr	\$100/hr	\$100/hr
Disc Golf Course				
Daily (wristband) Black Locust	\$3.00	\$3.00	\$3.00	\$3.00
Daily (wristband) Toboggan	\$5.00	\$5.00	\$5.00	\$5.00
Annual bag tag	\$60.00	\$60.00	\$60.00	\$60.00
Annual Senior (62 & over) and Jr. (17 & under) bag tag	\$40.00	\$40.00	\$40.00	\$40.00

2023 Fees and Charges - Kensington

Type	2023	2022	2021	2020
Interpretive Program Fees				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Scout Programs				
Per scout (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Special Events				
Adults/Children (minimum fee)	\$2.00	\$2.00	\$2.00	\$2.00
Group Programs In Park				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Parents/Teachers/Chaperones	Free	Free	Free	Free
Group Programs Out of Park				
One program	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Building/Classroom Rental				
Day (2 hour minimum)	\$50/hour	\$50/hour	\$50/hour	\$50/hour
All day	\$300.00	\$300.00	\$300.00	\$300.00
Evening (2 hour minimum)	\$100.00	\$100.00	\$100.00	\$100.00
Evening after first 2 hrs (each additional hour)	\$75.00	\$75.00	\$75.00	\$75.00
Out of Five County Interpretive School Programs				
Group Programs In Park				
Per student, one hour program	\$4.00	\$4.00	\$4.00	\$4.00
Per student, two or more hour program	\$7.00	\$7.00	\$7.00	\$7.00
Group Program Out of Park				
One program , plus IRS mileage rate (max. 60 mile radius from park)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Mobile Learning Center Special Events				
One day event	\$425.00	\$425.00	\$425.00	\$425.00
Additional days (per day)	\$175.00	\$175.00	\$175.00	\$175.00
Cross Country Ski Rental (tax included)				
Full Set 1/2 Day Adult	\$15.00	\$15.00	\$15.00	\$15.00
Full Set 1/2 Day Youth (under 16)	\$9.00	\$9.00	\$9.00	\$9.00
Skis only	\$6.00	\$6.00	\$6.00	\$6.00
Boots only	\$6.00	\$6.00	\$6.00	\$6.00
Poles only	\$4.00	\$4.00	\$4.00	\$4.00
Hayrides / Sleigh rides (Noon - 4pm Sat & Sun)				
Children 2 years and under	Free	Free	Free	Free
Children 3-12 years	\$3.00	\$3.00	\$3.00	\$3.00
Seniors	\$3.00	\$3.00	\$3.00	\$3.00
Adults (per person)	\$5.00	\$5.00	\$5.00	\$5.00
Reservations (5 - 9pm)				
Rates	\$150/hour	\$150/hour	\$150/hour	\$150/hour
2-Hour Rate	\$250.00	\$250.00	\$250.00	\$250.00
Bonfire	\$50.00	\$50.00	\$50.00	\$50.00
Day Charter Reservations (10am - 4pm)				
Groups (1/2 hour by appointment)	\$50	\$50	\$50	\$50
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservation				
Fee	\$225.00	\$225.00	\$225.00	\$225.00

2023 Fees and Charges - Kensington

Type	2023	2022	2021	2020
Stage Rental				
Per day, in park	\$600.00	\$600.00	\$600.00	\$600.00
Per day, out of park, 1st day (up to a 25 mile distance)	\$900.00	\$900.00	\$900.00	\$900.00
Per day, out of park, add'l day (up to a 25 mile distance)	\$600.00	\$600.00	\$600.00	\$600.00
Splash N' Blast (Family Aquatic Center)				
42" and taller	\$7.00	\$7.00	\$7.00	\$7.00
Under 42"	\$6.00	\$6.00	\$6.00	\$6.00
Under 30"	Free	Free	Free	Free
Twilight (After 5pm)				
42" and taller	\$6.00	\$6.00	\$6.00	\$6.00
under 42"	\$5.00	\$5.00	\$5.00	\$5.00
Before and After Hours (10-11am, 7-8pm)				
Group rates for groups of 75 or less	\$200/hour	\$200/hour	\$200/hour	\$200/hour
Group rates for more than 75 (add'l fee per person)	\$4.00	\$4.00	\$4.00	\$4.00
Event Fee (charge no less than \$350; subject to venue agreement)				
1 day	\$350.00	\$350.00	\$350.00	\$350.00
2 days	\$450.00	\$450.00	\$450.00	\$450.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Huron Meadows

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Cross Country Ski Rental (tax included)				
Full Set - Adult	\$15.00	\$15.00	\$15.00	\$15.00
Full Set - Youth (under 16)	\$9.00	\$9.00	\$9.00	\$9.00
Sit and Ski	\$6.00	\$6.00	\$6.00	\$6.00
Skis	\$6.00	\$6.00	\$6.00	\$6.00
Boots	\$6.00	\$6.00	\$6.00	\$6.00
Poles	\$4.00	\$4.00	\$4.00	\$4.00
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservation				
Fee	\$200.00	\$200.00	\$200.00	\$200.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Hudson Mills

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Group Campsite - Overnight (Youth Groups Only)				
Permit (per troop, 1 st night)	\$35.00	\$35.00	\$35.00	\$35.00
Permit (per troop, add'l nights)	\$15.00	\$15.00	\$15.00	\$15.00
Camporees/Jamborees - per troop/group	\$40.00	\$40.00	\$40.00	\$40.00
Rack of Wood (approx. 3' x 3' x14")	\$25.00	\$25.00	\$25.00	\$25.00
Canoe Campsite - Overnight				
Per Canoe (up to 10)	\$5.00	\$5.00	\$5.00	\$5.00
Disc Golf Course				
Daily (wristband)	\$3.00	\$3.00	\$3.00	\$3.00
Annual bag tag	\$60.00	\$60.00	\$60.00	\$60.00
Annual Senior (62 & over) and Jr. (17 & under) bag tag	\$40.00	\$40.00	\$40.00	\$40.00
Interpretive Program Fees				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Scout Programs				
Per scout (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Special Events				
Adults/Children (minimum fee)	\$2.00	\$2.00	\$2.00	\$2.00
Group Programs In Park				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Parents/Teachers/Chaperones	Free	Free	Free	Free
Group Programs Out of Park				
One program	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Out of Five County Interpretive School Programs				
Group Programs In Park				
Per student, one hour program	\$4.00	\$4.00	\$4.00	\$4.00
Per student, two or more hour program	\$7.00	\$7.00	\$7.00	\$7.00
Group Program Out of Park				
One program , plus IRS mileage rate (max. 60 mile radius from park)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Mobile Learning Center Special Events				
One day event	\$425.00	\$425.00	\$425.00	\$425.00
Additional days (per day)	\$175.00	\$175.00	\$175.00	\$175.00

2023 Fees and Charges - Hudson Mills

Type	2023	2022	2021	2020
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservation				
Fee	\$200.00	\$200.00	\$200.00	\$200.00
Bike and Trike Rental				
Up to 2 hour rental	\$15.00	\$15.00	\$15.00	\$15.00
Event Fee (charge no less than \$350; subject to venue agreement)				
1 day	\$350.00	\$350.00	\$350.00	\$350.00
2 days	\$450.00	\$450.00	\$450.00	\$450.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Dexter-Huron & Delhi

Dexter-Huron

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Picnic Shelter Reservation				
Fee	\$200.00	\$200.00	\$200.00	\$200.00

Delhi

Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Picnic Shelter Reservation				
Fee	\$200.00	\$200.00	\$200.00	\$200.00
Canoe and Kayak Rental (Concessionaire)				
Hudson Mills to Delhi (eight miles)	Per Contract			
Dexter-Huron to Delhi (three miles)	Per Contract			
Deposit	Per Contract			
Premium canoe (extra charge)	Per Contract			
Third adult in canoe	Per Contract			

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Lower Huron

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservations				
Tier 1 (seats up to 100)				
Ellwoods East	\$200.00	\$200.00	\$200.00	\$200.00
Ellwoods West	\$200.00	\$200.00	\$200.00	\$200.00
Sycamore Bend	\$200.00	\$200.00	\$200.00	\$200.00
Tulip Tree	\$200.00	\$200.00	\$200.00	\$200.00
Woods Creek North	\$200.00	\$200.00	\$200.00	\$200.00
Tier 2 (seats up to 200)				
Foxwoods	\$250.00	\$250.00	\$250.00	\$250.00
Hawthorne Glade North	\$250.00	\$250.00	\$250.00	\$250.00
Hawthorne Glade South	\$250.00	\$250.00	\$250.00	\$250.00
Woods Creek South	\$250.00	\$250.00	\$250.00	\$250.00
Turtle Cove Picnic Corrals (per day)	\$25.00	\$25.00	\$25.00	\$25.00
Event Fee (charge no less than \$350; subject to venue agreement)				
1 day	\$350.00	\$350.00	\$350.00	\$350.00
2 days	\$450.00	\$450.00	\$450.00	\$450.00
Rustic Camping - Overnight				
Per Campsite (per night)	\$25.00	\$25.00	\$25.00	\$25.00
Group Campsite - Overnight				
Permit (per troop, 1st night)	\$35.00	\$35.00	\$35.00	\$35.00
Permit (per troop, addl. nights)	\$15.00	\$15.00	\$15.00	\$15.00
Camporees/Jamborees - per troop/group	\$40.00	\$40.00	\$40.00	\$40.00
Rack of Wood (approx. 3' x 3' x14")	\$25.00	\$25.00	\$25.00	\$25.00
Turtle Cove Aquatic Center				
48" and taller, Weekend	\$12.00	\$12.00	\$12.00	\$12.00
Under 48", Weekend	\$10.00	\$10.00	\$10.00	\$10.00
Twilight, Weekend (after 6pm, for 2 hours)	\$8.00	\$8.00	\$8.00	\$8.00
48" and taller, Weekday	\$11.00	\$11.00	\$11.00	\$11.00
Under 48", Weekday	\$9.00	\$9.00	\$9.00	\$9.00
Twilight, Weekday (after 5pm, for 2 hours)	\$8.00	\$8.00	\$8.00	\$8.00
Youth group rate per person (20 minimum, M-F only)	\$7.00	\$7.00	\$7.00	\$7.00
Coin operated lockers	\$0.50	\$0.50	\$0.50	\$0.50

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Willow

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Swimming Pool				
All ages (includes use of bath house)	\$4.00	\$4.00	\$4.00	\$4.00
Twilight (after 5pm)	\$3.00	\$3.00	\$3.00	\$3.00
Children under 30" tall	Free	Free	Free	Free
Youth group rate (per person, 20 min., M-F only)	\$3.00	\$3.00	\$3.00	\$3.00
Coin-operated lockers	\$0.50	\$0.50	\$0.50	\$0.50
Picnic Shelter Reservation				
Tier 1 (seats up to 100)				
Chestnut North	\$200.00	\$200.00	\$200.00	\$200.00
Chestnut South	\$200.00	\$200.00	\$200.00	\$200.00
Fox Meadows North	\$200.00	\$200.00	\$200.00	\$200.00
Fox Meadows South	\$200.00	\$200.00	\$200.00	\$200.00
Washago Pond	\$200.00	\$200.00	\$200.00	\$200.00
Willow Pool	\$200.00	\$200.00	\$200.00	\$200.00
Tier 2 (seats up to 200)	\$200.00	\$200.00	\$200.00	\$200.00
Flintwoods	\$250.00	\$250.00	\$250.00	\$250.00
Bicycle Rental (weekend / holidays only, one-hour min.)				
20" or 26" single speed	\$7/hour	\$7/hour	\$7/hour	\$7/hour
3-Wheel	\$7/hour	\$7/hour	n/a	n/a
Tandem	\$8/hour	\$8/hour	\$8/hour	\$8/hour
Driver's license and deposit	\$10.00	\$10.00	\$10.00	\$10.00
Maximum deposit (two or more bikes; same family)	\$20.00	\$20.00	\$20.00	\$20.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Oakwoods

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Interpretive Program Fees				
Family/individual programs				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Scout Programs				
Per scout (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Special Events				
Adults/Children (minimum fee)	\$2.00	\$2.00	\$2.00	\$2.00
Group Programs In Park				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Parents/Teachers/Chaperones	Free	Free	Free	Free
Group Programs Out of Park				
One program	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Building/Classroom Rental				
Day (2 hour minimum)	\$50/hour	\$50/hour	\$50/hour	\$50/hour
All day	\$300.00	\$300.00	\$300.00	\$300.00
Evening (2 hour minimum)	\$100.00	\$100.00	\$100.00	\$100.00
Evening after first 2 hrs (each additional hour)	\$75.00	\$75.00	\$75.00	\$75.00
Out of Five County Interpretive School Programs				
Group Programs In Park				
Per student, one hour program	\$4.00	\$4.00	\$4.00	\$4.00
Per student, two or more hour program	\$7.00	\$7.00	\$7.00	\$7.00
Group Program Out of Park				
One program , plus IRS mileage rate (max. 60 mile radius from park)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Mobile Learning Center Special Events				
One day event	\$425.00	\$425.00	\$425.00	\$425.00
Additional days (per day)	\$175.00	\$175.00	\$175.00	\$175.00
Voyageur Canoe				
All ages	\$5.00	\$5.00	\$5.00	\$5.00
Group rate (maximum 20 persons)	\$75/hour	\$75/hour	\$75/hour	\$75/hour

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.

2023 Fees and Charges - Lake Erie

Type	2023	2022	2021	2020
Vehicle Entry Permit				
Annual	\$40.00	\$40.00	\$40.00	\$40.00
Non-Resident	\$45.00	\$45.00	\$45.00	n/a
Senior Citizen	\$29.00	\$29.00	\$29.00	\$29.00
Non-Resident	\$34.00	\$34.00	\$34.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Boat Permit				
Annual	\$35.00	\$35.00	\$35.00	\$35.00
Non-Resident	\$40.00	\$40.00	\$40.00	n/a
Senior Citizen	\$24.00	\$24.00	\$24.00	\$24.00
Non-Resident	\$29.00	\$29.00	\$29.00	n/a
Annual Permit / Boat Permit Combo	\$75.00	\$75.00	\$70.00	\$70.00
Annual Permit / Boat Permit Combo (Non-Resident)	\$80.00	\$80.00	\$80.00	n/a
Senior Annual Permit / Boat Permit	\$53.00	\$53.00	\$48.00	\$48.00
Senior Annual Permit/Boat Permit Combo (Non-Res)	\$58.00	\$58.00	\$58.00	n/a
Daily	\$10.00	\$10.00	\$10.00	\$10.00
Marina Transient Weekly				
25-Foot	\$56.00	\$56.00	\$56.00	\$56.00
30-Foot	\$66.00	\$66.00	\$66.00	\$66.00
35-Foot	\$76.00	\$76.00	\$76.00	\$76.00
40-Foot	\$81.00	\$81.00	\$81.00	\$81.00
Marina Transient Daily (24 hours)				
All boat lengths	\$30.00	\$30.00	\$30.00	\$30.00
Marina Miscellaneous				
Summer daily yard storage	\$10.00	\$10.00	\$10.00	\$10.00
Daily yard storage during repair (per day)	\$10.00	\$10.00	\$10.00	\$10.00
Trailer storage (weekly transient)				
Slip holders (weekly rate)	\$10.00	\$10.00	\$10.00	\$10.00
Summer dry storage (April 1 - Oct 31) w/ramp use	\$500.00	\$500.00	\$500.00	\$500.00
Pump-out holding tank	\$8.00	\$8.00	\$8.00	\$8.00
Boat Storage				
Summer	\$500.00	\$500.00	\$500.00	\$500.00
Winter	\$300.00	\$300.00	\$300.00	\$300.00
Mini-summer dry boat storage	\$275.00	\$275.00	\$275.00	\$275.00
Wave Pool				
Children (15 years and under) and Seniors	\$6.00	\$6.00	\$6.00	\$6.00
Adults	\$8.00	\$8.00	\$8.00	\$8.00
Twilight rate (after 5pm)	\$5.00	\$5.00	\$5.00	\$5.00
Raft rental (included in price)	Free	Free	Free	Free
Coin operated lockers	\$0.50	\$0.50	\$0.50	\$0.50
Organized youth group (20 person minimum)				
Weekdays only	\$4.00	\$4.00	\$4.00	\$4.00
Commercial Advertising Fee				
2 hour minimum	\$250/hour	\$250/hour	\$250/hour	\$250/hour
Picnic Shelter Reservation				
Tier 1 (seats up to 100)				
American Lotus	\$200.00	\$200.00	\$200.00	\$200.00
Muskrat	\$200.00	\$200.00	\$200.00	\$200.00
Cattail	\$200.00	\$200.00	\$200.00	\$200.00
Wood Duck	\$200.00	\$200.00	\$200.00	\$200.00
Tier 3 (seats up to 300)				
Blue Heron	\$300.00	\$300.00	\$300.00	\$300.00

2023 Fees and Charges - Lake Erie

Type	2023	2022	2021	2020
Interpretive Program Fees				
Family/individual programs				
Adults (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Children (minimum fee)	\$3.00	\$3.00	\$3.00	\$3.00
Scout Programs				
Per scout (minimum fee)	\$5.00	\$5.00	\$5.00	\$5.00
Special Events				
Adults/Children (minimum fee)	\$2.00	\$2.00	\$2.00	\$2.00
Group Programs In Park				
Per student, one program	\$3.00	\$3.00	\$3.00	\$3.00
Per student, all day program	\$6.00	\$6.00	\$6.00	\$6.00
Parents/Teachers/Chaperones	Free	Free	Free	Free
Group Programs Out of Park				
One program	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Building/Classroom Rental				
Day (2 hour minimum)	\$50/hour	\$50/hour	\$50/hour	\$50/hour
All day	\$300.00	\$300.00	\$300.00	\$300.00
Evening (2 hour minimum)	\$100.00	\$100.00	\$100.00	\$100.00
Evening after first 2 hrs (each additional hour)	\$75.00	\$75.00	\$75.00	\$75.00
Out of Five County Interpretive School Programs				
Group Programs In Park				
Per student, one hour program	\$4.00	\$4.00	\$4.00	\$4.00
Per student, two or more hour program	\$7.00	\$7.00	\$7.00	\$7.00
Group Program Out of Park				
One program , plus IRS mileage rate (max. 60 mile radius from park)	\$100.00	\$100.00	\$100.00	\$100.00
Additional program, same day/same school	\$75.00	\$75.00	\$75.00	\$75.00
Event Fee (charge no less than \$350; subject to venue agreement)				
1 day	\$350.00	\$350.00	\$350.00	\$350.00
2 days	\$450.00	\$450.00	\$450.00	\$450.00

Note: Charitable and non-profit organizations may request and receive a 50 percent reduction in the above rates for building use Monday through Friday (excluding holidays). These organizations should appear on the list of Charitable Trusts published by the state of MI.



To: Board of Commissioners
From: Amy McMillan, Director
Subject: Approval – 2023 Metroparks Employee Recognition Dinner Subsidy
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve a subsidy not to exceed \$8,000 for the 2023 Employee Recognition event as recommended by Director Amy McMillan and staff.

Fiscal Impact: The \$8,000 cost subsidy will be incorporated into the recommended 2023 annual budget.

Background: In accordance with Employee Association contracts, an annual Award and Recognition dinner is held each year to honor new employees, retirees and current employees for their performance and dedication with the Metroparks contributing up to a maximum of \$8,000 toward the cost of the event.



To: Board of Commissioners
From: Amy McMillan, Director
Subject: Approval – 2023 Board of Commissioners Meeting Schedule
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the 2023 Board of Commissioners meeting schedule as recommended by Director McMillan and staff.

Background: The proposed 2023 Board of Commissioners meeting schedule is attached for review. All meeting dates are scheduled for the second Thursday of each month beginning at 12:30 p.m.

Attachment: 2023 Proposed Board of Commissioners Meeting Schedule

HURON-CLINTON METROPARKS
Proposed 2023 Board of Commissioners Meeting Schedule

6-j-1

Date	Site	Time	Location/Comments
Jan. 12	Administrative Offices 13000 High Ridge Drive Brighton, MI 48114	12:30pm	Administrative Office Board Room
Feb. 9	Administrative Offices 13000 High Ridge Drive Brighton, MI 48114	11:00am 12:30pm	Pension/Retiree Health Care Trust Meeting Administrative Office Board Room
Mar. 9	Administrative Offices 13000 High Ridge Drive Brighton, MI 48114	11:00am 12:30pm	Board Work Session Administrative Office Board Room
April 13	Stony Creek Metropark 4300 Main Park Road Shelby Twp, MI 48316	12:30pm	Nature Center
May 11	Indian Springs Metropark 5200 Indian Trail White Lake, MI 48386	10:30am 12:30pm	Pension and Retiree Health Care Trust Meeting Environmental Discovery Center Event Room
June 8	Oakwoods Metropark 32911 Willow Road New Boston, MI 48164	11:00am 12:30pm	Board Work Session Nature Center
July 13	Hudson Mills Metropark 8801 North Territorial Road Dexter, MI 48130	12:30pm	Park Office / Activity Center
Aug. 10	Lake St. Clair Metropark 31300 Metro Parkway Mt. Clemens, MI 48046	10:30am 1:00pm	Pension and Retiree Health Care Trust Meeting Thomas Welsh Activity Center
Sept. 14	Lake Erie Metropark 32481 West Jefferson Brownstown, MI 48173	11:00am 12:30pm	Board Work Session Pool Area Food Bar
Oct. 12	Wolcott Mill Metropark 65775 Wolcott Road Ray, MI 48096	12:30pm	Camp Rotary
Nov. 9	Administrative Office 13000 High Ridge Drive Brighton, MI 48114	10:30am 12:30pm	Pension and Retiree Health Care Trust Meeting Administrative Office Board Room
Dec. 14	Administrative Office 13000 High Ridge Drive Brighton, MI 48114	11:00am 12:30pm	Board Work Session Administrative Office Board Room



To: Board of Commissioners
From: Tyler Mitchell, Chief of Natural Resources and Regulatory Compliance
Subject: Report – Monthly Natural Resources Update
Date: October 7, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the monthly Natural Resources Report as recommended by Chief of Natural Resources and Regulatory Compliance and staff.

Attachment: Monthly Natural Resources Report



NATURAL RESOURCES MONTHLY REPORT

OCTOBER 2022

Administrative Office
13000 High Ridge Drive
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)

SYSTEM-WIDE

ADMINISTRATIVE

- Permitting and preparing for fall prescribed fire projects for internal staff and administering prescribed fire projects for the City of Detroit.
- Finalization of Phragmites control projects and administration.
- Grant application preparation and fall tree plantings planning.
- Grant reporting and administration for several ongoing grant projects, at Lake Erie, Lake St. Clair, Willow, Indian Springs continues.
- Preparing RFP (Request for Proposal) for green infrastructure project at Lake Erie, and planting and invasive species removal project at Indian Springs continues.



Figure 1: At Washago pond, native grasses and forbs have begun to grow along the shoreline of the old pond footprint. While several songbirds and marsh birds are already enjoying the site, full restoration will occur by the end of 2023.

SOUTHERN DISTRICT

LAKE ERIE METROPARK

- Marsh enhancement dredging project completed.
- Phase 1 shoreline restoration project to begin in early November.
- Phase 2 of project to follow immediately after.

OAKWOODS METROPARK

- Preparation of prescribed fire units for fall.
- Grant project to alleviate flooding on nature trails.

WILLOW METROPARK

- Big Bend restoration project underway. Shoreline protection and restoration to occur in coming months, with grading and seeding of new prairie grass area.



Figure 2: Cardinal flower blooming along the banks of the Huron River in Willow Metropark.

WESTERN DISTRICT

KENSINGTON METROPARK

- Preparation for fall prescribed fire unit at the Milford road grasslands. This project will be executed by Metroparks staff.

INDIAN SPRINGS METROPARK

- Continuing preparation for kick-off of Healing the Huron Headwaters grant project, to include invasive species removal and restoration of trees in the Huron Swamp and West Wetland Complex.
- Working with Michigan Nature Association as a project partner.

HUDSON MILLS METROPARK

- Control of invasive clover *Sericea lespedeza* in park areas south of Hammel Rd.



Figure 3: Rogue Park prairie wildflower recovery after spring burn in 2022.

EASTERN DISTRICT

STONY CREEK METROPARK

- Hazard tree work to prepare park for fall programs and maintain trails and roadway safety.

LAKE ST. CLAIR METROPARK

- Final grading and seeding of shoreline project to occur in October and November 2022
- Native prairie seed will be laid by staff, and erosion protection blankets will be secured. Duck-nesting habitat will also be installed in winter of 2022.

WOLCOTT MILL METROPARK

- Prescribed fire planning for 2023 units, with ground assessments will be done in late fall of 2022.



Figure 4: Natural Resources Department staff prepare native prairie plugs for planting at butterfly field at Oakwoods Metropark. Similar projects will occur at Lake St. Clair and Lake Erie in 2023.

WHAT'S NEXT?

SYSTEM-WIDE

- Preparation for 2023 wildlife programs
- Budget preparation for 2023 programs.
- Stormwater and water quality improvement planning with internal staff and partners, cooperation with consultant.

SOUTHERN DISTRICT

- Shoreline restoration project breaking ground in November.
- Culvert repair at Oakwoods to improve drainage on nature trails.
- Eastern Prairie Fringed Orchid survey results and habitat management recommendations, anticipated finalization December 2022.

WESTERN DISTRICT

- Oak wilt survey and testing of candidate trees.

EASTERN DISTRICT

- Shoreline restoration grading and seeding at Lake St. Clair.
- Lake St. Clair Groundwater study conducted by USGS for beach restoration grant, results available in fall 2022.
- Tree plantings in grant project areas.



To: Board of Commissioners
From: Sarah Plumer, Chief of Planning and Development
Project Title: Report – Planning and Development Department Monthly Update
Date: October 7, 2022

Action Requested: Receive and file

That the Board of Commissioners receive and file the Planning and Development Department Monthly Update as recommended by Chief of Planning and Development Sarah Plumer and staff.

Background: The following are highlights of the activities of the Planning and Development Department for October 2022:

Project/Initiative Implementation

- NOAA Dam Removal Feasibility Study for Huron and Flat Rock Dams kick off meeting
- EPA GLRI Non-Point Source Green Infrastructure grant project had Community Engagement and Outreach Plan meeting #2. Stakeholder meeting #1 scheduled for October.

Planning & Community Engagement

- Work plan being developed for Indian Springs focus group meetings for input prior to playground design competition.
- Community Recreation Plan virtual stakeholder meetings held for each district (eastern, western, and southern).

Land Issues/Opportunities

- GIS property boundaries updated for Wolcott Mill property acquisition.

Grants

- Field trip scheduled to Windsor International Aquatic and Training Centre to evaluate a Myrtha “RenovAction” pool structure for consideration in submitting a DNR Spark Grant to replace the existing Willow Wave Pool.
- Site visit scheduled for MDNR Trust Fund/Land Water Conservation Fund grant project Lake Erie Loop at Lake Erie Metropark.
- RCWJ Foundation Regional Trail Gap Feasibility Study/Preliminary Engineering awarded to PEA Group/Greenway Collaborative, Inc.
- EGLE High Water Infrastructure Grant Program project selection and development of scope.

Attachment: Planning and Development Department Monthly Update which includes Monthly Grant Updates



PLANNING AND DEVELOPMENT MONTHLY REPORT

October 2022






Administrative Office
13000 High Ridge Drive
Brighton, MI 48114



[METROPARKS.COM](https://www.metroparks.com)

TABLE OF CONTENTS

Metroparks System-Wide	3
Southern District	6
Western District	9
Eastern District.	12
Monthly Grant Updates.	15
What's Next.	16

OTHER DEPARTMENT INPUT KEY	
	Natural Resources and Regulatory Compliance
	Planning and Development
	Diversity, Equity and Inclusion
	Interpretive Services and Community Outreach
	Engineering

SYSTEM-WIDE

Restoration – Linear feet or acreage of project impact for shoreline protected or restored, wetlands protected or restored, floodplain protected or mitigated

Invasive Species Management – Linear feet or acreage of project impact treating invasive species

Habitat and Wildlife Protected – Linear feet or acreage of project impact for fish habitat, fish barriers removed or bypassed, species moved or avoided

Partnerships – Outside agency funding sources (total cost/sharing percentage)

Volunteers – Total number of volunteers/workdays

Grant/Foundation Funding – Total funding/match

Visitor Counts – Total number of visitors weekend/weekday








Best practices education – Project emphasizes educational and interpretational opportunities

Estimated cost – Total estimated or actual cost of project

Accessibility – Determine if facility or programs designed for accessibility (A) or if barriers (B) exist based on ADA checklist







Staff time – Total number of staff hours estimated

Administrative









	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
SYSTEMWIDE	Planning and Development monthly reports	Report		Monthly	Staff time	Report assembly, grant monthly updates
	Tollbooth scanning reports	Report		Monthly	Staff time	Ongoing
	Foundation administrative tasks	Various		Ongoing	Staff time	Administrative tasks, Form 990 has been submitted.
	Sign request processing/signage transition plans	Infrastructure/ Small Facilities		Ongoing	Actual cost	Administrative tasks
	CAPRA accreditation preparation	Report	Various	Ongoing	Staff time	P&D support provided for all Chapter Chairs
	CAPRA Programming Ch. 6	Various		Ongoing	Staff time	Documentation assembly
	CAPRA Planning Ch. 2	Report		Ongoing	Staff time	Documentation assembly
	Commemorative trees and benches	Various		Ongoing	Staff time	Administrative tasks, developed policy for bench and tree removals.

SYSTEM-WIDE

HCMA Studies/Initiatives

Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
Community Recreation Plan	Plan		Ongoing	Staff time	Goals and Objectives review by staff along with district stakeholder meetings held
Sustainability Plan projects coordination	Various		Ongoing	Various	CAPRA Sub-Committee working on sustainability policy standards
ADA Transition Plan	Plan		Ongoing	Staff time	Updates ongoing
Visitor count program	Various		Ongoing	Staff time	Summer 2022 visitor count completed Oct. 16 th . Joint department presentation to be prepared for November BOC
Visitation data documentation and analysis	Report		Ongoing	Staff time	MSU grad student assistance with data analysis
Interpretive Master Plan demographic and other data analysis	Report		Ongoing	Staff time	Support for Interpretive Services staff for interpretive plan development being planned (GIS demographics)

Grants/Fundraising

Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
REI Grant Rouge Park	Plan		Ongoing	Staff time	REI provided another \$8000 in 2022. Materials are being ordered for prairie
GOAL- Various grant opportunities	Plan		Spring '23	Staff time	Applications and Letters of Inquiry (11) in support of '22 –'23 school year GOAL program
RCWJ Foundation	Plan		Ongoing	Staff time	RFP Regional Non-Motorized Gap Feasibility Study awarded to PEA Group and Greenway Collaborative, Inc.
DTE E-Fleet Program	Plan		Ongoing	Staff time	E-Fleet budgeting for 2023 in process
Livingston Co. Trail Connectors – Engineering Design	Plan		Ongoing	Staff time	Funded in House appropriations; waiting on Senate budget reconciliation to see if it remains funded
Bulletproof Vests for Police Dept.	Plan		Ongoing	Staff time	Requested through US Dept. of Justice via State Police office
Early Learner Education Programming	Plan		Ongoing	Staff time	Program funding requested through PNC and 2 Michigan-based foundations
NEEF Beach Wheelchairs	Plan		Ongoing	Staff time	Manufacturer delay due to parts shortage

SYSTEM-WIDE

Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
	EGLE Recycling Bin Grant	Plan	Various	May 2021	Staff time	Operations meeting provided opportunity for staff input on 2022 status of grant project implementation effort and any issues to resolve
	ESRI ArcGIS Administration	Documentation	Various	Ongoing	Staff time	Meeting with P&D staff to discuss 2023 budgeting for ArcGIS Enterprise platform for interactive map application on public website

SOUTHERN DISTRICT





Lake Erie Metropark




SOUTHERN DISTRICT

Grants/Fundraising



	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
LER	2021 TF- Cherry Island Trail Improvements	Large Facilities		April 2021	Staff	Design phase underway following project agreement signed
	2021 GLRI-EPA Nonpoint Source Grant	Large Facilities		Ongoing	Staff time	Partnering with Wyandot to perform ecological restoration at Six Points and SWMP green infrastructure improvements at LER.; Community Engagement Plan meeting #2; Stakeholder meeting #1

Project Implementation/Oversight


	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
LHu	Accessible railroad crossing along hike-bike trail	Small Facilities	Eng	2022 Completion	Construction	Extension of MDOT Regulatory Order requested for budgeting/potential Ralph C. Wilson maintenance funding 2023 project
Wil	SE Michigan Resilience Fund-Big Bend Area Restoration	Large Facilities	Eng/NR	Ongoing	Staff	Pre-construction meetings for both in-stream and on-land activities, Construction underway
LHu	2020 LWCF - Walnut Grove Campground	Documentation	Various	To be completed by 6/30/25	Staff time	Design phase underway following project agreement signed
LHu	2020 LWCF - Off-Leash Dog Area	Documentation	Various	To be completed by 6/30/25	Staff time	Design phase underway following project agreement signed
Oak	NOAA Dam Removal Feasibility Study	Large Facilities		2023	Consultant	Great Lakes Fisheries Commission leading grant submittal facilitated project kick-off meeting

SOUTHERN DISTRICT

Project Implementation/Oversight, cont.

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
LEr	2019 LWCF - Oakwoods Accessible Nature Trail	Large Facilities		Ongoing	Staff time	Project Agreement executed by DNR/NPS, design work being scheduled with engineering dept. beginning design in Oct. 2022
	2019 LWCF - Lake Erie Accessible Boat/Kayak Launch	Large Facilities		Needs to be completed by 6/1/2024	Staff time	DNR project agreement executed, engineering design next step

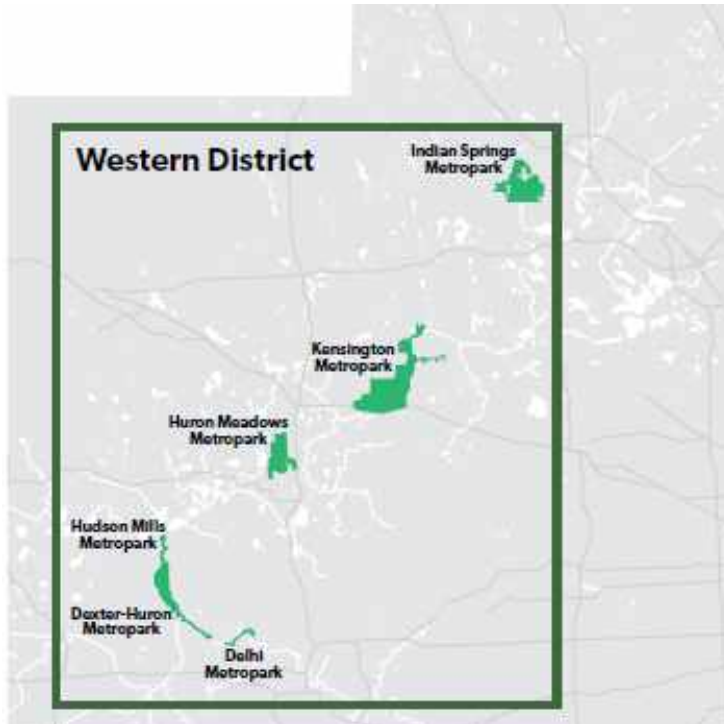
Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
LEr	Lake Erie Shoreline Restoration Project	Spoil Pile Location	Ops . NR	October	Staff time	Phase 2 bidding on MITN, dredging underway
	Adaptive Ballfield Concept Plan	Plan		2022	Staff time	Conceptual planning process phase

HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
LEr	Marina building study	Large Facilities		2021	Consultant	Master planning concept design 75% completed by architect

WESTERN DISTRICT







Maple Beach Playground at Kensington Metropark





WESTERN DISTRICT

Administrative






	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
Del	Border-to-Border trail design and construction	Large Facilities		Ongoing	Estimated Cost	Construction began on B2B segment Zeeb Rd. to Delhi Metropark.
MISC	Livingston County Parks and Open Space Advisory Committee	Partnership		Ongoing	Staff time	Attendance at regular POSAC meetings. Trail counter in place at Fillmore County Park. Data downloaded monthly
	Friends of the Lakelands Trail Steering Committee	Partnership		Ongoing	Staff time	Represent HCMA as a participating steering committee member that meet monthly
	Huron Valley Trail quarterly meeting	Partnership		Ongoing	Staff time	Represent HCMA as a participating partner.

Grants/Fundraising

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
Del	Launch/Take-out Renovation	Large Facilities		Ongoing	Staff time	Final scoring in December
	Washtenaw 100 – Training materials, emergency supplies	Partnership		Ongoing	Staff time	Check received for Police Dept. use in Washtenaw Co. parks

WESTERN DISTRICT

Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
Ken	2019 TF West Boat Launch Accessible Launch Project	Large Facilities		Ongoing	Staff time	Project completed, performing close out documentation
HMills	2019 TF Rapids View Accessible Launch Project	Large Facilities		Ongoing	Staff time	Construction completed; Waiting on minor trailhead sign; fall plantings
DHu	2020 TF – Dex-Huron Accessible Launch	Large Facilities		Ongoing	Staff time	Engineering design resumed
Ken	Impact 100 – Seeding a Green Future	Plan		Ongoing	Staff time	Extension approved – trying to achieve modified educational goals post-COVID closures
	DNR Community Forestry Grant	Plan	Maint. Ops	Fall 2022	Staff time	Received grant to plant trees at Hudson Mills and Wolcott Mill.
BP	CE Headwaters Restoration	Partnership		Ongoing	Staff time	MOU with MNA and RFP for invasive control and planting

Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
	None					

HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
HMills	Northwest Passage Feasibility Study Review	Plan	Various	2022	Staff time	Review WCPARC/Dexter Twp. preliminary design

EASTERN DISTRICT



Metro Boat Show at Lake St. Clair Metropark








EASTERN DISTRICT



Administrative

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
WMIII	Schmidt Property Acquisition	Land Acquisition		Fall 2022	Acquisition	Working on demolition of deteriorated barns and other structures on site.

Grants/Fundraising



	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
SCR	2022 LWCF/MNRTF- Stony Creek Reflection Trail Accessible Trail Development	Small Facilities		Ongoing	Staff time	Full cost is \$1.2. TF grant is \$300k, LWCF grant is 500k. Cash match is \$826k, \$626k respectively w/30k in-kind engineering
LSC	Michigan Coastal Management Program Grant – Accessible Kayak Launch	Large Facilities	Various	Ongoing	Staff time	Construction underway
LSC	Macomb County Birding Platform	Small Facilities		March 2022	Staff time	Conceptual birding platform completed. Site visit with Macomb County discussed potential site location moved to nature trails
LSC	2022 LWCF- West Boardwalk Accessibility Improvements	Small Facilities		April 2021	Staff time	Expect higher project cost; match reduced to 50%, supplemental material provided, reduced scope items
LSC	'23 TF Daysail Area Trail	Small Facilities		Ongoing	Staff time	Preparing application for DNR '23 grant
LSC	DNR Community Forestry grant for 100 trees	Small Facilities		Spring 23	Staff time	Should receive results in November
LSC	EGLE State High Water Infrastructure	Large facilities	Various	Due 11/30/22	Staff time	Applying for both LSC North Marina and the parking lot project
LSC	Green Macomb (subrecipient)	Plan	Maint. Ops.	Fall 2022	Staff time	Received grant to plant 25 trees at LSC and 20 trees at Stony Creek

Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
LSC	Transit Planning for Access to LSC	Large Facilities		2021 Completion	Consultant/Staff	Strategy in progress with SMART for continued marketing efforts and data reporting/analysis for 2023 summer season
LSC	LSC Beach Restoration Project- Nonpoint Source Pollution Project	Large Facilities		2023 Completion	Staff time	Woody vegetation volunteering

EASTERN DISTRICT

Project Implementation/Oversight, Cont.

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
SCr	Shelden Trails Signage Plan	Small Facilities	Mkting	3 months	Staff time	Mapping and signing of ski trails and intersection numbers completed
	26 Mile Connector Trail TAP Grant	Large Facilities		2022 Completion	Staff time	Liquidated damages letter send to contractor
	Mound Rd. north of fire station sidewalk easement	Small Facilities		2022 Completion	Staff time	Preliminary site plan approved with comment with HCMA request to avoid easement acquisition. Awaiting response by Washtenaw Twp. legal consultant.
	4CCF Educational field trips at Wolcott and SC	Plan	Various	Ongoing	Staff time	Checks received; website & promotions; program registrations begun

HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
SCr	None					

Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	October 2022 Actions
SCr	Baypoint Beach concept plans developed	Plan	Various	2021	Staff time	Preferred concept replacement of tent facility with event shelter

WHAT'S NEXT?

	Description	Action Type
SYSTEM WIDE	CAPRA documentation assembly	Staff time
	5-County Regional Non-Motorized Gap RFP	Staff/consultants
	Community Recreation Plan Development	Staff
	Electric Vehicle Initiatives	Staff/consultants
EASTER DISTRICT	Site visit (field trip) to City of Windsor Swimming Pool Install (evaluation of similar retrofit for Lake Erie Wave Pool)	Staff time
WESTERN DISTRICT	Programming Evaluations	Staff time
	Northwest Passage alternative analysis review	Staff time
SOUTHERN DISTRICT	Lake Erie Loop site visit	Staff time
	Adaptive Ballfield stakeholder and community input	Staff time
	Metroparks Adaptive Recreation Clinics	Staff time



Grant Updates - October 2022

In Progress								
Grant program		JV/MN	Project/Park	Amount	Match	Due Date	Applicant	Notes
MDNR Trust Fund		MN	Willow Fishing Platform	TBD	TBD	4/1/2023	HCMA	Fishing platform to replace loss of E. Bend Fishing pier; also considering launch
DNR TF or LWCF		MN	LSC Daysail Area Trail	TBD	TBD	4/1/2023	HCMA	Extends hike/bike trail from W. Boardwalk to Daysail and north to parking lot.
RCWJ Foundation/Metroparks Connectors		JV	Trail Connectors/SEMTAT	TBD	TBD	TBD	MF	PEA contract on October BOC meeting, preparing vision document for RCWJ
EGLE High Water Infrastructure		JV	LSC North Marina & Parking lot	\$1,500,000	20%	11/30/2022	HCMA	May be applying for both projects
DTE		JV	Efleet	TBD	TBD	TBD	HCMA	Need a PO or budget to show purchase of Evs for fleet - wait til Dec.
MNRTF/LWCF		JV	Lake Erie Loop	TBD	TBD	4/1/2023	HCMA	on-site meeting planned for 10/20
DNR Spark Grant		JV	LE Great Wave Pool	\$1,000,000	\$1,000,000	TBD	HCMA	Starting to develop concept for pool liner, deck, and bathhouse
RCWJ Trail maintenance			Willow IBT, CSX Crossing	TBD	TBD	3/31/2023	MF	
Grant Applications Awaiting Response								
Grant program	Project #	JV/MN	Project/Park	Award Amt	Match	Submitted	Applicant	Notes
DNR TF '22		MN	DEL Take-out Renovation	\$300,000	\$302,600	3/30/2022	HCMA	Scored well in preliminary scoring; final scoring end of December
Fed. Community Project via DOT		MN	Liv. Co. Connector Trails Design	\$900,000	-	4/22/2022	HCMA	Funded in House THUD appropriations bill 7/20; in Senate reconciliation
US DOJ Bulletproof Vest Partnership		MN	Police Department	\$8,600	50%	6/23/2022	HCMA	State submitted application to DOJ; notification anticipated by end of Sept.
Washtenaw 100		MN	Police Department	\$2,157	-	7/8/2022	HCMA	Training materials; bleeding control kit; tourniquet
GOAL		MN	Interpretive Centers	\$3K - \$10K	-	Early Sept.	MF	Applications & Letters of Inquiry (11) in support of GOAL program
Early Learner Programs		MN	W. Dist. Mobile Learning Center	\$5K - \$10K	-	Sept.	MF	PNC & 2 other foundations in support of pre-elementary school programming
DNR Community Forestry Grant		MN	LSC Tree Plantings	\$25,000	50%	9/23/2022	HCMA	Project to add 100 new native trees in 5 areas of LSC
Fed. Community Project		JV	LSC North Marina	\$500,000	-	4/14/2022	HCMA	Appropriations request submitted to Lisa McLain for engineering
Macomb Appropriations		JV	LSC North Marina	\$5,000,000	\$1,000,000	5/17/2022	HCMA	Appropriations request for phase 1
LWCF 2022		JV	LSC West Boardwalk	\$500,000	\$500,000	4/1/2022	HCMA	Expect higher project cost; match reduced to 50%, Supplemental material provided, reduced scope items.
LWCF & MNRTF 2022		JV	Stony Creek Reflection Trail	See notes	See notes	4/1/2022	HCMA	Full cost is \$1,155,800. TF grant is \$300,000, LWCF grant is \$500,000. Cash match is \$825,800 & \$625,800 respectively w/\$30,000 in in-kind engineering
Grant Administration								
Grant program	Project #	Mgmt	Park/Project	Award Amt	Match	Deadline	Applicant	Updates
LWCF '18	50619.419	MN/JK	LH North Fishing Site	\$144,400	\$144,400	4/30/2022	HCMA	Final reimbursement approved; waiting to receive check
GLRI-FS '18	50219.688	MN/TM	LSC Black Cr Shoreline	\$160,211	-	12/31/2022	HCMA	Making chgs based on launch project; soil/seeding this fall; duck boxes winter
Impact 100 - Oakland Co. '18		MN/PB	KFC Seeding Green Future	\$90,000	-	11/18/2022	MF	Request for 1 year extension (due to COVID interruptions) approved
MNRTF '19	50820.218	MN/JK	HMI Rapids View Launch	\$226,400	\$226,900	8/31/2022	HCMA	Closing out grant; waiting on minor trailhead sign; fall planting
LWCF '19	51120.114	MN/?	Oak Access. Nature Trails	\$124,000	\$124,000	2/29/2024	HCMA	Project Agreement executed; design anticipated in Oct. '22
LWCF '20	50621.500	MN/?	LH WGr Campground	\$300,000	\$150,000	6/30/2025	HCMA	Project agreement signed; waiting for Board resolution
MNRTF '20	50821.221	MN/KE	DxH Accessible Launch	\$192,700	\$192,800	5/31/2023	HMCA	Project design has resumed
Ford Volunteer Corps '20		MN/KK	Oak Prairie Plantings	\$4,000	-	11/30/2021	MF	Plugs planted in September; purchasing additional seeds for dispersal
NFWF-SEMRF '21	51021.319	MN/TM	Wil Big Bend Area Restoration	\$250,000	\$177,859	6/30/2023	HCMA	Construction underway
Ford Volunteer Corps '21		MN/KK	Wolcott Raised Garden Beds	\$7,500	-	11/30/2021	MF	Project complete w/exception of new sign still under development

NEEF-Toyota '21		MN/KK	Beach Wheelchairs	\$20,000	~\$5,000	10/31/2022	HCMA	Manufacturer delay on chairs due to parts shortage; signage being developed
DNR TF '21		MN	LE Cherry Island Trail	\$300,000	\$192,500	7/31/2024	HCMA	Project agreement executed
Consumers Energy Found.	90022.116	MN	IS Headwater Restoration	\$100,000	-	5/31/2024	HCMA	TM developing MOU with MNA and RFP for invasives control & planting
GLRI-EPA Nonpoint Source	51222.247	MN	Green Infrastructure @ LE	\$483,500	-	4/30/2025	HCMA	MOU signed by Wyandot; held staff kick-off mtg; modified plans developed
NOAA GLs Fish Habitat Restor.		MN	Flat Rock Dam Feasibility	\$745,000	\$25,000	9/30/2024	GLFC	Grant accepted for Phase I feasibility study via GLFC; Sept. 30 kick-off meeting
Four County Community Found.	11322.117	MN	Wolcott Mill Farm Center	\$8,000	-	6/29/2022	MF	Program registrations for '22/'23 school year have begun
Four County Community Found.	10922.117	MN	Stony Creek Nature Center	\$9,350	-	6/29/2022	MF	Microscopes purchased; registrations for programs commencing
DNR Iron Belle Trail	50529.126	JV/MH	LH IBT Design Engineering	\$82,075	\$23,400	9/1/2021	HCMA	Extension received for field engineering
MNRTF '19	50420.112'	JV/AS	Ken West Boat Launch Dev	\$154,000	\$154,000	8/31/2022	HCMA	Project completed - conducting project close out
LWCF '19	51220.241	JV	LE Kayak Launch	\$122,500	\$122,500	6/1/2024	HCMA	Project Agreement Signed
MNRTF '19	50920.555'	JV/JK	SC Off Leash Dog Area	\$50,000	\$88,500	8/31/2022	HCMA	Project completed - conducting project close out
TAP Grant		JV/JK	SC 26-Mile Connector Trail	\$214,455	\$43,000	12/31/2021	Macomb Co	Liquidated damages letter sent to contractor
Ralph C. Wilson Jr. Foundation		JV	Southern District	\$2,682,755	-	??	MF	Progress report submitted
REI		JV/KK	Rouge Park Prairie	\$10,500	-	12/31/2021	HCMA	Waiting on approved purchase order for boulders
EGLE Non point source	50220.696	JV/NK	LSC Beach	\$300,000	\$100,000	12/31/2023	HCMA	Woody vegetation volunteer event on 9/29.
EGLE - Recycling		JV/JB	Western & Southern Districts	\$48,816	\$12,204	9/29/2023	HCMA	4th quarterly report submitted
MNRTF '20		JV	LH IBT	\$300,000	\$416,766	6/1/2023	HCMA	Pre-con held on 8/17
LWCF '20		JV	LH Off-Leash Dog Area	\$165,400	\$165,400	~ Summer '23	HCMA	Project agreement on October BOC meeting agenda
Healthy Catalyst		JV	Adaptive Kayak equipment	\$2,950	\$0	10/30/2020	HCMA	\$166 left to spend. Trained Kensington staff on 8/6
REI	90020.115	JV	Rouge Park Prairie	\$16,000	TBD	5/4/2021	MF	REI provided another \$8000 in 2022. Materials are being ordered for prairie
NOAA/Great Lakes Commission		JV/TM	Lake Erie Shoreline Restoration	\$1,449,609	\$135,194	extended	HCMA	Phase 2 bidding on MITN, Dredging underway
Renew MI - DRFC		JV	DRFC	\$1,000,000	N/A	4/30/2021	HCMA	Second quarterly report submitted
MCMP		JV	LSC Accessible Launch	\$194,863	\$194,863	12/31/2022	HCMA	Construction underway, quarterly report submitted
Green Macomb (sub recipient)		JV	20 Trees at Stony Creek	\$3,000		12/31/2022	HCMA	Reimbursable at \$150/tree. Gary/Steve to develop plan
DTE Foundation		JV	Tree plantings at HMI & WMI	\$4,000	\$4,000	6/17/2022	HCMA	Grant agreement comes 10/1. Need to substitute some Sugar Maples



To: Board of Commissioners
From: Jennifer Jaworski, Chief of Interpretive Services
Subject: Report – Interpretive Services Department Monthly Update
Date: October 7, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file Interpretive Services Department Monthly update as recommended by Chief of Interpretive Services Jennifer Jaworski and staff.

Attachment: Monthly Interpretive Services Department Update



HURON-CLINTON METROPARKS

INTERPRETIVE SERVICES MONTHLY REPORT

October 2022

Administrative Office
13000 High Ridge Drive
Brighton, MI 48114



[METROPARKS.COM](https://www.metroparks.com)

Program/Initiative Implementation

Ongoing:

- **Supplemental science curriculum with DPSCD**
 - Staff have met with the teachers to begin planning.
 - All lessons will align to DPSCD science curriculum for 2nd-5th and 8th grades.
- **After school STEAM Club and Nature Network Club**
 - Meetings with administration and teachers
 - Kick off meetings



Wolcott Mill Farm Center new fence and small animal shed

COMMUNITY ENGAGEMENT

New:

- Palmer Park Harvest Fest
- East meets West Charity basketball game
- Ypsilanti River Days
- Rouge River Festival
- Hawkfest



PROGRAMMING

Ongoing:

- **Get Out and Learn scholarships**
 - Started again during the 2022-2023 school year
- **In-person, Synchronous and Asynchronous school programming continues**
 - Senior programming
 - Fall field trips are being scheduled
- **In-person outdoor programming continues, including “pop-up” programs**
 - Staff is utilizing the data in the survey and identifying which programs offered to meet the most need within communities. This data will be utilized for 2023 program planning
- **Virtual/Social Media programming continues**
 - Continuing with Bird of the Week
 - Climate, water and wildlife Wednesdays
 - Building from Washtenaw County Water Commission messaging
 - Creating blogs and videos around water quality, restoration, and wetlands.







To: Board of Commissioners
From: Artina Carter, Chief of Diversity, Equity and Inclusion
Subject: Report – DEI Monthly Update
Date: October 7, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the October 2022 DEI report as recommended by Chief of Diversity, Equity and Inclusion Artina Carter and staff.

Attachment: DEI Report



DEI BOARD REPORT

October 2022



[METROPARKS.COM](https://www.metroparks.com)

DEI DEPARTMENT

MISCELLANEOUS

- Data collection and development of the first draft of the 2023-2026 DEI Plan; including the first legal review
- DEI Speaker Series with Warren Evans-attended by 38 people
- Research in preparation for LGBTQIA+ DEI Conversation (November)
- Coordination of Management, Leadership and Police DEI training
- DEI Advisory Team meeting and discussion
- Completed UM Ann Arbor's Gender and Sexuality Toolkit course
- Research for 2023 Speaker Series
- 2023 Budget preparation

COLLABORATIONS

- Collaborating with the Howell Library and the Livingston County Diversity Council on MLK+ activities.

CROSS-DEPARTMENT SUPPORT

- Active membership on the Program Steering Committee
- Served on the Program Steering Review Team with Marketing and Interpretative Services
 - Presented Draft plan to Director
- Climate Action Plan (CAP):
 - Development: creation and distribution of staff Focus Area Survey
 - Coordination with Core Team and Marketing on invitations and logistics for focus groups
 - Received IRB approval for the CAP process
- New World Budget Training
- Served on Interview panels
 - Police Department
 - IT Applications Manager
 - Lake Erie Park Operations Manager



To: Board of Commissioners
From: Danielle Mauter, Chief of Marketing and Communications
Subject: Report - Marketing Update
Date: October 7, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file September 2022 Marketing Report as recommended by Chief of Marketing and Communications, Danielle Mauter and staff.

Attachment: Marketing Report



HURON-CLINTON METROPARKS MARKETING REPORT

September 2022

Administrative Office
13000 High Ridge Drive
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)

SEPTEMBER 2022

Fall Campaigns Kick-Off

As summer winds to an end, we all start to feel fall in the air. For the Metroparks, fall campaigns kicked off on Sept. 15. Fall campaigns this year were split into a few different efforts as follows:

- General Branding – Fall activities and color
 - :30 sec TV/Video commercials on broadcast, cable and OTT/streaming
 - :15 sec social video for YouTube pre-roll, OTT/streaming and social placements
 - Fall radio commercials describing fall overall
 - Billboards
 - Digital/social ads with general branding style; fall activities photos and headlines
 - Organic social posting
 - Very select print ads
- Fall Events and Programs – Illustrated campaign showcasing ALL events and Programs
 - Website landing page
 - Digital/social ads – multiple artwork types including carousel to highlight different types of programs
 - TikTok and reels ads
 - Organic social posting
 - In-park advertising
 - Flyers at partner locations
 - Email blasts
 - Media alerts
 - Very select print ads
 - Sponsored content article on Michigan Chronicle and Metroparent
- Dedicated campaign for larger or new events
 - Sheldon Mountain Bike Fest
 - Hallowpalooza at Lake St. Clair
 - Trunk or Treat and Movie at Hudson Mills (event name TBD)
 - Evening Lantern Tours at Oakwoods
 - Hawkfest at Lake Erie
 - Trick-or-Treat along the trails – multiple locations
 - Field trips and education
 - November Owl Programs

Data and Campaign Analysis

Work has started on the 2023 Marketing Plan and budget. Staff will be analyzing campaign metrics against attendance and registration data to look for trends and gaps. This work will be done over the next several months. Currently digital and social ads are still trneding as the most effective method with higher engagement rates and reach. January through August, digital and social ads reached approximately 20,900,638 viewers.





6-pTo: Board of Commissioners
From: Travis Grubb, Senior Buyer
Project No: 2022-028
Project Title: Approval – Canoe and Kayak Livery Concessionaire Services
Location: Hudson Mills/Delhi/Dexter-Huron, Lower Huron/Willow/Oakwoods,
Lake St. Clair, Kensington
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the following contract awards resulting from RFP 2022-028 for kayak livery services: (1) Skip’s Huron River Canoe Livery and Outfitters - Hudson Mills/Delhi/Dexter-Huron; (2) Motor City Canoe Rentals, LLC - Lower Huron/Willow/Oakwoods; (3) Simple Adventures - Lake St. Clair; and (4) Heavner Canoe and Ski Rental, Inc - Kensington Metropark as presented by Senior Buyer Travis Grubb and staff.

Fiscal Impact: The Metroparks will receive revenue through monthly commission payments from the selected vendors. Commissions are based on gross sales from these liveries. The Metroparks will receive 15 percent commission for all locations other than the Lake St. Clair location, which will be 20 percent.

Scope of Work: The selected vendors will provide canoe, kayak, paddleboard, and tubing livery services at several locations within the Metroparks (certain rental items are specific to the locations). The goal of the liveries is to allow patrons greater access to outdoor recreation and exploration of Lake St. Clair as well as the Huron and Clinton rivers, which run through the Metroparks.

Process: The solicitation documents were competitively bid and posted on the Michigan Intergovernmental Trade Network (MITN) website, which provided notice to 140 vendors of which, 13 vendors downloaded the solicitation and four submitted a proposal.

The proposals were evaluated in depth by an evaluation committee consisting of the deputy director and district superintendents. After completing the evaluation process, the committee reached a consensus that the companies listed submitted the most responsive and responsible proposal for their respective location.



To: Board of Commissioners
From: Amy McMillan, Director
Project Title: Update – Purchases over \$10,000
Date: November 4, 2022

Action Requested: Receive and File

That the Board of Commissioners receive and file the update for purchases over \$10,000, up to, and including \$25,000 as submitted by Director Amy McMillan and staff.

Background: On May 9, 2013, the Board approved the updated financial policy requiring the Director to notify the Board of purchases exceeding \$10,000, up to, and including \$25,000.

The following list contains purchases exceeding the \$10,000 threshold:

<u>Vendor</u>	<u>Description</u>	<u>Price</u>
1. Natural Stone Distributors	Boulders Rouge Park	\$21,916.00
2. Access Interactive Systeme	Vulnerability Scanning Information Technology Dept.	\$12,628.00
3. Performance Environmental Service, Inc.	Asbestos Abatement Indian Springs Storage Building	\$11,975.00
4. Whitewater West Industries	Splashpad Platform Turtle Cove, Lower Huron	\$10,668.80



To: Board of Commissioners
From: Amy McMillan, Director
Project Title: Purchases – Total Spent and Vendor Locations
Date: November 4, 2022

Action Requested: Receive and File

That the Board of Commissioners receive and file the update for total spent and vendor locations as submitted by Director Amy McMillan and staff.

Background: Each month the Purchasing Department summarizes the total amount spent on capital equipment purchases, major maintenance, and park projects and includes the location of vendors, either within or outside the Metroparks five-county region as well as the effect of DEI, living wage, and the Metroparks local preference policy.

Attachment: Award Requests

Award Requests for November 2022

Vendor	Vendor Location	Description	Park Location	Total Request	Five-County	Greater Michigan	Outside Michigan	Effect of DEI, Living Wage, and Local Preference Policies
Hutson, Inc.	South Lyon, MI	John Deere Tractors, Gators, and MX6 Mower	Lake Erie, Lower Huron/Willow, Kensington, Lake St. Clair	\$250,617.55	\$250,617.55			
AIS Construction Equipment	New Hudson, MI	John Deere 320 P-Tier Backhoe Loader	Stony Creek	\$118,085.13	\$118,085.13			
Golf Cart Fleet	Augusta, GA	Electric Golf Cart Fleet (70 carts)	Indian Springs	\$559,230.00			\$559,230.00	
Skip's Huron River Canoe Livery and Outfitters	Gregory, MI	Canoe and Kayak Livery Services	Hudson Mills/Delhi/Dexter-Huron	N/A - Revenue				
Motor City Canoe Rentals, LLC	Lincoln Park, MI	Canoe and Kayak Livery Services	Lower Huron/Willow/Oakwoods	N/A - Revenue				
Simple Adventures	Auburn Hills, MI	Canoe and Kayak Livery Services	Lake St. Clair	N/A - Revenue				
Heavner Canoe and Ski Rental, Inc	Milford, MI	Canoe and Kayak Livery Services	Kensington Metropark	N/A - Revenue				
Hubble, Roth, and Clark Inc.	Brighton, MI	Design Services Irrigation Systems	Stony Creek/ Willow/ Indian Springs	\$221,400.00	\$221,400.00			
Weatherseal Home Improvements	Shelby Twp., MI	Roofing	Huron Meadows	\$83,270.00	\$83,270.00			
Grit Services	Wixom	Concrete walk replacement	Lake Erie	\$118,492.00	\$118,492.00			
Totals:				\$1,351,094.68	\$791,864.68	\$0.00	\$559,230.00	
Percent of Total Award Request:					58.61%	0.00%	41.39%	



To: Board of Commissioners
From: Travis Grubb, Senior Buyer
Project No: ITB 2022-026
Project Title: Purchase – Trash Compactor
Location: Lower Huron
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners award a contract for the installation of a trash compactor in the amount of \$59,765 to Contract Welding & Fabricating, Inc. of Van Buren Township, Michigan, the lowest responsive and responsible bidder as recommended by Travis Grubb, Senior Buyer and staff.

Fiscal Impact: Funds will come from the Board-approved 2022 Capital Equipment budget, which allowed \$30,000 for this purchase. The total of \$59,765 is \$29,765 over budget. The \$29,765 will come from the current balance in the Capital Equipment Budget. The Capital Equipment Budget will be amended in the future to compensate.

Scope of Work: Contract Welding & Fabricating, Inc. will furnish and install a new trash compactor on-site at the Lower Huron Metropark near the Park Office and Maintenance Yard, which will serve as a long term-trash management solution for the park.

Background: The proposed purchase was competitively bid and published on the Michigan Intergovernmental Trade Network’s website, which provided notice of the solicitation to 33 vendors. Of the 33 notified vendors, 12 downloaded the ITB documents and two submitted bids, which are summarized below:

<u>Vendor</u>	<u>Location</u>	<u>Price</u>
Reaction Distributing	Ajax, Ontario	\$59,765
Contract Welding & Fabricating, Inc.*	Van Buren Township, MI	\$62,000

Contract Welding & Fabricating, Inc. was offered the option to match the low bid pursuant to the Metroparks local preference policy. Contract Welding & Fabricating, Inc. is a local vendor within 5 percent of the low bidder, which is not a local vendor. Contract Welding & Fabricating, Inc. agreed to match the low bid price of \$59,765.

() Indicates recommended award.*



To: Board of Commissioners
From: Travis Grubb, Senior Buyer
Project Title: Cooperative Purchase – John Deere 320 P-Tier Backhoe Loader
Location: Stony Creek Metropark
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the cooperative purchase of a John Deere 320 P-Tier Backhoe Loader for \$118,085.13 from AIS Construction Equipment of New Hudson, Michigan through the state of Michigan's MiDeal cooperative contract #071B7700090 as recommended by Senior Buyer Travis Grubb and staff.

Fiscal Impact: Funds will come from the Board-approved 2022 Capital Equipment budget as amended, which allowed a total of \$120,000 for this purchase. The total price of \$118,085.13 is \$1,914.87 in favor of the budget.

Scope of Work: Furnish/deliver a John Deere 320 P-Tier Backhoe Loader.

Background: The Metroparks is eligible to participate in the state of Michigan's MiDeal cooperative contract program. Through the state's contract with AIS Construction Equipment, the Metroparks was able to secure direct sale discount of 41.6 percent, which resulted in a total discount of \$82,302.27.

The new piece of equipment will replace existing equipment in the Metroparks fleet that is recommended for replacement. The existing piece will be sold through the annual auction.



To: Board of Commissioners
From: Travis Grubb, Senior Buyer
Project Title: Cooperative Purchase – John Deere Tractors, Gators, and Rotary Mower
Location: Lake Erie, Lower Huron/Willow, Kensington, Lake St. Clair
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the cooperative purchase of four John Deere XUV835M Gators, two John Deere 4066R Compact Utility Tractors, and a John Deere MX6 rotary mower for a total price of \$250,617.55 from Hutson, Inc of South Lyon, Michigan through the state of Michigan's MiDeal cooperative contract #071B7700085 as recommended by Senior Buyer Travis Grubb and staff.

Fiscal Impact: Funds will come from the Board-approved 2022 Capital Equipment budget as amended, which allowed a total of \$255,000 for these purchases. The total price of \$250,617.55 is \$4,382.45 in favor of the budget.

Scope of Work: Furnish/deliver four John Deere XUV835M Gators, two John Deere 4066R Compact Utility Tractors, and a John Deere MX6 as specified.

Background: HCMA is eligible to participate in the state of Michigan's MiDeal cooperative contract program. Through the state's contract with Hutson, Inc. the Metroparks were able to secure direct sale discounts ranging from 11-23 percent depending on the line item for these pieces of equipment, which resulted in a total discount of approximately \$27,000.

The new pieces of equipment will replace existing equipment in the Metroparks fleet that is recommended for replacement. Existing pieces will be sold through the first available annual auction after delivery of the new equipment.



To: Board of Commissioners
From: Amy McMillan, Director
Subject: Presentation – Dr. Haley Murphy, Detroit Zoological Society
Date: November 4, 2022

Background: Dr. Haley Murphy, president and CEO of the Detroit Zoological Society will give a presentation to the Board at the Nov. 10 meeting.



To: Board of Commissioners
From: Amy McMillan, Director
Subject: Preliminary 2023 Budget
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners (1) provide feedback to staff on the 2023 budget; and (2) receive and file the 2023 preliminary budget as recommended by Director Amy McMillan and Chief of Finance Shedreka Miller and staff.

Background: Although we have been discussing the 2023 budget in “big picture” terms for several months now, which included taking the unprecedented step of approving the 2023 Capital Equipment budget in advance of 2023 (in the hopes of actually being able to acquire some of that equipment within the year by ordering it now), November is the time when staff traditionally presents the Board with the preliminary budget for the upcoming year.

This gives staff the opportunity to discuss with the Board the raw, unedited numbers provided after all fourth-quarter projections are complete and come to some consensus as to whether these numbers reflect the Board’s priorities as a whole and/or any adjustments the Board would like made before bringing the final recommendation to the Board in December for approval.

The attached document is the culmination of work across all departments, including Chief of Finance Shedreka and her team, along with input from Deputy Director Mike Lyons, Chief of Human Resources Randy Rossman, and myself.

Attachment: 2023 Preliminary Budget

2023 PRELIMINARY BUDGET

Shedreka Miller

November 10, 2022



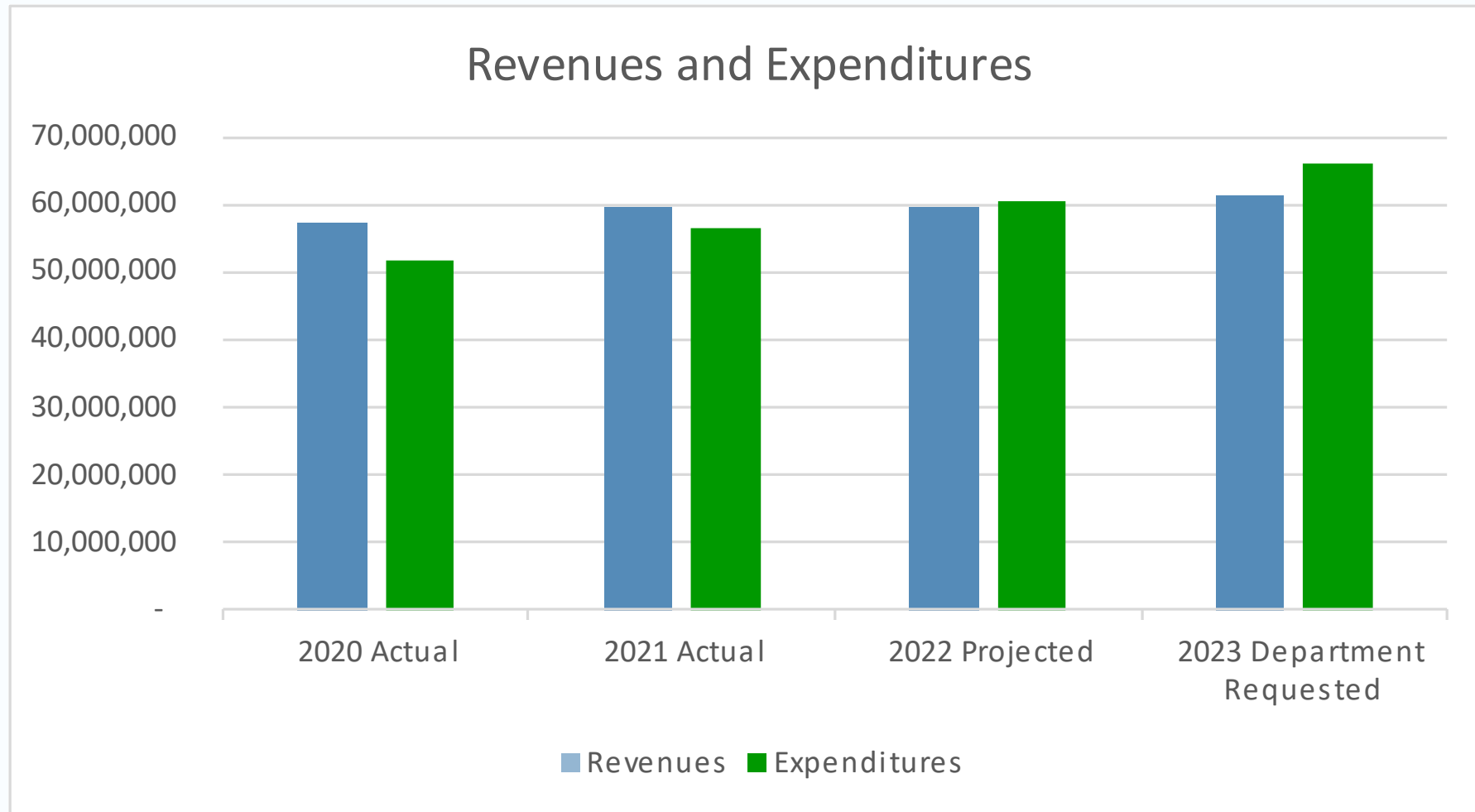
FUND BALANCE BREAKDOWN

	Actual 2020	Actual 2021	Adopted 2022	Projected 2022	Department Requested 2023
Nonspendable:					
Inventory	323,832	290,204	290,204	290,204	290,204
Prepays	814,558	863,442	863,442	863,442	863,442
Total Nonspendable	1,138,390	1,153,646	1,153,646	1,153,646	1,153,646
Restricted:					
Lake St Clair Marina	423,396	468,668	468,668	475,072	475,072
Hudson Mills Canoe Livery	24,804	34,458	34,458	34,458	34,458
Total Restricted	448,200	503,126	503,126	509,530	509,530
Committed:					
Land	5,475,768	4,686,129	4,686,129	4,686,129	4,686,129
Rate Stabilization	893,850	735,396	735,396	735,396	735,396
Total Committed	6,369,618	5,421,525	5,421,525	5,421,525	5,421,525
Assigned:					
Budgeted for next year	2,492,000	5,228,000	-	4,828,958	-
Encumbrances	476,108	1,189,865	1,189,865	2,700,000	2,000,000
Capital Equipment	-	-	-	-	-
Compensated Absences	3,946,741	3,603,139	3,603,139	3,603,139	3,603,139
Riverfront Conservancy	5,700,000	5,400,000	5,400,000	5,100,000	5,100,000
Total Assigned	12,614,849	15,421,004	10,193,004	16,232,097	10,703,139
Unassigned Actual	24,703,786	26,159,373	31,387,373	24,683,786	25,383,786
Actual % of Budgeted Revenue	45.1%	47.4%	52.8%	41.6%	41.4%
Total Fund Balance	45,274,843	48,658,674	43,430,674	48,000,584	43,171,626

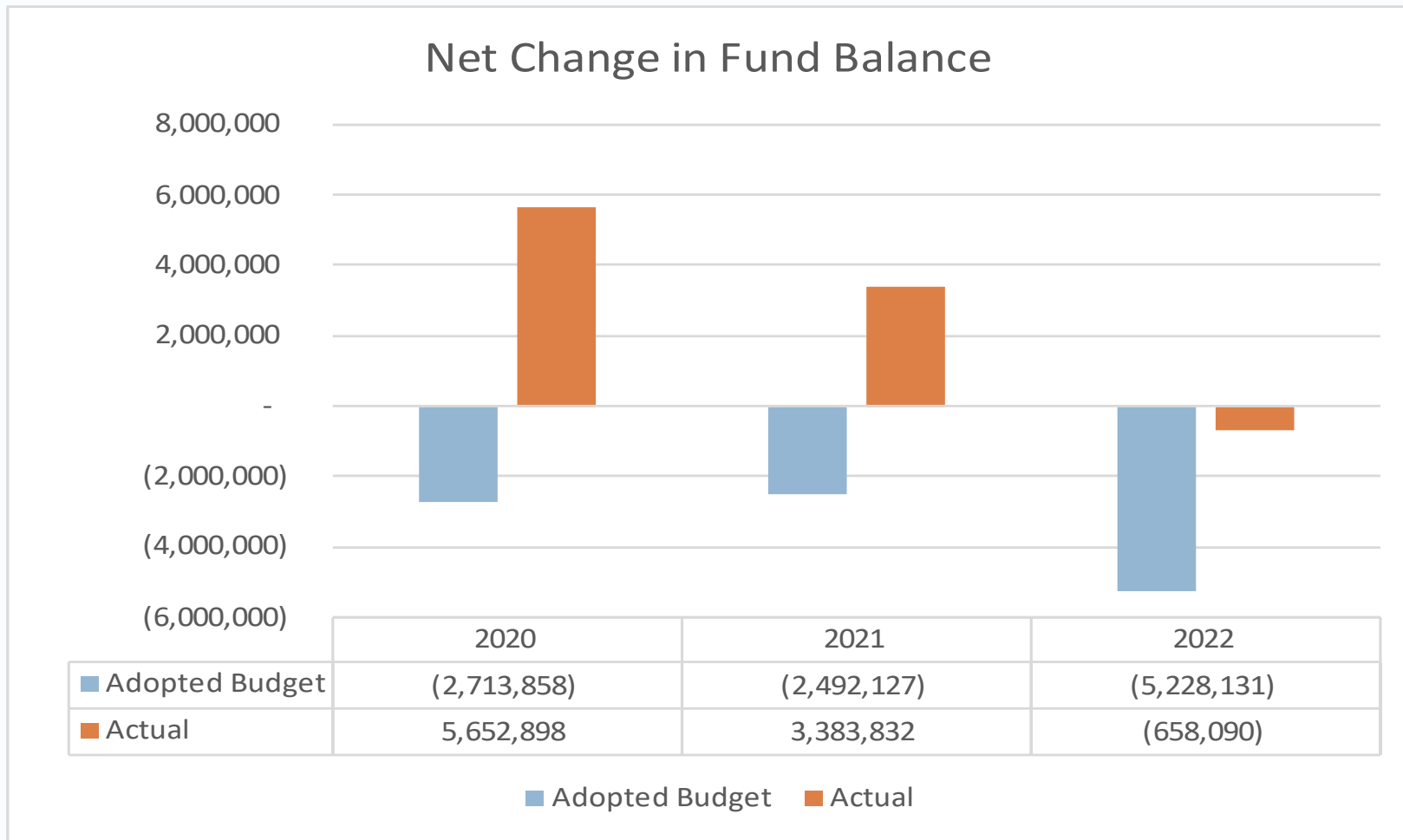
2023 PROPOSED BUDGET

<u>Revenues</u>	2020 Actual	2021 Actual	2022 Adopted	2022 Projected	2023 Department Requested
Taxes	\$ 32,457,957	\$ 33,693,345	\$ 34,642,523	\$ 34,797,815	\$ 36,508,782
Park Operations	21,338,184	24,391,605	23,353,558	23,660,007	23,701,995
State Revenue Sources	597,755	645,395	645,000	645,000	639,000
Interest Income	549,839	118,192	100,000	111,058	100,000
Sale of Capital Assets	170,085	149,650	100,000	140,400	125,000
Grants	935,632	89,548	52,500	113,099	20,003
Gifts/Donations	12,520	1,552	-	9,262	-
Miscellaneous	1,316,447	683,700	179,500	214,310	153,885
Total Budgeted Revenues	\$ 57,378,418	\$ 59,772,987	\$ 59,073,081	\$59,690,951	\$61,248,665
<u>Expenditures</u>					
Equipment	2,175,922	1,769,466	2,173,990	680,702	2,657,500
Land Acquisition	57,527	789,638	-	-	-
Major Maintenance	1,587,804	2,387,447	3,978,705	2,054,514	4,248,952
Administrative Office	9,175,295	10,096,921	12,324,194	11,447,831	13,329,242
Park Operations	33,688,714	36,204,286	38,657,850	38,321,346	40,102,641
Total Operating Expenditures	\$ 46,685,261	\$ 51,247,758	\$ 57,134,740	\$ 52,504,393	\$ 60,338,335
Funding for Capital Project Fund	\$ 5,040,253	\$ 5,141,398	\$ 5,566,473	\$7,844,648	\$ 5,739,288
Total Budgeted Expenditures	\$ 51,725,514	\$ 56,389,155	\$ 62,701,214	\$ 60,349,041	\$ 66,077,623
Budget Revenue over (under) Expenditures	5,652,904	3,383,831	(3,628,132)	(\$658,090)	(4,828,958)
Fund Balance at Beginning of Year	\$39,621,945	\$45,274,843	\$48,658,674	\$48,658,674	\$48,000,584
Total Fund Balance at End of Year	\$45,274,843	\$48,658,674	\$45,030,542	\$48,000,584	\$43,171,626

REVENUES AND EXPENDITURES



CHANGE IN FUND BALANCE



2023 PENSION CONTRIBUTION

2023 Projected Pension Payment	3,000,000
2023 Projected RHC Payment	<u>600,000</u>
2023 Budgeted Amount	3,600,000

INCREASE IN 2023 EXPENDITURES

Breakdown of the Increase in Expenditures

	Equipment	% Increase	Major Maintenance	% Increase	Administrative Office	% Increase	Park Operations	% Increase	Capital Projects	% Increase	Total	% Increase
Personnel Related Expenditures	-	0.00%	43,367	1.09%	18,345	0.15%	438,739	1.13%	-	0.00%	500,452	0.80%
Non-personnel Related Expenditures	483,510	22.24%	226,880	5.70%	986,703	8.01%	1,006,051	2.60%	172,815	3.10%	2,875,959	4.59%
	483,510	22.24%	270,247	6.79%	1,005,048	8.16%	1,444,790	3.74%	172,815	3.10%	3,376,411	5.38%

Sources related to the increase in expenditures includes:

- Board approved swim lessons - Administrative Office (345,000)
- Various engineering professional services - Administrative Office (249,800)
- Software Licenses - Administrative Office (118,540)
- Additional legal, audit, and actuary fees - Administrative Office (64,400)
- Increase for utilities, fuel equipment, and chemicals – Park Operations (526,543). This increase is based upon the difference between the 2022 adopted budget and 2022 projected budget.
- New special programs and events – Park Operations (250,000)
- Increase for graduated seasonal bonus – Park Operations (250,000)
- The detail related to equipment, major maintenance, and capital projects is listed on the next slides.

MAJOR MAINTENANCE

2023 Major Maintenance Projects

	<i>Location</i>	<i>Project</i>	<i>Project Cost</i>
ACCESSIBILITY			
Trails	Lake St Clair	East Boardwalk Re-Surface replacement continued-Phase 3	\$ 350,000
Trails	Kensington	Rebudget-Trail Improvement - Martindale north to Shore Fishing	427,000
Trails	Stony Creek	Rebudget - Bikepath bridge between Winter Cove & Mt Vernon	80,000
Trails	Stony Creek	Trail Maintenance throughout Park	25,000
Trails	Lake Erie	Rebudget-Nature trail boardwalk repairs of Northern Trapper run	35,000
Accessibility Total			\$ 917,000

MAJOR MAINTENANCE CONTINUED

INFRASTRUCTURE				
Aquatics	Lower Huron	Turtle Cove Marcite Repairs - Replace remainder of Lazy River	\$	300,000
Facility Improvement	Kensington	Mulch Installation		21,450
Facility Improvement	Kensington	Rebudget - Boat Launch Building & Seawall Repairs		30,000
Facility Improvement	Kensington	Upgrades to Kensington Park Office		20,000
Facility Improvement	Willow	Willow Upgrade Signage for New Park Office		15,000
Facility Improvement	Hudson Mills	Replace Siding & Roofs at Golf Course Shop, Cart Barn & Chem Bld		160,000
Facility Improvement	Stony Creek	Boiler Replacement at Beach		40,000
Facility Improvement	Stony Creek	Installation of Generator at Park Office		30,000
Facility Improvement	Stony Creek	Mulch Installation		10,230
Facility Improvement	Stony Creek	Update Signage		15,000
Facility Improvement	Lake Erie	Golf Course Maintenance Building - complete siding		15,000
Facility Improvement	Lake Erie	Golf Course Storage Building Siding Replacement		60,000
Facility Improvement	Lake Erie	Rebudget - Dredge Marina Channel and Relocate Spoils pile		150,000
Facility Improvement	Lake Erie	Relocate Spoils Pile at Marina		60,000
Facility Improvement	Wolcott	Demo & Cleanup of newly acquired Wolcott Property		50,000
Facility Improvement	Wolcott	Furnace Replacement at Cow Barn		20,000
Golf Course	Indian Springs	Install Irrigation Head control system at Golf Course		15,000
Golf Course	Huron Meadows	Replace Pump intakes, electric panel & connections at Golf Course		260,000
Infrastructure Improvement	Lake St Clair	Replace Surfside Shelter with Accessible Shelter		85,000
Infrastructure Improvement	Kensington	Dam Safety Logs		92,500
Infrastructure Improvement	Kensington	Rebudget - Dam Concrete Work		247,000
Infrastructure Improvement	Stony Creek	Dam Safety Logs		92,500
Infrastructure Improvement	Stony Creek	Rebudget - Small Well Replacement		30,000
Roads	Lake St Clair	Hike / Bike path crack repairs throughout park		55,000
Roads	Lower Huron	Rebudget - Lower Huron North End Parkway Resurfacing		650,000
Stormwater/Streambank/Shoreline	Lake St Clair	Rebudget - Culvert Replacements-CUL-LSC-002, 029, 009)		26,191
Stormwater/Streambank/Shoreline	Lake St Clair	Rebudget - Stormwater Drainage Repairs on Culverts		45,000
Stormwater/Streambank/Shoreline	Kensington	Rebudget - Replace culverts (CUL-Ken-041,85,89)		17,000
Stormwater/Streambank/Shoreline	Lower Huron	Rebudget-Lower Huron Drainage/Culvert Replace CUL LH 564 Camp Dr		12,090
Stormwater/Streambank/Shoreline	Hudson Mills	Rebudget - Replace Outfalls (SDC-HUD-001, 009, 016)		14,000
Stormwater/Streambank/Shoreline	Stony Creek	Golf Course Bunker Repairs		15,000
Stormwater/Streambank/Shoreline	Stony Creek	Golf Course Water Drainage Phase 3		40,000
Stormwater/Streambank/Shoreline	Stony Creek	Rebudget - Stormwater Drainage Repairs on Culverts		50,000
Stormwater/Streambank/Shoreline	Lake Erie	Rebudget-Drainage/Culvert Replacement-LE036, 005, 006, 015		16,354
Stormwater/Streambank/Shoreline	Indian Springs	Rebudget - Replace Culverts (CUL-IND-22,29,34)		16,000
Utilities	Lake St Clair	Rebudget - North/South Marina Dock Electrical & Water		150,000
Utilities	Stony Creek	Electrical Upgrades at Eastwood Beach from Transformer		120,000
Utilities	Stony Creek	Replace Water line to Eastwood Restrooms		60,000
Utilities	Lake Erie	Rebudget - Replace electric wiring at Marina boat docks		50,000
		Infrastructure Total	\$	3,155,315
		Engineering Wages	\$	176,636
		GRAND TOTAL	\$	4,248,952

CAPITAL PROJECTS

2023 Capital Improvement Projects

	<i>Location</i>	<i>Project</i>	<i>Project Cost</i>	<i>Grant Funding</i>	<i>Net Funding</i>
INFRASTRUCTURE					
New/Renovated Facility	Lake Erie	Wave Pool Mertha Liner and Updates	\$ 4,000,000	\$ 1,000,000	\$ 3,000,000
New/Renovated Facility	Willow	Pumphouse Upgrades	260,000		260,000
New/Renovated Facility	Willow	Roof Replacement	70,000		70,000
New/Renovated Facility	Willow	Salt Storage Closure	20,000		20,000
New/Renovated Facility	Lake Erie	Resurface Outdoor Courts with Outdoor Sport tile	60,000		60,000
New/Renovated Facility	Indian Springs	Playground Redevelopment	600,000		600,000
New/Renovated Facility	Wolcott	Replace Roof on Milk Barn	150,000		150,000
Stormwater/Streambank/Shoreline	Lake Erie	Protecting Lake Erie Marsh with Green Infrastructure	657,743	483,500	174,243
Utilities	Willow	GC UST Fuel Pump Removal/Replacement	230,000		230,000
Utilities	Indian Springs	Remove UST	200,000		200,000
Utilities	Indian Springs	Building Conversion to Support Electric Golf Carts and Generator	230,000		230,000
Utilities	Stony Creek	Install Electricity at 4th Tollbooth	20,000		20,000
Utilities	Lake St. Clair	Rework Electric for Permanent Toll Booths to Connect to 4th Toll Booth	50,000		50,000
Utilities	Stony Creek	Install EV Charging Station	67,000		67,000
Utilities	Kensington	Install EV Charging Station	67,000		67,000
Utilities	Lower Huron	Install EV Charging Station	66,000		66,000
Infrastructure Total			\$ 6,747,743	\$ 1,483,500	\$ 5,264,243
Engineering Wages			\$ 475,045		\$ 475,045
GRAND TOTAL			\$ 7,222,788	\$ 1,483,500	\$ 5,739,288

BUDGET TIMELINE

11/11/2022 – 11/18/2022	All Departments	Director, Deputy Director, Finance review 2023 budget requests
11/19/2022 – 11/30/2022	Finance	2023 Draft Budget Document Preparation for printing
11/22/2022 – 11/26/2022	Director, Deputy Director and Finance	Administrative reviews
11/30/2022	Finance	Final Adjustments to proposed 2023 Budget complete. Will not be reflected in draft document
12/05/2022	Finance	2023 Proposed Draft Budget Document Printing complete
12/08/2022	Finance	Present 2023 General and Capital Improvements Fund Budget at Budget Hearing and Board of Commissioners Meeting
01/02/2023	Finance	Post 2023 Board Approved Budget in system and on web site

THANK YOU





To: Board of Commissioners
From: Jennifer Jaworski, Chief of Interpretive Services
Subject: Report – National Association for Interpretation Award
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file this report as recommended by Chief of Interpretive Services Jennifer Jaworski and staff.

Background: The Metroparks have been awarded a national media award through the National Association for Interpretation for the amazing work that staff has done. This project was in collaboration between Interpretive Services and Marketing and Communications departments. The nomination is listed below.

Pandemic Pivot, 2nd Place
The Metroparks and the Michigan Learning channel = A Summer of Learning and Fun
Huron-Clinton Metroparks

The Metroparks and the Michigan Learning Channel (MLC) align in mission and values by recognizing and providing educational opportunities and alternative resources for families and teachers. Designed to enrich school learning, the instructional content is aligned with Michigan’s educational standards and follows widely accepted sequences for mastering skills throughout the school year.

MLC was interested in seven interpretive videos from our virtual resources series to use in between their regularly scheduled programs during Creatures week July 11 - 17, which is a part of their summer learning broadcasts. https://www.michiganlearning.org/summer-2022/creatures/. These videos showcase engaging interpreters, topics that are aligned to standards and elementary content, and the perfect length and appropriateness for the audience.

- Beavers Along the Trail https://youtu.be/X3kojqS1E6Q
Deer Along the Trail https://youtu.be/utE7Zsjn9bE
Egg Anatomy https://youtu.be/1s2XkG1E5GQ
Eggs And Chicks: Watch Baby Chicks Hatch From Their Eggs https://youtu.be/Jwy-sdLJKLo
Feeding Helga The Tiger Salamander https://youtu.be/uW1-w5nclRo
Foxes of Michigan https://youtu.be/gTM_KEanxqc
Skunks Along the Trail https://youtu.be/8U_TVKrZ0NM

This free programming is being broadcast via special on-air channels established by each of the participating public television stations in Michigan. It is also available as a livestream and stored for on-demand viewing on a variety of digital platforms, ensuring accessibility to all students, teachers, and families across the state.

Our interpretive goal was to engage with a larger audience while developing new partnerships. Objective: by partnering we could reach a larger number of students in the region with an interpretive message to increase understanding of creatures they may see in their own neighborhoods and parks.

Our initial reach out from Detroit Public TV (DPTV) (media partner of MLC) was in March 2022. Videos were shared and partnership solidified in May. Videos were broadcast to the public in July during their "Creatures Week." The budget of this was \$0 since we were recycling and repurposing existing content in new ways with new audiences. Partnering with a strong communication partner in the region.



To: Board of Commissioners
From: Amy McMillan, Director
Subject: Report – 2023 Events/Programs Presentation
Date: November 4, 2022

Background: Chief of Marketing and Communications Danielle Mauter and Chief of Interpretive Services will give a brief presentation to the Board on events and programming for 2023.



To: Board of Commissioners
From: Amy McMillan, Director
Subject: Report – Draft Strategic Plan
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the Draft Strategic Plan as presented by Director Amy McMillan and staff.

Background: The draft Strategic Plan is attached for review. The plan will be presented to the Board at the Nov. 10 meeting.

Attachment: Draft Strategic Plan



METROPARKS

STRATEGIC PLAN

A Three Year Vision

(DRAFT)

WHO WE ARE. WHAT WE DO.

OUR MISSION

To bring the benefits of parks and recreation to the people of southeast Michigan.
All the people. All their lives.

WHAT WE ASPIRE TO BE.

OUR VISION

To be a unifying force — and indispensable resource — in southeast Michigan:
One Region. One Metroparks. Endless Experiences.

WHAT IS IMPORTANT TO US.

OUR VALUES

ACCESS | COMMITMENT | DIVERSITY | ~~draft~~EQUITY | LEADERSHIP | STEWARDSHIP

Details below:

ACCESS: Make the Metroparks available to all in the region, regardless of race, age, income, gender or ability.

COMMITMENT: Treat all employees, constituents and stakeholders as partners in our shared mission to enhance the well-being of all southeast Michigan residents.

DIVERSITY: Embrace and reflect the region's richness — both its natural environment and the communities within it.

EQUITY: Create a system that more fairly serves all individuals, families and communities across the region.

LEADERSHIP: Provide innovative programs, valuable educational offerings and proactive community engagement.

STEWARDSHIP: Responsibly manage our natural resources and maintain financial stability to protect the public's investment.



THREE YEARS OF PLANNING & PROGRESS

As the summer of 2026 ends, the Huron-Clinton Metroparks is celebrating with the people of Southeast Michigan. From pool parties to community picnics, residents are using the Metroparks' resources in ways that are applicable to them. Partner organizations, deeply embedded in neighborhoods and small towns, are hosting events and recording stories from residents. The stories are joyful and easy—they express the tangible and intangible benefits of a world-class park system tailored for their needs. The Metroparks tailored services are only possible with the feedback and partnership of grassroots organizations focused on hyper-local listening and outreach. As a result, resident engagement with Metroparks services are experiencing double digit growth.

The big uptick in engagement is because the Metroparks services have become much easier to access in the last few years. Residents from rural towns like Cohoctah and Ray are making use of programs that were created because of their input and their needs. Detroiters are enjoying easier access to swimming lessons and spaces that help them connect with nature and community. Stories come in from every corner of our five-county region about the learning, the joys, and the connections made because of something the Metroparks supports.

The Metroparks' ability to further our mission of bringing the benefits of parks and recreation to the people of southeast Michigan—all the people all their lives—has earned high praise from major state and national publications. Our new programs have drawn attention and investment from philanthropy and the public sector because of the creativity used adapting to ever-changing community needs.

We're thrilled that our innovations are recognized with investment. These innovations are present in every aspect of our operation, including our rich natural resources, physical infrastructure, financial position, and workforce. In 2022, the Metroparks went beyond managing these resources to stewarding them for greater impact today and tomorrow.

As we celebrate the learning and the progress made over the last three years, we humbly take stock of our accomplishments. We are heartened by the stories of residents who are just learning about the Metroparks and finding usefulness and unexpected delight in the interaction. These stories are celebrated and considered as we embark on our next chapter of service to the Southeast Michigan community.



THE PATH TO VISION 2026: GOALS AND OBJECTIVES



1. LISTEN AND CONNECT

The Metroparks leads by listening to the communities we serve and connecting them to our mission in ways that are useful and equitable.

- Create listening opportunities that help the Metroparks understand resident needs
- Develop a partnership strategy focused on mission-driven organizations that have earned the trust of Southeast Michigan residents
- Increase access for underserved communities
- Increase engagement with Metroparks services
- Increase access to Metroparks services for Wayne County and City of Detroit
- Increase transparency and accountability for progress against goals



2. MAINTAIN AND INVEST

The Metroparks grow by maintaining a healthy financial position that invests in the organization’s relevancy to community members and resulting marketability to funders.

- Study opportunities for investment in capital projects.
- Study revenue opportunities across current and new programs
- Increase revenue from philanthropic and public sector sources
- Study creation of new services for hard to reach and underserved residents
- Develop a talent strategy to attract and retain the intellectual and human capital needed to achieve the vision

3. CONSERVE AND STEWARD

The Metroparks conserves natural resources and actively stewards our impact on and relationship with the environment

- Create a resiliency plan for built and natural environment by December of 2023
- Increase outdoor education opportunities with a focus on skill building for more effective and durable environmental stewardship



STAYING ACCOUNTABLE & REPORTING PROGRESS

Once approved, The Metroparks will develop a web-based dashboard to publish this strategic plan and make it accessible to all staff and the public. The web dashboard will also serve as a continual collection of updates against the progress of each of these goals and objectives with current status and success indicators clearly defined.



To: Board of Commissioners
From: Amy McMillan, Director and Mike Lyons, Deputy Director
Project No: RFP 2022-021
Project Title: Approval – Stormwater Management Consultant
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve RFP 2022-021 to LimnoTech/Drumond Carpenter in the total amount of \$116,100 for consulting services and assistance in developing a regional strategy that will position the Metroparks to take a leadership role in southeast Michigan when it comes to stormwater management research and initiatives.

Fiscal Impact: Funding for the project will come from the board approved 2022 budget, which allowed \$100,000 for these services. Funding will be re-budgeted with proper adjusted amount in 2023 as that is when most of the work will take place.

Scope of Work: Consultant shall provide all labor and materials/supplies necessary to accomplish the following:

- Assist in finding large emerging grant pools and develop a strategy that positions the Metroparks to win current and future grant opportunities.
- Assist in developing regional solutions/strategies to address key issues impacting the region such as stormwater storage, flooding/flood abatement, cold water preservation, water quality, E. coli, eutrophication, pollution, habitat preservation/improvement, and communications/public education for on-going initiatives such as raingardens, impervious surface reduction, addressing runoff, and reducing traditional road salting.
- Assist in the prioritization of initiatives via SWOT analysis to identify areas where the most impact can be made as quickly as possible and assist in developing related project budgets.
- Identify how the Metroparks can pull together its existing climate action and stormwater management plans so that all initiatives are working in tandem.
- Research all existing initiatives, water management plans, and other relevant information from experts/agencies in the region to gain a full understanding of their current and future initiatives and areas with room for improvement.
- Perform an analysis of all available information and to advise on pragmatic next steps that will position the Metroparks as a leader in the region.
- Identify how the Metroparks can pull together its current and future partners' climate action, stormwater management, and other related plans so that all regional initiatives are working in tandem
- Identify properties that could be acquired (and/or properties currently owned) by the Metroparks that could be utilized for stormwater management improvements

Background: The RFP was competitively bid were posted on the Michigan Intergovernmental Trade Network (MITN) website, which provided notice to 237 vendors. Of which, 37 vendors downloaded the solicitation and two submitted a proposal.

The proposals were evaluated in depth by an evaluation committee consisting of the director, deputy director, and various department heads. The evaluation was completed through a two-step process, which included initial proposal evaluations and presentations/interviews. Purchasing completed the cost evaluation and the individual evaluation committee members submitted scores independently for each

of the other evaluation criteria for both proposals, which were then compiled and averaged by the Purchasing department to determine the overall scores.

Upon completion of the first step scoring, it was apparent that both consultants were highly qualified and capable of doing the work. The decision was made to interview both consultants before making an award recommendation. Respondents were given up to 30 minutes to present their proposals and the evaluation committee had up to 30 minutes after the presentation for Q&A, totaling one hour per interview.

After completing both interviews, the evaluation committee met to discuss the results of the interviews. Input was received from the panel and after discussion the decision was made to recommend LimnoTech/Drumond Carpenter. LimnoTech/Drumond Carpenter's proposal is slightly higher (\$116,100 compared to \$99,645); however, LimnoTech/Drumond Carpenter scored slightly higher in project understanding and work plan.



To: Board of Commissioners
From: Travis Grubb, Senior Buyer
Project No: RFP 2022-023
Project Title: Approval – Trail Connection Feasibility Study
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the award for RFP 2022-023 to the PEA Group of Brighton, Michigan, in the total amount of \$276,232 to determine the best and most feasible way to make trail connections between the Metroparks and adjoining public lands and/or regional trails as recommended by Travis Grubb and staff

Fiscal Impact: Funding for the project will come from various under-budgeted line items within the 2022 general fund budget.

Scope of Work: PEA Group shall provide all labor and materials/supplies necessary to provide a feasibility study and preliminary engineering of preferred routes for the following project areas:

1. Lower Huron Metropark to the I-275 Metro Trail
2. Hudson Mills Metropark and Huron Meadows Metropark
3. Kensington Metropark and Indian Springs Metropark (and nearby state recreation areas)
4. Indian Springs Metropark and Stony Creek Metropark
5. Wolcott Mill Metropark to the Macomb Orchard Trail

Background: The RFP was competitively bid, and the solicitation documents were posted on the Michigan Intergovernmental Trade Network (MITN) website, which provided notice to 344 vendors, of which 44 vendors downloaded the solicitation and three submitted a proposal.

The proposals were evaluated in depth by an evaluation committee consisting of the director, deputy director, and staff from the Planning Department.

The evaluation process was completed through a two-step process, which included initial proposal evaluations followed by presentations/interviews. After completing the evaluation process, the evaluation committee reached consensus that PEA Group was the most responsive and responsible consultant.



To: Board of Commissioners
From: Mike Lyons, Deputy Director
Project Title: Approval – Liquor License
Location: Wolcott Mill
Date: October 7, 2022

Action Requested: Motion to approve

That the Board of Commissioners authorize staff to work towards selling the Wolcott Mill Golf Course Liquor License as recommended by Deputy Director Mike Lyons and staff.

Fiscal Impact: Current liquor licenses selling prices available on brokerage sites range from \$50,000 - \$60,000.

Background: In the late 1990s, the Metroparks purchased Northbrook Golf Club located at 21690 27 Mile Road in Ray Township as it connected to Wolcott Mill Metropark. The course was subsequently re-named Wolcott Mill Golf Course; a Resort Class C Liquor License was included with the purchase.

Wolcott Mill Golf Course ceased operations several years ago and the liquor license was subsequently put into escrow. The license can remain in escrow for up to five years. This term will expire on April 30, 2023. By the end of the five-year period, the license must to be removed from escrow and put into service, transferred, or sold.

There are currently no sites at Wolcott Mill Metropark that meet the stipulations for a Resort Class C License; the best option is to sell the license. Stipulations for a Resort Class C Liquor License are listed below.

If any class of resort license is transferred to a new location, it must meet one of the following requirements:

- Be a full-service restaurant, open to the public five hours a day, five days a week, with seating for 100 persons, and food sales must be 50 percent or more of gross receipts.
- Maintain sleeping facilities with a minimum of 25 bedrooms, meeting, and conference rooms capable of accommodating 200 persons, or convention facilities capable of accommodating 200 persons.
- Be a sports or entertainment venue, as defined under R 436.1001(u), which has a capacity of 4,500 or more.
- Be located on a golf course that is open to the public and has at least 18 holes that measure at least 5,000 yards.



To: Board of Commissioners
From: Travis Grubb, Senior Buyer
Project Title: Purchase/Approval – Cooperative Purchase of Toro Grounds Equipment
Locations: Willow, Huron Meadows, Indian Springs, Kensington, Hudson Mills, Lake Erie
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the cooperative purchase of various pieces of Toro grounds equipment in the total amount of \$541,080.08 from Spartan Distributors of Auburn Hills, Michigan through Sourcewell’s cooperative contract #031121-TTC as recommended by Senior Buyer Travis Grubb and staff.

Fiscal Impact: Funds will come from the Board-approved 2022 Capital Equipment budget (as amended), which allowed a total of \$496,000 (all from the early adopted 2023 budget) for these purchases. The total price of \$541,080.08 is \$45,080.08 over budget. The additional funds required will come from the current balance in the capital equipment budget and savings realized from future capital equipment purchases.

Scope of Work: Furnish and deliver the following equipment:

Equipment Description	Warranty	Location	Price
Toro Groundsmaster 5900	Three-Year Extended (Five Years Total)	Kensington	\$ 134,726.00
Toro Groundsmaster 4000-D	Three-Year Extended (Five Years Total)	Willow	\$ 92,408.19
Toro Reelmaster 5510-D	Three-Year Extended (Five Years Total)	Willow	\$ 84,783.47
Toro Groundsmaster 5410-D	Three-Year Extended (Five Years Total)	Indian Springs	\$ 83,803.20
Toro Greensmaster 3150-Q	Standard Two-Year	Huron Meadows	\$ 43,865.64
Toro ProCore 864 Aerator	Standard Two-Year	Hudson Mills	\$ 35,520.44
Toro ProCore 648S Aerator	Standard Two-Year	Huron Meadows	\$ 34,913.39
Toro ProPass Top Dresser	Standard Two-Year	Lake Erie	\$ 20,343.18
Toro ProForce Debris Blower	Standard Two-Year	Hudson Mills	\$ 10,716.57
TOTAL:			\$ 541,080.08

Background: The Metroparks are eligible to participate in Sourcewell’s cooperative contract program. Through this cooperative contract with Spartan Distributors, the Metroparks were able to secure a 22 percent discount from list price for these pieces of equipment, which resulted in a total discount of \$147,004.06. In addition, staff was able to negotiate pre-delivery inspection and equipment setup fees out of the purchase price, which resulted in \$20,861.85 in savings.

The new pieces of equipment will replace existing equipment in the Metroparks fleet that is recommended for replacement. Existing pieces will be sold at the annual auction after delivery of the new equipment.



To: Board of Commissioners
From: Travis Grubb, Senior Buyer
Project No: ITB 2022-029
Project Title: Purchase – Electric Golf Cart Fleet
Location: Indian Springs Metropark
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the purchase of a new electric golf cart fleet for the Indian Springs Metropark Golf Course in the amount of \$559,230 from Textron, Inc. of Augusta, Georgia, the lowest responsive and responsible bidder as recommended by Senior Buyer Travis Grubb and staff.

Fiscal Impact: Funds will come from the Board approved 2022 Capital Equipment budget as amended, which allowed \$600,000 for this purchase. The total of \$559,230 is \$40,770 in favor of the budget.

Scope of Work: Textron, Inc. will furnish and deliver 70 EZ-GO RXV Elite electric golf carts to the Indian Springs Metropark Golf Course and provide transport of the existing fleet of carts from Indian Springs to Kensington Metropark Golf Course, which replaces Kensington existing fleet. Kensington’s existing fleet will be sold at the first available auction after delivery of the new carts.

Background: The proposed purchase was competitively bid and posted on the Michigan Intergovernmental Trade Network’s website, which provided notice of the solicitation to 61 vendors. Of the 61 notified vendors, eight downloaded the ITB documents and three submitted bids, which are summarized below:

<u>Vendor</u>	<u>Location</u>	<u>Price</u>
Textron, Inc.*	Augusta, GA	\$559,230.00
Midwest Golf & Tur	Commerce Township, MI	\$573,493.90
Jujube LLC	Sunnyvale, CA	\$691,000.00

() Indicates recommended award*



To: Board of Commissioners
 From: Randy Rossman, Chief of Human Resources and Labor Relations
 Subject: Approval – Health Insurance Program Renewal
 Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners accept the recommended renewal for the 2023 employee and retiree health insurances as recommended by Chief of Human Resources and Labor Relations Randy Rossman and staff.

Fiscal Impact: The proposed 2023 Metroparks general fund budget includes sufficient funding for the recommended changes.

Background: Due to good claims experience over the last renewal period we have received an overall premium increase of \$92,066 or 2.4 percent for the Metroparks medical insurance program. Staff proposes adding to the Medicare Advantage policy the Silver Sneakers program and hearing aid benefits. These changes will bring the actual overall annual cost of the Medical program to \$114,112 or a 3 percent increase.

Per our contractual agreements with the employee associations, the amount of the employee contributions should be equal to the amount over the PA 152 hard cap. The 2023 renewal increase puts the plan cost for active employees over the state mandated PA 152 2023 hard cap by \$88,371. The PA 152 2022 hard cap amounts have an increase of 1.3 percent vs. the 2022 hard cap amounts.

Staff has reviewed the rate renewal increase with the Employee Association, POLC and COAM representatives. After meeting with employees, the representatives agree with our recommendations below.

HDHP PPO Medical Plan (Option #1):

Staff recommends no plan change for the active employee HDHP PPO 2000/4000 (Option #1). This plan will have a 4.7 percent increase.

HDHP HMO Medical Plan (Option #2):

Staff recommends no plan change for the active employee HDHP HMO 1500/3000 (Option #2). This plan will have a 5.5 percent increase.

HDHP PPO Medical Plan (Option #3):

Staff recommends adding for the active employees an HDHP PPO 3000/6000 (Option #3). This plan will have a higher deductible and out of pocket cost to employees while offering a lower per pay cost option. Adding this option will add no additional cost to the overall health insurance program.

Medical Plans Employee Contributions:

The active employee bi-weekly contribution for the HDHP PPO 2000/4000 (Option #1) is as follows: Single \$9.24; 2 Person \$22.18; Family \$27.72.

The HDHP HMO 1500/3000 (Option #2) premium is less than Option #1 therefore the employee bi-weekly contribution is as follows: Single \$0.50; 2 Person \$1.19; Family \$1.49.

The HDHP PPO 3000/6000 (Option #3) premium is less than Option #1 therefore the employee bi-weekly contribution is as follows: Single \$0.50; 2 Person \$1.19; Family \$1.49.

The employee contributions amount to 3.3 percent of the annual premium cost or an estimated \$88,371 annually.

Pre-65 HDHP Retiree: Staff recommends no plan change for the pre-65 retiree HDHP. This plan will have a 4.7 percent increase.

Pre-65 PPO Retiree: Staff recommends no plan change to the pre-65 retiree Community Blue PPO plan. This plan will have a 4.3 percent increase. This plan is currently in place for employees who retired prior to February 2013, including those retirees who retired in the negotiated early retirement window.

Medicare Advantage: Staff recommends a change to the Medicare Advantage plan for post-65 retirees. This plan has a \$54,669 renewal decrease in annual premium.

Staff recommends adding the silver sneakers program to the plan. This program provides benefits to retirees in this group at local exercise facilities. Also, we are proposing adding benefits for hearing loss testing and purchasing hearing aid durable medical equipment. The annual cost to add both of these benefits is \$22,046 leaving a \$32,624 decrease in the annual premium.

Dental Carrier Change: Staff recommends no plan change to the employee and retiree dental plan through Delta Dental. This plan will have no change in premium for 2023.

Vision: Staff recommends no plan change to the employee and retiree Vision plan through EyeMed. This plan has no change in cost. This plan will have no change in premium for 2023.

Life & Disability: Staff recommends no plan change to the employee and retiree life and disability plan through the Hartford. This plan will have no change in premium for 2023.

Overall Health Insurance Program Summary: The overall cost summary for the 2023 health insurance program is an increase, over 2022 rates, to the Metroparks of \$31,730 or 0.7 percent as follows:

Medical - BCBS HDHP(s) & HMO	\$ 121,505
Pre-65 Retiree HDHP	19,754
Pre-65 Retiree PPO	5,477
Retiree Medicare Advantage	(54,670)
Dental Plan	0
Vision Plan	0
Life & Disability Plan	0
	<hr/>
Sub-total 2023 Increase	\$ 92,066
Retiree Medicare Advantage Plan Change Increase	22,046
Employee Contributions Increase 2023 over 2022 amounts	(82,382)
Projected 2023 Increase	\$ 31,730



To: Board of Commissioners
From: Randy Rossman, Chief of Human Resources and Labor Relations
Subject: Approval – HR Succession Plan
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners accept the proposal to add an additional employee to the Human Resources Department as recommended by Chief of Human Resources and Labor Relations Randy Rossman and staff.

Fiscal Impact: The estimated additional cost to the 2022 Human Resources budget would be \$65,367. The estimated cost for the additional position to the 2023 budget would be \$102,395, including eliminating a part-time position.

Background: Over the past few years, the Metroparks have had several key employees leave or retire. The process of filling these key positions with a qualified replacement candidate with the needed knowledge, skills and abilities can be lengthy. Having a replacement employee in place and trained before a planned vacancy occurs allows the Metroparks to continue running smoothly after a key employee leaves or retires.

The Metroparks Human Resources Department anticipates two upcoming retirements within the next three years. There are currently three full-time and two part-time employees budgeted for the department. In order to prepare for the two pending vacancies and begin the training process right away staff is proposing posting an additional full-time employee to the Human Resources Department as soon as possible. A review of the need for the additional position would be conducted after the first retirement, possibly reducing the department back to the current position roster by the fall of 2024.

As the scope of duties for the Human Resources Department has increased over the years, it has become increasingly more challenging to find time to implement new programs or improve current processes and procedures.

In addition to properly covering the Human Resources increased duties and preparing for future vacancies, the Metroparks bargaining unit agreements will expire on Dec. 31, 2023. The entire department will need time to assist with the negotiation process throughout the year. Department-specific tasks would include assisting with research on wages, benefits and non-financial items; preparing, reviewing and interpreting contract language; and organizing leadership and employee communications. Having the additional person in the department during this time would be helpful to the department and the new employee, who would be gaining valuable knowledge during this important time.



To: Board of Commissioners
From: Shedreka Miller, Chief of Finance
Subject: Report – Monthly Financial Review
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the monthly Financial Review as submitted by Chief of Finance Shedreka Miller and staff.

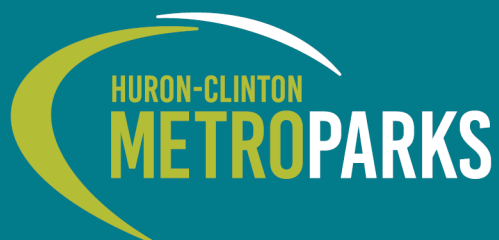
Attachment: Monthly Financial Review



HURON-CLINTON METROPARKS OCTOBER FINANCIAL RECAP

NOVEMBER 2022

Administrative Office
13000 High Ridge Drive
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)



TABLE OF CONTENTS

Executive Summary	4
Administrative Revenue	5
Park Operating Revenue	6
Expenditures	11

EXECUTIVE SUMMARY

OCTOBER 2022 FINANCIAL RESULTS

For October 2022, operating revenue increased \$291,455 or 33.1 percent and vehicle entries increased 8 percent in comparison to 2021. The year-to-date park operating revenue of \$22.8 million is \$228,268 lower compared to 2021 and \$2.9 million higher compared to the five-year average. No significant changes to administrative revenue took place during October.

Tolling increased for daily sales and decreased for annual sales in comparison to 2021. October daily permit sales are 22 percent higher than 2021. October annual permit sales are 4.8 percent lower than 2021. Year-to-date tolling revenue is \$699,940 or 7 percent lower than 2021 figures.

Tolling and golf are the largest contributors to operating park revenue in October 2022. Combined, tolling and golf made up 77 percent of park operating revenue. Tolling generated \$349,678 and golf added an additional \$551,098. All other park operating activities produced over \$271,000.

Overall, year-to-date general fund expenditures are up \$3.4 million or 7.3 percent over 2021. There was a \$2.9 million increase in expenditures related to Capital Improvement Projects compared to 2021.

In summary, the Metroparks continue to be well positioned financially. Revenues remain strong, are higher than the 5-year average, and expenditures remain within planned budgets.



ADMINISTRATIVE REVENUE

Metroparks administrative revenue consists of all revenue sources that are not generated directly by park operations. Tax revenue accounts for the majority and is the single largest source of revenue for the Metroparks.

Interest rates continue to increase, which has resulted in higher interest income. We have already exceeded the original budget of \$100,000 by 26 percent.

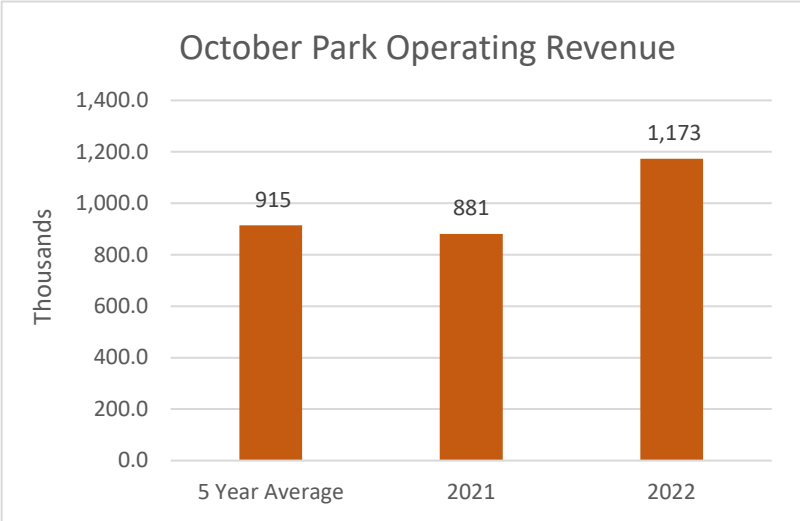


PARK OPERATING REVENUE

BY ACTIVITY

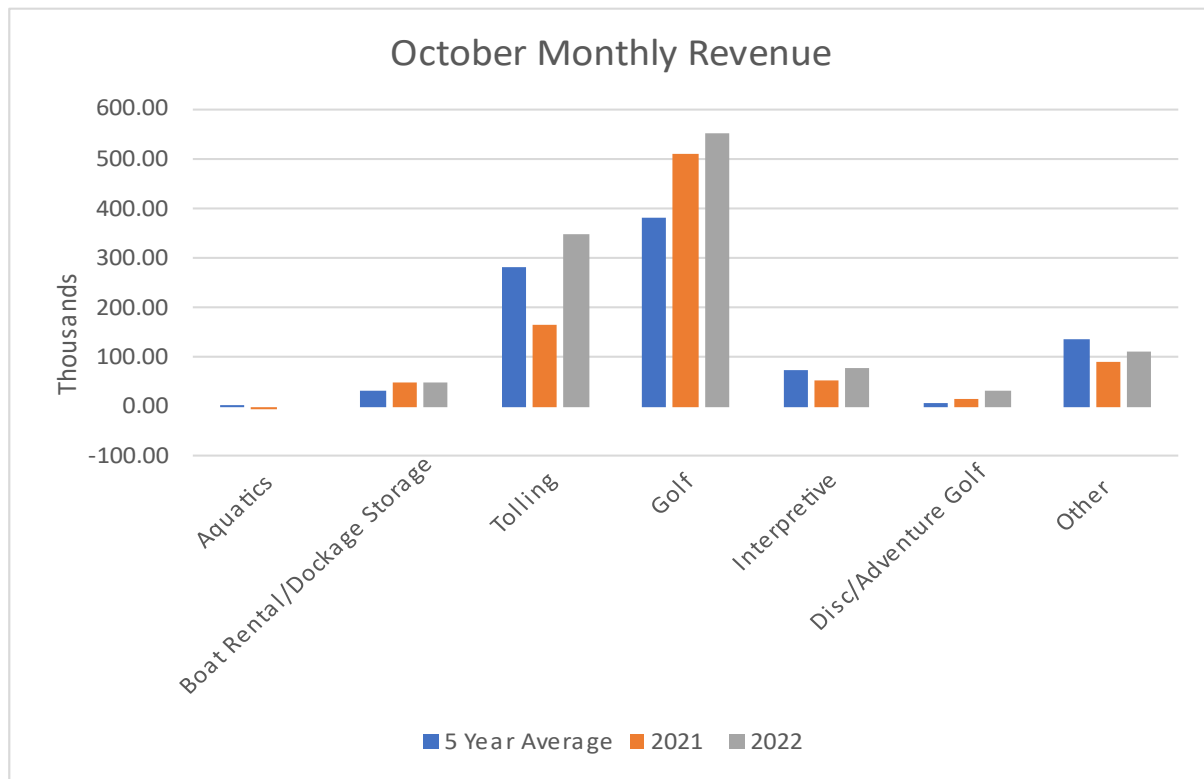
The parks generated \$1.2 million in revenue during October 2022 compared to \$881,223 in 2021. The 5-year average for operating revenue is \$915,081.

October park operating revenue increased \$291,455 or 33.1 percent compared to 2021 and \$257,597 or 28.2 percent compared to the five-year average.



Breaking down park operating revenue by the activity, the most significant source of revenue is golf. The \$551,098 generated was higher than 2021 and the five-year average by \$41,216 or 8 percent and \$169,427 or 44 percent.

The tolling and other categories were the second and third largest sources of operating revenue for the month. The other category consists of special events, camping, shelter reservations, facility rentals, and any additional leases/rentals. Tolling revenue was higher than 2021 and the five-year average by \$183,489 or 110 percent and \$67,283 or 24 percent. Other operating revenue was \$22,516 or 25 percent higher than 2021 and \$22,561 or 17 percent lower than the five-year average.



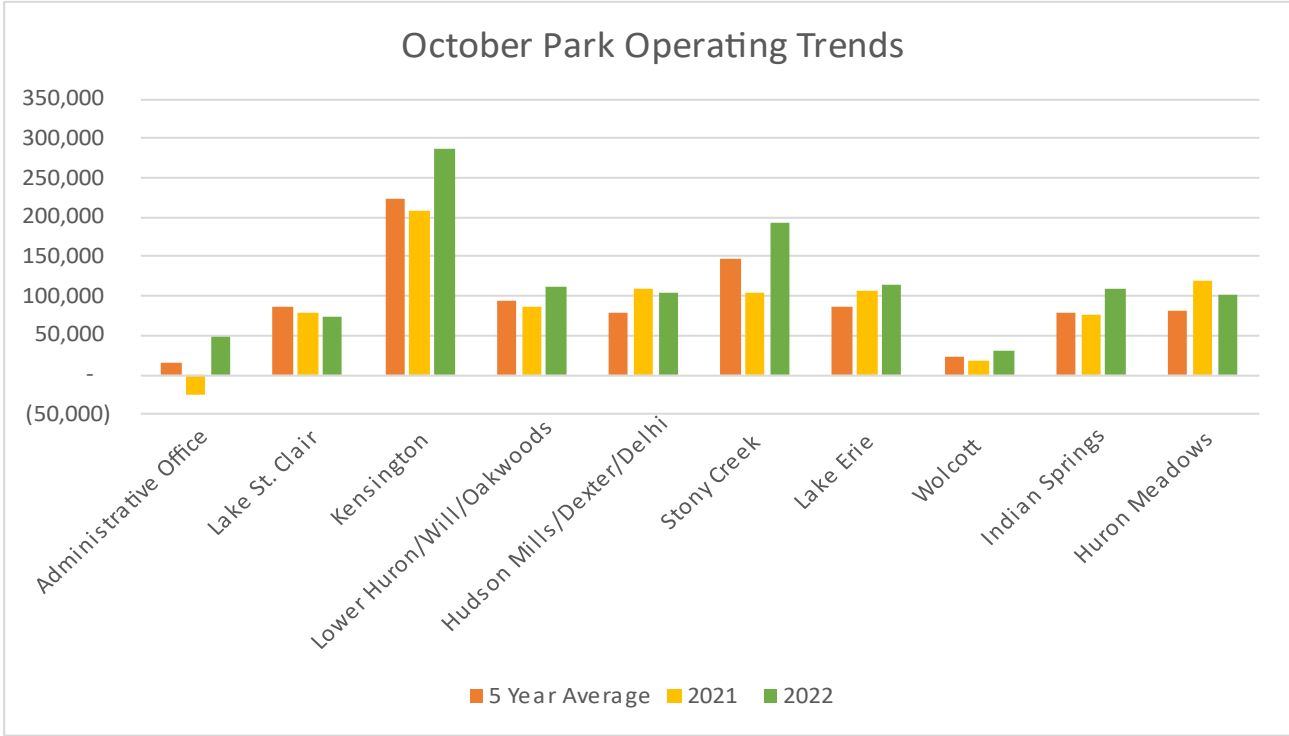
BY LOCATION

October 2022 park operating revenue increased compared to 2021 and the five-year average. The parks generated \$1.2 million in operating revenue during October 2022 compared to \$881,223 in 2021 and \$915,081 for the five-year average.

October 2022 operating revenue in total increased compared to October 2021 and the five-year average by \$291,455 or 33.1 percent and \$257,597 or 28.2. Kensington, Stony Creek, and Lake Erie generated the most revenue for October 2022. October operating revenue for Kensington, Stony Creek, and Lake Erie was \$287,909, \$192,783, and \$114,305.

In the chart below, the variance between 2022 and 2021 figures range between an increase of \$89,700 and a decrease of \$17,400. The variance between 2022 and the five-year average ranges between an increase of \$64,000 and a decrease of \$13,400.

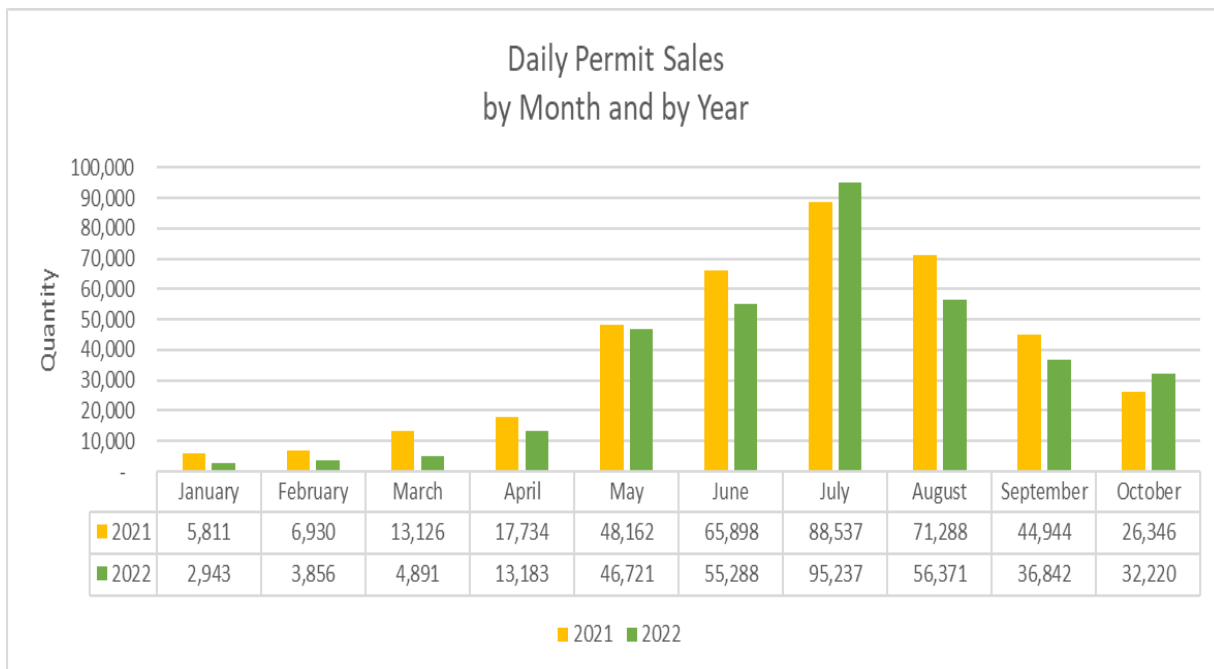
The changes are reflected in the chart below:



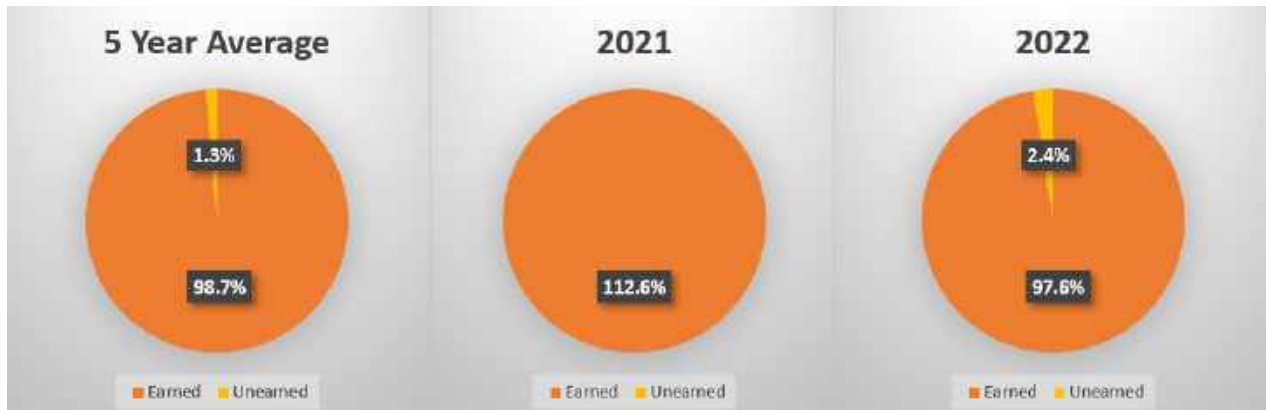
Year-to-date annual permit sales for 2022 are down 8.9 percent from 2021. Annual permit sales for October 2022 decreased 4.8 percent compared to 2021.



Daily permit sales in October increased 22 percent compared to 2021.



Considering year-to-date revenue, the parks show a slight decline in revenue compared to the prior year. Year-to-date revenue is still higher than the five-year average. The pie charts below reflect the revenue earned at the end of October compared to the budgeted revenue not yet earned.



At the end of October 2022, we have generated 97.6 percent of budgeted operating revenue earned. We were around 112.6 percent and 98.7 percent for 2021 and the five-year average.

EXPENDITURES

ADMINISTRATIVE OFFICE

Overall, year-to-date Administrative Office expenditures are ahead of 2021 by \$598,559 or 7.7 percent. Increases in full-time wages/benefits make up 49.6 percent of the total variance. A portion of the remaining variance is related to the five-year community recreation plan study, and various engineering surveys/studies.

MAJOR MAINTENANCE AND CAPITAL

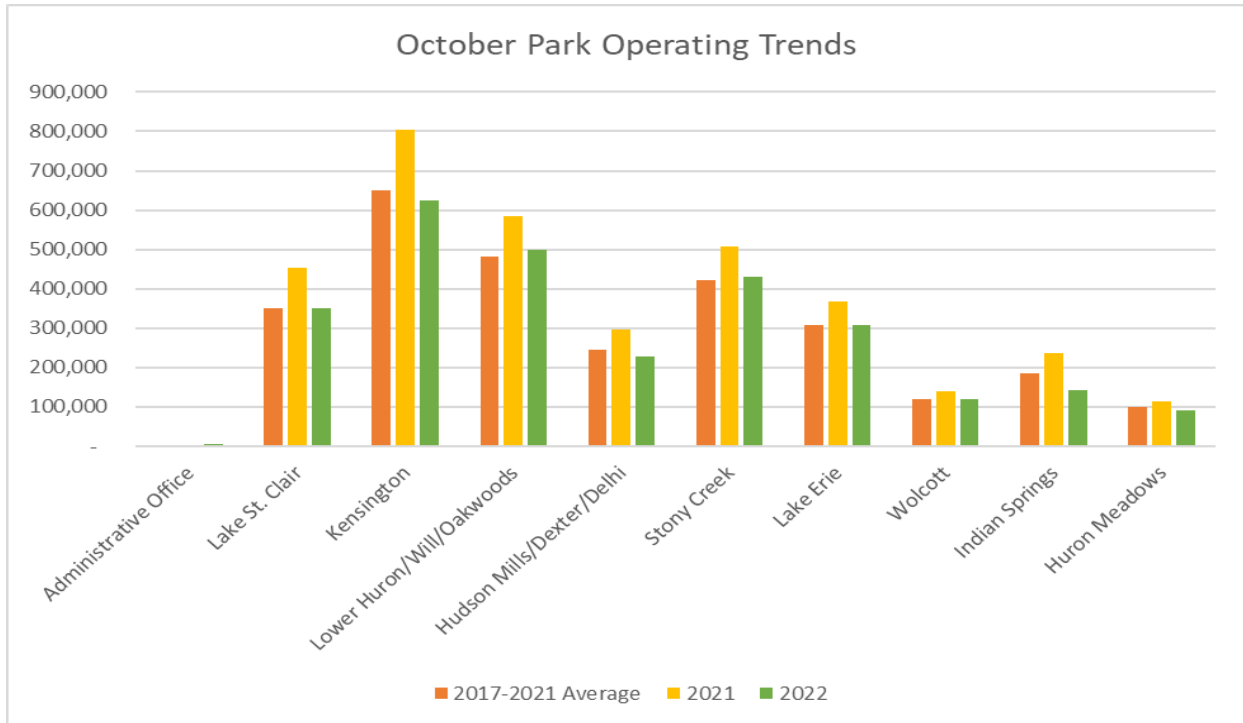
Approximately 44percent of planned capital equipment and land acquisition purchases have been either paid for or encumbered. The 2022 budget was amended in August 2022 by \$2.7 million to order equipment for 2023. Payments during the month of October totaled \$87,283 or 1.7 percent of the budget.

As of the end of October, 30 percent of major maintenance projects have been either received or contracted for. October payments for major maintenance totaled over \$107,105 or 2.5% of the annual major maintenance budget.

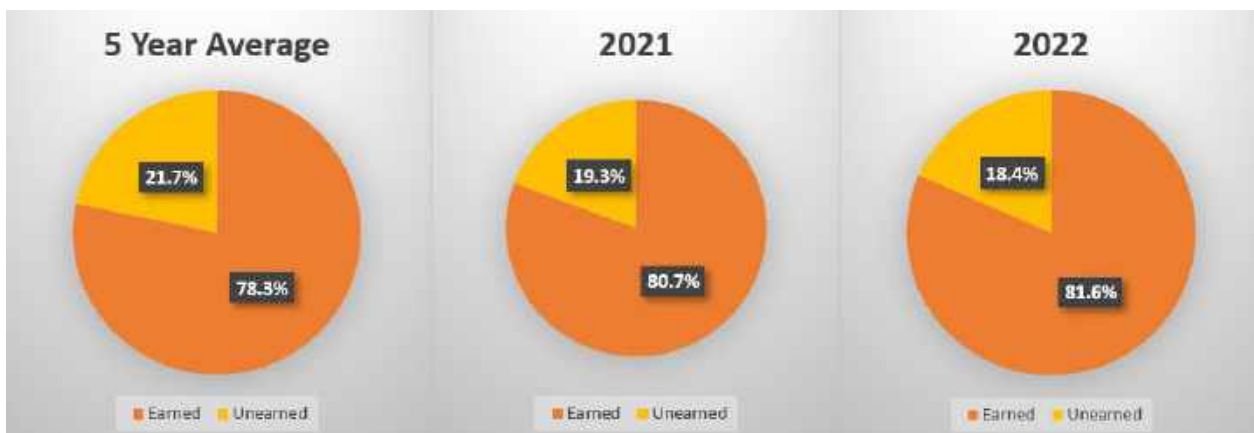
PARK OPERATIONS

Overall, year-to-date park operation expenditures are \$2.1 million or 7.3 percent higher than the 2021 year-to-date level. Increases in employee wages/benefits make up \$1.2 million or 56 percent of the variance. Increases in utilities and equipment fuel make up 41 percent of the remaining variance.

Looking at individual parks for the month of October, the variance in operating expenditures between 2022 and 2021 ranges between an increase of \$1,100 and a decrease of \$180,000.



At the end of October, we have used 81.6% of the annual budget, the amount was 80.7 percent for 2021 and 78.3 percent for the five-year average.





To: Board of Commissioners
From: Sarah Plumer, Chief of Planning and Development
Project Title: Approval – Metropark Master Plan Updates
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve 2022 updates to the master plans Delhi, Dexter-Huron, Huron Meadows, Indian Springs, Willow, Oakwoods and Lake Erie Metroparks as recommended by Chief of Planning and Development Sarah Plumer and staff:

Fiscal Impact: Projects identified in each park master plan will affect the Metroparks budget over the planning horizon, but there is no immediate fiscal impact with this update.

Background: The original master plans were developed over the course of six months during 2017 and 2018 and approved by the Board to guide the long range (10-year timeline) planning of developments for the park.

During the initial planning process, the intention to maintain these master plans as living documents was communicated. This five-year update, therefore, focuses on the following:

1. Major changes to facilities, infrastructure, and programming
2. Updated needs and opportunities
3. Status of original action items
4. Any new actions identified to help meet goals and policies

Staff have also updated the following sections:

- Revenue
- Visitation
- Demographic/socioeconomic population data
- Community and supporting plan documents

Planning and Development staff invited representatives from each administrative department and park operations and maintenance staff to form a steering committee to guide the update process. Public input was collected at the county level with responses to the facility and needs assessment regional survey performed as part of the Community Recreation Plan in the spring of 2022.

Staff anticipates completing an entirely new 10-year master plan for all Metroparks commencing in 2027 and 2028.

Attachments: Updated Delhi Master Plan Draft
Updated Dexter-Huron Master Plan Draft
Updated Huron Meadows Master Plan Draft
Updated Indian Springs Master Plan Draft
Updated Willow Master Plan Draft
Updated Oakwoods Master Plan Draft
Updated Lake Erie Master Plan Draft

DELHI METROPARK MASTER PLAN



5 Year Update to 2018 - 2028

DRAFT



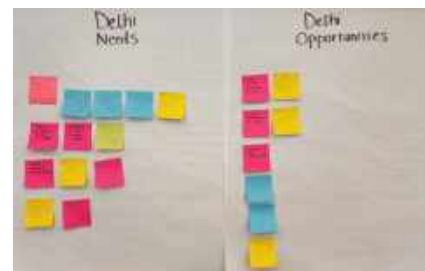
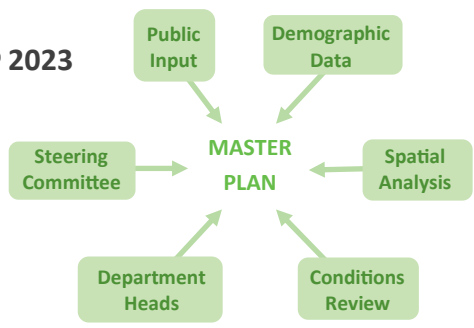
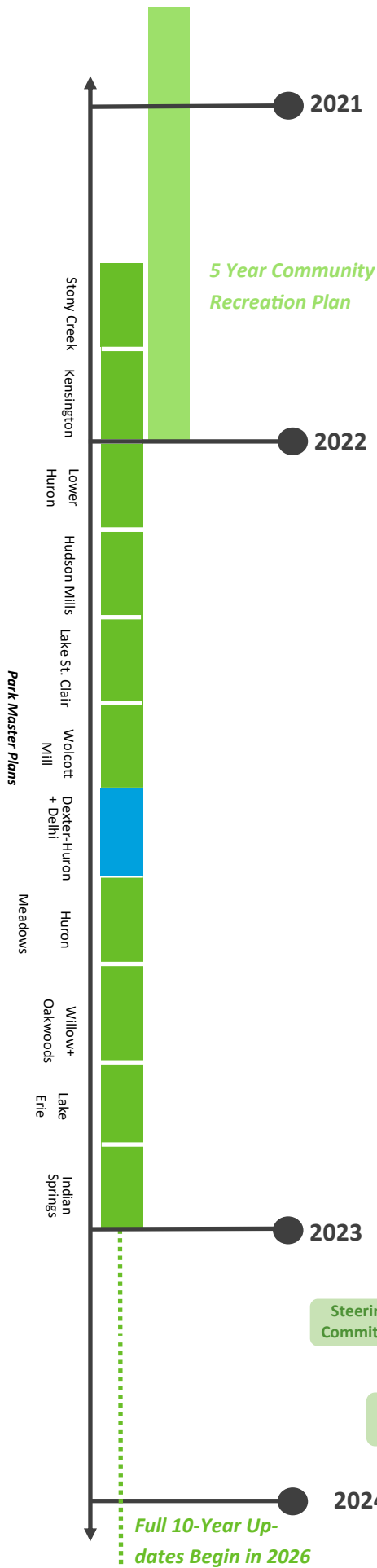
Introduction

Planning Process

The five-year update is an opportunity for each of the 13 Metroparks to review their master plan and make sure it is still relevant. This review includes 1) major changes to facilities, infrastructure and programming in the park; 2) updated needs and opportunities; 3) completed action items; and 4) any new actions necessary to implement the goals and policies for the park. One of the most important components is the public input collected through meetings, questionnaires, and online comments, all of which influence plan recommendations. A master plan steering committee was formed to include park employees with exceptional knowledge of Dexter-Huron/ Delhi and surrounding community who, along with the experienced Metroparks administrative department heads provided their professional opinions.

The Planning and Development Department also included updates to the demographic and spatial data to inform recommendations. Demographic data looks at the density, age, income, language, and other factors of the regional population. Spatial data, usually analyzed through Geographic Information System (GIS) software, looks at the physical location of the parks in relation to other recreation opportunities, transportation facilities, population centers, important natural resources, and more. Finally, the planning staff conducted a review of park conditions to identify areas needing improvement and areas experiencing success.

The master plans are intended to be living documents, modified as needed to reflect changing conditions in the parks with this review every five years. However, they focus on park developments over ten years, and will be updated through a more comprehensive planning process at the end of the planning horizon.



The Steering Committee met on 07/27/2022

REVENUE

Revenue Sources

2021 Operations Revenue

Revenue Source	2021 Total \$	% of Revenue
Tolling	675,070.95	40.8%
Golf	794,349.84	48.0%
Disc Golf	34,778.26	2.1%
Boat Rental	67,578.48	4.1%
Special Events	4,339.73	0.3%
Shelter Reservations	28,134.82	1.7%
Group Camp	3,866.17	0.2%
Cross Country Ski	90.00	0.0%
Interpretive	9,300.00	0.6%
Intergovernmental	3,121.07	0.2%
Miscellaneous	35,075.67	2.1%
	\$1,655,704.00	100%

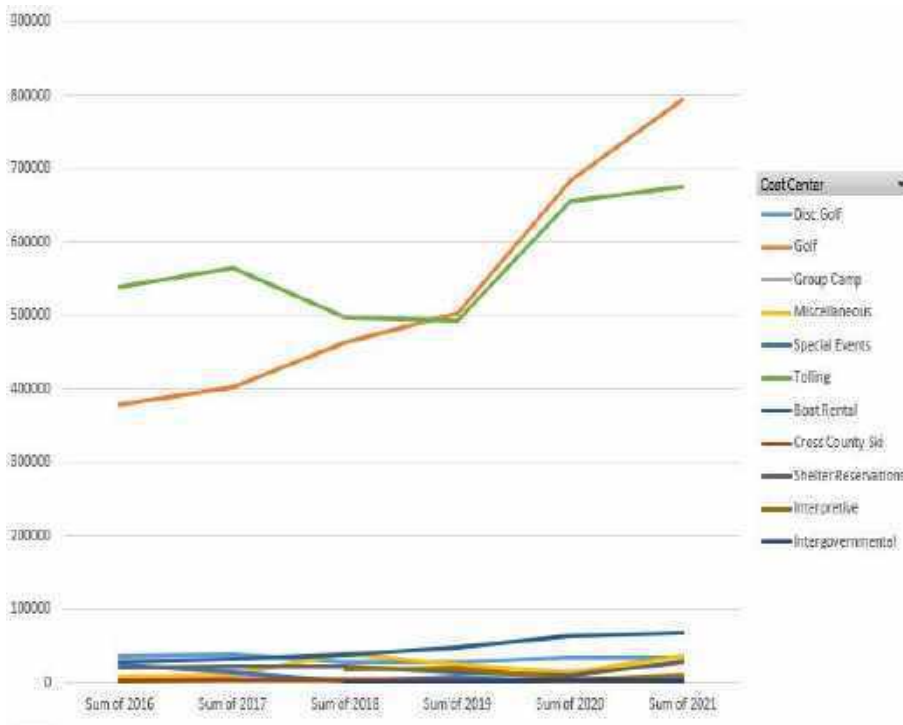
NEEDS

Diversify sources of revenue

Offer new and exciting activities/ programs to visitors to both boost tolling and gather user fees

OPPORTUNITIES

REVENUE TRENDS 2016-2021—Hudson Mills, Dexter-Huron, Delhi



The Metroparks 2021 General Fund revenue equaled \$59,729,968. The 2021 operations revenue for Hudson Mills was approximately \$1,655,704, comprising 2.7% of all Metroparks revenue.

As the chart illustrates, nearly all Hudson Mills revenue comes from park entrance tolling and golf.

Hudson Mills, Dexter-Huron, and Delhi are considered together in the budgeting process, and the budgeted 2022 operations revenues for the three parks are \$1,478,429, while estimated 2022 operations expenses are \$2,984,416. Property tax and other revenue will subsidize 50.5% (\$1,505,987) of the parks' operating budget.

*2021 Operations Revenue was irregular due to the COVID pandemic.

Visitors

Dexter-Huron and Delhi Metropark are regional parks and can draw from the approximately 1,900,000 Michigan residents that live within a 30 mile radius (approximately a 45-minute drive) of them. Certain events and activities may draw visitors from greater distances.

Vehicle entries are combined for Hudson Mills, Dexter-Huron and Delhi Metroparks, and have hovered between 200,000 and 300,000 since 2016. Record entries of 299,492 were recorded in 2020, fluctuating through the years but overall moderately growing. Planning staff facilitated a data collection initiative in July and August 2018 to record visitors entering the park using a motor vehicle. Over three days, each visitor was asked to provide the number of persons per vehicle (PPV), whether the car used an annual pass and whether the visitor/s had a dog with them.

Consolidation of statistical information is needed to better assess vehicle entries, park users, event attendance, event participants and activity participation within the park. This information will help with marketing of events, activities and future analysis of the park.



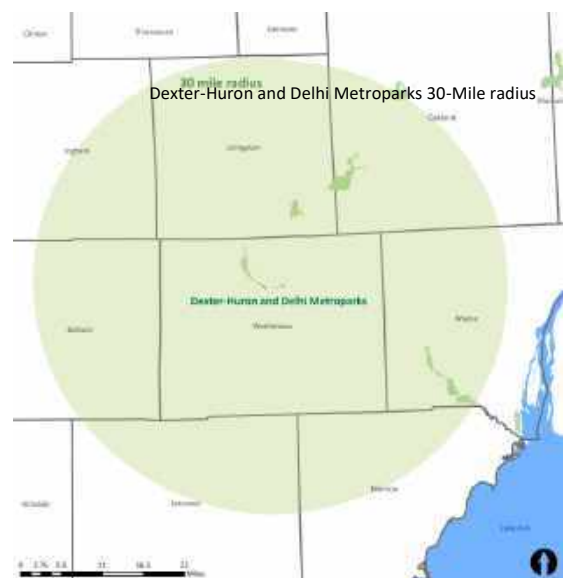
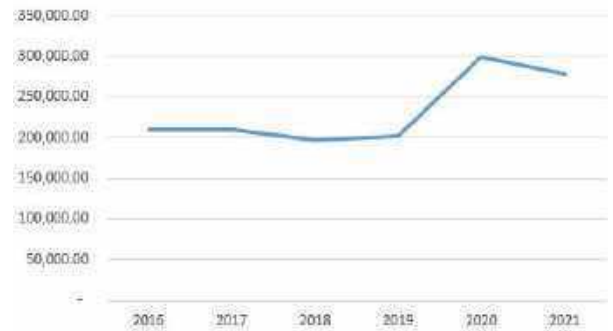
NEEDS

Target market strategy

Take advantage of proximity to urban population to grow revenue and system awareness

OPPORTUNITIES

VEHICLE ENTRIES 2016-2021



Programs & Events



Dexter-Huron and Delhi combined with Hudson Mills hosts dozens of events each year, organized either by park staff or outside groups. Many of these are interpretive programs for both children and adults to explore the natural and cultural assets of the park. Some promote artistic enrichment and others encourage physical activity or advocate for a cause. The significance of the Huron River with Michigan’s first residents-both Native and European is an important component in the parks for providing context to many of the interpretive programs for visitors.

NEEDS

Increase revenue and visitation

Build on enthusiasm of Kensington visitors with exciting, engaging programs and events

OPPORTUNITIES

2022 Integrated Marketing Plan

Educational and public programs looked much different than “average” in 2020. Staff adjusted to ever-changing situations of the pandemic to continue serving visitors on multiple platforms using virtual and hybrid programs, as well as small-group, in person, outdoor programs. These new practices will carry over into 2022 and staff will continue working collaboratively to provide exciting new experiences for the Hudson Mills communities in ways that are safe and engaging.

2020-2022 Recreation Programming Plan

In 2022, the Metroparks amended the 2020-2022 Community Recreation Plan to include a Recreation Programming Plan.

An important element of programming is accessibility and ensuring all programs, events, and services are compliant with the American Disability Act (ADA) requirements.

To achieve this, the Metroparks has begun self-evaluation of all programming and services offered by each department. Each program was categorized into groups of similar activities (e.g. programs, events, activities) and will then be analyzed each activity in terms of vision, hearing, and mobility barriers



COMMUNITY INFLUENCES

Population

The Metroparks were created at the time of the auto boom, when it was assumed that every family would have a car to take out to the countryside on the weekends. Since habits and lifestyles are changing, the Metroparks must look into innovative ways to provide access to the parks for all.

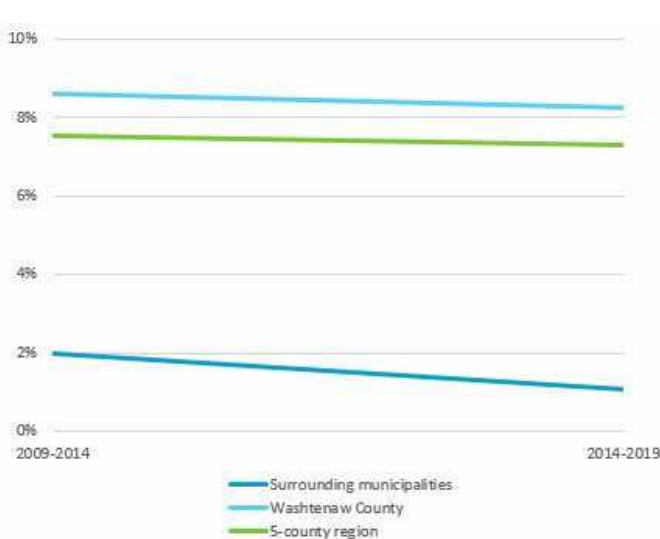
The percentage of individuals over 65 years of age is rising quickly in the region, in Washtenaw County, and most dramatically in communities surrounding the parks. Older adults have distinct needs, often requiring accommodations for mobility and accessibility of park features such as trails and buildings. This is important to keep in mind when planning the future of a park serving an older population.

NEEDS

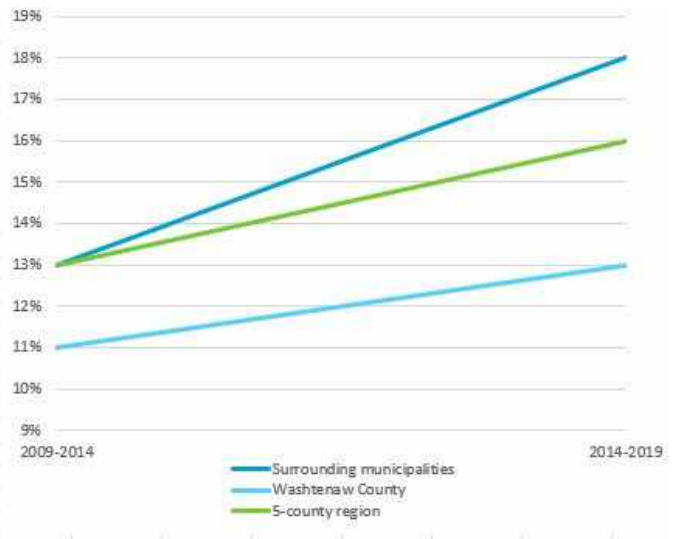
Address changing needs of new population demographics

Draw new users with a connected, accessible, welcoming and safe park environment

OPPORTUNITIES



CHANGE IN PERCENT OF HOUSEHOLDS WITH NO CARS AVAILABLE, 2009-14 through 2014-19 (Source: US Census American Community Survey)



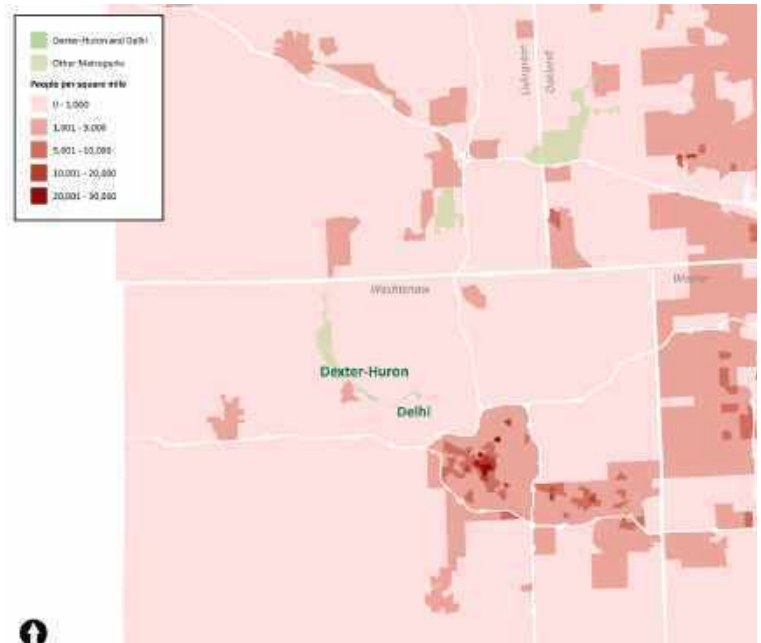
CHANGE IN PERCENT OF POPULATION OVER 65 YEARS, FROM 2009-14 through 2014-2019 (Source: US Census American Community Survey)

Community Influences

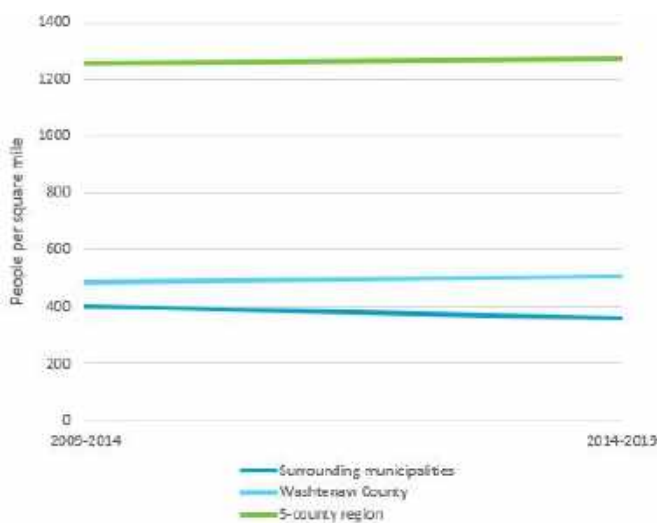
As shown below, Dexter-Huron and Delhi are located in a lower residential density area than many other Metroparks, with the majority of land use characterized as residential. The majority of the area directly bordering the park have an average population between 0 and 1,000 people per square mile. The City of Dexter attributes to the higher residential density area of 1,001-5,000 people per square mile adjacent to Dexter Huron. Associated with the noted demographic change will be the impact on housing trends. The aging baby boomers will seek different housing options than past generations of seniors. The desire will be for mixed use walkable environments with more compact smaller housing units, along with more time for passive recreational opportunities that will continue to increase in the surrounding communities.

The population density of the 5-county region and Washtenaw slightly increased overall. However, surrounding municipalities slightly decreased which will have a more direct impact on the two parks. Staying aware of development changes in the area will be important to gauge recreation needs.

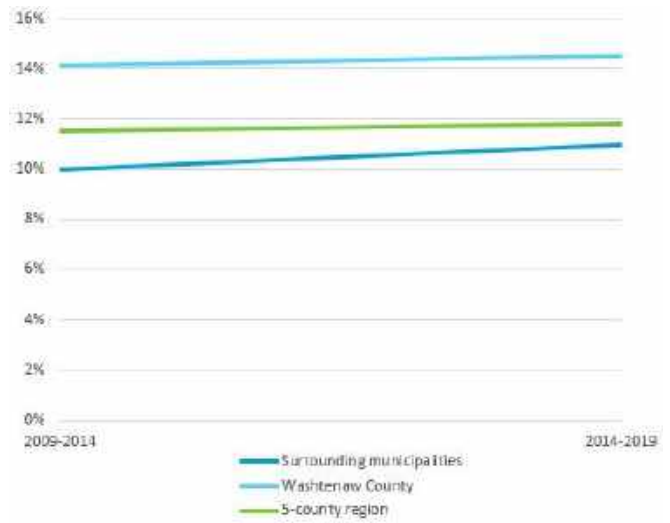
Although most households in the area still speak English as their first language, the communities around Dexter-Huron and Delhi had a dramatic rise in households speaking languages other than English at home, most notably the Asian population. Both Washtenaw County and the region at large are seeing a slight increase in households speaking languages other than English at home. Because of this growing linguistic diversity the Metroparks are working towards more universal signage design, with a focus on easily understandable symbols.



POPULATION DENSITY BY BLOCK GROUP 2014-19



CHANGE IN AVERAGE POPULATION DENSITY, 2009-14 through 2014-19
(Source: US Census American Community Survey)



CHANGE IN PERCENT OF HOUSEHOLDS SPEAKING LANGUAGE BESIDES ENGLISH AT HOME, 2009-14 through 2014-19 (Source: US Census American Community Survey)

PUBLIC INPUT

← Outreach Process

2022 Community Needs and Assessment

ETC Institute administered a needs assessment survey for Huron-Clinton Metroparks (HCMA) during the Spring of 2022. The survey was administered as part of Metroparks’ efforts to establish and priorities improvements to the parks system, which included 13 parks covering more than 25,000 acres in Wayne, Oakland, Macomb, Livingston and Washtenaw counties. The survey and its results will guide HCMA in taking a resident-driven approach to making decisions that will enrich the future of the community and positively affect the lives of all residents in southeast Michigan.

ETC Institute mailed a survey packet to a random sample of households in Livingston County, Macomb County, Oakland County, Washtenaw County, Wayne County (outside the City of Detroit), and the City of Detroit.

Location	Completed Surveys	% Precision
<i>Livingston County</i>	479	±4.5%
<i>Macomb County</i>	511	±4.3%
<i>Oakland County</i>	583	±4.1%
<i>Washtenaw County</i>	514	±4.3%
<i>Wayne County (Outside Detroit)</i>	407	±4.9%
<i>City of Detroit</i>	405	±4.9%
Total	2,899	±1.8%

The table above shows the number of completed surveys collected in each of the six sampling areas. The table also shows the margin of error at the 95% level of confidence for each area.

The results presented in this report have been weighted to represent each sampling area’s share of the population of the Huron-Clinton Metroparks service area. The weighted results give more weight to the responses from the larger sampling areas, including Macomb County, Oakland County, Wayne County (outside Detroit), and the City of Detroit, and similarly gives less weight to the responses of the smaller sampling areas, including Livingston County and Washtenaw County

Priorities for Parks & Recreation Facility Investments in the Huron-Clinton Metroparks Service Area

The Priority Investment Rating (PIR) was developed by ETC Institute to provide organizations with an objective tool for evaluating the priority that should be placed on Parks and Recreation investments. The Priority Investment Rating (PIR) equally weighs:

- the importance that households place on each facility/ amenity/ activity/program
- how many households have unmet needs for the facility/

Facility	Priority Investment Rating (PIR)
<i>Trails-paved, multi-use (walking, biking)</i>	189.2
<i>Beaches</i>	174.7
<i>Natural areas</i>	145.7
<i>Trails-unpaved, nature trails</i>	139.7
<i>Trails-unpaved, hiking</i>	137.2
<i>Nature centers</i>	114.2
<i>Canoe/kayak launch sites</i>	110.2
<i>Outdoor swimming pools</i>	107.9

Results

Washtenaw County

The table below shows the Priority Investment Ratings (PIR) for parks and recreation facilities, based on the PIR analysis conducted using the data from Washtenaw County households. The following 6 facilities were rated as high priorities for investment:

- Paved multi-use trails for walking and biking
- Unpaved trails, nature trails
- Unpaved trails for hiking
- Beaches
- Natural areas
- Canoe/kayak launch sites

Facility	PIR	Priority
Trails-paved, multi-use (walking, biking)	175.5	High Priority (PIR=100-200)
Trails-unpaved, nature trails	159.1	
Trails-unpaved, hiking	155.7	
Beaches	147.4	
Natural areas	137.7	
Canoe/kayak launch sites	105.8	
Outdoor swimming pools	97.5	Medium Priority (PIR=50-99)
Nature centers	92.4	
Canoe/kayak rentals	76.2	
Fishing banks or docks	69.3	
Camping areas-primitive sites	62.0	
Picnic tables	59.3	
Trails-mountain biking	55.8	Low Priority (PIR=0-49)
Picnic shelters	53.1	
Playgrounds	46.6	
Splash pad (water play area)	42.1	
Waterslides	41.8	
Golf driving ranges	41.2	
Camping areas-RVs	41.2	
Boat ramps	37.8	
Camping areas-group sites	37.8	
Golf courses	34.9	
Disc golf	22.0	
Boat docks	21.0	
Marinas	10.0	

The table below shows the Priority Investment Ratings (PIR) for parks and recreation programs, based on the PIR analysis conducted using the data from Washtenaw County households. The following 14 programs were rated as high priorities for investment:

- Concerts
- Art/photography
- Movies in the park
- Swim lessons
- Walking clubs/programs
- Water fitness programs
- Pet-friendly programs
- Environmental education programs
- Camping
- Astronomy programs
- Bird-wildlife watching programs
- Guided nature hikes
- Fishing programs
- Natural/cultural history

Program	PIR	Priority
Concerts	194.4	High Priority (PIR=100-200)
Art/photography	175.1	
Movies in the park	173.9	
Swim lessons	166.8	
Walking clubs/programs	164.6	
Water fitness programs	162.6	
Pet-friendly programs	150.9	
Environmental education programs	132.9	
Camping	129.0	
Programs for people with disabilities	126.7	
Astronomy programs	126.2	
Bird/wildlife watching programs	125.0	
Guided nature hikes	121.7	
Fishing programs	114.2	
Natural/cultural history programs	108.7	
Guided canoe/kayak tours	105.5	
Farm educational programs	98.0	Medium Priority (PIR=50-99)
Golf lessons	83.6	
Boating classes	80.6	
Guided motorized boat tours	70.3	
Homeschool programs	59.1	Low Priority (PIR=0-49)
Running clubs/programs	50.0	
Virtual programs	35.3	
Scouting	31.8	
Golf tournaments	29.9	

Table 14: PIR Ratings for Parks & Recreation Programs in Wayne County, MI (outside of Detroit)

NEEDS

Improve connectivity within the park and with the community

Create good working relationship with surrounding municipalities

OPPORTUNITIES

Understanding the goals and plans of municipalities and other organizations bordering and/or containing Dexter-Huron and Delhi is essential for a collaborative, comprehensive planning process. Planning staff researched previous park plans along with the published master plans and recreation plans of surrounding municipalities, counties, other agencies. These provided a basic idea of the direction planned for each, especially regarding land use, development, and recreation.

Border-to-Border Trail (B2B)

- The Dexter-Huron Metropark to Zeeb Road project is 1.2 miles long and includes two pedestrian bridges over the Huron River.

Washtenaw County Parks and Recreation Commission (WCPARC) Master Plan: Dexter to Ann Arbor

- In 2019, WCPARC completed a Master Plan for the B2B between Dexter and Ann Arbor. The plan serves as a guiding document for detailed design and engineering and will involve a great deal of coordination with many agencies, municipalities and organizations.

Master Land Use Plan Scio Township, Michigan

- Dexter-Huron is located in the Mill Creek Sub Area of the future land use plan. Development strategies include encouraging non-motorized routes to provide interconnected system of trails and support implementation of the B2B Trail. Also, this area is being promoted to establish recreational needs of the residents including passive uses, soccer fields and ball fields. Delhi is located in the Huron River Sub Area. Development strategies in this area include coordinating with HCMA for parkland and open space

Projects/Initiatives

acquisition and development, along with preservation and enhancement of the historic character of Delhi Mills and the Delhi Bridge.

City of Dexter Master Plan, Amended 2016

- A number of existing and anticipated circumstances will affect Dexter's future. These include a growing population, decentralized places of employment with increased commuting distances and conversely, an increase in those working from home. These factors together with the attraction of the Ann Arbor area as a place to live and work will provide development opportunities within Dexter and the surrounding communities for years to come.

Economic Impact of the Huron River Report

- In 2016, Huron River Watershed Council commissioned a study to measure the economic impact of the Huron River on local communities, focusing on Huron River Water Trail activities and the value of natural systems that maintain a healthy, clean river. The study results show a \$53.5 million dollar benefit to the local economy from direct and indirect spending each year.



MUNICIPALITY MAP

Supporting Plans

Community Recreation Plan

The Dexter-Huron/Delhi Plan is aligned with the Metroparks Community Recreation Plan 2018-2022 that creates an inventory of existing facilities and resources, identifies community and recreation and open space needs and sets a plan of action for a 5-year period. To be eligible to apply for Land and Water Conservation Fund, Michigan Natural Resources Trust Fund, and Waterways grants, a community must have an approved 5-Year Plan on file with the Michigan Department of Natural Resources (DNR) by February 1 of the year they intend to apply.

Marketing Plan

Realizing the importance of marketing and communication, the Dexter-Huron/ Delhi Master Plan will coincide with updates to the Marketing Plan 2022 Goals and Strategies, developed annually by the Marketing and Communications Department. Both are living documents that will closely follow both present and future marketing trends and work in collaboration amongst various departments.

ADA Transition Plan

The Metroparks Board of Commissioners approved an updated Americans with Disabilities Act (ADA) Transition Plan in November 2019. Moving forward, top priority projects will be added into annual capital and major maintenance improvement projects and identified in the Five-Year Community Recreation Plan and 10-year master plan (five-year amended) developments.

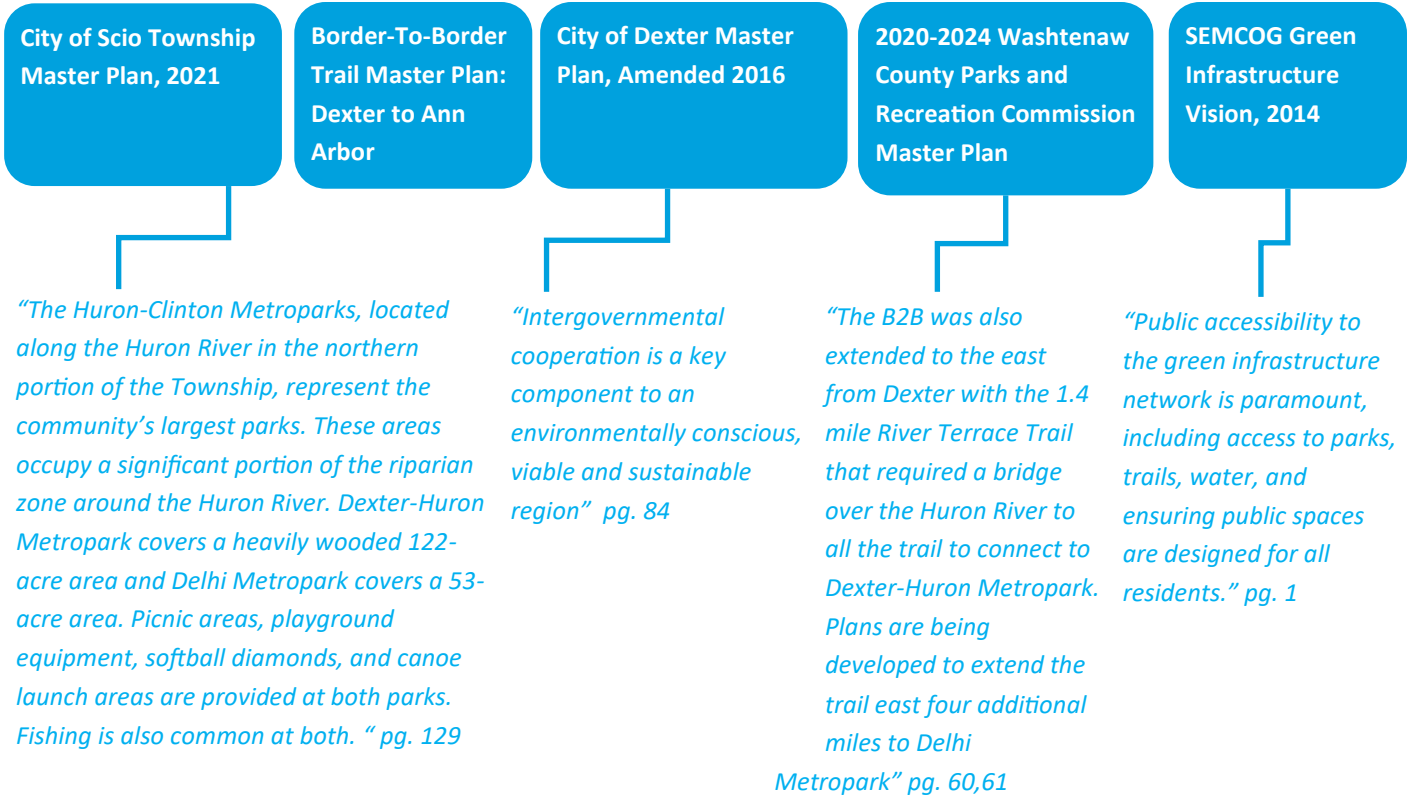
Stormwater Management Plan

The Stormwater Management Plan (SWMP), approved by the Board of Commissioners in 2019, provides a comprehensive review and analysis of the existing stormwater conveyance system for improvement and maintenance projects that prioritize reduction of impacts on water quality. It includes concepts and preliminary details for the design, construction, and operation and maintenance of the stormwater system for each Metropark (separated into individual chapters). Vetted by a committee of administrative departments and Dexter-Huron/Delhi operations and maintenance staff, recommendations include green infrastructure development, shoreline and streambank restoration, and culvert and outfall cleanouts and replacements. Cost estimates were developed for each project, and calculation tables were included to help with budgeting (adjusting for inflation) in the future.



Community Influences

Relevant Planning Documents



Since the development and land use decisions of bordering communities and other governmental agencies directly impact the park, these neighbor master plans were reviewed and taken into account when creating this document. The opinions and ideas expressed by residents and leaders in these municipalities give Dexter-Huron and Delhi a wider context and in many cases underscore the importance of the park’s resources to citizens.

Dexter-Huron and Delhi Metroparks are part of a broader system of recreation and green space that includes other Metroparks as well as local, county and state parks and greenways. Due to this, recreation and green infrastructure plans were also considered in creating the Dexter-Huron and Delhi Master Plan. Many communities are currently advancing their non-motorized networks, seeking grant funding to create greenways and paths and cooperating to provide linked green and recreation spaces to their constituents.



Action Plan

Needs & Opportunities

Based on the assessment of park conditions, demographic research and spatial analysis, public input, and staff input, the needs and opportunities listed throughout this document were developed. [5-year updates are in blue text](#)

Needs

- Continue to draw diverse range of visitors to the parks
- Define and protect areas with important biodiversity features
- Better educate the importance of preserving important cultural features
- Address aging and overbuilt infrastructure
- Identify areas of facility duplication for repurposing and consolidation
- Work with county and local communities to address any boundary issues for both parks
- Replace outdated, confusing, inconsistent signs
- Pursue improvements to park accessibility
- Diversify sources of revenue
- Target market strategies for facilities (Skips)
- Increase revenue and visitation
- Address changing needs of new population demographics
- Improve connectivity within the parks and with the community
- Incorporate variety of opinions and user groups into master plan
- Maintenance of facilities for successful operations

Opportunities

- Build on both parks character to attract new visitors
- Create a resilient network of biodiverse areas in the parks
- Draw new visitors with programming/education based on history of the parks
- Redevelop park areas to better serve visitors and environment
- Provide unique recreational facilities to draw visitors from across the region
- Create good working relationship with neighbors and partner organizations
- Create consistent, convenient wayfinding system to give visitors confidence
- Ensure that users of all abilities feel empowered to take full advantage of the parks
- Offer new and exciting activities/programs to visitors of the parks to both boost tolling and gather user fees
- Take advantage of proximity to urban population to grow revenue and system awareness
- Build on enthusiasm of Dexter-Huron/Delhi's visitors with exciting, engaging programs and events
- Draw new users with a connected, accessible, welcoming and safe park environment
- Create good working relationship with surrounding municipalities
- Maintenance plans and scheduling for facilities (hike-bike trails)
- Create vibrant park through robust, transparent public outreach



With these in mind, the following list of projects, plans, and studies was developed. Major and minor projects have been identified as priorities and assigned a timeline and the accompanying studies have been listed. These pages should serve as a blueprint for the future of the parks over the next ten years.

Large Facilities

Park*	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Del	Redevelop playground at Delhi	Planning	Eng, Ops, Maint	MDNR, Contractors,	TBD			x	Long-Term
Del	Implement improvements to canoe livery site and operations (resulting from assessment)	Eng	Plan, Ops, Maint	MDNR, Contractors	TBD	x			In Design
Both	Support extension of Border-To-Border (B2B) in both parks	Planning	Eng, Ops, Maint	WCPARC, Contractors	TBD	x	x	x	Ongoing
Dex	Construct congregated, multi-age playground at Dexter-Huron	Planning	Eng, Ops, Maint	MDNR, Contractors	TBD		x		Not started



*Abbreviation for both parks (Dex = Dexter-Huron, Del = Delhi) ** Abbreviation for departments (Eng = Engineering, Plan = Planning, Int = Interpretive Services, Ops = Operations, Maint = Maintenance, NR = Natural Resources, Mrkt = Marketing CR = Community Relations)

Infrastructure / Small Facilities

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Accessibility improvements, including interiors, walkways, and site amenities - parkwide	Eng	Plan, Ops	Contractors	TBD	x	x	x	Ongoing
Del	Develop Delhi connectivity plan	Eng	Plan, Ops, Maint	MDNR, Contractors	TBD			x	Not started
Del	Develop parking improvement plan (resulting from parking study)	Eng	Ops, Maint	MDNR, Contractors	TBD			x	Not started
Dex	Replace roof on West shelter at Dexter-Huron	Eng	Ops, Maint	MDNR, Contractors	\$4,000				Complete
Dex	Implement accessible shelter amenities conceptual plan	Planning	Ops, Maint	MDNR, Contractors	TBD	x	x	x	Ongoing
Del	Improve Canoe/Kayak river access at East Delhi	Planning	Engineering, Ops, Maint		TBD			x	Not started



Natural Resources

Park	Description	Department Lead	Other Department	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Vegetation Management (annual)	NR	Plan, Ops	MDNR, Contractors	\$30,000	x	x	x	Ongoing
Both	Early detection, rapid response. Invasive species surveys and control in high quality natural areas (annual)	NR	Int	NGOs	\$10,000	x	x	x	Ongoing
Both	Wildlife management (annual)	NR	Ops, Maint, Police	MDNR	Staff time	x	x	x	Ongoing
Both	Conduct Prescribed fire in adapted native communities	NR			\$4,000	x	x	x	Ongoing
Both	Oak wilt control and prevention (annual)	NR	Ops, Int	MDNR	\$4,500	x	x	x	Ongoing
Both	Shoreline restoration and protection	NR	Ops, Plan	Contractor, NGOs	\$150,000	x	x	x	Ongoing
Both	Implement in-river restoration initiative (following feasibility study)	NR	Plan, Eng	MDNR, NGOs	\$150,000	x	x	x	Ongoing
Both	Huron River viewshed improvement initiative: open up and maintain views to the river from key locations in West Delhi and Dexter-Huron	Plan	NR, Maint		staff time	x	x	x	Ongoing

Area Plans/Studies/Initiatives

After identifying the need for changes or improvements based on user feedback and staff research, in-depth evaluation and planning must be carried out to gain a detailed understanding of problems and opportunities and determine the best strategies based on existing conditions and resources. Sometimes a process to formally monitor facility usage and gauge popularity is necessary. These studies often result in a scope of work, a work plan, and in some cases a site plan that give staff a roadmap for planned changes. Recommended studies are listed below:

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	In-river and riparian restoration feasibility study: Assess feasibility of conducting in-river or riparian restoration to address identified threats to the Huron River ie. sedimentation, erosion, peak flow, nutrient contamination, etc.	NR	Plan, Eng, Ops	MDNR, HRWC, NGOs	staff time		x		?
Del	Delhi connectivity plan: Identify opportunities for linking Delhi parcels via trails to improve paddler access to parking	Plan	Eng, Ops, Maint, NR	MDNR	staff time				Complete
Both	Parking study: consider reconfiguration of West Delhi parking lot	Plan	Eng, Ops, Maint, NR	MDNR	staff time			x	Not started
Both	Parking study: evaluation of parking use patterns for canoe livery and East Delhi, potential increased demand at Dexter-Huron with new trail section	Plan	Eng, Ops, Maint, NR	MDNR	staff time				Complete
Del	Canoe livery operations assessment: investigate opportunities to improve operations of Skip's Canoe Livery for maximum benefit to the Metroparks while avoiding conflict with other park uses	Plan, Ops	Eng, Maint	MDNR, Skip's	staff time	x			In Design

Signage

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Del	East Delhi Trailhead	Planning	Main, Ops		TBD		x		Not started
Both	New Branding System-Wide	Marketing	Main, Ops, Int		TBD	x	x	x	Ongoing



Area Plans/Studies/Initiatives (cont'd)

Park	Description	Department Lead	Other Department	Other Partners	Cost Estimate	Short-Term (2018-2022)	Mid-Term (2023-2027)	Long-Term (10+ years)	Status
Dex	Historic study/survey: West shelter at Dexter-Huron	Int	Plan, Eng, Ops	Consultant	TBD				Complete
Both	Environmental sustainability initiatives	NR, Purchasing	Ops, Plan, Eng		TBD	x	x	x	Ongoing
Both	Establish Invasive Species Control Tracking Website	NR	IT	MNFI, MISIN	staff time	x	x	x	Ongoing
Both	Stormwater monitoring	NR		NGOs	\$5,000	x	x	x	Ongoing
Both	Herpetological surveys	NR		NGOs	\$15,000	x	x	x	Ongoing
Both	Electric Vehicle (EV) Stations	Planning	Engineering, Operations		staff time		x		Not Started

DEXTER-HURON METROPARK MASTER PLAN



5 Year Update to 2018 - 2028

DRAFT



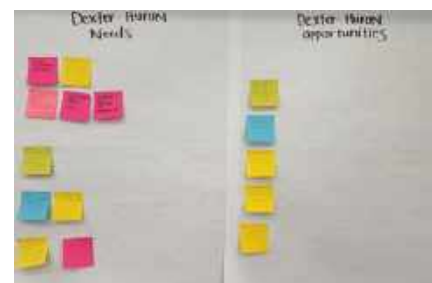
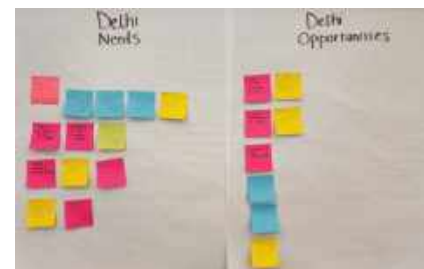
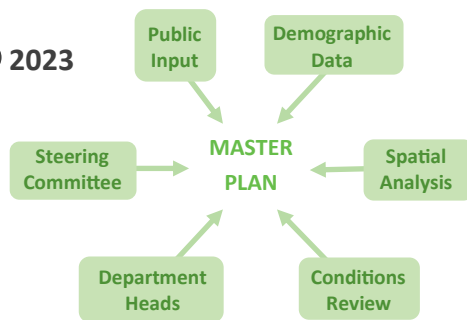
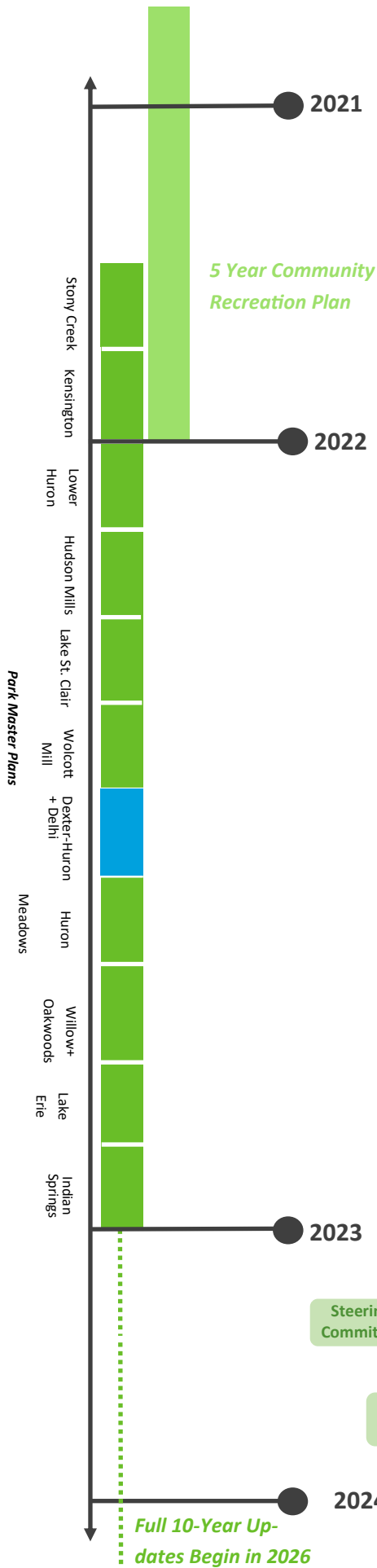
Introduction

Planning Process

The five-year update is an opportunity for each of the 13 Metroparks to review their master plan and make sure it is still relevant. This review includes 1) major changes to facilities, infrastructure and programming in the park; 2) updated needs and opportunities; 3) completed action items; and 4) any new actions necessary to implement the goals and policies for the park. One of the most important components is the public input collected through meetings, questionnaires, and online comments, all of which influence plan recommendations. A master plan steering committee was formed to include park employees with exceptional knowledge of Dexter-Huron/ Delhi and surrounding community who, along with the experienced Metroparks administrative department heads provided their professional opinions.

The Planning and Development Department also included updates to the demographic and spatial data to inform recommendations. Demographic data looks at the density, age, income, language, and other factors of the regional population. Spatial data, usually analyzed through Geographic Information System (GIS) software, looks at the physical location of the parks in relation to other recreation opportunities, transportation facilities, population centers, important natural resources, and more. Finally, the planning staff conducted a review of park conditions to identify areas needing improvement and areas experiencing success.

The master plans are intended to be living documents, modified as needed to reflect changing conditions in the parks with this review every five years. However, they focus on park developments over ten years, and will be updated through a more comprehensive planning process at the end of the planning horizon.



The Steering Committee met on 07/27/2022

REVENUE

Revenue Sources

2021 Operations Revenue

Revenue Source	2021 Total \$	% of Revenue
Tolling	675,070.95	40.8%
Golf	794,349.84	48.0%
Disc Golf	34,778.26	2.1%
Boat Rental	67,578.48	4.1%
Special Events	4,339.73	0.3%
Shelter Reservations	28,134.82	1.7%
Group Camp	3,866.17	0.2%
Cross Country Ski	90.00	0.0%
Interpretive	9,300.00	0.6%
Intergovernmental	3,121.07	0.2%
Miscellaneous	35,075.67	2.1%
	\$1,655,704.00	100%

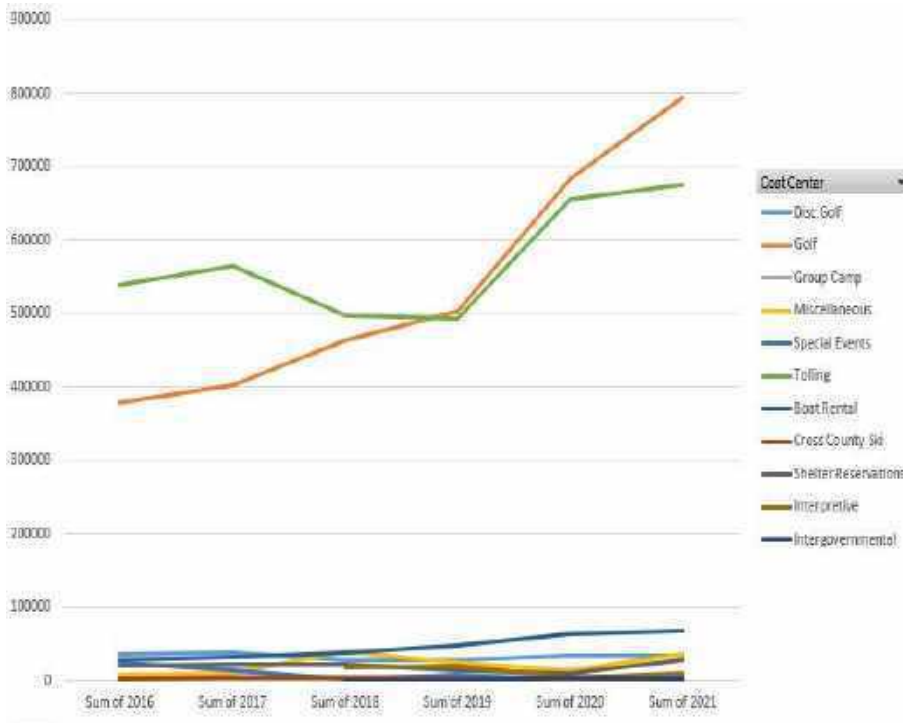
NEEDS

Diversify sources of revenue

Offer new and exciting activities/ programs to visitors to both boost tolling and gather user fees

OPPORTUNITIES

REVENUE TRENDS 2016-2021—Hudson Mills, Dexter-Huron, Delhi



The Metroparks 2021 General Fund revenue equaled \$59,729,968. The 2021 operations revenue for Hudson Mills was approximately \$1,655,704, comprising 2.7% of all Metroparks revenue.

As the chart illustrates, nearly all Hudson Mills revenue comes from park entrance tolling and golf.

Hudson Mills, Dexter-Huron, and Delhi are considered together in the budgeting process, and the budgeted 2022 operations revenues for the three parks are \$1,478,429, while estimated 2022 operations expenses are \$2,984,416. Property tax and other revenue will subsidize 50.5% (\$1,505,987) of the parks' operating budget.

*2021 Operations Revenue was irregular due to the COVID pandemic.

Visitors

Dexter-Huron and Delhi Metropark are regional parks and can draw from the approximately 1,900,000 Michigan residents that live within a 30 mile radius (approximately a 45-minute drive) of them. Certain events and activities may draw visitors from greater distances.

Vehicle entries are combined for Hudson Mills, Dexter-Huron and Delhi Metroparks, and have hovered between 200,000 and 300,000 since 2016. Record entries of 299,492 were recorded in 2020, fluctuating through the years but overall moderately growing. Planning staff facilitated a data collection initiative in July and August 2018 to record visitors entering the park using a motor vehicle. Over three days, each visitor was asked to provide the number of persons per vehicle (PPV), whether the car used an annual pass and whether the visitor/s had a dog with them.

Consolidation of statistical information is needed to better assess vehicle entries, park users, event attendance, event participants and activity participation within the park. This information will help with marketing of events, activities and future analysis of the park.



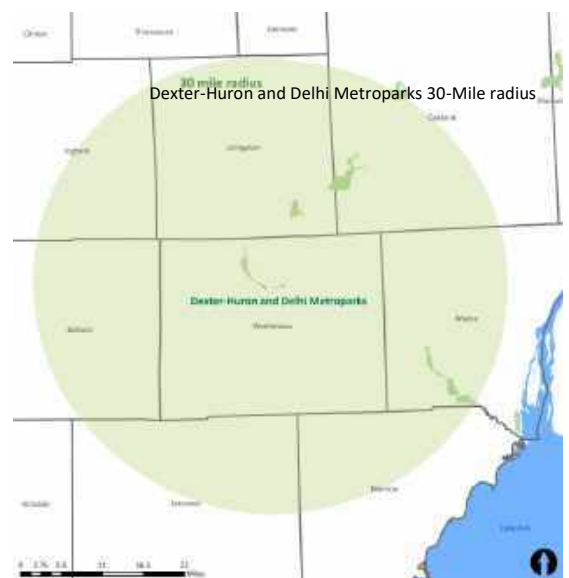
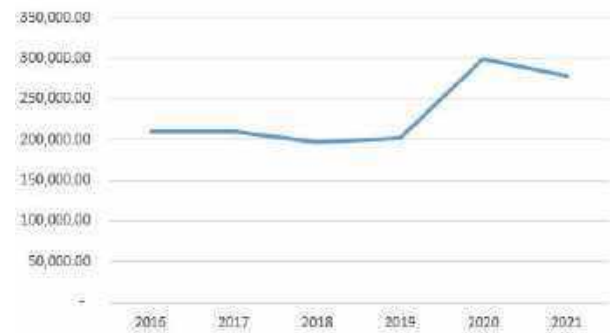
NEEDS

Target market strategy

Take advantage of proximity to urban population to grow revenue and system awareness

OPPORTUNITIES

VEHICLE ENTRIES 2016-2021



Programs & Events



Dexter-Huron and Delhi combined with Hudson Mills hosts dozens of events each year, organized either by park staff or outside groups. Many of these are interpretive programs for both children and adults to explore the natural and cultural assets of the park. Some promote artistic enrichment and others encourage physical activity or advocate for a cause. The significance of the Huron River with Michigan’s first residents-both Native and European is an important component in the parks for providing context to many of the interpretive programs for visitors.

NEEDS

Increase revenue and visitation

Build on enthusiasm of Kensington visitors with exciting, engaging programs and events

OPPORTUNITIES

2022 Integrated Marketing Plan

Educational and public programs looked much different than “average” in 2020. Staff adjusted to ever-changing situations of the pandemic to continue serving visitors on multiple platforms using virtual and hybrid programs, as well as small-group, in person, outdoor programs. These new practices will carry over into 2022 and staff will continue working collaboratively to provide exciting new experiences for the Hudson Mills communities in ways that are safe and engaging.

2020-2022 Recreation Programming Plan

In 2022, the Metroparks amended the 2020-2022 Community Recreation Plan to include a Recreation Programming Plan.

An important element of programming is accessibility and ensuring all programs, events, and services are compliant with the American Disability Act (ADA) requirements.

To achieve this, the Metroparks has begun self-evaluation of all programming and services offered by each department. Each program was categorized into groups of similar activities (e.g. programs, events, activities) and will then be analyzed each activity in terms of vision, hearing, and mobility barriers



COMMUNITY INFLUENCES

Population

The Metroparks were created at the time of the auto boom, when it was assumed that every family would have a car to take out to the countryside on the weekends. Since habits and lifestyles are changing, the Metroparks must look into innovative ways to provide access to the parks for all.

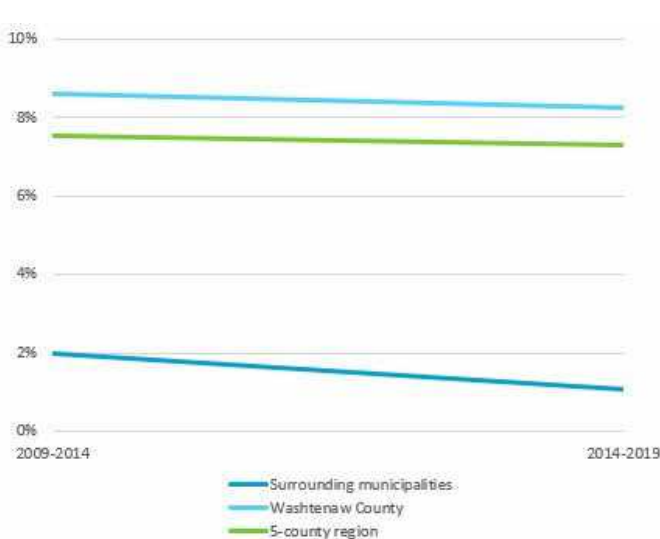
The percentage of individuals over 65 years of age is rising quickly in the region, in Washtenaw County, and most dramatically in communities surrounding the parks. Older adults have distinct needs, often requiring accommodations for mobility and accessibility of park features such as trails and buildings. This is important to keep in mind when planning the future of a park serving an older population.

NEEDS

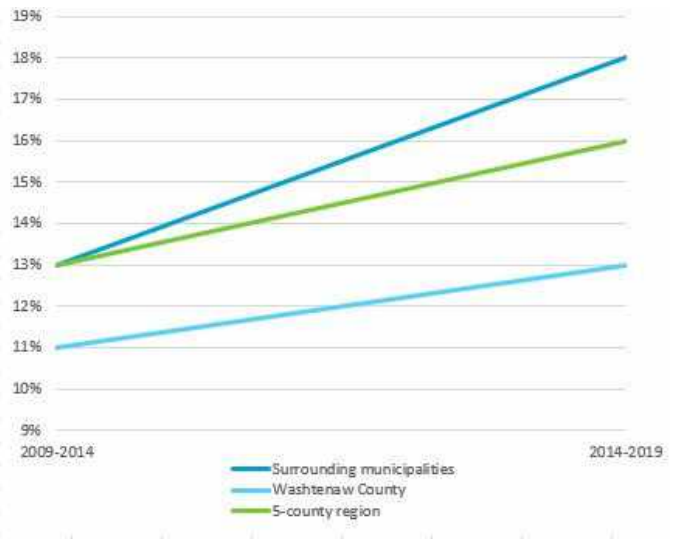
Address changing needs of new population demographics

Draw new users with a connected, accessible, welcoming and safe park environment

OPPORTUNITIES



CHANGE IN PERCENT OF HOUSEHOLDS WITH NO CARS AVAILABLE, 2009-14 through 2014-19 (Source: US Census American Community Survey)



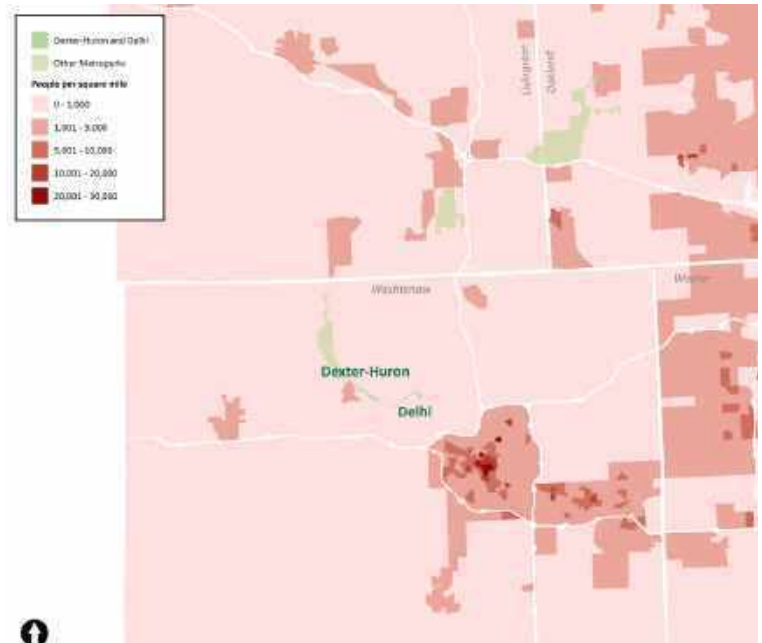
CHANGE IN PERCENT OF POPULATION OVER 65 YEARS, FROM 2009-14 through 2014-2019 (Source: US Census American Community Survey)

Community Influences

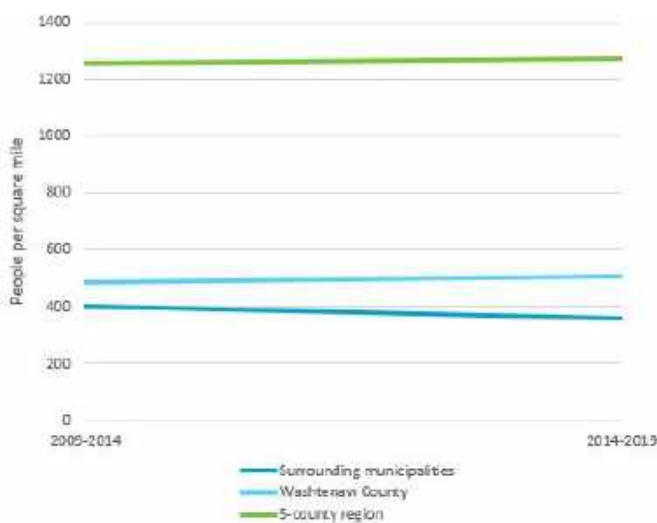
As shown below, Dexter-Huron and Delhi are located in a lower residential density area than many other Metroparks, with the majority of land use characterized as residential. The majority of the area directly bordering the park have an average population between 0 and 1,000 people per square mile. The City of Dexter attributes to the higher residential density area of 1,001-5,000 people per square mile adjacent to Dexter Huron. Associated with the noted demographic change will be the impact on housing trends. The aging baby boomers will seek different housing options than past generations of seniors. The desire will be for mixed use walkable environments with more compact smaller housing units, along with more time for passive recreational opportunities that will continue to increase in the surrounding communities.

The population density of the 5-county region and Washtenaw slightly increased overall. However, surrounding municipalities slightly decreased which will have a more direct impact on the two parks. Staying aware of development changes in the area will be important to gauge recreation needs.

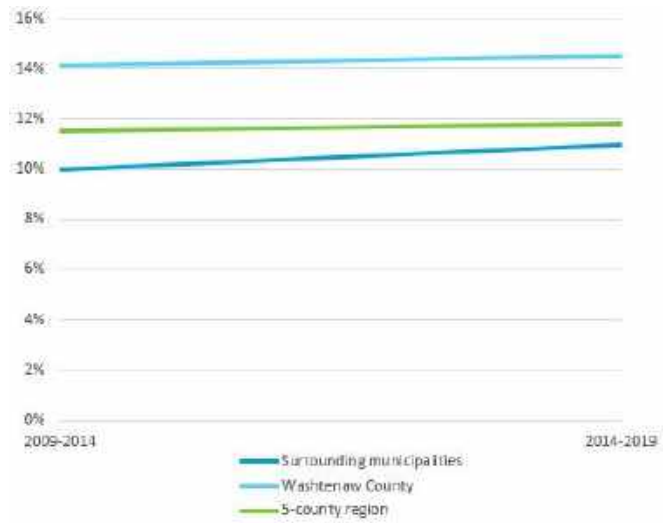
Although most households in the area still speak English as their first language, the communities around Dexter-Huron and Delhi had a dramatic rise in households speaking languages other than English at home, most notably the Asian population. Both Washtenaw County and the region at large are seeing a slight increase in households speaking languages other than English at home. Because of this growing linguistic diversity the Metroparks are working towards more universal signage design, with a focus on easily understandable symbols.



POPULATION DENSITY BY BLOCK GROUP 2014-19



CHANGE IN AVERAGE POPULATION DENSITY, 2009-14 through 2014-19
(Source: US Census American Community Survey)



CHANGE IN PERCENT OF HOUSEHOLDS SPEAKING LANGUAGE BESIDES ENGLISH AT HOME, 2009-14 through 2014-19 (Source: US Census American Community Survey)

PUBLIC INPUT

← Outreach Process

2022 Community Needs and Assessment

ETC Institute administered a needs assessment survey for Huron-Clinton Metroparks (HCMA) during the Spring of 2022. The survey was administered as part of Metroparks' efforts to establish and priorities improvements to the parks system, which included 13 parks covering more than 25,000 acres in Wayne, Oakland, Macomb, Livingston and Washtenaw counties. The survey and its results will guide HCMA in taking a resident-driven approach to making decisions that will enrich the future of the community and positively affect the lives of all residents in southeast Michigan.

ETC Institute mailed a survey packet to a random sample of households in Livingston County, Macomb County, Oakland County, Washtenaw County, Wayne County (outside the City of Detroit), and the City of Detroit.

Location	Completed Surveys	% Precision
<i>Livingston County</i>	479	±4.5%
<i>Macomb County</i>	511	±4.3%
<i>Oakland County</i>	583	±4.1%
<i>Washtenaw County</i>	514	±4.3%
<i>Wayne County (Outside Detroit)</i>	407	±4.9%
<i>City of Detroit</i>	405	±4.9%
Total	2,899	±1.8%

The table above shows the number of completed surveys collected in each of the six sampling areas. The table also shows the margin of error at the 95% level of confidence for each area.

The results presented in this report have been weighted to represent each sampling area's share of the population of the Huron-Clinton Metroparks service area. The weighted results give more weight to the responses from the larger sampling areas, including Macomb County, Oakland County, Wayne County (outside Detroit), and the City of Detroit, and similarly gives less weight to the responses of the smaller sampling areas, including Livingston County and Washtenaw County

Priorities for Parks & Recreation Facility Investments in the Huron-Clinton Metroparks Service Area

The Priority Investment Rating (PIR) was developed by ETC Institute to provide organizations with an objective tool for evaluating the priority that should be placed on Parks and Recreation investments. The Priority Investment Rating (PIR) equally weighs:

- the importance that households place on each facility/ amenity/ activity/program
- how many households have unmet needs for the facility/

Facility	Priority Investment Rating (PIR)
<i>Trails-paved, multi-use (walking, biking)</i>	189.2
<i>Beaches</i>	174.7
<i>Natural areas</i>	145.7
<i>Trails-unpaved, nature trails</i>	139.7
<i>Trails-unpaved, hiking</i>	137.2
<i>Nature centers</i>	114.2
<i>Canoe/kayak launch sites</i>	110.2
<i>Outdoor swimming pools</i>	107.9

Results

Washtenaw County

The table below shows the Priority Investment Ratings (PIR) for parks and recreation facilities, based on the PIR analysis conducted using the data from Washtenaw County households. The following 6 facilities were rated as high priorities for investment:

- Paved multi-use trails for walking and biking
- Unpaved trails, nature trails
- Unpaved trails for hiking
- Beaches
- Natural areas
- Canoe/kayak launch sites

Facility	PIR	Priority
Trails-paved, multi-use (walking, biking)	175.5	High Priority (PIR=100-200)
Trails-unpaved, nature trails	159.1	
Trails-unpaved, hiking	155.7	
Beaches	147.4	
Natural areas	137.7	
Canoe/kayak launch sites	105.8	
Outdoor swimming pools	97.5	Medium Priority (PIR=50-99)
Nature centers	92.4	
Canoe/kayak rentals	76.2	
Fishing banks or docks	69.3	
Camping areas-primitive sites	62.0	
Picnic tables	59.3	
Trails-mountain biking	55.8	Low Priority (PIR=0-49)
Picnic shelters	53.1	
Playgrounds	46.6	
Splash pad (water play area)	42.1	
Waterslides	41.8	
Golf driving ranges	41.2	
Camping areas-RVs	41.2	
Boat ramps	37.8	
Camping areas-group sites	37.8	
Golf courses	34.9	
Disc golf	22.0	
Boat docks	21.0	
Marinas	10.0	

The table below shows the Priority Investment Ratings (PIR) for parks and recreation programs, based on the PIR analysis conducted using the data from Washtenaw County households. The following 14 programs were rated as high priorities for investment:

- Concerts
- Art/photography
- Movies in the park
- Swim lessons
- Walking clubs/programs
- Water fitness programs
- Pet-friendly programs
- Environmental education programs
- Camping
- Astronomy programs
- Bird-wildlife watching programs
- Guided nature hikes
- Fishing programs
- Natural/cultural history

Program	PIR	Priority
Concerts	194.4	High Priority (PIR=100-200)
Art/photography	175.1	
Movies in the park	173.9	
Swim lessons	166.8	
Walking clubs/programs	164.6	
Water fitness programs	162.6	
Pet-friendly programs	150.9	
Environmental education programs	132.9	
Camping	129.0	
Programs for people with disabilities	126.7	
Astronomy programs	126.2	
Bird/wildlife watching programs	125.0	
Guided nature hikes	121.7	
Fishing programs	114.2	
Natural/cultural history programs	108.7	
Guided canoe/kayak tours	105.5	
Farm educational programs	98.0	
Golf lessons	83.6	
Boating classes	80.6	
Guided motorized boat tours	70.3	
Homeschool programs	59.1	
Running clubs/programs	50.0	
Virtual programs	35.3	
Scouting	31.8	
Golf tournaments	29.9	

Table 14: PIR Ratings for Parks & Recreation Programs in Wayne County, MI (outside of Detroit)

NEEDS

Improve connectivity within the park and with the community

Create good working relationship with surrounding municipalities

OPPORTUNITIES

Understanding the goals and plans of municipalities and other organizations bordering and/or containing Dexter-Huron and Delhi is essential for a collaborative, comprehensive planning process. Planning staff researched previous park plans along with the published master plans and recreation plans of surrounding municipalities, counties, other agencies. These provided a basic idea of the direction planned for each, especially regarding land use, development, and recreation.

Border-to-Border Trail (B2B)

- The Dexter-Huron Metropark to Zeeb Road project is 1.2 miles long and includes two pedestrian bridges over the Huron River.

Washtenaw County Parks and Recreation Commission (WCPARC) Master Plan: Dexter to Ann Arbor

- In 2019, WCPARC completed a Master Plan for the B2B between Dexter and Ann Arbor. The plan serves as a guiding document for detailed design and engineering and will involve a great deal of coordination with many agencies, municipalities and organizations.

Master Land Use Plan Scio Township, Michigan

- Dexter-Huron is located in the Mill Creek Sub Area of the future land use plan. Development strategies include encouraging non-motorized routes to provide interconnected system of trails and support implementation of the B2B Trail. Also, this area is being promoted to establish recreational needs of the residents including passive uses, soccer fields and ball fields. Delhi is located in the Huron River Sub Area. Development strategies in this area include coordinating with HCMA for parkland and open space

Projects/Initiatives

acquisition and development, along with preservation and enhancement of the historic character of Delhi Mills and the Delhi Bridge.

City of Dexter Master Plan, Amended 2016

- A number of existing and anticipated circumstances will affect Dexter's future. These include a growing population, decentralized places of employment with increased commuting distances and conversely, an increase in those working from home. These factors together with the attraction of the Ann Arbor area as a place to live and work will provide development opportunities within Dexter and the surrounding communities for years to come.

Economic Impact of the Huron River Report

- In 2016, Huron River Watershed Council commissioned a study to measure the economic impact of the Huron River on local communities, focusing on Huron River Water Trail activities and the value of natural systems that maintain a healthy, clean river. The study results show a \$53.5 million dollar benefit to the local economy from direct and indirect spending each year.



MUNICIPALITY MAP

Supporting Plans

Community Recreation Plan

The Dexter-Huron/Delhi Plan is aligned with the Metroparks Community Recreation Plan 2018-2022 that creates an inventory of existing facilities and resources, identifies community and recreation and open space needs and sets a plan of action for a 5-year period. To be eligible to apply for Land and Water Conservation Fund, Michigan Natural Resources Trust Fund, and Waterways grants, a community must have an approved 5-Year Plan on file with the Michigan Department of Natural Resources (DNR) by February 1 of the year they intend to apply.

Marketing Plan

Realizing the importance of marketing and communication, the Dexter-Huron/ Delhi Master Plan will coincide with updates to the Marketing Plan 2022 Goals and Strategies, developed annually by the Marketing and Communications Department. Both are living documents that will closely follow both present and future marketing trends and work in collaboration amongst various departments.

ADA Transition Plan

The Metroparks Board of Commissioners approved an updated Americans with Disabilities Act (ADA) Transition Plan in November 2019. Moving forward, top priority projects will be added into annual capital and major maintenance improvement projects and identified in the Five-Year Community Recreation Plan and 10-year master plan (five-year amended) developments.

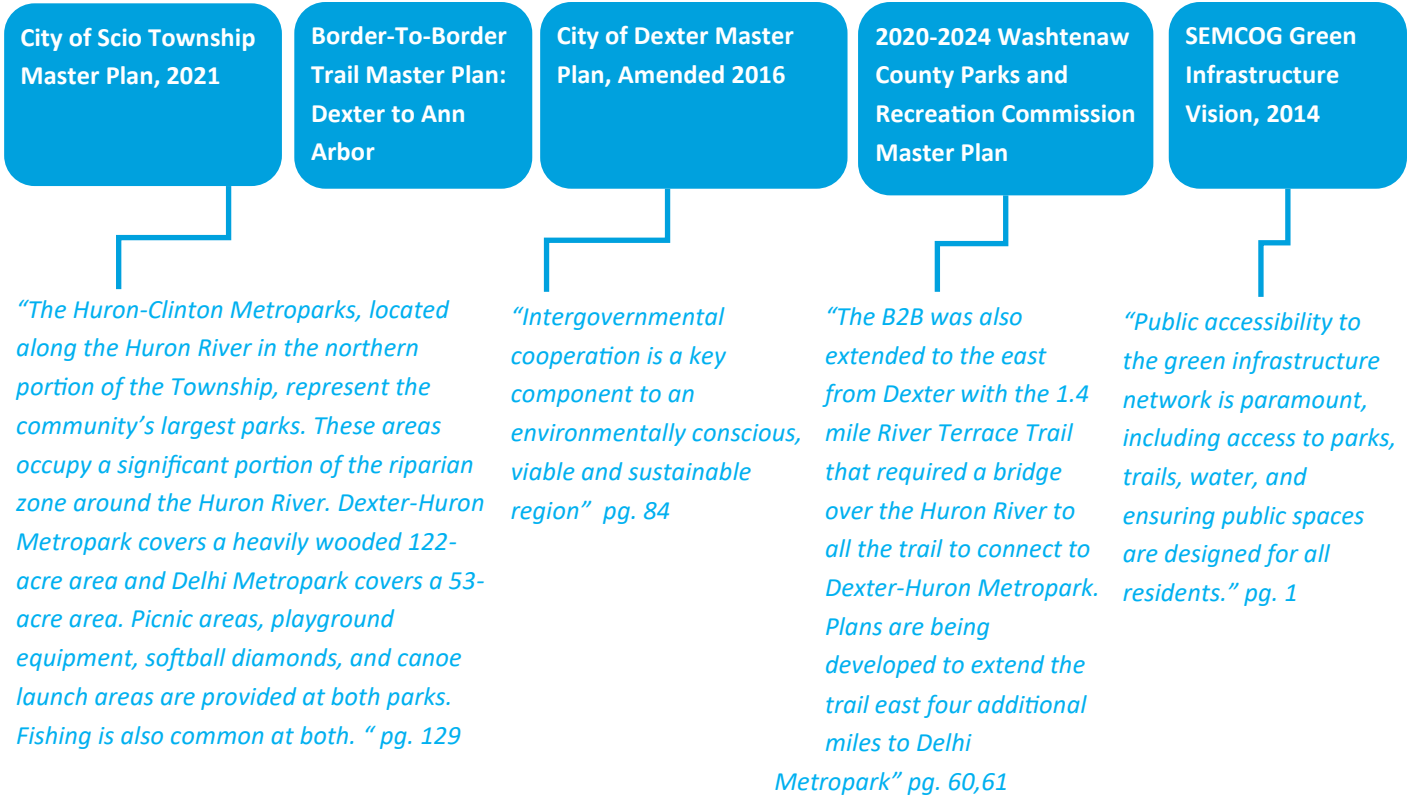
Stormwater Management Plan

The Stormwater Management Plan (SWMP), approved by the Board of Commissioners in 2019, provides a comprehensive review and analysis of the existing stormwater conveyance system for improvement and maintenance projects that prioritize reduction of impacts on water quality. It includes concepts and preliminary details for the design, construction, and operation and maintenance of the stormwater system for each Metropark (separated into individual chapters). Vetted by a committee of administrative departments and Dexter-Huron/Delhi operations and maintenance staff, recommendations include green infrastructure development, shoreline and streambank restoration, and culvert and outfall cleanouts and replacements. Cost estimates were developed for each project, and calculation tables were included to help with budgeting (adjusting for inflation) in the future.



Community Influences

Relevant Planning Documents



Since the development and land use decisions of bordering communities and other governmental agencies directly impact the park, these neighbor master plans were reviewed and taken into account when creating this document. The opinions and ideas expressed by residents and leaders in these municipalities give Dexter-Huron and Delhi a wider context and in many cases underscore the importance of the park’s resources to citizens.

Dexter-Huron and Delhi Metroparks are part of a broader system of recreation and green space that includes other Metroparks as well as local, county and state parks and greenways. Due to this, recreation and green infrastructure plans were also considered in creating the Dexter-Huron and Delhi Master Plan. Many communities are currently advancing their non-motorized networks, seeking grant funding to create greenways and paths and cooperating to provide linked green and recreation spaces to their constituents.



Action Plan

Needs & Opportunities

Based on the assessment of park conditions, demographic research and spatial analysis, public input, and staff input, the needs and opportunities listed throughout this document were developed. [5-year updates are in blue text](#)

Needs

- Continue to draw diverse range of visitors to the parks
- Define and protect areas with important biodiversity features
- Better educate the importance of preserving important cultural features
- Address aging and overbuilt infrastructure
- Identify areas of facility duplication for repurposing and consolidation
- Work with county and local communities to address any boundary issues for both parks
- Replace outdated, confusing, inconsistent signs
- Pursue improvements to park accessibility
- Diversify sources of revenue
- Target market strategies for facilities (Skips)
- Increase revenue and visitation
- Address changing needs of new population demographics
- Improve connectivity within the parks and with the community
- Incorporate variety of opinions and user groups into master plan
- Maintenance of facilities for successful operations

Opportunities

- Build on both parks character to attract new visitors
- Create a resilient network of biodiverse areas in the parks
- Draw new visitors with programming/education based on history of the parks
- Redevelop park areas to better serve visitors and environment
- Provide unique recreational facilities to draw visitors from across the region
- Create good working relationship with neighbors and partner organizations
- Create consistent, convenient wayfinding system to give visitors confidence
- Ensure that users of all abilities feel empowered to take full advantage of the parks
- Offer new and exciting activities/programs to visitors of the parks to both boost tolling and gather user fees
- Take advantage of proximity to urban population to grow revenue and system awareness
- Build on enthusiasm of Dexter-Huron/Delhi's visitors with exciting, engaging programs and events
- Draw new users with a connected, accessible, welcoming and safe park environment
- Create good working relationship with surrounding municipalities
- Maintenance plans and scheduling for facilities (hike-bike trails)
- Create vibrant park through robust, transparent public outreach



With these in mind, the following list of projects, plans, and studies was developed. Major and minor projects have been identified as priorities and assigned a timeline and the accompanying studies have been listed. These pages should serve as a blueprint for the future of the parks over the next ten years.

Large Facilities

Park*	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Del	Redevelop playground at Delhi	Planning	Eng, Ops, Maint	MDNR, Contractors,	TBD			x	Long-Term
Del	Implement improvements to canoe livery site and operations (resulting from assessment)	Eng	Plan, Ops, Maint	MDNR, Contractors	TBD	x			In Design
Both	Support extension of Border-To-Border (B2B) in both parks	Planning	Eng, Ops, Maint	WCPARC, Contractors	TBD	x	x	x	Ongoing
Dex	Construct congregated, multi-age playground at Dexter-Huron	Planning	Eng, Ops, Maint	MDNR, Contractors	TBD		x		Not started



*Abbreviation for both parks (Dex = Dexter-Huron, Del = Delhi) ** Abbreviation for departments (Eng = Engineering, Plan = Planning, Int = Interpretive Services, Ops = Operations, Maint = Maintenance, NR = Natural Resources, Mrkt = Marketing CR = Community Relations)

Infrastructure / Small Facilities

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Accessibility improvements, including interiors, walkways, and site amenities - parkwide	Eng	Plan, Ops	Contractors	TBD	x	x	x	Ongoing
Del	Develop Delhi connectivity plan	Eng	Plan, Ops, Maint	MDNR, Contractors	TBD			x	Not started
Del	Develop parking improvement plan (resulting from parking study)	Eng	Ops, Maint	MDNR, Contractors	TBD			x	Not started
Dex	Replace roof on West shelter at Dexter-Huron	Eng	Ops, Maint	MDNR, Contractors	\$4,000				Complete
Dex	Implement accessible shelter amenities conceptual plan	Planning	Ops, Maint	MDNR, Contractors	TBD	x	x	x	Ongoing
Del	Improve Canoe/Kayak river access at East Delhi	Planning	Engineering, Ops, Maint		TBD			x	Not started



Natural Resources

Park	Description	Department Lead	Other Department	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Vegetation Management (annual)	NR	Plan, Ops	MDNR, Contractors	\$30,000	x	x	x	Ongoing
Both	Early detection, rapid response. Invasive species surveys and control in high quality natural areas (annual)	NR	Int	NGOs	\$10,000	x	x	x	Ongoing
Both	Wildlife management (annual)	NR	Ops, Maint, Police	MDNR	Staff time	x	x	x	Ongoing
Both	Conduct Prescribed fire in adapted native communities	NR			\$4,000	x	x	x	Ongoing
Both	Oak wilt control and prevention (annual)	NR	Ops, Int	MDNR	\$4,500	x	x	x	Ongoing
Both	Shoreline restoration and protection	NR	Ops, Plan	Contractor, NGOs	\$150,000	x	x	x	Ongoing
Both	Implement in-river restoration initiative (following feasibility study)	NR	Plan, Eng	MDNR, NGOs	\$150,000	x	x	x	Ongoing
Both	Huron River viewshed improvement initiative: open up and maintain views to the river from key locations in West Delhi and Dexter-Huron	Plan	NR, Maint		staff time	x	x	x	Ongoing

Area Plans/Studies/Initiatives

After identifying the need for changes or improvements based on user feedback and staff research, in-depth evaluation and planning must be carried out to gain a detailed understanding of problems and opportunities and determine the best strategies based on existing conditions and resources. Sometimes a process to formally monitor facility usage and gauge popularity is necessary. These studies often result in a scope of work, a work plan, and in some cases a site plan that give staff a roadmap for planned changes. Recommended studies are listed below:

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	In-river and riparian restoration feasibility study: Assess feasibility of conducting in-river or riparian restoration to address identified threats to the Huron River ie. sedimentation, erosion, peak flow, nutrient contamination, etc.	NR	Plan, Eng, Ops	MDNR, HRWC, NGOs	staff time		x		?
Del	Delhi connectivity plan: Identify opportunities for linking Delhi parcels via trails to improve paddler access to parking	Plan	Eng, Ops, Maint, NR	MDNR	staff time				Complete
Both	Parking study: consider reconfiguration of West Delhi parking lot	Plan	Eng, Ops, Maint, NR	MDNR	staff time			x	Not started
Both	Parking study: evaluation of parking use patterns for canoe livery and East Delhi, potential increased demand at Dexter-Huron with new trail section	Plan	Eng, Ops, Maint, NR	MDNR	staff time				Complete
Del	Canoe livery operations assessment: investigate opportunities to improve operations of Skip's Canoe Livery for maximum benefit to the Metroparks while avoiding conflict with other park uses	Plan, Ops	Eng, Maint	MDNR, Skip's	staff time	x			In Design

Signage

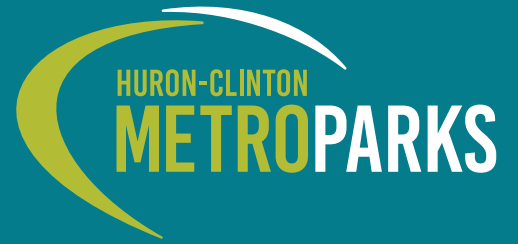
Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Del	East Delhi Trailhead	Planning	Main, Ops		TBD		x		Not started
Both	New Branding System-Wide	Marketing	Main, Ops, Int		TBD	x	x	x	Ongoing



Area Plans/Studies/Initiatives (cont'd)

Park	Description	Department Lead	Other Department	Other Partners	Cost Estimate	Short-Term (2018-2022)	Mid-Term (2023-2027)	Long-Term (10+ years)	Status
Dex	Historic study/survey: West shelter at Dexter-Huron	Int	Plan, Eng, Ops	Consultant	TBD				Complete
Both	Environmental sustainability initiatives	NR, Purchasing	Ops, Plan, Eng		TBD	x	x	x	Ongoing
Both	Establish Invasive Species Control Tracking Website	NR	IT	MNFI, MISIN	staff time	x	x	x	Ongoing
Both	Stormwater monitoring	NR		NGOs	\$5,000	x	x	x	Ongoing
Both	Herpetological surveys	NR		NGOs	\$15,000	x	x	x	Ongoing
Both	Electric Vehicle (EV) Stations	Planning	Engineering, Operations		staff time		x		Not Started

HURON MEADOWS METROPARK MASTER PLAN



5 Year Update to 2018 - 2028

DRAFT



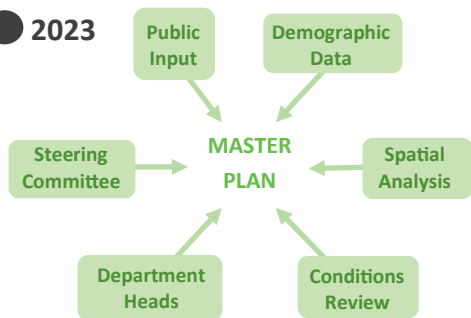
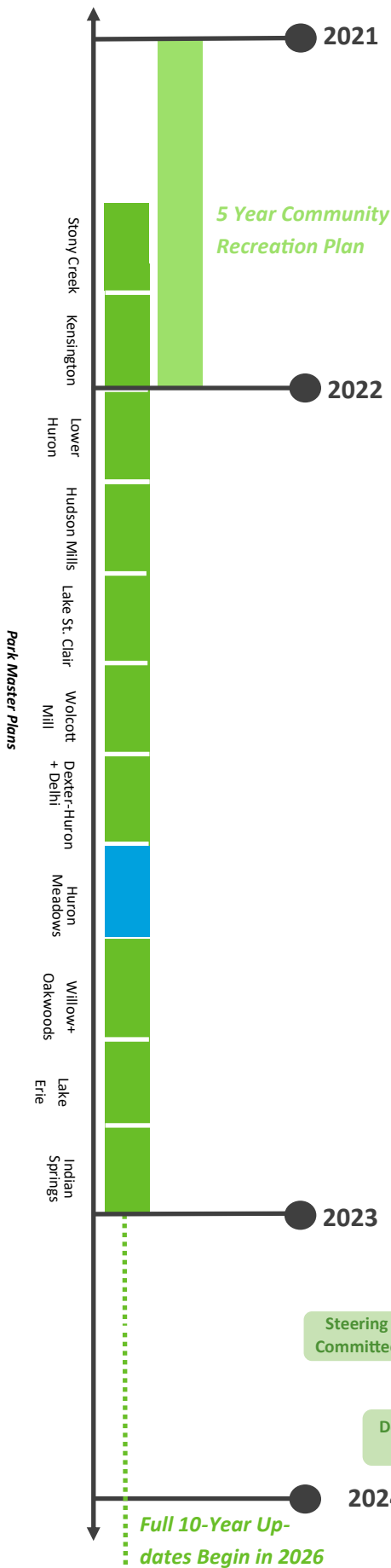
Introduction

Planning Process

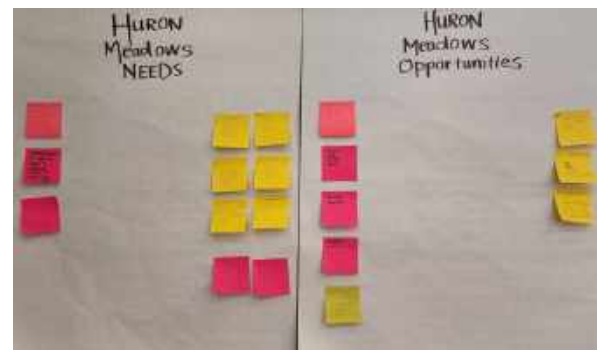
The five-year update is an opportunity for each of the 13 Metroparks to review their master plan and make sure it is still relevant. This review includes 1) major changes to facilities, infrastructure and programming in the park; 2) updated needs and opportunities; 3) completed action items; and 4) any new actions necessary to implement the goals and policies for the park. One of the most important components is the public input collected through meetings, questionnaires, and online comments, all of which influence plan recommendations. A master plan steering committee was formed to include park employees with exceptional knowledge of Huron Meadows and surrounding community who, along with the experienced Metroparks administrative department heads provided their professional opinions.

The Planning and Development Department also included updates to the demographic and spatial data to inform recommendations. Demographic data looks at the density, age, income, language, and other factors of the regional population. Spatial data, usually analyzed through Geographic Information System (GIS) software, looks at the physical location of the parks in relation to other recreation opportunities, transportation facilities, population centers, important natural resources, and more. Finally, the planning staff conducted a review of park conditions to identify areas needing improvement and areas experiencing success.

The master plans are intended to be living documents, modified as needed to reflect changing conditions in the parks with this review every five years. However, they focus on park developments over ten years, and will be updated through a more comprehensive planning process at the end of the planning horizon.



The Steering Committee met on 07/27/2022



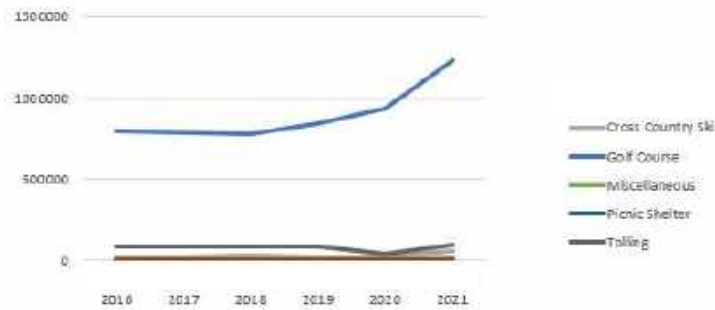
REVENUE

Revenue Sources

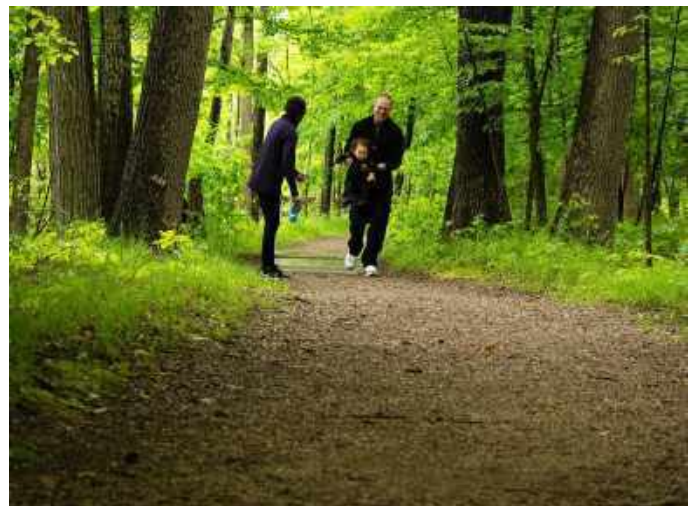
2021 Operations Revenue

Revenue Source	2021 Total
Golf Course	1,231,819.54
Tolling	92,970.92
Cross Country Ski	55,148.82
Picnic Shelter	8,963.79
Miscellaneous	106.56
Total	1,389,009.63

REVENUE TRENDS 2016-2021— Huron Meadows



*2020 –2021 Operations Revenue was irregular due to the COVID pandemic.



NEEDS

Diversify sources of revenue

Offer new and exciting activities/ programs to visitors to both boost tolling and gather user fees

OPPORTUNITIES

The Metroparks 2021 General Fund revenue equaled \$59,729,968. Huron Meadows 2021 operations revenue was approximately \$1,389,010 comprising 2.3% of all Metroparks revenue.

Huron Meadows budgeted 2022 operations revenues are \$1,315,800, while estimated 2021 operations expenses are \$1,235,919.

As the chart illustrates, the majority of revenue (approximately 87%) comes from the golf course.

Revenue

Visitors

Huron Meadows Metropark is a regional park and can draw from the approximately 2,500,000 Michigan residents that live within a 30 mile radius (approximately a 45-minute drive) of the park. Certain events and activities may draw visitors from greater distances.

Vehicle entries to Huron Meadows Metropark have hovered between 75,000 and 100,000 since 2014, fluctuating through the years but experiencing a slight rise overall. Weather often plays a role in attendance to the park; activity areas greatly affected by weather are the trails and golf course.

Consolidation of statistical information is needed to better assess vehicle entries, park users, event attendance, event participants and activity participation within the park. This information will help with marketing of events, activities and future analysis of the park.

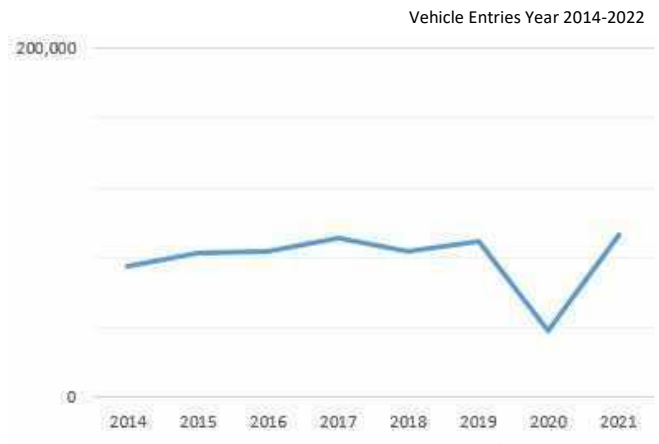


NEEDS

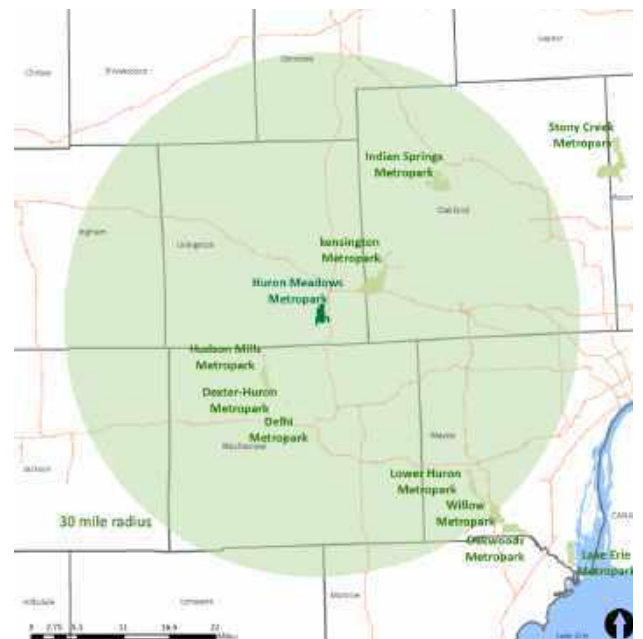
Target market strategy

Take advantage of proximity to urban population to grow revenue and system awareness

OPPORTUNITIES



Huron Meadows Metropark 30-Mile radius



Programs & Events

NEEDS

Increase revenue and visitation

Build on enthusiasm of Huron Meadows visitors with exciting, engaging programs and events

OPPORTUNITIES



Cross-Country Ski Events



Golf Course



Day camps

2022 Integrated Marketing Plan

Educational and public programs looked much different than “average” in 2020. Staff adjusted to ever-changing situations of the pandemic to continue serving visitors on multiple platforms using virtual and hybrid programs, as well as small-group, in person, outdoor programs. These new practices will carry over into 2022 and staff will continue working collaboratively to provide exciting new experiences for the Lower Huron communities in ways that are safe and engaging.

2020-2022 Recreation Programming Plan

In 2022, the Metroparks amended the 2020-2022 Community Recreation Plan to include a Recreation Programming Plan.

An important element of programming is accessibility and ensuring all programs, events, and services are compliant with the American Disability Act (ADA) requirements.

To achieve this, the Metroparks has begun self-evaluation of all programming and services offered by each department. Each program was categorized into groups of similar activities (e.g. programs, events, activities) and will then be analyzed each activity in terms of vision, hearing, and mobility barriers that may exist.



COMMUNITY INFLUENCES

Population

The Metroparks were created at the time of the auto boom, when it was assumed that every family would have a car to take out to the countryside on the weekends. Since habits and lifestyles are changing, the Metroparks must look into innovative ways to provide access to the parks for all.

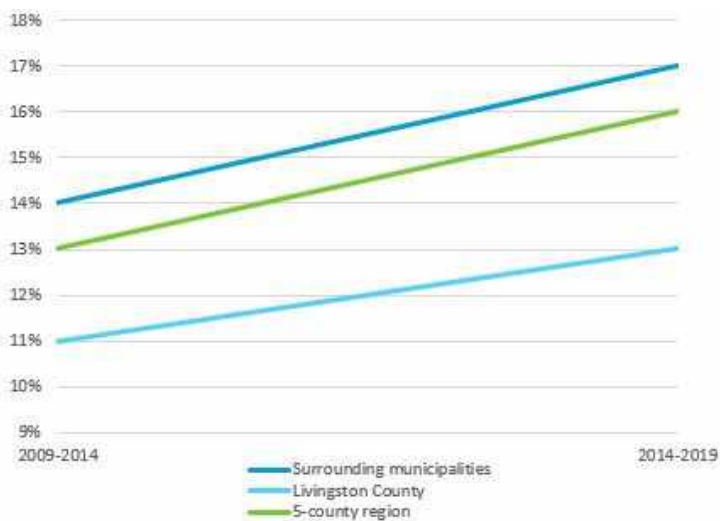
The percentage of individuals over 65 years of age is rising quickly in the region, in Livingston County and most dramatically in communities surrounding the park. Older adults have distinct needs, often requiring accommodations for mobility and accessibility of park features such as trails and buildings. This is important to keep in mind when planning the future of a park serving an older population.

NEEDS

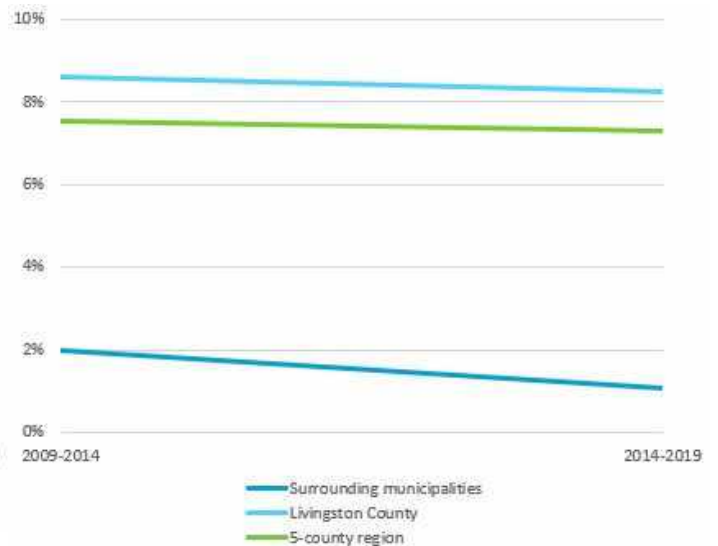
Address changing needs of new population demographics

Draw new users with a connected, accessible, welcoming and safe park environment

OPPORTUNITIES



CHANGE IN PERCENT OF POPULATION OVER 65 YEARS, FROM 2009-14 through 2014-19 (Source: US Census American Community Survey)



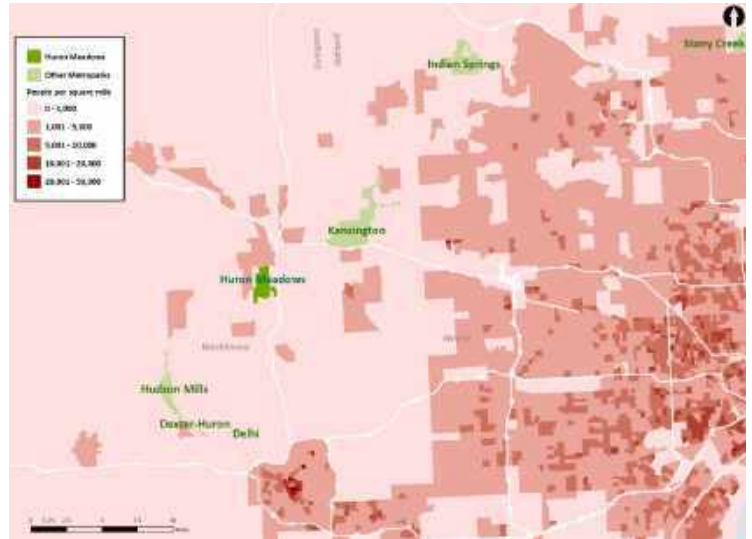
CHANGE IN PERCENT OF HOUSEHOLDS WITH NO CARS AVAILABLE, 2009-14 through 2014-19 (Source: US Census American Community Survey)

Community Influences

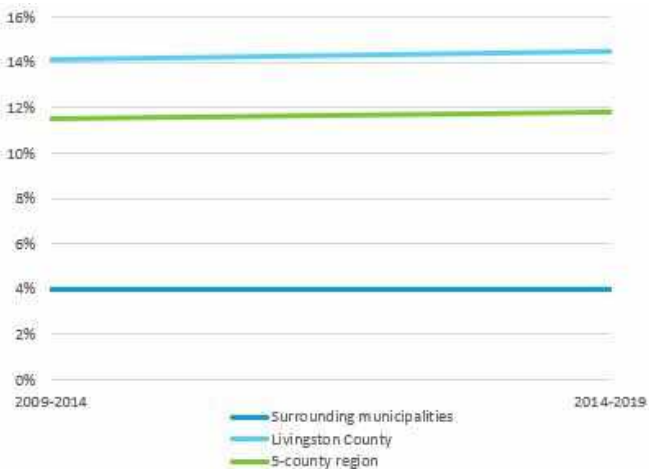
As shown below, Huron Meadows is located in a lower residential density area than many other Metroparks, with the majority of land use characterized as single family residential. The areas directly bordering the park have an average population between 0 and 5,000 people per square mile. Associated with the noted demographic change will be the impact on housing trends. The aging baby boomers will seek different housing options than past generations of seniors. The desire will be for mixed use walkable environments with more compact smaller housing units, along with more time for passive recreational opportunities that will continue to increase in the surrounding communities.

The average population density for Livingston County and the surrounding municipalities has risen slightly, creating increased demand for recreation in the area. The estimated population from 2009-2014 to 2014-2019 slightly increased for the surrounding communities of Hamburg Township and Green Oak Township.

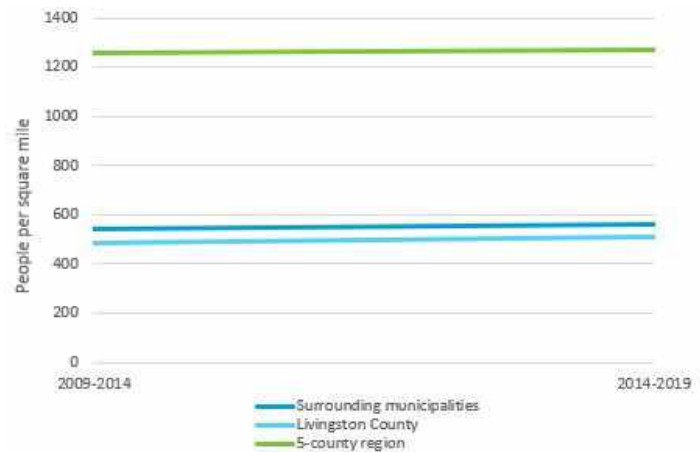
Although most households in the area still speak English as their first language, the region at large are seeing a slight increase in households speaking languages other than English at home. Because of this growing linguistic diversity the Metroparks are working towards more universal signage design, with a focus on easily understandable symbols.



POPULATION DENSITY BY BLOCK GROUP, 2019



CHANGE IN PERCENT OF HOUSEHOLDS SPEAKING LANGUAGE BESIDES ENGLISH AT HOME, 2009-14 through 2014-19 (Source: US Census American Community Survey)



CHANGE IN AVERAGE POPULATION DENSITY, 2009-14 through 2014-19 (Source: US Census American Community Survey)

PUBLIC INPUT

← Outreach Process

2022 Community Needs and Assessment

ETC Institute administered a needs assessment survey for Huron-Clinton Metroparks (HCMA) during the Spring of 2022. The survey was administered as part of Metroparks' efforts to establish and priorities improvements to the parks system, which included 13 parks covering more than 25,000 acres in Wayne, Oakland, Macomb, Livingston and Washtenaw counties. The survey and its results will guide HCMA in taking a resident-driven approach to making decisions that will enrich the future of the community and positively affect the lives of all residents in southeast Michigan.

ETC Institute mailed a survey packet to a random sample of households in Livingston County, Macomb County, Oakland County, Washtenaw County, Wayne County (outside the City of Detroit), and the City of Detroit.

Location	Completed Surveys	% Precision
<i>Livingston County</i>	479	±4.5%
<i>Macomb County</i>	511	±4.3%
<i>Oakland County</i>	583	±4.1%
<i>Washtenaw County</i>	514	±4.3%
<i>Wayne County (Outside Detroit)</i>	407	±4.9%
<i>City of Detroit</i>	405	±4.9%
Total	2,899	±1.8%

The table above shows the number of completed surveys collected in each of the six sampling areas. The table also shows the margin of error at the 95% level of confidence for each area.

The results presented in this report have been weighted to represent each sampling area's share of the population of the Huron-Clinton Metroparks service area. The weighted results give more weight to the responses from the larger sampling areas, including Macomb County, Oakland County, Wayne County (outside Detroit), and the City of Detroit, and similarly gives less weight to the responses of the smaller sampling areas, including Livingston County and Washtenaw County

Priorities for Parks & Recreation Facility Investments in the Huron-Clinton Metroparks Service Area

The Priority Investment Rating (PIR) was developed by ETC Institute to provide organizations with an objective tool for evaluating the priority that should be placed on Parks and Recreation investments. The Priority Investment Rating (PIR) equally weighs:

- the importance that households place on each facility/amenity/ activity/program
- how many households have unmet needs for the facility/

Facility	Priority Investment Rating (PIR)
<i>Trails-paved, multi-use (walking, biking)</i>	189.2
<i>Beaches</i>	174.7
<i>Natural areas</i>	145.7
<i>Trails-unpaved, nature trails</i>	139.7
<i>Trails-unpaved, hiking</i>	137.2
<i>Nature centers</i>	114.2
<i>Canoe/kayak launch sites</i>	110.2
<i>Outdoor swimming pools</i>	107.9

Results

Livingston County

The table below shows the Priority Investment Ratings (PIR) for parks and recreation facilities, based on the PIR analysis conducted using the data from Livingston County households. The following 7 facilities were rated as high priorities for investment:

- Paved multi-use trails for walking and biking
- Beaches
- Natural areas
- Canoe/kayak launch sites
- Unpaved trails for hiking
- Unpaved trails, nature trails
- Outdoor swimming pools

Facility	PIR	Priority
Trails-paved, multi-use (walking, biking)	190.2	High Priority (PIR=100-200)
Beaches	157.5	
Natural areas	150.2	
Canoe/kayak launch sites	146.1	
Trails-unpaved, hiking	132.3	
Trails-unpaved, nature trails	128.4	
Outdoor swimming pools	118.9	
Nature centers	99.7	Medium Priority (PIR=50-99)
Playgrounds	90.7	
Canoe/kayak rentals	86.0	
Fishing banks or docks	82.4	
Camping areas-RVs	81.3	
Trails-mountain biking	73.1	
Picnic shelters	71.2	
Picnic tables	69.2	
Waterslides	68.4	
Splash pad (water play area)	66.2	
Golf driving ranges	63.8	Low Priority (PIR=0-49)
Boat ramps	60.2	
Golf courses	57.5	
Camping areas-primitive sites	52.7	
Camping areas-group sites	47.2	
Boat docks	46.8	
Disc golf	36.8	
Marinas	23.3	

The table below shows the Priority Investment Ratings (PIR) for parks and recreation programs, based on the PIR analysis conducted using the data from Livingston County households. The following 8 programs were rated as high priorities for investment:

- Concerts
- Bird/wildlife watching programs
- Pet-friendly programs
- Camping
- Movies in the park
- Walking clubs/programs
- Astronomy programs
- Environmental education programs

Program	PIR	Priority
Concerts	200.0	High Priority (PIR=100-200)
Bird/wildlife watching programs	148.1	
Pet-friendly programs	128.4	
Camping	124.6	
Movies in the park	124.2	
Walking clubs/programs	117.3	
Astronomy programs	114.6	
Environmental education programs	104.6	
Guided nature hikes	94.2	Medium Priority (PIR=50-99)
Art/photography	91.5	
Guided canoe/kayak tours	81.8	
Natural/cultural history programs	74.1	
Fishing programs	73.6	
Farm educational programs	73.2	
Golf lessons	70.5	
Water fitness programs	61.6	
Swim lessons	53.8	
Programs for people with disabilities	43.8	
Boating classes	41.0	
Running clubs/programs	39.6	
Golf tournaments	34.1	
Guided motorized boat tours	30.6	
Scouting	22.8	
Homeschool programs	22.1	
Virtual programs	13.5	

NEEDS

Improve connectivity within the park and with the community

Create good working relationship with surrounding municipalities

OPPORTUNITIES

Understanding the goals and plans of municipalities bordering and/or containing Huron Meadows is essential for a collaborative, comprehensive planning process. Planning staff researched the published master plans and recreation plans of surrounding municipalities, counties and other agencies. These provided a basic idea of the direction planned for each, especially regarding land use, development and recreation and current projects.

Green Oak Township

Green Oak Charter Township is a residential community defined by its rural characteristics. The Township's residents and governing body are committed to the following principles that aim to respect its character:

- Preservation of open space and rural characteristics
- Protection of the Township's natural resources
- Managing growth
- Providing recreational areas, quality services, and appropriate infrastructure that meet social needs

Hamburg Township

- Hamburg Township updated its Master Plan in 2020. The planning process has begun with public outreach events for public involvement in helping shape the future of Hamburg Township.

City of Brighton Comprehensive Plan 2019

- Encourage recreation-focused businesses to locate and expand in the city, which is in close proximity to a wide variety of parks and recreation facilities

Projects/Initiatives

Huron River Watershed Council

- Improve climate resiliency of communities on the watershed
- Green infrastructure for local governments program
- Collaboration in stormwater management efforts
- RiverUp! program supporting placemaking in river towns
- Huron River Water Trail partner facilitation

2018 Livingston County Master Plan

- Facilitate conservation/park/trail coordination between area nature conservancies, camp organizations, and local/regional/state public park providers
- Collaborate with public and private partners to build green infrastructure and low impact development projects that will showcase the benefits of these techniques to the public as an educational tool
- The Legacy sports development has become a regional economic development attraction and Green Oak Township has zoned this area to accommodate a variety of additional housing, commercial, and service industry land uses.

Southeastern Livingston County Recreation Authority

- Work with regional recreation providers to expand opportunities and improve connectivity.



MUNICIPALITY MAP

Supporting Plans

Community Recreation Plan

The Huron Meadows Master Plan is aligned with the Metroparks Community Recreation Plan 2018-2022 that creates an inventory of existing facilities and resources, identifies community and recreation and open space needs and sets a plan of action for a 5-year period. To be eligible to apply for Land and Water Conservation Fund, Michigan Natural Resources Trust Fund, and Waterways grants, a community must have an approved 5-Year Plan on file with the Michigan Department of Natural Resources (DNR) by February 1 of the year they intend to apply.

Marketing Plan

Realizing the importance of marketing and communication, the Huron Meadows Master Plan will coincide with updates to the Marketing Plan 2022 Goals and Strategies, developed annually by the Marketing and Communications Department. Both are living documents that will closely follow both present and future marketing trends and work in collaboration amongst various departments.

ADA Transition Plan

The Metroparks Board of Commissioners approved an updated Americans with Disabilities Act (ADA) Transition Plan in November 2019. Moving forward, top priority projects will be added into annual capital and major maintenance improvement projects and identified in the Five-Year Community Recreation Plan and 10-year master plan (five-year amended) developments.

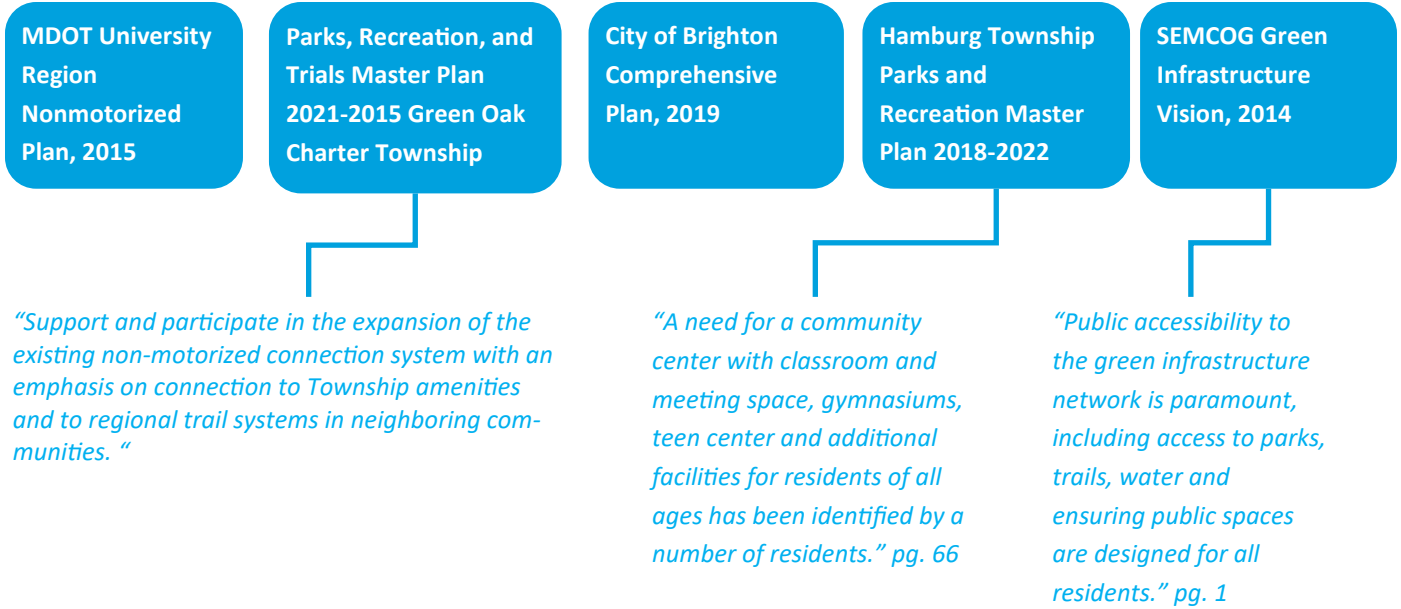
Stormwater Management Plan

The Stormwater Management Plan (SWMP), approved by the Board of Commissioners in 2019, provides a comprehensive review and analysis of the existing stormwater conveyance system for improvement and maintenance projects that prioritize reduction of impacts on water quality. It includes concepts and preliminary details for the design, construction, and operation and maintenance of the stormwater system for each Metropark (separated into individual chapters). Vetted by a committee of administrative departments and Huron Meadows operations and maintenance staff, recommendations include green infrastructure development, shoreline and streambank restoration, and culvert and outfall cleanouts and replacements. Cost estimates were developed for each project, and calculation tables were included to help with budgeting (adjusting for inflation) in the future.



Community Influences

Relevant Planning Documents



Since the development and land use decisions of bordering communities and other governmental agencies directly impact the park, these neighbor master plans were reviewed and taken into account when creating this document. The opinions and ideas expressed by residents and leaders in these municipalities give Huron Meadows a wider context and in many cases underscore the importance of the park’s resources to citizens.

Huron Meadows Metropark is part of a broader system of recreation and green space that includes other Metroparks as well as local, county and state parks and greenways. Due to this, recreation and green infrastructure plans were also considered in creating the Huron Meadows Master Plan. Many communities are currently advancing their non-motorized networks, seeking grant funding to create greenways and paths and cooperating to provide linked green and recreation spaces to their constituents.



Action Plan

Needs & Opportunities

Based on the assessment of park conditions, demographic research and spatial analysis, public input, and staff input, the needs and opportunities listed throughout this document were developed. [5-year updates are in blue text](#)

Needs

- Continue to draw diverse range of visitors to the park
- Define and protect areas with important biodiversity features
- Better educate the importance of preserving important cultural features
- Address aging and overbuilt infrastructure
- Identify areas of facility duplication for repurposing and consolidation
- Work with county and local communities to address any park boundary issues
- Replace outdated, confusing, inconsistent signs
- Pursue improvements to park accessibility
- Diversify sources of revenue
- Target market strategies
- Increase revenue and visitation
- Address changing needs of new population demographics
- Improve connectivity within the park and with the community
- Incorporate variety of opinions and user groups into master plan



Opportunities

- Build on park character to attract new visitors
- Create a resilient network of biodiverse areas in the park
- Draw new visitors with programming/education based on history of park
- Redevelop park areas to better serve visitors and environment
- Provide unique recreational facilities to draw visitors from across the region
- Create good working relationship with neighbors and partner organizations
- Create consistent, convenient wayfinding system to give visitors confidence
- Ensure that users of all abilities feel empowered to take full advantage of the park
- Offer new and exciting activities/programs to visitors of the park to both boost tolling and gather user fees
- Take advantage of proximity to urban population to grow revenue and system awareness
- Build on enthusiasm of Lake Erie visitors with exciting, engaging programs and events
- Draw new users with a connected, accessible, welcoming and safe park environment
- Create good working relationship with surrounding municipalities
- Create vibrant park through robust, transparent public outreach



With these in mind, the following list of projects, plans, and studies was developed. Major and minor projects have been identified as priorities and assigned a timeline, and the accompanying studies have been listed. These pages should serve as a blueprint for the future of the park over the next five years.

Large Facilities

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Develop Huron River south connectivity plan	Engineering	Planning, Operation, Maintenance	Foundation, Contractors, Consultants	TBD			x	Not started
Implement Engineering fieldhouse plan	Engineering	Planning, Operations, Maintenance	Contractors	TBD		x	x	Not started
Develop Whitmore Lake-Rickett Road conceptual site plan	Planning, Engineering	Operations, Maintenance	Contractors	TBD			x	Not started
Develop Maltby & Rickett Road conceptual site plan for future use	Planning, Engineering, NR	Operations, Planning	Foundation, Contractors	TBD		x		Not started



Infrastructure / Small Facilities

Description	Department Lead	Other Department	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Accessibility improvements, including interiors and walkways - parkwide	Engineering	Planning, Operations	Contractors	TBD	x	x	x	Ongoing
Pursue Whitmore Lake Road easement with Green Oak Township per property sale commitment	Engineering	Planning, Operations, Maintenance	Contractors	TBD				Complete
Replace Sunset Ridge playground	Planning	Engineering, Operations, Maintenance	Contractors	\$100,000			x	Not started
Install tollbooth + associated staff support space on park entrance road north of Hammel Road	Engineering	Operations, Planning, Maintenance	Contractors	\$120,000		x		Not started
Implement Maltby Lake trail improvement plan	Engineering	Planning, Operations, Maintenance, NR	Contractors	TBD	x			In the works
Implement parking overflow conceptual plan (resulting from parking study)	Engineering	Operations, Maintenance	Contractors	TBD	x			Not started
Improvements: Sunset Ridge trailhead, golf course trailhead, Cedar Ridge pedestrian crossing	Engineering	Planning, Operations, Maintenance	Contractors	TBD				Complete

Natural Resources

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Vegetation management (annual)	NR	Planning, Operations	Contractors	\$30,000.00	x	x	x	Ongoing
Hazardous waste removal (annual)	NR			\$2,000.00	x	x	x	Ongoing
Early detection rapid response. Invasive species surveys and control in high quality natural areas (annual)	NR	Interpretive	MDNR	\$12,000.00	x	x	x	Ongoing
Wildlife management (annual)	NR	Operations, Maintenance, Police		staff time	x	x	x	Ongoing
Conduct prescribed fire in fire adapted communities	NR		Contractors	\$4,000.00	x	x	x	Ongoing
Oak wilt control and prevention	NR	Operations, Interpretive	MDNR	\$4,500.00	x	x	x	Ongoing
Grasslands restoration	NR		Contractors	\$40,000.00	x	x	x	Ongoing
Maltby Lake Fen/Swamp Restoration	NR			\$10,000	x	x	x	Ongoing
Oak Barren restoration south of Hammel Road and elsewhere	NR		Contractors	\$30,000	x	x	x	Ongoing
Wetland complex restoration along the Huron River	NR		MDNR, NGOs	\$40,000.00	x	x	x	Ongoing
Rustic trail connectivity improvements	NR	Planning, Operations, Maintenance		TBD	x	x	x	Ongoing



Signage

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Develop and install interpretive signage	Interpretive	Operations, Planning, Marketing		\$5,000.00			x	Not started
New Branding, System-Wide	Marketing	Planning, Operations		TBD	x	x	x	Ongoing



Area Plans/Studies/Initiatives

After identifying the need for changes or improvements based on user feedback and staff research, in-depth evaluation and planning must be carried out to gain a detailed understanding of problems and opportunities and determine the best strategies based on existing conditions and resources. Sometimes a process to formally monitor facility usage and gauge popularity is necessary. These studies often result in a scope of work, a work plan and in some cases a site plan that give staff a roadmap for planned changes. Recommended studies are listed below:

Description	Department Lead	Other Department	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Develop plan for Engineering fieldhouse: strategy for HCMA file digitization/climate-controlled long-term storage; identify permanent location for field engineers; determine timeline for demo	Planning, Engineering	Administrative		staff time	x			Not started
Maltby Lake trail improvement plan: determine potential short-term and long-term impacts to an improved trail surface around Maltby Lake; explore opportunities for ADA accessibility	Planning	Engineering, NR, Operations, Maintenance		staff time	x			Not started
Whitmore Lake-Rickett Road conceptual site plan: work with adjacent property owners to develop a site plan for activating and connecting these parcels to the rest of the park	Planning	Engineering, Operations, Maintenance	Legacy Center, LLC, Green Oak Township, Livingston County Road Commission	staff time			x	Not started
Maltby & Rickett Road conceptual site plan: determine desired future use of area	Planning	Engineering, Operations,		staff time			x	Not started
Electric Vehicle (EV) Stations	Planning	Engineering, Operations		staff time		x		Not Started

Area Plans/Studies/Initiatives (cont'd)

Description	Department Lead	Other Department	Other Partners	Cost Estimate	Short-Term (2022-2024)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Parking study: consider access to sledding hill, trails south of Hammel Road, overflow parking for large events	Planning	Engineering, Operations, Maintenance, NR		staff time	x			Not started
Winter activities study: evaluate options for enhancing existing winter recreation amenities and incorporating new activities	NR	Maintenance, Engineering, Planning	Contractors	staff time	x	x	x	Ongoing
Sustainability initiatives	NR	Operations, Planning, Engineering		TBD	x	x	x	Ongoing
Establish invasive species control tracking website	NR	Web, IT	MNFI, MISIN	staff time	x	x	x	Ongoing
Stormwater monitoring	NR			\$5,000	x	x	x	Ongoing
Herpetological surveys	NR		NGOs	\$15,000	x	x	x	Ongoing
European Frog Bit control research	NR		Local universities	\$20,000	x	x	x	Ongoing
Canoe/kayak access study throughout park	Planning	Engineering, NR, Operations, Interpretive	HRWC	TBD		x		Not started
Implement canoe/kayak access improvements strategy	Planning, Engineering	Operations, Maintenance	Contractors	TBD		x	x	Not started

INDIAN SPRINGS METROPARK MASTER PLAN



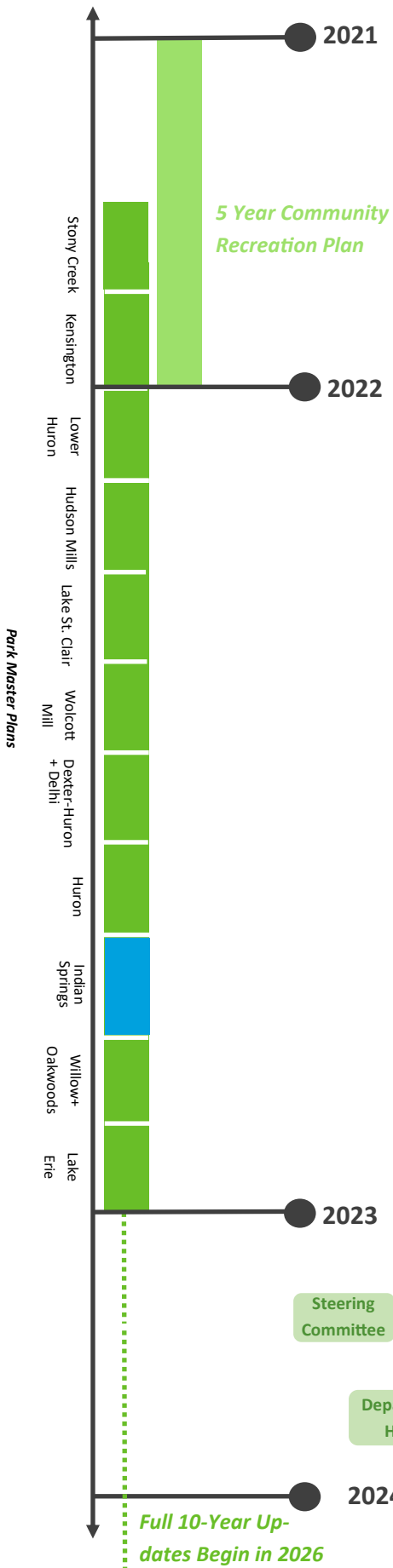
5 Year Update to 2017 - 2027

DRAFT



Introduction

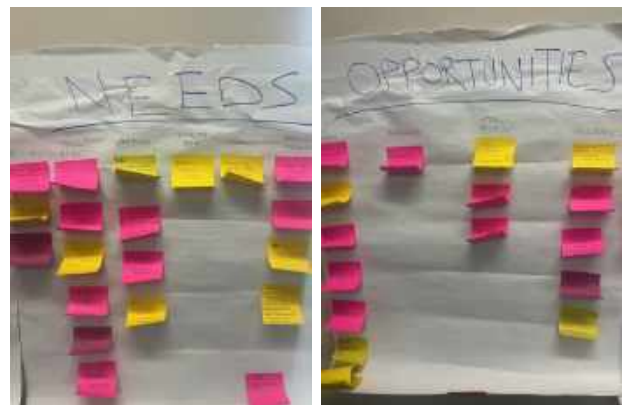
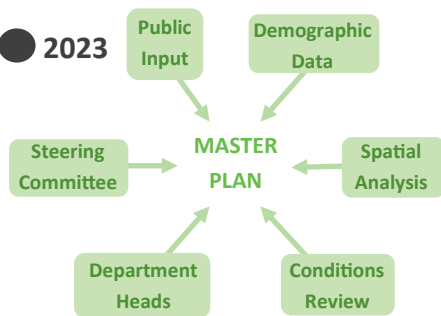
Planning Process



The five-year update is an opportunity for each of the 13 Metroparks to review their master plan and make sure it is still relevant. This review includes 1) major changes to facilities, infrastructure and programming in the park; 2) updated needs and opportunities; 3) completed action items; and 4) any new actions necessary to implement the goals and policies for the park. One of the most important components is the public input collected through meetings, questionnaires, and online comments, all of which influence plan recommendations. A master plan steering committee was formed to include park employees with exceptional knowledge of Indian Springs and surrounding community who, along with the experienced Metroparks administrative department heads provided their professional opinions.

The Planning and Development Department also included updates to the demographic and spatial data to inform recommendations. Demographic data looks at the density, age, income, language, and other factors of the regional population. Spatial data, usually analyzed through Geographic Information System (GIS) software, looks at the physical location of the parks in relation to other recreation opportunities, transportation facilities, population centers, important natural resources, and more. Finally, the planning staff conducted a review of park conditions to identify areas needing improvement and areas experiencing success.

The master plans are intended to be living documents, modified as needed to reflect changing conditions in the parks with this review every five years. However, they focus on park developments over ten years, and will be updated through a more comprehensive planning process at the end of the planning horizon.



The Steering Committee met on 8/25/2022

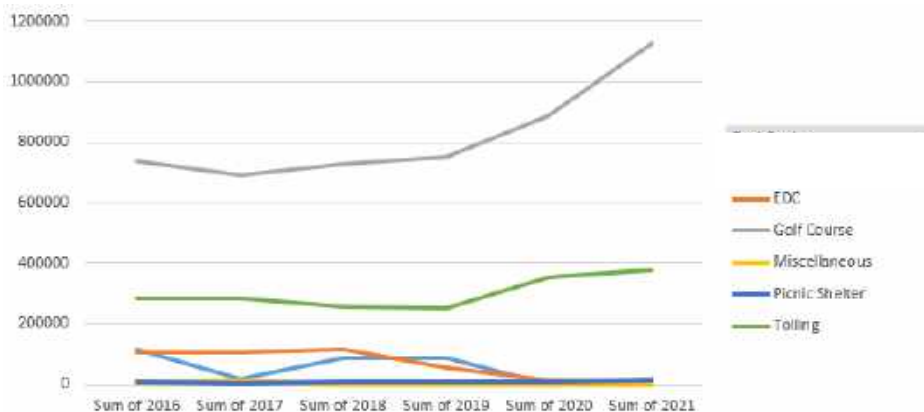
REVENUE

Revenue Sources

2021 Operations Revenue

Revenue Source	2021 Total
Golf Course	1,123,290.67
Tolling	375,792.33
Activity Center Rental	16,350.00
EDC	6,633.26
Picnic Shelter	11,430.69
Miscellaneous	288.20
Total	1,533,593

***2021 Operations Revenue was irregular due to the COVID pandemic.**



REVENUE TRENDS 2016-2021— INDIAN SPRINGS

NEEDS

Diversify sources of revenue

Offer new and exciting activities/ programs to visitors to both boost tolling and gather user fees

OPPORTUNITIES

The Metroparks 2021 General Fund revenue equaled \$59,729,968. Indian Springs 2021 operations revenue was approximately \$1,533,593 comprising 2.56% of all Metroparks revenue.

Indian Springs budgeted 2022 operations revenues are \$1,406,014 , while estimated 2022 operations expenses are \$2,274,404. Property tax and other revenue is estimated to subsidize 38.2% of the Indian Springs operating budget.

Revenue

Visitors

Indian Springs Metropark is a regional park and can draw from the approximately 3,600,538 Michigan residents that live within a 30 mile radius (approximately a 45-minute drive) of the park. Certain events and activities may draw visitors from greater distances.

Vehicle entries to Indian Springs Metropark have hovered between 85,000 and 113,000 since 2014, fluctuating through the years but experiencing an increase overall. Weather often plays a role in attendance to the park; activity areas greatly affected by weather are the trails, nature center and golf course.

Consolidation of statistical information is needed to better assess vehicle entries, park users, event attendance, event participants and activity participation within the park. This information will help with marketing of events, activities and future analysis of the park.

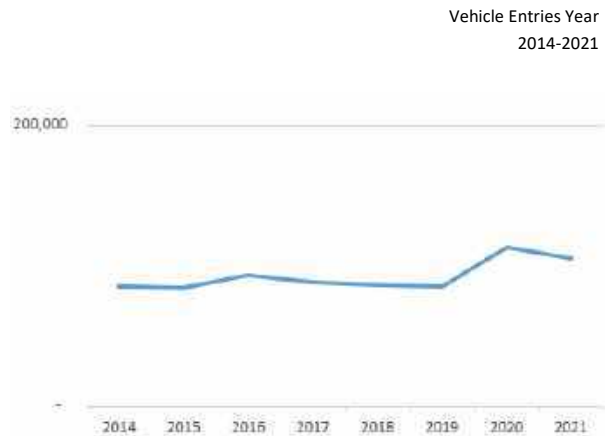


NEEDS

Target market strategy

Take advantage of proximity to urban population to grow revenue and system awareness

OPPORTUNITIES



Indian Springs Metropark 30-Mile radius



Programs & Events



NEEDS

Increase revenue and visitation

Build on enthusiasm of Indian Springs visitors with exciting, engaging programs and events

OPPORTUNITIES



Great Pumpkin Hunt



Easter Egg Scramble



Learning Kits

2022 Integrated Marketing Plan

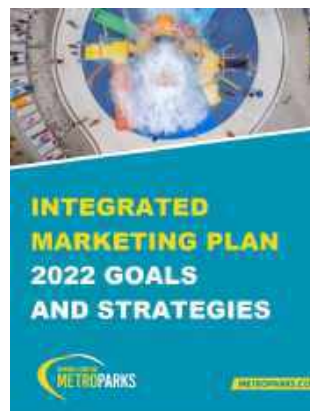
Educational and public programs looked much different than “average” in 2020. Staff adjusted to ever-changing situations of the pandemic to continue serving visitors on multiple platforms using virtual and hybrid programs, as well as small-group, in person, outdoor programs. These new practices will carry over into 2022 and staff will continue working collaboratively to provide exciting new experiences for the Lower Huron communities in ways that are safe and engaging.

2020-2022 Recreation Programming Plan

In 2022, the Metroparks amended the 2020-2022 Community Recreation Plan to include a Recreation Programming Plan.

An important element of programming is accessibility and ensuring all programs, events, and services are compliant with the American Disability Act (ADA) requirements.

To achieve this, the Metroparks has begun self-evaluation of all programming and services offered by each department. Each program was categorized into groups of similar activities (e.g. programs, events, activities) and will then be analyzed each activity in terms of vision, hearing, and mobility barriers that may exist.



COMMUNITY INFLUENCES

Population

The population of the communities surrounding Indian Springs is aging rapidly and changing in mobility. The percentage of households without access to an automobile is gradually rising in the region, Oakland County, and the municipalities directly surrounding Indian Springs. The Metroparks were created at the time of the auto boom, when it was assumed that every family would have a car to take out to the countryside on the weekends. Since habits and lifestyles are changing, the Metroparks must look into innovative ways to provide access to the parks for all.

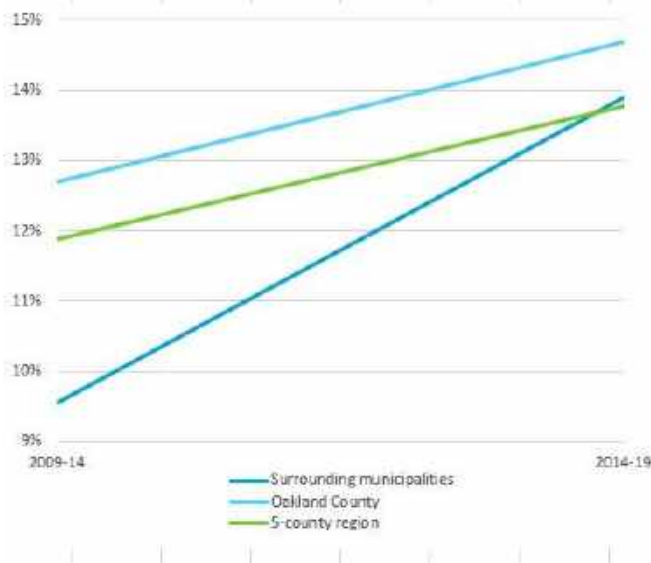
The percentage of individuals over 65 years of age is rising quickly in the region, in Oakland County, and most dramatically in communities surrounding the park. Older adults have distinct needs, often requiring accommodations for mobility and accessibility of park features such as trails and buildings. This is important to keep in mind when planning the future of a park serving an older population.

NEEDS

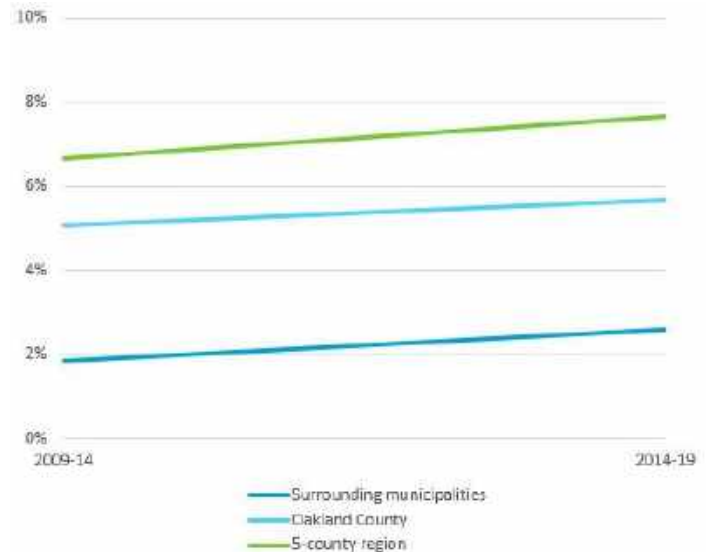
Address changing needs of new population demographics

Draw new users with a connected, accessible, welcoming and safe park environment

OPPORTUNITIES



CHANGE IN PERCENT OF POPULATION OVER 65 YEARS, FROM 2009-14 through 2014-19 (Source: US Census American Community Survey)



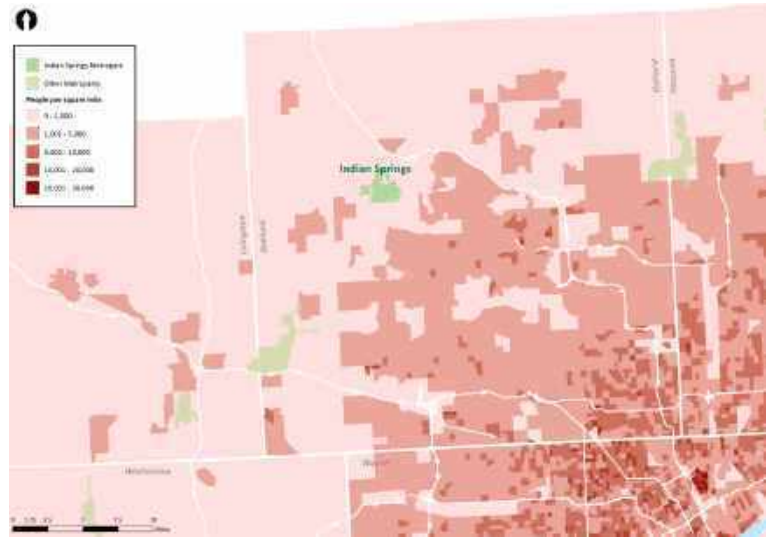
CHANGE IN PERCENT OF HOUSEHOLDS WITH NO CARS AVAILABLE, 2009-14 through 2014-19 (Source: US Census American Community Survey)

Community Influences

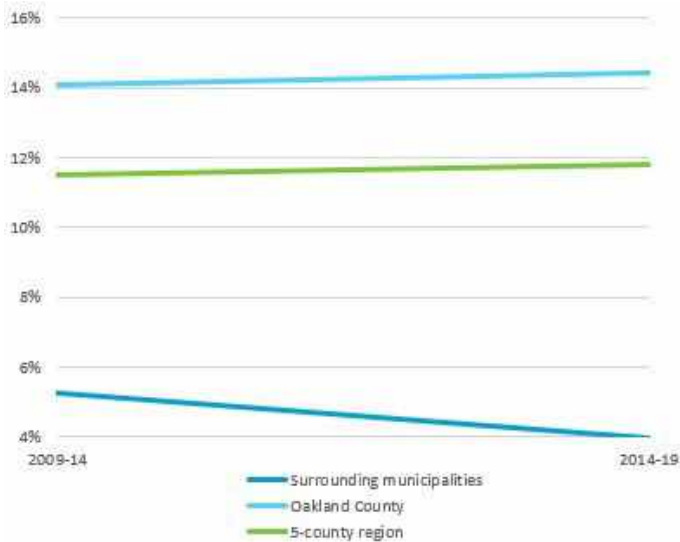
As shown below, Indian Springs is located in a lower residential density area than many other Metroparks, with the majority of land use characterized as single family residential. The areas directly bordering the park have an average population between 0 and 1,000 people per square mile. Residential development in the area is limited by factors including the recreational and conservation lands which also include sensitive natural features surrounding Indian Springs.

While on average the 5-county region is falling in population density, the population density in both Oakland County and the surrounding municipalities has risen slightly, creating increased demand for recreation in the area.

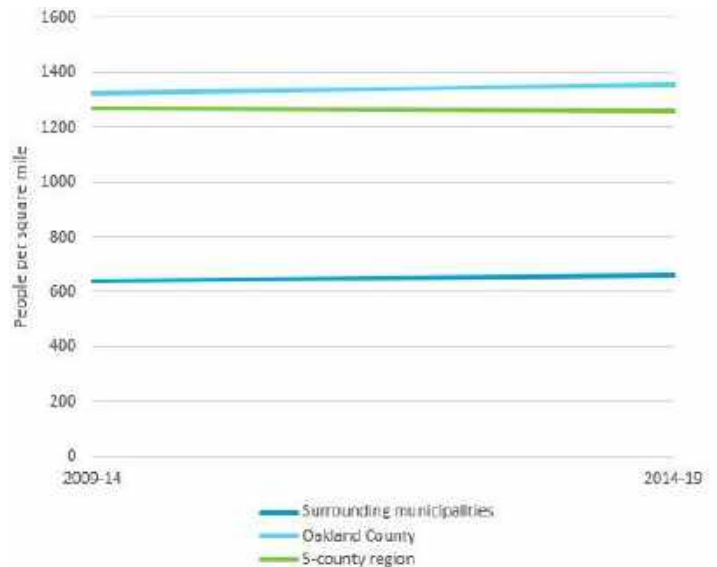
Although most households in the area still speak English as their first language, Oakland County and the region at large are seeing a slight increase in households speaking languages other than English at home. Because of this growing linguistic diversity the Metroparks are working towards more universal signage design, with a focus on easily understandable symbols. Both White Lake and Springfield Townships do not follow this trend, having decreased numbers of speakers of other languages.



POPULATION DENSITY BY CENSUS TRACT, 2014-19



CHANGE IN PERCENT OF HOUSEHOLDS SPEAKING LANGAGE BESIDES ENGLISH AT HOME, 2009-14 through 2014-19 (Source: US Census American Community Survey)



CHANGE IN AVERAGE POPULATION DENSITY, 2009-14 through 2014-19 (Source: US Census American Community Survey)

NEEDS

Improve connectivity within the park and with the community

Create good working relationship with surrounding municipalities

OPPORTUNITIES

Understanding the goals and plans of municipalities bordering and/or containing Indian Springs is essential for a collaborative, comprehensive planning process. Planning staff researched the published master plans and recreation plans of surrounding municipalities, counties, and regional agencies. These provided a basic idea of the direction planned for each, especially regarding land use, development, and recreation.

Springfield Township

- Planned low density residential land use
- Maintain the traditional small cottage lot lakefront medium density for the nearby area surrounding Big Lake, extending to Andersonville Road, and in the area abutting the Huron Swamp.

White Lake Township

- Develop a centrally-located community recreation center, perhaps in conjunction with a town center
- Develop a system of pathways in the Township that can connect residential neighborhoods to each other and with shopping areas.

Oakland County Parks and Recreation

- Land acquisition strategies that focus on opportunities to protect and restore natural areas, protect water quality, and increase or establish trail and green infrastructure continue to be a priority.

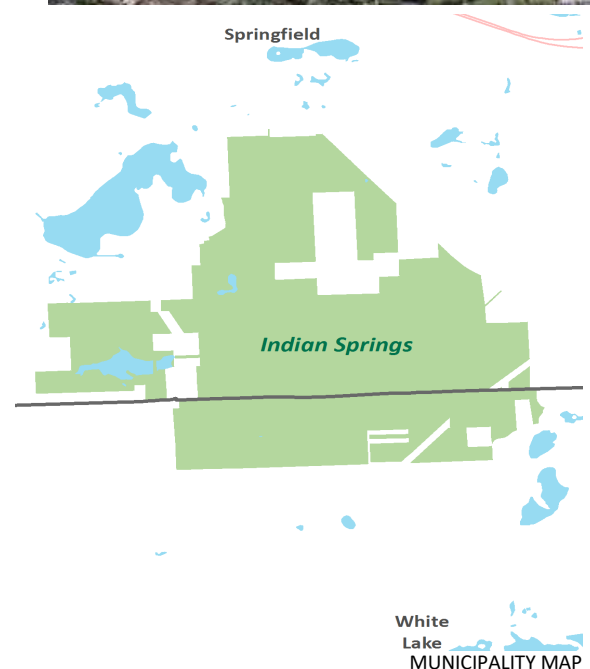
Multi-Jurisdictional “The Headwaters Project”

- The Shiawassee and Huron Headwaters Resource Preservation Project (referred to as “The Headwaters

Projects/Initiatives

Project”) completed in 2000 identified and ranked important natural resources within the park and surrounding communities. The project contracted with the Michigan Natural Features Inventory (MNFI) and established opportunities and protective mechanisms for threats to the significant natural areas including:

- Maintain closed canopy of southern mesic forest and swamp.
- Conduct annual monitoring for exotic invasive plants.
- Maintain old fields as grasslands to provide habitat for grassland nesting birds.
- Private lands surrounding the Huron Swamp Complex should be encouraged to provide a native plant buffer between high use areas and the swamp.



Community Influences

Relevant Planning Documents

Oakland County Trails Master Plan, 2008

Springfield Township Parks and Recreation Master Plan 2019-

Oakland County Parks and Recreation Master Plan, 2019-2023

White Lake Township Master Plan, 2010-2011

SEMCOG Green Infrastructure Vision, 2014

“The largest wetland system within the Township is Huron Swamp, located in Indian Springs Metropark....These resources are significant for their wildlife habitat, water filtration, and ground water recharge capacities.”

“White Lake lives up to its slogan as a ‘Four Seasons Playground,’ with a variety of public and private recreation opportunities available all year-round.” pg. 11

“Public accessibility to the green infrastructure network is paramount, including access to parks, trails, water, and ensuring public spaces are designed for all residents.” pg. 1

Since the development and land use decisions of bordering communities and other governmental agencies directly impact the park, these neighbor master plans were reviewed and taken into account when creating this document. The opinions and ideas expressed by residents and leaders in these municipalities give Indian Springs a wider context and in many cases underscore the importance of the park’s resources to citizens.

Indian Springs Metropark is part of a broader system of recreation and green space that includes other Metroparks as well as local, county, and state parks and greenways. Due to this, recreation and green infrastructure plans were also considered in creating the Indian Springs Master Plan. Many communities are currently advancing their non-motorized networks, seeking grant funding to create greenways and paths, and cooperating to provide linked green and recreation spaces to their constituents.



PUBLIC INPUT

← Outreach Process

2022 Community Needs and Assessment

ETC Institute administered a needs assessment survey for Huron-Clinton Metroparks (HCMA) during the Spring of 2022. The survey was administered as part of Metroparks' efforts to establish and priorities improvements to the parks system, which included 13 parks covering more than 25,000 acres in Wayne, Oakland, Macomb, Livingston and Washtenaw counties. The survey and its results will guide HCMA in taking a resident-driven approach to making decisions that will enrich the future of the community and positively affect the lives of all residents in southeast Michigan.

ETC Institute mailed a survey packet to a random sample of households in Livingston County, Macomb County, Oakland County, Washtenaw County, Wayne County (outside the City of Detroit), and the City of Detroit.

Location	Completed	%
	Surveys	Precision
<i>Livingston County</i>	479	±4.5%
<i>Macomb County</i>	511	±4.3%
<i>Oakland County</i>	583	±4.1%
<i>Washtenaw County</i>	514	±4.3%
<i>Wayne County (Outside Detroit)</i>	407	±4.9%
<i>City of Detroit</i>	405	±4.9%
Total	2,899	±1.8%

The table above shows the number of completed surveys collected in each of the six sampling areas. The table also shows the margin of error at the 95% level of confidence for each area.

The results presented in this report have been weighted to represent each sampling area's share of the population of the Huron-Clinton Metroparks service area. The weighted results give more weight to the responses from the larger sampling areas, including Macomb County, Oakland County, Wayne County (outside Detroit), and the City of Detroit, and similarly gives less weight to the responses of the smaller sampling areas, including Livingston County and Washtenaw County

Priorities for Parks & Recreation Facility Investments in the Huron-Clinton Metroparks Service Area

The Priority Investment Rating (PIR) was developed by ETC Institute to provide organizations with an objective tool for evaluating the priority that should be placed on Parks and Recreation investments. The Priority Investment Rating (PIR) equally weighs:

- the importance that households place on each facility/amenity/ activity/program
- how many households have unmet needs for the facility/

Facility	Priority Investment Rating (PIR)
<i>Trails-paved, multi-use (walking, biking)</i>	189.2
<i>Beaches</i>	174.7
<i>Natural areas</i>	145.7
<i>Trails-unpaved, nature trails</i>	139.7
<i>Trails-unpaved, hiking</i>	137.2
<i>Nature centers</i>	114.2
<i>Canoe/kayak launch sites</i>	110.2
<i>Outdoor swimming pools</i>	107.9

Results

Oakland County (Outside of Detroit)

The table below shows the Priority Investment Ratings (PIR) for parks and recreation facilities, based on the PIR analysis conducted using the data from Oakland County households. The following six facilities were rated as high priorities for investment:

- Paved multi-use trails for walking and biking
- Unpaved trails for hiking
- Beaches
- Natural areas
- Unpaved trails, nature trails
- Canoe/kayak launch sites
- Nature centers

Facility	PIR	Priority
Trails-paved, multi-use (walking, biking)	200.0	High Priority (PIR=100-200)
Trails-unpaved, hiking	152.9	
Beaches	143.9	
Natural areas	142.0	
Trails-unpaved, nature trails	139.0	
Canoe/kayak launch sites	109.1	
Nature centers	102.5	Medium Priority (PIR=50-99)
Outdoor swimming pools	96.6	
Canoe/kayak rentals	89.0	
Trails-mountain biking	83.2	
Picnic shelters	70.0	
Picnic tables	69.9	
Fishing banks or docks	68.2	
Playgrounds	62.8	
Waterslides	58.7	
Splash pad (water play area)	49.5	
Camping areas-primitive sites	48.4	Low Priority (PIR=0-49)
Golf courses	45.4	
Camping areas-RVs	43.4	
Golf driving ranges	42.7	
Camping areas-group sites	39.2	
Boat docks	30.8	
Boat ramps	29.2	
Disc golf	28.1	
Marinas	20.0	

The table below shows the Priority Investment Ratings (PIR) for parks and recreation programs, based on the PIR analysis conducted using the data from Oakland County households. The following 11 programs were rated as high priorities for investment:

- Concerts
- Bird/wildlife watching programs
- Walking clubs/programs
- Pet-friendly programs
- Environmental education programs
- Astronomy programs
- Art/photography
- Guided nature hikes
- Camping
- Movies in the park
- Natural/cultural history programs

Program	PIR	Priority
Concerts	200.0	High Priority (PIR=100-200)
Bird/wildlife watching programs	178.2	
Walking clubs/programs	153.5	
Pet-friendly programs	142.7	
Environmental education programs	136.4	
Astronomy programs	131.1	
Art/photography	129.1	
Guided nature hikes	124.8	
Camping	122.8	
Movies in the park	110.8	
Natural/cultural history programs	103.8	
Guided canoe/kayak tours	96.5	Medium Priority (PIR=50-99)
Farm educational programs	81.2	
Water fitness programs	74.5	
Fishing programs	74.1	
Programs for people with disabilities	65.6	
Golf lessons	59.4	
Swim lessons	46.1	
Boating classes	42.4	
Running clubs/programs	39.2	
Guided motorized boat tours	31.0	
Golf tournaments	28.1	
Scouting	22.9	
Homeschool programs	22.3	
Virtual programs	13.2	

Action Plan

Needs & Opportunities

Based on the assessment of park conditions, demographic research and spatial analysis, public input, and staff input, the needs and opportunities listed throughout this document were developed. [5-year updates are in blue text](#)

Needs

- Continue to draw diverse range of visitors to the park
- Define and protect areas with important biodiversity features
- Better educate the importance of preserving important cultural features
- Address aging and overbuilt infrastructure
- Identify areas of facility duplication for repurposing and consolidation
- Work with county and local communities to address any park boundary issues
- Replace outdated, confusing, inconsistent signs
- Pursue improvements to park accessibility
- Diversify sources of revenue
- Target market strategies
- Increase revenue and visitation
- Address changing needs of new population demographics
- Improve connectivity within the park and with the community
- Incorporate variety of opinions and user groups into master plan



Opportunities

- Build on park character to attract new visitors
- Create a resilient network of biodiverse areas in the park
- Draw new visitors with programming/education based on history of park
- Redevelop park areas to better serve visitors and environment
- Provide unique recreational facilities to draw visitors from across the region
- Create good working relationship with neighbors and partner organizations
- Create consistent, convenient wayfinding system to give visitors confidence
- Ensure that users of all abilities feel empowered to take full advantage of the park
- Offer new and exciting activities/programs to visitors of the park to both boost tolling and gather user fees
- Take advantage of proximity to urban population to grow revenue and system awareness
- Build on enthusiasm of Indian Springs visitors with exciting, engaging programs and events
- Draw new users with a connected, accessible, welcoming and safe park environment
- Create good working relationship with surrounding municipalities
- Create vibrant park through robust, transparent public outreach



With these in mind, the following list of projects, plans, and studies was developed. Major and minor projects have been identified as priorities and assigned a timeline, and the accompanying studies have been listed. These pages should serve as a blueprint for the future of the park over the next ten years.

Large Facilities

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Implement Park Office building use strategy	Operations	Engineering, Planning	Contractors	TBD		x	x	Not started
Implement new maintenance building development strategy	Engineering	Planning, Operations	Contractors	TBD		x	x	Not started
Implement EDC selective redevelopment strategy	Engineering	Planning, Interpretive, Operations	Contractors	TBD		x		Not started
Update mechanical equipment at Golf Course	Engineering	Planning, Operations	Consultants, Contractors	TBD		x		Not started



Infrastructure / Small Facilities

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Pavement projects (list developed annually, as needed)	Engineering	Planning, Operations	Contractors	various	x	x	x	Ongoing
Accessibility improvements, including interiors and walkways- parkwide	Engineering	Planning, Operations	Contractors	various	x	x	x	Ongoing
Accessibility improvements, picnic shelters	Engineering	Planning, Operations	Contractors	various				Complete
Replace underground with above-ground fuel storage at Golf Course	Engineering	Operations, Maintenance	Contractors	\$120,000.00	x	x	x	Ongoing
Hike-bike trail connectivity improvements: create loop system, develop spur to Timberland Lake	Engineering	Plan, Op, Maint, Int, NR	Contractors	TBD		x	x	Not started
Implement Meadowlark playground removal plan	Engineering	Planning, Operations, Maintenance	Contractors	TBD	x			Budgeted
Golf course infrastructure upgrades; irrigation, parking lot	Engineering	Planning, Operations, Maintenance	Contractors	TBD			x	Not started
Implement Adventure playground selective redevelopment plan	Engineering	Planning, Operations, Maintenance	Contractors	TBD	x	x		Budgeted
Implement Schmitt Lake concept plan	Engineering	Planning, NR, Operations, Maintenance		TBD	x	x	x	Study Underway
Implement outdoor art initiative	Interpretive	Planning, Operations, Maintenance	Foundation	TBD	x	x	x	Ongoing

Natural Resources

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Vegetation and invasive species management (annual)	NR	Planning, Operations	Contractors	\$30,000.00	x	x	x	Ongoing
Sustainability initiatives	NR	Planning, Engineering, Interpretive	Contractors	\$3,500.00	x	x	x	Ongoing
Hazardous waste removal (annual)	NR			\$1,000.00	x	x	x	Ongoing
Early detection rapid response. Invasive species surveys and control in high quality natural areas (annual)	NR	Interpretive	MDNR	\$10,000.00	x	x	x	Ongoing
Deer herd and ecosystem management based on best practice standards	NR	Police, Interpretive, Operations	MDNR	Staff time	x	x	x	Ongoing
Geese and Swan Management	NR	Operations	MDNR, USDA	\$5,000.00	x	x	x	Ongoing
Conduct prescribed fire in fire adapted communities	NR		Contractors	\$4,000.00	x	x	x	Ongoing
Oak wilt control and prevention	NR	Operations, Interpretive	MDNR	\$4,500.00	x	x	x	Ongoing
Wetland complex restoration	NR		MDNR, NGOs	\$40,000.00	x	x	x	Ongoing



Signage

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Trail wayfinding signage improvements	Planning	Maintenance, Interpretive, Operations		\$15,000.00	x	x	x	Not started
Interpretive signage improvements - nature trails and EMR managed lands	Interpretive	Planning, Maintenance, Operations		\$15,000.00	x	x	x	Not started
New Branding Initiative	Marketing	Planning, Maintenance, Operations		\$5,000.00	x	x	x	Ongoing



Action Plan

Area Plans/Studies/Initiatives

After identifying the need for changes or improvements based on user feedback and staff research, in-depth evaluation and planning must be carried out to gain a detailed understanding of problems and opportunities and determine the best strategies based on existing conditions and resources. Sometimes a process to formally monitor facility usage and gauge popularity is necessary. These studies often result in a scope of work, a work plan, and in some cases a site plan that give staff

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Update trail maps to show opportunities for walking/hiking/trail running/pets	Graphics	Planning		staff time	x			Not started
Establish comprehensive Oak Wilt monitoring and treatment protocol	NR	Operations	MDNR	\$10,000.00	x	x	x	Ongoing
Establish Invasive Species Control Tracking Website	NR	IT	MNFI, MISIN	staff time	x	x	x	Ongoing
Comprehensive wildlife surveys and mapping (birds, insects, freshwater mussels)	NR	Interpretive	NGOs, Consultants, MNFI	\$35,000.00	x	x	x	Ongoing
New maintenance building strategy: maintenance activities to one site	Planning	Engineering, Operations, Maintenance		staff time	x	x	x	Ongoing
Park office building strategy: identify opportunities for maximizing use. Determine renovations necessary to incorporate existing and any new uses.	Operations	Planning, Engineering, Maintenance		staff time	x			Not started
Meadowlark picnic area site plan: remove playground equipment, improve access and site amenities	Planning	Engineering, Operations, Maintenance		staff time	x			Not started
Adventure playground area selective redevelopment plan: remove maze, install large play structure, <u>develop restroom building to serve playground and Spray 'n' Play</u>, improve accessibility	Planning	Engineering, Operations, Maintenance		staff time	x			Not started
Rustic trail expansion study	NR	Operations., Planning, Maintenance		staff time	x			Not started
Investigate equestrian trailhead/access study	Planning	Operations, Maintenance		staff time		x	x	Not started

Area Plans/Studies/Initiatives (cont'd)

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
EDC selective redevelopment plan: enhance exhibits, enhance event room lighting and storage, improve surrounding landscaping	Planning	Interpretive, Engineering, Operations, Maintenance		staff time	x			Ongoing
Outdoor art initiative: develop environmentally-themed art installation initiative to enhance park character		Planning, Operations, Maintenance	Consultant, Foundation	TBD	x	x	x	Ongoing
Skate skiing feasibility study: investigate the possibility of grooming cross country ski trails for skate skiing	Planning	Operations, Maintenance		staff time	x			Ongoing
Schmitt Lake concept plan: formalize access and connectivity, identified preferred uses	Planning	Operations, NR, Engineering, Maintenance		staff time	x			Ongoing
Eastern Massasauga Rattlesnake population assessment and habitat improvements	NR	Int.	Consultants	\$55,000.00	x	x	x	Ongoing
Fisheries feasibility assessment throughout park	NR	Operations, Planning	MDNR	TBD	x	x	x	Ongoing
Grassland Management Plan (biennial review)	NR	Operations, Interpretive		TBD	x	x	x	Ongoing
Deer program evaluation (vegetation study)	NR	Interpretive	Contractors	\$30,000.00	x	x	x	Ongoing
Partnerships for recreation and educational programming	Operations	Interpretive	Community Partners	staff time, TBD	x	x	x	Ongoing
Prison Site Master Plan	Planning	Operations, Maintenance				x	x	Not started
Implement Stormwater Management Plan Initiatives	Operations	Planning, Maintenance		staff time	x	x	x	Ongoing
Integrate Climate Action Plan into park system operations and maintenance	Planning	NR, Operations, Maintenance		staff time	x	x	x	Ongoing
Implement regional non-motorized plans for park connectivity	Planning	Operations, Maintenance		staff time	x	x	x	Ongoing

WILLOW METROPARK MASTER PLAN



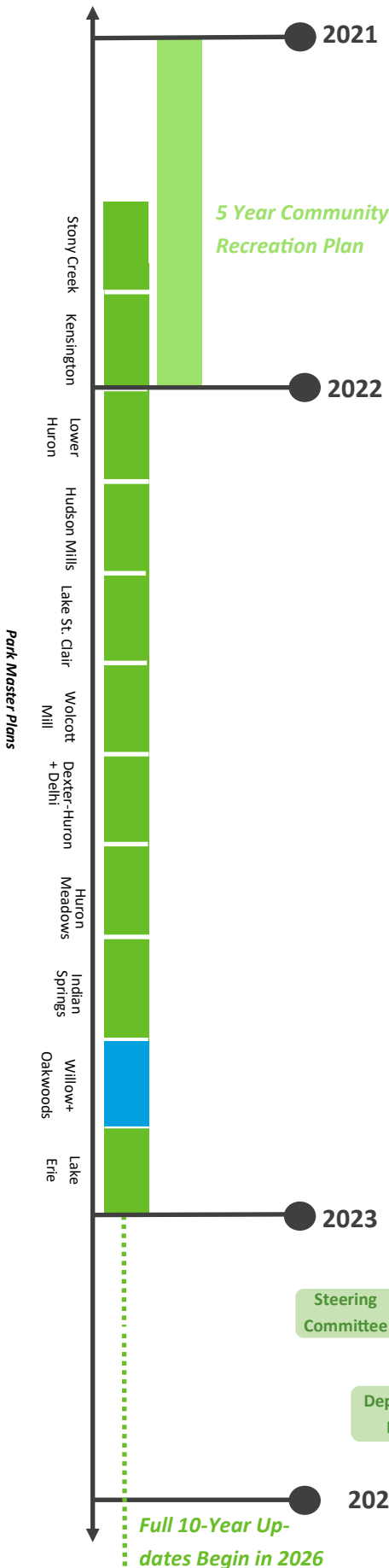
5 Year Update to 2018 - 2028

DRAFT



Introduction

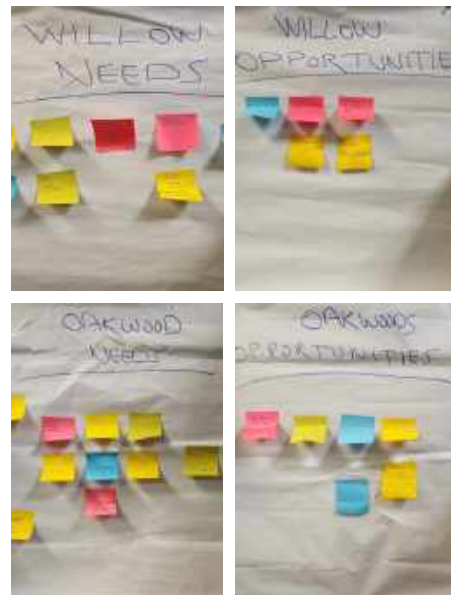
Planning Process



The five-year update is an opportunity for each of the 13 Metroparks to review their master plan and make sure it is still relevant. This review includes 1) major changes to facilities, infrastructure and programming in the park; 2) updated needs and opportunities; 3) completed action items; and 4) any new actions necessary to implement the goals and policies for the park. One of the most important components is the public input collected through meetings, questionnaires, and online comments, all of which influence plan recommendations. A master plan steering committee was formed to include park employees with exceptional knowledge of Willow and Oakwoods and surrounding community who, along with the experienced Metroparks administrative department heads provided their professional opinions.

The Planning and Development Department also included updates to the demographic and spatial data to inform recommendations. Demographic data looks at the density, age, income, language, and other factors of the regional population. Spatial data, usually analyzed through Geographic Information System (GIS) software, looks at the physical location of the parks in relation to other recreation opportunities, transportation facilities, population centers, important natural resources, and more. Finally, the planning staff conducted a review of park conditions to identify areas needing improvement and areas experiencing success.

The master plans are intended to be living documents, modified as needed to reflect changing conditions in the parks with this review every five years. However, they focus on park developments over ten years, and will be updated through a more comprehensive planning process at the end of the planning horizon.



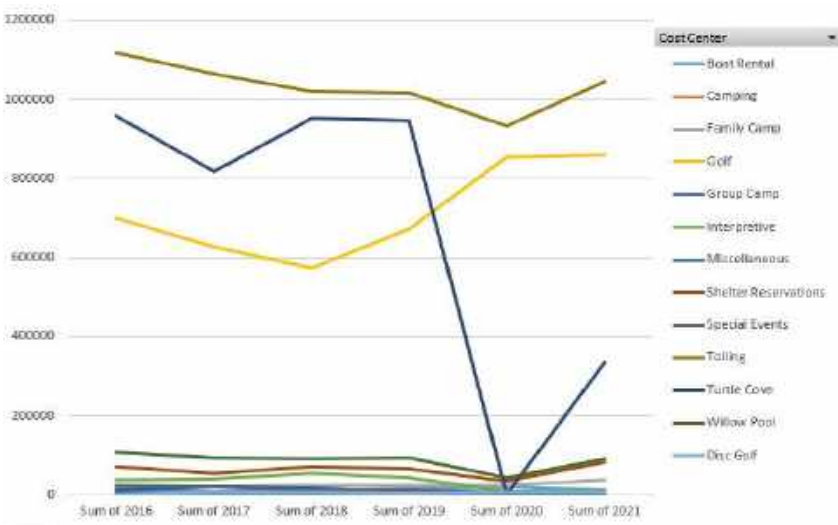
The Steering Committee met on 09/14/2022

Revenue Sources

2021 Operations Revenue

Revenue Source	2021 Total*	% of 2021 Revenue
Turtle Cove	333,740.53	13.4%
Tolling	1,046,057.00	42.1%
Shelter Reservations	82,565.76	3.3%
Camping	40,432.80	1.6%
Special Events	6,444.00	0.3%
Miscellaneous	1,590.90	0.1%
Golf	858,660.57	34.5%
Disc Golf	6,395.00	0.3%
Interpretive	9,563.85	0.4%
Willow Pool	89,125.41	3.6%
Boat Rental– Washago	10,952.58	0.4%
	\$2,485,528.00	100%

*2021 Operations Revenue was irregular due to the COVID pandemic.



REVENUE TRENDS 2016-2021— Lower Huron, Willow, and Oakwoods

NEEDS

Diversify sources of revenue

Offer new and exciting activities/ programs to visitors to both boost tolling and gather user fees

OPPORTUNITIES

The Metroparks 2021 General Fund revenue equaled \$59,729,968. Lower Huron’s 2021 operations revenue was approximately \$2,485,528, comprising 4.2% of all Metroparks revenue.

The budgeted 2022 operations revenues for Lower Huron, Willow, and Oakwoods is \$3,083,260, while estimated 2022 operations expenses are \$6,791,291. These parks are combined in the budgeting process since they are administered together. Property tax and other revenue will subsidize 54.6% (\$3,708,031) of the three parks’ operating budget.

As the chart illustrates, nearly all of Lower Huron’s operations revenue comes from the Turtle Cove Family Aquatic Center and from park entrance tolling.

Revenue

Visitors

Willow and Oakwoods Metropark are regional parks and can draw from the approximately 3,008,000 Michigan residents that live within a 30 mile radius (approximately a 45-minute drive) of them. Certain events and activities may draw visitors from greater distances.

Vehicle entries are combined for Lower Huron, Willow, and Oakwoods Metroparks, and have hovered between 260,000 and 425,000 since 2014, slightly declining over the years but overall moderately stable. Weather often plays a role in attendance to the park; activity areas greatly affected by weather are the trails, Nature Center, golf course and the Willow Pool.

Consolidation of statistical information is needed to better assess vehicle entries, park users, event attendance, event participants and activity participation within the park. This information will help with marketing of events, activities and future analysis of the park.



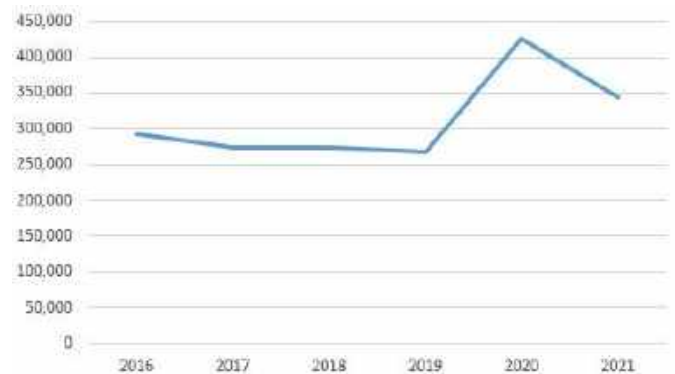
NEEDS

Target market strategy

Take advantage of proximity to urban population to grow revenue and system awareness

OPPORTUNITIES

VEHICLE ENTRIES 2016-2021



Willow and Oakwoods Metroparks 30-Mile radius



Programs & Events



NEEDS

Increase revenue and visitation

Build on enthusiasm of Willow and Oakwoods visitors with exciting, engaging programs and events

OPPORTUNITIES

2022 Integrated Marketing Plan

Educational and public programs looked much different than “average” in 2020. Staff adjusted to ever-changing situations of the pandemic to continue serving visitors on multiple platforms using virtual and hybrid programs, as well as small-group, in person, outdoor programs. These new practices will carry over into 2022 and staff will continue working collaboratively to provide exciting new experiences for the Lower Huron communities in ways that are safe and engaging.

2020-2022 Recreation Programming Plan

In 2022, the Metroparks amended the 2020-2022 Community Recreation Plan to include a Recreation Programming Plan.

An important element of programming is accessibility and ensuring all programs, events, and services are compliant with the American Disability Act (ADA) requirements.

To achieve this, the Metroparks has begun self-evaluation of all programming and services offered by each department. Each program was categorized into groups of similar activities (e.g. programs, events, activities) and will then be analyzed each activity in terms of vision, hearing, and mobility barriers that may exist.



COMMUNITY INFLUENCES

Population

The percentage of households without access to an automobile is gradually rising in the region and in Wayne County. However, the municipalities directly surrounding Willow and Oakwoods show a modest trend downward in households without access to an automobile. The Metroparks were created at the time of the auto boom, when it was assumed that every family would have a car to take out to the countryside on the weekends. Since habits and lifestyles are changing, the Metroparks must look into innovative ways to provide access to the parks for all.

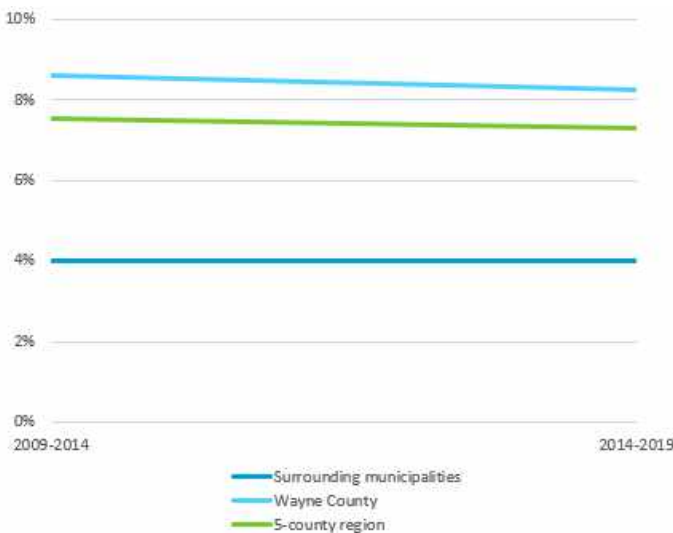
The percentage of individuals over 65 years of age is rising quickly in the region, in Wayne County, and most dramatically in communities surrounding the parks. Older adults have distinct needs, often requiring accommodations for mobility and accessibility of park features such as trails and buildings. This is important to keep in mind when planning the future of a park serving an older population.

NEEDS

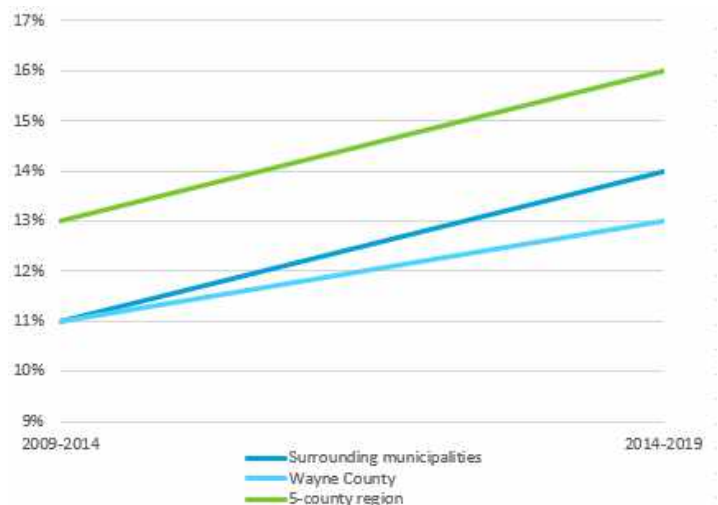
Address changing needs of new population demographics

Draw new users with a connected, accessible, welcoming and safe park environment

OPPORTUNITIES



CHANGE IN PERCENT OF HOUSEHOLDS WITH NO CARS AVAILABLE, 2009-2014 through 2014-19 (Source: US Census American Community Survey)



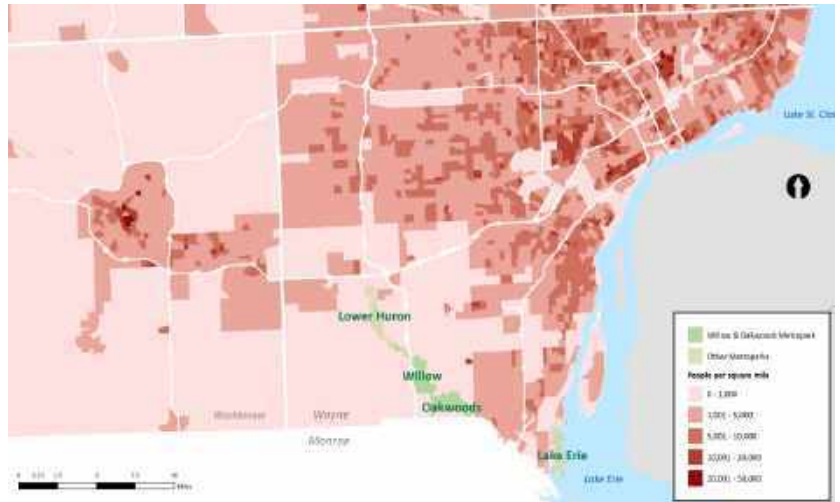
CHANGE IN PERCENT OF POPULATION OVER 65 YEARS, FROM 2009-14 through 2014-19 (Source: US Census American Community Survey)

Community Influences

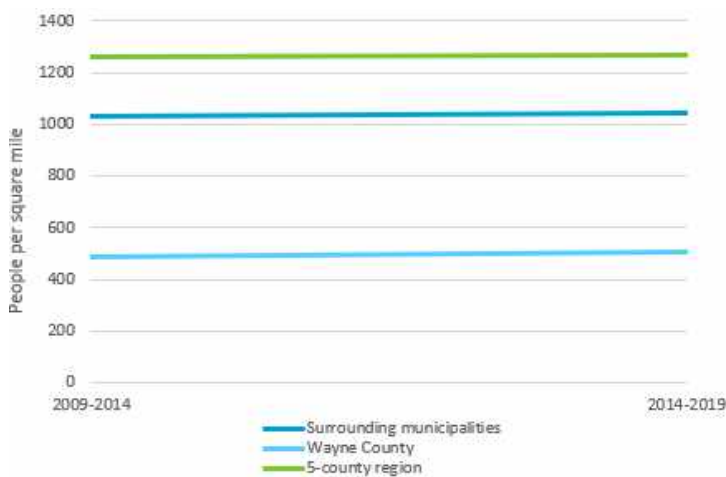
As shown below, Willow and Oakwoods are located in a lower residential density area than many other Metroparks, with the majority of land use characterized as residential. The areas directly bordering the park have an average population between 0 and 1,000 people per square mile. Associated with the noted demographic change will be the impact on housing trends. The aging baby boomers will seek different housing options than past generations of seniors. The desire will be for mixed use walkable environments with more compact smaller housing units, along with more time for passive recreational opportunities that will continue to increase in the surrounding communities.

The population density of the 5-county region, Wayne County, and surrounding municipalities is slightly decreasing overall. Staying aware of development changes in the area will be important to gauge recreation needs.

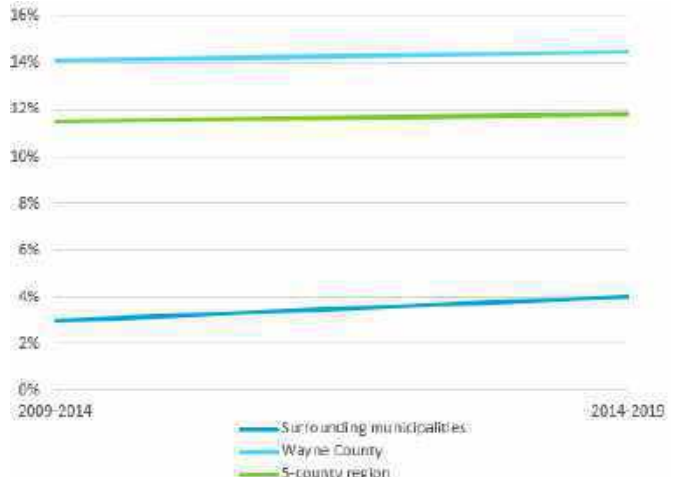
Although most households in the area still speak English as their first language, the communities around Willow and Oakwoods along with Wayne County and the region at large are seeing a slight increase in households speaking languages other than English at home. Because of this growing linguistic diversity the Metroparks are working towards more universal signage design, with a focus on easily understandable symbols.



POPULATION DENSITY BY BLOCK GROUP, 2012-16



CHANGE IN AVERAGE POPULATION DENSITY, 2009-14 through 2014-19
(Source: US Census American Community Survey)



CHANGE IN PERCENT OF HOUSEHOLDS SPEAKING LANGUAGE BESIDES ENGLISH AT HOME, 2009-14 through 2014-19 (Source: US Census American Community Survey)

NEEDS

Improve connectivity within the park and with the community

Create good working relationship with surrounding municipalities

OPPORTUNITIES

Understanding the goals and plans of municipalities and other organizations bordering and/or containing Willow and Oakwoods is essential for a collaborative, comprehensive planning process. Planning staff researched previous park plans along with the published master plans and recreation plans of surrounding municipalities, counties, other agencies. These provided a basic idea of the direction planned for each, especially regarding land use, development, and recreation.

Wyandot of Anderdon Nation, Six Points Master Plan

- The Six Points Village in nearby Gibraltar, Michigan project brings forward awareness of ecology, archeology, history, Indigenous issues, biodiversity and cultural anthropology.

Parks and Recreation Master Plan 2014-2018 Huron Charter Township

- Continued partnership with the various area public and private recreation providers. This includes collaborating and coordinating with the metroparks to provide for the efficient administration of parks and recreation services.

Detroit Heritage River Water Trail Vision Plan

- The Detroit Heritage River Water Trail goes through the Detroit, Huron, Rouge and Raisin Rivers and offers many opportunities for canoeing and kayaking in the region. The water trail follows the Huron River through Willow and Oakwoods with river access and a canoe/kayak launch.

New Boston Overall Improvements, 2015

The on-road non-motorized facility improvements in

Projects/Initiatives

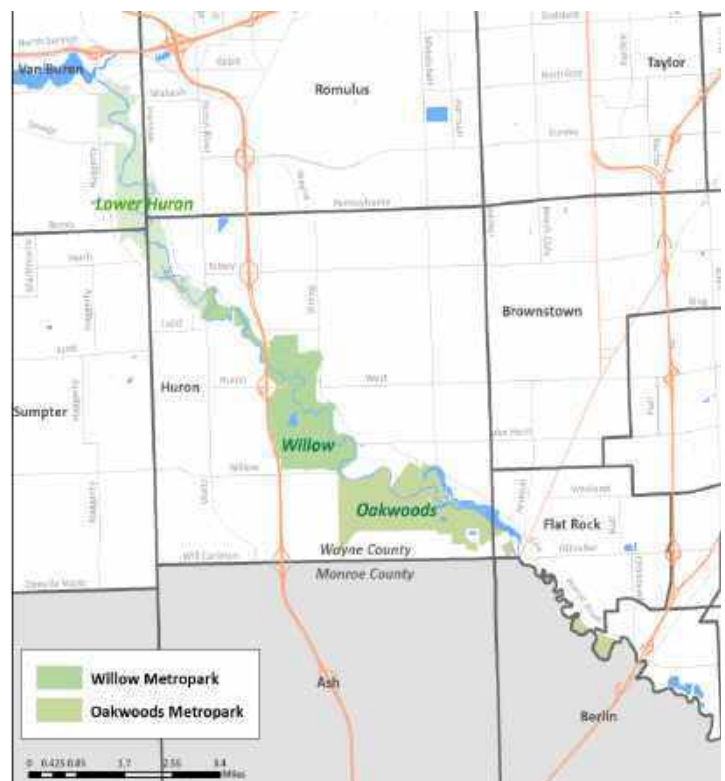
surrounding communities will fill in the gaps to achieve regional connectivity for non-motorized users. The metroparks will need to plan in collaboration for these improvements with potential water trail facilities and hike-bike trail connectors.

Downriver Linked Greenways Initiative (DLGI) Master Plan, 2009 Update

- Twenty-one (21) communities, along with many partners including Huron-Clinton Metroparks, stepped forward and began to map how various trail connections could be made, completed a master plan, and currently being implemented community wide.

Interpretive Plan for the Huron River National Water Trail, December 2017

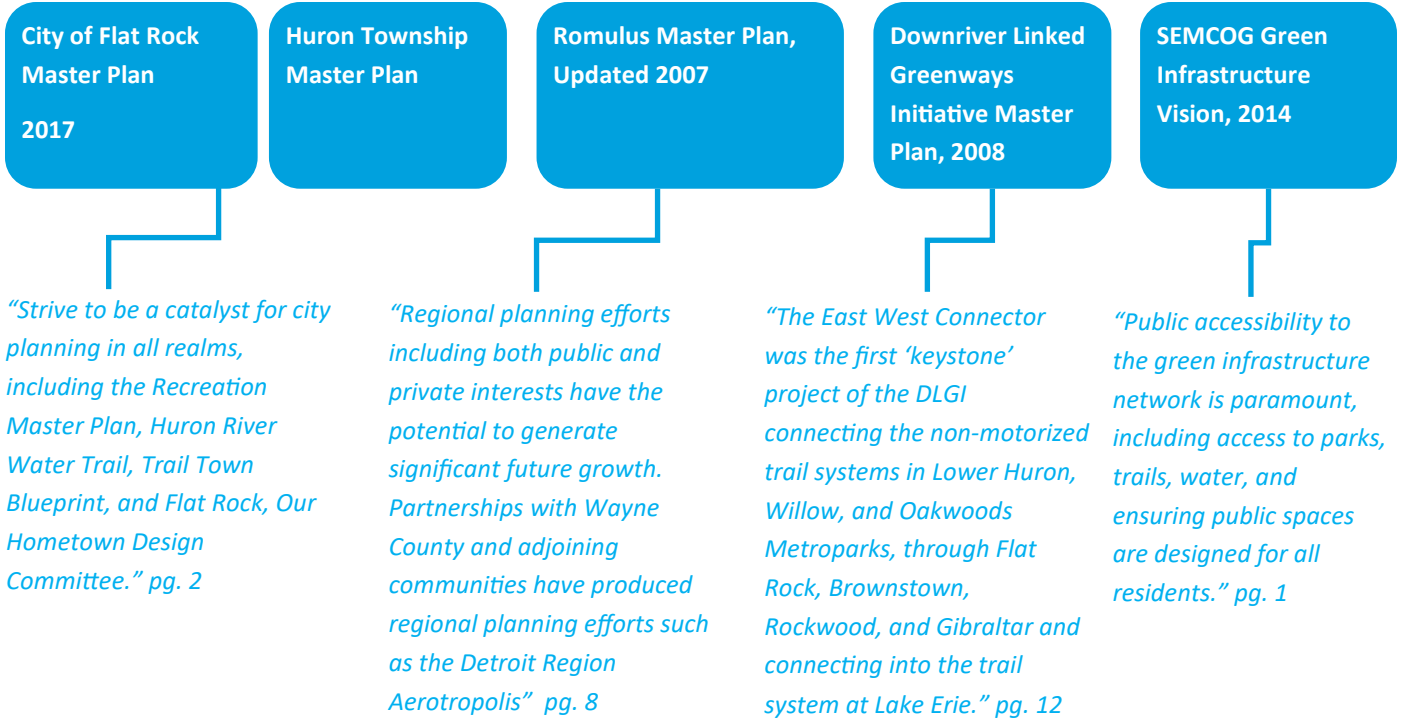
- The purpose of this plan is to help communities and stakeholders incorporate heritage on the lower reach of the nationally designated Huron River Water Trail, from Flat Rock to Lake Erie, which will create a more meaningful trail experience and a greater sense of place.



MUNICIPALITY MAP

Community Influences

Relevant Planning Documents



Since the development and land use decisions of bordering communities and other governmental agencies directly impact the park, these neighbor master plans were reviewed and taken into account when creating this document. The opinions and ideas expressed by residents and leaders in these municipalities give Willow and Oakwoods a wider context and in many cases underscore the importance of the park’s resources to citizens.

Willow and Oakwoods Metroparks are part of a broader system of recreation and green space that includes other Metroparks as well as local, county, and state parks and greenways. Due to this, recreation and green infrastructure plans were also considered in creating the Willow-Oakwoods Master Plan. Many communities are currently advancing their non-motorized networks, seeking grant funding to create greenways and paths, and cooperating to provide linked green and recreation spaces to their constituents.



PUBLIC INPUT

← Outreach Process

2022 Community Needs and Assessment

ETC Institute administered a needs assessment survey for Huron-Clinton Metroparks (HCMA) during the Spring of 2022. The survey was administered as part of Metroparks’ efforts to establish and priorities improvements to the parks system, which included 13 parks covering more than 25,000 acres in Wayne, Oakland, Macomb, Livingston and Washtenaw counties. The survey and its results will guide HCMA in taking a resident-driven approach to making decisions that will enrich the future of the community and positively affect the lives of all residents in southeast Michigan.

ETC Institute mailed a survey packet to a random sample of households in Livingston County, Macomb County, Oakland County, Washtenaw County, Wayne County (outside the City of Detroit), and the City of Detroit.

Location	Completed Surveys	% Precision
<i>Livingston County</i>	479	±4.5%
<i>Macomb County</i>	511	±4.3%
<i>Oakland County</i>	583	±4.1%
<i>Washtenaw County</i>	514	±4.3%
<i>Wayne County (Outside Detroit)</i>	407	±4.9%
<i>City of Detroit</i>	405	±4.9%
Total	2,899	±1.8%

The table above shows the number of completed surveys collected in each of the six sampling areas. The table also shows the margin of error at the 95% level of confidence for each area.

The results presented in this report have been weighted to represent each sampling area’s share of the population of the Huron-Clinton Metroparks service area. The weighted results give more weight to the responses from the larger sampling areas, including Macomb County, Oakland County, Wayne County (outside Detroit), and the City of Detroit, and similarly gives less weight to the responses of the smaller sampling areas, including Livingston County and Washtenaw County

Priorities for Parks & Recreation Facility Investments in the Huron-Clinton Metroparks Service Area

The Priority Investment Rating (PIR) was developed by ETC Institute to provide organizations with an objective tool for evaluating the priority that should be placed on Parks and Recreation investments. The Priority Investment Rating (PIR) equally weighs:

- the importance that households place on each facility/ amenity/ activity/program
- how many households have unmet needs for the facility/

Facility	Priority Investment Rating (PIR)
<i>Trails-paved, multi-use (walking, biking)</i>	189.2
<i>Beaches</i>	174.7
<i>Natural areas</i>	145.7
<i>Trails-unpaved, nature trails</i>	139.7
<i>Trails-unpaved, hiking</i>	137.2
<i>Nature centers</i>	114.2
<i>Canoe/kayak launch sites</i>	110.2
<i>Outdoor swimming pools</i>	107.9

Results

Wayne County (Outside of Detroit)

The table below shows the Priority Investment Ratings (PIR) for parks and recreation facilities, based on the PIR analysis conducted using the data from Wayne County (outside of Detroit) households. The following eight facilities were rated as high priorities for investment:

- Beaches
- Picnic shelters
- Paved multi-use trails for walking and biking
- Playgrounds
- Natural areas
- Picnic tables
- Outdoor swimming pools
- Nature centers

Facility	PIR	Priority
Beaches	195.3	High Priority (PIR=100-200)
Picnic shelters	176.4	
Trails-paved, multi-use (walking, biking)	165.2	
Playgrounds	150.8	
Natural areas	147.2	
Picnic tables	144.1	
Outdoor swimming pools	132.0	
Nature centers	121.8	
Trails-unpaved, nature trails	107.4	Medium Priority (PIR=50-99)
Fishing banks or docks	94.6	
Trails-unpaved, hiking	90.2	
Splash pad (water play area)	85.4	
Canoe/kayak rentals	79.9	
Waterslides	77.3	
Canoe/kayak launch sites	76.3	
Camping areas-group sites	61.2	
Trails-mountain biking	52.8	Low Priority (PIR=0-49)
Camping areas-primitive sites	49.2	
Camping areas-RVs	42.6	
Golf driving ranges	42.0	
Golf courses	36.7	
Boat ramps	36.3	
Boat docks	33.8	
Disc golf	25.2	
Marinas	22.6	

The table below shows the Priority Investment Ratings (PIR) for parks and recreation programs, based on the PIR analysis conducted using the data from Wayne County (outside of Detroit) households. The following 16 programs were rated as high priorities for investment:

- Concerts
- Art/photography
- Movies in the park
- Swim lessons
- Walking clubs/programs
- Water fitness programs
- Pet-friendly programs
- Environmental education programs
- Camping
- Programs for people with disabilities
- Astronomy programs
- Bird-wildlife watching programs
- Guided nature hikes
- Fishing programs
- Natural/cultural history programs
- Guided canoe/kayak tours

Program	PIR	Priority
Concerts	194.4	High Priority (PIR=100-200)
Art/photography	175.1	
Movies in the park	173.9	
Swim lessons	166.8	
Walking clubs/programs	164.6	
Water fitness programs	162.6	
Pet-friendly programs	150.9	
Environmental education programs	132.9	
Camping	129.0	Medium Priority (PIR=50-99)
Programs for people with disabilities	126.7	
Astronomy programs	126.2	
Bird/wildlife watching programs	125.0	
Guided nature hikes	121.7	
Fishing programs	114.2	
Natural/cultural history programs	108.7	
Guided canoe/kayak tours	105.5	
Farm educational programs	98.0	Low Priority (PIR=0-49)
Golf lessons	83.6	
Boating classes	80.6	
Guided motorized boat tours	70.3	
Homeschool programs	59.1	
Running clubs/programs	50.0	
Virtual programs	35.3	
Scouting	31.8	
Golf tournaments	29.9	

Action Plan

Needs & Opportunities

Based on the assessment of park conditions, demographic research and spatial analysis, public input, and staff input, the needs and opportunities listed throughout this document were developed.

Needs

- Continue to draw diverse range of visitors to the parks
- Define and protect areas with important biodiversity features
- Better educate the importance of preserving important cultural features
- Address aging and overbuilt infrastructure
- Identify areas of facility duplication for repurposing and consolidation
- Work with county and local communities to address any boundary issues for both parks
- Replace outdated, confusing, inconsistent signs
- Pursue improvements to park accessibility
- Diversify sources of revenue
- Target market strategies for facilities (Nature Center, pool facility)
- Increase revenue and visitation
- Address changing needs of new population demographics
- Improve connectivity within the parks and with the community
- Incorporate variety of opinions and user groups into master plan
- Maintenance of facilities for successful operations



Opportunities

- Build on both parks character to attract new visitors
- Create a resilient network of biodiverse areas in the parks
- Draw new visitors with programming/education based on history of the parks
- Redevelop park areas to better serve visitors and environment
- Provide unique recreational facilities to draw visitors from across the region
- Create good working relationship with neighbors and partner organizations
- Create consistent, convenient wayfinding system to give visitors confidence
- Ensure that users of all abilities feel empowered to take full advantage of the parks
- Offer new and exciting activities/programs to visitors of the parks to both boost tolling and gather user fees
- Take advantage of proximity to urban population to grow revenue and system awareness
- Build on enthusiasm of Willow-Oakwoods visitors with exciting, engaging programs and events
- Draw new users with a connected, accessible, welcoming and safe park environment
- Create good working relationship with surrounding municipalities
- Maintenance plans and scheduling for facilities (hike-bike trails)
- Create vibrant park through robust, transparent public outreach



With these in mind, the following list of projects, plans, and studies was developed. Major and minor projects have been identified as priorities and assigned a timeline, and the accompanying studies have been listed. These pages should serve as a blueprint for the future of the parks over the next ten years.

Large Facilities

Park*	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Develop Willow Pool selective redevelopment strategy	Eng	Plan, Ops, Maint	Foundation, Contractors	TBD		x	x	Not started
Wil	Implement Washago Pond selective redevelopment strategy	Eng	Plan, Ops, Maint, Int	Foundation, Contractors	TBD	x	x	x	Ongoing
Wil	Golf Course: replace irrigation lines, underground fuel storage (UST) with above-	Eng	Ops, Maint	Contractors	\$2,000,000	x	x	x	Ongoing
Oak	Develop playground at the Nature Center	Plan	Ops, Maint, Int	Foundation, Contractors	\$80,000		x	x	Not started



*Abbreviation for both parks (Wil = Willow, Oak = Oakwoods) ** Abbreviation for departments (Eng = Engineering, Plan = Planning, Int = Interpretive Services, Ops = Operations, Maint = Maintenance, NR = Natural Resources, Mrkt = Marketing CR = Community Relations)

Infrastructure / Small Facilities

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Accessibility improvements, including interiors, walkways, and	Eng	Plan, Ops	Contractors	TBD	x	x	x	Ongoing
Both	Paving projects: main park roads, parking lot overlays as needed	Eng	Ops, Maint	Contractors	TBD	x	x	x	Ongoing
Both	Implement infrastructure reduction strategy throughout parks	Eng	Ops, Plan, Maint	Contractors	TBD	x			Parkwide system, Not started
Oak	Drainage improvements at Sky-Come-down nature trail	Eng	Ops, Maint, Int		TBD		x		Not started
Wil	Replace Willow Pool playground	Plan	Eng, Ops, Maint	Contractors	TBD			x	Not started
Wil	Hike-bike trail connectivity improvements throughout park	Eng	Plan, Ops, Maint	Contractors	TBD		x	x	Not started
Wil	Create rustic hiking trail system utilizing cross-country ski trail routes	Ops, Maint	Plan, NR	staff time	TBD		x		Not included on park maps
Wil	Partially relocate disc golf course to Acorn Knoll picnic area	Ops, Maint	Plan, NR	staff time	TBD	x			Winter 2022-2023

Natural Resources

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Fisheries Assessment and creel survey	NR		MDNR	\$25,000	x	x	x	Ongoing
Both	Vegetation Management (annual)	NR	Plan, Ops		\$30,000	x	x	x	Ongoing
Both	Hazardous Waste Removal (annual)	NR			\$1,000	x	x	x	Ongoing
Both	Early detection, rapid response. Invasive species surveys and control in high quality natural areas (annual)	NR	Int	NGOs	\$10,000	x	x	x	Ongoing
Both	Herpetological assessment of the park	NR		Consultant	\$9,000	x	x	x	Ongoing
Both	Utility Corridor Greenspace Improvements	NR	Int, Ops, Plan	TNC, Utilities	\$25,000	x	x	x	Ongoing
Both	Conduct Prescribed fire in adapted native communities	NR			\$15,000	x	x	x	Ongoing
Both	Oak wilt monitoring and prevention (annual)	NR	Ops	MDNR	varies	x	x	x	Ongoing
Both	Deer cull to maintain deer based on BMP standards	NR	Police		varies	x	x	x	Ongoing
Both	Shoreline Erosion Survey and Planning	NR			\$10,000	x			In construction
Both	Shoreline Stabilization and	NR		Contractor	\$50,000	x			In the works
Both	Comprehensive wildlife surveys and mapping (Birds, insects, freshwater mussels)	NR	Int	MNFI, Consultant, HRWC	\$35,000	x		x	Ongoing

Natural Resources

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Green Infrastructure Improvements	NR	Plan, Eng		\$100,000	x	x	x	Ongoing
Wil	Indian Ridge Prairie Restoration	NR	Plan, Int	TNC	\$50,000	x	x	x	Ongoing
Wil	Washago Pond management	NR	Ops	Contractor	\$3,000	x	x	x	Ongoing
Wil	Willow Floodplain Restoration	NR	Plan, Eng		\$55,000	x	x		Ongoing
Oak	Cedar Knoll Prairie Extension	NR	Plan, Int	TNC	\$100,000		x	x	Not started
Oak	Oxbow/Railroad Floodplain Forest Restoration	NR	Plan	TNC	\$55,000	x	x		Ongoing
Oak	Grasslands Restoration	NR	Plan, Int	TNC	\$500,000	x	x	x	Ongoing
Oak	Butterfly Trail Grassland Improvements	NR	Int, Plan	TNC	\$50,000	x	x	x	Ongoing



Signage

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Rustic trails wayfinding signage	Planning	Ops, Maint, Int		TBD		x		Not started
Both	Construct and install trailhead structures on hike-bike trail	Maint	Graphics, Plan, Ops		\$ 4,500				Complete
Both	New Branding	Marketing,	Planning, Operations, Interpretive		TBD	x	x	x	Ongoing



Area Plans/Studies/Initiatives

After identifying the need for changes or improvements based on user feedback and staff research, in-depth evaluation and planning must be carried out to gain a detailed understanding of problems and opportunities and determine the best strategies based on existing conditions and resources. Sometimes a process to formally monitor facility usage and gauge popularity is necessary. These studies often result in a scope of work, a work plan, and in some cases a site plan that give staff a roadmap for planned changes. Recommended studies are listed below:

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Willow Pool selective redevelopment strategy: reduce building and parking size, add small shelters and seating around pool, evaluate egress, incorporate employee meeting space, food truck space	Plan	Eng, Ops, Maint	Consultants	staff time	x	x		Not started
Both	Infrastructure reduction strategy: Reduce, eliminate, and/or reconfigure certain parking areas, roadways, small structures throughout parks	Plan	Eng, Ops, Maint, NR		staff time	x			Not started
Wil	Washago stream restoration/ use master plan	NR	Eng, Ops, Plan, Int		staff time	x			Not started
Oak	Cedar Knoll parking and river access strategy: realign west parking lot closer to the river, develop formal canoe/kayak launch, replace pit toilets	Plan	Eng, Ops, Maint, NR		staff time	x			Initial study
Both	Explore opportunities for aligned entrances for both parks	Plan	Eng, Ops		staff time			x	Not started
Oak	Nature Center playground concept plan, possibly include small rental shelter	Plan	Eng, Ops, Maint, Int		staff time		x		Not started
Oak	Nature Center interpretive exhibit plan	Int	Maint, Eng	Consultants	\$ 160,000				Complete

Area Plans/Studies/Initiatives (cont'd)

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Oak	Clear north side service drive access/ add gate from Huron River	NR	Ops, Maint		staff time	x			Not started
Both	Sustainability initiatives	NR	Ops, Plan, Eng		\$18,000	x	x	x	Climate Action
Both	Establish Invasive Species Control Tracking Website	NR	IT	MNFI, MISIN	\$15,000	x	x	x	Ongoing
Both	Stormwater monitoring	NR			\$5,000	x	x	x	Ongoing
Both	Review all proposed earthwork activities for potential impact on	NR	Int, Plan, Eng	SHPO, EMU	staff time	x	x	x	Ongoing
Both	Work with partners to record, protect and preserve artifacts and document sites when deemed necessary following investigation	NR	Plan, Ops, Int	EMU	staff time	x	x	x	Ongoing
Both	Implement Climate Action Plan	Plan	Ops, Maint		TBD	x	x	x	Ongoing
Both	Comprehensive kayak access study	Plan	Ops, Maint		staff time	x	x		Not started
Both	Implement Programming Plan	Plan	Ops, Maint		TBD	x	x	x	Ongoing
Oak	Hydrological study post dam removals (Huroc and Flat Rock	Eng	Plan		TBD		x		Not started
Both	Explore opportunities for fishing access points	Plan	NR, Ops, Maint		staff time	x	x	x	Ongoing
Wil	Explore mountain bike facility plan	Plan			staff time	x	x		Not started
Both	Strategize streambank erosion along Huron River	Plan	NR, Ops, Maint	HRWC	staff time	x	x	x	Ongoing

OAKWOODS METROPARK MASTER PLAN



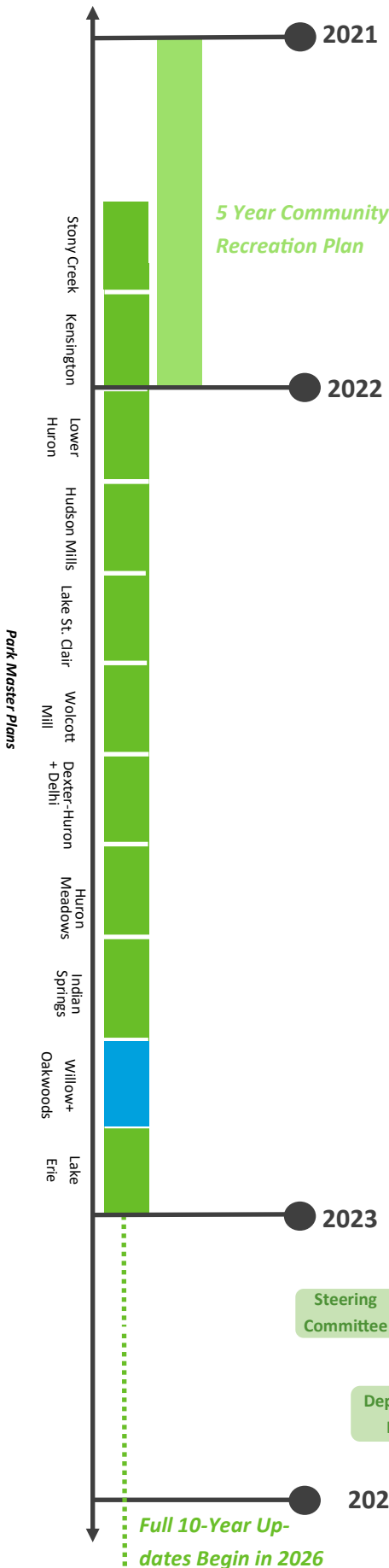
5 Year Update to 2018 - 2028

DRAFT



Introduction

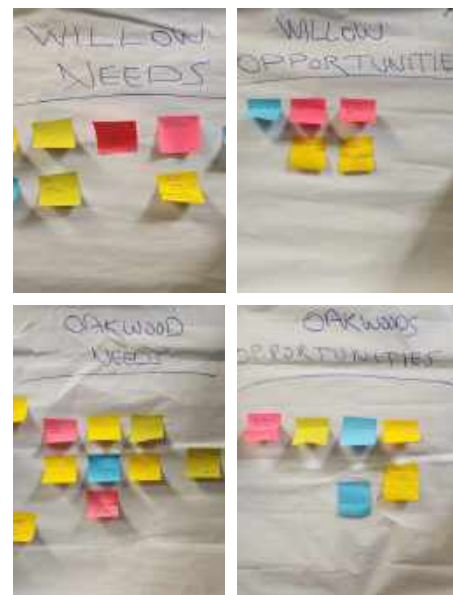
Planning Process



The five-year update is an opportunity for each of the 13 Metroparks to review their master plan and make sure it is still relevant. This review includes 1) major changes to facilities, infrastructure and programming in the park; 2) updated needs and opportunities; 3) completed action items; and 4) any new actions necessary to implement the goals and policies for the park. One of the most important components is the public input collected through meetings, questionnaires, and online comments, all of which influence plan recommendations. A master plan steering committee was formed to include park employees with exceptional knowledge of Willow and Oakwoods and surrounding community who, along with the experienced Metroparks administrative department heads provided their professional opinions.

The Planning and Development Department also included updates to the demographic and spatial data to inform recommendations. Demographic data looks at the density, age, income, language, and other factors of the regional population. Spatial data, usually analyzed through Geographic Information System (GIS) software, looks at the physical location of the parks in relation to other recreation opportunities, transportation facilities, population centers, important natural resources, and more. Finally, the planning staff conducted a review of park conditions to identify areas needing improvement and areas experiencing success.

The master plans are intended to be living documents, modified as needed to reflect changing conditions in the parks with this review every five years. However, they focus on park developments over ten years, and will be updated through a more comprehensive planning process at the end of the planning horizon.



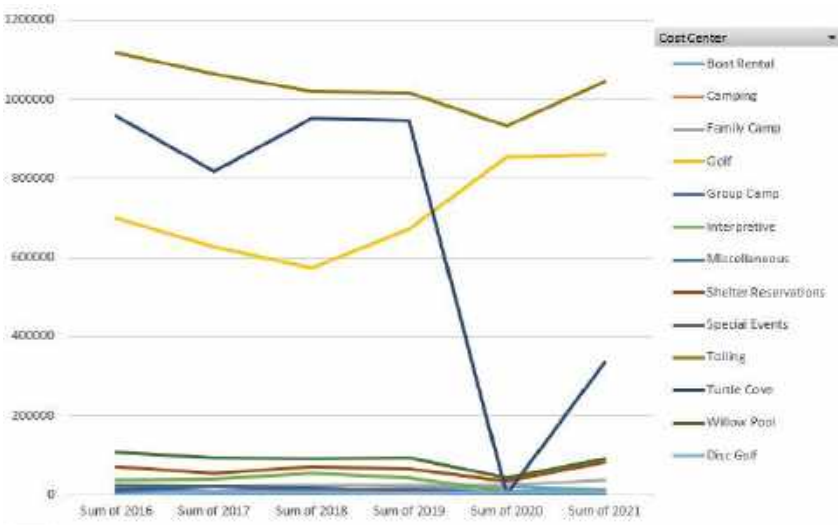
The Steering Committee met on 09/14/2022

Revenue Sources

2021 Operations Revenue

Revenue Source	2021 Total*	% of 2021 Revenue
Turtle Cove	333,740.53	13.4%
Tolling	1,046,057.00	42.1%
Shelter Reservations	82,565.76	3.3%
Camping	40,432.80	1.6%
Special Events	6,444.00	0.3%
Miscellaneous	1,590.90	0.1%
Golf	858,660.57	34.5%
Disc Golf	6,395.00	0.3%
Interpretive	9,563.85	0.4%
Willow Pool	89,125.41	3.6%
Boat Rental– Washago	10,952.58	0.4%
	\$2,485,528.00	100%

*2021 Operations Revenue was irregular due to the COVID pandemic.



REVENUE TRENDS 2016-2021— Lower Huron, Willow, and Oakwoods

NEEDS

Diversify sources of revenue

Offer new and exciting activities/ programs to visitors to both boost tolling and gather user fees

OPPORTUNITIES

The Metroparks 2021 General Fund revenue equaled \$59,729,968. Lower Huron’s 2021 operations revenue was approximately \$2,485,528, comprising 4.2% of all Metroparks revenue.

The budgeted 2022 operations revenues for Lower Huron, Willow, and Oakwoods is \$3,083,260, while estimated 2022 operations expenses are \$6,791,291. These parks are combined in the budgeting process since they are administered together. Property tax and other revenue will subsidize 54.6% (\$3,708,031) of the three parks’ operating budget.

As the chart illustrates, nearly all of Lower Huron’s operations revenue comes from the Turtle Cove Family Aquatic Center and from park entrance tolling.

Revenue

Visitors

Willow and Oakwoods Metropark are regional parks and can draw from the approximately 3,008,000 Michigan residents that live within a 30 mile radius (approximately a 45-minute drive) of them. Certain events and activities may draw visitors from greater distances.

Vehicle entries are combined for Lower Huron, Willow, and Oakwoods Metroparks, and have hovered between 260,000 and 425,000 since 2014, slightly declining over the years but overall moderately stable. Weather often plays a role in attendance to the park; activity areas greatly affected by weather are the trails, Nature Center, golf course and the Willow Pool.

Consolidation of statistical information is needed to better assess vehicle entries, park users, event attendance, event participants and activity participation within the park. This information will help with marketing of events, activities and future analysis of the park.



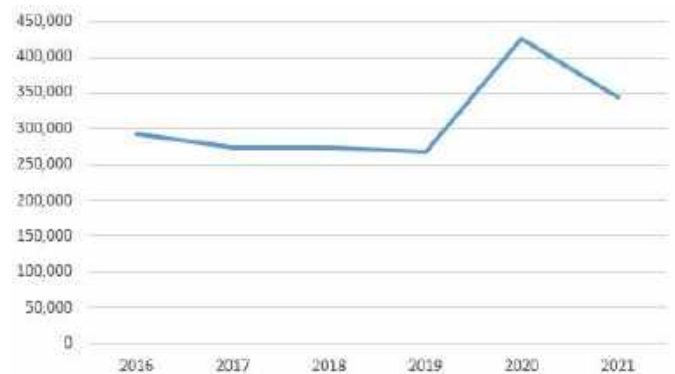
NEEDS

Target market strategy

Take advantage of proximity to urban population to grow revenue and system awareness

OPPORTUNITIES

VEHICLE ENTRIES 2016-2021



Willow and Oakwoods Metroparks 30-Mile radius



Programs & Events



NEEDS

Increase revenue and visitation

Build on enthusiasm of Willow and Oakwoods visitors with exciting, engaging programs and events

OPPORTUNITIES

2022 Integrated Marketing Plan

Educational and public programs looked much different than “average” in 2020. Staff adjusted to ever-changing situations of the pandemic to continue serving visitors on multiple platforms using virtual and hybrid programs, as well as small-group, in person, outdoor programs. These new practices will carry over into 2022 and staff will continue working collaboratively to provide exciting new experiences for the Lower Huron communities in ways that are safe and engaging.

2020-2022 Recreation Programming Plan

In 2022, the Metroparks amended the 2020-2022 Community Recreation Plan to include a Recreation Programming Plan.

An important element of programming is accessibility and ensuring all programs, events, and services are compliant with the American Disability Act (ADA) requirements.

To achieve this, the Metroparks has begun self-evaluation of all programming and services offered by each department. Each program was categorized into groups of similar activities (e.g. programs, events, activities) and will then be analyzed each activity in terms of vision, hearing, and mobility barriers that may exist.



COMMUNITY INFLUENCES

Population

The percentage of households without access to an automobile is gradually rising in the region and in Wayne County. However, the municipalities directly surrounding Willow and Oakwoods show a modest trend downward in households without access to an automobile. The Metroparks were created at the time of the auto boom, when it was assumed that every family would have a car to take out to the countryside on the weekends. Since habits and lifestyles are changing, the Metroparks must look into innovative ways to provide access to the parks for all.

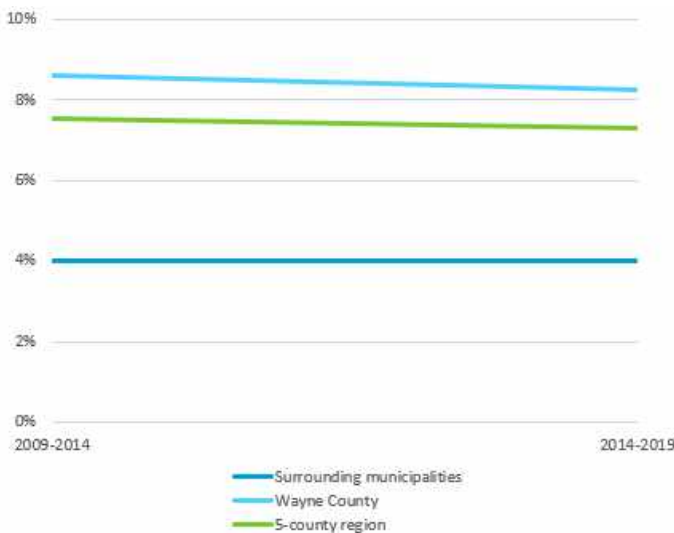
The percentage of individuals over 65 years of age is rising quickly in the region, in Wayne County, and most dramatically in communities surrounding the parks. Older adults have distinct needs, often requiring accommodations for mobility and accessibility of park features such as trails and buildings. This is important to keep in mind when planning the future of a park serving an older population.

NEEDS

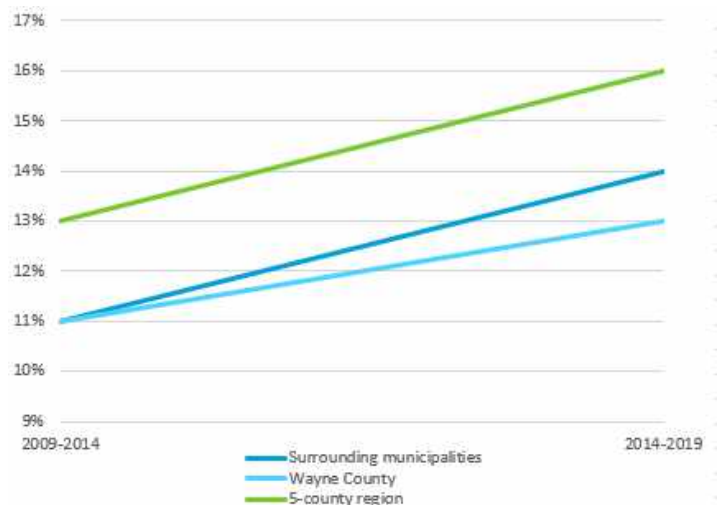
Address changing needs of new population demographics

Draw new users with a connected, accessible, welcoming and safe park environment

OPPORTUNITIES



CHANGE IN PERCENT OF HOUSEHOLDS WITH NO CARS AVAILABLE, 2009-2014 through 2014-19 (Source: US Census American Community Survey)



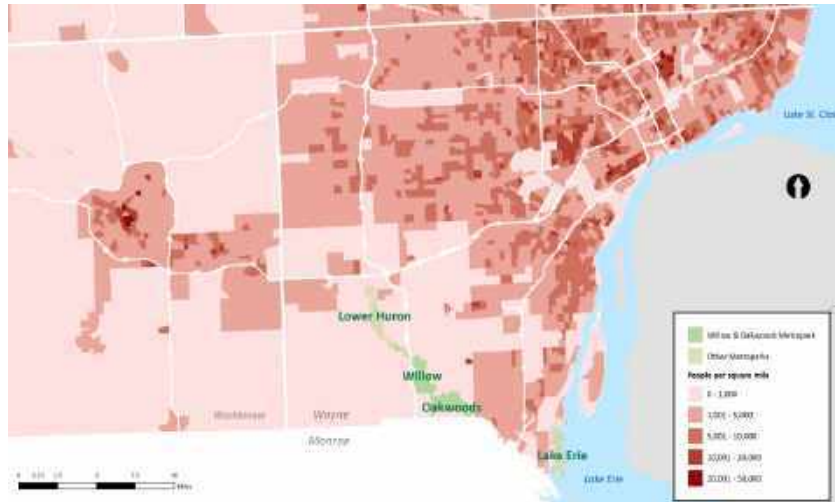
CHANGE IN PERCENT OF POPULATION OVER 65 YEARS, FROM 2009-14 through 2014-19 (Source: US Census American Community Survey)

Community Influences

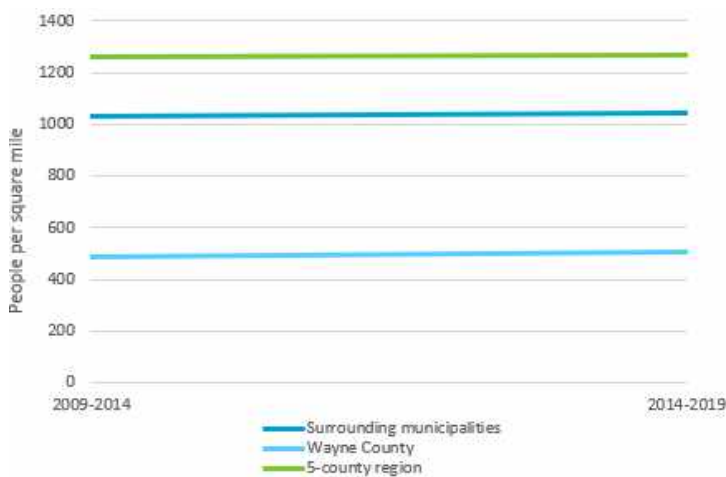
As shown below, Willow and Oakwoods are located in a lower residential density area than many other Metroparks, with the majority of land use characterized as residential. The areas directly bordering the park have an average population between 0 and 1,000 people per square mile. Associated with the noted demographic change will be the impact on housing trends. The aging baby boomers will seek different housing options than past generations of seniors. The desire will be for mixed use walkable environments with more compact smaller housing units, along with more time for passive recreational opportunities that will continue to increase in the surrounding communities.

The population density of the 5-county region, Wayne County, and surrounding municipalities is slightly decreasing overall. Staying aware of development changes in the area will be important to gauge recreation needs.

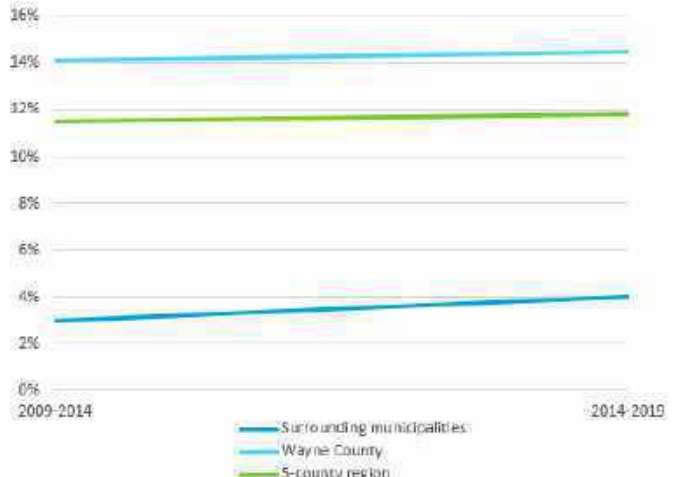
Although most households in the area still speak English as their first language, the communities around Willow and Oakwoods along with Wayne County and the region at large are seeing a slight increase in households speaking languages other than English at home. Because of this growing linguistic diversity the Metroparks are working towards more universal signage design, with a focus on easily understandable symbols.



POPULATION DENSITY BY BLOCK GROUP, 2012-16



CHANGE IN AVERAGE POPULATION DENSITY, 2009-14 through 2014-19
(Source: US Census American Community Survey)



CHANGE IN PERCENT OF HOUSEHOLDS SPEAKING LANGUAGE BESIDES ENGLISH AT HOME, 2009-14 through 2014-19 (Source: US Census American Community Survey)

NEEDS

Improve connectivity within the park and with the community

Create good working relationship with surrounding municipalities

OPPORTUNITIES

Understanding the goals and plans of municipalities and other organizations bordering and/or containing Willow and Oakwoods is essential for a collaborative, comprehensive planning process. Planning staff researched previous park plans along with the published master plans and recreation plans of surrounding municipalities, counties, other agencies. These provided a basic idea of the direction planned for each, especially regarding land use, development, and recreation.

Wyandot of Anderdon Nation, Six Points Master Plan

- The Six Points Village in nearby Gibraltar, Michigan project brings forward awareness of ecology, archeology, history, Indigenous issues, biodiversity and cultural anthropology.

Parks and Recreation Master Plan 2014-2018 Huron Charter Township

- Continued partnership with the various area public and private recreation providers. This includes collaborating and coordinating with the metroparks to provide for the efficient administration of parks and recreation services.

Detroit Heritage River Water Trail Vision Plan

- The Detroit Heritage River Water Trail goes through the Detroit, Huron, Rouge and Raisin Rivers and offers many opportunities for canoeing and kayaking in the region. The water trail follows the Huron River through Willow and Oakwoods with river access and a canoe/kayak launch.

New Boston Overall Improvements, 2015

The on-road non-motorized facility improvements in

Projects/Initiatives

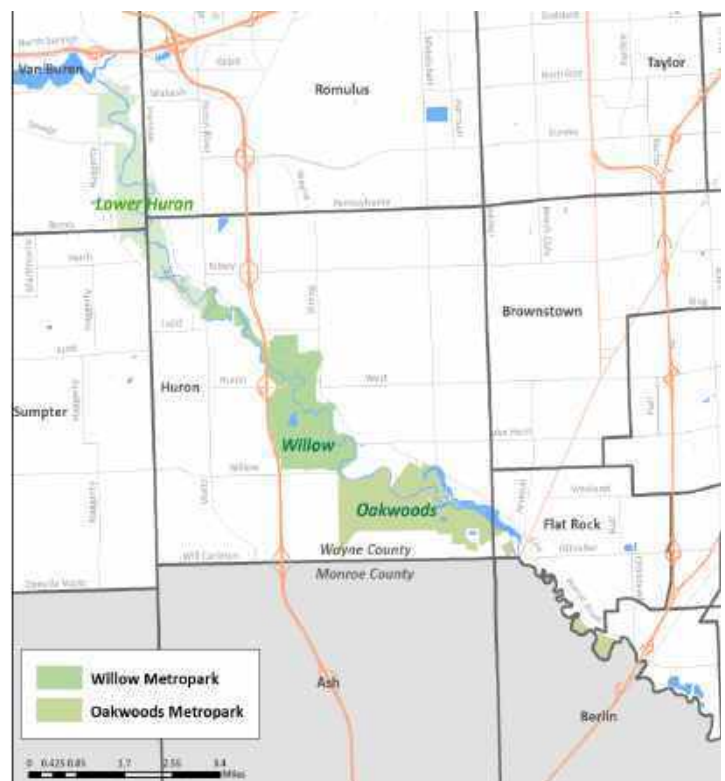
surrounding communities will fill in the gaps to achieve regional connectivity for non-motorized users. The metroparks will need to plan in collaboration for these improvements with potential water trail facilities and hike-bike trail connectors.

Downriver Linked Greenways Initiative (DLGI) Master Plan, 2009 Update

- Twenty-one (21) communities, along with many partners including Huron-Clinton Metroparks, stepped forward and began to map how various trail connections could be made, completed a master plan, and currently being implemented community wide.

Interpretive Plan for the Huron River National Water Trail, December 2017

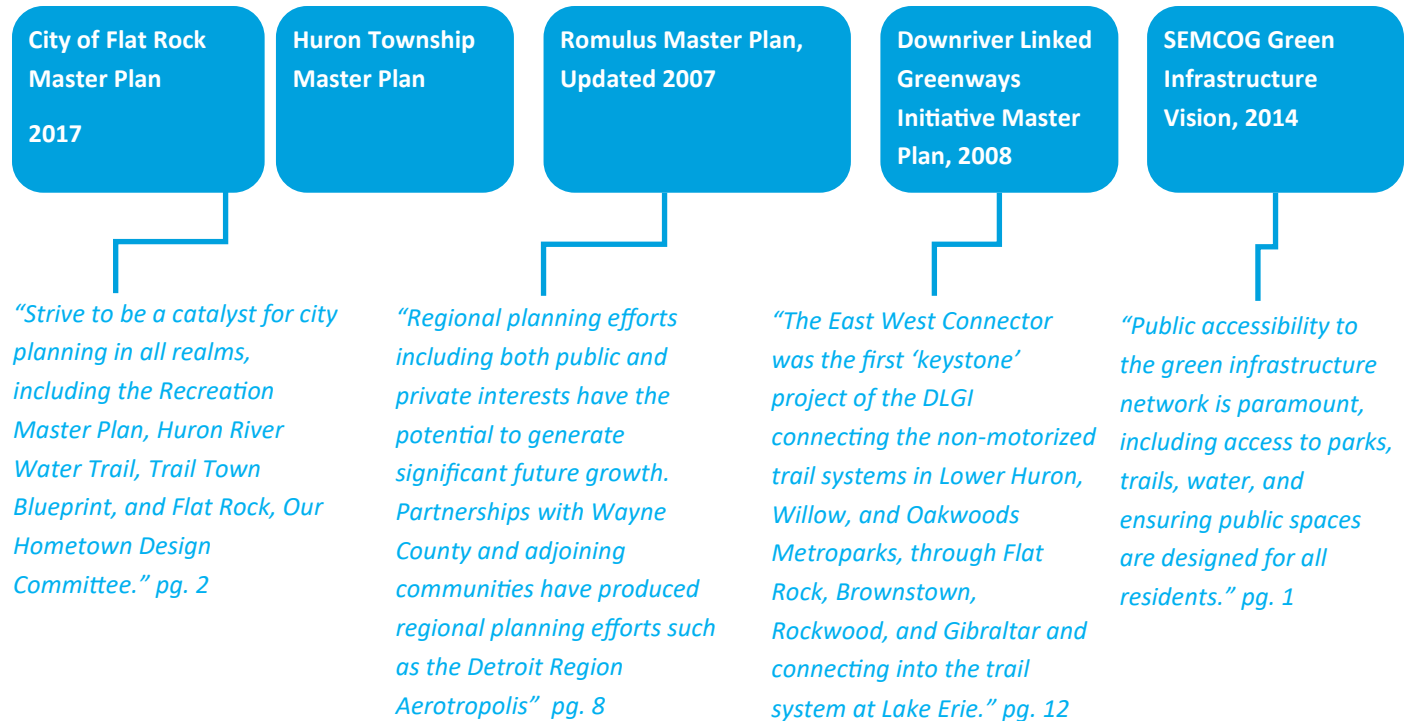
- The purpose of this plan is to help communities and stakeholders incorporate heritage on the lower reach of the nationally designated Huron River Water Trail, from Flat Rock to Lake Erie, which will create a more meaningful trail experience and a greater sense of place.



MUNICIPALITY MAP

Community Influences

Relevant Planning Documents



Since the development and land use decisions of bordering communities and other governmental agencies directly impact the park, these neighbor master plans were reviewed and taken into account when creating this document. The opinions and ideas expressed by residents and leaders in these municipalities give Willow and Oakwoods a wider context and in many cases underscore the importance of the park’s resources to citizens.

Willow and Oakwoods Metroparks are part of a broader system of recreation and green space that includes other Metroparks as well as local, county, and state parks and greenways. Due to this, recreation and green infrastructure plans were also considered in creating the Willow-Oakwoods Master Plan. Many communities are currently advancing their non-motorized networks, seeking grant funding to create greenways and paths, and cooperating to provide linked green and recreation spaces to their constituents.



PUBLIC INPUT

← Outreach Process

2022 Community Needs and Assessment

ETC Institute administered a needs assessment survey for Huron-Clinton Metroparks (HCMA) during the Spring of 2022. The survey was administered as part of Metroparks’ efforts to establish and priorities improvements to the parks system, which included 13 parks covering more than 25,000 acres in Wayne, Oakland, Macomb, Livingston and Washtenaw counties. The survey and its results will guide HCMA in taking a resident-driven approach to making decisions that will enrich the future of the community and positively affect the lives of all residents in southeast Michigan.

ETC Institute mailed a survey packet to a random sample of households in Livingston County, Macomb County, Oakland County, Washtenaw County, Wayne County (outside the City of Detroit), and the City of Detroit.

Location	Completed Surveys	% Precision
<i>Livingston County</i>	479	±4.5%
<i>Macomb County</i>	511	±4.3%
<i>Oakland County</i>	583	±4.1%
<i>Washtenaw County</i>	514	±4.3%
<i>Wayne County (Outside Detroit)</i>	407	±4.9%
<i>City of Detroit</i>	405	±4.9%
Total	2,899	±1.8%

The table above shows the number of completed surveys collected in each of the six sampling areas. The table also shows the margin of error at the 95% level of confidence for each area.

The results presented in this report have been weighted to represent each sampling area’s share of the population of the Huron-Clinton Metroparks service area. The weighted results give more weight to the responses from the larger sampling areas, including Macomb County, Oakland County, Wayne County (outside Detroit), and the City of Detroit, and similarly gives less weight to the responses of the smaller sampling areas, including Livingston County and Washtenaw County

Priorities for Parks & Recreation Facility Investments in the Huron-Clinton Metroparks Service Area

The Priority Investment Rating (PIR) was developed by ETC Institute to provide organizations with an objective tool for evaluating the priority that should be placed on Parks and Recreation investments. The Priority Investment Rating (PIR) equally weighs:

- the importance that households place on each facility/ amenity/ activity/program
- how many households have unmet needs for the facility/

Facility	Priority Investment Rating (PIR)
<i>Trails-paved, multi-use (walking, biking)</i>	189.2
<i>Beaches</i>	174.7
<i>Natural areas</i>	145.7
<i>Trails-unpaved, nature trails</i>	139.7
<i>Trails-unpaved, hiking</i>	137.2
<i>Nature centers</i>	114.2
<i>Canoe/kayak launch sites</i>	110.2
<i>Outdoor swimming pools</i>	107.9

Results

Wayne County (Outside of Detroit)

The table below shows the Priority Investment Ratings (PIR) for parks and recreation facilities, based on the PIR analysis conducted using the data from Wayne County (outside of Detroit) households. The following eight facilities were rated as high priorities for investment:

- Beaches
- Picnic shelters
- Paved multi-use trails for walking and biking
- Playgrounds
- Natural areas
- Picnic tables
- Outdoor swimming pools
- Nature centers

Facility	PIR	Priority
Beaches	195.3	High Priority (PIR=100-200)
Picnic shelters	176.4	
Trails-paved, multi-use (walking, biking)	165.2	
Playgrounds	150.8	
Natural areas	147.2	
Picnic tables	144.1	
Outdoor swimming pools	132.0	
Nature centers	121.8	
Trails-unpaved, nature trails	107.4	Medium Priority (PIR=50-99)
Fishing banks or docks	94.6	
Trails-unpaved, hiking	90.2	
Splash pad (water play area)	85.4	
Canoe/kayak rentals	79.9	
Waterslides	77.3	
Canoe/kayak launch sites	76.3	
Camping areas-group sites	61.2	
Trails-mountain biking	52.8	Low Priority (PIR=0-49)
Camping areas-primitive sites	49.2	
Camping areas-RVs	42.6	
Golf driving ranges	42.0	
Golf courses	36.7	
Boat ramps	36.3	
Boat docks	33.8	
Disc golf	25.2	
Marinas	22.6	

The table below shows the Priority Investment Ratings (PIR) for parks and recreation programs, based on the PIR analysis conducted using the data from Wayne County (outside of Detroit) households. The following 16 programs were rated as high priorities for investment:

- Concerts
- Art/photography
- Movies in the park
- Swim lessons
- Walking clubs/programs
- Water fitness programs
- Pet-friendly programs
- Environmental education programs
- Camping
- Programs for people with disabilities
- Astronomy programs
- Bird-wildlife watching programs
- Guided nature hikes
- Fishing programs
- Natural/cultural history programs
- Guided canoe/kayak tours

Program	PIR	Priority
Concerts	194.4	High Priority (PIR=100-200)
Art/photography	175.1	
Movies in the park	173.9	
Swim lessons	166.8	
Walking clubs/programs	164.6	
Water fitness programs	162.6	
Pet-friendly programs	150.9	
Environmental education programs	132.9	
Camping	129.0	Medium Priority (PIR=50-99)
Programs for people with disabilities	126.7	
Astronomy programs	126.2	
Bird/wildlife watching programs	125.0	
Guided nature hikes	121.7	
Fishing programs	114.2	
Natural/cultural history programs	108.7	
Guided canoe/kayak tours	105.5	
Farm educational programs	98.0	Low Priority (PIR=0-49)
Golf lessons	83.6	
Boating classes	80.6	
Guided motorized boat tours	70.3	
Homeschool programs	59.1	
Running clubs/programs	50.0	
Virtual programs	35.3	
Scouting	31.8	
Golf tournaments	29.9	

Action Plan

Needs & Opportunities

Based on the assessment of park conditions, demographic research and spatial analysis, public input, and staff input, the needs and opportunities listed throughout this document were developed. [5-year updates are in blue text](#)

Needs

- Continue to draw diverse range of visitors to the parks
- Define and protect areas with important biodiversity features
- Better educate the importance of preserving important cultural features
- Address aging and overbuilt infrastructure
- Identify areas of facility duplication for repurposing and consolidation
- Work with county and local communities to address any boundary issues for both parks
- Replace outdated, confusing, inconsistent signs
- Pursue improvements to park accessibility
- Diversify sources of revenue
- Target market strategies for facilities (Nature Center, pool facility)
- Increase revenue and visitation
- Address changing needs of new population demographics
- Improve connectivity within the parks and with the community
- Incorporate variety of opinions and user groups into master plan
- Maintenance of facilities for successful operations



Opportunities

- Build on both parks character to attract new visitors
- Create a resilient network of biodiverse areas in the parks
- Draw new visitors with programming/education based on history of the parks
- Redevelop park areas to better serve visitors and environment
- Provide unique recreational facilities to draw visitors from across the region
- Create good working relationship with neighbors and partner organizations
- Create consistent, convenient wayfinding system to give visitors confidence
- Ensure that users of all abilities feel empowered to take full advantage of the parks
- Offer new and exciting activities/programs to visitors of the parks to both boost tolling and gather user fees
- Take advantage of proximity to urban population to grow revenue and system awareness
- Build on enthusiasm of Willow-Oakwoods visitors with exciting, engaging programs and events
- Draw new users with a connected, accessible, welcoming and safe park environment
- Create good working relationship with surrounding municipalities
- Maintenance plans and scheduling for facilities (hike-bike trails)
- Create vibrant park through robust, transparent public outreach



With these in mind, the following list of projects, plans, and studies was developed. Major and minor projects have been identified as priorities and assigned a timeline, and the accompanying studies have been listed. These pages should serve as a blueprint for the future of the parks over the next ten years.

Large Facilities

Park*	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Develop Willow Pool selective redevelopment strategy	Eng	Plan, Ops, Maint	Foundation, Contractors	TBD		x	x	Not started
Wil	Implement Washago Pond selective redevelopment strategy	Eng	Plan, Ops, Maint, Int	Foundation, Contractors	TBD	x	x	x	Ongoing
Wil	Golf Course: replace irrigation lines, underground fuel storage (UST) with above-ground (AST)	Eng	Ops, Maint	Contractors	\$2,000,000	x	x	x	Ongoing
Oak	Develop playground at the Nature Center	Plan	Ops, Maint, Int	Foundation, Contractors	\$80,000		x	x	Not started



*Abbreviation for both parks (Wil = Willow, Oak = Oakwoods) ** Abbreviation for departments (Eng = Engineering, Plan = Planning, Int = Interpretive Services, Ops = Operations, Maint = Maintenance, NR = Natural Resources, Mrkt = Marketing CR = Community Relations)

Infrastructure / Small Facilities

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Accessibility improvements, including interiors, walkways, and site amenities - parkwide	Eng	Plan, Ops	Contractors	TBD	x	x	x	Ongoing
Both	Paving projects: main park roads, parking lot overlays as needed	Eng	Ops, Maint	Contractors	TBD	x	x	x	Ongoing
Both	Implement infrastructure reduction strategy throughout parks	Eng	Ops, Plan, Maint	Contractors	TBD	x			Parkwide system, Not started
Oak	Drainage improvements at Sky-Come-down nature trail	Eng	Ops, Maint, Int		TBD		x		Not started
Wil	Replace Willow Pool playground	Plan	Eng, Ops, Maint	Contractors	TBD			x	Not started
Wil	Hike-bike trail connectivity improvements throughout park	Eng	Plan, Ops, Maint	Contractors	TBD		x	x	Not started
Wil	Create rustic hiking trail system utilizing cross-country ski trail routes	Ops, Maint	Plan, NR	staff time	TBD		x		Not included on park maps
Wil	Partially relocate disc golf course to Acorn Knoll picnic area	Ops, Maint	Plan, NR	staff time	TBD	x			Winter 2022-2023

Natural Resources

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Both	Fisheries Assessment and creel survey	NR		MDNR	\$25,000	x	x	x	Ongoing
Both	Vegetation Management (annual)	NR	Plan, Ops		\$30,000	x	x	x	Ongoing
Both	Hazardous Waste Removal (annual)	NR			\$1,000	x	x	x	Ongoing
Both	Early detection, rapid response. Invasive species surveys and control in high quality natural areas (annual)	NR	Int	NGOs	\$10,000	x	x	x	Ongoing
Both	Herpetological assessment of the park	NR		Consultant	\$9,000	x	x	x	Ongoing
Both	Utility Corridor Greenspace Improvements	NR	Int, Ops, Plan	TNC, Utilities	\$25,000	x	x	x	Ongoing
Both	Conduct Prescribed fire in adapted native communities	NR			\$15,000	x	x	x	Ongoing
Both	Oak wilt monitoring and prevention (annual)	NR	Ops	MDNR	varies	x	x	x	Ongoing
Both	Deer cull to maintain deer based on BMP standards	NR	Police		varies	x	x	x	Ongoing
Both	Shoreline Erosion Survey and Planning	NR			\$10,000	x			In construction
Both	Shoreline Stablization and Improvements	NR		Contractor	\$50,000	x			In the works
Both	Comprehensive wildlife surveys and mapping (Birds, insects, freshwater mussels)	NR	Int	MNFI, Consultant, HRWC	\$35,000	x		x	Ongoing

Natural Resources

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Green Infrastructure Improvements	NR	Plan, Eng		\$100,000	x	x	x	Ongoing
Wil	Indian Ridge Prairie Restoration	NR	Plan, Int	TNC	\$50,000	x	x	x	Ongoing
Wil	Washago Pond management (annual)	NR	Ops	Contractor	\$3,000	x	x	x	Ongoing
Wil	Willow Floodplain Restoration	NR	Plan, Eng		\$55,000	x	x		Ongoing
Oak	Cedar Knoll Prairie Extension	NR	Plan, Int	TNC	\$100,000		x	x	Not started
Oak	Oxbow/Railroad Floodplain Forest Restoration	NR	Plan	TNC	\$55,000	x	x		Ongoing
Oak	Grasslands Restoration	NR	Plan, Int	TNC	\$500,000	x	x	x	Ongoing
Oak	Butterfly Trail Grassland Improvements	NR	Int, Plan	TNC	\$50,000	x	x	x	Ongoing



Signage

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Rustic trails wayfinding signage	Planning	Ops, Maint, Int		TBD		x		Not started
Both	Construct and install trailhead structures on hike-bike trail	Maint	Graphics, Plan, Ops		\$ 4,500				Complete
Both	New Branding	Marketing,	Planning, Operations, Interpretive		TBD	x	x	x	Ongoing



Area Plans/Studies/Initiatives

After identifying the need for changes or improvements based on user feedback and staff research, in-depth evaluation and planning must be carried out to gain a detailed understanding of problems and opportunities and determine the best strategies based on existing conditions and resources. Sometimes a process to formally monitor facility usage and gauge popularity is necessary. These studies often result in a scope of work, a work plan, and in some cases a site plan that give staff a roadmap for planned changes. Recommended studies are listed below:

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Wil	Willow Pool selective redevelopment strategy: reduce building and parking size, add small shelters and seating around pool, evaluate egress, incorporate employee meeting space, food truck space	Plan	Eng, Ops, Maint	Consultants	staff time	x	x		Not started
Both	Infrastructure reduction strategy: Reduce, eliminate, and/or reconfigure certain parking areas, roadways, small structures throughout parks	Plan	Eng, Ops, Maint, NR		staff time	x			Not started
Wil	Washago stream restoration/ use master plan	NR	Eng, Ops, Plan, Int		staff time	x			Not started
Oak	Cedar Knoll parking and river access strategy: realign west parking lot closer to the river, develop formal canoe/kayak launch, replace pit toilets	Plan	Eng, Ops, Maint, NR		staff time	x			Initial study
Both	Explore opportunities for aligned entrances for both parks	Plan	Eng, Ops		staff time			x	Not started
Oak	Nature Center playground concept plan, possibly include small rental shelter	Plan	Eng, Ops, Maint, Int		staff time		x		Not started
Oak	Nature Center interpretive exhibit plan	Int	Maint, Eng	Consultants	\$ 160,000				Complete

Action Plan

Area Plans/Studies/Initiatives (cont'd)

Park	Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Oak	Clear north side service drive access/ add gate from Huron River Drive	NR	Ops, Maint		staff time	x			Not started
Both	Sustainability initiatives	NR	Ops, Plan, Eng		\$18,000	x	x	x	Climate Action Plan
Both	Establish Invasive Species Control Tracking Website	NR	IT	MNFI, MISIN	\$15,000	x	x	x	Ongoing
Both	Stormwater monitoring	NR			\$5,000	x	x	x	Ongoing
Both	Review all proposed earthwork activities for potential impact on historic/cultural resources	NR	Int, Plan, Eng	SHPO, EMU	staff time	x	x	x	Ongoing
Both	Work with partners to record, protect and preserve artifacts and document sites when deemed necessary following investigation based on review	NR	Plan, Ops, Int	EMU	staff time	x	x	x	Ongoing
Both	Implement Climate Action Plan initiatives	Plan	Ops, Maint		TBD	x	x	x	Ongoing
Both	Comprehensive kayak access study	Plan	Ops, Maint		staff time	x	x		Not started
Both	Implement Programming Plan action items	Plan	Ops, Maint		TBD	x	x	x	Ongoing
Oak	Hydrological study post dam removals (Huroc and Flat Rock dams)	Eng	Plan		TBD		x		Not started
Both	Explore opportunities for fishing access points	Plan	NR, Ops, Maint		staff time	x	x	x	Ongoing
Wil	Explore mountain bike facility plan	Plan			staff time	x	x		Not started
Both	Strategize streambank erosion along Huron River	Plan	NR, Ops, Maint	HRWC	staff time	x	x	x	Ongoing

LAKE ERIE METROPARK MASTER PLAN



5 Year Update to 2018 - 2028

DRAFT



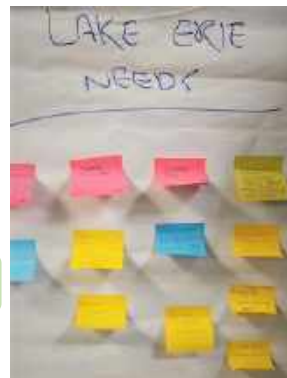
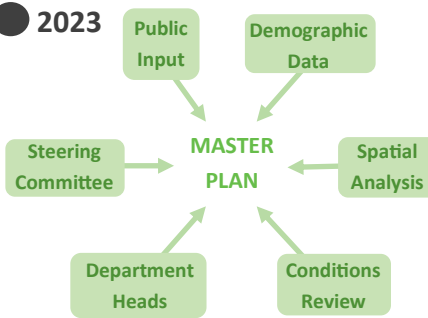
Introduction

Planning Process

The five-year update is an opportunity for each of the 13 Metroparks to review their master plan and make sure it is still relevant. This review includes 1) major changes to facilities, infrastructure and programming in the park; 2) updated needs and opportunities; 3) completed action items; and 4) any new actions necessary to implement the goals and policies for the park. One of the most important components is the public input collected through meetings, questionnaires, and online comments, all of which influence plan recommendations. A master plan steering committee was formed to include park employees with exceptional knowledge of Lake Erie and surrounding community who, along with the experienced Metroparks administrative department heads provided their professional opinions.

The Planning and Development Department also included updates to the demographic and spatial data to inform recommendations. Demographic data looks at the density, age, income, language, and other factors of the regional population. Spatial data, usually analyzed through Geographic Information System (GIS) software, looks at the physical location of the parks in relation to other recreation opportunities, transportation facilities, population centers, important natural resources, and more. Finally, the planning staff conducted a review of park conditions to identify areas needing improvement and areas experiencing success.

The master plans are intended to be living documents, modified as needed to reflect changing conditions in the parks with this review every five years. However, they focus on park developments over ten years, and will be updated through a more comprehensive planning process at the end of the planning horizon.



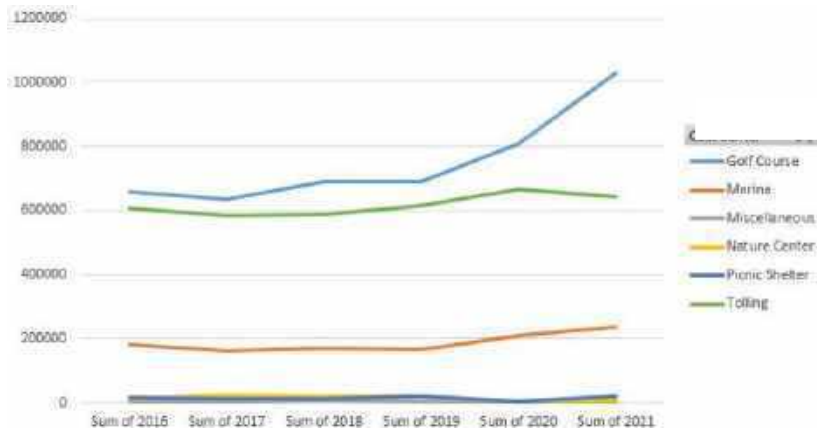
The Steering Committee met on 09/14/2022

REVENUE

Revenue Sources

2021 Operations Revenue

Revenue Source	2021 Total
Golf Course	1,027,355.83
Tolling	643,214.00
Marina	238,790.78
Picnic Shelter	19,454.13
Nature Center	6,720.95
Miscellaneous	4,698.06
Total	\$1,939,916



REVENUE TRENDS 2016-2021— Lake Erie

*2021 Operations Revenue was irregular due to the COVID pandemic.

2020 and 2021 operations revenue does not include the Great Wave Pool.



NEEDS

Diversify sources of revenue

Offer new and exciting activities/ programs to visitors to both boost tolling and gather user fees

OPPORTUNITIES

The Metroparks 2021 General Fund revenue equaled \$59,729,968. Lake Erie’s 2021 operations revenue was approximately \$1,939,916, comprising 3.2% of all Metroparks revenue.

Lake Erie budgeted 2022 operations revenues are \$1,711,935, while estimated 2022 operations expenses are \$4,018,612. Property tax and other revenue is estimated to subsidize 57.4% (\$2,306.677) of the Lake Erie operating budget.

Visitors

Lake Erie Metropark is a regional park and can draw from the approximately 4,200,000 Michigan residents that live within a 30 mile radius (approximately a 45-minute drive) of the park. Certain events and activities may draw visitors from greater distances.

Vehicle entries to Lake Erie Metropark have hovered between 155,728 and 237,000 since 2014, fluctuating through the years but experiencing a slight decline overall. Weather often plays a role in attendance to the park; activity areas greatly affected by weather are the trails, Marshlands Museum, golf course, and the Great Wave Pool. This may explain the dip in attendance visible in 2014.

Consolidation of statistical information is needed to better assess vehicle entries, park users, event attendance, event participants, and activity participation within the park. This information will help with marketing of events, activities, and future analysis of the park.

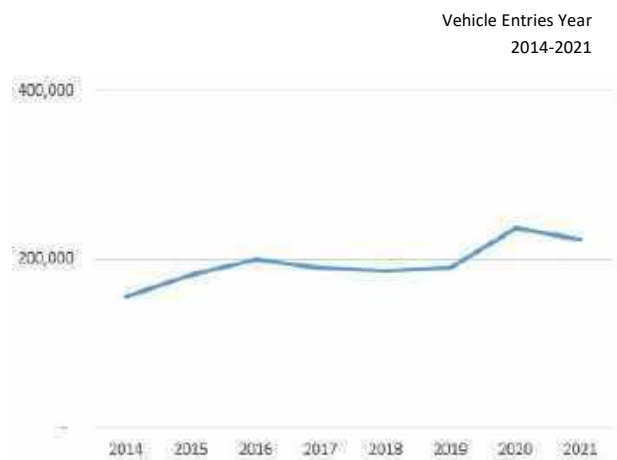


NEEDS

Target market strategy

Take advantage of proximity to urban population to grow revenue and system awareness

OPPORTUNITIES



Lake Erie Metropark 30-Mile radius



Programs & Events



Summer Discovery Cruise



Hawkfest



Day camps

NEEDS

Increase revenue and visitation

Build on enthusiasm of Lake Erie visitors with exciting, engaging programs and events

OPPORTUNITIES

Lake Erie hosts dozens of events each year, organized either by park staff or outside groups. Many of these are interpretive programs for both children and adults to explore the natural and cultural assets of the park. Some promote artistic enrichment, and others encourage physical activity or advocate for a cause. This designated “Important Bird Area” is one of the premier hawk-watching sites in North America highlighted by the annual Hawkfest. A series of popular events that offer a unique experience include the Summer Discovery Cruise and day camps for kids.

Recent events include:

- Marsh Meander
- Whitetail Wisdom
- Shoreline Clean-up
- They’re Back: Birding Adventure
- Snapping Turtle Tales
- Carve a Fish Decoy
- 21st Amendment: End Prohibition Festival
- Full Buck Moon Hike
- Marshlands Dragons
- Whooo’s There?
- Fish Camp
- Michigan Moth Night
- Lens Cap
- Coffee Club
- Lots of Lovely Lotus
- Full Sturgeon Moon Hike
- Talkin about Ospery
- Grandparents Day Make n Take
- BOO!! The History of Halloween
- Fairy Tales and Forecasting
- Hearts of Love
- Tundras and Snowies

COMMUNITY INFLUENCES

Population

The Metroparks were created during the auto boom when it was assumed that every family would have a car to take out to the countryside on the weekends. Since habits and lifestyles are changing, the Metroparks must look into innovative ways to provide access to the parks for all.

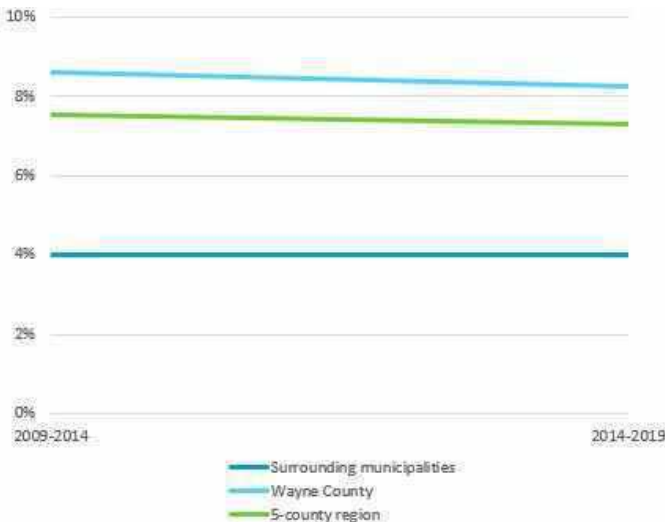
The percentage of individuals over 65 is rising quickly in the region, Wayne County, and most dramatically in communities surrounding the park. Older adults have distinct needs, often requiring accommodations for mobility and accessibility of park features such as trails and buildings. This is important to keep in mind when planning the future of a park serving an older population.

NEEDS

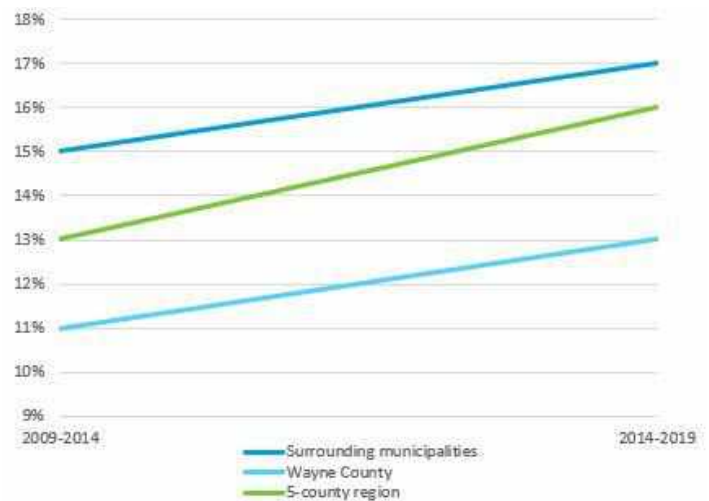
Address changing needs of new population demographics

Draw new users with a connected, accessible, welcoming and safe park environment

OPPORTUNITIES



CHANGE IN PERCENT OF HOUSEHOLDS WITH NO CARS AVAILABLE, 2009-14 through 2014-2019 (Source: US Census American Community Survey)



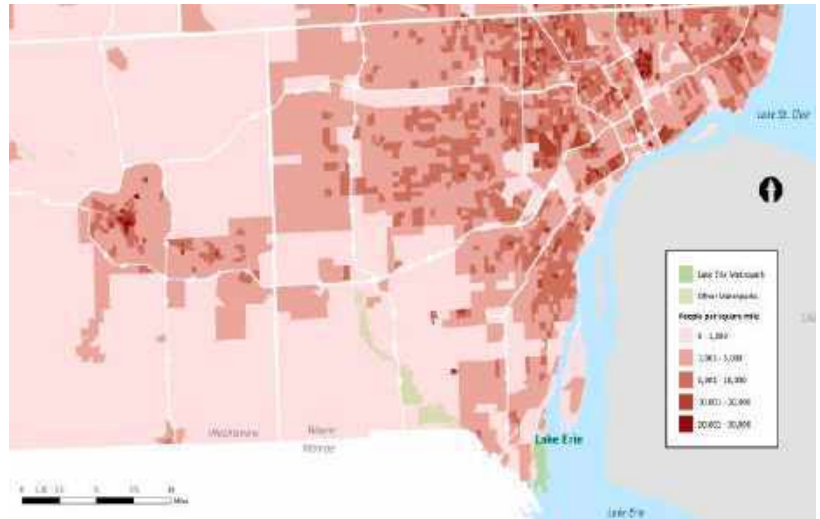
CHANGE IN PERCENT OF POPULATION OVER 65 YEARS, FROM 2009 –14 through 2014-2019 (Source: US Census American Community Survey)

Community Influences

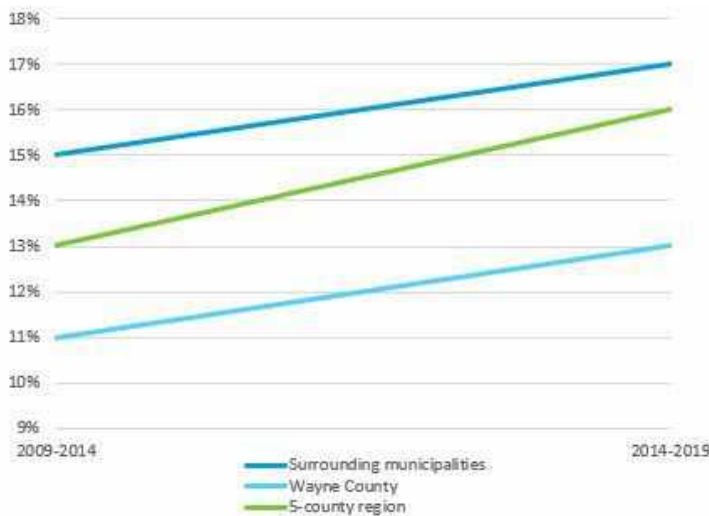
As shown below, Lake Erie is located in a lower residential density area than many other Metroparks, with the majority of land use characterized as single family residential. The areas directly bordering the park have an average population between 1,000 and 5,000 people per square mile. Associated with the noted demographic change will be the impact on housing trends. The aging baby boomers will seek different housing options than past generations of seniors. The desire will be for mixed use walkable environments with more compact smaller housing units, along with more time for passive recreational opportunities that will continue to increase in the surrounding communities.

The 5-county region, surrounding municipalities, and Wayne County has risen in population, creating an increased demand for recreation in

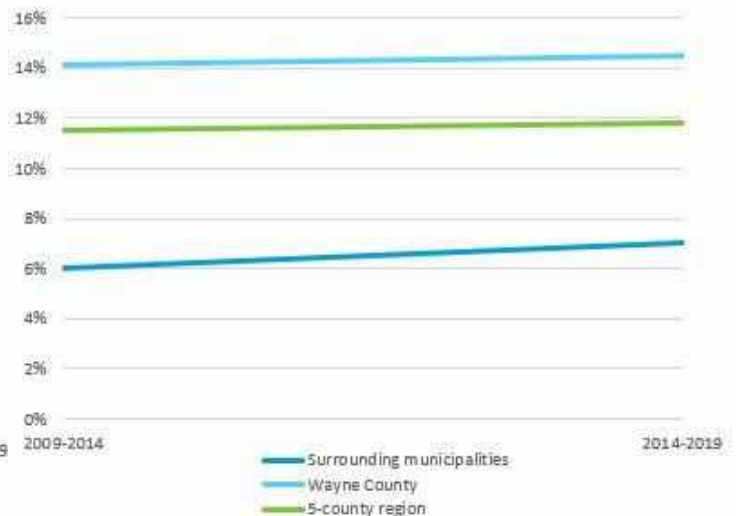
Although most households in the area still speak English as their first language, Wayne County and the region are seeing a slight increase in families speaking languages other than English at home. Because of this growing linguistic diversity, the Metroparks are working towards universal signage design, focusing on easily understandable symbols.



POPULATION DENSITY BY CENSUS TRACT, 2014– 2019



CHANGE IN AVERAGE POPULATION DENSITY, 2009-14 through 2014-19 (Source: US Census American Community Survey)



CHANGE IN PERCENT OF HOUSEHOLDS SPEAKING LANGUAGE BESIDES ENGLISH AT HOME, 2009-14 through 2014-2019 (Source: US Census American Community Survey)

NEEDS

Improve connectivity within the park and with the community

Create good working relationship with surrounding municipalities

OPPORTUNITIES

Understanding the goals and plans of municipalities bordering and/or containing Lake Erie is essential for a collaborative, comprehensive planning process. Planning staff researched the published master plans and recreation plans of surrounding municipalities, counties, and other agencies. These provided a basic idea of the direction planned for each, especially regarding land use, development, and recreation.

Parks and Recreation Master Plan 2014-2019 Gibraltar, Michigan

- Consider the waterfront access potential of any new development or redevelopment activities as integral to meeting community recreation needs and utilizing the City's prime natural and recreation resource.

Brownstown Township Master Plan, 2008

- The southern portion of Brownstown is predominantly residential, care must be taken to ensure compatibility between land uses, especially near West Jefferson Avenue, where neighborhood commercial uses are planned.

Downriver Linked Greenways Initiative (DLGI) Master Plan, 2008

- Twenty-one (21) communities, along with many partners including Huron-Clinton Metroparks, stepped forward and began to map how various trail connections could be made, completed a master plan, and currently being implemented community wide.

Brownstown DDA Area Market Assessment & Implementation, July 2016

- New housing and retail planned in the Town Center along with substantial investment underway in

Projects/Initiatives

expanding commercial with passive and active recreation activities.

Detroit River International Wildlife Refuge

- Both the visitor center and boat dock/fishing pier are still under construction; completion is estimated in spring 2018.

Interpretive Plan for the Huron River National Water Trail, December 2017

- The purpose of this plan is to help communities and stakeholders incorporate heritage on the lower reach of the nationally designated Huron River Water Trail, from Flat Rock to Lake Erie, which will create a more meaningful trail experience and a greater sense of place.



MUNICIPALITY MAP

Community Influences

Relevant Planning Documents

Parks and Recreation Master Plan 2014-2019 Gibraltar

Brownstown Township Master Plan, 2008

City of Gibraltar Parks and Recreation Master Plan, 2019

Downriver Linked Greenways Initiative Master Plan, 2008

SEMCOG Green Infrastructure Vision, 2014

“The existence of the Lake Erie Metropark...creates an opportunity for reinvestment into unique neighborhoods and commercial areas. Goals for this area should include emphasizing the waterfront aspect to help create a sense of place and maintain an emphasis on recreation.” pg. 30

“The East West Connector was the first ‘keystone’ project of the DLGI connecting the non-motorized trail systems in Lower Huron, Willow, and Oakwoods Metroparks, through Flat Rock, Brownstown, Rockwood, and Gibraltar and connecting into the trail system at Lake Erie.” pg. 12

“Public accessibility to the green infrastructure network is paramount, including access to parks, trails, water, and ensuring public spaces are designed for all residents.” pg. 1

Since the development and land use decisions of bordering communities and other governmental agencies directly impact the park, these neighbor master plans were reviewed and taken into account when creating this document. The opinions and ideas expressed by residents and leaders in these municipalities give Lake Erie a wider context and in many cases underscore the importance of the park’s resources to citizens.

Lake Erie Metropark is part of a broader system of recreation and green space that includes other Metroparks as well as local, county, and state parks and greenways. Due to this, recreation and green infrastructure plans were also considered in creating the Lake Erie Master Plan. Many communities are currently advancing their non-motorized networks, seeking grant funding to create greenways and paths, and cooperating to provide linked green and recreation spaces to their constituents.



PUBLIC INPUT

← Outreach Process

2022 Community Needs and Assessment

ETC Institute administered a needs assessment survey for Huron-Clinton Metroparks (HCMA) during the Spring of 2022. The survey was administered as part of Metroparks' efforts to establish and priorities improvements to the parks system, which included 13 parks covering more than 25,000 acres in Wayne, Oakland, Macomb, Livingston and Washtenaw counties. The survey and its results will guide HCMA in taking a resident-driven approach to making decisions that will enrich the future of the community and positively affect the lives of all residents in southeast Michigan.

ETC Institute mailed a survey packet to a random sample of households in Livingston County, Macomb County, Oakland County, Washtenaw County, Wayne County (outside the City of Detroit), and the City of Detroit.

Location	Completed Surveys	% Precision
<i>Livingston County</i>	479	±4.5%
<i>Macomb County</i>	511	±4.3%
<i>Oakland County</i>	583	±4.1%
<i>Washtenaw County</i>	514	±4.3%
<i>Wayne County (Outside Detroit)</i>	407	±4.9%
<i>City of Detroit</i>	405	±4.9%
Total	2,899	±1.8%

The table above shows the number of completed surveys collected in each of the six sampling areas. The table also shows the margin of error at the 95% level of confidence for each area.

The results presented in this report have been weighted to represent each sampling area's share of the population of the Huron-Clinton Metroparks service area. The weighted results give more weight to the responses from the larger sampling areas, including Macomb County, Oakland County, Wayne County (outside Detroit), and the City of Detroit, and similarly gives less weight to the responses of the smaller sampling areas, including Livingston County and Washtenaw County

Priorities for Parks & Recreation Facility Investments in the Huron-Clinton Metroparks Service Area

The Priority Investment Rating (PIR) was developed by ETC Institute to provide organizations with an objective tool for evaluating the priority that should be placed on Parks and Recreation investments. The Priority Investment Rating (PIR) equally weighs:

- the importance that households place on each facility/ amenity/ activity/program
- how many households have unmet needs for the facility/

Facility	Priority Investment Rating (PIR)
<i>Trails-paved, multi-use (walking, biking)</i>	189.2
<i>Beaches</i>	174.7
<i>Natural areas</i>	145.7
<i>Trails-unpaved, nature trails</i>	139.7
<i>Trails-unpaved, hiking</i>	137.2
<i>Nature centers</i>	114.2
<i>Canoe/kayak launch sites</i>	110.2
<i>Outdoor swimming pools</i>	107.9

Results

Wayne County (Outside of Detroit)

The table below shows the Priority Investment Ratings (PIR) for parks and recreation facilities, based on the PIR analysis conducted using the data from Wayne County (outside of Detroit) households. The following eight facilities were rated as high priorities for investment:

- Beaches
- Picnic shelters
- Paved multi-use trails for walking and biking
- Playgrounds
- Natural areas
- Picnic tables
- Outdoor swimming pools
- Nature centers

Facility	PIR	Priority
Beaches	195.3	High Priority (PIR=100-200)
Picnic shelters	176.4	
Trails-paved, multi-use (walking, biking)	165.2	
Playgrounds	150.8	
Natural areas	147.2	
Picnic tables	144.1	
Outdoor swimming pools	132.0	
Nature centers	121.8	
Trails-unpaved, nature trails	107.4	Medium Priority (PIR=50-99)
Fishing banks or docks	94.6	
Trails-unpaved, hiking	90.2	
Splash pad (water play area)	85.4	
Canoe/kayak rentals	79.9	
Waterslides	77.3	
Canoe/kayak launch sites	76.3	
Camping areas-group sites	61.2	
Trails-mountain biking	52.8	Low Priority (PIR=0-49)
Camping areas-primitive sites	49.2	
Camping areas-RVs	42.6	
Golf driving ranges	42.0	
Golf courses	36.7	
Boat ramps	36.3	
Boat docks	33.8	
Disc golf	25.2	
Marinas	22.6	

The table below shows the Priority Investment Ratings (PIR) for parks and recreation programs, based on the PIR analysis conducted using the data from Wayne County (outside of Detroit) households. The following 16 programs were rated as high priorities for investment:

- Concerts
- Art/photography
- Movies in the park
- Swim lessons
- Walking clubs/programs
- Water fitness programs
- Pet-friendly programs
- Environmental education programs
- Camping
- Programs for people with disabilities
- Astronomy programs
- Bird-wildlife watching programs
- Guided nature hikes
- Fishing programs
- Natural/cultural history programs
- Guided canoe/kayak tours

Program	PIR	Priority
Concerts	194.4	High Priority (PIR=100-200)
Art/photography	175.1	
Movies in the park	173.9	
Swim lessons	166.8	
Walking clubs/programs	164.6	
Water fitness programs	162.6	
Pet-friendly programs	150.9	
Environmental education programs	132.9	
Camping	129.0	Medium Priority (PIR=50-99)
Programs for people with disabilities	126.7	
Astronomy programs	126.2	
Bird/wildlife watching programs	125.0	
Guided nature hikes	121.7	
Fishing programs	114.2	
Natural/cultural history programs	108.7	
Guided canoe/kayak tours	105.5	
Farm educational programs	98.0	Low Priority (PIR=0-49)
Golf lessons	83.6	
Boating classes	80.6	
Guided motorized boat tours	70.3	
Homeschool programs	59.1	
Running clubs/programs	50.0	
Virtual programs	35.3	
Scouting	31.8	
Golf tournaments	29.9	

Action Plan

Needs & Opportunities

Based on the assessment of park conditions, demographic research and spatial analysis, public input, and staff input, the needs and opportunities listed throughout this document were developed. [5-year updates are in blue text](#)

Needs

- Continue to draw diverse range of visitors to the park
- Define and protect areas with important biodiversity features
- Better educate the importance of preserving important cultural features
- Address aging and overbuilt infrastructure
- Identify areas of facility duplication for repurposing and consolidation
- Work with county and local communities to address any park boundary issues
- Replace outdated, confusing, inconsistent signs
- Pursue improvements to park accessibility
- Diversify sources of revenue
- Target market strategies for facilities (golf, Marshlands Museum)
- Increase revenue and visitation
- Address changing needs of new population demographics
- Improve connectivity within the park and with the community
- Incorporate variety of opinions and user groups into master plan
- Maintenance of facilities for successful operations



Opportunities

- Build on park character to attract new visitors
- Create a resilient network of biodiverse areas in the park
- Draw new visitors with programming/education based on history of park
- Redevelop park areas to better serve visitors and environment
- Provide unique recreational facilities to draw visitors from across the region
- Create good working relationship with neighbors and partner organizations
- Create consistent, convenient wayfinding system to give visitors confidence
- Ensure that users of all abilities feel empowered to take full advantage of the park
- Offer new and exciting activities/programs to visitors of the park to both boost tolling and gather user fees
- Take advantage of proximity to urban population to grow revenue and system awareness
- Build on enthusiasm of Lake Erie visitors with exciting, engaging programs and events
- Draw new users with a connected, accessible, welcoming and safe park environment
- Create good working relationship with surrounding municipalities
- Maintenance plans and scheduling for facilities (dredging)
- Create vibrant park through robust, transparent public outreach



With these in mind, the following list of projects, plans, and studies was developed. Major and minor projects have been identified as priorities and assigned a timeline, and the accompanying studies have been listed. These pages should serve as a blueprint for the future of the park over the next ten years.

Large Facilities

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Implement Marshlands Museum rehabilitation strategy	Engineering	Interpretive	Foundation, Contractors, Consultants	TBD	x	x	x	Ongoing
Implement Marina selective redevelopment strategy while adhering under consent order	Engineering	Planning, Operations, Maintenance	Foundation, Contractors	TBD	x	x	x	Ongoing, Study complete
Implement Great Wave Area selective redevelopment strategy	Engineering	Planning, Operations, Maintenance	Contractors	TBD	x	x	x	Ongoing
Golf Course: cart path replacement	Engineering	Operations, Maintenance	Contractors	TBD	x	x	x	Ongoing
Golf cart fleet replacement	Engineering	Operations, Maintenance		TBD			x	Not started
Implement Boat Launch selective redevelopment strategy	Engineering	Operations, Planning	Foundation, Contractors	TBD	x	x		Ongoing



Infrastructure / Small Facilities

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Accessibility improvements, including interiors and walkways - parkwide	Engineering	Planning, Operations	Contractors	TBD	x	x	x	Ongoing
Tennis court replacement with volleyball court	Engineering	Operations, Maintenance	Contractors	\$30,000.00	x			Not started
Park office interior and site landscaping improvements	Engineering	Planning, Operations, Maintenance	Contractors	TBD		x	x	Not started
Implement shoreline stabilization in Cove Point area	Engineering	NR, Operations, Maintenance	Contractors	TBD		x		Not started
Pavement projects: main park roads, parking lot overlays as needed	Engineering		Contractors	\$1,100,000.00	x	x	x	Ongoing
Implement Maintenance Yard redevelopment plan	Engineering	Operations, Planning, Maintenance	Contractors	TBD	x			Not started
Hike-bike trail connectivity improvements: park office, shoreline near Great Wave (loop development)	Engineering	Planning, Operations, Maintenance	Contractors	TBD	x	x	x	Ongoing
Replace or remove service road bridge between Food Bar and maintenance building	Engineering	Operations, Maintenance	Contractors	\$100,000-400,000	x			In design
Rehabilitate existing boardwalks along nature trails, improve trails as necessary	Engineering	NR, Interpretive		\$100,000.00		x		Not started

Natural Resources

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
American lotus conservation plan	NR	Operations, Maintenance, Interpretive	Operations, Maintenance	TBD		x		Not started
Vegetation management (annual)	NR	Planning, Operations	Contractors	\$30,000.00	x	x	x	Ongoing
Hazardous waste removal (annual)	NR			\$2,000.00	x	x	x	Ongoing
Beaver, muskrat habitat study	NR	Planning, Operations		TBD		x		Not started
Early detection rapid response. Invasive species surveys and control in high quality natural areas (annual)	NR	Interpretive	MDNR	\$12,000.00	x	x	x	Ongoing
Eastern Prairie Fringed Orchid conservation (federally threatened species)	NR		MDNR/USFWS	\$20,000.00	x	x	x	Ongoing
Nuisance animal control	NR		NGOs	\$3,000.00	x	x	x	Ongoing
Conduct prescribed fire in fire adapted communities	NR		Contractors	\$4,000.00	x	x	x	Ongoing
Oak wilt control and prevention	NR	Operations, Interpretive	MDNR	\$4,500.00	x	x	x	Ongoing
Entrance grasslands restoration	NR		Contractors	\$40,000.00		x	x	Not started
Wetland complex restoration	NR		MDNR, NGOs	\$40,000.00	x	x	x	Ongoing

Signage

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Nature trail wayfinding updates	Planning	Operations, Interpretive		\$1,000.00				Complete
Develop and install interpretive signage	Interpretive	Operations, Planning		\$5,000.00	x	x	x	Ongoing
Construct and install trailhead structures on hike-bike trail	Maintenance	Graphics, Planning, Operations		\$4,500.00				Complete
New Branding	Marketing,	Planning, Operations, Interpretive		TBD	x	x	x	Ongoing



Action Plan

Area Plans/Studies/Initiatives

After identifying the need for changes or improvements based on user feedback and staff research, in-depth evaluation and planning must be carried out to gain a detailed understanding of problems and opportunities and determine the best strategies based on existing conditions and resources. Sometimes a process to formally monitor facility usage and gauge popularity is necessary. These studies often result in a scope of work, a work plan, and in some cases a site plan that give staff a roadmap for planned changes. Recommended studies are listed below:

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2026)	Long-Term (2026+)	Status
Marshlands Museum rehabilitation strategy: remove exterior patio wall, replace exterior building lighting, modernize interpretive exhibits	Planning	Interpretive, Engineering		staff time	x	x	x	Ongoing
Amend the 5-Year Recreation Plan with a marina selective redevelopment strategy: minor interior/exterior building improvements, updates to electrical and exterior lighting, pier and sheet pile replacement, move dredging spoils, determine dredging plan/schedule, entrance beautification, accessibility improvements, develop alternative classroom on site (upper floor for storage only, no public access)	Planning	Engineering, Operations, Maintenance, Interpretive	DNR– MI State Waterways Fund	staff time	x	x	x	Ongoing
Great Wave Area selective redevelopment strategy: replace pool with new feature utilizing existing mechanical building, retain and repurpose existing buildings, evaluate opportunities for additional restrooms, and programming	Planning	Engineering, Operations, Maintenance		staff time	x	x	x	Ongoing
Maintenance Yard redevelopment plan: replace carpenter shop, add heated storage space	Planning	Engineering, Operations, Maintenance		staff time	x			Not started
Develop storage solution and annual removal strategy for lake weeds	NR	Maintenance, Engineering, Planning	Contractors	staff time	x	x	x	Ongoing
Continue growth of partnership with SMART on transit initiatives	Planning	Engineering, Operations		staff time	x	x	x	Ongoing

Area Plans/Studies/Initiatives (cont'd)

Description	Department Lead	Other Departments	Other Partners	Cost Estimate	Short-Term (2022-2023)	Mid-Term (2024-2025)	Long-Term (2026+)	Status
Boat Launch selective redevelopment strategy: replace skid piers, add riprap to address shoreline erosion, evaluate channel dredging necessity, evaluate opportunity for developing a fish cleaning station, separated kayak launch, and possible event pavilion	Planning	Engineering, Operations, Maintenance, NR		staff time	x			Not started
Sustainability initiatives	NR	Operations, Planning, Engineering		TBD	x	x	x	Climate Action Plan
Establish invasive species control tracking website	NR	Web, IT	MNFI, MISIN	staff time	x	x	x	Ongoing
Stormwater monitoring	NR			\$5,000	x	x	x	Ongoing
Herpetological surveys	NR		NGOs	\$15,000	x	x	x	Ongoing
European Frog Bit control research	NR		Local	\$20,000	x	x	x	Ongoing
Canoe/kayak access study throughout park	Planning	Engineering, NR, Operations, Interpretive	HRWC	TBD		x		Not started
Continue to develop educational/interpretive projects with partners along the Huron River Water Trail	Planning	Interpretive, Engineering	HRWC	staff time	x	x	x	Ongoing
Develop comprehensive shoreline restoration study	NR	Engineering, Planning, Operations, Maintenance		TBD	x			Not started
Develop spill hazard/clean up plan	NR	Engineering, Planning, Operations, Maintenance		TBD	x			Not started
Food bar redevelopment plan	Planning	Operations, Maintenance		staff time		x		Not started
EV initiatives	Planning	Engineering,		staff time	x	x	x	Ongoing



To: Board of Commissioners
From: Sarah Plumer, Chief of Planning and Development
Project Title: Approval/Resolution – Off-Leash Dog Area Development (LWCF Grant)
Location: Lower Huron Metropark
Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve a resolution authorizing staff to execute the forthcoming Project Agreement for the Land and Water Conservation Fund (LWCF) Grant for an Off-Leash Dog Area Development at Lower Huron Metropark as recommended by Chief of Planning and Development Sarah Plumer and staff.

Fiscal Impact: This is a reimbursement grant. The total cost of the project is estimated at \$330,800, of which, the Metroparks will be responsible for \$159,900 in cash outlay, and \$5,500 in workforce labor. This project was included on the list of 2021 projects budgeted in the capital project fund.

Background: In March 2020, the Board authorized staff to apply for a LWCF grant to redevelop the old Par-3 golf course site into an accessible off-leash dog area using universal design principals. The project scope includes (1) two fenced areas for large and small dogs; (2) concrete bullpen area with water bottle/pet filling station, benches, and dog waste stations, (3) aggregate surface in high traffic areas at turf entry and on pathways extending into fenced areas; (4) improvements to paved parking lot; (5) concrete access path from parking to bullpen, (6) bridge railing improvements, (7) landscaping, (8) unisex portable restroom placed on concrete, (9) removal of aggregate parking lot and asphalt paths, and (10) demolition of small golf building and surrounds.

To move forward with accepting the grant funding, the Metroparks is required to submit the executed Project Agreement and support materials to the Michigan DNR. The project is anticipated for completion by the end of 2023.

Attachments: Grant Agreement Resolution

HURON-CLINTON METROPOLITAN AUTHORITY
13000 HIGH RIDGE DRIVE, BRIGHTON, MICHIGAN 48114

ACCEPTANCE OF LAND AND WATER CONSERVATION FUND GRANT FOR
LOWER HURON METROPARK – OFF-LEASH DOG AREA DEVELOPMENT

Resolution No. 2022-08

Motion made by: Commissioner _____

Supported by: Commissioner _____

AT A MEETING OF THE BOARD OF COMMISSIONERS OF THE HURON-CLINTON METROPOLITAN
AUTHORITY HELD ON NOVEMBER 10, 2022, THE BOARD ADOPTED THE FOLLOWING RESOLUTION:

WHEREAS, the Huron-Clinton Metropolitan Authority ("Authority") previously supported the submission of an
application titled, Lower Huron Metropark – Off-Leash Dog Area Development, to the Land and Water
Conservation Fund grant program; and

WHEREAS, the Authority desires to redevelop Lower Huron Metropark's old par-3 golf course site into an
accessible off-leash dog area using universal design principles, to comprise of: (1) two fenced areas for large and
small dogs; (2) concrete bullpen area with water bottle/pet filling station, benches, and dog waste stations, (3)
aggregate surface in high traffic areas at turf entry and on pathways extending into fenced areas; (4)
improvements to paved parking lot; (5) concrete access path from parking to bullpen, (6) bridge railing
improvements, (7) landscaping, (8) unisex portable restroom placed on concrete, (9) removal of aggregate parking
lot and asphalt paths, and (10) demolition of small golf building and surrounds; and

NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of the Huron-Clinton Metropolitan
Authority does hereby accept the terms of the Agreement for LW20-0006 (26-01843) as received from the
Michigan Department of Natural Resources (DEPARTMENT),

BE IT FURTHER RESOLVED that the Huron-Clinton Metropolitan Authority does hereby specifically agree,
but not by way of limitation, as follows:

- 1. To appropriate all funds necessary to complete the project during the project period and to provide
\$165,400 dollars (\$159,900 in cash outlay, \$5,500 in workforce labor) match for the grant authorized by
the DEPARTMENT.
2. To maintain satisfactory financial accounts, documents, and records to make them available to the
DEPARTMENT for auditing at reasonable times.
3. To construct the project and provide such funds, services and materials as may be necessary to satisfy
the terms of said Agreement.
4. To regulate the use of the facility constructed and reserved under this Agreement to assure the use thereof
by the public on equal and reasonable terms.
5. To comply with any and all terms of said Agreement including all terms not specifically set forth in the
foregoing portions of this Resolution."

AYES: Commissioners: _____

NAYS: Commissioners: _____

ABSTAIN: Commissioners: _____

ABSENT: Commissioners: _____

I hereby certify that the above is a true and correct copy
of the Resolution adopted by the Huron-Clinton
Metropolitan Authority, on Thursday, November 10, 2022.

Shawn Athayde, Recording Secretary



To: Board of Commissioners
From: Sarah Plumer, Chief of Planning & Development
Project Title: Approval/Resolution – Walnut Grove Campground Development
Location: Lower Huron Metropark
Date: October 7, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners approve a resolution authorizing staff to execute the forthcoming Project Agreement for the Michigan Natural Resources Trust Fund (MNRTF) Grant for the Lower Huron Metropark – Walnut Grove Campground Development as recommended by Chief of Planning and Development Sarah Plumer and staff.

Fiscal Impact: This is a reimbursement grant. The total cost of the project is estimated at \$600,000 of which, the Metroparks will be responsible for \$140,000 in cash outlay, \$10,000 in workforce labor, \$150,000 award from the Ralph C. Wilson, Jr. Foundation to match the \$300,000 award for the MNRTF grant. This project was included on the list of 2022 projects budgeted in the capital project fund.

Background: In March 2020, the Board authorized staff to apply for an MNRTF grant to redevelop the Walnut Grove campground with improved features and accessibility using universal design principles. The project scope includes (1) six new campsites; (2) seven ADA campsites with concrete pads; (3) water and electric hookups to all sites; (4) accessible picnic tables (5) firewood storage shed; (6) playground upgrades; (7) Wi-Fi; (8) landscaping including 50 native tree plantings; (9) two drinking fountain/water bottle filling stations, and (10) parking lot improvements including removal of excess parking areas.

In order to move forward with accepting the grant funding, the Metroparks is required to submit the executed Project Agreement and support materials to the DNR.

Attachment: Grant Agreement Resolution

HURON-CLINTON METROPOLITAN AUTHORITY
13000 HIGH RIDGE DRIVE, BRIGHTON, MICHIGAN 48114

ACCEPTANCE OF LAND AND WATER CONSERVATION FUND GRANT FOR
LOWER HURON METROPARK – WALNUT GROVE CAMPGROUND DEVELOPMENT

Resolution No. 2022-09

Motion made by: Commissioner _____

Supported by: Commissioner _____

AT A MEETING OF THE BOARD OF COMMISSIONERS OF THE HURON-CLINTON METROPOLITAN AUTHORITY HELD ON NOVEMBER 10, 2022, THE BOARD ADOPTED THE FOLLOWING RESOLUTION:

WHEREAS, the Huron-Clinton Metropolitan Authority ("Authority") previously supported the submission of an application titled, Lower Huron Metropark – Walnut Grove Campground Development, to the Land and Water Conservation Fund grant program; and

WHEREAS, the Authority desires to redevelop the Lower Huron Metropark campground with improved features and accessibility using universal design principles to comprise: (1) six new campsites; (2) seven ADA campsites with concrete pads; (3) water and electric hookups to all sites; (4) accessible picnic tables (5) firewood storage shed; (6) playground upgrades; (7) Wi-Fi; (8) landscaping including 50 native tree plantings; (9) two drinking fountain/water bottle filling stations, and (10) parking lot improvements including removal of excess parking areas; and

NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of the Huron-Clinton Metropolitan Authority does hereby accept the terms of the Agreement for LW20-0024 (26-01842) as received from the Michigan Department of Natural Resources (DEPARTMENT),

BE IT FURTHER RESOLVED that the Huron-Clinton Metropolitan Authority does hereby specifically agree, but not by way of limitation, as follows:

- 1. To appropriate all funds necessary to complete the project during the project period and to provide \$150,000 dollars (\$140,000 in cash outlay, \$10,000 in workforce labor) match for the grant authorized by the DEPARTMENT. An additional \$150,000 cash award received from Ralph C. Wilson Jr. Foundation will assist in funding the project redevelopment cost towards HCMA's matching commitment, for a grand total of \$300,000 in matching funds.
2. To maintain satisfactory financial accounts, documents, and records to make them available to the DEPARTMENT for auditing at reasonable times.
3. To construct the project and provide such funds, services and materials as may be necessary to satisfy the terms of said Agreement.
4. To regulate the use of the facility constructed and reserved under this Agreement to assure the use thereof by the public on equal and reasonable terms.
5. To comply with any and all terms of said Agreement including all terms not specifically set forth in the foregoing portions of this Resolution."

AYES: Commissioners: _____

NAYS: Commissioners: _____

ABSTAIN: Commissioners: _____

ABSENT: Commissioners: _____

I hereby certify that the above is a true and correct copy of the Resolution adopted by the Huron-Clinton Metropolitan Authority, on Thursday, November 10, 2022.

Shawn Athayde, Recording Secretary



To: Board of Commissioners
 From: Sarah Plumer, Chief of Planning & Development
 Project Title: Approval/Resolution – Great Wave Pool Renovation
 Location: Lake Erie Metropark
 Date: October 7, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve a resolution for the Michigan Department of Natural Resources SPARK grant program for the Great Wave Pool Renovation project at Lake Erie Metropark as recommended by Chief of Planning and Development Sarah Plumer and staff

Fiscal Impact: The proposed project total cost is estimated at \$4 million with up to \$1 million in grant funding. If awarded, matching funds up to \$3 million would be allocated in the Capital Project Fund during the 2023 annual budget process.

Background: The SPARK grant program is a new program administered by the DNR and is made possible by the Building Michigan Together Plan through Public Act 53 of 2022.

This grant program provides \$65 million in federal funding for state and local parks in three rounds made available from October 2022 through the end of Summer 2023. The maximum award amount is \$1 million.

The focus of this program is to provide funding to rehabilitate public outdoor facilities that were hit hardest by the pandemic. The program aims to “support projects that provide safe, accessible, public recreation facilities and spaces to improve people’s health, introduce new recreation experiences, build on existing park infrastructure and make it easier for people to enjoy the outdoors.”

The Metroparks proposed project will renovate the Great Wave Pool, which is currently closed due to the deterioration of the pool structure. The scope will include improvements to the structure including a pool liner and may include improvements to the accessibility of the bath house and upgraded amenities on the pool deck. Many improvements to the structure and functionality were outlined in Appendix B: Lake Erie Metropark Great Wave Pool Audit of the Swimming Program Development Plan.

Application Timeline (Estimated):

Deadline for submission.....	6 Weeks from Notice of Availability
Notification of award.....	End of 2022

Attachment: Grant Resolution

HURON-CLINTON METROPOLITAN AUTHORITY
13000 HIGH RIDGE DRIVE, BRIGHTON, MICHIGAN 48114

SPARK GRANT SUBMISSION FOR LAKE ERIE METROPARK
GREAT WAVE POOL RENOVATION

Resolution No. 2022-10

Motion made by: Commissioner _____

Supported by: Commissioner _____

AT A MEETING OF THE BOARD OF COMMISSIONERS OF THE HURON-CLINTON METROPOLITAN AUTHORITY HELD ON NOVEMBER 10, 2022, THE BOARD ADOPTED THE FOLLOWING RESOLUTION:

WHEREAS, the Huron-Clinton Metropolitan Authority supports the submission of an application titled, Lake Erie Metropark’s Great Wave Pool Renovation, to the Michigan Spark Grant program as administered by the Michigan Department of Natural Resources; and

WHEREAS, the proposed improvements are identified in the Five-Year Recreation Plan for the Metroparks as a priority, adopted by the Board of Commissioners of the Authority at their regular meeting on September 14, 2017; and

WHEREAS, the Authority desires to renovate the Great Wave Pool at Lake Erie Metropark, which is an outdoor wave pool and splash pad. Renovations will improve the structure and functionality of the pool with a new pool liner and required improvements outlined Appendix B: Lake Erie Metropark Great Wave Pool Audit of the Swimming Program Development Plan. Potential additional project components as part of this grant will improve accessibility using universal design principles which will comprise of bathhouse renovations and deck improvements; and

WHEREAS, the Planning and Development Department, under the direction of the Director, has prepared a grant request for \$1,000,000 from the Michigan Spark grant program to assist with the total project cost of \$4,000,000.

NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of the Huron-Clinton Metropolitan Authority does hereby authorize the commitment of up to \$3,000,000 in cash outlay toward the completion of the proposed project during the 2023 and 2024 fiscal years; and

BE IT FURTHER RESOLVED that the Huron-Clinton Metropolitan Authority hereby authorizes submission of a Michigan Spark grant application to be made to the Michigan Department of Natural Resources.

AYES: Commissioners: _____

NAYS: Commissioners: _____

ABSTAIN: Commissioners: _____

ABSENT: Commissioners: _____

I hereby certify that the above is a true and correct copy of the Resolution adopted by the Huron-Clinton Metropolitan Authority, on November 10, 2022.

Shawn Athayde, Recording Secretary



To: Board of Commissioners
 From: Sarah Plumer, Chief of Planning & Development
 Project Title: Approval/Resolution – Engineering for High Water, North Marina
 Location: Lake St. Clair Metropark
 Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve a resolution for the Michigan Department of Environment, Great Lakes, and Energy’s (EGLE) State High Water Infrastructure grant program for the *Engineering for High Water at North Marina* project at Lake St. Clair Metropark as recommended by Chief of Planning and Development Sarah Plumer and staff

Fiscal Impact: The proposed total design cost is estimated at \$300,000 with up to \$240,000 in grant funding. If awarded, matching funds up to \$60,000 would be allocated in the Capital Project Fund during the 2023-2024 annual budget process.

Background: The state High Water Infrastructure grant program is a new one-time only grant administered by EGLE. The Legislature appropriated funding for the High-Water Infrastructure Grant Program under Section 1006 of Public Act 87 of 2021.

This statewide grant program provides \$14.25 million in funding for infrastructure and planning grants to mitigate effects of severe weather events. The maximum award amount is \$1.5 million.

The program focuses on local and regional projects that address flooding, coastline erosion, urban heat, and stormwater management.

The Metroparks proposed project will design the North Marina to better withstand the increasing and fluctuating levels of the Great Lakes. The North Marina has been closed since June 2019 due to the damage of utilities done by the high-water levels. The project scope will include the completion of design plans and all necessary permits, with the end goal of the project becoming shovel ready.

Application Timeline:

Deadline for submission.....	November 30, 2022
Notification of award.....	April 2023

Attachment: Grant Resolution

HURON-CLINTON METROPOLITAN AUTHORITY
13000 HIGH RIDGE DRIVE, BRIGHTON, MICHIGAN 48114

EGLE STATE HIGH WATER INFRASTRUCTURE GRANT PROGRAM SUBMISSION
FOR LAKE ST. CLAIR METROPARK
ENGINEERING FOR HIGH WATER AT NORTH MARINA

Resolution No. 2022-11

Motion made by: Commissioner _____

Supported by: Commissioner _____

AT A MEETING OF THE BOARD OF COMMISSIONERS OF THE HURON-CLINTON METROPOLITAN AUTHORITY HELD ON NOVEMBER 10, 2022, THE BOARD ADOPTED THE FOLLOWING RESOLUTION:

WHEREAS, the Huron-Clinton Metropolitan Authority supports the submission of an application titled, Engineering for High Water at North Marina, to the State High Water Infrastructure Grant program as administered by the Michigan Department of Environment, Great Lakes, and Energy (EGLE); and

WHEREAS, the proposed improvements are identified in the Five-Year Recreation Plan for the Metroparks as a priority, adopted by the Board of Commissioners of the Authority at their regular meeting on September 14, 2017; and the proposed improvements are identified in an update to the Lake St. Clair Master Plan, adopted by the Board of Commissioners of the Authority at their regular meeting on July 14, 2022; and

WHEREAS, the Authority desires to renovate the North Marina at Lake St. Clair Metropark, which is has been closed since June 2019 due to damage done by high water. Renovations will be designed to have greater resiliency to the increasing and varying Great Lakes water levels, while also improving the safety associated with electricity at each slip. Additional project components as part of this design will improve accessibility using universal design principles.

WHEREAS, the Planning and Development Department, under the direction of the Director, has prepared a grant request to complete engineering and design in the amount of \$240,000 from the EGLE State High Water Infrastructure grant program to assist with the total project cost of \$300,000.

NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of the Huron-Clinton Metropolitan Authority does hereby authorize the commitment of up to \$60,000 in cash outlay toward the completion of the proposed project during the 2023 and 2024 fiscal years; and

BE IT FURTHER RESOLVED that the Huron-Clinton Metropolitan Authority hereby authorizes submission of an EGLE State High Water Infrastructure grant application to be made to the Michigan Department of Environment, Great Lakes, and Energy.

AYES: Commissioners: _____

NAYS: Commissioners: _____

ABSTAIN: Commissioners: _____

ABSENT: Commissioners: _____

I hereby certify that the above is a true and correct copy of the Resolution adopted by the Huron-Clinton Metropolitan Authority, on November 10, 2022.

Shawn Athayde, Recording Secretary



To: Board of Commissioners
 From: Sarah Plumer, Chief of Planning and Development
 Project Title: Approval/Resolution – Greening the Parking Lot
 Location: Lake St. Clair Metropark
 Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve a resolution for the Michigan Department of Environment, Great Lakes, and Energy’s (EGLE) State High Water Infrastructure grant program for the *Greening of the Parking Lot* at Lake St. Clair Metropark as recommended by Chief of Planning and Development Sarah Plumer and staff.

Fiscal Impact: The proposed phase’s total cost is estimated at \$1,875,000 with up to \$1,500,000 in grant funding. If awarded, matching funds up to \$375,000 would be allocated in the Capital Project Fund during the 2023-2024 annual budget process.

Background: The State High Water Infrastructure grant program is a new one-time only grant administered by EGLE. The Legislature appropriated funding for the High-Water Infrastructure Grant Program under Section 1006 of Public Act 87 of 2021.

This statewide grant program provides \$14.25 million in state funding for infrastructure and planning grants to mitigate effects of severe weather events. The maximum award amount is \$1.5 million.

The program focuses on local and regional projects that address flooding, coastline erosion, urban heat, and stormwater management.

The Metroparks are working to implement Phase 3 of the parking lot renovation at Lake St. Clair Metropark. Renovations will be designed to remove portions of pavement to allow for green infrastructure, and reduce the heat island effect. Additional project components as part of this design will improve stormwater capture and increase tree canopy.

Application Timeline (Estimated):

Deadline for submission.....	November 30, 2022
Notification of award.....	April 2023

Attachment: Grant Resolution

HURON-CLINTON METROPOLITAN AUTHORITY
13000 HIGH RIDGE DRIVE, BRIGHTON, MICHIGAN 48114

EGLE STATE HIGH WATER INFRASTRUCTURE GRANT PROGRAM SUBMISSION FOR GREENING THE
PARKING LOT AT LAKE ST. CLAIR METROPARK

Resolution No. 2022-12

Motion made by: Commissioner _____

Supported by: Commissioner _____

AT A MEETING OF THE BOARD OF COMMISSIONERS OF THE HURON-CLINTON METROPOLITAN AUTHORITY HELD ON NOVEMBER 10, 2022, THE BOARD ADOPTED THE FOLLOWING RESOLUTION:

WHEREAS, the Huron-Clinton Metropolitan Authority supports the submission of an application titled, *Greening the Parking Lot at Lake St. Clair Metropark*, to the State High Water Infrastructure Grant program as administered by the Michigan Department of Environment, Great Lakes, and Energy (EGLE); and

WHEREAS, the proposed improvements are identified in the Five-Year Recreation Plan for the Metroparks as a priority, adopted by the Board of Commissioners of the Authority at their regular meeting on September 14, 2017; and the proposed improvements are identified in an update to the Lake St. Clair Master Plan, adopted by the Board of Commissioners of the Authority at their regular meeting on July 14, 2022; and

WHEREAS, the Authority desires to implement Phase 3 of the parking lot renovation at Lake St. Clair Metropark. Renovations will be designed to remove portions of pavement to allow for green infrastructure, and reduce the heat island effect. Additional project components as part of this design will improve stormwater capture and increase tree canopy.

WHEREAS, the Planning and Development Department, under the direction of the Director, has prepared a grant request for \$1,500,000 from the EGLE State High Water Infrastructure grant program to assist with the total project cost of \$1,875,000.

NOW, THEREFORE, BE IT RESOLVED that the Board of Commissioners of the Huron-Clinton Metropolitan Authority does hereby authorize the commitment of up to \$375,000 in cash outlay toward the completion of the proposed project during the 2023 and 2024 fiscal years; and

BE IT FURTHER RESOLVED that the Huron-Clinton Metropolitan Authority hereby authorizes submission of an EGLE State High Water Infrastructure grant application to be made to the Michigan Department of Environment, Great Lakes, and Energy.

AYES: Commissioners: _____

NAYS: Commissioners: _____

ABSTAIN: Commissioners: _____

ABSENT: Commissioners: _____

I hereby certify that the above is a true and correct copy of the Resolution adopted by the Huron-Clinton Metropolitan Authority, on November 10, 2022.

Shawn Athayde, Recording Secretary



To: Board of Commissioners
From: Mike Henkel, Chief of Engineering Services
Project No: P-509-21-560
Project Title: Approval – Golf Course Pump House/Irrigation System Replacement
Project Type: Capital Improvement
Location: Stony Creek, Indian Springs, Willow Metroparks
Date: October 7, 2022

Proposal Received: September 12, 2022

Action Requested: Motion to Approve

That the Board of Commissioners award contract P-509-21-560 to Hubble, Roth & Clark, Inc. in the amount of \$221,400 as recommended by Chief of Engineering Services Mike Henkel and staff.

Fiscal Impact: Currently in the 2022 budget \$1 million is allocated for the Stony Creek irrigation system replacement and \$431,000 for Indian Springs golf course pumphouse upgrades. Proposed for the 2023 budget will be \$260,000 for the Willow golf course pumphouse upgrades.

Scope of Work: The work includes professional design services to address the replacement and upgrades to the golf course irrigation systems.

Background: The design services for Stony Creek golf course irrigation replacement will address, head controls, pipe, sprinkler heads, valves, control wiring, pumps and pump controls, intakes, and enclosure/building.

The Stony Creek golf course was built in 1979. The existing single row irrigation heads are controlled by a Toro varitime hydraulic system, which is antiquated and needs to be replaced. The existing pond where the intakes are located is supplemented by an additional trailered mounted pump with suction lines placed on the ground from the main lake. This is necessary in dry times to facilitate watering the course. Staff would like to have a solution to eliminate the supplemental pump. The golf course has a high-water table and timing of the project will be a consideration to minimize installation complications.

The irrigation system for Willow was constructed in 1978 and Indian Springs 1988. The work for Indian Springs and Willow will focus on the irrigation pump systems and the work will include the design of intake piping, pump controls and pump enclosures.

Budget Amount for Contract Services

- Stony Creek Irrigation System replacement	\$1,000,000.00
- Willow Gol Course Pump House Upgrades	\$ 260,000.00
- Indian Springs Pump House Upgrades (2023)	<u>\$ 431,000.00</u>
o Total	\$1,691,000.00

Work Order Amount

- Contract Amount Hubble Roth & Clark, Brighton	\$ 221,400.00
- Contract Administration	<u>\$ 10,000.00</u>
- Total Proposed Work Order Amount	\$ 231,400.00

This project was reported and publicly advertised on MITN.

The following reviewed the RFP but did not submit a proposal

- Dyrris Marshall, Eastpointe
- Hubbell, Roth & Clark, Inc., Bloomfield Hills
- A3C, Ann Arbor
- Logistics Specialties Inc
- DLZ Michigan, Inc., Lansing
- Spartan Distributors, Sparta
- Marc Dutton Irrigation, Inc., Waterford
- Total Control LLC, Livonia
- Orchard Hiltz & McCliment Inc., Livonia
- Giffels Webster, Birmingham
- DevCare Solutions, Columbus
- Geotech, Inc. Grand Rapids
- Peerless-Midwest, Inc., Ionia
- Detroit Pump & Mfg. Co, Warren
- Tetra Tech of Michigan, Ann Arbor
- Progressive Plumbing Supply, Warren
- Shreevastava Inc, Bhagalpur

Attachment: Hubbell, Roth & Clark, Inc. Proposal

RFP NO.: P-509-21-560

9-D-1-a

PART I - TECHNICAL REQUEST FOR PROPOSAL

GOLF COURSE PUMP HOUSE AND IRRIGATION SYSTEM REPLACEMENT

DUE: SEPTEMBER 12, 2022 AT 2:00PM



SUBMITTED TO:

**HURON- CLINTON
METROPOLITAN AUTHORITY**

13000 High Ridge Drive
Brighton, MI 48114

ENGINEERING.BIDS@METROPARKS.COM



PREPARED BY:

**HUBBELL, ROTH &
CLARK, INC.**

555 Hulet Dr.
Bloomfield Hills, MI 48302-0360

Phone: 248-454-6300
Fax: 248-454-6312



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

ENGINEERING.

ENVIRONMENT.

EXCELLENCE.



September 12, 2022

Huron-Clinton Metropolitan Authority
13000 High Ridge Drive
Brighton, MI 48114

Attn: Engineering Department

Re: RFP No. P-509-21-560
Golf Course Pump House and Irrigation System Replacement

HRC Job No. 20220830

To Whom it May Concern:

On behalf of Hubbell, Roth & Clark, Inc. (HRC), thank you for the opportunity to provide a proposal for the Golf Course Pump House and Irrigation System Replacement Project for Huron-Clinton Metropolitan Authority. HRC is a Michigan based multi-disciplined engineering firm that offers a vast array of capabilities to meet and exceed the needs of our clientele. For over 100 years, we have provided consulting services to a wide variety of clients throughout Michigan, yet we continue to refine our approach to best match our client's needs.

HRC is headquartered at 555 Hulet Drive in Bloomfield Hills, Michigan, and has eight branch offices located throughout Michigan. HRC has provided a comprehensive overview of the highly qualified proposed staff for this project, with an organizational chart on [Page 10](#) and resumes starting on [Page 11](#).

HRC has wide-ranging experience assisting municipalities and authorities in all aspects of Pump Station assessment, design, and construction administration. HRC has completed assessment and design of pump stations for numerous communities in Michigan including the Cities of Ann Arbor, Troy, and Rochester Hills.

Roland Alix, P.E., works primarily from the HRC headquarters office and will serve as Principal-in-Charge on this project and represent HRC to negotiate and bind into a contract with the Authority. This proposal will remain valid for a period of 90 days from September 12, 2022. Mr. Alix can be contacted by cell phone at 248-736-8704, in the office directly at 248-454-6385, or by email at ralix@hrcengr.com.

After you have reviewed our qualifications, HRC would welcome the opportunity to discuss the details of this project further with representatives of the Authority.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



Roland Alix, PE
Vice President
m: (248) 736-8704
o: (248) 454-6385
email: ralix@hrcengr.com

TABLE OF CONTENTS

A. General Information and Project Team	1-2
HUBBELL, ROTH & CLARK, INC.....	1
SUB-CONSULTANTS - GOLF IRRIGATION DESIGN	2
B. Understanding of Project and Tasks	3-6
UNDERSTANDING OF THE PROJECT	3-4
PROJECT EXECUTION.....	5
PROJECT REFERENCES	5-6
C. Management Summary, Work Plan, and Schedule	7-9
PROPOSED METHODOLOGY AND QUALITY	7
PROJECT APPROACH	7
DESIGN SERVICES.....	7-8
CONTRACT DOCUMENTS	8-9
MEETINGS.....	9
TIMELINE.....	9
D. Personnel.....	10-17
ORGANIZATIONAL CHART	10
PROJECT TEAM LEADS	11-16
PROJECT TEAM SUPPORT	17
E. Budget Review	19
F. References	20

A. GENERAL INFORMATION & PROJECT TEAM

CORPORATE BACKGROUND

Hubbell, Roth & Clark, Inc.

Full Service Engineering & Consulting Firm

S-Corporation

Licensed & registered in the state of Michigan

Federal I.D. No.
38-0668370

Headquarters
555 Hulet Drive
Bloomfield Hills, MI 48302
Phone: (248) 454-6300

Authorized to Negotiate
Roland Alix, PE
Vice President
Cell: (248) 736-8704
Direct: (248) 454-6385
Fax: (248) 454-6312
Email: ralix@hrcengr.com

This Proposal is submitted in the name of Hubbell, Roth & Clark, Inc. (HRC). HRC has nine offices located throughout Michigan. This project will be performed by HRC personnel who reside at the **HRC Headquarters office**, located at **555 Hulet Drive, Bloomfield Hills, Michigan 48302**. HRC will contract with **Irrigation Consultant Services, Inc.**, located at **715 Ludlow Avenue, Rochester Michigan 48307**. HRC and ICS will be the 'Project Team' for this project.

Hubbell, Roth & Clark, Inc. (HRC) was founded in 1915 on the premise of developing innovative engineering solutions for growing infrastructure needs. We utilize industry-leading approaches, materials, and technologies to ensure infrastructures are more resilient. We have had the good fortune of serving Michigan communities for over 100 years on a wide range of projects. This longevity has been accomplished due to the strength of more than 286 engineers, scientists, architects, surveyors, and technicians. Our personnel stay focused on our clients' desired outcomes, addressing project challenges with superior solutions. Our client-centric processes identify, communicate, track, document, and measure our client's expectations from the beginning of the project until the end.

As a multi-disciplinary consulting firm, with many capabilities that can be found on our website, **www.hrcengr.com**, the vast majority of HRC's resources are focused on clients and projects, rather than securing the next acquisition. We are hands-on problem solvers. HRC is, by design, agile enough to tackle small quick turn-around assignments, as well as large complex projects.

At HRC, we consider our clients to be a significant part of our culture. Our relationship with each is worth more than the services we sell. Everything we build is developed to address their needs. We work alongside clients to co-develop solutions that create trusted interactions, surpass expectations, and achieve engineering, environment, and excellence requirements.

HRC is proud of its many engineering achievements and has received numerous awards from the American Council of Engineering Companies (ACEC), the American Society of Civil Engineers (ASCE), the American Public Works Association (APWA) and other professional organizations for innovative and cost-effective projects. Additional awards received in recent can be found on our **website**.



HRC was part of more than 30 Michigan companies named **2021 Top Workplaces USA** in the first year of a program. We also were recognized by the Detroit Free Press as a **Top Workplace** for a second consecutive year. Other accolades include being a **Top 50**

Trenchless Technology Design Firm and an ENR **Top 500 Design Firm**. HRC also received the honor of being named one of the **Cool Places to Work in Michigan** by Crain's Detroit Business magazine.

SUB-CONSULTANT – GOLF IRRIGATION DESIGN



HRC will be teaming up with Irrigation Consultant Services, Inc, (ICS) for assistance with the golf course irrigation design for Stoney Creek Golf Course and will utilize their golf course irrigation design experience to review the pump station designs for Indian Springs and Willow Golf Courses.

ICS strives to provide design and consulting services focused on sustainable landscape irrigation principals. Those same efforts are made while performing planning and design

services in the areas of water resource development and storm water/rainwater harvesting. ICS will also provide detailed and thorough assistance related to irrigation system analysis, irrigation system construction administration, and golf course irrigation GPS mapping. Please visit www.irrcons.com for more information about the experience and capabilities of ICS.



B. UNDERSTANDING OF PROJECT AND TASKS

UNDERSTANDING OF THE PROJECT

In 2020, with our extensive background in pump station design and engineering, HRC assessed golf course pump stations at six parks for the Huron-Clinton Metropolitan Authority (HCMA). Based on the assessment findings of aging infrastructure and facilities, the HCMA is requesting proposals for design and construction administration services relating to upgrading the irrigation systems for the golf courses at Indian Springs, Willow, and Stony Creek. Based on the scope of work provided in the RFP, the services covered by this proposal are described below.

Indian Springs Golf Course

With the existing pump station being over 30 years old, our design services for the Indian Springs Golf Course will include replacement of the pump station and pump house to improve system performance, including new intake piping, variable frequency drive pumps and controls, and site restoration. The design will also include power and communications for operation and control of the new pumps. Although it is our understanding the scope of work does not include changes to the irrigation pond or the golf course irrigation system, our Project Team will design the new pump station anticipating future replacement of the irrigation system.

Willow Golf Course

With the existing pump station having numerous deficiencies including system pressure issues, the design services for the Willow Golf Course will include replacement of the pump station and pump house to improve system performance, including new intake piping, variable frequency drive pumps and controls, and site restoration. The design will also include power and communications for operation and control of the new pumps. Although it is our understanding the scope of work does not include changes to the irrigation pond or the golf course irrigation system, our Project Team will design the new pump station anticipating future replacement of the irrigation system.

Stony Creek Golf Course

Built in 1979, the Stony Creek pump station has outdated controls, aging facilities, and an under-sized irrigation pond. The design services for the Stony Creek golf course will include replacement of the pump station and pump house, site improvements, and improvements to the golf course irrigation system. Included in the design will be new intake piping, variable frequency drive pumps and controls, power supply, system communications, piping, heads, valves, satellite controls, and site restoration. An evaluation of irrigation water sources and volume for the new pump station will be included to determine the required design improvements and modifications to the existing irrigation pond and improve golf course operation.

Construction Services

Based on our understanding of the RFP, the following construction services will be provided as part of this project:

1. Bids received by the HCMA will be reviewed by HRC and ICS. The Project Team will provide comments based on completeness of the bids provided and the apparent or known experience of each bidder. Contacting bidder references is not included in this scope of work. However, the Project Team will review information provided by bidder references in this evaluation. Based on this review, the Project Team will provide a recommendation to the HCMA for award of a construction contract.
2. The Project Team will review submittals provided by the contractor. Each submittal will be reviewed for compliance with the project specifications and the Project Team will provide comments to the contractor based on this review. The HCMA will be included in submittal review comments.

3. The Project Team will provide construction observation services. Construction observation services will include up to 30 hours per week of onsite construction observation, including preparation of daily observation reports. The Project Team will advise the contractor and the HCMA when conditions are observed that are not in compliance with the design. However, the Project Team will not have supervisory authority over the contractor.
4. The Project Team will provide a surveyor to layout locations of equipment to be installed based on their location on the construction drawings.
5. The Project Team will participate in regular construction progress meetings so work progress can be reviewed and construction issues discussed and resolved. It is anticipated that construction progress meetings will be held bi-weekly.
6. As construction progresses, the Project Team will be available to provide responses to requests for information (RFIs) submitted by the contractor.
7. Upon completion of the construction, the Project Team will survey the new work and obtain red-line drawings from the contractor. Using the red-line drawings and the survey of actual equipment locations, the Project Team will develop as-built construction drawings, which will be provided to the HCMA.

Assumptions

Based on review of the RFP and past experience on similar projects, HRC and ICS have made the following assumptions in development of a scope of services for this proposal to arrive at a project cost:

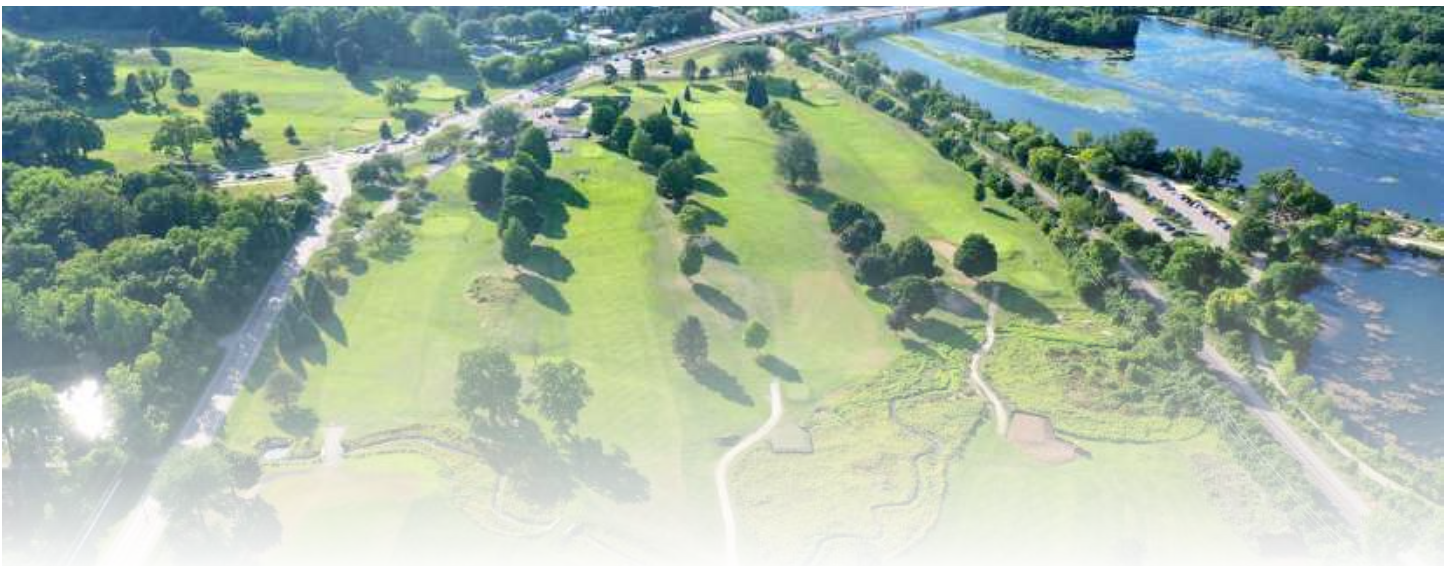
1. The construction services proposed for the three golf courses will be contracted under a single construction contract. On that basis, a single event of review of bid submissions and award recommendation is included in the scope of services.
2. The HCMA will contact bidder references to obtain information regarding experience and qualifications of the bidders.
3. The electrical power currently available at the golf courses is adequate to power the new pump stations and irrigation systems.
4. The following construction administration services are not included in this proposal. If the HCMA would like these services provided, HRC is willing to provide a proposal to provide the requested services.
 - ≡ Preparation or review of construction contract change orders
 - ≡ Review of contractor payment applications
 - ≡ Construction material testing
5. Specifications will be included on design drawings. The Project Team does not intend to develop a separate specification manual.
6. Drawings prepared by the Project Team will be provided to the HCMA in electronic format in pdf form. At the request of the HCMA, CAD files can also be provided.
7. The bidding documents will be prepared by the HCMA and the HCMA will make bidding documents available to bidders and will receive bids from bidders.
8. This proposal includes plans suitable for a contractor to obtain a permit(s) for the work but does not include costs for payment of fees required to obtain permit(s) or plan reviews.

PROJECT EXECUTION

Upon authorization to proceed, the Project Team will execute this project by completing the following tasks:

1. Meet with staff of the HCMA Engineering Department and others as applicable to discuss the needs and expectations of the HCMA. The Project Team will then proceed with its design effort to produce the work product agreed upon.
2. The design effort will begin with a visit to each of these three golf courses to obtain information regarding existing conditions to supplement the information obtained during the pump station assessments.
3. The Project Team will then develop a preliminary design (50% complete) for each location to be presented to and reviewed by the HCMA Engineering Department and Park Operational staff and will coordinate and participate in one design review meeting for discussion.
4. Comments received, upon acceptance, will be incorporated into the design and the design for each location will be finalized. The final design will include specifications and construction phasing and other requirements.
5. The Project Team will develop final design documents (90% complete), including an Engineer's Estimate of Probable Project Cost for each location to be presented to and reviewed by the HCMA Engineering Department and Park Operational staff and will coordinate and participate in a second design review meeting.
6. The Project Team will then finalize the design documents and submit them to the HCMA for their use in the procurement process.
7. The Project Team will also assist the HCMA Engineering Department during the procurement process, including an on-site pre-bid meeting with prospective bidders, responding to contractor questions, and reviewing bids received to providing the HCMA a recommendation for a contract award.
8. Upon contract award, the Project Team will assist the HCMA Engineering Department with coordination of a Pre-construction meeting with the contractor and will attend to provide technical support. The Project Team will also review submittals provided by the Contractor and provide comments regarding conformance to the project specifications.
9. The Project Team will provide construction oversight services during construction of the pump station improvements at the three locations and replacement of the Stoney Creek golf course irrigation system.
10. The Project Team will provide layout of the proposed equipment locations for the contractor to ensure the equipment is installed in accordance with the design.
11. As a tool to assist the HCMA Engineering Department with administration of the construction contract, HRC will build a project in BIM 360. BIM 360 is a document management website produced by Autodesk, Inc. In BIM 360, drawings, specifications, submittals, RFIs, meetings, and other construction activities and documents can be stored, tracked, and distributed.





PROJECT REFERENCES

≡ HRC – Plum Hollow Golf Course

- » In 2020, HRC was retained by Plum Hollow Country Club in the City of Southfield to assist with a comprehensive plan to reduce course flooding, improve the river through the course, and repair, replace, or remove a dam structure used to feed their primary irrigation pond. HRC recommended and implemented a design/build project to remove the dam, install a fish passage structure, disconnect the pond from the river, and install a feeder line upstream. This project created 4 acres of wetland flood storage area and restored over 3000 linear feet of stream. HRC prepared plans and specifications, assisted in regulatory permits, and provided construction administration for the structure removal and watershed stabilization on this project.

≡ HRC – Oakland County Parks & Recreation – Golf Course Improvements/Asset Management

- » Budget establishment and oversight of various golf course irrigation improvements at Glen, Lyon, Springfield, Red and White Lake Golf Courses, including pump station improvements and irrigation pond dredging.

≡ ICS – Atlanta Athletic Club – Johns Creek Georgia

- » Irrigation System Design for 36 holes of golf (18 done previously, 18 designed in 2020 and built in 2022); Construction Administration throughout construction of the irrigation system improvements; GPS Mapping of the entire site.

≡ ICS – Crosswinds Golf Club – Bowling Green, Kentucky

- » Irrigation System Design for 18 holes, including pump and well design for the system; construction is scheduled to begin in early 2023.

≡ ICS – Country Club of Landfall

- » Irrigation System design for 36 holes of golf, including pump station design for all systems; Construction Administration throughout system installation; GPS Mapping of the installed irrigation system.

≡ ICS – Mountain Air Country Club

- » Irrigation System design for 18 holes, including pump station design; Construction Administration throughout system installation; Currently beginning GPS Mapping phase of the project.

≡ ICS – True North Golf Club – Harbor Springs, Michigan

- » Provided review and inspection of the entire golf course system, including pump station, to determine a plan for future actions to renovate and upgrade the system.

C. MANAGEMENT SUMMARY, WORK PLAN & SCHEDULE

PROPOSED METHODOLOGY AND QUALITY

The Key Staff that will provide the necessary Professional Services under this contract have diverse backgrounds with a wealth of experience. The Project Team is prepared to provide quality architectural, engineering, and irrigation design services to meet the requirements of this project. The Architectural, Industrial Facilities Design, Site/Civil, Surveying, Structural, Electrical, and Mechanical departments at HRC would be involved in the applicable phases of the work as required to ensure a smooth and efficient design and construction process. HRC prides itself on being a multi-disciplinary firm under one roof, so that projects can be fully coordinated and designed with maximum efficiency, and information is not lost in translation to team members that are spread across many firms.

The Project Manager for this project and the main point of contact between the HCMA and HRC will be Patrick Haire, PE. Mr. Haire is a Senior Project Engineer at HRC with a considerable amount of experience managing complex design and construction projects. Services provided by HRC under this contract will be overseen by Mr. Haire, who will track the project schedule and budget, as well as the quality of service, to ensure the product delivered to the HCMA meets or exceeds expectations.

PROJECT APPROACH

To start the project off right, the Project Team will begin the project with a kick-off meeting with key HCMA staff, including the golf superintendents and Engineering staff. This meeting provides an opportunity for HRC to gather relevant background information, determine the desired project outcome, and gain a clear understanding of the project's scope, goals, and budgets. HRC's experience in this area provides an effective means to understand the Owner's objectives and priorities.

A project plan will then be developed that will include information that has been gathered so the project meets the goals of the HCMA. The project plan will include tasks and milestone dates that are essential to the successful completion of the project. These items are typically ones that have the largest impact on the project's schedule and cost, such as permitting, identifying major decision points, and any unique challenges. The Project Manager will then communicate this information to the appropriate HCMA personnel and provide periodic updates with the understood goals in mind. The Project Manager will include potential changes in scope, cost, or schedule in this communication. The Project Team's experience provides the ability to foresee potential issues, analyze the existing information effectively, and develop a project plan that will succeed.

DESIGN SERVICES

Studies and Communications

A visit to each project site will be scheduled in conjunction with the kick-off meeting. It would be desirable to have applicable personnel available for the site visit to discuss the project requirements and any relevant challenges associated with performance of the work. The site visit will allow the design team to gather field data needed to prepare the Construction Documents. The initial investigation of the site will focus on the feasibility of the project and any obstacles that may require special design considerations. Part of this initial investigation will also focus on the project organization, alternate ways to approach the project, and preliminary cost estimates for the proposed work.

The Project Team will analyze the information gained during the scoping of the project and will proceed with a preliminary design for the project. The Project Manager will constantly be involved in the design of the project and will be aware of major issues. This understanding will be relayed to the HCMA on a regular basis. The Project Manager will also be monitoring the progress of the project to identify potential issues or concerns that need to be addressed. Any potential issues will be identified and resolved in the contract documents. Our Project Team has a strong belief that, when issues are identified, they should be brought to the appropriate individual's attention as soon as possible with options for solutions and applicable costs.

Site Plans and Verification of Existing Site Conditions

The Project team will verify existing reference drawings are accurate as part of our initial investigation on a project. Depending upon the scope of the site work, additional topographic survey data will be gathered at the site to ensure an accurate design and minimize potential field problems during construction. Site plans will include information necessary for the described work. Elevations will be included to verify drainage to structures and coordinate with the existing features. Proposed grades will be coordinated with existing grades as necessary to provide a smooth transition from the construction to the existing adjacent areas. The Site Plan drawing will also include a plan that shows the overall property and a location map for convenience.

Drawings

Our CAD Technicians are trained in the current versions of the CAD software being used and in preparing architectural, mechanical, electrical and irrigation drawings to an appropriate scale. Drawings will include plans, elevations, sections, details, schedules and notes as applicable to fully describe the design for the prospective contractors to competitively bid the project and for a contractor to construct the project to meet the expectations of the HCMA. Work items will be specified on the drawings.

Our design effort will utilize design, drawings, specifications, and standards for mechanical and electrical components, as well as buildings and other structures that conform to the latest codes and standards of the authority having jurisdiction as applicable to the project. HRC works in both MicroStation and AutoCAD CAD software. HRC utilizes the latest version of the software and will provide the drawings in the format the HCMA needs to maintain their digital records.

Cost Estimates

The Project Team will provide detailed cost estimates as a way of understanding the ramifications of design decisions and to ensure the owner is accepting of said decisions, including line items for each item of work, quantities of each item, unit costs, and extensions of that cost. The amounts shown are normally subcontractor costs with general contractor overhead and profit shown as separate line items. We have had great success in our estimates reflecting current market conditions and accurately projecting project costs.

Final Design, Dimensioning and Detailing

The preparation of effective contract documents is critical to the successful construction and completion of a project. The Project Team will focus on not only including the appropriate designs, details, and specifications, but also on providing a clear understanding of what is intended. This allows the contractor and construction staff to better understand the project's goals and results in a more streamlined construction process. The Project Team's Final Design will be supported by statements of criteria, load factors, assumptions, and codes used in the design, diagrams and charts developed in connection with the design, and the appropriate computations. This information will be available to the HCMA upon request.

Our Project Team's experience, client updates and progressive design methods will provide a thorough and complete set of contract documents, including drawings and specifications. These will ensure the project will remain within scope, on schedule, and within budget. Having a consistent Project Manager communicating the designer's intent to the construction personnel has proven to be a successful method of improving cost effectiveness and developing solutions for unforeseen issues that arise in the field. Dimensions and detailing of the contract documents will be provided pursuant to our rigorous standards for providing clear and concise information on our drawings.

CONTRACT DOCUMENTS

The Project Team will provide the HCMA with hard copy and/or electronic versions of the Construction Documents for their inclusion in a Request for Proposal or an Invitation to Bid. These Construction Documents will include a Detailed Summary of the Work, Technical Specifications, and the Drawings. The specifications are organized with individual Sections to cover the particular materials and products necessary for the scope of work on the project, including the necessary editing tailored to the project. Our quality control/quality assurance process strives to eliminate ambiguities and constructability issues, including

relevant technical requirements and minimum standards in order to establish comparison criteria for “approved equal” products.

Our services will include providing responses to questions from bidders and, if necessary, providing addenda to clarify an issue. During design, a Pre-Bid meeting with the prospective bidders will be held, and a Bid Evaluation Meeting will be held after the receipt of bids.

MEETINGS

The Project Team will assist the HCMA with procurement of a contractor to perform the work and administration of the construction project through participation in meetings during these phases of the project. Meetings our Project Team will participate in will include, but may not be limited to, the following:

≡ Pre-Bid Meeting

The Project Team will participate in a Pre-Bid Meeting with HCMA staff and prospective bidders to allow bidders the opportunity to review each site and conditions that may affect the work. During that meeting, the Project Team members will advise bidders on technical matters associated with the project.

≡ Pre-Construction Meeting

Once a construction contract is awarded, the Project Team will participate in a Pre-Construction Meeting with HCMA staff and applicable representatives of the selected contractor and subcontractors. The purpose of this meeting is to coordinate construction activities and schedules to ensure the work is performed in a timely and efficient manner, including the potential of phasing the work to be completed, minimizing disruption to HCMA golf operations.

≡ Construction Progress Meetings

The Project Team will participate in Construction Progress Meetings on a regular basis to monitor the progress of the project and to ensure continued development of the project requirements. During these meetings, issues that may affect the project schedule or budget will be discussed so potential resolutions can be discussed, agreed upon, and implemented. It is anticipated that these meetings will occur at regular intervals as the project progresses.

The Project Manager will continue to be directly involved in major aspects of the project and will ensure the project is on schedule and any issues or concerns that arise during construction are addressed and communicated to the HCMA. They will continually discuss with the contractor upcoming work and schedules, from days to weeks in advance. While it is inevitable that issues or challenges will arise during construction, the Project Team prides itself on providing quick resolutions and having the staff to handle most situations. Whether it involves private utilities, permitting, environmental, geotechnical, scheduling, material, contractor requests for extras, or other situations, the Project Team has the staff and experience to resolve the most difficult of challenges. This ability will be a key tool to ensure the project remains on schedule and within the defined budget and scope. HRC also includes numerous personnel from construction observers to construction engineers that have proven records of assisting with the execution of a wide variety of construction projects.

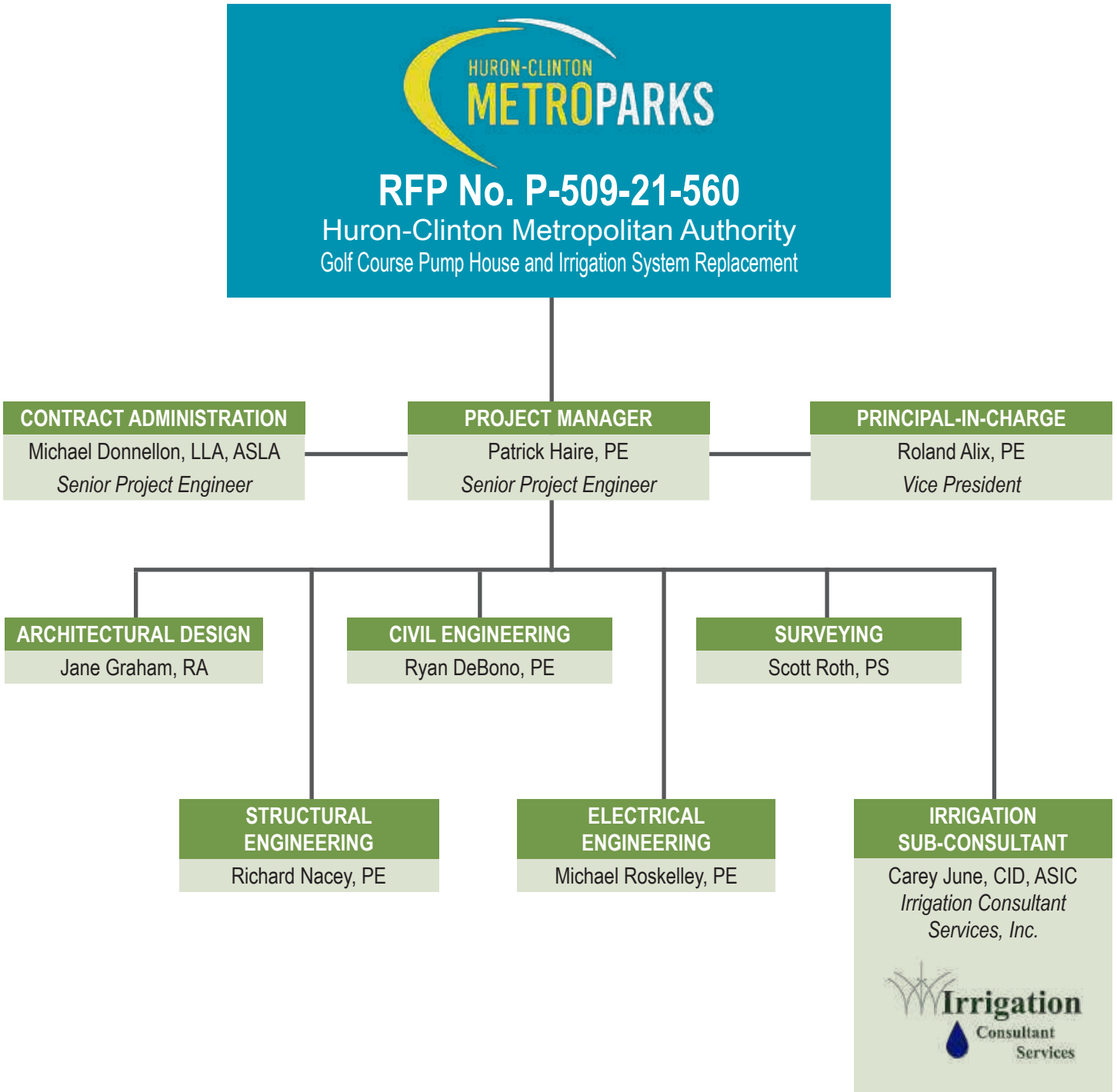
TIMELINE

A proposed timeline for completion of this assignment is provided below. This timeline is based the number of calendar days following receipt of a notice to proceed.

Project Kickoff Meeting	15 Days
Evaluation of Existing Conditions	40 Days
Present Existing Conditions & Recommendations to HCMA	60 Days
Development of Preliminary Designs & Presentation to HCMA	120 Days
Finalize & Submit Design Documents to HCMA	20 Days Following Receipt of Comments From HCMA

D. PERSONNEL

HRC has assembled an experienced Project Team of highly qualified professionals, technicians, and support staff to provide Architectural and Engineering services to the HCMA for completion of this assignment. HRC's policy is to have all projects assigned to a Principal of the firm. This ensures that each project will receive individual attention and have the direct interest of the firm. An organizational chart and professional resumes are included in this section.



PROJECT TEAM LEADS



Patrick Haire, PE

*HRC Project Manager
Senior Project Engineer*



Patrick Haire is a Senior Project Engineer with Hubbell, Roth & Clark, Inc. (HRC) in their Industrial Facility Design Department. He came to the firm in 2016 with a multitude of experience achieved through a stellar career spanning more than 30 years, working in the capacities of senior engineer, senior project manager, and program manager. He has extensive training and experience in environmental restoration, hazardous waste operations, emergency response, and environmental compliance. He also has extensive experience in site/civil engineering and design of fueling systems and other industrial applications.

Since joining HRC, Mr. Haire has been directly involved in a variety of assessment and design projects involving repair of, improvements to, or new installation of a variety of civil/site and industrial facilities. He is the main contact for HRC on a multi-year design service contract with the Suburban Mobility Authority for Regional Transportation (SMART). In this capacity, Mr. Haire is responsible for the management of the projects performed by HRC under this contract, including oversight of design concepts and completion of design and construction documents, as well as project budgets and schedules. As the design is completed and SMART solicits bids for the construction of these projects, Mr. Haire also has primary responsibility for assistance to SMART during the bidding process, construction contract administration, and construction oversight.

<p>WORK LOCATION</p> <p>555 Hulet Drive Bloomfield Hills, MI 48302</p>	<p>EDUCATION</p> <p>BS, Construction Engineering Lawrence Technological University</p> <p>EXPERIENCE</p> <p>With HRC since 2016 36 years of experience</p>	<p>PROFESSIONAL REGISTRATION/ CERTIFICATION</p> <p>Professional Engineer Michigan No. 36757</p> <p>Certified Underground Storage Tank Professional, Michigan</p>
---	--	---

PROFESSIONAL EXPERIENCE

INDUSTRIAL FACILITY IMPROVEMENTS

- Sanitary Sewer Repair Design – [General Motors Milford Proving Grounds](#)
- Design of Contractor Parking Lot Improvements and Stormwater Management – [General Motors Flint Paint Shop](#)
- Evaluation and Design of Sanitary Pump Station Improvements – [General Motors Milford Proving Grounds](#)
- Design and Contract Administration for Pavement and Site Improvements – [SMART](#)
- Fuel System Improvement Design and Contract Administration – [SMART](#)
- Design and Contract Administration for Vehicle Inspection Pit Improvements – [SMART](#)
- Design and Contract Administration for Replacement of Vehicle Washing Systems – [SMART](#)
- Contract Administration for Electric Vehicle Charging Station – [SMART](#)
- Contract Administration for Underground Storage Tank Environmental Investigations – [SMART](#)
- Design and Contract Administration for Controlled Environment Space for Use of Bus Driving Simulators – [SMART](#)
- Design and Contract Administration for Pavement Reconstruction and Site Improvements – [Lake Erie Transit Center](#)
- Contract Administration for Transfer Station Construction at Monroe City Hall – [Lake Erie Transit Center](#)



Mr. Donnellon recently joined HRC with over 30 years' experience in asset management of facilities, design, and planning, including capital improvement project identification, budgeting, and implementation. He is a skilled project manager, able to analyze the size and scope of projects and determine the expenditure in manpower and funding necessary for project execution. He is well versed in strategic planning, design, and construction relating to preservation and renovation of parks, buildings, trails, landscapes, natural areas, and related recreational facilities and infrastructure. He served as the Chief of Park Facilities Maintenance and Development for Oakland County Parks & Recreation from 2008-2022, and as their Architectural Engineer from 1996-2008. He joined the County with several years of experience in the residential and commercial landscape design and design-build industries.

EDUCATION

Bachelor of Landscape Architecture
Michigan State University

Associate of Liberal Arts,
Oakland Community College

EXPERIENCE

With HRC less than 1 year
31 years of experience

**PROFESSIONAL
REGISTRATION/ CERTIFICATION**

Registered Landscape Architect, State of
Michigan (RLA#1265)

AFFILIATIONS

Groveland Township
Board of Zoning Appeals

Knights of Columbus
(1st—4th Degree)

Member, American Society of
Landscape Architecture

PROFESSIONAL EXPERIENCE

PARKS AND RECREATION

Golf Courses

- Irrigation Replacement – [Glen Oaks Golf Course, Farmington Hills](#)
- Irrigation Pond Dredging – [Glen Oaks Golf Course, Farmington Hills](#)
- Golf Maintenance Building Addition, - [Glen Oaks Golf Course, Farmington Hills](#)
- Golf Maintenance Building Roof Replacement – [Glen Oaks Golf Course, Farmington Hills](#)
- Park & Golf Course Development – [Lyon Oaks, Lyon Township](#)
- Golf Maintenance Building Addition, – [Lyon Oaks Golf Course, Farmington Hills](#)
- Front & Back Nine Golf Restrooms & Site Improvements – [Lyon Oaks, Lyon Township](#)
- Golf Course & Park Redevelopment – [Red Oaks, City of Madison Heights](#)
- Clubhouse Roof Replacement – [Springfield Oaks, Davisburg](#)
- Clubhouse & Conference Center Replacement & Site Improvements – [White Lake Oaks, White Lake Township](#)
- Irrigation Replacement – [White Lake Oaks, White Lake Township](#)
- Golf & Conference Center Parking Lot & Storm System Replacement – [Glen Oaks, Farmington Hills](#)
- Cart Path Replacement & Installation – [Glen Oaks Golf Course, Farmington Hills](#)

- Cart Path Replacement & Installation – White Lake Oaks Golf Course, White Lake Township
- Cart Path Replacement & Installation – Springfield Oaks Golf Course, Davisburg
- Cart Bridge Replacement – Glen Oaks Golf Course, Farmington Hills
- Maintenance Yard Paving Replacement – Glen Oaks Golf Course, Farmington Hills
- Golf Netting Replacement – Red Oaks Golf Course, Madison Heights
- Underground Fuel Tank Removal & Site Remediation – Springfield Oaks Golf Course, Davisburg
- Culvert & Drainage Replacements – Springfield Oaks Golf Course, Davisburg
- Culvert & Drainage Replacements – White Lake Oaks Golf Course, White Lake Township
- Well Replacement – Springfield Oaks Golf Course, Davisburg
- Front & Back Nine Restroom & Site Improvements – Springfield Oaks Golf Course, Davisburg
- Front & Back Nine Restroom & Site Improvements – White Lake Oaks Golf Course, White Lake Township
- South Parking Lot Replacement – White Lake Oaks Golf Course, White Lake Township
- Golf Netting Installation – White Lake Oaks Golf Course, White Lake Township
- Clubhouse & Site Replacement – Red Oaks Golf Course, Madison Heights
- Golf Bag Drop & Entrance Improvements – Glen Oaks Golf Course, Farmington Hills
- Pro-shop/Grill Room Renovation – Glen Oaks, Farmington Hills



Hubbell, Roth & Clark’s Senior Associate, Jane Graham, is an architect in the Industrial Facility Design department. She is directly involved in all phases of professional client services including schematic design, preparation of construction documents, bidding, construction project management, construction observation, and project close-out.

Ms. Graham has an extensive background in design, project and facility management, with experience in industrial, commercial tenant fit-up, historical renovation and recreational park facility work. She also manages most of HRC’s building mechanical (HVAC) engineering related projects.

Ms. Graham also worked as an Owner’s Representative for General Motors LLC, and formerly BEHR America (now MAHLE) overseeing office and manufacturing plant maintenance and renovations exceeding 1.8 million square feet. Ms. Graham also served as the Simon Property Group’s Operations Director for Coconut Point Mall in southwest Florida, managing daily maintenance and upgrades for the 1.6 million square feet outdoor lifestyle center.

<p>EDUCATION</p> <p>BS, Architecture University of Detroit, 1989</p> <p>EXPERIENCE</p> <p>34 years of experience, 31 years with HRC</p>	<p>PROFESSIONAL REGISTRATION/ CERTIFICATION</p> <p>Registered Architect Michigan No. 39345</p> <p>Registered Architect Florida No. 95185</p> <p>National Council of Registration Boards (NCARB) Certified</p> <p>Construction Specification Institute (CSI) Construction Document Technology Certification (CDT)</p>	<p>AFFILIATIONS</p> <p>National Fire Protection Agency (NFPA)</p>
---	---	--

PROFESSIONAL EXPERIENCE

MUNICIPAL FACILITIES

- Waterford PVR Electric Shop – [Road Commission for Oakland County](#)
- New HQ Office and Traffic Operations Center – [Road Commission for Oakland County](#)
- Davisburg Garage Reconstruction – [Road Commission for Oakland County](#)
- Office Building Roof Replacement and Structural Repairs – [Road Commission for Oakland County](#)
- Building Assessments – [Wayne County](#)
- 50th District Court Judicial District Facility Evaluation Study – [City of Pontiac](#)

PARKS AND RECREATION

- Amphitheater Band Shell – [City of Cedar Springs](#)

AIRPORTS AND TRANSPORTATION FACILITIES

- City of Monroe Transit Waiting Area – [Lake Erie Transit Authority](#)
- Central Campus Transit Center – [University of Michigan](#)

- Troy Multi Modal Transit Facility – [City of Troy](#)
- SMART HVAC Building/Terminal Assessments (Wayne, Oakland, Macomb Facilities) – [Suburban Mobility for Regional Transportation](#)
- SMART Macomb Terminal, East Wall Assessment – [Suburban Mobility for Regional Transportation](#)
- Forensic Design, Engineering and Related Services for the Repairs and Maintenance of Existing Facilities, Detroit Metropolitan and Willow Run Airports – [Wayne County Airport Authority](#)

TRAFFIC ENGINEERING/INTELLIGENT TRANSPORTATION SYSTEMS

- New Traffic Operations Center – [Road Commission for Oakland County](#)
- City of Grand Rapids Traffic Management Center (TMC) – [Iteris](#)
- “FAST-TRAC” Traffic Operations Center Project – [Road Commission for Oakland County](#)
- Design/Build Traffic Operations Center – [Road Commission of Macomb County](#)

INDUSTRIAL FACILITIES

- Milford Proving Ground, B40 Interior Office Build-Out – [General Motors LLC](#)
- Milford Proving Ground, B23 Vestibule Addition/Live Wall Design – [General Motors LLC](#)
- Milford Proving Ground, B104 Vestibule Addition – [General Motors LLC](#)
- Customer Care and Aftersales (CCA) Michigan Roof Condition Assessments – [General Motors LLC](#)
- Detroit-Hamtramck Plant Infrared Roof Scan Survey – [General Motors LLC](#)
- Building 73 Air Flow Imbalance Investigation and H&V Replacement – [General Motors LLC](#)
- Building 42 Fuel Station Replacement – [General Motors LLC](#)
- Warren Technical Center, AEC Fuel Demolition & CNG Relocation – [General Motors LLC](#)
- Milford Proving Ground, Hydrogen Fueling Station – [General Motors LLC](#)
- Milford Proving Ground, Site Wide Crane and Hoist End Stop Assessment – [General Motors LLC](#)
- Milford Proving Ground, Maintenance Access Platform Safety Improvements – [General Motors LLC](#)
- Warren Technical Center, Flood Study – [General Motors LLC](#)
- Building (Office/Lab) Modifications – [MAHLE Industries North America](#)
- Jefferson North Assembly Plant, Secondary Containment Upgrades – [Fiat Chrysler Automobiles](#)
- Milford Proving Ground, Building 70 UST Removal – [General Motors LLC](#)
- Warren Technical Center, VEC and Fuel Blend Building UST Removals – [General Motors LLC](#)
- State-Wide AST Survey and Upgrade Program – [General Motors LLC](#)
- Pontiac North Stormwater Detention and Treatment Facility – [General Motors LLC](#)
- GM Pontiac GPS Penthouse G Chiller Replacement – [General Motors LLC](#)

WATER TREATMENT/DISTRIBUTION

- East Lansing-Meridian Water Plant – Filter Addition– [East Lansing – Meridian Water & Sewer Authority](#)
- East Lansing-Meridian Water Plant – HVAC Improvements (Phase 1 through 3)– [East Lansing – Meridian Water & Sewer Authority](#)
- Allegan Water Treatment Plant – [City of Allegan/Prein & Newhof](#)



Carey June – CID, ASIC

Background	Carey has been with Irrigation Consultant Services since 1998. Carey’s role with Irrigation Consultant Services is project management, consultation, and design. Carey has worked on commercial, institutional, residential and golf course projects through the United States and internationally. The advancement of irrigation water resource development and LEED accredited projects have pushed Irrigation Consultant Services’ techniques for irrigation design and consultation to the forefront of our field. Irrigation Consultant Services was awarded the American Society of Irrigation Consultants highest award (Honor Award) for our work in golf on the Cauley Creek Water Reclamation Plant, Belmont Golf Club – Bermuda, and landscape irrigation on The Sprint World Headquarters projects.
Education	College: University of Michigan (BA Sports Management and Communications) 1995 University of Georgia (Masters in Landscape Architecture) 1999
Summary of Qualifications	Currently Certified by the Irrigation Association (IA) in both Golf and Commercial Design
Professional Memberships	American Society of Irrigation Consultants (ASIC) – Currently Vice President of organization American Society of Landscape Architects (ASLA)
Project References	Atlanta Athletic Club – Johns Creek, Georgia Capital City Club – Crabapple, Georgia Country Club of Landfall – Wrightsville Beach, NC TPC Four Seasons, Las Colinas – Dallas, TX Piedmont Driving Club – Atlanta, Georgia Crosswinds Golf Club – Bowling Green, Kentucky Mountain Air Country Club – Burnsville, North Carolina US Capital Visitor Center – Washington, DC Atlanta International Airport – Hapeville, Georgia Lake Nona Development – Orlando, Florida Atlanta Botanical Gardens – Atlanta, Georgia JB Williams Park – Gwinnett County, Georgia Nickajack Park – Cobb County, Georgia Rabbit Hill Park – Gwinnett County, Georgia Lanierland Park, Phase I – Forsyth County, Georgia Homestead Air Reserve Park – Miami-Dade County, Florida Bank of America Stadium – Charlotte, North Carolina East Cobb Sports Complex – Cobb County, Georgia

PROJECT TEAM SUPPORT

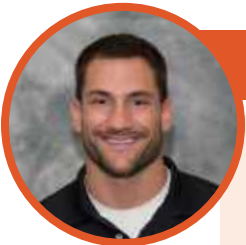


ROLAND ALIX PE - **Principal-in-Charge/Vice President**

Mr. Alix will serve as **Principal-in-Charge**. He is an integral participant on projects for many of the firm's public and private clients inclusive of industrial and manufacturing. He has extensive experience administering the design and construction of various project types including road and bridge rehabilitations, municipal utility relocation, site development, manufacturing building modifications, shipping/distribution facilities, spill containment, and aboveground and underground storage tanks.

Mr. Alix has participated on and managed a wide array of new facility and renovation projects involving vehicle traffic and flow studies, parking lots, storm, sanitary and process sewer projects, pump stations, waste treatment plants, roof assessments, site security lighting, generators and HVAC building improvements.

Mr. Alix's professional expertise includes a vast number of past and current general engineering and infrastructure improvement projects for many local municipalities, as well as Oakland County Parks & Recreation, Michigan Department of Technology, Management and Budget (DTMB) and private manufacturing and waste-handling clients.



RYAN DEBONO, PE

Mr. DeBono, PE, is a **Project Engineer** at HRC. He is part of the Industrial Facilities Design team since 2015 where he is responsible for site civil features including underground utility design, process piping, site grading, surface modeling, site access and roadway geometry design. He has also been involved in the design and construction of several large scale projects including; iron filtration plants, sanitary, storm and domestic water storage facilities and pump stations, cooling water towers, oil/water separators and automotive test track irrigation systems. Mr. DeBono is proficient in AutoCAD Civil 3D and BIM 3D modeling software integration with products such as Navisworks, Leica CloudWorx, and Leica JetStream.



MICHAEL ROSKELLEY, PE

Michael Roskelley, PE, is a **Project Engineer** and has been with Hubbell, Roth & Clark, Inc. since 2014. His responsibilities include project design and development of project specifications, with a focus on power systems, instrumentation, shop drawing review and CAD design work. He also has experience in lighting design and construction administration.



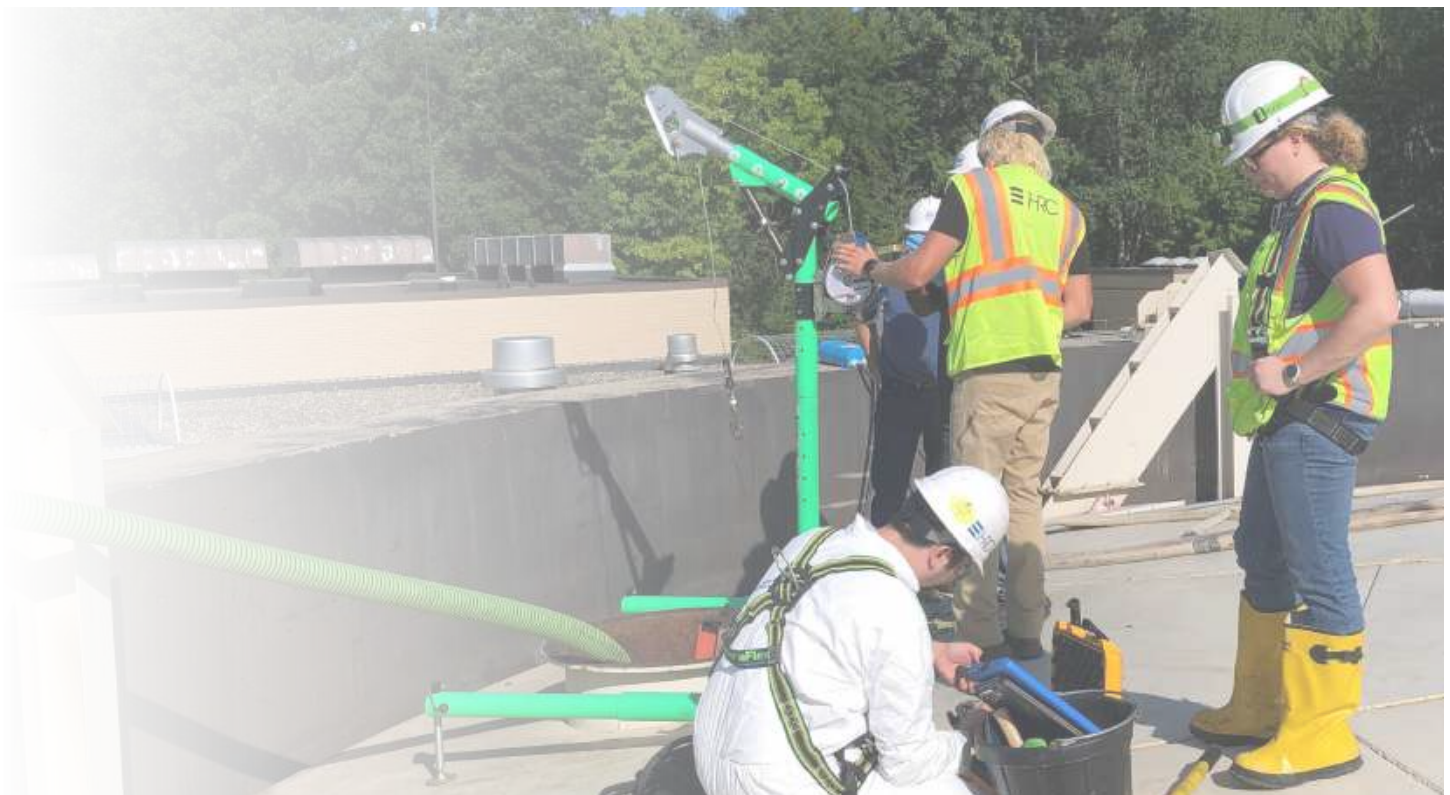
RICHARD NACEY, PE

Mr. Nacey is the **Structural Department Manager** with Hubbell, Roth & Clark, Inc. He has a passion for design and innovation and is familiar with multiple materials and leading construction methods. This professional insight provides him with the ability to develop and evaluate options and implement solutions. Through evaluation, he identifies the strengths and weaknesses of alternative solutions, conclusions, or approaches to potential project obstacles and for recommendations for remedial rehabilitation. He works in collaboration with multidiscipline teams to evaluate project challenges and identify design opportunities and an efficient final design. Mr. Nacey oversees structural engineering and preparation of contract structural design documents for HRC.



SCOTT ROTH, PS

Mr. Roth, PS, is a **Surveying Manager** with HRC. He has 14 years of experience as a professional surveyor on public and private infrastructure projects. Mr. Roth is a key participant in project requirements that include industrial site survey control networks, boundary surveys, 3D laser scanning with point cloud modeling, right of way acquisition, GNSS technology, GIS data collection and geodatabase development, route, and construction surveying, radial topographic mapping, horizontal and vertical control surveys, State Plane and UTM coordinate use, and various datum and computations. His experience also includes asset management, infrared forensic engineering, ADA compliance assessments, industrial infrared building envelope integrity surveys, research, and computer-aided drafting.



E. BUDGET REVIEW

Throughout the Project Execution as listed in **Section B**, the Project Team will be continuously evaluating the project budget against the identified HCMA budget for cost efficiencies within the various design program elements. At the time of submittal, the Project Team was unable to verify the project budgets within the FY2022 HCMA Operational/Capital Improvement Budget as listed on the HCMA website. Therefore, the Project Team is unable to provide an opinion on the HCMA's current project budget for adequacy and recommendations.



F. REFERENCES

The Project Team has performed numerous projects similar in scope to that outlined in this RFP. Upon request, references for the projects listed on Page 6 can be provided. Below are references for golf course irrigation system design services performed by Irrigation Consultant Services, Inc.

HRC is currently serving 195 clients. These clients include public and private entities throughout Michigan, including commercial, industrial, and institutional organizations. HRC performs thousands of projects per year throughout the State of Michigan, utilizing its 286 employees.

Contact: Lukas Harvey
Title: Director of Agronomy, Atlanta Athletic Club
Location: Johns Creek, GA
Phone: 517-248-0895

Contact: Jeff Mack
Title: Director of Golf, Country Club of Landfall
Location: Wrightsville Beach, NC
Phone: 910-297-8355

Contact: Anthony Williams
Title: Director of Golf, TPC Four Seasons Las Colinas
Location: Dallas, TX
Phone: 770-654-9176

Contact: Scott Slep
Title: Director of Golf, The Piedmont Driving Club
Location: Atlanta, GA
Phone: 770-853-8260



Office Locations



Bloomfield Hills

555 Hulet Drive
Bloomfield Hills, MI 48302
248-454-6300 | Fax: 248.454-6312



Delhi Township

2101 Aurelius Road, Suite 2
Holt, MI 48842
517-694-7760



Detroit

Buhl Building, Suite 1650
535 Griswold Street | Detroit, MI 48226
313-965-3330



Grand Rapids

1925 Breton Rd SE, Suite 100
Grand Rapids, MI 49506
616-454-4286



Howell

105 West Grand River Ave.
Howell, MI 48843
517-552-9199



Jackson

401 S. Mechanic Street, Suite B
Jackson, MI 49201
517-292-1295



Kalamazoo

834 King Highway, Suite 107
Kalamazoo, MI 49001
269-665-2005



Traverse City

1501 Cass Street
Traverse City, MI 49684
231-714-5007



Troy

629 E Elmwood
Troy, MI 48083
248-454-6300



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

ENGINEERING. ENVIRONMENT. EXCELLENCE.

248-454-6300

hrcengr.com



**HURON CLINTON METROPOLITAN AUTHORITY
 REQUEST FOR PROPOSAL STANDARD COST FORM**

(TO BE SUBMITTED WITH PROPOSAL PART II)

PROJECT TITLE: Golf Course Irr. Repairs/Replacement
 PARK NAME: Stony Creek, Willow, Indian Springs
 P-509-21-560
 DUE DATE: September 12,2022

Hubbell, Roth & Clark, Inc.
555 Hulet Drive
Bloomfield Hills, MI 48302
Part II Price Proposal

PROJECT PHASE	ESTIMATED HOURS	ESTIMATED COST
Site Investigation, Data Collection	12	1,000.00
Topographic Surveys	40	4,900.00
Project Development		
50% Completion	366	46,000.00
90% Completion	212	26,000.00
100% Completion	52	6,600.00
Miscellaneous		
- Project Management and Meetings	32	5,400.00
- Engineer's Estimate of Probable Project Cost	41	5,300.00
- Sub-Consultant Services		50,500.00
Additional Phases/Task As Proposed		
- Bidding Assistance Services	39	6,500.00
- Contractor Bid Review and Award Recommendation	3	500.00
- Submittal Review	96	12,200.00
- Construction Observation - This cost assumes a 16-week construction duration. If construction exceeds 16 weeks, additional fees would apply.	311	34,200.00
- Construction Layout	86	10,900.00
- Construction Administration and As-Building Drawings	110	11,400.00

Include estimated hours for all work performed except provided by subconsultant as lump sum.

Proposal Cost (Not to Exceed)
221,400.00



HURON-CLINTON metroparks

Administrative Office | 13000 High Ridge Drive | Brighton, MI 48114-9058
1-800-477-2757 • www.metroparks.com

HURON CLINTON METROPOLITAN AUTHORITY REQUEST FOR PROPOSAL STANDARD COST FORM (SUBCONSULTANT INFORMATION)

Subconsultant:	Irrigation Consultant Services, Inc.
Discipline:	Irrigation System Design
Contact Information:	
Carey June, CID, ASIC	Office: (770) 929-0884
2129 Greensboro Road, Madison, GA 30650	Fax: (248) 651-9890
715 Ludlow Avenue, Rochester, MI 48307	Direct: (248) 651-8990
	Cell: (678) 294-9648
	Email: cjune@irrcons.com
Subconsultant:	
Discipline:	
Contact Information:	

Hubbell, Roth & Clark, Inc.

2022 Hourly Rate Schedule

Prepared for:

Huron Clinton Metropolitan Authority (HCMA)
Golf Course Pump and Irrigation Replacement

<u>Category</u>	<u>Billable Rates</u>	
Principal	150.00	- 206.00
Sr. Associate/Managing Engineer	168.00	- 206.00
Associate/Managing Engineer	134.00	- 172.00
Manager	119.00	- 168.00
Supervisor	104.00	- 144.00
Sr. Project Engineer/Architect/Surveyor	135.00	- 167.00
Project Engineer/Architect/Surveyor	113.00	- 150.00
Staff Engineer/Architect/Surveyor	108.00	- 114.00
Senior Project Analyst	128.00	- 149.00
Project Analyst	102.00	- 115.00
Staff Analyst	99.00	- 106.00
Graduate Engineer/Architect I/II	78.00	- 110.00
Technical Specialist	111.00	- 152.00
Sr Designer	128.00	- 137.00
Designer	120.00	- 132.00
Cadd Technician	60.00	- 121.00
Sr. Survey Office Technician	112.00	- 112.00
Survey Party Chief	87.00	- 127.00
Survey - Field Technician	65.00	- 69.00
Project Representatives	104.00	- 147.00
Sr. Construction Observer	75.00	- 102.00
Construction Observer I/II	59.00	- 83.00
Construction - Office Technician	75.00	- 84.00
Testing Coordinator	89.00	- 89.00
Testing Technician	60.00	- 76.00
Administrative Support**	60.00	- 133.00

Rates will remain firm for years 2022,2023 and 2024

Billable rates for Hubbell, Roth & Clark, Inc. include Unemployment and Payroll taxes, contributions for Social Security, Retirement benefits, Medical and Life insurance benefits, normal printing cost, telephones, fax, computer time, mileage, other overhead costs and profit.

** This Category includes Computer, Reproduction and Administrative Staff.





To: Board of Commissioners
From: Mike Henkel, Chief of Engineering Services
Project No: 712-22-142
Project Title: Bids – Wave Pool Plaza Concrete Repairs
Project Type: Major Maintenance
Location: Lake Erie Metropark
Date: October 7, 2022

Bids Received: July 28, 2022

Action Requested: Motion to Approve

That the Board of Commissioners (1) award Contract No. 712-22-142 to the low responsive, responsible bidder, Grit Services, Inc. for \$118,492; and (2) authorize the transfer of \$61,323 from the Fund Balance to cover the cost of the project as recommended by Chief of Engineering Services Mike Henkel and staff.

Fiscal Impact: The originally approved bid was for \$61,474. In December 2021, one payment was made to the contractor for \$3,111.30, leaving a remaining project balance of \$57,169.

Two bids were received, and both bidders received a 2 percent discount for a living wage. The second bidder, Grit Services, is a local vendor; the low bidder is not. The low bid is \$118,492. Grit Services bid is \$119,700 and is within 5 percent of the lowest bid but not more than \$5,000 of the low bid.

Per policy, If the bids are over \$25,000, and the second bidder is a local vendor, they have the option to complete the work at the low bidder's price and be awarded the contract. The DEI and living wage discounts do not change the bid cost of the project and are for comparison only. However, the local vendor match option does change the awarded cost. The contract award cost would be \$118,492; Grit Services has agreed to match the low bid cost.

Scope of Work: The work includes up to 517 square yards of concrete removal, replacement, and site restoration. This contract will finish this original work

Background: The Board approved contract 712-21-136 at the October 14, 2021 meeting to replace concrete walkways around the Lake Erie pool complex. This work was started but not finished by the original contractor. This contract would facilitate the completion of work.

Repeated attempts to contact the original contractor since the spring have been unsuccessful, and the surety is no longer in business. Currently, equipment and barricades are still on site. The original contract has been terminated, and staff is continuing to work with legal counsel to try and remedy what can be done with the existing abandoned equipment. Staff would like to complete the work before the end of the year.

<u>Contractor</u>	<u>City</u>	<u>Total</u>
Smith's Waterproofing LLC	Almont	\$118,492.00
Grit Services	Wixom	\$119,700.00
- Match Price Local Vendor		\$118,492.00
 Budget Amount for Contract Services		
- Remaining Project Balance		\$ 57,169.00
- Fund Balance		<u>\$ 61,323.00</u>
o Total		\$118,492.00
 Work Order Amount		
- Contract Amount- Grit Services		\$118,492.00
- Contract Administration		<u>\$ 20,000.00</u>
o Total Proposed Work Order Amount (Rounded)		\$138,492.00

This project was reported and publicly advertised in the following construction reporting outlets: MITN, Construction Association of Michigan, Construction Connect, Construction Market Data, Dodge Data & Analytics, Washtenaw Contractors Association, Construction News Corporation, Construction News Service, Construction Journal, HCMA Website.



To: Board of Commissioners
From: Chief of Engineering Services, Mike Henkel
Subject: Approval – Washington Township Water Main Easement
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners approve the water main easement for Washington Township as recommended by Chief of Engineering Services Mike Henkel and staff.

Fiscal Impact: Long-term savings to decommission the existing water well pump station at Snell Road.

Background: Washington Township and the Metroparks have been working jointly to address the Township's project to extend their water service.

The Metroparks approached Washington Township a few years ago to inquire and express our interest in connecting the park's west side to the Township's municipal water service. At that time, they did not have any plans for extending their infrastructure and the Metroparks would have had to pay for the total cost of the extension, which was cost prohibitive.

The Metroparks inquiry was due to ongoing repairs to the park's aging Snell Road water well pump station, which was drilled in 1963, and the existing distribution waterlines that feed the west side of the park. Metroparks staff was looking to start aligning any options to plan a future course of action to address the issues.

Historically, Stony Creek has been challenging to find areas conducive to drilling new wells that can produce the required water demands needed to support park facilities. This has been a limiting factor for park development and associated amenities. Water quality has also been an issue due to the high iron content in the water from pump station wells; high iron content adds to the maintenance of park facilities. The easements will allow the construction of the new water main for township residents and the Metroparks.

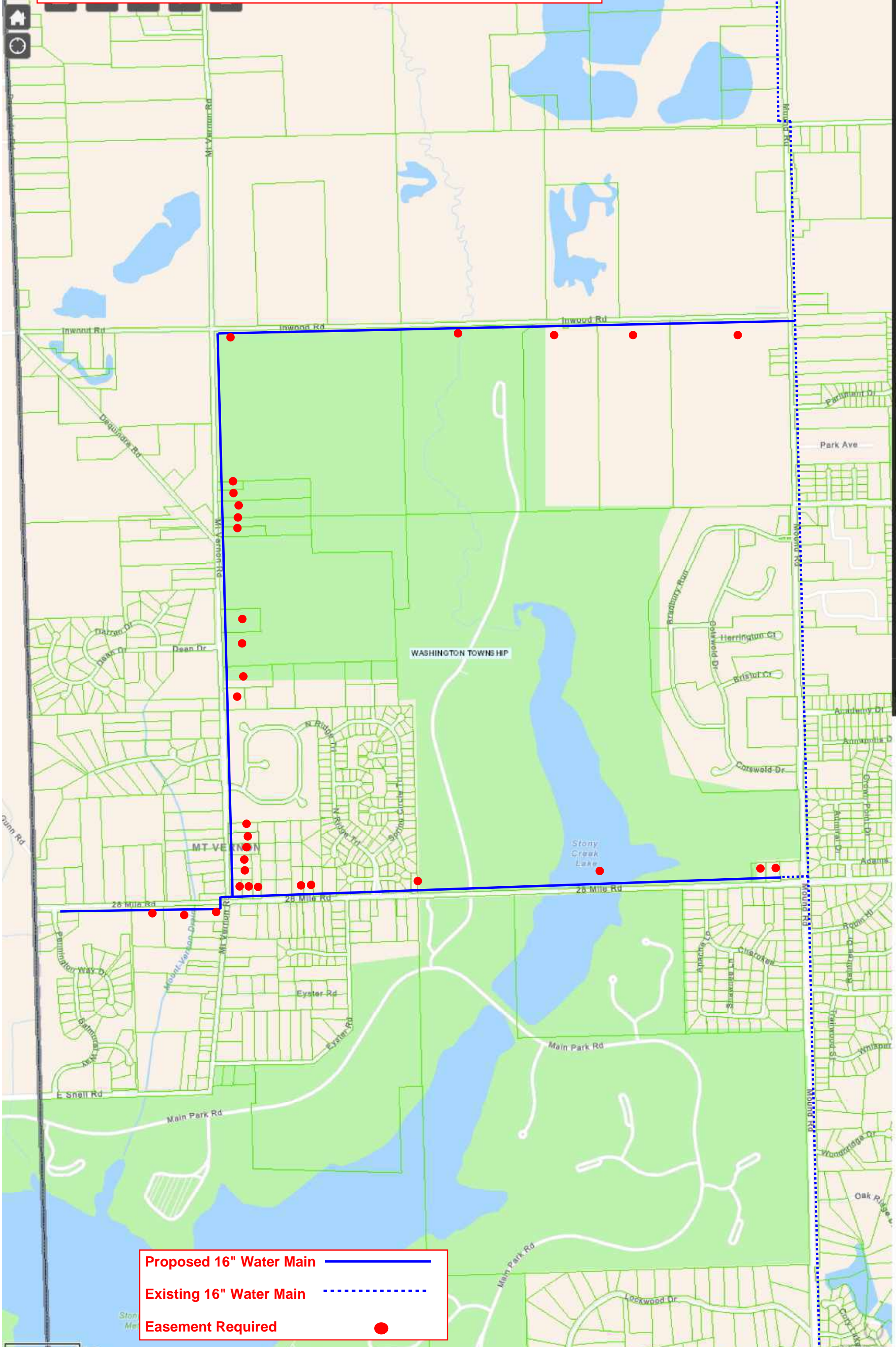
In addition to providing access to the municipal water supply, both will gain access to fire suppression capabilities. The park's east side is connected to Shelby Township and has no issues.

The easements have been reviewed by legal counsel.

**Attachments: 28 Mile Road Water Main Loop Easement Map
Water Main Easements (Three)**

28 Mile Road Water Main Extension

9-D-3-a



Proposed 16" Water Main ————

Existing 16" Water Main - - - - -

Easement Required ●

WATER MAIN EASEMENT AGREEMENT

THIS **WATER MAIN EASEMENT AGREEMENT** (“Agreement”) is made and entered into this **10th** day of **November**, 2022, between Huron-Clinton Metro Authority, a Michigan public body corporate organized and operating under the provisions of Act No. 147 of 1939, as amended, whose address is 13000 High Ridge Dr., Brighton, MI 48116 (“Grantor”) and the Charter Township of Washington, a Michigan municipal corporation whose address is 57900 Van Dyke Avenue, Washington Township, MI 48094 (“Grantee”).

WITNESSETH:

WHEREAS, Grantor is the owner of certain real property located at Park Rd. Stony Creek, Washington Township, MI which is legally described in Exhibit “A” attached hereto, and incorporated herein by reference (“Property”); and

WHEREAS, Grantee desires to acquire from Grantor certain rights to the Property in order to construct, operate, maintain, repair and/or replace a public water main (“Water Main”).

IT IS THEREFORE AGREED:

1. **Grant of Easement.** In consideration of the sum of One (\$1.00) Dollar and for other good and valuable consideration, the receipt of which is hereby acknowledged, Grantor grants to Grantee a non-exclusive permanent easement for the construction, installation, repair, maintenance and replacement of a public Water Main and ancillary improvements and a temporary construction easement for construction over, under and across the Property as hereinafter described (the “Easement”).

2. **Purpose of Easement.** The Easement shall be used only for the construction, installation, repair, maintenance and replacement of the Water Main and no other purpose.

3. **Location and Description of Easement.** The location and legal description of the Easement granted by this Agreement is set forth and depicted in Exhibit “A” (“Easement Area”).

4. **Construction, Operation, Maintenance, Repair and Replacement.** The construction, operation, maintenance, repair and replacement of the Water Main shall be at the sole cost and expense of Grantee. Grantee shall keep and maintain the Water Main and related appurtenances upon the Easement Area in good repair and operation at Grantee’s expense. During all aspects of any work performed on the Property, Grantee also covenants and agrees to do the following:

- (a) Restore the Easement Area to a similar condition which existed prior to the installation of the public Water Main with the exception of any permanent structures erected in violation of this Agreement;
- (b) Backfill and restore all driveways and sidewalk areas located on the Property and disturbed by virtue of the construction, maintenance, repairs, replacement or any such work performed by Grantee;
- (c) Provide Grantor with continued access for ingress and egress over, under, through and across the Easement Area;
- (d) Once commenced by Grantee, any work permitted hereunder shall be diligently pursued to completion with all restoration obligations satisfied, and all such work shall be completed by Grantee in a lien free manner.

(e) Provide Grantor with continued access to the Property.

5. Indemnification. Grantee shall be solely responsible for and shall indemnify, defend, and hold harmless Grantor from and against any and all liabilities, costs, damages, and/or claims, including without limitation reasonable attorneys' fees and litigation costs, incurred by or asserted against Grantor arising from or relating to the Easement, the Water Main, the exercise of any of Grantee's rights hereunder, or the construction, operation and/or maintenance of Grantee's facilities located in the Easement Area.

6. Placement of Structures. Grantor agrees not to build or to convey to others permission to build any permanent structures on, over, across, in, through or under the Easement Area, except that, subject to Grantee's approval, Grantor may construct and/or install surface improvements on the Property, including paved driveways, roadways, parking lots and/or walkways. Grantor may also install minor landscaping plantings, shrubs and bushes, utilities and/or similar improvements which improvements do not interfere with Grantee's use, operation and/or maintenance of the Water Main in the Easement Area. Temporary non-use or limited use of the Easement by Grantee shall not prevent Grantee from making use of the Easement to the fullest extent authorized by law.

7. Assignment. Grantee may assign this Agreement to any other municipality or county agency for Water Main purposes only.

8. Continued Utilization of Water Wells. Grantee acknowledges that Grantor currently utilizes a water well for purposes of accessing potable water to service the Property. Grantee shall not require Grantor or Grantor's successors and assigns to connect to the Water Main subsequent to installation of the improvements so long as Grantor's water well complies with all requirements of the Macomb County Department of Health.

9. Covenants to Run with Land. The covenants contained in this Agreement shall run with the land and shall be binding upon the parties and their respective representatives and successors.

10. Entire Agreement. This Agreement contains the entire agreement between the parties relating to the rights herein granted and the obligations herein assumed. Any oral representations or modifications concerning this Agreement shall be of no force and effect. Any modification of this Agreement must be in writing and signed by Grantor and Grantee, or their respective successors or assigns.

This easement is exempt from transfers taxes pursuant to MCL 207.505(a) and MCL 207.526(a).

IN WITNESS WHEREOF, the parties hereto have executed this Water Main Easement Agreement as of the day and year first written above.

GRANTOR

Huron-Clinton Metropolitan Authority,
a Michigan public body corporate organized
and operating under the provisions of Act No.
147 of 1939 as amended

By: _____

Name: Amy McMillan

Title: Director

STATE OF MICHIGAN }
 }ss.
COUNTY OF _____ }

The foregoing instrument was acknowledged before me this ____
day of _____, 2022,

_____, who acknowledged him/herself to be the _____ of Huron-Clinton Metropolitan Authority, a Michigan public body corporate organized under the provisions of Act No. 147 of 1939, as amended, and that he/she, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

Print Name:

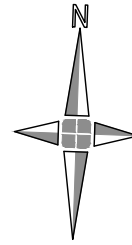
Notary Public

, _____ County, Michigan

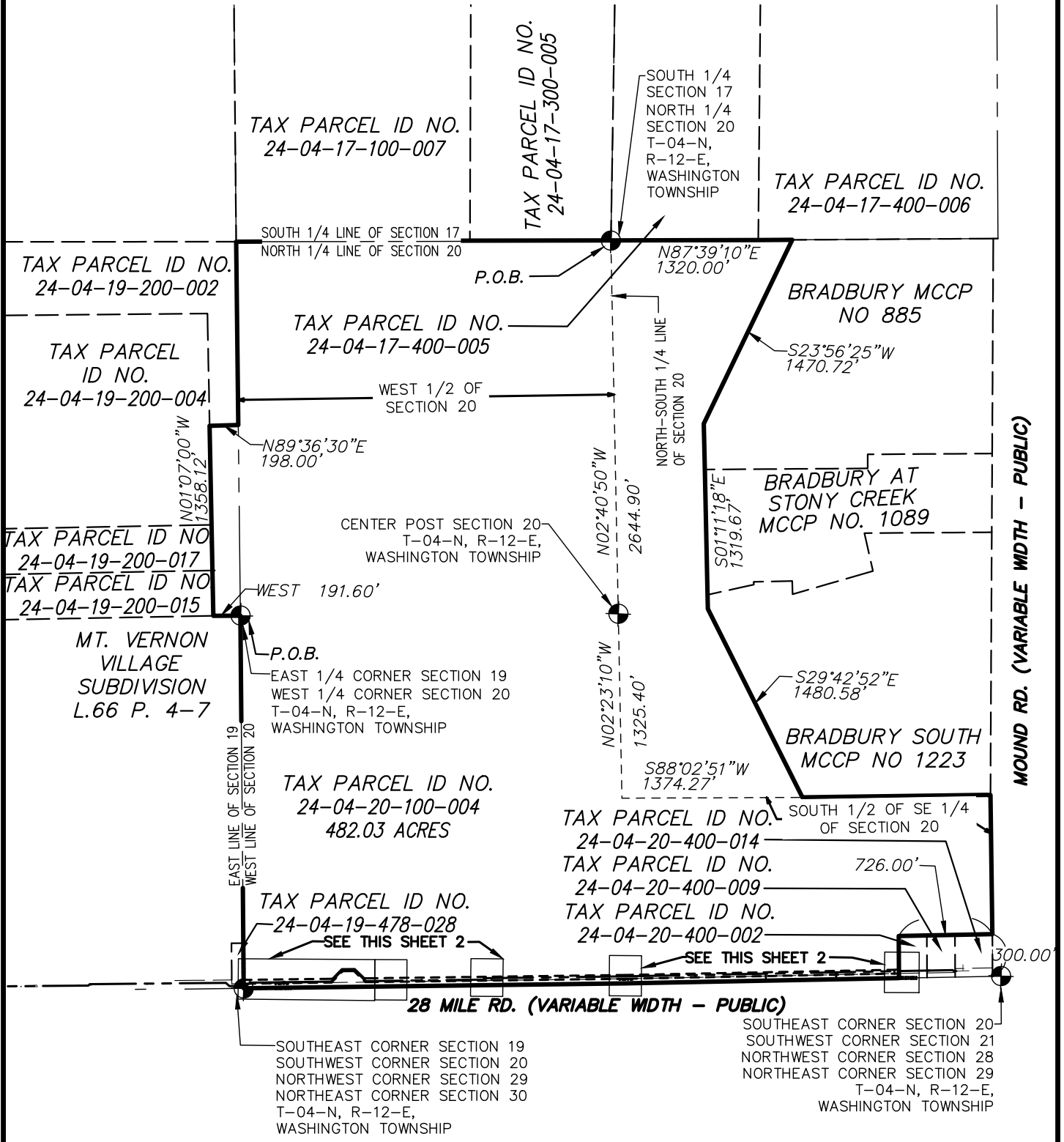
Acting in the County of _____

My commission expires _____

EXHIBIT A



0 500 1000
SCALE: 1" = 1000'



LEGEND

- EX. ROW
- PR. WATER MAIN
- PR. EASEMENT LINE
- (R) RECORD
- P.O.B POINT OF BEGINNING
- P.O.E. POINT OF ENDING

NOTE: BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH (2113), NAD83.

PARCEL ID: 24-04-20-100-004 WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN Water Main Easement

giffels webster
Engineers Surveyors Planners
Landscape Architects

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	19 & 20
	T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094
586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
Scale: 1"=1000'
Sheet: 1 OF 3
Project: 17850.25

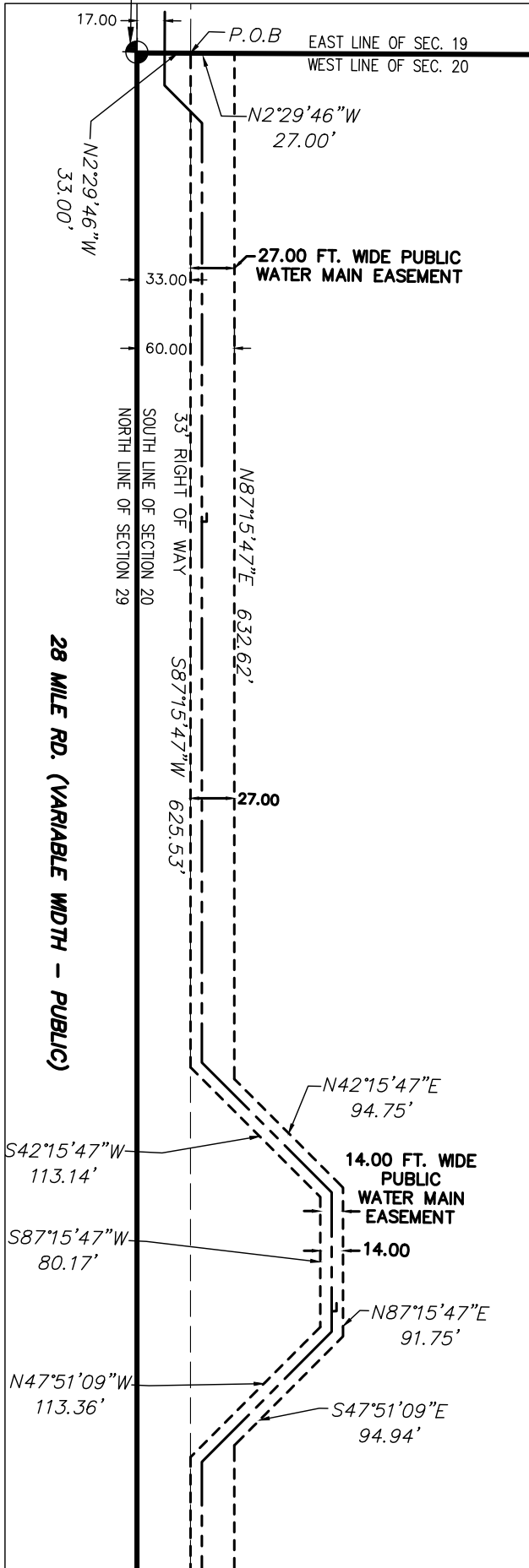
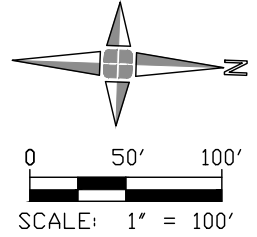
Copyright © 2022 Giffels Webster.
No reproduction shall be made without the prior written consent of Giffels Webster.

Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\1_28 Mile\03_24-04-20-100-004.dwg

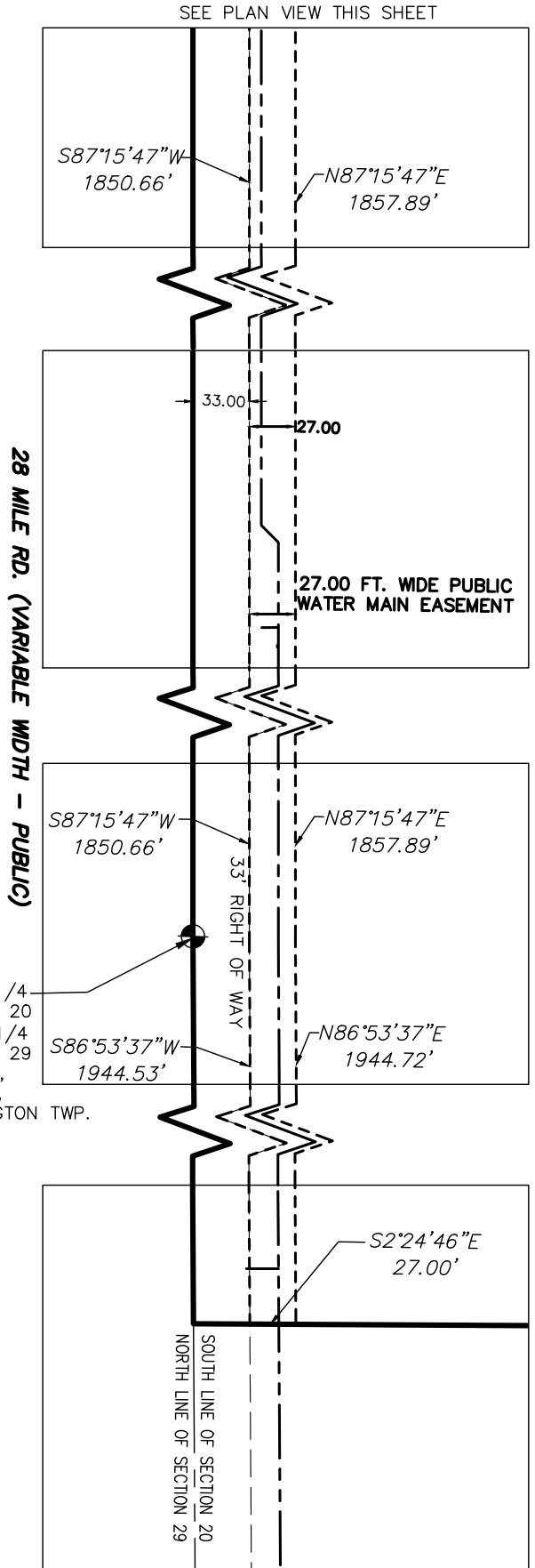
EXHIBIT A

POINT OF COMMENCEMENT
 SOUTHEAST CORNER SECTION 19
 SOUTHWEST CORNER SECTION 20
 NORTHWEST CORNER SECTION 29
 NORTHEAST CORNER SECTION 30
 T-04-N, R-12-E, WASHINGTON TOWNSHIP

- LEGEND**
- EX. ROW
 - - - EX. WATER MAIN
 - PR. WATER MAIN
 - - - PR. EASEMENT LINE
 - (R) RECORD
 - P.O.B. POINT OF BEGINNING



SEE PLAN VIEW THIS SHEET



SOUTH 1/4
 SECTION 20
 NORTH 1/4
 SECTION 29
 T-04-N,
 R-12-E,
 WASHINGTON TWP.

PARCEL ID: 24-04-20-100-004

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement



6303 26 Mile Road
 Suite 100
 Washington Twp, MI 48094
 p (586) 781-8950
 f (313) 962-5068
 www.giffelswebster.com

Executive: MK
 Manager: MK
 Designer: TP
 Quality Control: LDA
 Section: 19 & 20
 T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
 WASHINGTON, MI 48094

586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
 Scale: 1"=100'
 Sheet: 2 OF 3
 Project: 17850.25

Copyright © 2022 Giffels Webster.
 No reproduction shall be made
 without the prior written consent of
 Giffels Webster.

PROPERTY DESCRIPTION (PER TITLE SEARCH FILE NO. 50-22829214)

THE LAND REFERRED TO IN THIS SEARCH IS DESCRIBED AS FOLLOWS:
 TOWNSHIP OF WASHINGTON, COUNTY OF MACOMB, STATE OF MICHIGAN SECTIONS 19 & 20; BEGINNING AT EAST 1/4 CORNER SECTION 19; THENCE WEST 191.60 FEET; THENCE NORTH 01 DEGREES 07 MINUTES WEST 1358.12 FEET; THENCE NORTH 89 DEGREES 36 MINUTES 30 SECONDS EAST 198.0 FEET TO EAST SECTION LINE SECTION 19; THENCE SOUTH ALONG SAID SECTION LINE TO POINT OF BEGINNING; ALSO WEST 1/2 OF SECTION 20; ALSO BEGINNING AT NORTH 1/4 CORNER SECTION 20; THENCE NORTH 87 DEGREES 39 MINUTES 10 SECONDS EAST 1320.0 FEET ALONG NORTH SECTION LINE; THENCE SOUTH 23 DEGREES 56 MINUTES 25 SECONDS WEST 1470.72 FEET; THENCE SOUTH 01 DEGREE 11 MINUTES 18 SECONDS EAST 1319.67 FEET; THENCE SOUTH 29 DEGREES 42 MINUTES 52 SECONDS EAST 1480.58 FEET; THENCE SOUTH 88 DEGREES 02 MINUTES 51 SECONDS WEST 1374.27 FEET; THENCE NORTH 02 DEGREES 23 MINUTES 10 SECONDS WEST 1325.40 FEET TO CENTER POST SECTION 20; THENCE NORTH 02 DEGREES 40 MINUTES 50 SECONDS WEST 2644.90 FEET TO POINT OF BEGINNING; ALSO S 1/2 OF SOUTHEAST 1/4 SECTION 20, EXCEPT SOUTH 300.0 FEET OF EAST 726.0 FEET OF SOUTHEAST 1/4 SECTION 20.

COMMONLY KNOWN AS: VACANT PARK ROAD STONY CREEK, WASHINGTON TWP, MI 48094
 TAX ID NO. 24-04-20-100-004

14 FOOT & 27 FOOT PUBLIC WATER MAIN EASEMENT

A WATERMAIN EASEMENT LOCATED IN THE SOUTH HALF OF SECTION 20, T-4-N., R-12-E, WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 20; THENCE NORTH 02 DEGREES 29 MINUTES 46 SECONDS WEST, 33.00 FEET ALONG THE WEST LINE OF SAID SECTION 20 TO THE POINT OF BEGINNING OF A WATER MAIN EASEMENT; THENCE NORTH 02 DEGREES 29 MINUTES 46 SECONDS WEST, 27.00 FEET; THENCE NORTH 87 DEGREES 15 MINUTES 47 SECONDS EAST, 632.62 FEET; THENCE NORTH 42 DEGREES 15 MINUTES 47 SECONDS EAST, 94.75 FEET; THENCE NORTH 87 DEGREES 15 MINUTES 47 SECONDS EAST, 91.75 FEET; THENCE SOUTH 47 DEGREES 51 MINUTES 09 SECONDS EAST, 94.94 FEET; THENCE NORTH 87 DEGREES 15 MINUTES 47 SECONDS EAST, 1857.89 FEET; THENCE NORTH 86 DEGREES 53 MINUTES 37 SECONDS EAST, 1944.72 FEET; THENCE SOUTH 02 DEGREES 24 MINUTES 46 SECONDS EAST, 27.00 FEET TO A POINT ON THE 33 FEET RIGHT OF WAY LINE; THENCE THE FOLLOWING TWO (2) COURSES BEING ALONG SAID 33 FEET RIGHT OF WAY (1) SOUTH 86 DEGREES 53 MINUTES 37 SECONDS WEST, 1944.53 FEET; AND (2) SOUTH 87 DEGREES 15 MINUTES 47 SECONDS WEST, 1850.66 FEET; THENCE NORTH 47 DEGREES 51 MINUTES 09 SECONDS WEST, 113.36 FEET; THENCE SOUTH 87 DEGREES 15 MINUTES 47 SECONDS WEST, 80.17 FEET; THENCE SOUTH 42 DEGREES 15 MINUTES 47 SECONDS WEST, 113.14 FEET TO A POINT ON THE 33 FEET RIGHT OF WAY LINE; THENCE SOUTH 87 DEGREES 15 MINUTES 47 SECONDS WEST, 625.53 FEET ALONG SAID 33 FEET RIGHT OF WAY LINE TO THE POINT OF BEGINNING.

PART OF TAX ID NO. 24-04-20-100-004

Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\1.28 Mile\03_24-04-20-100-004.dwg

PARCEL ID: 24-04-20-100-004

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement



6303 26 Mile Road
 Suite 100
 Washington Twp, MI 48094
 p (586) 781-8950
 f (313) 962-5068
 www.giffelswebster.com

Engineers Surveyors Planners
 Landscape Architects

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	19 & 20
	T-04-N R-12-E

Developed For:
 CHARTER TOWNSHIP OF WASHINGTON
 57900 VAN DYKE AVE
 WASHINGTON, MI 48094
 586-786-0010

DATE:	ISSUE:

Date:	09.07.2022
Scale:	NA
Sheet:	3 OF 3
Project:	17850.25

Copyright © 2022 Giffels Webster.
 No reproduction shall be made
 without the prior written consent of
 Giffels Webster.

WATER MAIN EASEMENT AGREEMENT

THIS **WATER MAIN EASEMENT AGREEMENT** (“Agreement”) is made and entered into this 10th day of November, 2022, between Huron-Clinton Metro Authority, a Michigan public body corporate organized and operating under the provisions of Act No. 147 of 1939, as amended, whose address is 13000 High Ridge Dr., Brighton, MI 48116 (“Grantor”) and the Charter Township of Washington, a Michigan municipal corporation whose address is 57900 Van Dyke Avenue, Washington Township, MI 48094 (“Grantee”).

WITNESSETH:

WHEREAS, Grantor is the owner of certain real property located at Mt. Vernon, Washington Township, MI which is legally described in Exhibit “A” attached hereto, and incorporated herein by reference (“Property”); and

WHEREAS, Grantee desires to acquire from Grantor certain rights to the Property in order to construct, operate, maintain, repair and/or replace a public water main (“Water Main”).

IT IS THEREFORE AGREED:

1. Grant of Easement. In consideration of the sum of One (\$1.00) Dollar and for other good and valuable consideration, the receipt of which is hereby acknowledged, Grantor grants to Grantee a non-exclusive permanent easement for the construction, installation, repair, maintenance and replacement of a public Water Main and ancillary improvements and a temporary construction easement for construction over, under and across the Property as hereinafter described (the “Easement”).

2. Purpose of Easement. The Easement shall be used only for the construction, installation, repair, maintenance and replacement of the Water Main and no other purpose.

3. Location and Description of Easement. The location and legal description of the Easement granted by this Agreement is set forth and depicted in Exhibit “A” (“Easement Area”).

4. Construction, Operation, Maintenance, Repair and Replacement. The construction, operation, maintenance, repair and replacement of the Water Main shall be at the sole cost and expense of Grantee. Grantee shall keep and maintain the Water Main and related appurtenances upon the Easement Area in good repair and operation at Grantee’s expense. During all aspects of any work performed on the Property, Grantee also covenants and agrees to do the following:

- (a) Restore the Easement Area to a similar condition which existed prior to the installation of the public Water Main with the exception of any permanent structures erected in violation of this Agreement;
- (b) Backfill and restore all driveways and sidewalk areas located on the Property and disturbed by virtue of the construction, maintenance, repairs, replacement or any such work performed by Grantee;
- (c) Provide Grantor with continued access for ingress and egress over, under, through and across the Easement Area;
- (d) Once commenced by Grantee, any work permitted hereunder shall be diligently pursued to completion with all restoration obligations

satisfied, and all such work shall be completed by Grantee in a lien free manner.

(e) Provide Grantor with continued access to the Property.

5. Indemnification. Grantee shall be solely responsible for and shall indemnify, defend, and hold harmless Grantor from and against any and all liabilities, costs, damages, and/or claims, including without limitation reasonable attorneys' fees and litigation costs, incurred by or asserted against Grantor arising from or relating to the Easement, the Water Main, the exercise of any of Grantee's rights hereunder, or the construction, operation and/or maintenance of Grantee's facilities located in the Easement Area.

6. Placement of Structures. Grantor agrees not to build or to convey to others permission to build any permanent structures on, over, across, in, through or under the Easement Area, except that, subject to Grantee's approval, Grantor may construct and/or install surface improvements on the Property, including paved driveways, roadways, parking lots and/or walkways. Grantor may also install minor landscaping plantings, shrubs and bushes, utilities and/or similar improvements which improvements do not interfere with Grantee's use, operation and/or maintenance of the Water Main in the Easement Area. Temporary non-use or limited use of the Easement by Grantee shall not prevent Grantee from making use of the Easement to the fullest extent authorized by law.

7. Assignment. Grantee may assign this Agreement to any other municipality or county agency for Water Main purposes only.

8. Continued Utilization of Water Wells. Grantee acknowledges that Grantor currently utilizes a water well for purposes of accessing potable water to service the Property. Grantee shall not require Grantor or Grantor's successors and assigns to connect to the Water Main subsequent to installation of the improvements so long as Grantor's water well complies with all requirements of the Macomb County Department of Health.

9. Covenants to Run with Land. The covenants contained in this Agreement shall run with the land and shall be binding upon the parties and their respective representatives and successors.

10. Entire Agreement. This Agreement contains the entire agreement between the parties relating to the rights herein granted and the obligations herein assumed. Any oral representations or modifications concerning this Agreement shall be of no force and effect. Any modification of this Agreement must be in writing and signed by Grantor and Grantee, or their respective successors or assigns.

This easement is exempt from transfers taxes pursuant to MCL 207.505(a) and MCL 207.526(a).

IN WITNESS WHEREOF, the parties hereto have executed this Water Main Easement Agreement as of the day and year first written above.

GRANTOR

Huron-Clinton Metropolitan Authority,
a Michigan public body corporate organized
and operating under the provisions of Act No.
147 of 1939 as amended

By: _____
Name: Amy McMillan
Title: Director

STATE OF MICHIGAN }
 }ss.
COUNTY OF _____ }

The foregoing instrument was acknowledged before me this ____ day of _____, 2022,

_____, who acknowledged him/herself to be the _____ of Huron-Clinton Metropolitan Authority, a Michigan public body corporate organized under the provisions of Act No. 147 of 1939, as amended, and that he/she, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

Print Name:

Notary Public

, _____ County, Michigan

Acting in the County of _____

My commission expires

GRANTEE
CHARTER TOWNSHIP OF WASHINGTON

Sebastian Previti
Its Supervisor

STATE OF MICHIGAN }
 }ss.
COUNTY OF MACOMB }

The foregoing instrument was acknowledged before me this ____ day of _____, 2022, by Sebastian Previti, Supervisor of the Charter Township of Washington on behalf of the Township.

Print Name:

Notary Public
, _____ County, Michigan
Acting in the County of _____
My commission expires _____

Drafted by:
Robert J. Seibert, Esq.
Seibert and Dloski, PLLC
19500 Hall Rd., Suite 101
Clinton Township, MI 48038

When recorded return to:
Director, Public Works Department
Charter Township of Washington
57900 Van Dyke Ave.
Washington, MI 48094

TAX PARCEL ID NO.
24-04-07-400-005

TAX PARCEL ID NO.
24-04-07-400-009

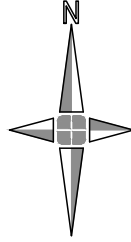
EXHIBIT A



Know what's below.
Call before you dig.

LEGEND

- EX. ROW
- PR. WATER MAIN
- PR. EASEMENT LINE
- (R) RECORD
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF ENDING



0 250' 500'
SCALE: 1" = 500'

MT. VERNON ROAD
NORTH-SOUTH 1/4 LINE OF SECTION 18

TAX PARCEL ID NO.
24-04-18-200-004

EAST LINE OF SECTION 18
WEST LINE OF SECTION 17

TAX PARCEL ID NO.
24-04-17-100-007

EAST-WEST 1/4 LINE OF SECTION 18

CENTER POST,
SECTION 18
T4N, R12E,
WASHINGTON TWP.
MACOMB COUNTY,
MICHIGAN

POINT "D"

POINT "C"

POINT "B"

POINT "A"

SEE SHEET 2

SEE SHEET 3

SEE SHEET 4

SEE SHEET 5

SEE SHEET 6

INWOOD ROAD

POINT "E"

P.O.E.

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

POINT OF COMMENCEMENT
WEST 1/4 CORNER, SECTION 17
EAST 1/4 CORNER, SECTION 18
T4N, R12E, WASHINGTON TWP.
MACOMB COUNTY, MICHIGAN

P.O.B.

200' WIDE HIGH VOLTAGE
TRANSMISSION PERMIT FOR THE
DETROIT EDISON COMPANY
(NOW ITC) L.1144, P.490 &
L.1099, P.257

MT. VERNON ROAD

SEE SHEET 7

SEE SHEET 7

TAX PARCEL ID NO.
24-04-18-400-002

TAX PARCEL ID NO.
24-04-18-400-003

TAX PARCEL ID NO.
24-04-18-100-004

NOTE: BEARINGS ARE BASED ON THE
STATE PLANE COORDINATE SYSTEM,
MICHIGAN SOUTH (2113), NAD83.

TAX PARCEL ID NO.
24-04-19-200-002

PARCEL ID: 24-04-18-400-005

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive: MK
Manager: MK
Designer: TP
Quality Control: LDA
Section: 18
T-04-N R-12-E

Developed For:

CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
Scale: 1"=500'
Sheet: 1 OF 8
Project: 17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

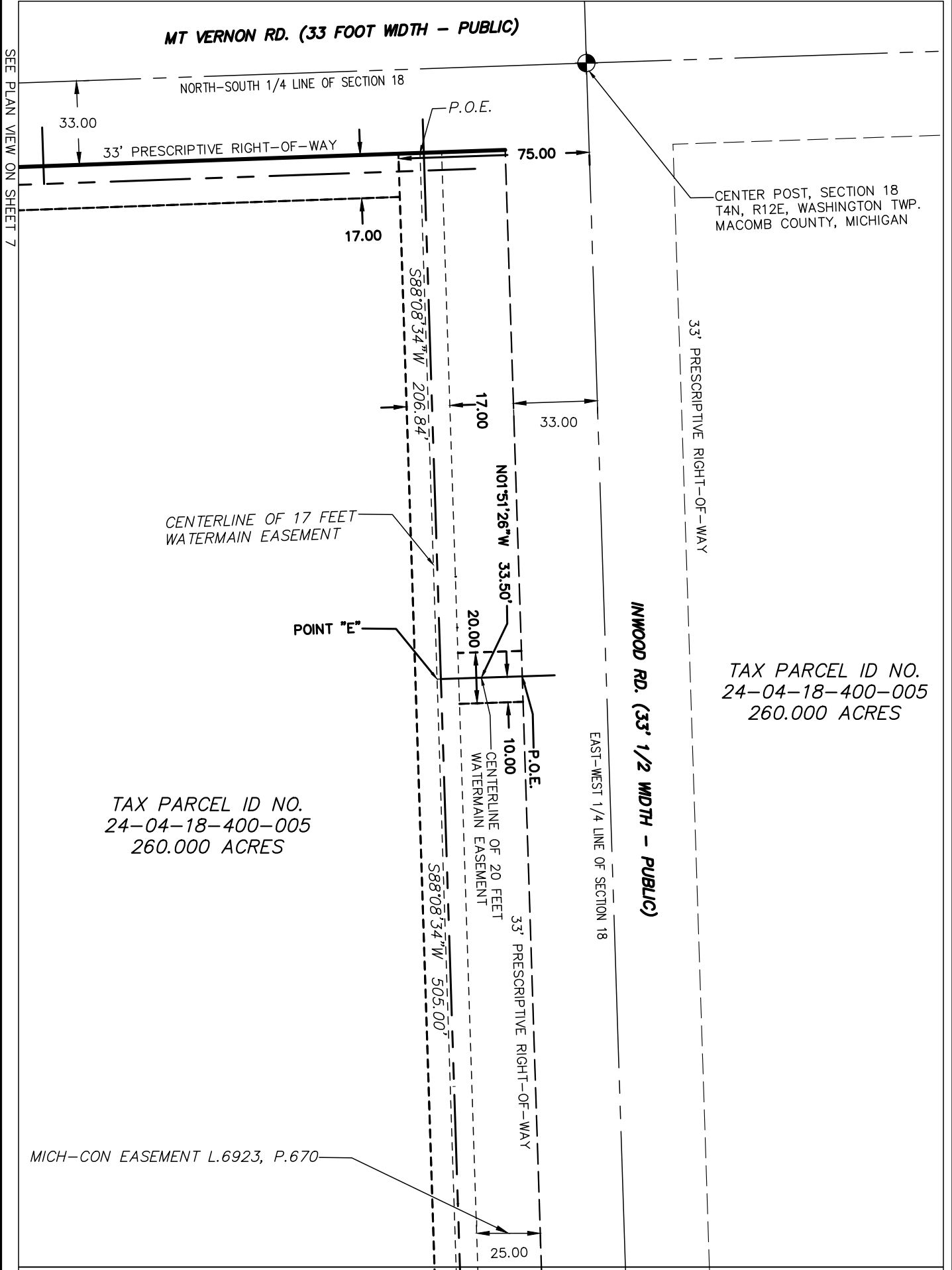
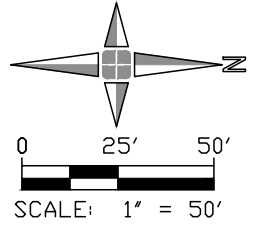
Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\29. 24-04-18-400-005.dwg

EXHIBIT A



Know what's below.
Call before you dig.

- LEGEND**
- EX. ROW
 - PR. WATER MAIN
 - PR. EASEMENT LINE
 - (R) RECORD
 - P.O.B. POINT OF BEGINNING
 - P.O.E. POINT OF ENDING



TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\29. 24-04-18-400-005.dwg

PARCEL ID: 24-04-18-400-005

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster
Engineers Surveyors Planners
Landscape Architects

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	18
	T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON
57900 VAN DYKE AVE
WASHINGTON, MI 48094
586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
Scale: 1"=50'
Sheet: 2 OF 8
Project: 17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

EXHIBIT A

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

TAX PARCEL ID NO.
24-04-18-200-004

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

MICH-CON EASEMENT L.6923, P.670

CENTERLINE OF 17 FEET
WATERMAIN EASEMENT

POINT "D"

N01°51'26"W 33.50'

20.00'

10.00'
P.O.E.
CENTERLINE OF 20 FEET
WATERMAIN EASEMENT

33' PRESCRIPTIVE RIGHT-OF-WAY

33.00

INWOOD RD. (33' 1/2 WIDTH - PUBLIC)

33' PRESCRIPTIVE RIGHT-OF-WAY

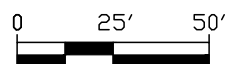
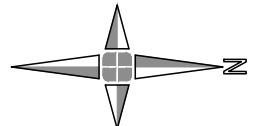
25.00'

LEGEND

- EX. ROW
- PR. WATER MAIN
- PR. EASEMENT LINE
- (R) RECORD
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF ENDING



Know what's below.
Call before you dig.



SCALE: 1" = 50'

PARCEL ID: 24-04-18-400-005

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster

Engineers Surveyors Planners
Landscape Architects

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive: MK
Manager: MK
Designer: TP
Quality Control: LDA
Section: 18
T-04-N R-12-E

Developed For:

CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

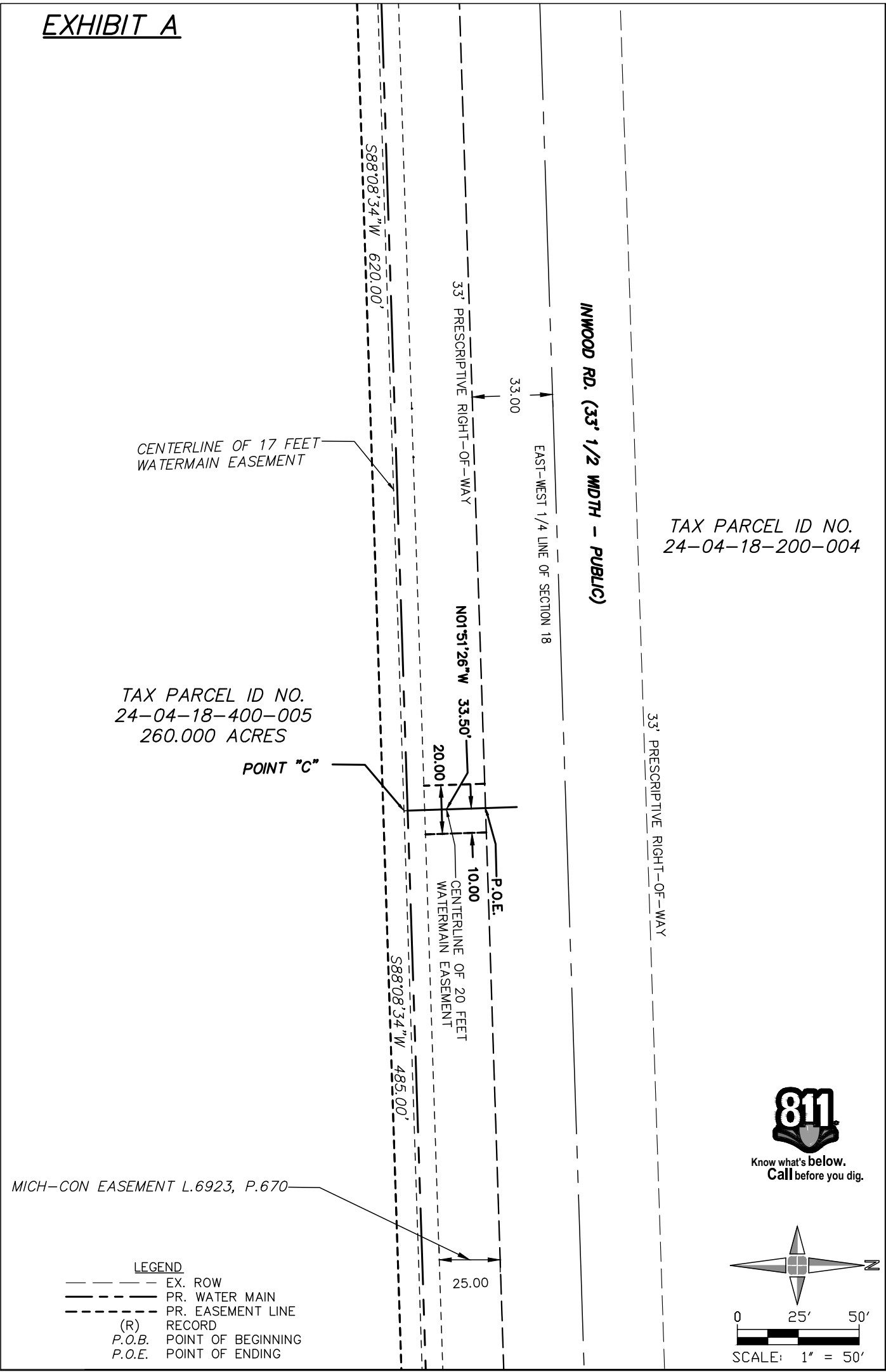
586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
Scale: 1"=50'
Sheet: 3 OF 8
Project: 17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

EXHIBIT A



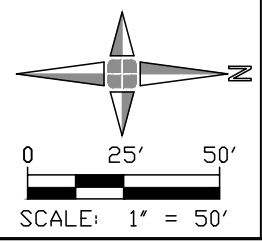
TAX PARCEL ID NO.
24-04-18-200-004

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

POINT "C"

MICH-CON EASEMENT L.6923, P.670

- LEGEND**
- EX. ROW
 - PR. WATER MAIN
 - PR. EASEMENT LINE
 - (R) RECORD
 - P.O.B. POINT OF BEGINNING
 - P.O.E. POINT OF ENDING



Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\29. 24-04-18-400-005.dwg

PARCEL ID: 24-04-18-400-005 WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN Water Main Easement

giffels webster
Engineers Surveyors Planners
Landscape Architects

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	18
	T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
Scale: 1"=50'
Sheet: 4 OF 8
Project: 17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

EXHIBIT A

TAX PARCEL ID NO.
24-04-18-200-004

CENTERLINE OF 17 FEET
WATERMAIN EASEMENT

INWOOD RD. (33' 1/2 WIDTH - PUBLIC)

EAST-WEST 1/4 LINE OF SECTION 18

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

POINT "B"

N01°51'26"W 33.50'

20.00'

10.00'

CENTERLINE OF 20 FEET
WATERMAIN EASEMENT

P.O.E.

S88°08'34"W 500.00'

33' PRESCRIPTIVE RIGHT-OF-WAY

33.00'

33' PRESCRIPTIVE RIGHT-OF-WAY

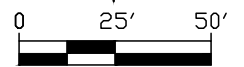
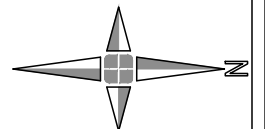
MICH-CON EASEMENT L.6923, P.670



Know what's below.
Call before you dig.

LEGEND

- EX. ROW
- PR. WATER MAIN
- PR. EASEMENT LINE
- (R) RECORD
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF ENDING



SCALE: 1" = 50'

PARCEL ID: 24-04-18-400-005

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement



Engineers Surveyors Planners
Landscape Architects

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	18
	T-04-N R-12-E

Developed For:

CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

586-786-0010

DATE:	ISSUE:

Date:	09.07.2022
Scale:	1"=50'
Sheet:	5 OF 8
Project:	17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

EXHIBIT A

MICH-CON EASEMENT L.6923, P.670

CENTERLINE OF 17 FEET WATERMAIN EASEMENT

POINT "A"

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

TAX PARCEL ID NO.
24-04-18-400-005
260.000 ACRES

INWOOD RD. (33' 1/2 WIDTH - PUBLIC)

EAST-WEST 1/4 LINE OF SECTION 18

33' PRESCRIPTIVE RIGHT-OF-WAY

33' PRESCRIPTIVE RIGHT-OF-WAY

POINT OF COMMENCEMENT
WEST 1/4 CORNER,
SECTION 17
EAST 1/4 CORNER,
SECTION 18
T4N, R12E,
WASHINGTON TWP.
MACOMB COUNTY,
MICHIGAN

P.O.B.

EAST LINE OF SECTION 18
WEST LINE OF SECTION 17

TAX PARCEL ID NO.
24-04-18-400-003

TAX PARCEL ID NO.
24-04-18-400-003

S02°31'02"E 66.50'

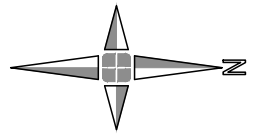
Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\29. 24-04-18-400-005.dwg



Know what's below.
Call before you dig.

LEGEND

- EX. ROW
- PR. WATER MAIN
- PR. EASEMENT LINE
- (R) RECORD
- P.O.B. POINT OF BEGINNING
- P.O.E. POINT OF ENDING



0 50' 100'
SCALE: 1" = 100'

PARCEL ID: 24-04-18-400-005

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster
Engineers Surveyors Planners
Landscape Architects

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive: MK
Manager: MK
Designer: TP
Quality Control: LDA
Section: 18
T-04-N R-12-E

Developed For:

CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

586-786-0010

DATE:	ISSUE:

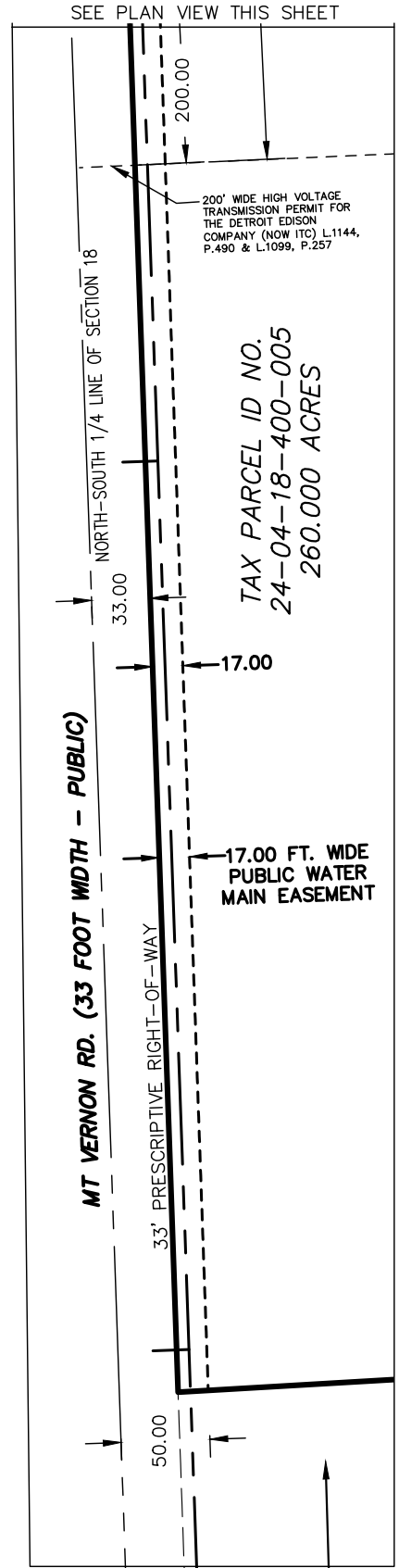
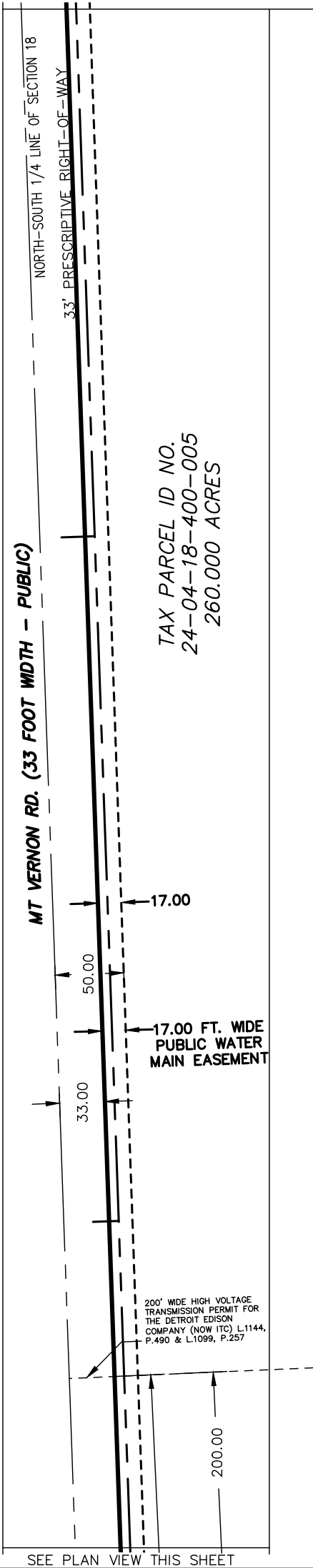
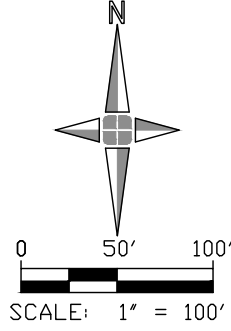
Date: 09.07.2022
Scale: 1"=50'
Sheet: 6 OF 8
Project: 17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

SEE PLAN VIEW ON SHEET 2

EXHIBIT A

- LEGEND**
- EX. ROW
 - PR. WATER MAIN
 - PR. EASEMENT LINE



TAX PARCEL ID NO.
24-04-18-400-002

PARCEL ID: 24-04-18-400-005

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster
 Engineers Surveyors Planners
 Landscape Architects

6303 26 Mile Road
 Suite 100
 Washington Twp, MI 48094
 p (586) 781-8950
 f (313) 962-5068
 www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	18
	T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON
 57900 VAN DYKE AVE
 WASHINGTON, MI 48094
 586-786-0010

DATE:	ISSUE:

Date:	09.07.2022
Scale:	1"=100'
Sheet:	7 OF 8
Project:	17850.25

Copyright © 2022 Giffels Webster.
 No reproduction shall be made
 without the prior written consent of
 Giffels Webster.

Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\29. 24-04-18-400-005.dwg

PROPERTY DESCRIPTION (PER TITLE SEARCH FILE NO. 50-21806728)

THE LAND REFERRED TO IN THIS SEARCH IS DESCRIBED AS FOLLOWS:
 TOWNSHIP OF WASHINGTON, COUNTY OF MACOMB, STATE OF MICHIGAN SECTION 18, TOWN 4 NORTH, RANGE 12 EAST; THE NORTHEAST 1/4 OF SECTION 18, EXCEPT THE WEST 45 ACRES OF THE EAST 90 ACRES OF THE SOUTH 120 ACRES OF THE NORTHEAST 1/4; ALSO THE SOUTHEAST 1/4 OF SECTION 18, EXCEPT THE SOUTH 15 ACRES OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF SECTION 18.

COMMONLY KNOWN AS: MT VERNON, WASHINGTON, MI 48095
 TAX ID NO. 24-04-18-400-005

17 FOOT WIDE PUBLIC WATER MAIN EASEMENT

THE CENTERLINE OF A SEVENTEEN (17) FOOT WIDE WATER MAIN EASEMENT LOCATED IN THE SOUTHEAST QUARTER OF SECTION 18, T4N., R12E, MACOMB COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE EAST QUARTER CORNER OF SECTION 18; THENCE SOUTH 02 DEGREES 31 MINUTES 02 SECONDS EAST, 66.50 FEET ALONG THE EAST LINE OF SAID SECTION 18 TO THE POINT OF BEGINNING OF A CENTERLINE OF 17 FEET WATER MAIN EASEMENT; THENCE SOUTH 88 DEGREES 08 MINUTES 34 SECONDS WEST, 280.66 FEET TO POINT "A"; THENCE SOUTH 88 DEGREES 08 MINUTES 34 SECONDS WEST, 500.00 FEET TO POINT "B"; THENCE SOUTH 88 DEGREES 08 MINUTES 34 SECONDS WEST, 485.00 FEET TO POINT "C"; THENCE SOUTH 88 DEGREES 08 MINUTES 34 SECONDS WEST, 620.00 FEET TO POINT "D"; THENCE SOUTH 88 DEGREES 08 MINUTES 34 SECONDS WEST, 505.00 FEET TO POINT "E"; THENCE SOUTH 88 DEGREES 08 MINUTES 34 SECONDS WEST, 206.84 FEET TO THE POINT OF ENDING.

AND THE CENTERLINE OF A 20 FOOT WIDE WATER MAN EASEMENTS DESCRIBED AS:
 BEGINNING AT THE ABOVE DESCRIBED POINT "A"; THENCE NORTH 01 DEGREES 51 MINUTES 26 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

ALSO BEGINNING AT THE ABOVE DESCRIBED POINT "B"; THENCE NORTH 01 DEGREES 51 MINUTES 26 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

ALSO BEGINNING AT THE ABOVE DESCRIBED POINT "C"; THENCE NORTH 01 DEGREES 51 MINUTES 26 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

ALSO BEGINNING AT THE ABOVE DESCRIBED POINT "D"; THENCE NORTH 01 DEGREES 51 MINUTES 26 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

ALSO BEGINNING AT THE ABOVE DESCRIBED POINT "E"; THENCE NORTH 01 DEGREES 51 MINUTES 26 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

AND THE EAST 17 FEET OF THE WEST 50 FEET EXCEPT THE NORTH 75 FEET OF THE ABOVE DESCRIBED PARCEL.

PART OF TAX ID NO. 24-04-18-400-005

Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\29_24-04-18-400-005.dwg

PARCEL ID: 24-04-18-400-005

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster
 Engineers Surveyors Planners
 Landscape Architects

6303 26 Mile Road
 Suite 100
 Washington Twp, MI 48094
 p (586) 781-8950
 f (313) 962-5068
 www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	18
T-04-N R-12-E	

Developed For:
 CHARTER TOWNSHIP OF WASHINGTON
 57900 VAN DYKE AVE
 WASHINGTON, MI 48094
 586-786-0010

DATE:	ISSUE:

Date:	09.07.2022
Scale:	NA
Sheet:	8 OF 8
Project:	17850.25

Copyright © 2022 Giffels Webster.
 No reproduction shall be made
 without the prior written consent of
 Giffels Webster.

WATER MAIN EASEMENT AGREEMENT

THIS **WATER MAIN EASEMENT AGREEMENT** (“Agreement”) is made and entered into this 10th day of November, 2022, between Huron-Clinton Metro Authority, a Michigan public body corporate organized and operating under the provisions of Act No. 147 of 1939, as amended, whose address is 13000 High Ridge Dr., Brighton, MI 48116 (“Grantor”) and the Charter Township of Washington, a Michigan municipal corporation whose address is 57900 Van Dyke Avenue, Washington Township, MI 48094 (“Grantee”).

WITNESSETH:

WHEREAS, Grantor is the owner of certain real property located at 63275 Park Rd. Stony Creek, Washington Township, MI which is legally described in Exhibit “A” attached hereto, and incorporated herein by reference (“Property”); and

WHEREAS, Grantee desires to acquire from Grantor certain rights to the Property in order to construct, operate, maintain, repair and/or replace a public water main (“Water Main”).

IT IS THEREFORE AGREED:

1. **Grant of Easement.** In consideration of the sum of One (\$1.00) Dollar and for other good and valuable consideration, the receipt of which is hereby acknowledged, Grantor grants to Grantee a non-exclusive permanent easement for the construction, installation, repair, maintenance and replacement of a public Water Main and ancillary improvements and a temporary construction easement for construction over, under and across the Property as hereinafter described (the “Easement”).

2. **Purpose of Easement.** The Easement shall be used only for the construction, installation, repair, maintenance and replacement of the Water Main and no other purpose.

3. **Location and Description of Easement.** The location and legal description of the Easement granted by this Agreement is set forth and depicted in Exhibit “A” (“Easement Area”).

4. **Construction, Operation, Maintenance, Repair and Replacement.** The construction, operation, maintenance, repair and replacement of the Water Main shall be at the sole cost and expense of Grantee. Grantee shall keep and maintain the Water Main and related appurtenances upon the Easement Area in good repair and operation at Grantee’s expense. During all aspects of any work performed on the Property, Grantee also covenants and agrees to do the following:

- (a) Restore the Easement Area to a similar condition which existed prior to the installation of the public Water Main with the exception of any permanent structures erected in violation of this Agreement;
- (b) Backfill and restore all driveways and sidewalk areas located on the Property and disturbed by virtue of the construction, maintenance, repairs, replacement or any such work performed by Grantee;
- (c) Provide Grantor with continued access for ingress and egress over, under, through and across the Easement Area;
- (d) Once commenced by Grantee, any work permitted hereunder shall be diligently pursued to completion with all restoration obligations satisfied, and all such work shall be completed by Grantee in a lien free manner.

_____ of Huron-Clinton Metropolitan Authority, a Michigan public body corporate organized under the provisions of Act No. 147 of 1939, as amended, and that he/she, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

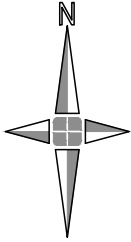
Print Name:

Notary Public
, _____ County, Michigan
Acting in the County of _____
My commission expires

EXHIBIT A



Know what's below.
Call before you dig.



0 250' 500'
SCALE: 1" = 500'

TAX PARCEL ID NO.
24-04-08-100-018

TAX PARCEL ID NO.
24-04-08-300-009

TAX PARCEL ID NO.
24-04-08-300-010

TAX PARCEL ID NO.
24-04-17-200-006

WEST 1/2 OF THE
NW 1/4 OF
SECTION 17

WEST 660' OF
THE EAST 1/2
OF NW 1/4 OF
SECTION 17

WEST 1/4 CORNER, SECTION 17
EAST 1/4 CORNER, SECTION 18
T4N, R12E, WASHINGTON TWP.
MACOMB COUNTY, MICHIGAN

TAX PARCEL ID NO.
24-04-17-100-007
220.260 ACRES

INWOOD RD. (33' 1/2 WIDTH - PUBLIC)

SEE SHEET 2

SEE SHEET 4

SEE SHEET 3

SEE SHEET 5

POINT "B"

POINT "C"

P.O.E. CENTERLINE
OF 17' WIDE WATER
MAIN EASEMENT

TAX PARCEL ID NO.
24-04-18-400-005

POINT "A"

P.O.B. CENTERLINE
OF 17' WIDE WATER
MAIN EASEMENT

TAX PARCEL ID NO.
24-04-17-300-005

POINT "D"

WEST 1/2 OF THE
SW 1/4 OF
SECTION 17

WEST 330' OF THE
EAST 1/2 OF THE
SW 1/4
OF SECTION 17

LEGEND

- EX. ROW
- PR. WATER MAIN
- PR. EASEMENT LINE
- (R) RECORD
- P.O.B POINT OF BEGINING
- P.O.E. POINT OF ENDING

NOTE: BEARINGS ARE BASED
ON THE STATE PLANE
COORDINATE SYSTEM, MICHIGAN
SOUTH (2113), NAD83.

TAX PARCEL ID NO.
24-04-20-100-004

PARCEL ID: 24-04-17-100-007

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement



6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive: MK
Manager: MK
Designer: TP
Quality Control: LDA
Section: 17
T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
Scale: 1"=500'
Sheet: 1 OF 6
Project: 17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

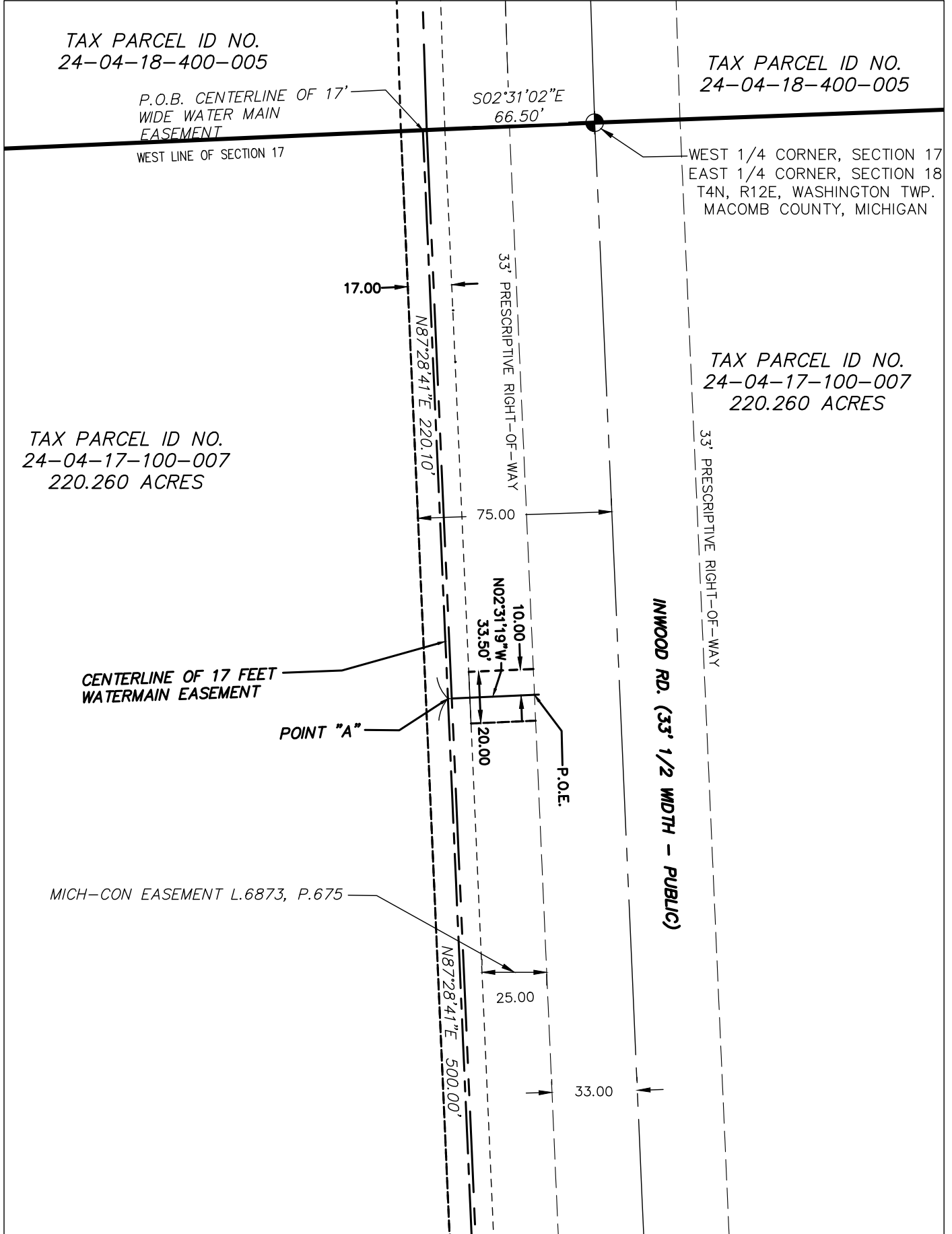
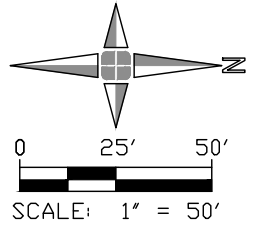
Z:\17850.00 Washington Twp\17850.25 26 Mile West Water Main\Easements\3. Inwood\30. 24-04-17-100-007.dwg

EXHIBIT A



Know what's below.
Call before you dig.

- LEGEND**
- EX. ROW
 - PR. WATER MAIN
 - PR. EASEMENT LINE
 - (R) RECORD
 - P.O.B POINT OF BEGINNING
 - P.O.E. POINT OF ENDING



PARCEL ID: 24-04-17-100-007

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement



6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	17
	T-04-N R-12-E

Developed For:

CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

586-786-0010

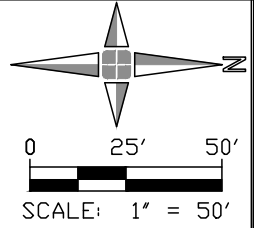
DATE:	ISSUE:

Date:	09.07.2022
Scale:	1"=50'
Sheet:	2 OF 6
Project:	17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

Z:\17850.00 Washington Twp\17850.25 26 Mile West Water Main\Easements\3. Inwood\30. 24-04-17-100-007.dwg

EXHIBIT A



TAX PARCEL ID NO.
24-04-17-100-007
220.260 ACRES

TAX PARCEL ID NO.
24-04-17-100-007
220.260 ACRES

MICH-CON EASEMENT L.6873, P.675

CENTERLINE OF 17 FT. WIDE
WATERMAIN EASEMENT

POINT "B"

P.O.E.

INWOOD RD. (33' 1/2 WIDTH - PUBLIC)

- LEGEND**
- EX. ROW
 - PR. WATER MAIN
 - PR. EASEMENT LINE
 - (R) RECORD
 - P.O.B POINT OF BEGINING
 - P.O.E. POINT OF ENDING



Know what's below.
Call before you dig.

PARCEL ID: 24-04-17-100-007

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster
Engineers Surveyors Planners
Landscape Architects

6303 26 Mile Road
Suite 100
Washington Twp, MI 48094
p (586) 781-8950
f (313) 962-5068
www.giffelswebster.com

Executive: MK
Manager: MK
Designer: TP
Quality Control: LDA
Section: 17
T-04-N R-12-E

Developed For:

CHARTER TOWNSHIP OF WASHINGTON

57900 VAN DYKE AVE
WASHINGTON, MI 48094

586-786-0010

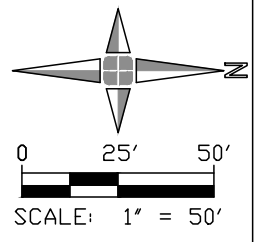
DATE:	ISSUE:

Date: 09.07.2022
Scale: 1"=50'
Sheet: 3 OF 6
Project: 17850.25

Copyright © 2022 Giffels Webster.
No reproduction shall be made
without the prior written consent of
Giffels Webster.

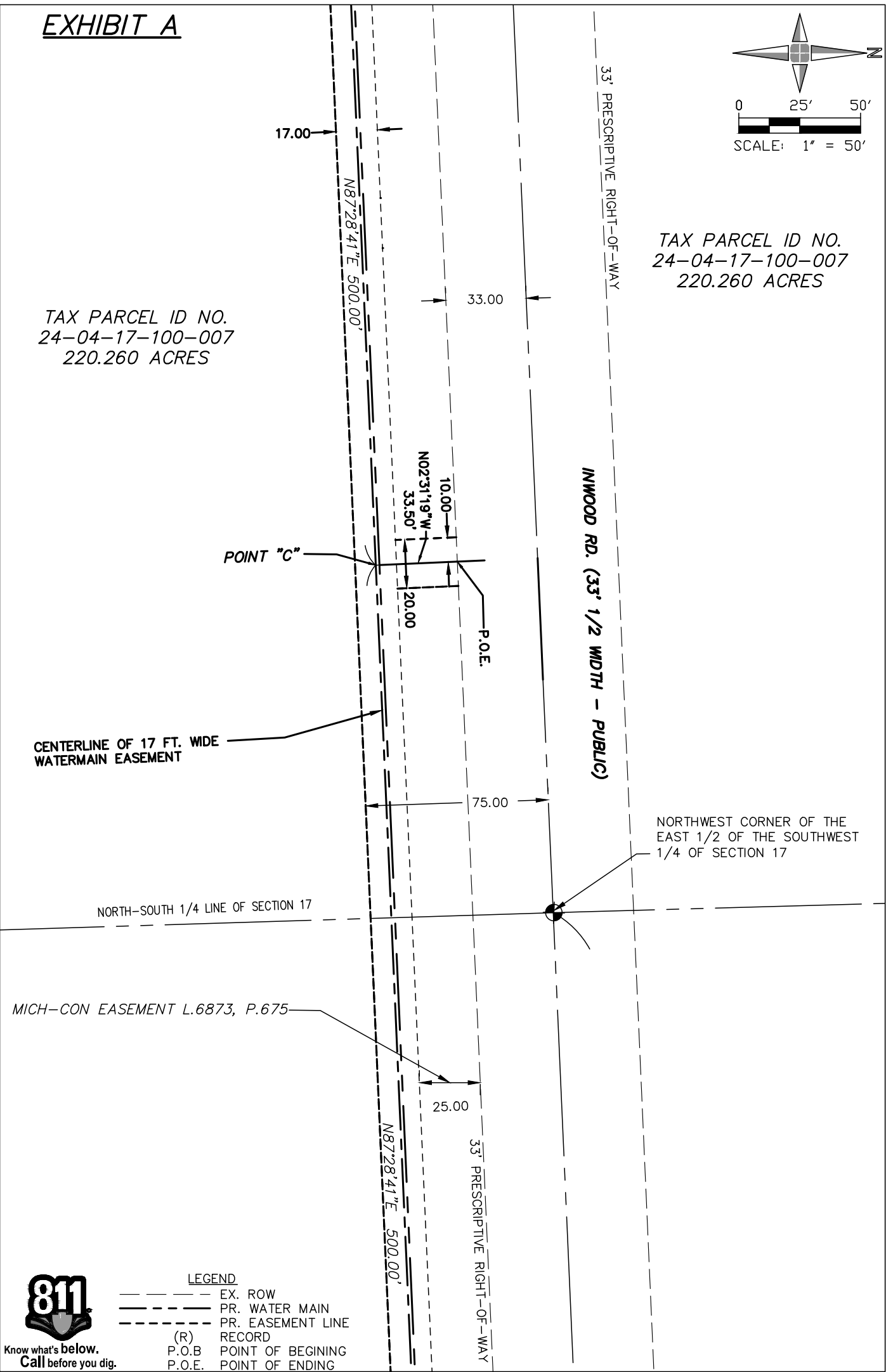
Z:\17850.00 Washington Twp\17850.25 26 Mile West Water Main\Easements\3. Inwood\30. 24-04-17-100-007.dwg

EXHIBIT A



TAX PARCEL ID NO.
24-04-17-100-007
220.260 ACRES

TAX PARCEL ID NO.
24-04-17-100-007
220.260 ACRES



CENTERLINE OF 17 FT. WIDE WATERMAIN EASEMENT

INWOOD RD. (33' 1/2 WIDTH - PUBLIC)

NORTHWEST CORNER OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 17

NORTH-SOUTH 1/4 LINE OF SECTION 17

MICH-CON EASEMENT L.6873, P.675



LEGEND

---	EX. ROW
---	PR. WATER MAIN
---	PR. EASEMENT LINE
(R)	RECORD
P.O.B	POINT OF BEGINING
P.O.E.	POINT OF ENDING

PARCEL ID: 24-04-17-100-007

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster
 Engineers Surveyors Planners
 Landscape Architects
 6303 26 Mile Road
 Suite 100
 Washington Twp, MI 48094
 p (586) 781-8950
 f (313) 962-5068
 www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	17
	T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON
 57900 VAN DYKE AVE
 WASHINGTON, MI 48094
 586-786-0010

DATE:	ISSUE:

Date:	09.07.2022
Scale:	1"=50'
Sheet:	4 OF 6
Project:	17850.25

Copyright © 2022 Giffels Webster.
 No reproduction shall be made without the prior written consent of Giffels Webster.

Z:\17850.00 Washington Twp\17850.25 26 Mile West Water Main\Easements\3. Inwood\30. 24-04-17-100-007.dwg

EXHIBIT A

NORTHWEST CORNER OF THE
EAST 1/2 OF THE SOUTHWEST
1/4 OF SECTION 17

NORTH-SOUTH 1/4 LINE OF SECTION 17

TAX PARCEL ID NO.
24-04-17-100-007
220.260 ACRES

TAX PARCEL ID NO.
24-04-17-100-007
220.260 ACRES

MICH-CON EASEMENT L.6873, P.675

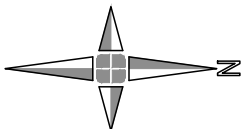
CENTERLINE OF 17 FT. WIDE
WATERMAIN EASEMENT

POINT "D"

P.O.E.
CENTERLINE OF
17' WIDE WATER
MAIN EASEMENT

TAX PARCEL ID NO.
24-04-17-300-005

TAX PARCEL ID NO.
24-04-17-300-005



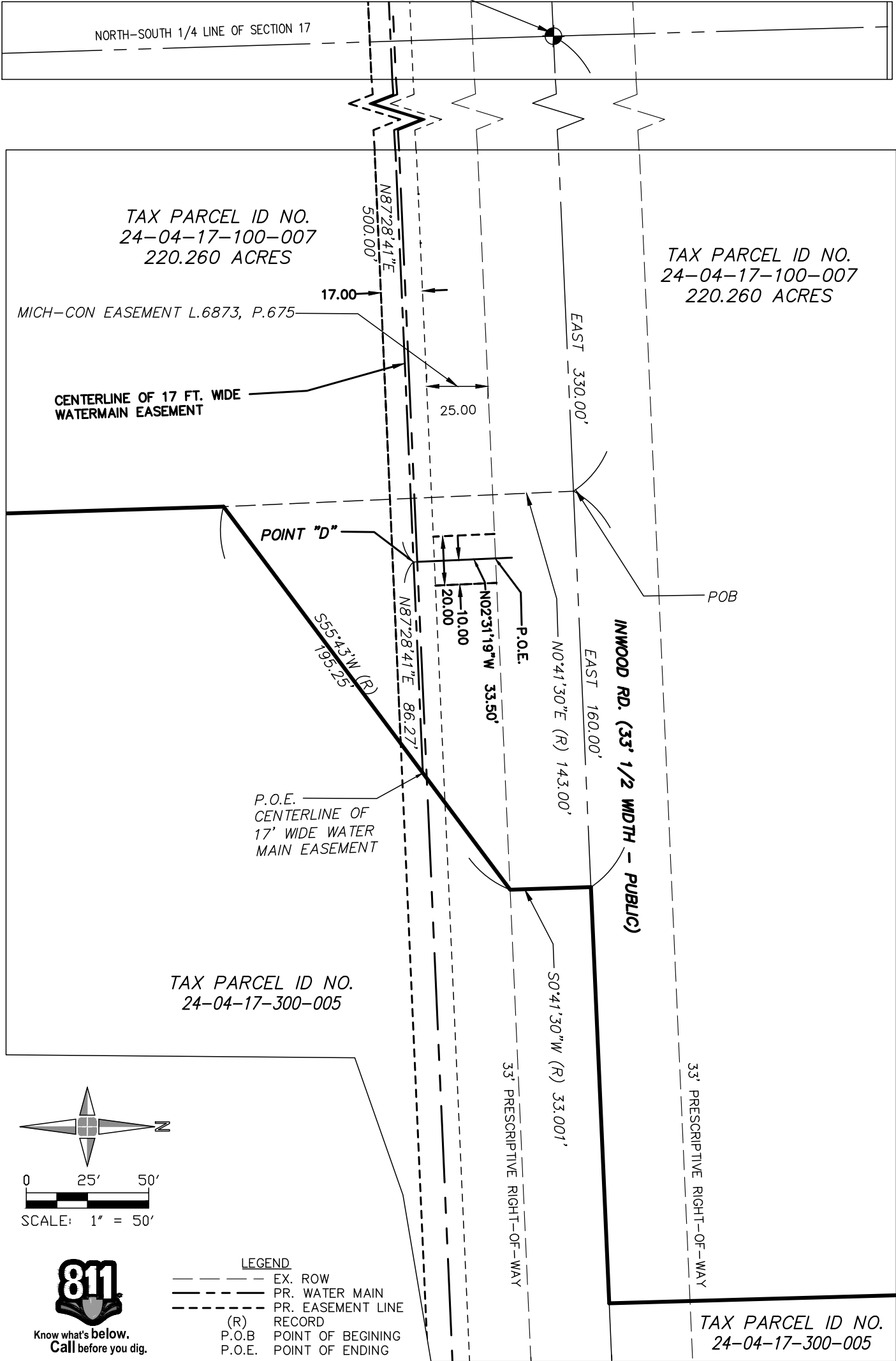
0 25' 50'
SCALE: 1" = 50'



Know what's below.
Call before you dig.

LEGEND

---	EX. ROW
---	PR. WATER MAIN
---	PR. EASEMENT LINE
(R)	RECORD
P.O.B	POINT OF BEGINING
P.O.E.	POINT OF ENDING



Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\30. 24-04-17-100-007.dwg

PARCEL ID: 24-04-17-100-007

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement

giffels webster
 Engineers Surveyors Planners
 Landscape Architects
 6303 26 Mile Road
 Suite 100
 Washington Twp, MI 48094
 p (586) 781-8950
 f (313) 962-5068
 www.giffelswebster.com

Executive: MK
 Manager: MK
 Designer: TP
 Quality Control: LDA
 Section: 17
 T-04-N R-12-E

Developed For:
CHARTER TOWNSHIP OF WASHINGTON
 57900 VAN DYKE AVE
 WASHINGTON, MI 48094
 586-786-0010

DATE:	ISSUE:

Date: 09.07.2022
 Scale: 1"=50'
 Sheet: 5 OF 6
 Project: 17850.25

Copyright © 2022 Giffels Webster.
 No reproduction shall be made
 without the prior written consent of
 Giffels Webster.

PROPERTY DESCRIPTION (PER TITLE SEARCH FILE NO. 50-21806723)

THE LAND REFERRED TO IN THIS SEARCH IS DESCRIBED AS FOLLOWS:
 TOWNSHIP OF WASHINGTON, COUNTY OF MACOMB, STATE OF MICHIGAN SECTION 17, TOWN 4 NORTH, RANGE 12 EAST; THE WEST 1/2 OF THE NORTHWEST 1/4 AND THE WEST 660.00 FEET OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 17, & THE WEST 1/2 OF THE SOUTHWEST 1/4 & THE WEST 330.00 FEET OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 17, ALSO BEGINNING AT A POINT 330.00 FEET EAST OF THE NORTHWEST CORNER OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 17; THENCE CONTINUING EAST 160.00 FEET; THENCE SOUTH 0 DEGREE 41 MINUTES 30 SECONDS WEST 33.00 FEET; THENCE SOUTH 55 DEGREES 43 MINUTES WEST 195.25 FEET; THENCE NORTH 0 DEGREE 41 MINUTES 30 SECONDS EAST 143.00 FEET TO THE POINT OF BEGINNING.

COMMONLY KNOWN AS: 63275 PARK RD STONY CREEK, WASHINGTON, MI 48095
 TAX ID NO. 24-04-17-100-007

17 FOOT WIDE PUBLIC WATER MAIN EASEMENT

THE CENTERLINE OF A SEVENTEEN (17) FOOT WIDE WATER MAIN EASEMENT LOCATED IN THE SOUTHWEST QUARTER OF SECTION 17, T4N, R12E, MACOMB COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE WEST QUARTER CORNER OF SECTION 17; THENCE SOUTH 02 DEGREES 31 MINUTES 02 SECONDS EAST, 66.50 FEET ALONG THE WEST LINE OF SAID SECTION 17 TO THE POINT OF BEGINNING OF A CENTERLINE OF 17 FEET WATER MAIN EASEMENT; THENCE NORTH 87 DEGREES 28 MINUTES 41 SECONDS EAST, 220.10 FEET TO POINT "A"; THENCE NORTH 87 DEGREES 28 MINUTES 41 SECONDS EAST, 500.00 FEET TO POINT "B"; THENCE NORTH 87 DEGREES 28 MINUTES 41 SECONDS EAST, 500.00 FEET TO POINT "C"; THENCE NORTH 87 DEGREES 28 MINUTES 41 SECONDS EAST, 500.00 FEET TO POINT "D"; THENCE NORTH 87 DEGREES 28 MINUTES 41 SECONDS EAST, 86.27 FEET TO THE POINT OF ENDING.

AND THE CENTERLINE OF A 20 FOOT WIDE WATER MAIN EASEMENTS DESCRIBED AS:
 BEGINNING AT THE ABOVE DESCRIBED POINT "A"; THENCE NORTH 02 DEGREES 31 MINUTES 19 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

ALSO BEGINNING AT THE ABOVE DESCRIBED POINT "B"; THENCE NORTH 02 DEGREES 31 MINUTES 19 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

ALSO BEGINNING AT THE ABOVE DESCRIBED POINT "C"; THENCE NORTH 02 DEGREES 31 MINUTES 19 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

ALSO BEGINNING AT THE ABOVE DESCRIBED POINT "D"; THENCE NORTH 02 DEGREES 31 MINUTES 19 SECONDS WEST, 33.50 FEET TO THE POINT OF ENDING.

PART OF TAX ID NO. 24-04-17-100-007

Z:\17850.00 Washington Twp\17850.25 28 Mile West Water Main\Easements\3. Inwood\30. 24-04-17-100-007.dwg

PARCEL ID: 24-04-17-100-007

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN

Water Main Easement



6303 26 Mile Road
 Suite 100
 Washington Twp, MI 48094
 p (586) 781-8950
 f (313) 962-5068
 www.giffelswebster.com

Executive:	MK
Manager:	MK
Designer:	TP
Quality Control:	LDA
Section:	17
T-04-N R-12-E	

Developed For:
 CHARTER TOWNSHIP OF WASHINGTON
 57900 VAN DYKE AVE
 WASHINGTON, MI 48094
 586-786-0010

DATE:	ISSUE:

Date:	09.07.2022
Scale:	NA
Sheet:	6 OF 6
Project:	17850.25

Copyright © 2022 Giffels Webster.
 No reproduction shall be made
 without the prior written consent of
 Giffels Webster.



To: Board of Commissioners
From: Tyler Mitchell, Chief of Natural Resources and Regulatory Compliance
Project No: 51218.239
Project Title: Approval – Lake Erie Shoreline and Fish Habitat Restoration
Location: Lake Erie Metropark
Date: November 4, 2022

Action Requested: Motion to Approve

That the Board of Commissioners award Contract No 512-18-239R to the low responsive, responsible bidder, Catskill Remedial Contracting Services, Inc. for an amount not to exceed \$657,136.48 as recommended by Chief of Natural Resources and Regulatory Compliance Tyler Mitchell and staff.

Fiscal Impact: Funding for the project is provided by the Great Lakes Commission (GLC) to support the Great Lakes Restoration Initiative (GLRI) with pass-through funds from the National Oceanic and Atmospheric Administration (NOAA). This project is supported with federal funds, and this portion of the restoration will be funded entirely by existing grant funds.

Scope of Work: This work includes the excavation and grading of the shoreline, placement of limestone ledgestone, excavation and stockpiling of spoils, and placement of root wad and other habitat structures.

Background: The Michigan Department of Natural Resources, Southeast Michigan Council of Governments, and the Great Lakes Commission approached the Huron-Clinton Metroparks to pursue funding for shoreline softening, fish habitat improvement and habitat monitoring.

This project will benefit numerous state and federal wildlife species, enhance both sport and non-sport fisheries, and provide enhanced water-based recreation opportunities. These outcomes will be accomplished by softening 1,183 linear feet of shoreline and the enhancement of approximately 1.7 acres of shallow water channels and pools. Shoreline softening will be located on the unused portion of the peninsula south of the wave pool and will include locations for shore fishing.

Channel enhancement has taken place in the coastal marsh south of the boat launch. These channels will enhance the water trail connectivity and extend the length of the water trail and shallow water habitat. Shallow pools and channels will be dredged to a minimum of three feet below ordinary high-water level. These projects are part of the Metroparks strategic master plan for Lake Erie Metropark, which was approved by the Board at its regular meeting on Feb. 8, 2018. The original project and proposed budget was approved by the Board at its regular meeting on Sept. 13, 2018. The channel design and award and archeological services award were approved by the Board at its regular meeting on Nov. 5, 2021 and Feb. 4, 2022 respectively.

<u>Contractor</u>	<u>City</u>	<u>Amount</u>
Catskill Remedial	Brighton, MI	\$657,136.48
Anglin Civil, LLC	Livonia, MI	\$843,400.00
Erie Construction LLC	Woodhaven, MI	\$887,065.00

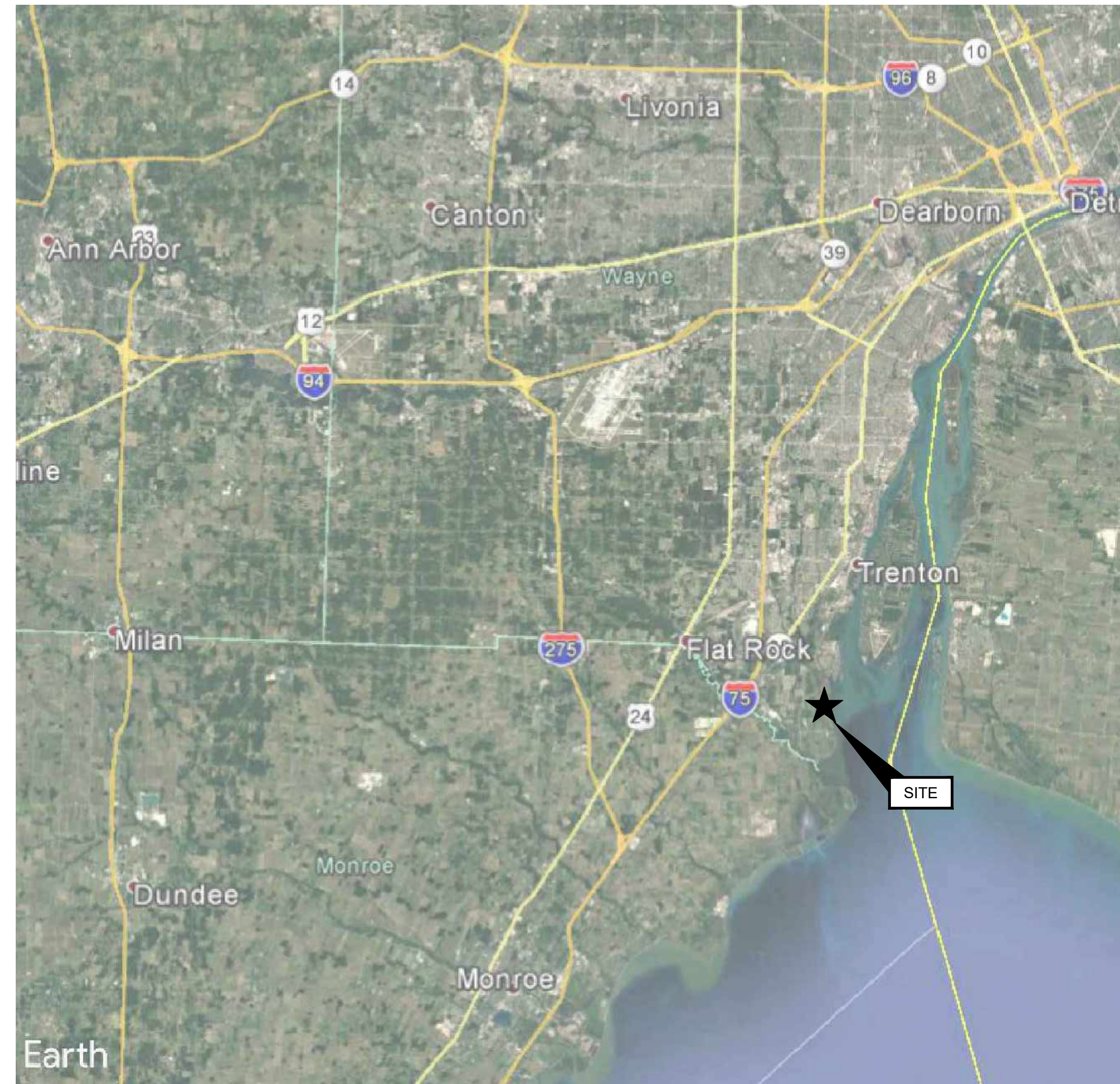
Attachment: Lake Erie Shoreline Phase 2 Plans

LAKE ERIE METROPARK SHORELINE RESTORATION - PHASE II

Project No. 51218.239

NOAA Grant No. NA16NMF4630341

HURON-CLINTON METROPARK AUTHORITY



VICINITY MAP

SCALE: N.T.S.



LOCATION MAP

SCALE: N.T.S.



SHEET INDEX

G1	COVER SHEET
N1	NOTES
C1	SESC
C2	EXISTING SHORELINE
C3	PROPOSED SHORELINE
C4	SHORELINE SECTIONS
C5	SHORELINE SECTIONS
C6	SITE DETAILS
C7	PLANTING PLAN
C8	LANDSCAPING DETAILS

OWNER CONTACT:
 TYLER MITCHELL, CHIEF OF NATURAL RESOURCES AND REGULATORY COMPLIANCE
 HURON-CLINTON METROPARKS AUTHORITY, ADMINISTRATIVE OFFICE
 13000 HIGH RIDGE DRIVE
 BRIGHTON, MI 48114-9058 USA
 (808) 321-2634

ENGINEER CONTACT:
 SCOTT DIERKS, PE
 SENIOR WATER RESOURCE ENGINEER
 GEI CONSULTANTS
 9282 GENERAL DRIVE, SUITE 180
 PLYMOUTH, MI 48170

FOR CONSTRUCTION



BEFORE YOU DIG
 CALL MISS DIG
 CALL 3 FULL WORKING DAYS
 811 OR 1-800-487-7171

Warning:
 It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:



If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP
1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	

Designed:	MS
Checked:	SD
Drawn:	MS, HC
Submitted By:	SD
P.E. Number:	44371



HURON-CLINTON METROPARK AUTHORITY

GEI Project 1903754

LAKE ERIE METROPARK SHORELINE RESTORATION
 COVER SHEET

DWG. NO.
G1
 SHEET NO.
 1 OF 10

PROJECT, BASE BID AND ALTERNATE BID DESCRIPTIONS

1. SURVEY WAS COMPLETED BY SME; (11-1-2019). DRAWING BASED ON MICHIGAN STATE PLAN COORDINATES SYSTEM, SOUTH ZONE, INTERNATIONAL FEET. VERTICAL DATUM REFERENCED TO NAVD88. DRAWING BASED ON MICHIGAN STATE PLAN COORDINATES SYSTEM, SOUTH ZONE, INTERNATIONAL FEET. VERTICAL DATUM REFERENCED TO NAVD88. THIS SURVEY WILL NOT SHOW ALL EASEMENTS OF RECORD NO TITLE POLICY HAS BEEN FURNISHED TO THE SURVEYOR BY THE OWNER.
2. THIS IS THE SECOND PHASE OF A TWO-PHASE PROJECT. ORIGINALLY THERE WAS GOING TO BE APPROXIMATELY A YEAR BETWEEN THE CONCLUSION OF PHASE 1 AND INITIATION OF PHASE 2. DELAYS IN IMPLEMENTING PHASE ONE HAVE RESULTED IN THE PROJECTS OCCURRING BACK TO BACK. PHASE 1 CONSISTS PRIMARILY OF GRADING THE PROJECT SHORELINE BACK TO AN APPROXIMATELY 15:1 TO 20:1 GRADE, WHILE LEAVING THE EXISTING RIPRAP WALL IN PLACE.
3. FOR THIS PROJECT - PHASE 2 - THE CONTRACTOR SHALL EXCAVATE APPROXIMATELY 1,930-CY OF THE EXISTING RIPRAP BERM; STOCKPILE APPROXIMATELY 700-CY OF BERM RIPRAP AND GRAVEL WITH THE REMAINDER TO BE TRANSPORTED TO PARK SPOILS PILE AND ROUGH GRADED. CONSTRUCT EIGHT OFFSHORE RUBBLE MOUND BREAKWATERS WITH 860 TONS OF ~2-FT DIAMETER LIMESTONE BOULDERS; 352 TONS OF ~1-FT DIAMETER LIMESTONE BOULDERS AND 333 CYD OF 3"-6" DIAMETER AGGREGATE. SUITABLE STOCKPILED RIPRAP AND GRAVEL WILL BE USED TO MAKE UP SOME OF THIS TOTAL BREAKWATER STONE. ADDITIONALLY, PLACE AND CONSTRUCT 12 ROOTWAD HABITAT STRUCTURES AND 3 CONSTRUCTED DEPRESSIONS WITH APPROXIMATELY 4.5-TONS OF SLABSTONE FOR EACH DEPRESSION (18 TONS TOTAL) IN THE NEARSHORE AREA. CONSTRUCT 3 STONE LANDINGS WITH APPROXIMATELY 5.5 TONS OF MICHIGAN LIMESTONE LEDGESTONE PER LANDING (22 TONS TOTAL). ALL WORK AREAS, SPOIL PILE AND ACCESS AREAS SHALL BE LEVELED AND DISKED PRIOR TO COMPLETION. ALL SEEDING, PLANTING AND BLANKETING TO BE DONE BY THE OWNER.
4. THE PROJECT MUST BE COMPLETE AND THE CONTRACTOR FULLY DEMOBILIZED FROM THE SITE BY APRIL 30, 2023. THE COMPLETION DATE IS FIXED AND IS NOT NEGOTIABLE.
5. THE SITE SHALL BE AVAILABLE FOR WORK AFTER NOVEMBER 1, 2022 AND FOLLOWING COMPLETION OF PHASE 1 WORK. SEE PROJECT COORDINATION SECTION BELOW FOR MORE DESCRIPTION OF SITE COORDINATION BETWEEN PHASE 1 AND PHASE 2.
6. THE CONTRACTOR MUST PROVIDE 7-DAY NOTICE PRIOR TO STARTING WORK.
7. PERMITS SHALL BE ACQUIRED BY THE OWNER. WORK CANNOT START UNTIL ALL PERMITS ARE IN HAND; HOWEVER, OWNER SHALL NOT BE RESPONSIBLE FOR LATER PERMITS.
8. FOR THE BASE BID IT IS ASSUMED THAT THE CONTRACTOR SHALL ACCESS THE SITE WITH HEAVY EQUIPMENT AND BRING IN HEAVY MATERIALS, SUCH AS STONE, BY BARGE VIA THE WATER. THERE IS A BOAT LAUNCH JUST NORTH OF THE SITE THAT IS PART OF THE LAKE ERIE METROPARK. CONTRACTORS SHALL ASSUME FOR THEIR BID THAT THEY WILL BARGE OVER EQUIPMENT AND MATERIALS FROM THAT POINT OF ENTRY. ONCE EQUIPMENT AND MATERIALS ARE DELIVERED TO THE SITE CONTRACTOR WILL HAVE ACCESS AND STORAGE INSIDE THE SNOW FENCE AREA SHOWN ON THE PROJECT DRAWINGS. AS LONG AS THE TURBIDITY CURTAIN IS PROPERLY INSTALLED THE CONTRACTOR MAY WORK IN THE WATER DURING CONSTRUCTION.
9. FOR THE ALTERNATE THE CONTRACTOR SHALL ASSUME THEY WILL ACCESS THE SITE AND BRING IN HEAVY MATERIALS, SUCH AS STONE, OVERLAND VIA THE ACCESS ROUTES IDENTIFIED IN THE PROJECT DRAWINGS.

PROJECT COORDINATION NOTES

1. PHASE 1 CONTRACTOR IS RESPONSIBLE FOR EXCAVATING AND GRADING OUT THE NEW SHORELINE SLOPE BEHIND THE RIPRAP. THIS CONTRACTOR WILL ALSO BUILD AND MAINTAIN HAUL ROADS AND A SPOILS PILE ON PARK PROPERTY. THE PHASE 1 CONTRACTOR SHALL INSTALL AND MAINTAIN SNOW FENCE TO LIMIT CONSTRUCTION FOOTPRINT AND SILT FENCE TO LIMIT EROSION IMPACTS.
2. PHASE 1 CONTRACTOR SHALL LEAVE HAUL ROAD, SPOILS PILE, SNOW FENCE AND SILT FENCE IN PLACE AT THE CONCLUSION OF THEIR WORK. PHASE 1 CONTRACTOR WILL NOT BE RESPONSIBLE FOR RESTORATION OF THESE AREAS. CONTROL OF THE SITE SHALL PASS TO PHASE 2 CONTRACTOR AT THE CONCLUSION OF PHASE 1. ALL
3. AT THE CONCLUSION OF PHASE 1 HCMA AND THE ENGINEER SHALL ASSESS THE CONDITION OF THE SNOW FENCE, SILT FENCE AND HAUL ROAD. PHASE 1 CONTRACTOR SHALL PERFORM ANY NECESSARY REPAIRS TO LEAVE ALL MEASURES IN PLACE AND IN GOOD WORKING ORDER. IF THE CONTRACTOR HAS CAUSED DAMAGE TO INFRASTRUCTURE THE ENGINEER SHALL ASSESS AND DOCUMENT THE DAMAGE. PHASE 1 CONTRACTOR WILL EITHER REPAIR OR BE ASSESSED THE COST OF REPAIRS FOR ANY DAMAGE CAUSED BY THE CONTRACTOR OR SUBCONTRACTORS.
4. PHASE 2 CONTRACTOR SHALL ASSUME MAINTENANCE OF EXISTING SNOW FENCE AND SILT CURTAIN FOR WORK AREAS AFTER THE PHASE 1 CONTRACTOR HAS CONCLUDED WORK AND REMAINS RESPONSIBLE FOR ITS MAINTENANCE THROUGHOUT CONSTRUCTION. SNOW FENCE AND SILT FENCE SHALL BE LEFT IN PLACE THROUGH CONCLUSION OF PHASE 2 CONSTRUCTION.
5. PHASE 2 CONTRACTOR IS NOT RESPONSIBLE FOR SITE SEEDING AND PLANTING; HOWEVER, PHASE 2 CONTRACTOR WILL BE RESPONSIBLE FOR PLACING TOPSOIL OVER ALL DISTURBED AREAS AND SHALL DECOMPACT ALL WORK AREAS, INCLUDING HAUL ROADS TO THE SATISFACTION OF HCMA AND ENGINEER BEFORE MOBILIZING OFF-SITE.
6. REMOVAL OF SNOW FENCE AND SILT CURTAIN SHALL BE PERFORMED BY HCMA.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL EROSION CONTROL MEASURES, AS NEEDED, TO PREVENT OFF-SITE TRANSPORT OF EARTH, SEDIMENT AND DEBRIS.
2. AREAS TO REMAIN UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED. AREAS TO REMAIN UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED.
3. PERMANENT SEEDING SHALL BE OCCUR BETWEEN MARCH 1 AND JUNE 15, OR BETWEEN AUGUST 15 AND OCTOBER 15.
4. ALL STOCKPILE AREAS SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS UNTIL SUCH TIME AS THE MATERIAL IS RESPREAD AND STABILIZED OR TRANSPORTED OFF-SITE.
5. SOILS TO BE STOCKPILED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE SURROUNDED BY EROSION CONTROLS, TEMPORARILY SEEDED AND MULCHED.
6. TEMPORARY STOCKPILES OF DREDGED/EXCAVATED MATERIAL SHALL BE LOCATED ON-SITE, WITHIN THE DESIGNATED AREA(S). ANY MATERIAL NOT RE-USED ON-SITE SHALL BE TRUCKED TO AN ACCEPTABLE OFF-SITE DISPOSAL LOCATION IN ACCORDANCE WITH THE PROJECTS PERMITS.
7. EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY AND DURING AND AFTER EVERY RAIN EVENT. ANY NECESSARY REPLACEMENT OR REPAIR SHALL BE PERFORMED PROMPTLY BY THE CONTRACTOR.
8. DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE REGULATIONS.
9. THE CONTRACTOR SHALL ENSURE THAT ALL ACTIVE SHORELINE CONSTRUCTION ACTIVITY IS COMPLETELY ENCLOSED WITH SUITABLE TURBIDITY CURTAIN.
10. THE SITE SHALL BE LEFT IN A STABLE CONDITION AT THE CLOSE OF EACH DAY. THE SITE SHALL BE LEFT IN A STABLE CONDITION AT THE CLOSE OF EACH DAY.

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, 48 HOURS PRIOR TO ANY WORK WITHIN 15 FEET OF A UTILITY LINE.
2. THE CONTRACTOR SHALL, UNDER THE DIRECTION OF THE ENGINEER, ESTABLISH/MAINTAIN "CONSTRUCTION LIMITS" ON THE SITE BY ACCEPTABLE VISIBLE MARKERS ALL WORK AND EQUIPMENT SHALL BE CONFINED WITHIN THESE LIMITS, UNLESS OTHERWISE SPECIFICALLY AUTHORIZED.
3. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY ENGINEER AND/OR APPLICANT/OWNER.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
5. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGING, TREES, PLANTINGS, STRUCTURES, PIPES, ETC ON OR OFF THE PREMISES, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT HIS/HER OWN EXPENSE AS REQUIRED BY THE ENGINEER OR OWNER ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
6. THE CONTRACTOR SHALL DISPOSE OF ALL STUMPS, RUBBISH AND DEBRIS IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR SHALL LEAVE THE PROJECT SITE IN SAFE AND CLEAN CONDITION UPON COMPLETION OF DREDGING OPERATIONS
7. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.
8. WORK SHALL COMPLY WITH APPLICABLE MUNICIPAL, STATE, AND FEDERAL PERMITS AND REQUIREMENTS.
9. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ALL AUTHORIZATIONS NECESSARY FOR CONSTRUCTION AND SPOILS MATERIAL TRANSPORT VEHICLE ENTRY/EXIT/TRAVEL ON STATE AND LOCAL ROADS.

UTILITY NOTES

1. BEFORE COMMENCEMENT OF DREDGING, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER OR OWNER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
3. IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER AND OWNER FOR RESOLUTION OF THE CONFLICT.

FOR CONSTRUCTION



BEFORE YOU DIG
CALL MISS DIG
CALL 1 FULL WORKING DAYS
811 OR 1-800-482-7171

Warning:
It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	
NO.	DATE	ISSUE/REVISION	APP

<i>Designed:</i>	MS
<i>Checked:</i>	SD
<i>Drawn:</i>	MS, HC
<i>Submitted By:</i>	SD
<i>P.E. Number:</i>	44371



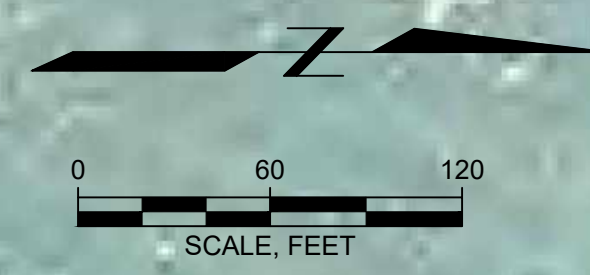
HURON-CLINTON METROPARK AUTHORITY

GEI Project 1903754

LAKE ERIE METROPARK SHORELINE RESTORATION

NOTES

DWG. NO.
N1
SHEET NO.
2 OF 10



SNOW FENCE, 1250 FT
INSTALLED BY OTHERS PRIOR TO THIS
PROJECT AS PART OF PH. 1 BUT LEFT
IN PLACE FOR THIS PROJECT (PH. 2)

TEMPORARY STOCKPILE
LOCATION (WITH SILT FENCE, 815 FT)
INSTALLED BY OTHERS PRIOR TO
THIS PROJECT AS PART OF PH. 1
BUT LEFT IN PLACE FOR THIS
PROJECT (PH.2)

SNOW FENCE, 820 FT
INSTALLED BY OTHERS PRIOR TO THIS
PROJECT AS PART OF PH. 1 BUT LEFT
IN PLACE FOR THIS PROJECT (PH. 2)

WETLAND AREA= 0.55-AC
WETLAND DELINEATION COMPLETED
ON MARCH 10, 2020

10/24/19 WATER LEVEL
574'

EXISTING RIPRAP

10/24/19 WATER LEVEL
574'

EXISTING RIPRAP

10/24/19 WATER LEVEL
574'

LEGEND

- WETLAND DELINEATION ——— REF ———
- OHWM — 573.67 ——— OHW ———
- EX. MAJ. CONTOUR - - - - -
- EX. MIN. CONTOUR - - - - -

NOTE:
FOR MORE DETAIL ON PROJECT DESCRIPTION, PROJECT COORDINATION, CONDITIONS, AND EXPECTATIONS OF THE CONTRACTOR BASED ON THE TRANSITION FROM PHASE 1 OF THIS PROJECT TO THIS PHASE (PHASE 2), SEE SHEET N1.

FOR CONSTRUCTION



Warning:
It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:
If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP
1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	

Designed: MS
Checked: SD
Drawn: MS, HC
Submitted By: SD
P.E. Number: 44371



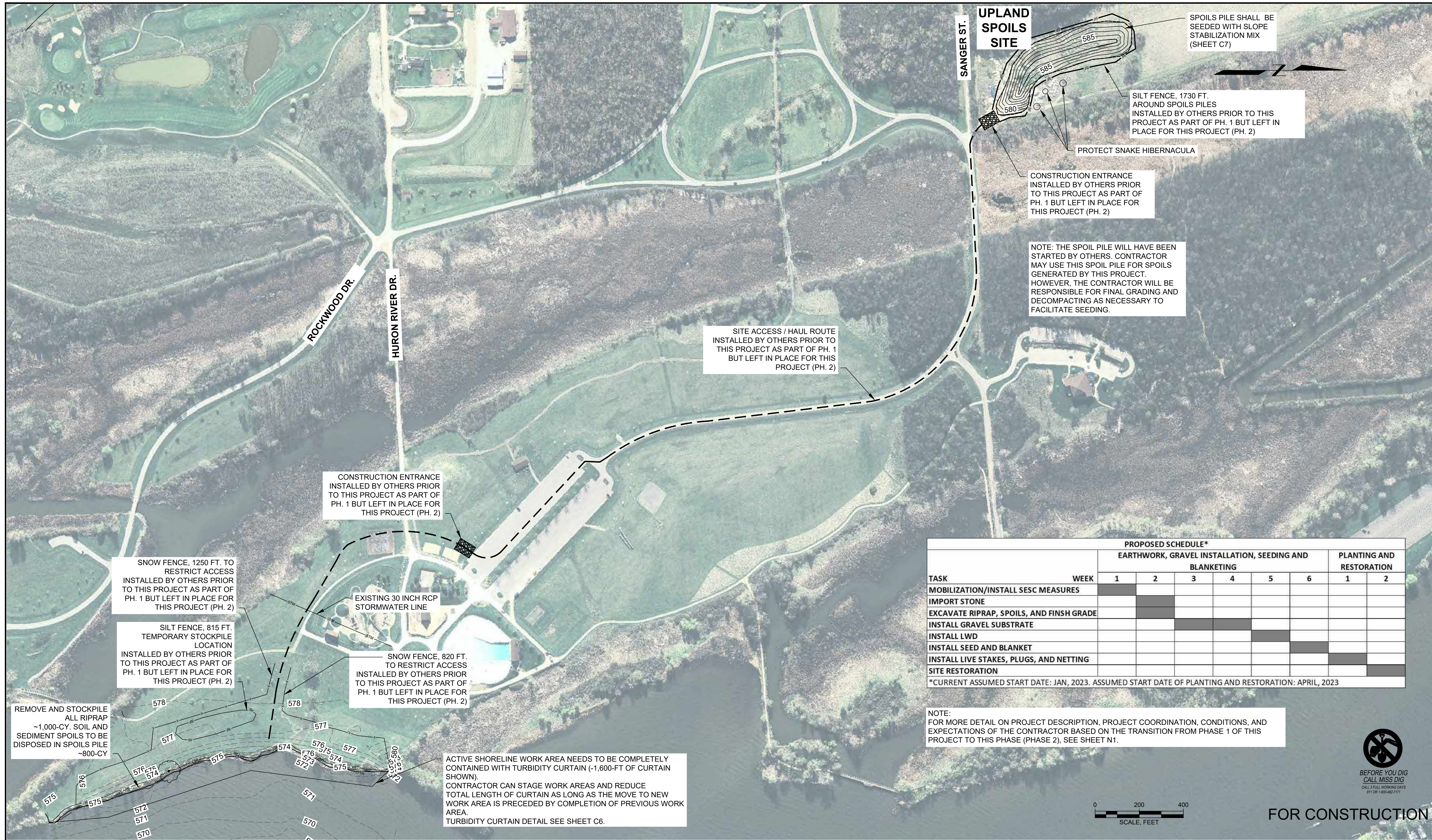
**HURON-CLINTON METROPARK
AUTHORITY**

GEI Project 1903754

LAKE ERIE METROPARK SHORELINE
RESTORATION

EXISTING CONDITIONS

DWG. NO.
C1
SHEET NO.
3 OF 10



UPLAND SPOILS SITE

SPOILS PILE SHALL BE SEEDED WITH SLOPE STABILIZATION MIX (SHEET C7)

SILT FENCE, 1730 FT. AROUND SPOILS PILES INSTALLED BY OTHERS PRIOR TO THIS PROJECT AS PART OF PH. 1 BUT LEFT IN PLACE FOR THIS PROJECT (PH. 2)

PROTECT SNAKE HIBERNACULA

CONSTRUCTION ENTRANCE INSTALLED BY OTHERS PRIOR TO THIS PROJECT AS PART OF PH. 1 BUT LEFT IN PLACE FOR THIS PROJECT (PH. 2)

NOTE: THE SPOIL PILE WILL HAVE BEEN STARTED BY OTHERS. CONTRACTOR MAY USE THIS SPOIL PILE FOR SPOILS GENERATED BY THIS PROJECT. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR FINAL GRADING AND DECOMPACTING AS NECESSARY TO FACILITATE SEEDING.

SITE ACCESS / HAUL ROUTE INSTALLED BY OTHERS PRIOR TO THIS PROJECT AS PART OF PH. 1 BUT LEFT IN PLACE FOR THIS PROJECT (PH. 2)

CONSTRUCTION ENTRANCE INSTALLED BY OTHERS PRIOR TO THIS PROJECT AS PART OF PH. 1 BUT LEFT IN PLACE FOR THIS PROJECT (PH. 2)

SNOW FENCE, 1250 FT. TO RESTRICT ACCESS INSTALLED BY OTHERS PRIOR TO THIS PROJECT AS PART OF PH. 1 BUT LEFT IN PLACE FOR THIS PROJECT (PH. 2)

SILT FENCE, 815 FT. TEMPORARY STOCKPILE LOCATION INSTALLED BY OTHERS PRIOR TO THIS PROJECT AS PART OF PH. 1 BUT LEFT IN PLACE FOR THIS PROJECT (PH. 2)

SNOW FENCE, 820 FT. TO RESTRICT ACCESS INSTALLED BY OTHERS PRIOR TO THIS PROJECT AS PART OF PH. 1 BUT LEFT IN PLACE FOR THIS PROJECT (PH. 2)

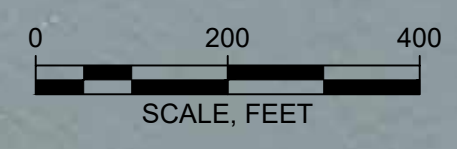
REMOVE AND STOCKPILE ALL RIPRAP ~1,000-CY. SOIL AND SEDIMENT SPOILS TO BE DISPOSED IN SPOILS PILE ~800-CY

ACTIVE SHORELINE WORK AREA NEEDS TO BE COMPLETELY CONTAINED WITH TURBIDITY CURTAIN (-1,600-FT OF CURTAIN SHOWN). CONTRACTOR CAN STAGE WORK AREAS AND REDUCE TOTAL LENGTH OF CURTAIN AS LONG AS THE MOVE TO NEW WORK AREA IS PRECEDED BY COMPLETION OF PREVIOUS WORK AREA. TURBIDITY CURTAIN DETAIL SEE SHEET C6.

TASK	WEEK	PROPOSED SCHEDULE*							
		EARTHWORK, GRAVEL INSTALLATION, SEEDING AND BLANKETING				PLANTING AND RESTORATION			
		1	2	3	4	5	6	1	2
MOBILIZATION/INSTALL SESC MEASURES									
IMPORT STONE									
EXCAVATE RIPRAP, SPOILS, AND FINSH GRADE									
INSTALL GRAVEL SUBSTRATE									
INSTALL LWD									
INSTALL SEED AND BLANKET									
INSTALL LIVE STAKES, PLUGS, AND NETTING									
SITE RESTORATION									

*CURRENT ASSUMED START DATE: JAN, 2023. ASSUMED START DATE OF PLANTING AND RESTORATION: APRIL, 2023

NOTE: FOR MORE DETAIL ON PROJECT DESCRIPTION, PROJECT COORDINATION, CONDITIONS, AND EXPECTATIONS OF THE CONTRACTOR BASED ON THE TRANSITION FROM PHASE 1 OF THIS PROJECT TO THIS PHASE (PHASE 2), SEE SHEET N1.



BEFORE YOU DIG
CALL MISS DIG
CALL 3 FULL WORKING DAYS
811 OR 1-800-482-7171

FOR CONSTRUCTION

LEGEND

WETLAND DELINEATION — WET —

OHWM — 573.67 — OHW —

Warning:
It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:

0 1"

If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP
1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	

Designed: MS
Checked: SD
Drawn: MS, HC
Submitted By: SD
P.E. Number: 44371



HURON-CLINTON METROPARK AUTHORITY

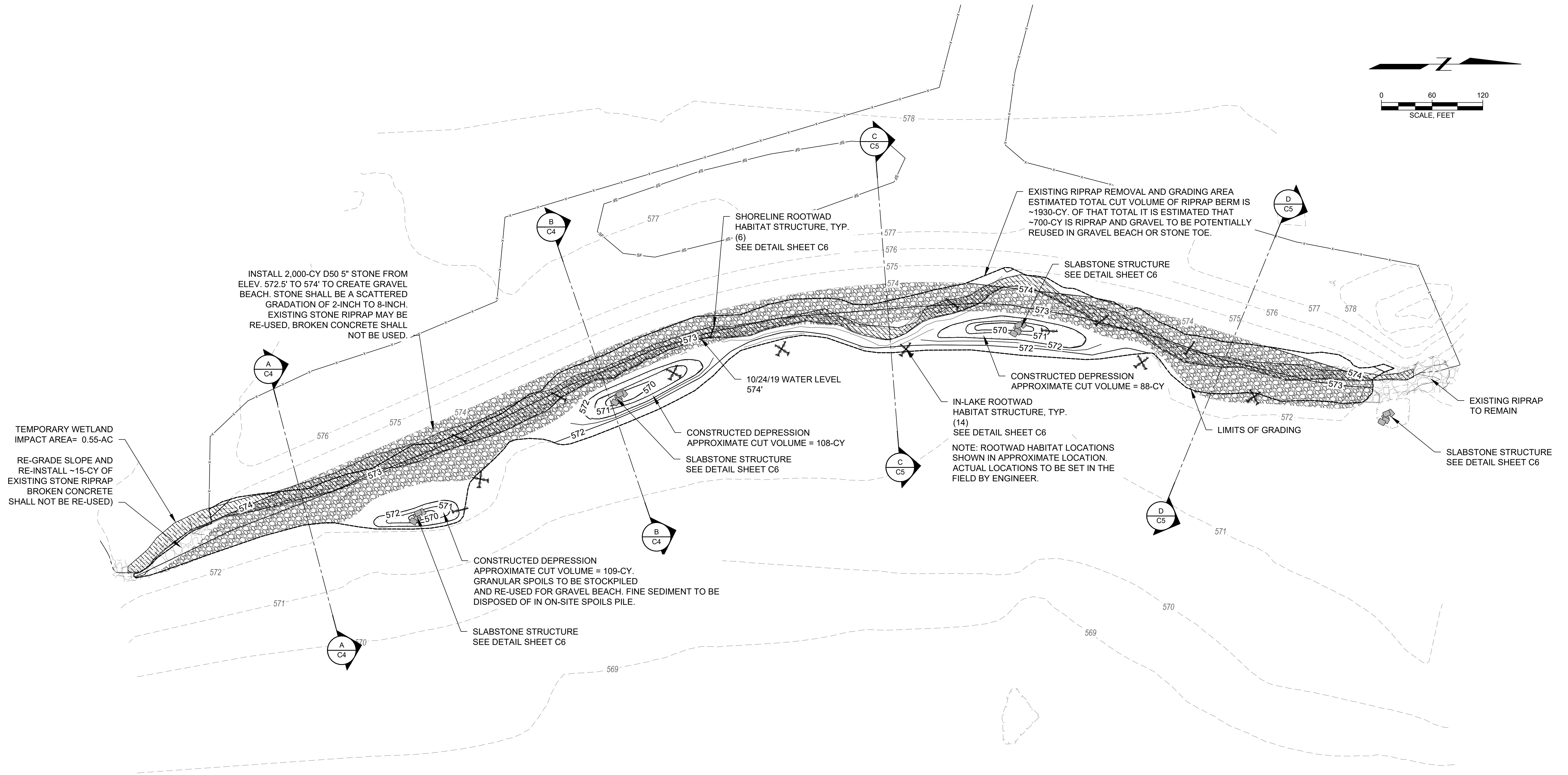
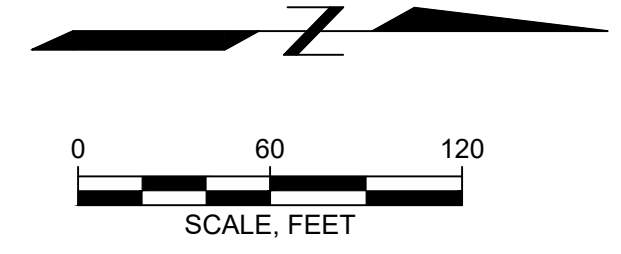
GEI Project 1903754

LAKE ERIE METROPARK SHORELINE RESTORATION

SHORELINE SESC PLAN

DWG. NO. **C2**

SHEET NO. **4 OF 10**



INSTALL 2,000-CY D50 5" STONE FROM ELEV. 572.5' TO 574' TO CREATE GRAVEL BEACH. STONE SHALL BE A SCATTERED GRADATION OF 2-INCH TO 8-INCH. EXISTING STONE RIPRAP MAY BE RE-USED, BROKEN CONCRETE SHALL NOT BE USED.

TEMPORARY WETLAND IMPACT AREA= 0.55-AC
RE-GRADE SLOPE AND RE-INSTALL ~15-CY OF EXISTING STONE RIPRAP (BROKEN CONCRETE SHALL NOT BE RE-USED)

SHORELINE ROOTWAD HABITAT STRUCTURE, TYP. (6) SEE DETAIL SHEET C6

EXISTING RIPRAP REMOVAL AND GRADING AREA ESTIMATED TOTAL CUT VOLUME OF RIPRAP BERM IS ~1930-CY. OF THAT TOTAL IT IS ESTIMATED THAT ~700-CY IS RIPRAP AND GRAVEL TO BE POTENTIALLY REUSED IN GRAVEL BEACH OR STONE TOE.

SLABSTONE STRUCTURE SEE DETAIL SHEET C6

10/24/19 WATER LEVEL 574'

CONSTRUCTED DEPRESSION APPROXIMATE CUT VOLUME = 88-CY

CONSTRUCTED DEPRESSION APPROXIMATE CUT VOLUME = 108-CY

IN-LAKE ROOTWAD HABITAT STRUCTURE, TYP. (14) SEE DETAIL SHEET C6

SLABSTONE STRUCTURE SEE DETAIL SHEET C6

NOTE: ROOTWAD HABITAT LOCATIONS SHOWN IN APPROXIMATE LOCATION. ACTUAL LOCATIONS TO BE SET IN THE FIELD BY ENGINEER.

CONSTRUCTED DEPRESSION APPROXIMATE CUT VOLUME = 109-CY. GRANULAR SPOILS TO BE STOCKPILED AND RE-USED FOR GRAVEL BEACH. FINE SEDIMENT TO BE DISPOSED OF IN ON-SITE SPOILS PILE.

SLABSTONE STRUCTURE SEE DETAIL SHEET C6

EXISTING RIPRAP TO REMAIN

SLABSTONE STRUCTURE SEE DETAIL SHEET C6

LIMITS OF GRADING

LEGEND

EX. MAJ. CONTOUR	-----	PR. MAJ. CONTOUR	_____
EX. MIN. CONTOUR	-----	PR. MIN. CONTOUR	_____
		GRADING LIMITS	-----

EARTHWORK
CUT - 3,480 CY
FILL - 222 CY
NET - 3,258 CY CUT

FOR CONSTRUCTION



Warning:
It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:
If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP
1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	

<i>Designed:</i>	MS
<i>Checked:</i>	SD
<i>Drawn:</i>	MS, HC
<i>Submitted By:</i>	SD
<i>P.E. Number:</i>	44371



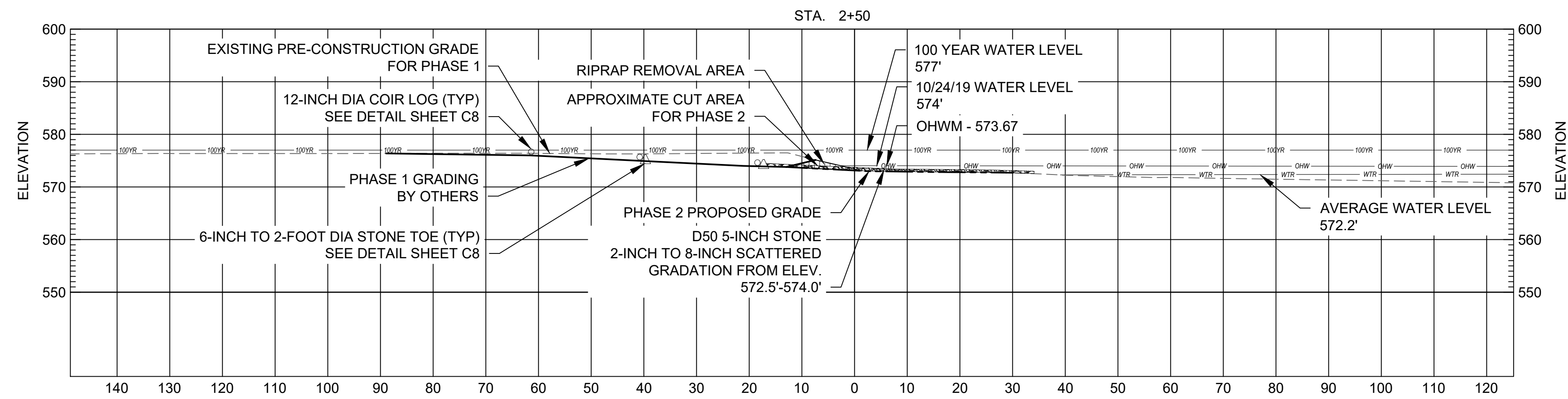
HURON-CLINTON METROPARK AUTHORITY

GEI Project 1903754

LAKE ERIE METROPARK SHORELINE RESTORATION

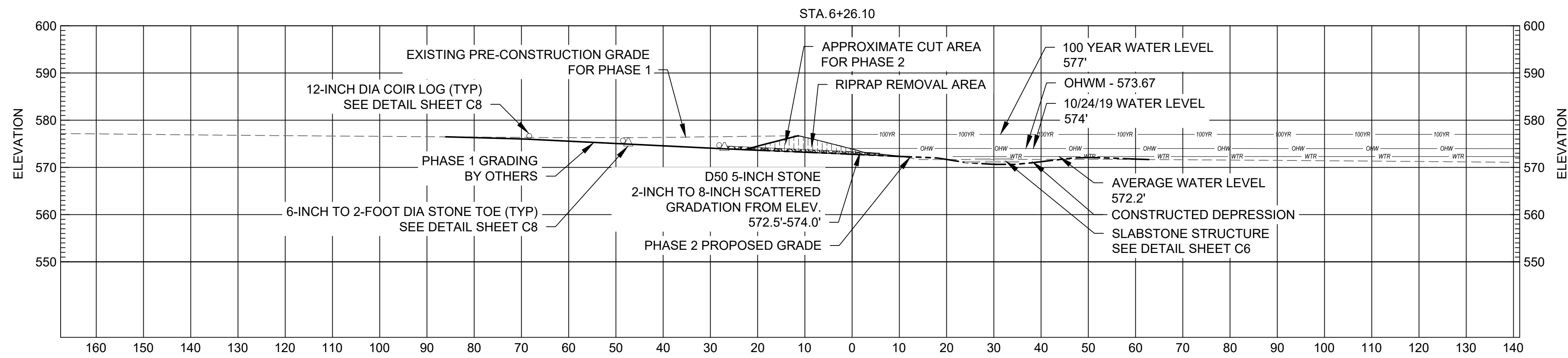
SHORELINE GRADING PLAN

DWG. NO.
C3
SHEET NO.
5 OF 10



A SECTION VIEW
C3

- LEGEND**
- EXISTING PRE-CONSTRUCTION GRADE
 - EXISTING PHASE 1 GRADING
 - PROPOSED PHASE 2 GRADING
 - [Hatched Box] PHASE 2 EXCAVATION AREA
 - [Stone Pattern Box] D50 5-INCH STONE
 - 100YR 100 YEAR FLOOD ELEVATION
 - OHWM OHWM
 - WTR SURVEYED WATER ELEVATION



B SECTION VIEW
C3

FOR CONSTRUCTION

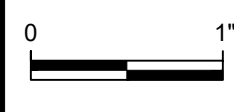


BEFORE YOU DIG
CALL MISS DIG
CALL 3 FULL WORKING DAYS
811 OR 1-800-482-7171

Warning:

It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:



If this scale bar does not measure 1" then drawing is not original scale.

1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	
NO.	DATE	ISSUE/REVISION	APP

Designed:	MS
Checked:	SD
Drawn:	MS, HC
Submitted By:	SD
P.E. Number:	44371



HURON-CLINTON METROPARK
AUTHORITY

GEI Project 1903754

LAKE ERIE METROPARK SHORELINE
RESTORATION

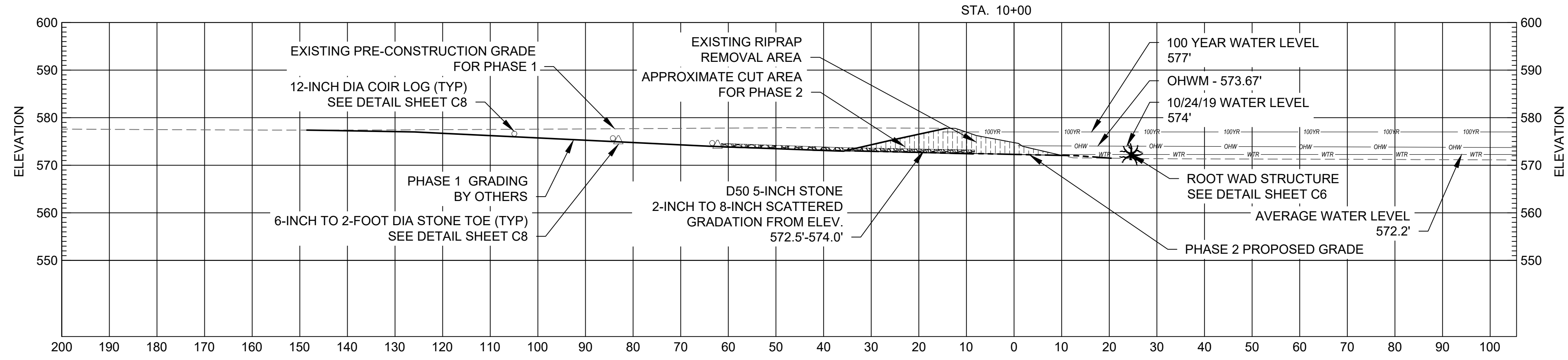
SHORELINE
SECTIONS

DWG. NO.

C4

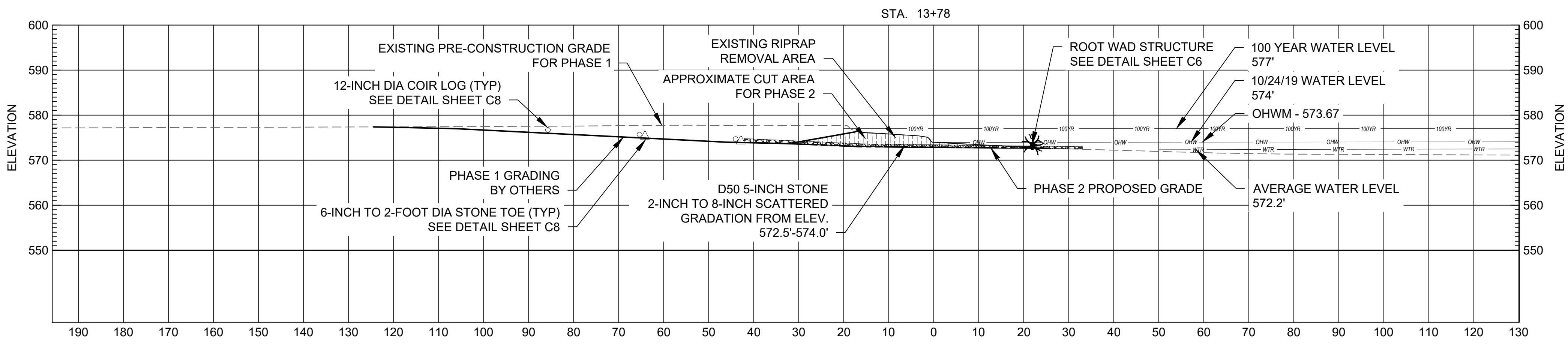
SHEET NO.

6 OF 10



C SECTION VIEW
C3

- LEGEND**
- EXISTING PRE-CONSTRUCTION GRADE
 - EXISTING PHASE 1 GRADING
 - PROPOSED PHASE 2 GRADING
 - [Hatched Box] PHASE 2 EXCAVATION AREA
 - [Stone Pattern Box] D50 5-INCH STONE
 - 100YR 100 YEAR FLOOD ELEVATION
 - OHWM OHWM
 - WTR SURVEYED WATER ELEVATION



D SECTION VIEW
C3

FOR CONSTRUCTION



Warning:
It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:
If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP
1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	

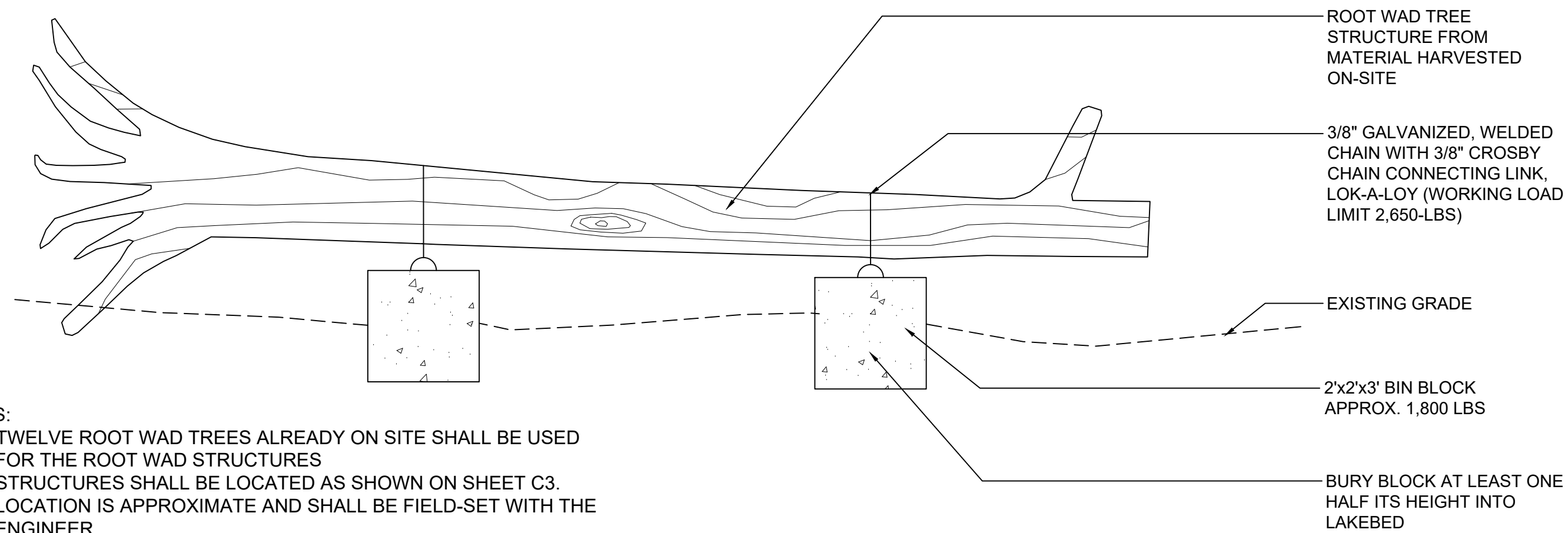
Designed: MS
Checked: SD
Drawn: MS, HC
Submitted By: SD
P.E. Number: 44371



HURON-CLINTON METROPARK AUTHORITY
GEI Project 1903754

LAKE ERIE METROPARK SHORELINE RESTORATION
SHORELINE SECTIONS

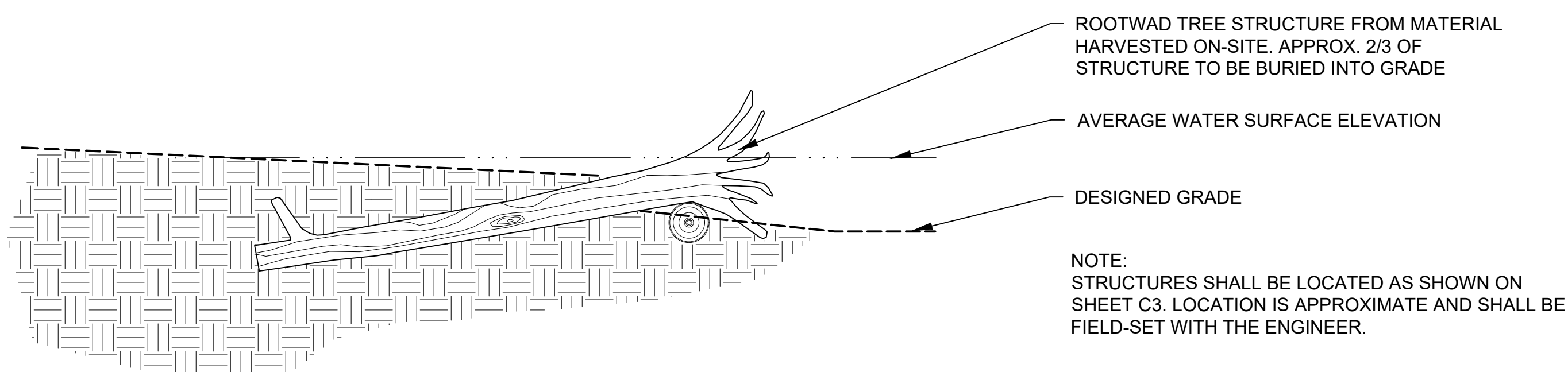
DWG. NO. **C5**
SHEET NO. **7 OF 10**



- NOTES:
1. TWELVE ROOT WAD TREES ALREADY ON SITE SHALL BE USED FOR THE ROOT WAD STRUCTURES
 2. STRUCTURES SHALL BE LOCATED AS SHOWN ON SHEET C3. LOCATION IS APPROXIMATE AND SHALL BE FIELD-SET WITH THE ENGINEER.

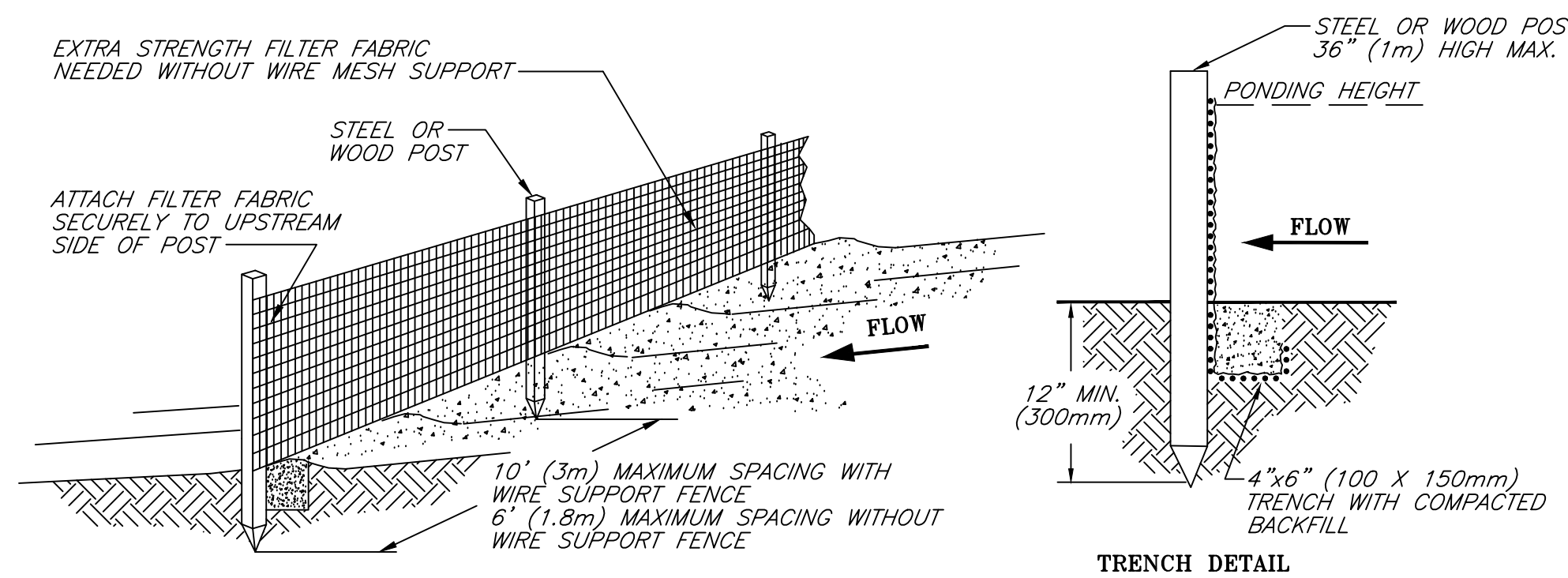
IN-LAKE ROOT WAD HABITAT STRUCTURE

NOT TO SCALE



SHORELINE ROOT WAD HABITAT STRUCTURE

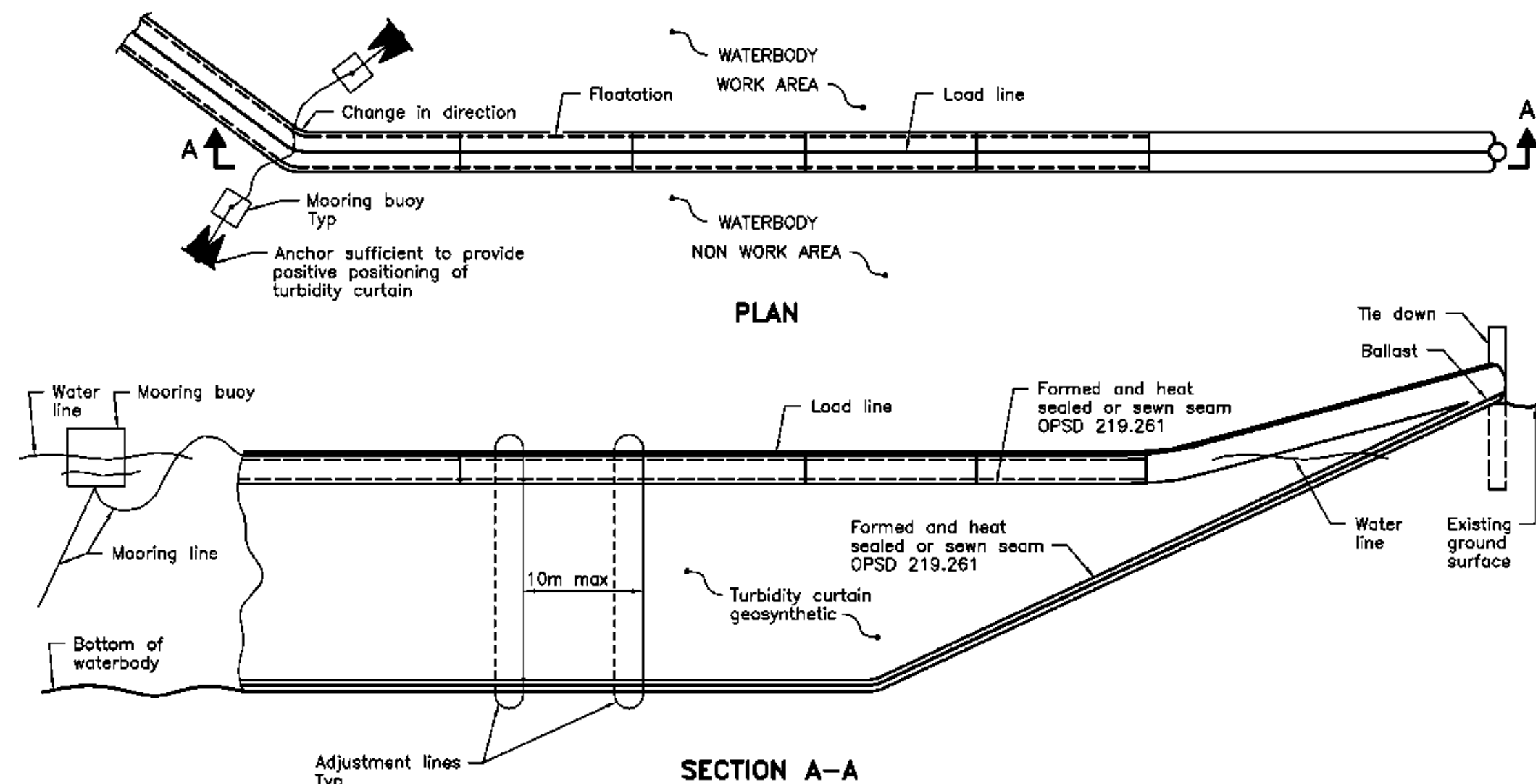
NOT TO SCALE



SILT FENCE

NOT TO SCALE

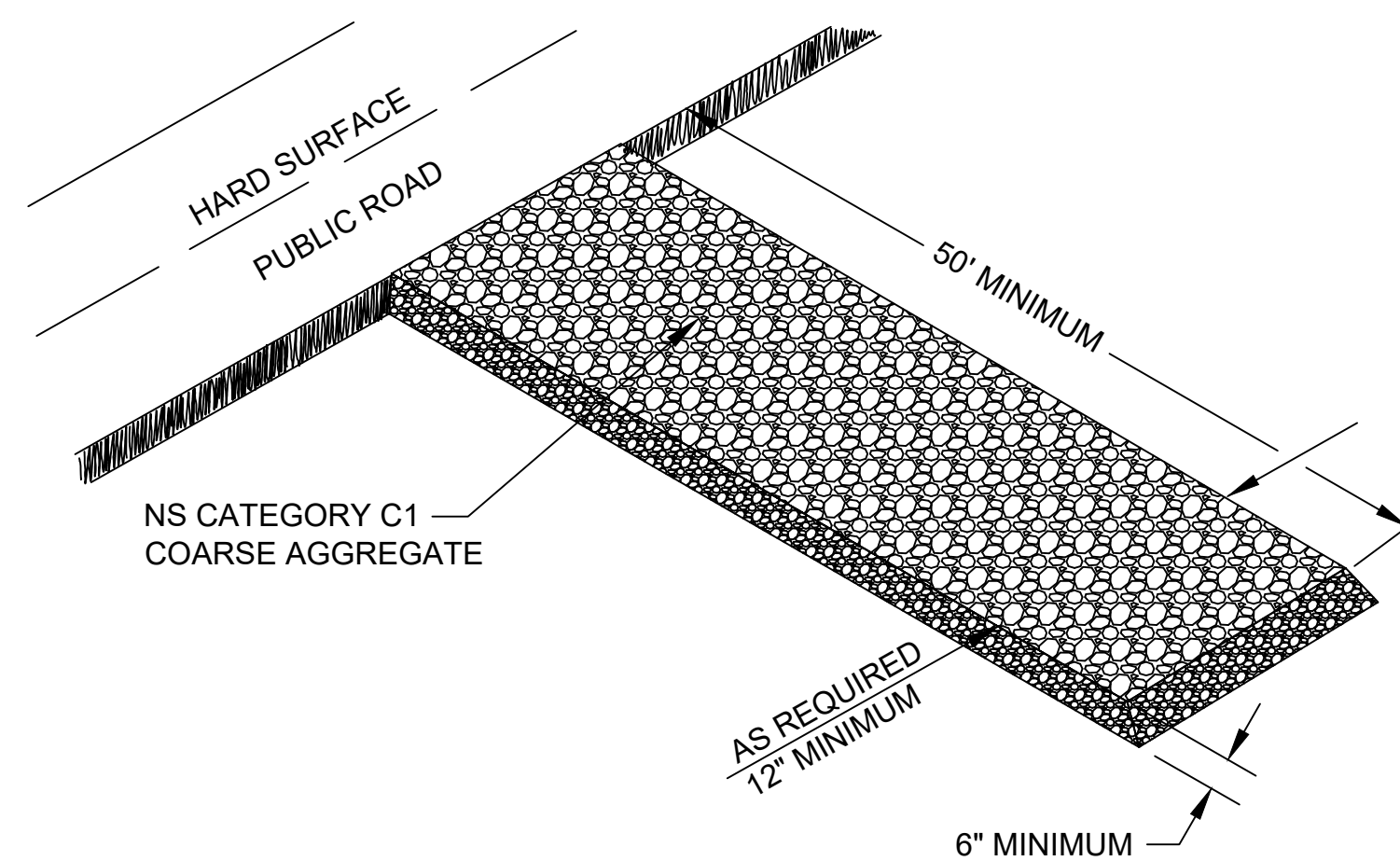
- NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



- NOTES:
- A All dimensions are in millimeters unless otherwise shown.

TURBIDITY CURTAIN

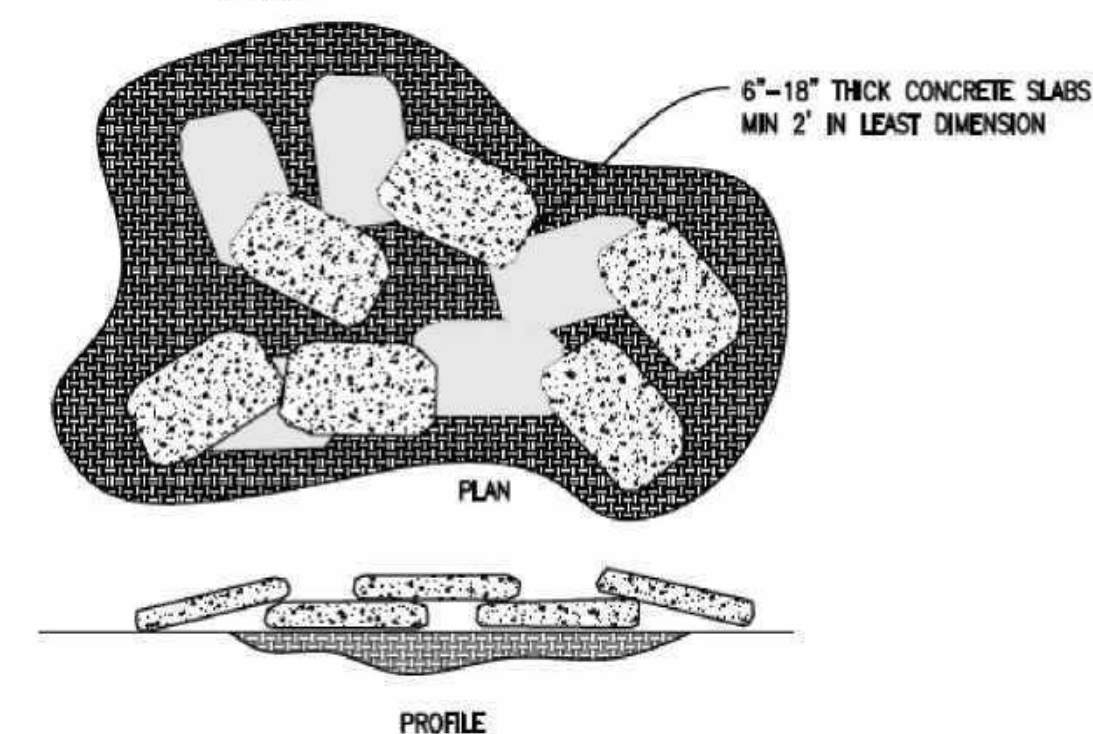
NOT TO SCALE



GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE

- NOTES:
1. 6 TONS OF ROCK REQUIRED PER STRUCTURE. SIZE AND QUANTITY OF SLABS WILL VARY.
 2. SLABS ARE TO BE PLACED RANDOMLY, CREATING VOID SPACES BY LAYERING SLABS ATOP ONE ANOTHER.



SLABSTONE STRUCTURE

NOT TO SCALE

FOR CONSTRUCTION



BEFORE YOU DIG
CALL MISS DIG
CALL 3 FULL WORKING DAYS
811 OR 1-800-482-7171

Warning:
It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:



If this scale bar does not measure 1" then drawing is not original scale.

NO.	DATE	ISSUE/REVISION	APP
1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	

Designed:	MS
Checked:	SD
Drawn:	MS, HC
Submitted By:	SD
P.E. Number:	44371



HURON-CLINTON METROPARK AUTHORITY

GEI Project 1903754

LAKE ERIE METROPARK SHORELINE RESTORATION

SITE DETAILS

DWG. NO.

C6

SHEET NO.

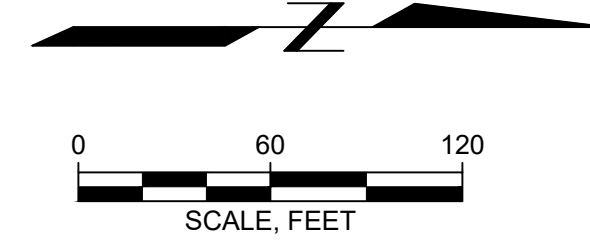
8 OF 10

- NOTES:
- LEDGESTONE STEPS BY CONTRACTOR.
 - ALL PLANTING, SEEDING, AND BLANKETING BY OTHERS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DECOMPACTING, FILLING, AND TOUCH-UP GRADING AS NEEDED TO PREPARE SEEDED/PLANTED AREAS THAT ARE DISTURBED BY CONSTRUCTION TRAFFIC.
 - DECOMPACTION SHALL BE DOWN TO A DEPTH OF ONE-FOOT.

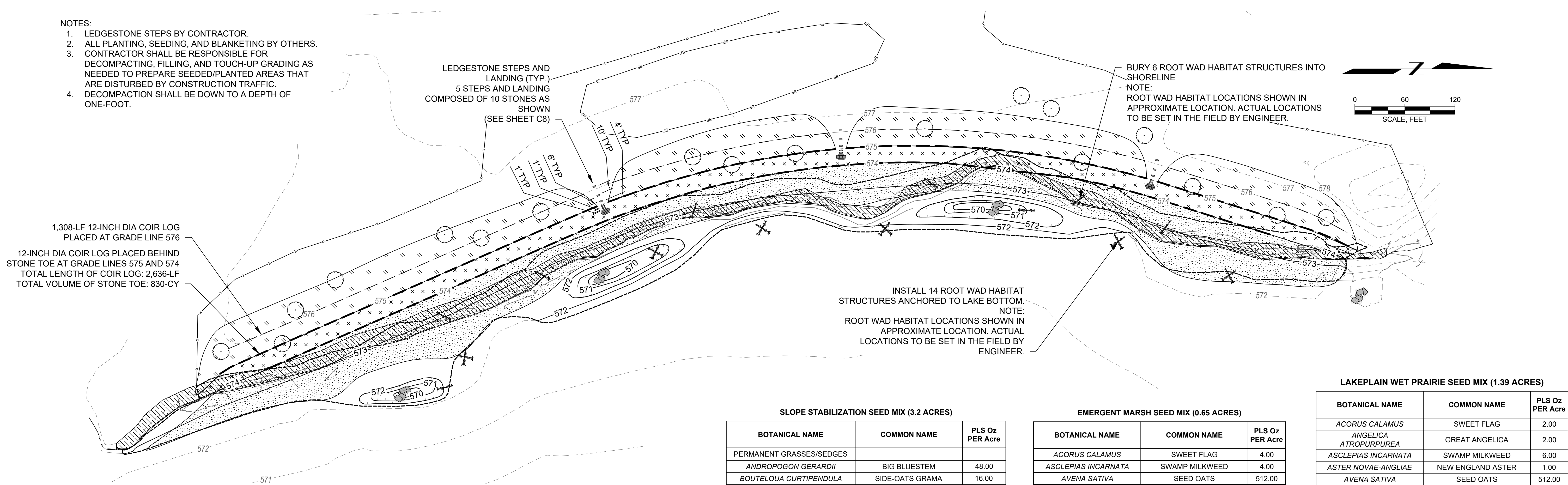
1,308-LF 12-INCH DIA COIR LOG PLACED AT GRADE LINE 576
 12-INCH DIA COIR LOG PLACED BEHIND STONE TOE AT GRADE LINES 575 AND 574
 TOTAL LENGTH OF COIR LOG: 2,636-LF
 TOTAL VOLUME OF STONE TOE: 830-CY

LEDGESTONE STEPS AND LANDING (TYP.) 5 STEPS AND LANDING COMPOSED OF 10 STONES AS SHOWN (SEE SHEET C8)

BURY 6 ROOT WAD HABITAT STRUCTURES INTO SHORELINE
 NOTE:
 ROOT WAD HABITAT LOCATIONS SHOWN IN APPROXIMATE LOCATION. ACTUAL LOCATIONS TO BE SET IN THE FIELD BY ENGINEER.



INSTALL 14 ROOT WAD HABITAT STRUCTURES ANCHORED TO LAKE BOTTOM.
 NOTE:
 ROOT WAD HABITAT LOCATIONS SHOWN IN APPROXIMATE LOCATION. ACTUAL LOCATIONS TO BE SET IN THE FIELD BY ENGINEER.



TREES

BOTANICAL NAME	COMMON NAME
ACER RUBRUM	RED MAPLE
CARYA OVATA	SHAGBARK HICKORY
CELTIS OCCIDENTALIS	HACKBERRY
NYSSA SYLVATICA	BLACK GUM
PLATANUS OCCIDENTALIS	SYCAMORE
QUERCUS BICOLOR	SWAMP WHITE OAK

SLOPE STABILIZATION SEED MIX (3.2 ACRES)

BOTANICAL NAME	COMMON NAME	PLS Oz PER Acre
PERMANENT GRASSES/SEDGES		
ANDROPOGON GERARDII	BIG BLUESTEM	48.00
BOUTELOUA CURTIPENDULA	SIDE-OATS GRAMA	16.00
CAREX SPP.	PRAIRIE SEDGE SPECIES	4.00
ELYMUS CANADENSIS	CANADA WILD RYE	32.00
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	24.00
PANICUM VIRGATUM	SWITCH GRASS	12.00
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	32.00
SORGHASTRUM NUTANS	INDIAN GRASS	32.00
	TOTAL PLS OUNCES	640.00
	TOTAL PLS POUNDS	40.00
TEMPORARY COVER		
AVENA SATIVA	COMMON OAT	512.00
LOLIUM MULTIFLORUM	ANNUAL RYE	240.00
	TOTAL PLS OUNCES	2406.40
	TOTAL PLS POUNDS	150.40

EMERGENT MARSH SEED MIX (0.65 ACRES)

BOTANICAL NAME	COMMON NAME	PLS Oz PER Acre
ACORUS CALAMUS	SWEET FLAG	4.00
ASCLEPIAS INCARNATA	SWAMP MILKWEED	4.00
AVENA SATIVA	SEED OATS	512.00
BIDENS CERNUA	NODDING BUR MARIGOLD	2.00
CALAMAGROSTIS CANADENSIS	BLUE JOINT GRASS	2.00
CAREX VULPINOIDEA	BROWN FOX SEDGE	4.00
DECODON VERTICILLATUS	SWAMP LOOSESTRIFE	0.25
ELEOCHARIS ACICULARIS	NEEDLE SPIKE RUSH	0.50
ELEOCHARIS PALUSTRIS	GREAT SPIKE RUSH	1.00
GLYCERIA STRIATA	FOWL MANNA GRASS	1.00
HIBISCUS MOSCHEUTOS	SWAMP ROSE MALLOW	4.00
IRIS VIRGINICA SHREVEI	BLUE FLAG IRIS	6.00
JUNCUS CANADENSIS	CANADIAN RUSH	1.00
JUNCUS EFFUSUS	COMMON RUSH	3.00
JUNCUS TORREYI	TORREY'S RUSH	0.25
LEERSIA ORYZOIDES	RICE CUT GRASS	2.00
LOLIUM MULTIFLORUM	ANNUAL RYE	160.00
MIMULUS RINGENS	MONKEY FLOWER	1.00
PELTANDRA VIRGINICA	ARROW ARUM	6.00
PONTEDERIA CORDATA	PICKEREL WEED	4.00
RUMEX ORBICULATUS	GREAT WATER DOCK	1.00
SAGITTARIA LATIFOLIA	SAGITTARIA LATIFOLIA	2.00
SAURURUS CERNUUS	LIZARD'S TAIL	0.50
SCIRPUS ACUTUS	HARD-STEMMED BULRUSH	2.00
SCIRPUS ATROVIRENS	DARK GREEN RUSH	2.00
SCIRPUS CYPERINUS	WOOL GRASS	1.00
SCIRPUS FLUVIATILIS	RIVER BULRUSH	2.00
SCIRPUS PUNGENS	CHAIRMAKER'S RUSH	3.00
SCIRPUS VALIDUS	CREBER GREAT BULRUSH	4.00
SPARGANIUM EURYCARPUM	COMMON BUR REED	2.00
ZIZANIA AQUATICA	WILD RICE	32.00
	TOTAL PLS OUNCES	923.40
	TOTAL PLS POUNDS	57.70

LAKEPLAIN WET PRAIRIE SEED MIX (1.39 ACRES)

BOTANICAL NAME	COMMON NAME	PLS Oz PER Acre
ACORUS CALAMUS	SWEET FLAG	2.00
ANGELICA ATROPURPUREA	GREAT ANGELICA	2.00
ASCLEPIAS INCARNATA	SWAMP MILKWEED	6.00
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1.00
AVENA SATIVA	SEED OATS	512.00
BIDENS CERNUA	NODDING BUR MARIGOLD	2.00
BROMUS CILIATUS	FRINGED BROME	2.00
CALAMAGROSTIS CANADENSIS	BLUE JOINT	8.00
CAREX CRINITA	FRINGED SEDGE	2.00
CAREX VULPINOIDEA	BROWN FOX SEDGE	2.00
COREOPSIS TRIPTERIS	TALL COREOPSIS	1.00
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	16.00
EUPATORIUM MACULATUM	SPOTTED JOE-PYE WEED	2.00
EUPATORIUM PERFOLIATUM	COMMON BONESET	2.00
GLYCERIA STRIATA	FOWL MANNA GRASS	2.00
HIBISCUS MOSCHEUTOS	SWAMP ROSE MALLOW	2.00
IRIS VIRGINICA SHREVEI	BLUE FLAG IRIS	5.00
JUNCUS EFFUSUS	COMMON RUSH	2.00
LEERSIA ORYZOIDES	RICE CUT GRASS	2.00
LIATRIS SPICATA	MARSH BLAZING STAR	2.00
LOBELIA CARDINALIS	CARDINAL FLOWER	1.00
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1.00
LOLIUM MULTIFLORUM	ANNUAL RYE	160.00
MIMULUS RINGENS	MONKEY FLOWER	2.00
MONARDA FISTULOSA	WILD BERGAMOT	2.00
PHYCANTHEMUM VIRGINIANUM	COMMON MOUNTAIN MINT	1.00
ROSA PALUSTRIS	SWAMP ROSE	1.00
SAGITTARIA LATIFOLIA	COMMON ARROWHEAD	1.00
SCIRPUS ATROVIRENS	DARK GREEN RUSH	1.00
SCIRPUS CYPERINUS	WOOL GRASS	1.00
SOLIDAGO OHIOENSIS	OHIO GOLDENROD	1.00
SPARTINA PECTINATA	PRAIRIE CORD GRASS	10.00
THALICTRUM DASYCARPUM	PURPLE MEADOW RUE	0.50
VERBENA HASTATA	BLUE VERVAIN	2.00
ZIZIA AUREA	GOLDEN ALEXANDERS	2.00
	TOTAL PLS OUNCES	1446.85
	TOTAL PLS POUNDS	90.43

NOTES:

- SEEDING AND PLANTING WILL BE SELF-PERFORMED BY HCMA. CONTRACTOR IS RESPONSIBLE FOR INSTALLING TOPSOIL AND DECOMPACTION ALL AREAS TO BE SEEDED AND PLANTED, INCLUDING ACCESS AREAS.
- ALL SEEDED AREAS TO BE COVERED IN BIODEGRADABLE EROSION CONTROL BLANKET.
- SEEDING AND BLANKETING PROJECTED DOWN TO ELEVATION ~ 574.0'
- EMERGENT MARSH SEED MIX TO BE INSTALLED FROM ELEVATION 574.0'-575.0'.
- LAKEPLAIN WET PRAIRIE SEED MIX TO BE INSTALLED ABOVE ELEVATION 575.0'.
- PLUGS AND LIVE STAKES TO BE INSTALLED FROM ELEVATION 572.5'-574.0'. PLANTS TO BE INSTALLED INTO STONE MATRIX IN CLUSTERS OF 12"-18" SPACING.
- TREES TO BE SELECTED FROM THE TREE LIST TABLE OR AS APPROVED BY PROJECT ENGINEER. NO INDIVIDUAL SPECIES CAN ACCOUNT FOR MORE THAN 33% OF THE TREES PROVIDED. INDIVIDUAL SPECIES MAY BE GROUPED IN 2-3 PER PLANTING OR INDIVIDUALLY, AND GROUPS SHALL BE MIXED THROUGHOUT THE PLANTING AREA.
- TREES TO BE MINIMUM 1.5" CAL. AT D.B.H. BALLED AND BURLAPPED.

PLUG PLANTS AND LIVE STAKES (1.58 ACRES)

BOTANICAL NAME	COMMON NAME	QTY
SCHOENOPLECTUS ACUTUS	HARDSTEM BULRUSH	1000
SCHOENOPLECTUS PUNGENS	THREESQUARE	1500
SCHOENOPLECTUS TABERNAEMONTANI	SOFTSTEM BULRUSH	1000
CORNUS SERICEA	RED OSIER DOGWOOD	750
SALIX INTERIOR	SANDBARK WILLOW	750
	TOTAL	5000

LEGEND

WETLAND DELINEATION	PR. MAJ. CONTOUR	_____
OHWM - 573.67	PR. MIN. CONTOUR	_____
EX. MAJ. CONTOUR	GRADING LIMITS	-----
EX. MIN. CONTOUR	12" DIA COIR LOG	-----
	STONE TOE AND COIR LOG	-----

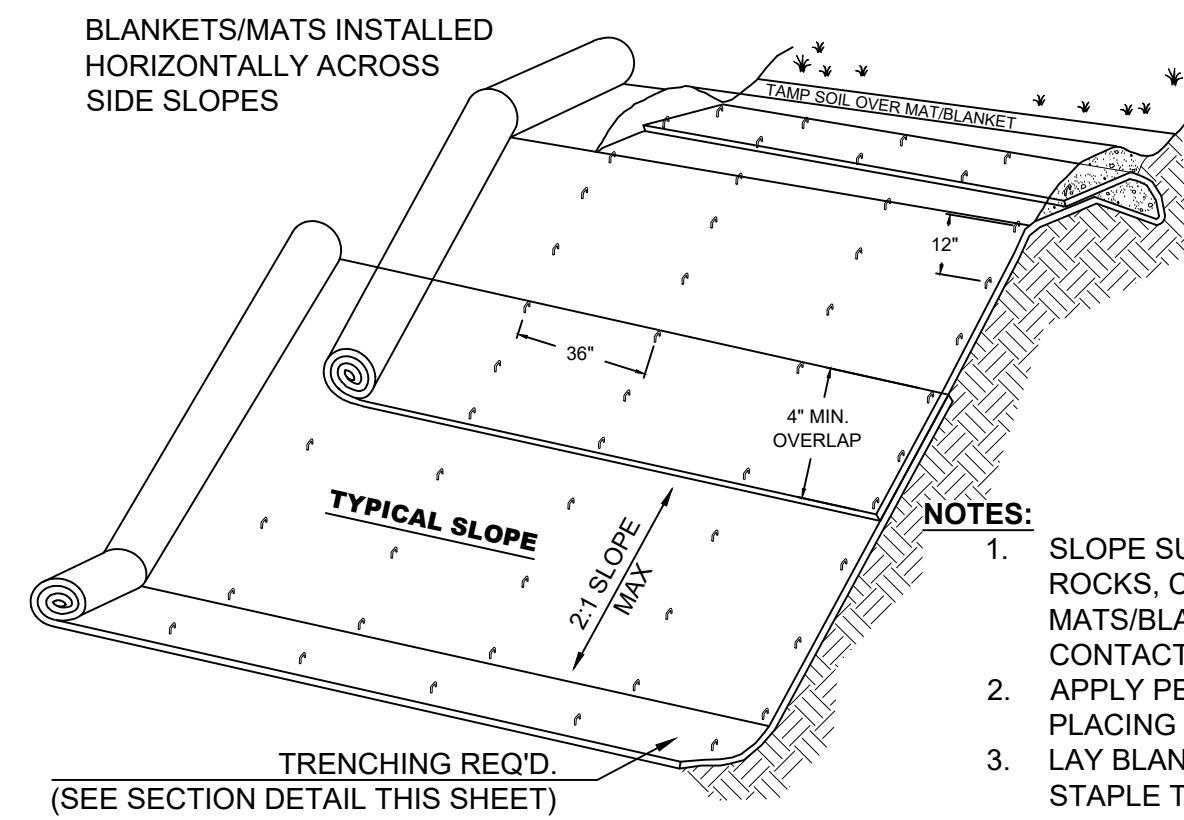
PLANTING LEGEND

EMERGENT MARSH SEED MIX AREA ELEV. 574'-575' (0.65 AC)	
LAKEPLAIN WET PRAIRIE SEED MIX AREA ELEV. >575' (1.39 AC)	
PLUG PLANTS AND LIVE STAKES ELEV. 572.5'-574' (1.58 AC)	
PROPOSED TREE (18)	

<p>Warning:</p> <p>It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.</p>	<p>Attention:</p> <p>0 1"</p> <p>If this scale bar does not measure 1" then drawing is not original scale.</p>	<p>1 6/2/2022 PERMIT SET</p>	APP	<p>Designed: MS</p> <p>Checked: SD</p> <p>Drawn: MS, HC</p> <p>Submitted By: SD</p> <p>P.E. Number: 44371</p>		<p>HURON-CLINTON METROPARK AUTHORITY</p> <p>GEI Project 1903754</p>	<p>LAKE ERIE METROPARK SHORELINE RESTORATION</p>	DWG. NO.
		<p>2 7/1/2022 ISSUED FOR BIDDING</p> <p>3 10/10/2022 ISSUED FOR BIDDING</p>						<p>C7</p>
							<p>SHORELINE PLANTING PLAN</p>	<p>SHEET NO.</p> <p>9 OF 10</p>

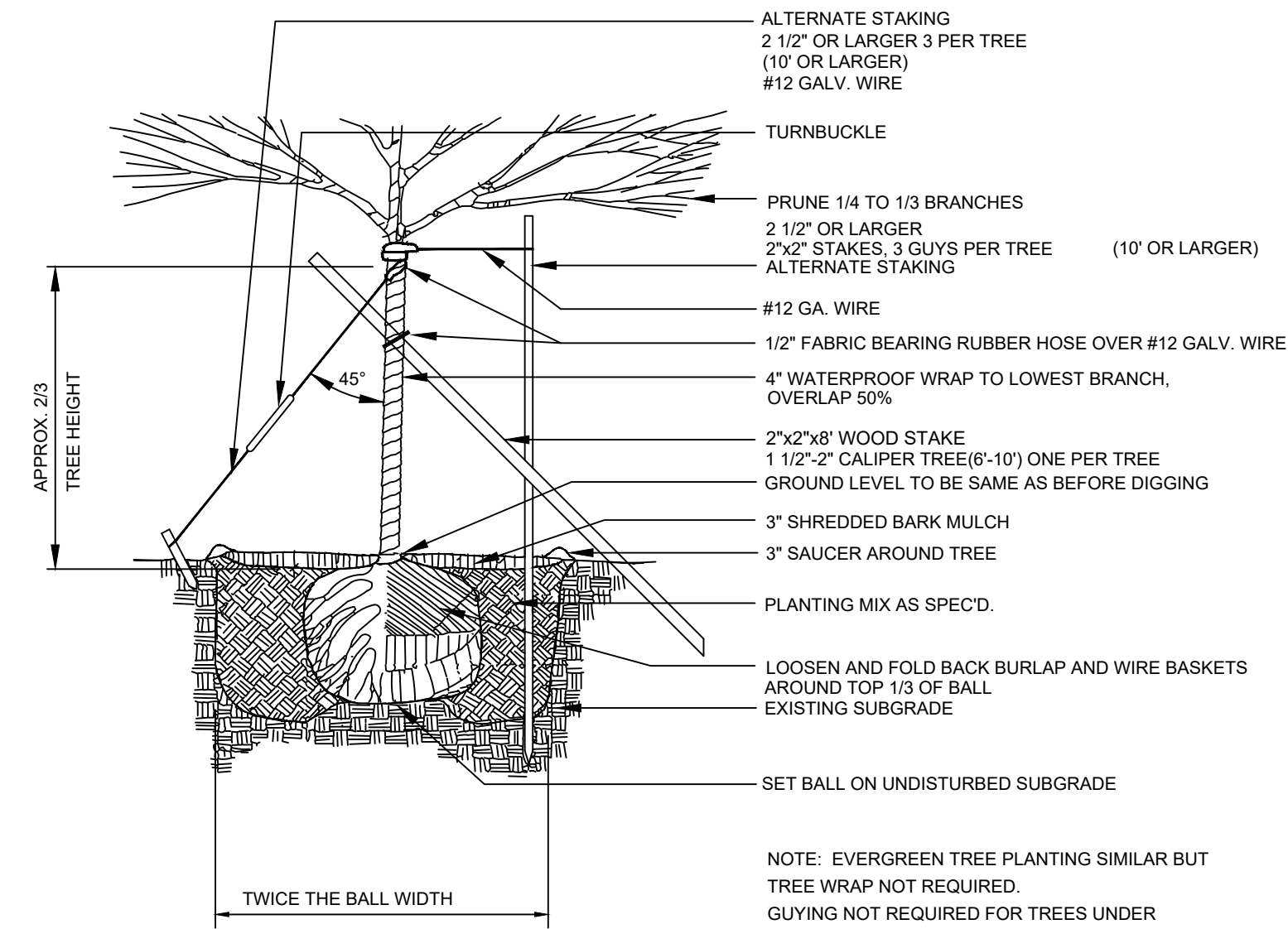


BEFORE YOU DIG
CALL MISS DIG
CALL 3 FULL WORKING DAYS
813 OR 1800-462-7171



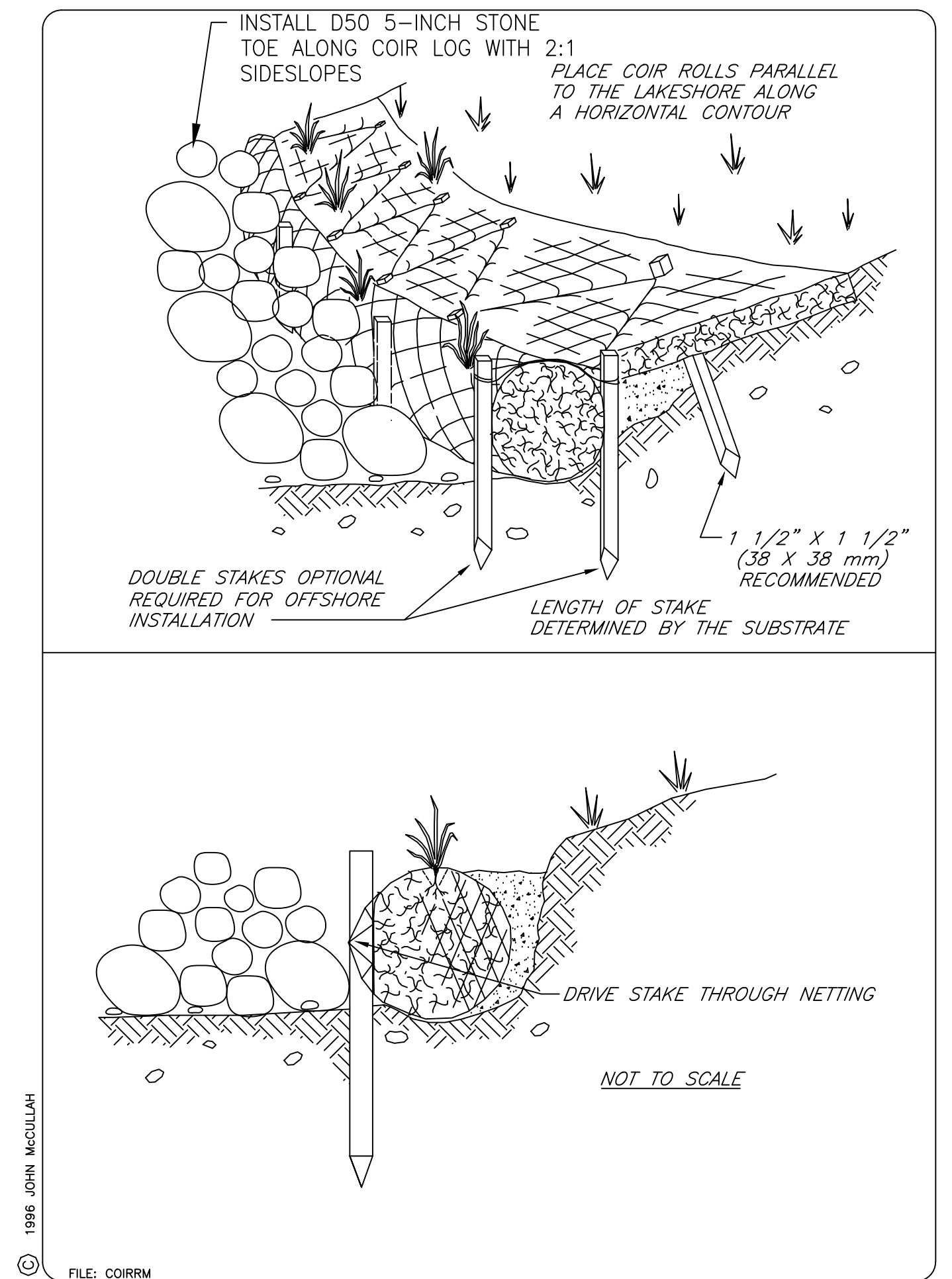
EROSION CONTROL BLANKET

NOT TO SCALE
(BY OTHERS)



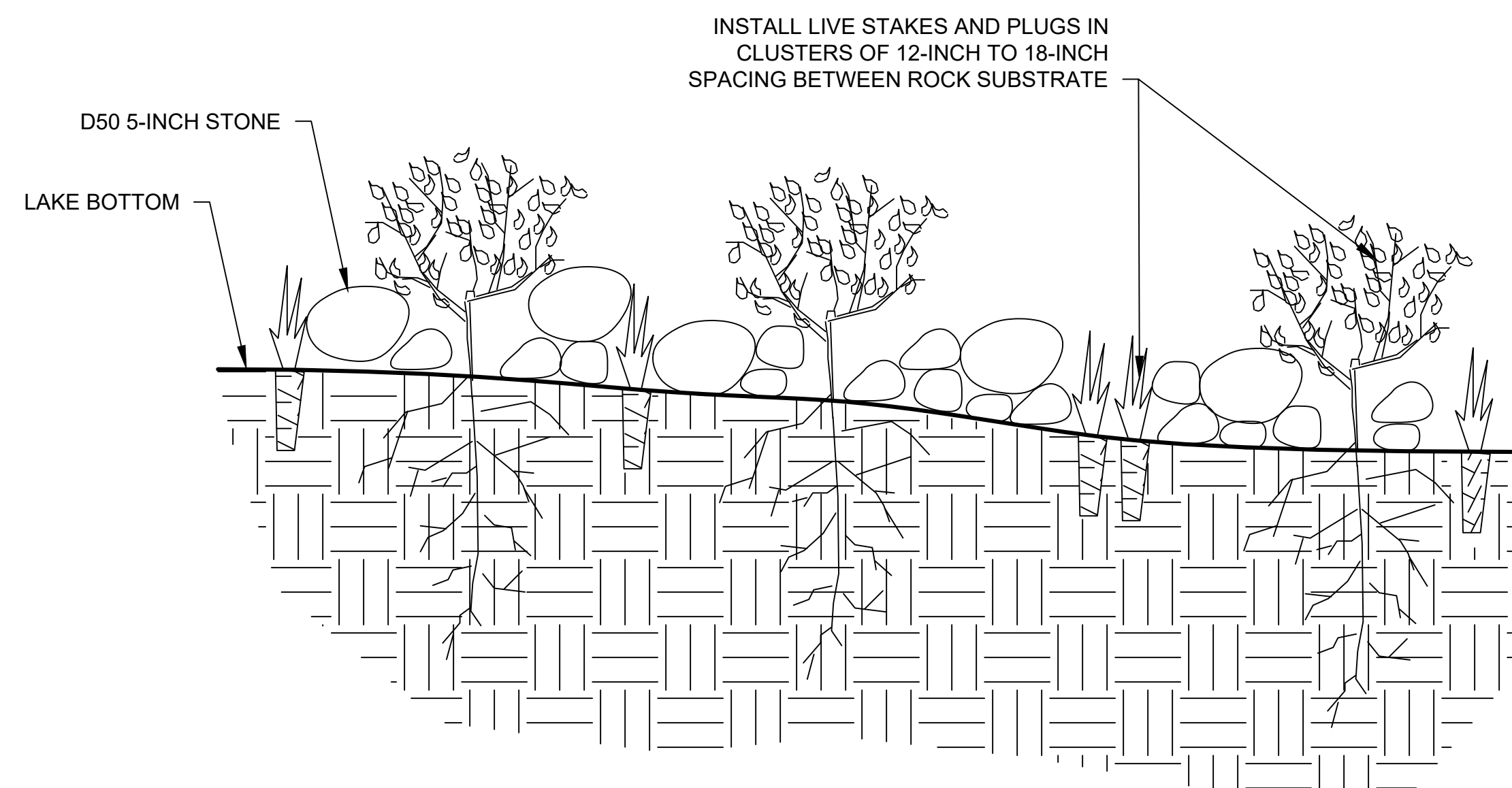
BALLED AND BURLAPPED (B&B) TREE PLANTING

NOT TO SCALE
(BY OTHERS)



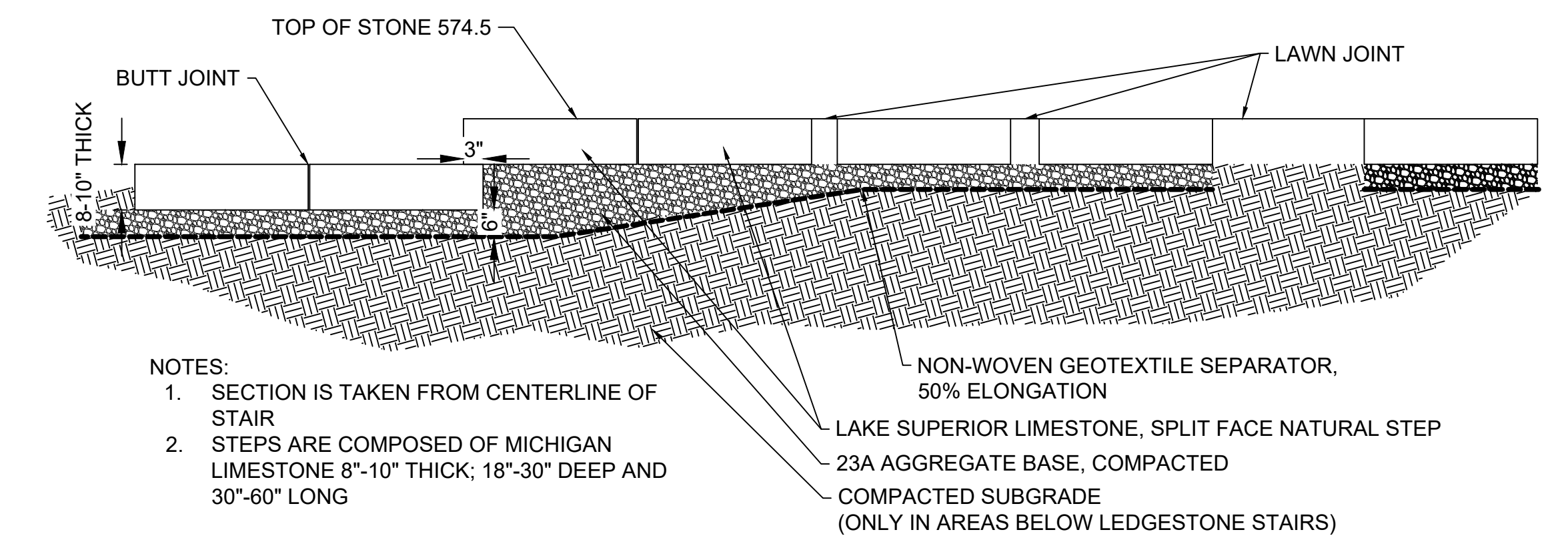
COIR LOG

NOT TO SCALE
(BY OTHERS)



PLUG AND LIVE STAKE PLANTING

NOT TO SCALE



LEDGESTONE STEPS AND LANDING

NOT TO SCALE

FOR CONSTRUCTION



BEFORE YOU DIG
CALL MISS DIG
CALL 3 FULL WORKING DAYS
811 OR 1-800-485-7171

Warning:

It is a violation of Section 7209.2 of the New York State Education Law for any person, unless acting under the direction of a licensed professional engineer, to alter in any way plans, specifications, plats or reports to which the seal of a professional engineer has been applied. If an item bearing the seal of a professional engineer is altered, the altering engineer shall affix to the item his seal and the notation "Altered By" followed by his signature, the date, and a specific description of the alteration.

Attention:



If this scale bar does not measure 1" then drawing is not original scale.

1	6/2/2022	PERMIT SET	
2	7/1/2022	ISSUED FOR BIDDING	
3	10/10/2022	ISSUED FOR BIDDING	
NO.	DATE	ISSUE/REVISION	APP

Designed:	MS
Checked:	SD
Drawn:	MS, HC
Submitted By:	SD
P.E. Number:	44371



HURON-CLINTON METROPARK AUTHORITY

GEI Project 1903754

LAKE ERIE METROPARK SHORELINE RESTORATION

LANDSCAPE DETAILS

DWG. NO.

C8

SHEET NO.

10 OF 10



To: Board of Commissioners
From: Tyler Mitchell, Chief of Natural Resources and Regulatory Compliance
Subject: Report – Monthly Natural Resources Update
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the monthly Natural Resources Report as recommended by Chief of Natural Resources and Regulatory Compliance and staff.

Attachment: Monthly Natural Resources Report

9-F-1-a

NATURAL RESOURCES MONTHLY REPORT

NOVEMBER 2022

Administrative Office
13000 High Ridge Drive
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)

SYSTEM-WIDE

ADMINISTRATIVE

- Preparing for prescribed fire at several locations in city of Detroit parks.
- Finalization of annual shrub and vine control projects and administration.
- MISGP Grant application preparation and fall tree plantings planning.
- Grant reporting and administration for several ongoing grant projects, at Lake Erie, Lake St. Clair, Willow, Indian Springs continues.
- Preparing RFP (Request for Proposal) for green infrastructure project at Lake Erie, and planting and invasive species removal project at Indian Springs continues.



Figure 1: At Willow Metropark, Natural Resources staff utilizes a FLIR infrared camera to detect hotspots within a prescribed fire unit. This tool is able to detect hot areas on and under that ground that might not be visible to the naked eye.

SOUTHERN DISTRICT

LAKE ERIE METROPARK

- Marsh enhancement dredging project completed.
- Phase 1 shoreline restoration project to begin in early December.
- Phase 2 of project to follow immediately after.

OAKWOODS METROPARK

- Prescribed fire unit burned, monitoring continues.
- Grant project to alleviate flooding on nature trails.

WILLOW METROPARK

- Big Bend restoration project underway. Shoreline protection and restoration to occur in coming months, with grading and seeding of new prairie grass area.



Figure 2: Restoration of the North Marsh at Lake Erie Metropark accomplished through dredging displays the marsh retaining water during seasonal low-level conditions.

WESTERN DISTRICT

KENSINGTON METROPARK

- Survey and treatment for Oak Wilt candidate trees throughout the park. Vibratory plow trenching may occur in December if warranted.

INDIAN SPRINGS METROPARK

- Continuing preparation for kick-off of Healing the Huron Headwaters grant project, to include invasive species removal and restoration of trees in the Huron Swamp and West Wetland Complex.
- Working with Michigan Nature Association as a project partner.

HUDSON MILLS METROPARK

- Survey of prescribed fire units to be contracted in 2023.



Figure 3: Natural Resources Crew removes a large tree that was blown over and uprooted as a result of a storm, at the Kensington Group Camp.

EASTERN DISTRICT

STONY CREEK METROPARK

- Administrative staff surveying and planning for potential grant opportunity to restore part of Stony Lake shoreline and enhance fish habitat.

LAKE ST. CLAIR METROPARK

- Final grading and seeding of shoreline project to occur in October and November 2022.
- Native prairie seed will be laid by staff, and erosion protection blankets will be secured. Duck-nesting habitat will also be installed in winter of 2022.

WOLCOTT MILL METROPARK

- Prescribed fire planning for 2023 units, with ground assessments will be done in late fall of 2022.
- Assessment of parcel for potential acquisition along the Clinton River.



Figure 4: Natural Resources, Engineering, Operations, and Planning Department staff meet with the U.S. Army Corp. of Engineers to discuss a shoreline restoration and fish habitat enhancement project at Lake St. Clair Metropark.

WHAT'S NEXT?

SYSTEM-WIDE

- Preparing for 2023 wildlife programs
- Preparing for 2023 and issuing a ITB/RFP, and planning prescribed fires.
- Stormwater and water quality improvement planning with internal staff and partners, cooperation with consultant.

SOUTHERN DISTRICT

- Shoreline restoration project breaking ground in December.
- Culvert repair at Oakwoods to improve drainage on nature trails.
- Eastern Prairie Fringed Orchid survey results and habitat management recommendations, anticipated finalization December 2022.

WESTERN DISTRICT

- Oak wilt survey and testing of candidate trees.
- Eastern Massasauga Rattlesnake population study design and planning.

EASTERN DISTRICT

- Shoreline restoration grading and seeding at Lake St. Clair.
- Lake St. Clair Groundwater study conducted by USGS for beach restoration grant, results available in fall 2022.
- Tree plantings in grant project areas.



To: Board of Commissioners
From: Sarah Plumer, Chief of Planning and Development
Project Title: Report – Planning and Development Department Monthly Update
Date: November 4, 2022

Action Requested: Receive and file

That the Board of Commissioners receive and file the Planning & Development Department Monthly Update as recommended by Chief of Planning and Development Sarah Plumer and staff.

Background: The following are highlights of the activities of the Planning and Development Department for November 2022:

Project/Initiative Implementation

- NOAA Dam Removal Feasibility Study for Huron and Flat Rock Dam RFP under development with assistance from Purchasing Dept.
- Site visit to discuss Scio Township proposed connector from Van Curler property into Dexter-Huron Metropark.
- Climate Action Plan common definition workshop facilitation and focus group participation
- DNR waterways facility inventory completed for inclusion in Community Recreation Plan.

Planning & Community Engagement

- Work plan being developed for DNR and SPARK grants for community and stakeholder input prior to grant submittals.
- Community Recreation Plan district meetings along with input received during individual master plan update meetings compiled.

Land Issues/Opportunities

- Site visit of potential parcel acquisition at Wolcott Mill by P&D staff with park superintendent and Natural Resources staff.

Grants

- EGLE grant coordinator meeting with planning and development staff and park staff at Lake St. Clair to review recycling initiatives and details on recycling services, pick up frequency and MRF site disposal. Fourth quarterly report submitted.
- GLRI-EPA Nonpoint Source Grant kick off meeting with cultural resources consultant along with Stakeholder Meeting #1 scheduled.
- SE Michigan Resilience Fund Big Bend Area Restoration grant stakeholder meeting #4 and public meeting #2.
- High-water infrastructure grants for both LSC North Marina design engineering/permitting and parking lot Phase 3 improvements.
- MDNR Trust Fund Willow Fishing Platform with accessible amenities to replace East Bend Fishing Pier.

Attachment: Planning and Development Department Monthly Update, which includes Monthly Grant Updates



PLANNING AND DEVELOPMENT MONTHLY REPORT

November 2022






Administrative Office
13000 High Ridge Drive
Brighton, MI 48114



[METROPARKS.COM](https://www.metroparks.com)

TABLE OF CONTENTS

Metroparks System-Wide	3
Southern District	6
Western District	9
Eastern District.	12
What's Next	15
Grants Update	

OTHER DEPARTMENT INPUT KEY	
	Natural Resources and Regulatory Compliance
	Planning and Development
	Diversity, Equity and Inclusion
	Interpretive Services and Community Outreach
	Engineering

SYSTEM-WIDE

Restoration – Linear feet or acreage of project impact for shoreline protected or restored, wetlands protected or restored, floodplain protected or mitigated

Invasive Species Management – Linear feet or acreage of project impact treating invasive species

Habitat and Wildlife Protected – Linear feet or acreage of project impact for fish habitat, fish barriers removed or bypassed, species moved or avoided

Partnerships – Outside agency funding sources (total cost/sharing percentage)

Volunteers – Total number of volunteers/workdays

Grant/Foundation Funding – Total funding/match

Visitor Counts – Total number of visitors weekend/weekday








Best practices education – Project emphasizes educational and interpretational opportunities

Estimated cost – Total estimated or actual cost of project

Accessibility – Determine if facility or programs designed for accessibility (A) or if barriers (B) exist based on ADA checklist







Staff time – Total number of staff hours estimated

Administrative










	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
SYSTEMWIDE	Planning and Development monthly reports	Report		Monthly	Staff time	Report assembly, grant monthly updates
	Tollbooth scanning reports	Report		Monthly	Staff time	Ongoing
	Foundation administrative tasks	Various		Ongoing	Staff time	Administrative tasks, Form 990 has been submitted.
	Sign request processing/signage transition plans	Infrastructure/ Small Facilities		Ongoing	Actual cost	Administrative tasks
	CAPRA accreditation preparation	Report	Various	Ongoing	Staff time	P&D support provided for all Chapter Chairs
	CAPRA Programming Ch. 6	Various		Ongoing	Staff time	Documentation assembly
	CAPRA Planning Ch. 2	Report		Ongoing	Staff time	Documentation assembly
	Commemorative trees and benches	Various		Ongoing	Staff time	Administrative tasks, developed policy for bench and tree removals.

SYSTEM-WIDE

HCMA Studies/Initiatives

Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
Community Recreation Plan	Plan		Ongoing	Staff time	Action plan compiled from input received during individual master plan update meetings; Goals and objectives updated based on district meetings
Sustainability Plan projects coordination	Various		Ongoing	Various	CAPRA Sub-Committee working on sustainability policy standards
ADA Transition Plan	Plan		Ongoing	Staff time	Updates ongoing
Visitor count program	Various		Ongoing	Staff time	Summer 2022 raw data visitor count completed Oct. 16 th received from Rec Trac. Joint department presentation to be prepared for January BOC. Bike/ped temporary counters decommissioned
Visitation data documentation and analysis	Report		Ongoing	Staff time	MSU grad student assistance with data analysis
Interpretive Master Plan demographic and other data analysis	Report		Ongoing	Staff time	Support for Interpretive Services staff for interpretive plan development being planned (GIS demographics)

Grants/Fundraising

Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
REI Grant Rouge Park	Plan		Ongoing	Staff time	REI provided another \$8000 in 2022. Materials are being ordered for prairie
GOAL- Various grant opportunities	Plan		Spring '23	Staff time	Applications & Letters of Inquiry (12) for '22 -'23 school year GOAL program
RCWJ Foundation	Plan		Ongoing	Staff time	RFP Regional Non-Motorized Gap Feasibility Study awarded to PEA Group and Greenway Collaborative, Inc.
DTE E-Fleet Program	Plan		Ongoing	Staff time	E-Fleet budgeting for 2023 in process
Livingston Co. Trail Connectors – Engineering Design	Plan		Ongoing	Staff time	Funded in House appropriations; waiting on Senate budget reconciliation to see if it remains funded
Bulletproof Vests for Police Dept.	Plan		Ongoing	Staff time	Requested through US Dept. of Justice via State Police office
Early Learner Education Programming	Plan		Ongoing	Staff time	Program funding requested through PNC and 2 Michigan-based foundations
NEEF Beach Wheelchairs	Plan		Ongoing	Staff time	Manufacturer delay due to parts shortage
Mi Invasive Species Grant Program	Plan		Ongoing	Staff time	Survey for spotted lanternfly & control of tree-of-heaven stands; at IS, Ken, SC, Wol

SYSTEM-WIDE

Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
	EGLE Recycling Bin Grant	Plan	Various	May 2021	Staff time	Meeting with EGLE grant coordinator at Lake St. Clair Metropark to provide overview of grant operations and reporting
	ESRI ArcGIS Administration	Documentation	Various	Ongoing	Staff time	ESRI credit usage and ArcGIS enterprise proposed for 2023 budget

SOUTHERN DISTRICT





Lake Erie Metropark




SOUTHERN DISTRICT

Grants/Fundraising



	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
LEr	2021 TF- Cherry Island Trail Improvements	Large Facilities		April 2021	Staff	Design phase underway
	2021 GLRI-EPA Nonpoint Source Grant	Large Facilities		Ongoing	Staff time	Cultural Resources contractor kick off meeting and stakeholder meeting #1

Project Implementation/Oversight


	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
LHu	Accessible railroad crossing along hike-bike trail	Small Facilities	Eng	2022 Completion	Construction	Meeting with grant coordinator to discuss Ralph C. Wilson design and access funding 2023 project
Wil	SE Michigan Resilience Fund- Big Bend Area Restoration	Large Facilities	Eng/NR	Ongoing	Staff	Stakeholder meeting #4 and public meeting #2 scheduled
LHu	2020 LWCF - Walnut Grove Campground	Documentation	Various	To be completed by 6/30/25	Staff time	Design phase underway following project agreement signed
LHu	2020 LWCF - Off-Leash Dog Area	Documentation	Various	To be completed by 6/30/25	Staff time	Design phase underway following project agreement signed
Oak	NOAA Dam Removal Feasibility Study	Large Facilities		2023	Consultant	DNR provided baseline fish survey information. RFP development underway.

SOUTHERN DISTRICT

Project Implementation/Oversight, cont.

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
LEr	2019 LWCF - Oakwoods Accessible Nature Trail	Large Facilities		Ongoing	Staff time	Design work being scheduled with engineering dept for Nov. 2022
	2019 LWCF - Lake Erie Accessible Boat/Kayak Launch	Large Facilities		Needs to be completed by 6/1/2024	Staff time	DNR project agreement executed, engineering design next step

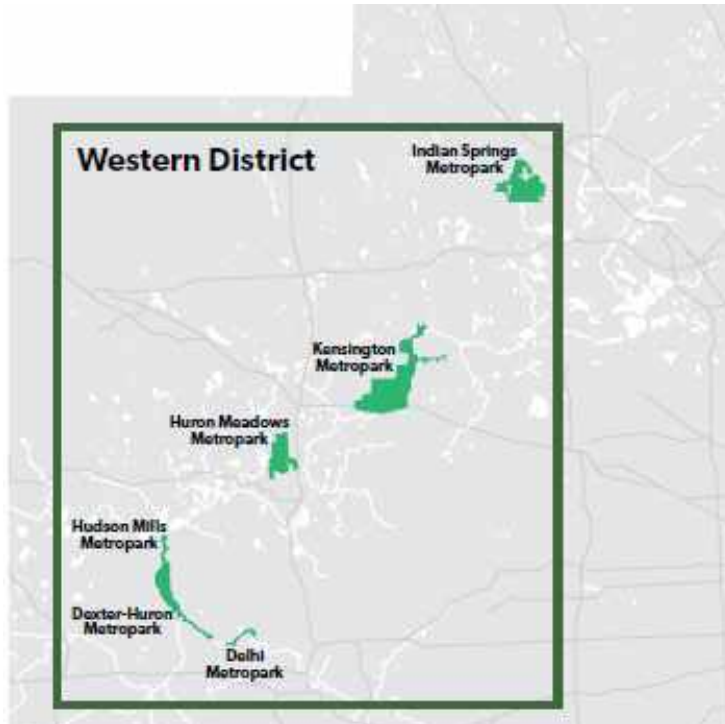
Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
LEr	Lake Erie Shoreline Restoration Project	Spoil Pile Location	Ops . NR	October	Staff time	Phase 2 bidding on MITN, dredging underway
	Adaptive Ballfield Concept Plan	Plan		2022	Staff time	Conceptual planning process phase

HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
LEr	Marina building study	Large Facilities		2022	Consultant	Master planning concept design 75% completed by architect

WESTERN DISTRICT







Environmental Discovery Center at Indian Springs Metropark




WESTERN DISTRICT

Administrative






	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
Del	Border-to-Border trail design and construction	Large Facilities		Ongoing	Estimated Cost	Construction began on B2B segment Zeeb Rd. to Delhi Metropark.
MISC	Livingston County Parks and Open Space Advisory Committee	Partnership		Ongoing	Staff time	Attendance at regular POSAC meetings. Trail counter in place at Fillmore County Park. Data downloaded monthly
	Friends of the Lakelands Trail Steering Committee	Partnership		Ongoing	Staff time	Represent HCMA as a participating steering committee member that meet monthly
	Huron Valley Trail quarterly meeting	Partnership		Ongoing	Staff time	Represent HCMA as a participating partner.

Grants/Fundraising

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
Del	Launch/Take-out Renovation	Large Facilities		Ongoing	Staff time	Final scoring in December

WESTERN DISTRICT

Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
Ken	2019 TF West Boat Launch Accessible Launch Project	Large Facilities		Ongoing	Staff time	Project completed, performing close out documentation
HMills	2019 TF Rapids View Accessible Launch Project	Large Facilities		Ongoing	Staff time	Construction completed; reimbursement documentation in process
DHu	2020 TF – Dex-Huron Accessible Launch	Large Facilities		Ongoing	Staff time	Engineering design resumed
Ken	Impact 100 – Seeding a Green Future	Plan		Ongoing	Staff time	Extension approved – trying to achieve modified educational goals post-COVID closures
	DTE Foundation/DNR Community Forestry Grant	Plan	Maint. Ops	Fall 2022	Staff time	Received grant to plant trees at Hudson Mills and Wolcott Mill.
BP	CE Headwaters Restoration	Partnership		Ongoing	Staff time	MOU with MNA and RFP for invasive control and planting

Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
	None					

HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
HMills	Northwest Passage Feasibility Study Review	Plan	Various	2022	Staff time	Review WCPARC/Dexter Twp. preliminary design

EASTERN DISTRICT




Mill wheel at Wolcott Mill Metropark








EASTERN DISTRICT



Administrative

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
WMIII	Site visit of potential private property acquisition at Wolcott Mill	Land Acquisition		Winter 2023	Acquisition	Site visit with NR and Southern District Superintendent for potential acquisition

Grants/Fundraising



	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
SCR	2022 LWCF/MNRTF- Stony Creek Reflection Trail Accessible Trail Development	Small Facilities		Ongoing	Staff time	Full cost is \$1.2. TF grant is \$300k, LWCF grant is 500k. Cash match is \$826k, \$626k respectively w/30k in-kind engineering
LSC	Michigan Coastal Management Program Grant – Accessible Kayak Launch	Large Facilities	Various	Ongoing	Staff time	Construction underway
	Macomb County Birding Platform	Small Facilities		March 2022	Staff time	Potential site location at nature trails, weir maintenance completed to lower water levels inundating trails.
	2022 LWCF- West Boardwalk Accessibility Improvements	Small Facilities		April 2021	Staff time	Expect higher project cost; match reduced to 50%, supplemental material provided, reduced scope items
LSC	'23 TF Daysail Area Trail	Small Facilities		Ongoing	Staff time	Preparing application for DNR '23 grant
LSC	DNR Community Forestry grant for 100 trees	Small Facilities		Spring 23	Staff time	Waiting for notification in November
	EGLE State High Water Infrastructure	Large facilities	Various	Due 11/30/22	Staff time	Applying for both LSC North Marina and the parking lot project
LSC	Green Macomb (subrecipient)	Plan	Maint. Ops.	Fall 2022	Staff time	Received grant to plant 25 trees at LSC and 20 trees at Stony Creek

Project Implementation/Oversight

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
LSC	Transit Planning for Access to LSC	Large Facilities		2021 Completion	Consultant/Staff	Strategy in progress with SMART for continued marketing efforts and data reporting/analysis for 2023 summer season
	LSC Beach Restoration Project- Nonpoint Source Pollution Project	Large Facilities		2023 Completion	Staff time	Woody vegetation volunteering

EASTERN DISTRICT

Project Implementation/Oversight, Cont.

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
Scr	Shelden Trails Signage Plan	Small Facilities	Mkting	3 months	Staff time	Mapping and signing of ski trails and intersection numbers completed
	26 Mile Connector Trail TAP Grant	Large Facilities		2022 Completion	Staff time	Liquidated damages letter sent to contractor
	Mound Rd. north of fire station sidewalk easement	Small Facilities		2022 Completion	Staff time	Project delayed until spring 2023.
	4CCF Educational field trips at Wolcott and SC	Plan	Various	Ongoing	Staff time	Checks received; website & promotions; program registrations begun

HCMA Studies/Initiatives

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
Scr	None					

Facility Concept Planning

	Description	Action Type	Dept. Input	Timing	Implementation Indicator	November 2022 Actions
IsP	Playground conceptual site plan	Plan	Various	2022	Staff time	Site Plan concept for RFP playground design competition

WHAT'S NEXT?

	Description	Action Type
SYSTEM WIDE	CAPRA documentation assembly	Staff time
	5-County Regional Non-Motorized Gap RFP	Staff/consultants
	Community Recreation Plan Development	Staff
	Electric Vehicle Initiatives	Staff/consultants
EASTER DISTRICT	Site visit with Macomb County staff to discuss North Branch Greenway at Wolcott Mill	Staff time
WESTERN DISTRICT	Programming Evaluations	Staff time
	Northwest Passage alternative analysis review	Staff time
	Van Curler property potential connector study	Staff time
SOUTHERN DISTRICT	GLRI-EPA Nonpoint Source Grant Cultural Review	Staff time
	Adaptive Ballfield stakeholder and community input	Staff time



Grant Updates - November 2022

In Progress

Grant program		JV/MN	Project/Park	Amount	Match	Due Date	Applicant	Notes
Mi Invasive Species Grant Program		MN	IS, KEN, SC, WOL	\$30,000	-	11/1/2022	HCMA	Survey for spotted lanternfly & control of tree-of-heaven; staff match of \$23K
CFSEM RCWJ Fund for Design & Access		MN	LH - IBT, CSX Crossing	~\$50,000	-	12/12/2022	MF	To construct the accessible railroad crossing on IBT at Willow
MDNR Trust Fund		MN	Willow Fishing Platform	TBD	TBD	4/1/2023	HCMA	Fishing platform & accessible amenities to replace E. Bend Fishing pier loss
DNR TF or LWCF		MN	LSC Daysail Area Trail	TBD	TBD	4/1/2023	HCMA	Extends hike/bike trail from W. Boardwalk to Daysail and north to lot A
RCWJ Foundation/Metroparks Connectors		JB	Trail Connectors/SEMTAT	TBD	TBD	TBD	MF	PEA contract on Nov BOC meeting, preparing vision document for RCWJ
EGLE High Water Infrastructure		JB	LSC North Marina	\$240,000	\$60,000	11/30/2022	HCMA	Applying for design engineering & permitting
EGLE High Water Infrastructure		JB	LSC Parking lot	\$1,500,000	\$375,000	11/30/2022	HCMA	For phase 3
DTE		JB	Efleet	TBD	TBD	TBD	HCMA	Need a PO or budget to show purchase of Evs for fleet - wait til Dec.
MNRTF/LWCF		JB	Lake Erie Loop	TBD	TBD	4/1/2023	HCMA	May apply under MDOT TAP - discussing with MDOT on 11/2
DNR Spark Grant		JB	LE Great Wave Pool	\$1,000,000	\$3,000,000	12/19/2022	HCMA	Starting to develop concept for pool liner, deck, and bathhouse

Grant Applications Awaiting Response

Grant program	Project #	JV/MN	Project/Park	Award Amt	Match	Submitted	Applicant	Notes
DNR TF '22		MN	DEL Take-out Renovation	\$300,000	\$302,600	3/30/2022	HCMA	Scored well in preliminary scoring; final scoring end of December
Fed. Community Project via DOT		MN	Liv. Co. Connector Trails Design	\$900,000	-	4/22/2022	HCMA	Funded in House THUD appropriations bill 7/20; in Senate reconciliation
US DOJ Bulletproof Vest Partnership		MN	Police Department	\$8,600	50%	6/23/2022	HCMA	State submitted application to DOJ; notification anticipated by end of Sept.
GOAL		MN	Interpretive Centers	\$3K - \$10K	-	Early Sept.	MF	Applications & Letters of Inquiry (12) in support of GOAL program
Early Learner Programs		MN	W. Dist. Mobile Learning Center	\$5K - \$10K	-	Sept.	MF	PNC & 2 other foundations to support pre-elementary school programming
DNR Community Forestry Grant		MN	LSC Tree Plantings	\$25,000	50%	9/23/2022	HCMA	Project to add 100 new native trees in 5 areas of LSC
Fed. Community Project		JV	LSC North Marina	\$500,000	-	4/14/2022	HCMA	Appropriations request submitted to Lisa McLain for engineering
Macomb Appropriations		JV	LSC North Marina	\$5,000,000	\$1,000,000	5/17/2022	HCMA	Appropriations request for phase 1
LWCF 2022		JV	LSC West Boardwalk	\$500,000	\$500,000	4/1/2022	HCMA	Expect higher project cost; match reduced to 50%, Supplemental material provided, reduced scope items.
LWCF & MNRTF 2022		JV	Stony Creek Reflection Trail	See notes	See notes	4/1/2022	HCMA	Full cost is \$1,155,800. TF grant is \$300,000, LWCF grant is \$500,000. Cash match is \$825,800 & \$625,800 respectively w/\$30,000 in in-kind engineering

Grant Administration

Grant program	Project #	Mgmt	Park/Project	Award Amt	Match	Deadline	Applicant	Updates
LWCF '18	50619.419	MN/JK	LH North Fishing Site	\$144,400	\$144,400	4/30/2022	HCMA	Final reimbursement approved; waiting to receive check
GLRI-FS '18	50219.688	MN/TM	LSC Black Cr Shoreline	\$160,211	-	12/31/2022	HCMA	Extension approved through March '23
Impact 100 - Oakland Co. '18		MN/PB	KFC Seeding Green Future	\$90,000	-	11/18/2022	MF	Request for 1 year extension (due to COVID interruptions) approved
MNRTF '19	50820.218	MN/JK	HMI Rapids View Launch	\$226,400	\$226,900	8/31/2022	HCMA	Closing out grant
LWCF '19	51120.114	MN/?	Oak Access. Nature Trails	\$124,000	\$124,000	2/29/2024	HCMA	Project Agreement executed; design to begin in November
LWCF '20	50621.500	MN/?	LH WGr Campground	\$300,000	\$150,000	6/30/2025	HCMA	Project agreement signed; waiting for Board resolution
MNRTF '20	50821.221	MN/KE	DxH Accessible Launch	\$192,700	\$192,800	5/31/2023	HMCA	Project design has resumed
Ford Volunteer Corps '20		MN/KK	Oak Prairie Plantings	\$4,000	-	11/30/2021	MF	Plugs planted in September; purchasing additional seeds for dispersal
NFWF-SEMRF '21	51021.319	MN/TM	Wil Big Bend Area Restoration	\$250,000	\$177,859	6/30/2023	HCMA	Construction underway to restore riverbank; shelter, parking, drive removed
Ford Volunteer Corps '21		MN/KK	Wolcott Raised Garden Beds	\$7,500	-	11/30/2021	MF	Project complete w/exception of new sign still under development
NEEF-Toyota '21		MN/KK	Beach Wheelchairs	\$20,000	~\$5,000	10/31/2022	HCMA	Manufacturer delay on chairs due to parts shortage; signage being developed
DNR TF '21	512-22-244	MN	LE Cherry Island Trail	\$300,000	\$192,500	7/31/2024	HCMA	Project agreement executed
Consumers Energy Found.	90022.1159	MN	IS Headwater Restoration	\$100,000	-	5/31/2024	HCMA	TM developing MOU with MNA and RFP for invasives control & planting
GLRI-EPA Nonpoint Source	51222.247	MN	Green Infrastructure @ LE	\$483,500	-	4/30/2025	HCMA	Waiting on SHPO study; modified plans developed

NOAA GLs Fish Habitat Restor.	511-22-116	MN	Flat Rock Dam Feasibility	\$745,000	\$25,000	9/30/2024	GLFC	Grant accepted for Phase I feasibility study via GLFC; first team meeting held
Four County Community Found.	11322.1169	MN	Wolcott Mill Farm Center	\$8,000	-	6/29/2022	MF	Programming taking place
Four County Community Found.	10922.1168	MN	Stony Creek Nature Center	\$9,350	-	6/29/2022	MF	Microscopes purchased; programming taking place
Washtenaw 100		MN	S. District Parks/Police Dept.	\$2,157	-	-	HCMA	Training materials, bleeding control kit, & tourniquet purchased
DNR Iron Belle Trail	50529.126	JB/MH	LH IBT Design Engineering	\$82,075	\$23,400	9/1/2023	HCMA	Extension received for field engineering
MNRTF '19	50420.112'	JB	Ken West Boat Launch Dev	\$154,000	\$154,000	8/31/2022	HCMA	Project completed - conducting project close out
LWCF '19	51220.241	JB	LE Kayak Launch	\$122,500	\$122,500	6/1/2024	HCMA	Project Agreement Signed
TAP Grant		JB	SC 26-Mile Connector Trail	\$214,455	\$43,000	12/31/2021	Macomb Co	Liquidated damages letter sent to contractor
Ralph C. Wilson Jr. Foundation		JB	Southern District	\$2,682,755	-	??	MF	Sent project agreement for LE Cherry Island Trial - received \$300k check
REI		JB	Rouge Park Prairie	\$10,500	-	12/31/2022	HCMA	Boulders purchased, grant spent
EGLE Non point source	50220.696	JB	LSC Beach	\$300,000	\$100,000	12/31/2023	HCMA	Woody vegetation volunteer event on 9/29.
EGLE - Recycling		JB	Western & Southern Districts	\$48,816	\$12,204	9/29/2023	HCMA	4th quarterly report submitted
MNRTF '20		JB	LH IBT	\$300,000	\$416,766	6/1/2023	HCMA	Pre-con held on 8/17
LWCF '20	506-21-501	JB	LH Off-Leash Dog Area	\$165,400	\$165,400	6/30/2025	HCMA	Project agreement on Nov BOC meeting agenda
Healthy Catalyst		JB	Adaptive Kayak equipment	\$2,950	\$0	10/30/2020	HCMA	\$166 left to spend. Trained Kensington staff on 8/6
REI	90020.1147	JB	Rouge Park Prairie	\$16,000	TBD	5/4/2021	MF	Boulders purchased, grant spent
NOAA/Great Lakes Commission		JB/TM	Lake Erie Shoreline Restoration	\$1,449,609	\$135,194	extended	HCMA	Phase 2 bidding on MITN, Dredging underway
Renew MI - DRFC		JB	DRFC	\$1,000,000	N/A	4/30/2022	HCMA	Third quarterly report submitted
MCMP		JB	LSC Accessible Launch	\$194,863	\$194,863	12/31/2022	HCMA	Construction underway, quarterly report submitted
Green Macomb (sub recipient)		JB	20 Trees at Stony Creek	\$3,000		12/31/2022	HCMA	Reimbursable at \$150/tree. Gary/Steve to develop plan
Green Macomb (sub recipient)		JB	LSC Tree Plantings	\$3,750	in-kind	9/12/2022	HCMA	Reimbursement for \$150/tree, for 25 trees.
DTE Foundation	90022.1151	JB	Tree plantings at HMI & WMI	\$4,000	\$4,000	6/17/2022	HCMA	Grant agreement signed. Need to substitute some Sugar Maples



To: Board of Commissioners
From: Jennifer Jaworski, Chief of Interpretive Services
Subject: Report – Interpretive Services Department Monthly Update
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file Interpretive Services Department Monthly update as recommended by Chief of Interpretive Services Jennifer Jaworski and staff.

Attachment: Monthly Interpretive Services Department Update



HURON-CLINTON METROPARKS

INTERPRETIVE SERVICES MONTHLY REPORT

November 2022

Administrative Office
13000 High Ridge Drive
Brighton, MI 48114



[METROPARKS.COM](https://www.metroparks.com)

Program/Initiative Implementation

Ongoing:

- **Supplemental science curriculum with DPSCD**
 - Sessions have been held in 4th, 5th, and 8th grades. Along with engagement with 2nd, 3rd, and 7th grades teachers and students.



5th graders at John R. King Academy “making rain”

- **Three Science Clubs led by Community Outreach Interpreter**
 - STEAM (Science Technology Engineering Art and Math) Club at Riverside Academy West
 - STEAM Club takes place at Riverside Academy West, a charter school with Global Excellence Academies in Dearborn. This afterschool club is for grades 6-8 and the 1.5-hour meetings take place weekly on Wednesdays after school. Students do activities related to a different science theme each month. This fall they will be investigating leaves and plant pigments, owls and the solar system. Next semester, field trips to Metroparks and the surrounding community that support the study topics will be added.



4th graders at JRK on a scavenger hunt

Program/Initiative Implementation

- Nature Network Club at Riverside Academy West
 - Nature Network Club takes place at Riverside Academy West, a charter school with the Global Excellence Academies in Dearborn. This afterschool club is for grades 9-12 and the 1.5-hour meetings take place weekly on Thursdays afterschool. Each month one of the club meetings are planned to include an offsite field trip to Lake Erie Metropark or other community nature locations. Students in this club are learning to use technology (cameras, video-editing software, drones, etc.) and social media to share what they experience and learn on their field excursions with the community through social media posts and interpretive media that they are creating for the Metroparks. Careers in STEM and Marketing fields are also being explored in this club.
- Let's Go Outside! Club at Weston Charter Academy
 - Let's Go Outside Club takes place at Weston Charter Academy, a charter school in Detroit. The afterschool club takes place on the third Wednesday of each month. The 1.5 hour meetings are planned to take place entirely outdoors and will focus on a variety of nature topics that build a sense of place for the school yard, including Fall Leaves, Indigenous People who lived here before us, Seasonal Nature Crafts, Animals in Winter, Maple Sugaring and others. The club is planning to conclude with a family camp-out at the school yard.
- **Wi-Fi-hotspots**
 - Library Network and Suburban Library Cooperative
 - 100 hot spots over 5 counties
 - Annual reporting
 - 2021 502 check-out/renewals
 - 2022 776 check-out/ renewals
 - 776 check outs for 7 days at a time
= 5,432 days of use

Testimonial: "We have been busy with schools starting up this month. One mother visited the library and asked for assistance for her daughter who was trying to use the laptop provided by her school. She thanked us for showing her how to use it and then said it was still no good since they didn't have Internet at home. She was more than thrilled when we told her she could check out a free Hotspot, provided by Metroparks. The next week her daughter came in and thanked us for all of our help and let us know that the hotspot allowed her to do her schoolwork. She was so happy to not be left out since the hotspot provided through the Metroparks program allowed her to be included. The partnership between Metroparks and The Library Network is making a difference in our community."

Libraries	County	# of Devices
Fowlerville	Livingston	10
Addison	Oakland	5
Oak Park	Oakland	8
Pontiac	Oakland	5
Waterford	Oakland	5
White Lake	Oakland	5
Ypsilanti	Washtenaw	10
Ecorse	Wayne	5
Hamtramck	Wayne	5
Inkster	Wayne	8
Melvindale	Wayne	0
River Rouge	Wayne	5
Wayne	Wayne	9
Eastpointe Memorial	Macomb	6
Mount Clemens	Macomb	7
Lenox	Macomb	7
Total		100

COMMUNITY ENGAGEMENT

New:

- Detroit Harvest Fest at Dequindre Cut
- Hawkwoods Fall Festival
- Day of the Dead Celebration at Detroit Riverfront
- Pumpkin Palooza
- Hudson Mills Trunk or Treat



HawkWoods Fall Festival

PROGRAMMING

New:



National Association for Interpretation Pandemic Pivot, 2nd Place

The Metroparks and the Michigan Learning channel = A Summer of Learning and Fun

Ongoing:

- **Get Out and Learn scholarships**
 - Started again during the 2022-2023 school year
- **In-person, Synchronous and Asynchronous school programming continues**
 - Senior programming
 - Fall field trips are being scheduled
- **In-person outdoor programming continues, including “pop-up” programs**
 - Staff is utilizing the data in the survey and identifying which programs offered to meet the most need within communities. This data will be utilized for 2023 program planning
- **Virtual/Social Media programming continues**
 - Continuing with Bird of the Week
 - Climate, water and wildlife Wednesdays
 - Building from Washtenaw County Water Commission messaging
 - Creating blogs and videos around water quality, restoration, and wetlands.



Kensington Metropark Trick or Treat on the Trails





To: Board of Commissioners
From: Artina Carter, Chief of Diversity, Equity and Inclusion
Subject: Report – DEI Monthly Update
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file the DEI report as recommended by Chief of Diversity, Equity and Inclusion Artina Carter and staff.

Attachment: DEI Report



DEI BOARD REPORT

November 2022



[METROPARKS.COM](https://www.metroparks.com)

DEI DEPARTMENT

MISCELLANEOUS

- Data collection and development of the first draft of the 2023-2026 DEI Plan; including the first legal review
- DEI Speaker Series with Warren Evans, attended by 38 people
- Research in preparation for LGBTQIA+ DEI Conversation (November)
- Coordination of Management, Leadership and Police DEI training
- DEI Advisory Team meeting and discussion
- Completed UM Ann Arbor's Gender and Sexuality Toolkit course
- Research for 2023 Speaker Series
- 2023 Budget preparation
- DEI 2023 budget
- Development of the DEI Plan
- Management DEI Training Development
- DEI advisory team meeting and introduction meeting for the expanded advisory team
- Development of new advisory team training
- Research mental health event activities
- Research LGBT training for police officers

COLLABORATIONS

- Collaborating with the Howell Carnegie Library and the Livingston County Diversity Council on MLK+ activities (specific dates and time will be included in the December Board Report).
 - January 2023—Family friendly, *original* interactive one man show, “King “Crusader and the Missing Michael” at Howell Carnegie Library
 - February 2023—screening of documentary “I am MLK Jr” at Howell Theater
 - March 2023—TBD
 - April 2023—Gospel Choir Concert at Howell Carnegie Library
- Climate Action Plan; coordination of and participation in focus groups
- Program Steering Committee participation
- Development meeting with Tec-troit for summer Jit Festival

CROSS-DEPARTMENT SUPPORT

- Active membership on the Program Steering Committee
- Served on the Program Steering Review Team with Marketing and Interpretative Services
 - Presented draft plan to Director
- Climate Action Plan (CAP):
 - Development: creation and distribution of staff Focus Area Survey
 - Coordination with Core Team and Marketing on invitations and logistics for focus groups
 - Received IRB approval for the CAP process
- New World Budget Training
- Served on Interview panels
 - Police Department
 - IT Applications Manager
 - Lake Erie Park Operations Manager
- Coordinated DEI Police Training w/ Darnell Blackburn
- Coordinating DEI training for Middle Managers and Supervisors

REMINDER

2022 DEI Speaker Series Featuring



ELLEN OCHOA

Astronaut, 1st Latina in Space, Former
Director of NASA's Johnson Space
Center

Thursday, Dec. 8, 2022

11:00am-Noon



To: Board of Commissioners
From: Danielle Mauter, Chief of Marketing and Communications
Subject: Report – Marketing Update
Date: November 4, 2022

Action Requested: Motion to Receive and File

That the Board of Commissioners receive and file 2022 Marketing Report as recommended by Chief of Marketing and Communications Danielle Mauter and staff.

Attachment: Marketing Update



HURON-CLINTON METROPARKS MARKETING REPORT

October 2022

Administrative Office
13000 High Ridge Drive
Brighton, MI 48814



[METROPARKS.COM](https://www.metroparks.com)

OCTOBER 2022

Fall Campaigns

For the Metroparks, Fall campaigns kicked off on September 15 and run through mid-November when messaging switches to a more holiday focus. Campaigns continued to run ads through October for:

- General Branding – Fall activities and color
- Fall Events and Programs – Illustrated campaign showcasing ALL events and Programs
- Dedicated campaign for larger or new events
 - Sheldon Mountain Bike Fest (successful first year with over 1,000 attendees)
 - Hallowpalooza at Lake St. Clair (successful full “treater” registration early in registration period)
 - Thrills at the Mills at Hudson Mills (successful first year with around 30 trunks, many activities and a steady stream of attendance)
 - Evening Lantern Tours at Oakwoods
 - Trick-or-Treat along the trails – multiple locations
 - Field trips and education
 - November Owl Programs

Additionally the campaign for 2023 Annual Passes going on sale will kick off on November 1. The month of October was spent organizing details for a smooth launch of that campaign. Campaign elements include:

- Signage has been ordered for toll booths that will be installed on Nov 1. It includes pricing stickers with all the standard rates that stays up through next year. Also signage for toll booth windows and poster frames for entrances that will be in use Nov 1 through Dec 31 to advertise the dicounted rate for residents if they buy early.
- Radio ads
- Digital/social ads
- Print ads in various publications
- Press release
- Email blasts
- Organic social media posts through the end of the year
- Annual pass messaging weaved into many other communication pieces we use/send including holiday and gift giving messaging in late Nov/December.

Education Storytelling

Throughout late September and all of October, we focused on sharing storytelling out about the Metroparks efforts to support teachers and students through innovative programming and partnerships. The goal with these pieces is to create the ongoing story line in the public eye about the Metroparks focus on education and draw excitement around them and around potential future opportunities. Stories are being shared through media pitching, press releases, articles on our website and share in e-newsletters and social posts. Attached are the stories that have been shared so far. More will continue throughout the school year as well.

Swim Lesson Partnerships

Summer 2022 wrapped up successfully with FREE swim lessons impacting more than 1,000 youth in the region. The story and video piece about the program efforts was shared via press release as well as our website <https://www.metroparks.com/everyone-in-the-pool/>

Additionally, a wrap up and debrief meeting was held with all partners in October where a high level of excitement was shared about continuing to work together next year to make even greater impacts. There is also interest and discussion around addressing gaps and struggles all partners are having such as staffing, lifeguard training and “feeder stream” and “parent-tot” type classes.

We’re currently working with partners on four potential locations for school-year winter swim lessons as well to keep programming continuing year-round. More details and information coming soon. Lessons would be held around spring break/winter timeframe in early 2023.



CONTACT:
Huron-Clinton Metroparks
Danielle Mauter
Danielle.mauter@metroparks.com;
810-494-6009

FOR IMMEDIATE RELEASE

Teachers are Prepared to Shape Future Leaders This Year Through These Metroparks Programs

DETROIT, Mich. - It's more important than ever for our students to learn to connect with their natural environment, especially in Michigan where environmental resources play a valuable role in Michiganders' lives and the statewide economy. But in order to do that, teachers need to be equipped with green knowledge and resources they can take to the classroom. That's why the Huron-Clinton Metroparks have joined forces with community partners throughout Metro Detroit to give teachers the tools they need to help build the stewards of our future.

This year, the Metroparks partnered with Macomb County Head Start, a federally funded full-spectrum educational program for teachers of children ages zero to five from at-risk backgrounds, to host multi-day environmental training sessions for 200 teachers at Lake St. Clair Nature Center. The program focused on training educators how to teach outside and investigative ways to engage with nature.

The Metroparks hosted four, two-hour sessions. Macomb County estimates a total of 2,100 students will be reached through this teacher training program and plan on increasing enrollment in 2023.

"One of the greatest impacts we can make toward a green future is investing in our students' education, and we can't do that without investing in our educators," said Metroparks Director Amy McMillan. "Educators have one of the most important jobs in the world, and it's all of our responsibility to help them succeed."

Over the summer, the Metroparks teamed-up with Macomb Intermediate School District and offered workshops that taught educators different environmental learning projects they can do with students year-round in any sized-space. Teachers who attended earned State Continuing Education Clock Hours (SCECHs), an accreditation of 150 hours they're required to complete every five years. The workshops focused on how to engage students with hands-on outdoor learning. They were hosted two weekends in July at Lake St. Clair, Oakwoods and Stony Creek Metroparks.

Metroparks also worked with a teacher from Lapeer County Intermediate School District last spring to host a vocational high school student at Wolcott Mill Metropark Farm Center, a fully-functioning farm, through a program designed to give students practical farming experience. This is part of a year-round program designed to give students real hands-on learning experience of a farmer.

"The Metroparks are rich in environmental resources, and we're always thinking of creative ways to use them to uplift our youth," shared Metroparks Chief of Interpretive Services, Jennifer

Jaworski. “Our future is in their hands, and when we equip them with the right knowledge, we’re making our future brighter.”

The Metroparks also supports teachers through the following organized programs:

Free field trips

- Free experiential field trips to public schools in select townships of Clair County, Lapeer County, Macomb County and Oakland County funded through a grant from the Four County Community Foundation (4CCF). <https://www.4ccf.org/>
- Trips include free transportation to Stony Creek or Wolcott Mills Metroparks for hands-on activities related to agriculture, history, nature and science.
- The program will run through the 2022-2023 school year.

Get Out and Learn

- Scholarship program funded by the Metroparks that offers free field trips or in-school programs for schools in Southeast Michigan, including transportation and programming fees.
- To qualify, schools must have at least 50% of students eligible for the federal free and reduced lunch program.

Teachers can learn more or apply by visiting

<https://www.metroparks.com/education/#EDUCATIONALGRANTS>.

###

About Huron-Clinton Metroparks

One of America’s premier metropolitan park systems, the Huron-Clinton Metroparks have served the people of Southeast Michigan since 1940. Managed by the Huron-Clinton Metropolitan Authority, the Metroparks are made up of 13 properties in Livingston, Macomb, Oakland, Washtenaw, and Wayne counties. The Metroparks are open 365 days a year and encompass 25,000 acres of nature and recreational facilities. Each year more than 1.5 million people engage with the Metroparks to enjoy amenities such as picnicking, fishing, swimming, boating, hiking, nature study, biking, golf, disc golf, cross country skiing, sledding, snowshoeing and a diversity of outdoor programs and special events. The Metroparks also provide educational resources on science, nature, history and the environment. Learn more at [Metroparks.com](https://www.metroparks.com).



CONTACT:
Huron-Clinton Metroparks
Danielle Mauter
Danielle.mauter@metroparks.com;
810-494-6009

FOR IMMEDIATE RELEASE

Metroparks and DPSCD Provide Hundreds of Detroit Students with Free Hands-On Environmental Learning to Help Address Educational Equity in Southeast Michigan

DETROIT, Mich. - The Metroparks have partnered with Detroit Public Schools Community District (DPSCD) to offer interactive recreational and environmental learning programs to underserved students in Detroit to help address educational equity in southeast Michigan.

Last spring, the Metroparks and DPSCD hosted nearly 1,000 middle school and high school students from 21 Detroit public schools for a combined physical and educational experience.

Through the partnership, there were a total of 32 field trips to Oakwoods, Willow, Lake Erie, Stony Creek and Lake St. Clair Metroparks, where students participated in activities like biking, foot golf, pickleball, shuffleboard and volleyball. Students also hiked with a Metroparks interpreter who provided environmental education along the way.

"I can't wait to tell my mom I biked six miles around this lake! I need to bring her here," shared one student, who didn't want to leave the park without a map to bring home and show off what she accomplished.

"It's essential for our students to get outside and spend time with Michigan's beautiful natural resources," said Metroparks Director Amy McMillan. "We have 25,000 acres of nature's classroom at our fingertips here in the Metroparks that serve as great learning tools for students, and our goal is to make sure every student in southeast Michigan has equitable access to that space to help them learn and love the outdoors."

The DPSCD physical education partnership will continue annually with seasonal recreational field trips, including snowshoeing and cross-country skiing as weather allows, to offer diverse experiences for students to enjoy.

Metroparks and DPSCD have also joined forces to provide supplemental science lessons to over 400 4th, 5th and 8th grade public school students in Detroit this October. The program is being launched this fall as a creative solution to supplement what passionate teachers are already doing and addressing education gaps for underserved communities.

"What makes these programs so impactful is that students are given the opportunity to lead through their own investigative interests," said Jennifer Jaworski, Metroparks Chief of

Interpretive Services. “And it’s this type of first-hand learning that helps students retain information and be more intentional when engaging with our natural environment.”

Students participate in interactive educational activities outdoors where they observe wildlife and learn about native trees, plants and vegetation around their own school yard. Science lessons are being offered twice a week the entire school year to all 4th, 5th and 8th grade students at John R King Academic and Performing Arts Academy in Detroit.

Additionally, Metroparks staff will be working with 2nd and 3rd grade teachers at the academy to inspire lesson plans that include engaging outdoor learning, and to schedule interactive outdoor fieldtrips at the Metroparks later in the school year. In total, this will supplement and expand student learning across five grade levels at John R King Academic and Performing Arts Academy. All Metroparks educational programs are designed to align with the National Guidelines for Science Standards and Michigan Science Standards, and the goal is to deepen students’ understanding of science and the world around them.

The Metroparks also supports students through the following organized programs:

Free field trips

- Free experiential field trips to public schools in select townships of Clair County, Lapeer County, Macomb County and Oakland County funded through a grant from the Four County Community Foundation (4CCF). <https://www.4ccf.org/>
- Trips include free transportation to Stony Creek or Wolcott Mill Metroparks for hands-on activities related to agriculture, history, nature and science.
- The program will run through the 2022-2023 school year.

Get Out and Learn

- Scholarship program funded by the Metroparks that offers free field trips or in-school programs for underserved schools in Southeast Michigan schools to any of the Metropark Interpretive Centers, including transportation and programming fees.
- To qualify, schools must have at least 50% of students eligible for the federal free and reduced lunch program.

Teachers can learn more or apply by visiting <https://www.metroparks.com/education/#EDUCATIONALGRANTS>.

###

About Huron-Clinton Metroparks

One of America’s premier metropolitan park systems, the Huron-Clinton Metroparks have served the people of Southeast Michigan since 1940. Managed by the Huron-Clinton Metropolitan Authority, the Metroparks are made up of 13 properties in Livingston, Macomb, Oakland, Washtenaw, and Wayne counties. The Metroparks are open 365 days a year and encompass 25,000 acres of nature and recreational facilities. Each year more than 1.5 million people engage with the Metroparks to enjoy amenities such as picnicking, fishing, swimming, boating, hiking, nature study, biking, golf, disc golf, cross country skiing, sledding, snowshoeing and a diversity of outdoor programs and special events. The Metroparks also provide educational resources on science, nature, history and the environment. Learn more at [Metroparks.com](https://www.metroparks.com).



CONTACT:
Huron-Clinton Metroparks
Danielle Mauter
Danielle.mauter@metroparks.com;
810-494-6009

FOR IMMEDIATE RELEASE
Teachers From Across the Nation Travel to
Michigan's Metroparks to Learn Interactive Ways to
Teach Students About Environmental Health

DETROIT, Mich. - Over 20 teachers from across the nation traveled to Lake St. Clair Metropark to learn hands-on ways to teach their students about environmental health through milkweed plants.

This summer, the nature center at Lake St. Clair Metropark hosted over 20 educators from across the country, where the Milkweed Adaptation Research and Education Network (MAREN), based out of St. Olaf College in Minnesota, presented a series of protocols and a Great-Lakes-wide database to help teachers and students explore milkweed in depth. Unlike flighted monarchs, the firmly-rooted milkweed plants provide ongoing opportunities for students and teachers to explore a variety of questions about phenology, invertebrates, and even climate. Researchers explained the climate change indicators that can be identified in milkweed, and how students of all ages can help identify and record them into a national study. Milkweed serves as a resource for climate change studies because of its sensitivity to pollution. The plant can reflect signs of damage resulting from ozone (like dark polka dots visible on the leaves), road salt, temperature, and other factors.

In late June, a network of informal educators, classroom teachers, and university faculty gathered in a combination of virtual and in-person workshops to explore these protocols and consider ways to make these explorations work for their students in the classroom. Lake St. Clair Metropark Nature Center in Macomb County served as a "Milkweed Hub" for hands-on practice identifying and exploring milkweed plants, which are found in abundance throughout the park and in its Monarch Waystation areas.

Monarch Waystations are patches of habitat where the endangered Monarch butterflies feed on milkweed, a native plant that serves as the only host for this specific species of butterflies to produce successive generations and sustain their migration. Scientists and educators are now studying these milkweed plants because of their unique climate change indicators.

Participants took measurements of stems and leaves, made observations of the umbel-flowers, and examined signs of invertebrate feeding on the plants. They discovered multiple different phenological stages. Some plants seemed to be home to more creatures than others, and some plants seemed to show evidence of environmental damage.

Along with the outdoor student-led questioning and hands-on learning in the milkweed patch, the project has a larger community science component. All the data collected by students from their local classroom or nature center plants is uploaded into a shared database to promote deeper questioning about how milkweed plant phenology changes across the Great Lakes through time, how pollinators compare across the region, how the invertebrate community changes with milkweed growth stage, and how milkweed plants from different climate zones compare.

“Michigan has so many natural resources that aid in ongoing essential research on climate change and other environmental issues,” said Jennifer Jaworski, Metroparks Chief of Interpretive Services. “And our interpreters are eager to share these resources with our neighbors and with environmental experts from all over the nation.”

The park also hosts public educational programs for anyone interested in learning about and stewarding the natural world around us.

The Metroparks is also working with a research team to develop a climate action plan that prioritizes and addresses the current and future impacts of climate change in the Metroparks and the region. Climate change will greatly impact Metroparks operations and the way visitors seek to use the parks. The Metroparks take the stewardship of their more than 24,000 acres of parkland very seriously, and they want to engage community members in this work.

The first part of this process is inviting the public to participate in conversations about their climate related priorities and concerns to help further define the Metroparks role toward a sustainable green future. Focus groups are being held in-person and virtually now through December. Community members can register to share their opinions at <https://www.eventbrite.com/cc/metropark-community-cap-focus-groups-1226749>.

“Climate action is essential to all of our communities, and we recognize that the Metroparks are both impacted by it and play a vital role in future solutions. From stormwater management, to canopy cover, to creative solutions and more, the Metroparks are actively engaging in conversations that can lead to a more sustainable future” said Amy McMillan, director of the Metroparks. “Furthermore, we’re proud to equip educators across the nation with the knowledge and resources they need to educate and elevate our students as future environmental pioneers.”

Anyone interested in exploring Michigan’s unique monarch habitat can plan their visit at www.metroparks.com/lake-st-clair-metropark/lake-st-clair-metropark-nature-center/.

###

About Huron-Clinton Metroparks

One of America’s premier metropolitan park systems, the Huron-Clinton Metroparks have served the people of Southeast Michigan since 1940. Managed by the Huron-Clinton Metropolitan Authority, the Metroparks are made up of 13 properties in Livingston, Macomb, Oakland, Washtenaw, and Wayne counties. The Metroparks are open 365 days a year and encompass 25,000 acres of nature and recreational facilities. Each year more than 1.5 million people engage with the Metroparks to enjoy amenities such as picnicking, fishing, swimming, boating, hiking, nature study, biking, golf, disc golf, cross country skiing, sledding, snowshoeing and a diversity of outdoor programs and special events. The Metroparks also provide educational resources on science, nature, history and the environment. Learn more at Metroparks.com.

BLOG POST

New Hands-On Science Clubs in Metro Detroit Help Bridge the Gap in Environmental Education

Students will be engaging with science and writing social media posts and more online content for the Metroparks throughout November

The Metroparks have partnered with schools in underserved communities throughout Metro Detroit to close the equity gap in environmental education through three free after-school science clubs. The Metroparks Board of Commissioners made educational programs and career development with students a high priority this year, and set aside budgeted funds to make it happen. Then staff connected with teachers to find the best way to fill those gaps and needs. The partnerships are tailored to meet the needs of students in each district and focus on inspiring students to become stewards of our natural environment and explore careers in the outdoors through education and hands-on practice.

The Metroparks have partnered with Weston Charter Academy in Detroit to host an after-school science club, Let's Go Outside Club, for students grades 4-8 at the school. The program, planned to take place entirely outdoors, helps students gain a stronger understanding and connection to their natural environment, starting right outside their school. Some of the topics they'll focus on include: Fall Leaves, Indigenous People Who Lived Here Before Us, Seasonal Nature Crafts, Animals in Winter, Maple Sugaring and more. So far, a total of 18 students have participated, and the club will meet the entirety of the school year.

The Metroparks also partnered with Riverside Academy West, a charter school with Global Excellence Academics in Dearborn, to offer an environmental science education program for students grades 6-8, who meet every Wednesday for an hour-and-a-half after school. Students participate in a variety of exercises that teach them how to engage with nature, and every month focuses on a new theme. This month, students will be investigating leaves and plant pigments, owls and the solar system. The program will also include field trips to the Metroparks for hands-on interpretive learning experiences.

The third partnership, also with Riverside Academy West, is an after-school program every Thursday for high-school students that ties environmental science with multimedia communication. The program is called Nature Network Club and teaches students about environmental interpretation and how to talk about nature in a digital world. Students also get a glimpse of potential career paths through exploring different positions in STEM (science, technology, engineering and math) and marketing. As part of the program, students will take field trips to different Metroparks and use technology (cameras, video-editing software, drones) to develop digital content for the Metroparks' social media platforms and website blogs. The exercise mimics a consultant-client relationship for students to get real-life

experience working in environmental multimedia, starting this week with a meeting and presentation with Metroparks marketing staff.

If you're reading this, you're invited to follow the Metroparks on social media to see content the Nature Network Club creates starting in November. Metroparks will periodically post the club's created content with a credit line to them.



HURON-CLINTON METROPARKS MONTHLY STATISTICS

October, 2022

PARK	MONTHLY VEHICLE ENTRIES				MONTHLY TOLL REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	31,052	31,201	28,951	7%	\$ 36,148	\$ 26,671	\$ 27,166	33%
Wolcott Mill	7,343	3,452	4,111	79%	\$ 3,759	\$ 2,330	\$ 2,578	46%
Stony Creek	48,882	41,270	42,841	14%	\$ 74,831	\$ 48,717	\$ 56,860	32%
Indian Springs	8,689	8,164	7,854	11%	\$ 12,108	\$ 10,676	\$ 10,664	14%
Kensington	76,537	70,106	70,638	8%	\$ 117,021	\$ 86,953	\$ 99,466	18%
Huron Meadows	11,256	14,333	12,285	-8%	\$ 8,348	\$ 25,372	\$ 14,489	-42%
Hudson Mills	25,132	24,713	24,335	3%	\$ 31,917	\$ 34,003	\$ 26,173	22%
Lower Huron/Willow/Oakwoods	52,330	47,488	61,869	-15%	\$ 41,214	\$ 26,727	\$ 33,220	24%
Lake Erie	17,897	18,163	16,827	6%	\$ 22,790	\$ 27,345	\$ 23,616	-3%
Monthly TOTALS	279,118	258,890	269,711	3%	\$ 348,136	\$ 288,794	\$ 294,231	18%

PARK	Y-T-D VEHICLE ENTRIES				Y-T-D TOLL REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	524,373	496,910	459,143	14%	\$ 1,950,956	\$ 1,926,495	\$ 1,764,333	11%
Wolcott Mill	45,070	38,000	31,531	43%	\$ 38,325	\$ 30,611	\$ 43,793	-12%
Stony Creek	551,034	643,274	621,753	-11%	\$ 2,366,115	\$ 2,583,772	\$ 2,577,933	-8%
Indian Springs	90,287	97,451	93,254	-3%	\$ 333,853	\$ 347,385	\$ 320,950	4%
Kensington	726,476	814,947	783,640	-7%	\$ 2,743,735	\$ 2,917,534	\$ 2,812,683	-2%
Huron Meadows	101,036	115,950	102,321	-1%	\$ 76,706	\$ 84,483	\$ 68,610	12%
Hudson Mills	213,252	248,944	231,550	-8%	\$ 550,791	\$ 616,329	\$ 554,617	-1%
Lower Huron/Willow/Oakwoods	501,458	545,140	530,422	-5%	\$ 1,019,541	\$ 891,050	\$ 893,900	14%
Lake Erie	192,275	209,316	199,089	-3%	\$ 516,214	\$ 566,208	\$ 579,739	-11%
Monthly TOTALS	2,945,261	3,209,932	3,052,703	-4%	\$ 9,596,236	\$ 9,963,867	\$ 9,616,558	0%

PARK	MONTHLY PARK REVENUE				Y-T-D PARK REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	\$ 72,171	\$ 86,759	\$ 68,345	6%	\$ 2,835,307	\$ 2,766,176	\$ 2,451,874	16%
Wolcott Mill	\$ 23,545	\$ 18,414	\$ 17,573	34%	\$ 119,758	\$ 136,184	\$ 161,510	-26%
Stony Creek	\$ 196,500	\$ 145,917	\$ 139,725	41%	\$ 4,631,539	\$ 5,002,598	\$ 4,547,965	2%
Indian Springs	\$ 105,661	\$ 86,825	\$ 77,666	36%	\$ 1,613,401	\$ 1,540,711	\$ 1,280,938	26%
Kensington	\$ 283,613	\$ 223,391	\$ 229,710	23%	\$ 5,310,479	\$ 5,597,626	\$ 5,023,772	6%
Huron Meadows	\$ 100,887	\$ 118,793	\$ 92,776	9%	\$ 1,327,004	\$ 1,355,177	\$ 1,087,738	22%
Hudson Mills	\$ 104,421	\$ 110,160	\$ 84,996	23%	\$ 1,502,833	\$ 1,541,297	\$ 1,333,996	13%
Lower Huron/Willow/Oakwoods	\$ 109,370	\$ 87,467	\$ 99,693	10%	\$ 2,707,955	\$ 2,310,808	\$ 2,310,845	17%
Lake Erie	\$ 112,731	\$ 118,781	\$ 101,350	11%	\$ 1,715,212	\$ 1,823,978	\$ 1,713,336	0%
Y-T-D TOTALS	\$ 1,108,899	\$ 996,507	\$ 911,834	22%	\$ 21,763,488	\$ 22,074,555	\$ 19,911,975	9%

District	Y-T-D Vehicle Entries by Management Unit				Y-T-D Total Revenue by Management Unit			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Eastern	1,120,477	1,178,184	1,112,427	1%	7,586,604	7,904,958	7,161,350	6%
Western	1,131,051	1,277,292	1,210,765	-7%	9,753,717	10,034,811	8,726,444	12%
Southern	693,733	754,456	729,511	-5%	4,423,167	4,134,786	4,024,182	10%

HURON-CLINTON METROPARKS MONTHLY STATISTICS

October, 2022

GOLF THIS MONTH	MONTHLY ROUNDS				MONTHLY REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Stony Creek	3,300	2,653	2,348	41%	\$ 92,303	\$ 79,240	\$ 58,931	57%
Indian Springs	3,252	2,934	2,568	27%	\$ 83,393	\$ 71,766	\$ 60,643	38%
Kensington	3,269	3,443	3,122	5%	\$ 94,581	\$ 92,660	\$ 82,141	15%
Huron Meadows	3,350	3,436	3,091	8%	\$ 92,539	\$ 93,421	\$ 78,088	19%
Hudson Mills	2,326	2,427	2,095	11%	\$ 53,950	\$ 56,887	\$ 45,754	18%
Willow	2,366	1,878	2,253	5%	\$ 46,710	\$ 50,902	\$ 56,756	-18%
Lake Erie	2,474	2,442	2,285	8%	\$ 70,683	\$ 66,789	\$ 59,766	18%
Total Regulation	20,337	19,213	17,762	14%	\$ 534,159	\$ 511,665	\$ 442,080	21%
LSC Par 3	202	170	217	-7%	\$ 161	\$ 175	\$ 1,407	-89%
LSC Foot Golf	29	6	32	-10%	\$ 29	\$ 6	\$ 225	-87%
Total Golf	20,568	19,389	18,012	14%	\$ 534,349	\$ 511,846	\$ 443,712	20%

GOLF Y-T-D	GOLF ROUNDS Y-T-D				GOLF REVENUE Y-T-D			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Stony Creek	38,210	37,430	33,695	13%	\$ 1,284,055	\$ 1,289,814	\$ 1,084,710	18%
Indian Springs	36,690	34,942	29,328	25%	\$ 1,165,402	\$ 1,068,180	\$ 876,662	33%
Kensington	39,467	40,653	36,490	8%	\$ 1,304,578	\$ 1,307,190	\$ 1,139,774	14%
Huron Meadows	36,421	35,563	31,398	16%	\$ 1,180,128	\$ 1,207,702	\$ 980,570	20%
Hudson Mills	29,762	29,444	26,145	14%	\$ 790,553	\$ 780,458	\$ 646,204	22%
Willow	30,050	28,564	26,898	12%	\$ 818,321	\$ 856,860	\$ 781,841	5%
Lake Erie	33,118	33,957	29,399	13%	\$ 962,527	\$ 1,008,100	\$ 825,860	17%
Total Regulation	243,718	240,553	213,352	14%	\$ 7,505,564	\$ 7,518,305	\$ 6,335,622	18%
LSC Par 3	5,611	6,173	6,190	-9%	\$ 48,085	\$ 50,727	\$ 49,920	-4%
LSC Foot Golf	552	618	732	-25%	\$ 4,484	\$ 4,746	\$ 5,325	-16%
Total Golf	249,881	247,344	220,274	13%	\$ 7,558,133	\$ 7,573,778	\$ 6,390,867	18%

AQUATICS THIS MONTH	PATRONS THIS MONTH				MONTHLY REVENUE			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St. Clair	0	0	0	-	\$ -	\$ -	\$ -	-
Stony Creek Rip Slide	0	0	0	-	\$ -	\$ -	\$ -	-
KMP Splash	0	0	0	-	\$ -	\$ -	\$ -	-
Lower Huron	0	0	0	-	\$ -	\$ -	\$ 70	-
Willow	0	0	0	-	\$ -	\$ -	\$ -	-
Lake Erie	0	0	0	-	\$ -	\$ -	\$ -	-
TOTALS	0	0	0	-	\$ -	\$ -	\$ 70	-

AQUATICS Y-T-D	PATRONS Y-T-D				REVENUE Y-T-D			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St. Clair	56,601	49,526	35,488	59%	\$ 279,492	\$ 234,936	\$ 168,944	65%
Stony Creek Rip Slide	22,678	28,687	17,153	32%	\$ 131,606	\$ 159,624	\$ 92,957	42%
KMP Splash	39,568	54,233	43,602	-9%	\$ 263,987	\$ 338,000	\$ 255,880	3%
Lower Huron	51,437	34,412	38,993	32%	\$ 512,378	\$ 333,740	\$ 426,884	20%
Willow	22,148	20,624	16,610	33%	\$ 103,755	\$ 89,126	\$ 74,451	39%
Lake Erie	0	0	10,557	-	\$ -	\$ -	\$ 86,589	-
TOTALS	192,432	187,482	162,403	18%	\$ 1,291,218	\$ 1,155,426	\$ 1,105,704	17%

HURON-CLINTON METROPARKS MONTHLY STATISTICS

October, 2022

PARK	Seasonal Activities this Month				Monthly Revenue			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St. Clair								
Welsh Center	2	5	3	-25%	\$ 1,000	\$ 6,900	\$ 3,567	-72%
Shelters	4	5	5	-25%	\$ 1,585	\$ 1,035	\$ 1,180	34%
Boat Launches	247	152	210	18%	\$ -	\$ -	\$ -	-
Marina	184	177	203	-9%	\$ 770	\$ 869	\$ 909	-15%
Mini-Golf	0	0	0	-	\$ -	\$ -	\$ -	-
Wolcott								
Activity Center	3	4	5	-36%	\$ 500	\$ 1,500	\$ 1,842	-73%
Stony Creek								
Disc Golf Daily	688	788	829	-17%	\$ 2,064	\$ 2,598	\$ 2,577	-20%
Disc Golf Annual	0	0	0	-	\$ -	\$ -	\$ -	-
Total Disc Golf	688	788	829	-17%	\$ 2,064	\$ 2,598	\$ 2,577	-20%
Shelters	8	13	10	-20%	\$ 1,800	\$ 2,975	\$ 2,279	-21%
Boat Rental	0	0	0	-	\$ -	\$ -	\$ -	-
Boat Launches	15	0	7	125%	\$ -	\$ -	\$ -	-
Indian Springs								
Shelters	1	2	1	0%	\$ 200	\$ 400	\$ 200	0%
Event Room	2	1	2	-14%	\$ 8,400	\$ 2,600	\$ 4,333	94%
Kensington								
Disc Golf Daily	2,762	2,456	1,883	47%	\$ 10,951	\$ 9,651	\$ 6,411	71%
Disc Golf Annual	0	0	0	-	\$ -	\$ -	\$ -	-
Total Disc Golf	2,762	2,456	1,883	47%	\$ 10,951	\$ 9,651	\$ 6,411	71%
Shelters	17	17	16	6%	\$ 3,263	\$ 4,100	\$ 3,579	-9%
Boat Rental	0	0	0	-	\$ -	\$ -	\$ -	-
Huron Meadows								
Shelters	0	1	2	-	\$ -	\$ 200	\$ 267	-
Hudson Mills								
Disc Golf Daily	395	383	330	20%	\$ 1,185	\$ 1,149	\$ 991	20%
Disc Golf Annual	0	0	0	-	\$ -	\$ -	\$ -	-
Total Disc Golf	395	383	330	20%	\$ 1,185	\$ 1,149	\$ 991	20%
Shelters	1	2	3	-63%	\$ 200	\$ 400	\$ 483	-59%
Canoe Rental	0	0	10	-	\$ 15,435	\$ 16,657	\$ 9,036	71%
Lower Huron / Willow / Oakwoods								
Disc Golf Daily	170	137	151	13%	\$ 510	\$ 411	\$ 453	13%
Disc Golf Annual	0	0	0	-	\$ -	\$ -	\$ -	-
Total Disc Golf	170	137	151	13%	\$ 510	\$ 411	\$ 453	13%
Shelters	15	19	17	-13%	\$ 3,300	\$ 2,375	\$ 3,242	2%
Lake Erie								
Shelters	2	0	1	50%	\$ 300	\$ -	\$ 333	-10%
Boat Launches	1,004	848	807	24%	\$ -	\$ -	\$ -	-
Marina	0	0	0	-	\$ 18,509	\$ 23,917	\$ 16,403	13%

HURON-CLINTON METROPARKS MONTHLY STATISTICS

October, 2022

PARK	Seasonal Activities Y-T-D				Seasonal Revenue Y-T-D			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St. Clair								
Welsh Center	35	40	37	-5%	\$ 76,300	\$ 74,200	\$ 48,950	56%
Shelters	407	432	350	16%	\$ 106,559	\$ 92,930	\$ 81,511	31%
Boat Launches	3,184	6,991	6,959	-54%	\$ -	\$ -	\$ -	-
Marina	2,938	1,661	1,862	58%	\$ 22,507	\$ 21,459	\$ 18,846	19%
Mini-Golf	10,052	9,467	8,768	15%	\$ 46,789	\$ 43,495	\$ 36,857	27%
Wolcott								
Activity Center	11	17	30	-64%	\$ 4,880	\$ 11,925	\$ 14,810	-67%
Stony Creek								
Disc Golf Daily	12,107	15,621	13,949	-13%	\$ 40,208	\$ 52,512	\$ 46,679	-14%
Disc Annual	124	122	90	38%	\$ 7,286	\$ 7,120	\$ 5,180	41%
Total Disc Golf	12,231	15,743	14,039	-13%	\$ 47,494	\$ 59,632	\$ 51,859	-8%
Shelters	468	556	446	5%	\$ 110,421	\$ 124,844	\$ 100,182	10%
Boat Rental	102,651	19,786	22,738	351%	\$ 169,879	\$ 230,148	\$ 237,592	-28%
Boat Launches	397	376	767	-48%	\$ -	\$ -	\$ -	-
Indian Springs								
Shelters	102	87	70	46%	\$ 14,150	\$ 11,850	\$ 9,334	52%
Event Room	31	38	27	15%	\$ 88,050	\$ 96,600	\$ 58,300	51%
Kensington								
Disc Golf Daily	21,555	28,387	23,622	-9%	\$ 72,721	\$ 98,603	\$ 79,026	-8%
Disc Annual	235	342	232	1%	\$ 13,860	\$ 19,960	\$ 13,573	2%
Total Disc Golf	21,790	28,729	23,854	-9%	\$ 86,581	\$ 118,563	\$ 92,600	-7%
Shelters	490	614	541	-9%	\$ 107,208	\$ 130,233	\$ 115,703	-7%
Boat Rental	11,107	15,332	18,728	-41%	\$ 193,411	\$ 266,579	\$ 258,296	-25%
Huron Meadows								
Shelters	50	59	41	21%	\$ 9,600	\$ 9,900	\$ 7,117	35%
Hudson Mills								
Disc Golf Daily	6,965	8,928	7,374	-6%	\$ 20,895	\$ 26,784	\$ 22,122	-6%
Disc Annual	118	92	130	-9%	\$ 6,880	\$ 5,400	\$ 7,627	-10%
Total Disc Golf	7,083	9,020	7,504	-6%	\$ 27,775	\$ 32,184	\$ 29,749	-7%
Shelters	182	157	102	79%	\$ 32,300	\$ 28,200	\$ 18,217	77%
Canoe Rental	11,904	12,609	10,750	11%	\$ 70,707	\$ 67,580	\$ 59,643	19%
Lower Huron / Willow / Oakwoods								
Disc Golf Daily	1,193	1,838	1,566	-24%	\$ 3,879	\$ 5,520	\$ 4,699	-17%
Disc Annual	10	9	7	36%	\$ 540	\$ 500	\$ 420	29%
Total Disc Golf	1,203	1,847	1,573	-24%	\$ 4,419	\$ 6,020	\$ 5,119	-14%
Shelters	388	482	333	17%	\$ 88,075	\$ 85,900	\$ 65,225	35%
Lake Erie								
Shelters	54	84	71	-24%	\$ 10,900	\$ 17,900	\$ 15,283	-29%
Boat Launches	14,131	13,136	15,020	-6%	\$ -	\$ -	\$ -	-
Marina	0	0	0	-	\$ 215,148	\$ 237,098	\$ 202,099	6%

HURON-CLINTON METROPARKS MONTHLY STATISTICS

October, 2022

INTERPRETIVE FACILITIES								
PARK	Monthly Patrons Served				YTD Patrons Served			
	(total program participants and non-program visitors)				(total program participants and non-program visitors)			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	9,342	7,873	9,408	-1%	128,076	129,641	131,069	-2%
Wolcott Mill	1,647	1,296	1,653	0%	14,805	42,378	24,294	-39%
Wolcott Farm	8,102	6,794	6,877	18%	46,837	47,873	40,491	16%
Stony Creek	20,848	20,465	21,148	-1%	150,006	194,155	171,317	-12%
Eastern Mobile Center	833	233	355	134%	15,252	4,106	6,810	124%
Indian Springs	6,171	10,210	7,140	-14%	49,921	48,568	49,245	1%
Kens NC	36,282	27,752	35,099	3%	279,493	313,571	315,374	-11%
Kens Farm	26,384	22,641	23,956	10%	226,459	217,593	201,952	12%
Western Mobile Center	969	96	660	47%	8,129	3,916	4,985	63%
Hudson Mills	3,754	3,571	3,669	2%	35,712	31,877	32,694	9%
Oakwoods	16,173	11,864	13,382	21%	133,939	122,842	133,644	0%
Lake Erie	14,703	14,743	14,770	0%	145,471	159,802	156,826	-7%
Southern Mobile Center	7,144	7,343	4,862	47%	21,181	13,169	12,144	74%
Totals	152,352	134,881	142,980	7%	1,255,281	1,329,491	1,280,843	-2%

PARK	Monthly Revenue				YTD Revenue			
	Current	Previous	Prev 3 Yr Avg	Change from Average	Current	Previous	Prev 3 Yr Avg	Change from Average
Lake St Clair	\$ 716	\$ 1,378	\$ 922	-22%	\$ 19,457	\$ 7,476	\$ 12,895	51%
Wolcott Mill	\$ -	\$ -	\$ 689	-	\$ -	\$ 4,467	\$ 3,921	-
Wolcott Farm	\$ 1,457	\$ 6,884	\$ 5,557	-74%	\$ 27,539	\$ 14,958	\$ 29,361	-6%
Wagon Rides	\$ -	\$ -	\$ -	-	\$ -	\$ -	\$ -	-
Livestock/Produce	\$ 4,472	\$ 3,091	\$ 7,053	-37%	\$ 37,859	\$ 39,490	\$ 42,503	-11%
FARM TOTAL	\$ 5,929	\$ 9,975	\$ 12,610	-53%	\$ 65,398	\$ 54,448	\$ 71,864	-9%
Stony Creek	\$ 4,177	\$ 3,621	\$ 2,525	65%	\$ 22,668	\$ 8,325	\$ 10,856	109%
Eastern Mobile Center	\$ 296	\$ 375	\$ 709	-58%	\$ 3,084	\$ 2,025	\$ 5,518	-44%
Indian Springs	\$ 1,560	\$ 1,383	\$ 1,825	-15%	\$ 11,409	\$ 5,724	\$ 11,676	-2%
Kens NC	\$ 1,205	\$ 1,787	\$ 1,861	-35%	\$ 19,183	\$ 11,750	\$ 16,078	19%
Kens Farm	\$ 13,538	\$ 9,504	\$ 9,946	36%	\$ 68,446	\$ 40,627	\$ 43,100	59%
Wagon Rides	\$ 7,810	\$ 7,804	\$ 5,934	32%	\$ 19,498	\$ 13,303	\$ 14,481	35%
Livestock/Produce	\$ 2,922	\$ -	\$ 128	2187%	\$ 8,948	\$ 7,444	\$ 5,745	56%
FARM TOTAL	\$ 24,270	\$ 17,308	\$ 16,008	52%	\$ 96,892	\$ 61,374	\$ 63,326	53%
Western Mobile Center	\$ 1,663	\$ -	\$ 613	171%	\$ 10,909	\$ 3,071	\$ 9,289	17%
Hudson Mills	\$ 165	\$ 608	\$ 783	-79%	\$ 14,665	\$ 8,168	\$ 7,717	90%
Oakwoods	\$ 775	\$ 2,568	\$ 1,740	-55%	\$ 3,415	\$ 6,836	\$ 9,541	-64%
Lake Erie	\$ 449	\$ 730	\$ 646	-31%	\$ 10,425	\$ 4,848	\$ 6,325	65%
Southern Mobile Center	\$ 745	\$ 250	\$ 447	67%	\$ 10,475	\$ 250	\$ 6,241	68%
Totals	\$ 41,949	\$ 39,984	\$ 41,379	1%	\$ 287,980	\$ 178,761	\$ 235,246	22%

BREAKDOWN OF ATTENDANCE	ON-SITE Programs and Attendance				OFF-SITE Programs and Attendance			
	CURRENT YEAR		PREVIOUS YEAR		CURRENT YEAR		PREVIOUS YEAR	
	Programs	Attendance	Programs	Attendance	Programs	Attendance	Programs	Attendance
Lake St Clair	22	587	17	368	-	-	-	-
Wolcott Mill	-	-	-	-	-	-	-	-
Wolcott Farm	30	2,807	112	2,236	-	-	1	31
Stony Creek	85	1,348	39	465	-	-	-	-
Eastern Mobile Center					8	651	4	233
Indian Springs	10	762	10	571	-	-	-	-
Kens NC	22	717	15	599	-	-	-	-
Kens Farm	216	4,988	241	4,860	-	-	-	-
Western Mobile Center					22	969	4	96
Hudson Mills	5	254	4	71	-	-	-	-
Oakwoods	50	801	56	544	1	52	8	1,240
Lake Erie	10	130	28	258	3	113	9	1,180
Southern Mobile Center					26	7,144	36	7,343
Totals	450	12,394	522	9,972	60	8,929	62	10,123

BREAKDOWN OF ATTENDANCE	OTHER VISITORS (Non-programs)	
	Current	Previous
Lake St Clair	8,755	7,505
Wolcott Mill	1,647	1,296
Wolcott Farm	5,295	4,527
Stony Creek	19,500	20,000
Indian Springs	5,409	9,639
Kens NC	35,565	27,153
Kens Farm	21,396	17,781
Hudson Mills	3,500	3,500
Oakwoods	15,320	10,080
Lake Erie	14,460	13,305
Totals	130,847	114,786

"ON-SITE" - Statistics includes both programs offered to the public and programs offered to school and scout groups.

"OFF-SITE" - Statistics includes outreach programs at schools, special events such as local fairs, or outdoor related trade shows.

"OTHER VISITORS" - Represents patrons to interpretive centers who visit to view exhibits, walk trails, and generally just enjoy the outdoors.