



GRAND RIVER GREENWAY

Grand River Greenway Projects Overview

	Project Lead	Phase	Total Cost	Funds Committed	Funding Gap	Page
Can Be Completed by end of 2023						
Fulton St./M-21 Crossing Underneath Fulton St. Bridge Near Grand River to DNR Board Launch Site	Ada Township	30% design in progress	\$ 2,622,000	\$ 1,872,000	\$ 750,000	1
New Trail Connection - Ann to Leonard Street	City of Grand Rapids	90% design almost complete	\$ 6,806,316	\$ 4,364,550	\$ 2,441,766	16
Lyon Square	Downtown Grand Rapids Inc.	90% design almost complete	\$ 7,900,000	\$ 7,500,000	\$ 400,000	43
Existing Trail Repair - Louis/JW to Blue Bridge	City of Grand Rapids	90% design almost complete	\$ 850,000	\$ 850,000	\$ -	50
Johnson Park/Millennium Park Mountain Biking Trails	Kent County	30% design completed	\$ 2,049,737	\$ -	\$ 2,049,737	66
2023 Subtotals			\$ 20,228,053	\$ 14,586,550	\$ 5,641,503	
Can Be Completed by end of 2024						
Fulton St. (West Twp Boundary to Carl Dr. Carl Drive to Grand River Ave)*	Ada Township	30% design in progress	\$ 2,528,200	\$ 2,178,200	\$ 350,000	1
Grand Rogue Park & Trail - Phase I 	Plainfield Township	60% design in progress	\$ 604,600	\$ 604,600	\$ -	5
Grand Rapids to Lowell Trail - North Trailheads	Kent County	30% design in progress	\$ 5,400,000	\$ 4,500,000	\$ 900,000	11
Canal Park 	City of Grand Rapids	60% design in progress	\$ 6,500,000	\$ -	\$ 6,500,000	30
Ah Nab Awen Park - Upper Priority Area ("Mounds" improvement)	City of Grand Rapids	60% design in progress	\$ 2,697,045	\$ -	\$ 2,697,045	39
Grand Rapids Public Museum	City of Grand Rapids/ Grand Rapids Public Museum	90% design completed	\$ 12,238,748	\$ 5,489,995	\$ 6,748,753	47
Wealthy Street River Access 	City of Grand Rapids	30% design completed	\$ 3,000,000	\$ -	\$ 3,000,000	54
2024 Subtotals			\$ 32,968,593	\$ 12,772,795	\$ 20,195,798	
Can Be Completed by end of 2026						
Knapp St. Pedestrian Bridge (Grand River Ave. to Water Crest Dr.)*	Ada Township	30% design in progress	\$ 5,899,500	\$ 4,349,500	\$ 1,550,000	1
Grand Rogue Park & Trail - Phase II - IV 	Plainfield Township	30% design completed	\$ 5,195,400	\$ 313,200	\$ 4,882,200	5
Grand Rapids to Lowell Trail - North Trail Sections	Kent County	30% design in progress	\$ 35,932,284	\$ 5,500,000	\$ 30,432,284	11
Coldbrook Park (Decommissioned City Water Pumping Station) 	City of Grand Rapids	Conceptual Design Completed	\$ 23,000,000	\$ -	\$ 23,000,000	26
Fulton/Market Site 	City of Grand Rapids	Design not yet completed	\$ 5,000,000	\$ -	\$ 5,000,000	52
201 Market Site 	City of Grand Rapids	Design not yet completed	\$ 25,000,000	\$ -	\$ 25,000,000	52
New Trail Connection - Wealthy Street to Oxford Trail	City of Grand Rapids	30% design completed	\$ 1,000,000	\$ -	\$ 1,000,000	57
Butterworth Boat Ramp 	City of Grand Rapids	30% design completed	\$ 500,000	\$ -	\$ 500,000	63
2026 Subtotals			\$ 101,527,184	\$ 10,162,700	\$ 91,364,484	
2023-2026 Grand Totals			\$ 154,723,830	\$ 37,522,045	\$ 117,201,785	

Grand River Greenway Projects Overview - Cont.

	Project Lead	Phase	Total Cost	Funds Committed	Funding Gap	Page
Completion after 2026						
Chief Hazy Cloud Park 	Kent County	Master Plan Completed (Conceptual)	TBD	\$ -	TBD	3
Westside Park (Ann St north to 96)	City of Grand Rapids	Design not yet completed	TBD	\$ -	TBD	7
Indian Mill Creek	City of Grand Rapids	Design not yet completed	TBD	\$ -	TBD	9
Grand Rapids to Lowell Trail - South Section – Rails with Trail	Kent County	30% design in progress	\$ 28,652,400	\$ -	\$ 28,652,400	11
Kent County Road Commission Site	City of Grand Rapids	Design not yet completed	TBD	\$ -	TBD	14
Adventure Park (Decommissioned City Water Storage Yard) 	City of Grand Rapids	Conceptual Design Completed - 30% design not yet started	\$ 22,410,600	\$ -	\$ 22,410,600	20
Hill and River Network	City of Grand Rapids	30% design completed	\$ 46,700,000	\$ -	\$ 46,700,000	22
Coldbrook Creek	City of Grand Rapids	Design not yet completed	TBD	\$ -	TBD	28
Sixth Street/Monroe North Park 	City of Grand Rapids	30% design completed	\$ 29,000,000	\$ -	\$ 29,000,000	32
Fish Ladder Park 	City of Grand Rapids	30% design completed	\$ 4,124,200	\$ -	\$ 4,124,200	35
225 Michigan Street NW Site (USPS)	City of Grand Rapids	Design not yet completed	TBD	\$ -	TBD	37
Ah Nab Awen Park - Lower Park Space	City of Grand Rapids	60% design completed	\$ 3,765,000	\$ -	\$ 3,765,000	39
Silver Creek	City of Grand Rapids	Design not yet completed	TBD	\$ -	TBD	59
Plaster Creek	City of Grand Rapids	Design not yet completed	TBD	\$ -	TBD	61
Grand River Burial Mounds Stewardship	City of Grand Rapids/Grand Rapids Public Museum	Design not yet completed	TBD	\$ -	TBD	68
Total			\$ 134,652,200	\$ -	\$ 134,652,200	

Ada Trails

Project Overview

Ada Township has completed a comprehensive plan for its trail network, much of which complete key connections along the Grand River Greenway. Ada Township's priority trail sections are as follows:

Fulton St./M-21 Crossing: The proposed trail connection runs through Legacy Park on the south end of Downtown Ada (Yellow circle on next page). This trail will provide a safe connection between downtown along the Thornapple River to the river mouth at the Grand River. The trail will run under Fulton Street/M-21 to the DNR boat launch, further increasing pedestrian safety by providing a safe passage under the busy roadway.

Fulton Street Trail: Ada Township will complete a 1.1 mile section of trail extending from the west township boundary on Fulton Street, to Carl Drive where it will follow the roadway to Grand River Avenue (Red circle on next page). This section of trail will connect the existing trail network in Grand Rapids Township to the Ada Township trail network extending into downtown Ada and the Grand River.

Knapp St. Pedestrian Bridge: The Knapp Street Bridge over the Grand River is a dangerous crossing for pedestrians and bicyclists (Blue circle on next page). Ada Township will complete a pedestrian crossing at the location of the Knapp Street Bridge to provide a safe connection between the Grand Rapids Township trail network and Ada Township and Cannon Township trails.

Project Phase & Timeline

Engineering is being finalized now for the Fulton St./M-21 Crossing, with construction to begin in 2023. Design for the Fulton Street Trail is scheduled to be finalized and construction completed in 2024. Project design for the Knapp Street Bridge is completed to 30% and is slated for completion in 2025.

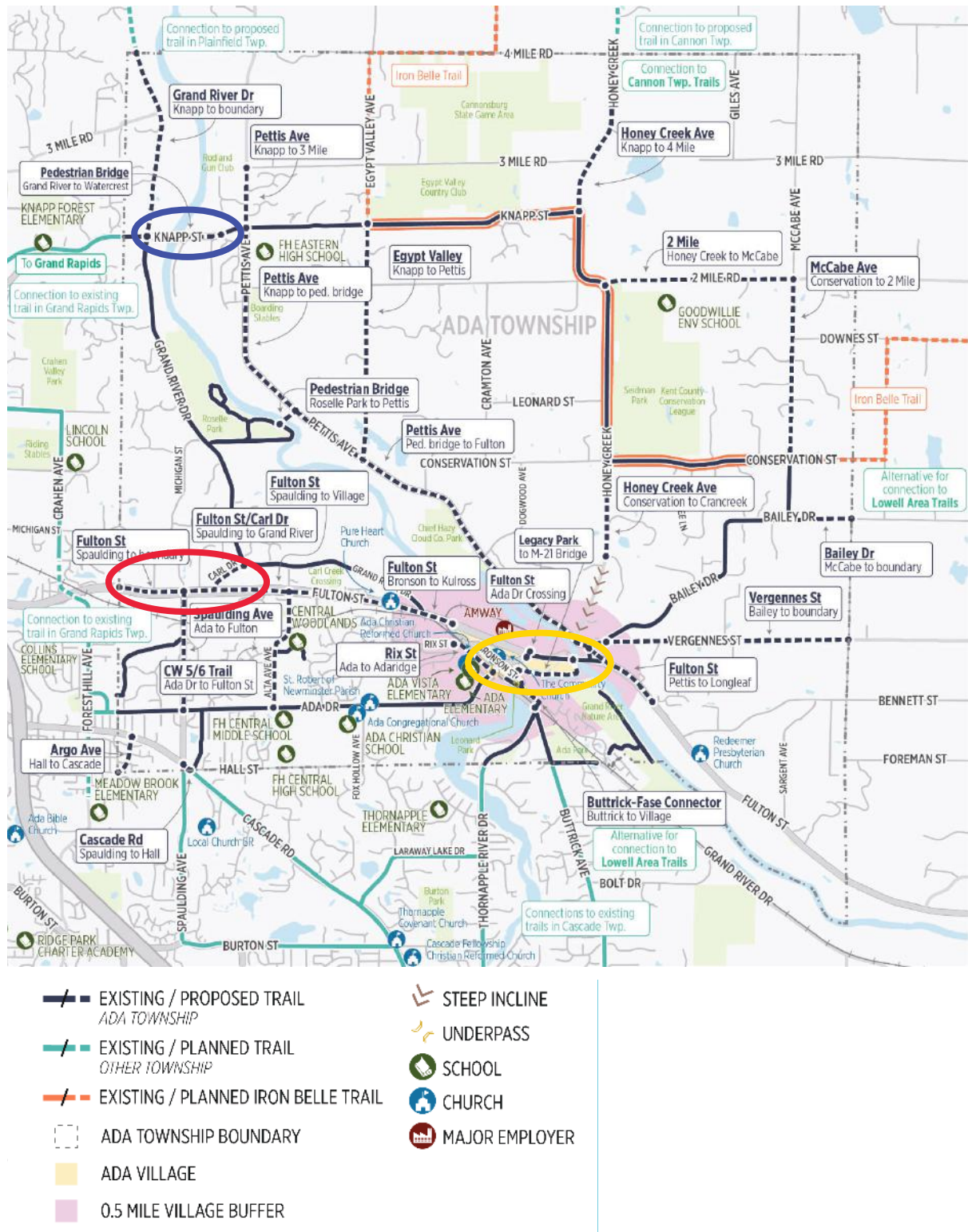
Project Budget

Project Elements		
Fulton St./M-21 Crossing	\$	2,622,000
Fulton Street Trail	\$	2,528,200
Knapp St. Pedestrian Bridge	\$	5,899,500
Total	\$	11,049,700

Challenges/Barriers to Success

This project will require a permit from the Michigan Department of Environment, Great Lakes, and Energy (EGLE).

Figure 4 Map of Non-Motorized Candidate Projects



Chief Hazy Cloud Park

Project Overview

Kent County's Chief Hazy Cloud Park features 4,700 feet of frontage on the Grand River and 122.6 acres of woods and wetlands. A small parking area provides river access in the original section of the park, perfect for boaters and fishers. Large sections of the park are currently undeveloped, but a master plan has been completed that lays out a broader vision for the site including multiple trailhead parking areas, picnic areas, restrooms, equestrian and nature trails, a pedestrian bridge over the Grand River to Ada Township's Roselle Park, and public river access.

Project Phase & Timeline

A conceptual master plan is completed. The project timeline has not yet been finalized for this project.

Project Budget

TBD

Challenges/Barriers to Success

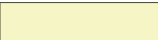
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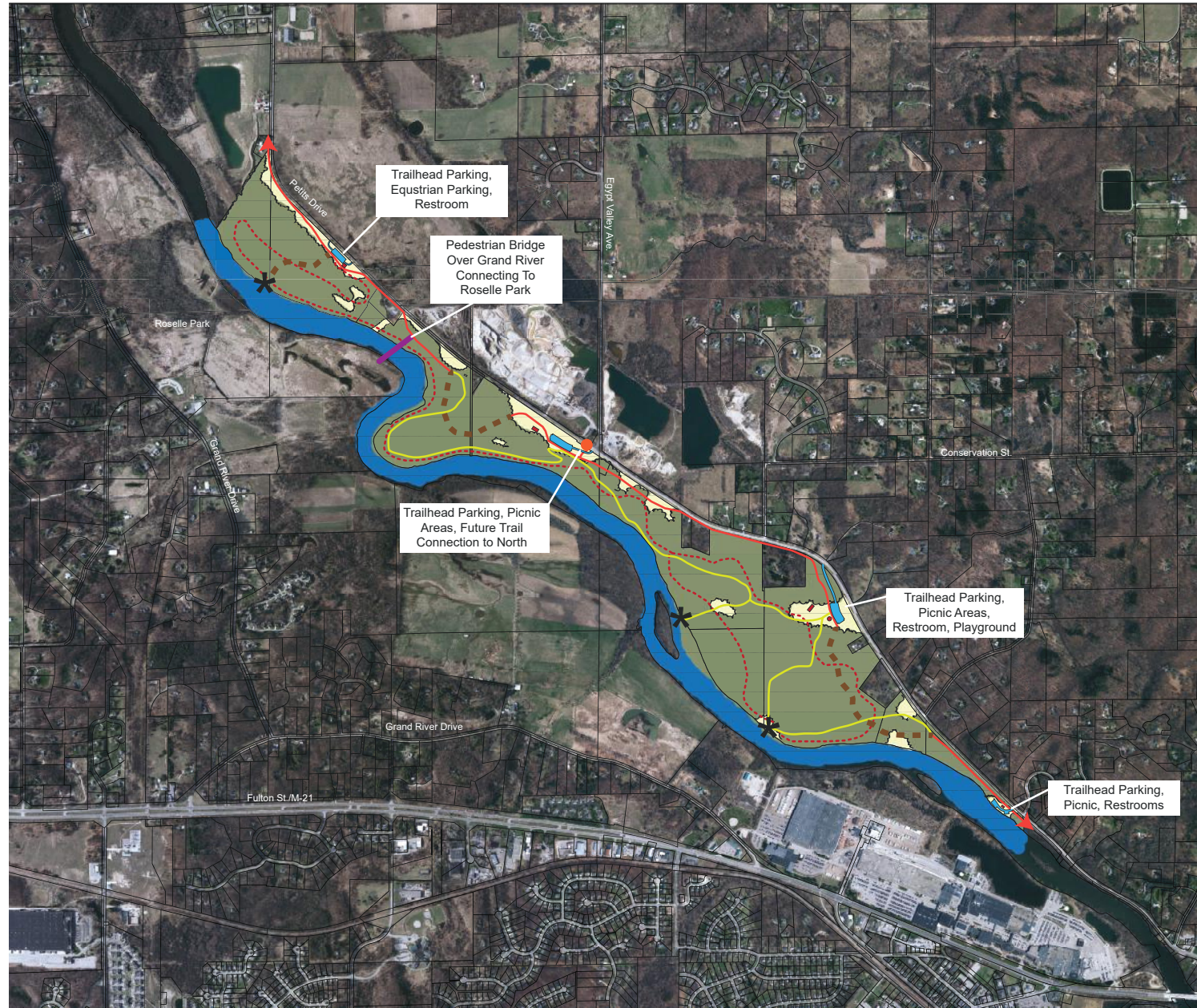


Chief Hazy Cloud Park

Kent County Parks Department
Preliminary Master Plan
January 2017

Legend

	Wooded Area
	Open Grassy Areas
	The Grand River
	12' Wide Multi-Purpose Trail
	Boardwalk
	Equestrian Trails
	Nature Trail
	Pedestrian Bridge Over Grand River
	Future Trail Connection (Tunnel)
	Overlooks, Scenic Views, Wildlife Viewing, Fishing



Grand Rogue Park & Trail

Project Overview

Grand Rogue Park is a 66-acre site located on the Grand River in southeastern Plainfield Charter Township at the convergence of the Rogue River and the Grand River. The site currently has ponds, hiking trails, and picnic areas. A master plan has been completed to further develop this site to include new paved and natural trails, trailhead parking, public access to inland ponds and the two rivers, accessible kayak/canoe launch, restrooms, and a pedestrian bridge over the Rogue River that will eventually connect into the Grand Rapids to Lowell Trail. This plan will be implemented in four phases:

Phase I: River edges trail, pavilion, kayak launch, and other public amenities

Phase II: Drive extension, parking, an additional kayak launch, and other public amenities

Phase III: Inland trails, bridge over Rogue River, and Grand River Boardwalk

Phase IV: Restrooms, pond and river overlooks, inland fishing dock, picnic shelters, plantings and landscaping, and other public amenities

Project Phase & Timeline

The project design is underway. Phase I is slated to be completed in 2023. Design for Phases II through IV will be completed in 2023 with construction completed by 2025 if all funding can be secured.

Project Budget

Project Elements		
Phase I	\$	604,600
Phase II	\$	613,200
Phase III	\$	2,844,000
Phase IV	\$	1,738,200
Total	\$	5,800,000

Challenges/Barriers to Success

This project will require a permit from EGLE.

Grand Rogue Park Master Plan

Plainfield Charter Township



Grand Isle
Park



1/7/2020

Prein & Newhof

Westside Park (Ann St north to 96)

Project Overview

There is a long-term vision to develop a 1.1 mile stretch of natural area north of Ann Street, between the Grand River and US-131 up to the I-96 interchange. No plans are yet in place for this site, which crosses the City of Grand Rapids and City of Walker boundaries.

Project Phase & Timeline

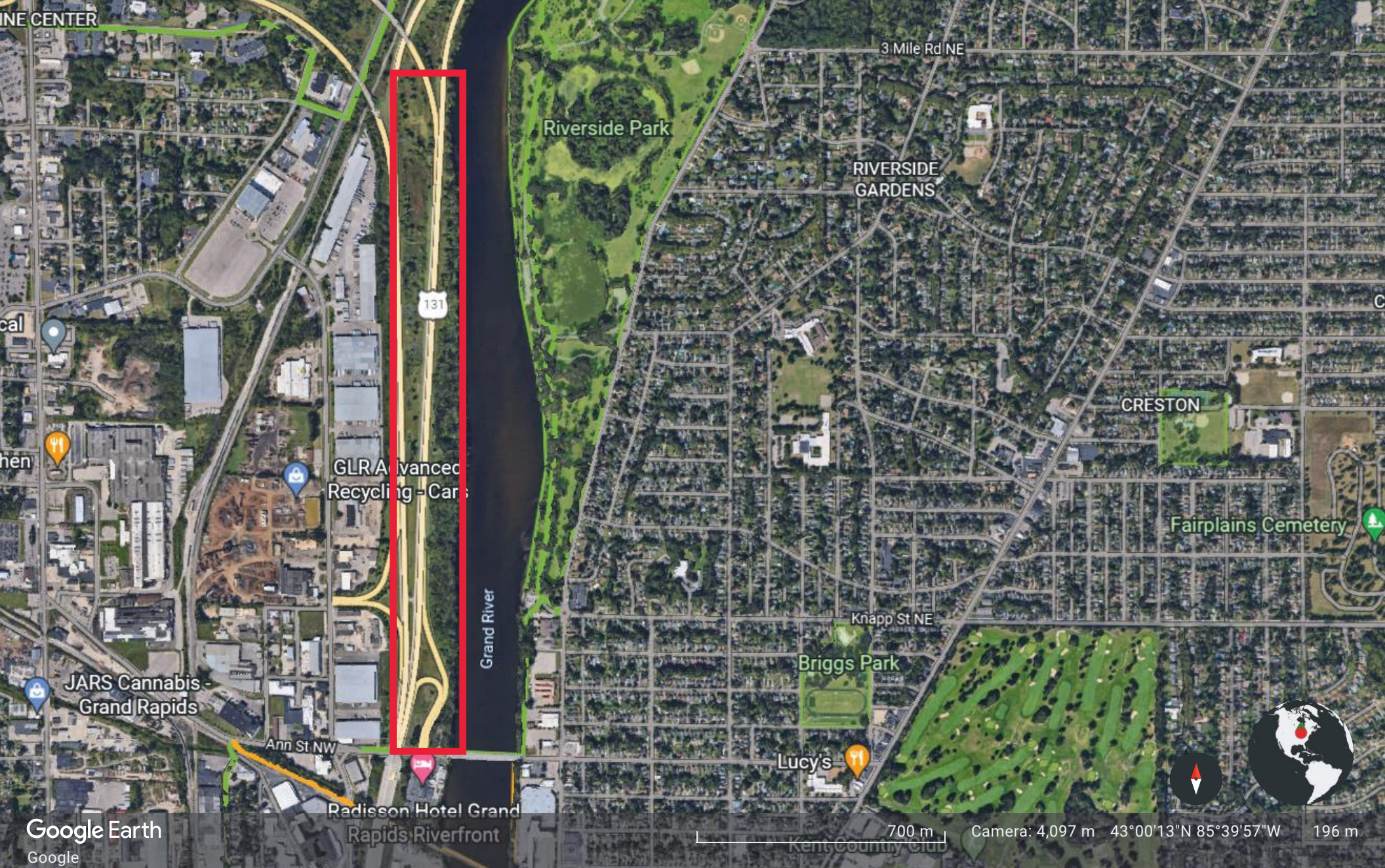
TBD

Project Budget

TBD

Challenges/Barriers to Success

This project will require cooperation from the Michigan Department of Transportation which is the current site owner.



Indian Mill Creek

Project Overview

The Indian Mill Creek watershed comprises 10,979 acres within the City of Grand Rapids, City of Walker, and Alpine Township. The creek and its tributaries are approximately 5.4 miles in length flowing into the Grand River directly north of the Genesee & Wyoming Inc. railway. The creek largely borders industrial and private residential property. There is an opportunity to address environmental concerns within the watershed to improve the habitat for fish, wildlife, and plant life in addition to providing better public access to create outdoor recreation opportunities for residents and visitors.

Project Phase & Timeline

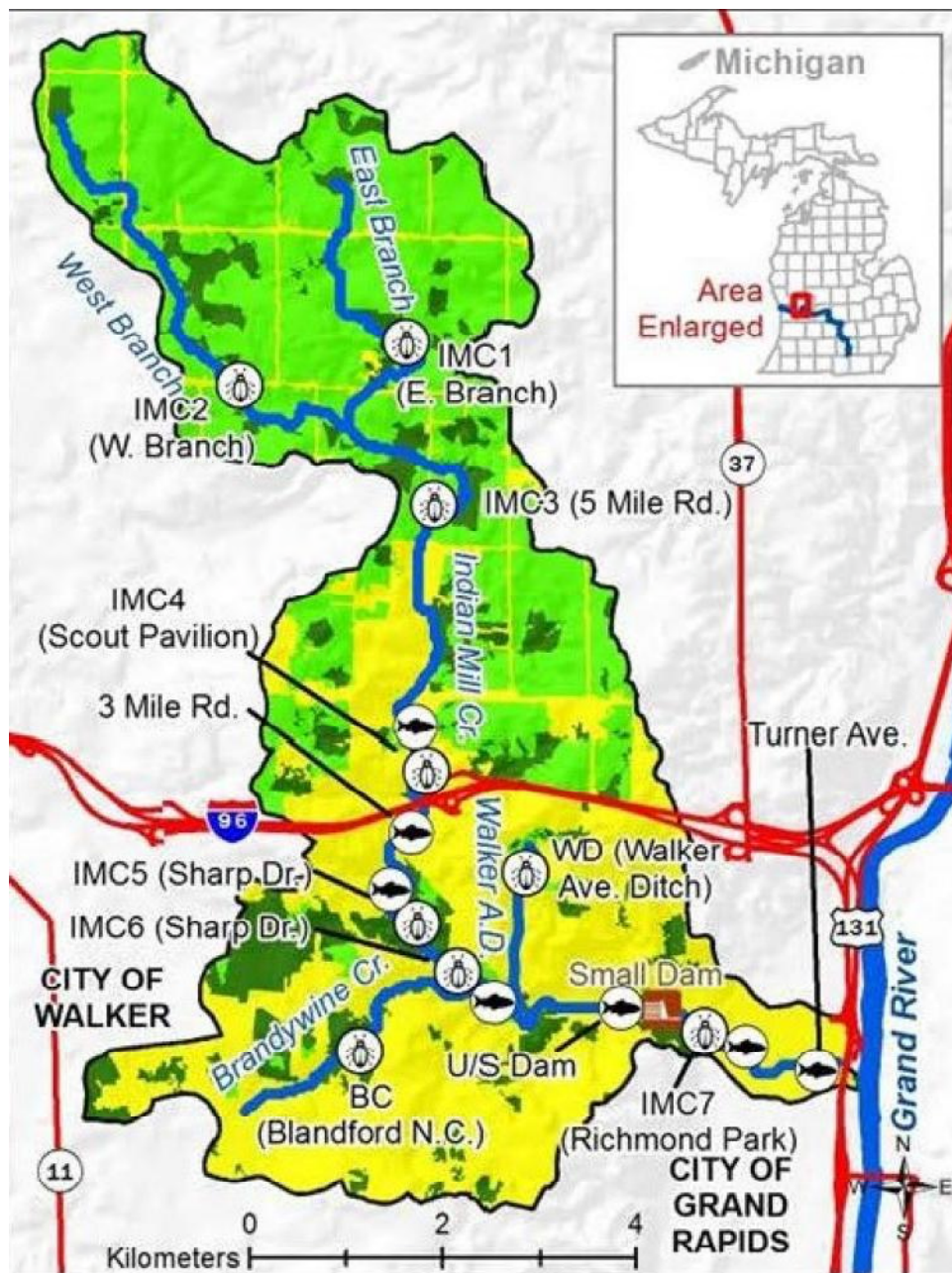
TBD

Project Budget

TBD

Challenges/Barriers to Success

TBD



Indian Mill Creek Watershed



Sources: Michigan Geographic Framework, NLCD 2011, USGS NED 30m DEM.

Grand Rapids to Lowell Trail

Project Overview

Kent County, in partnership with local units of government and regional stakeholders, has been planning a trail loop that connects downtown Grand Rapids to the City of Lowell and beyond. The loop contains two distinct sections. The south section follows the active Grand Rapids Eastern Railroad owned by Genesee & Wyoming Inc. The 20-mile trail section would begin at the Grand River in the City of Grand Rapids and connect through Grand Rapids Township, Ada Township, and Lowell Township. The north section of trail more closely follows the Grand River watershed north through Plainfield Township, Cascade Township, Ada Township, Vergennes Township, and into Lowell. A total of 23 miles of new trail connectors are proposed in alignment with local trail plans to close key gaps in the greenway trail network. Both sections converge into the Lowell Area Recreational Authority trail connecting to the North Country Trail and the Fred Meijer Flat River Valley & Grand River Valley Rail Trail networks. Ultimately when completed and matched with efforts along the downtown Grand Rapids river edge and Ottawa County, this project will create a 76-mile contiguous trail running from Grand Haven and Lake Michigan to the east end of Kent County, and eventually extending all the way to Owosso.

Project Phase & Timeline

The conceptual design was completed in June 2022. Kent County is planning to complete a fundraising feasibility study in early 2023 and, if there is sufficient evidence of support, launch a fundraising campaign in early 2023. The timeline for construction has not been established and would be dependent on fundraising progress. Some portions of the trail in Ada Township are currently being complete and more sections are slated to be completed in 2023.

Project Budget

North Section (Grand Rapids-Plainfield-Ada-Vergennes-Lowell)

Trail Sections

White Pine Trail to Northland Drive	\$	3,053,800
Northland Drive to Egypt Valley	\$	4,003,800
Egypt Valley to 3 Mile	\$	4,926,970
Bailey/Vergennes to Alden Nash and Existing Trail	\$	5,959,000
Cannonsburg and Townsend Park Trail Connection	\$	2,000,000
Chief Hazy Cloud to Roselle Park Bridge	\$	5,500,000
City of Lowell to Lowell Regional Park and Fairgrounds	\$	4,500,000
Sub-Total	\$	29,943,570

Trailheads (Restroom and 100 Car Parking)

Chief Hazy Cloud Park	\$	1,500,000
Johnson Park/Millennium Park	\$	1,500,000
Lowell Regional Park	\$	1,500,000
Sub-Total	\$	4,500,000
Engineering and Contingencies (20%)	\$	8,473,038
Total	\$	42,916,608

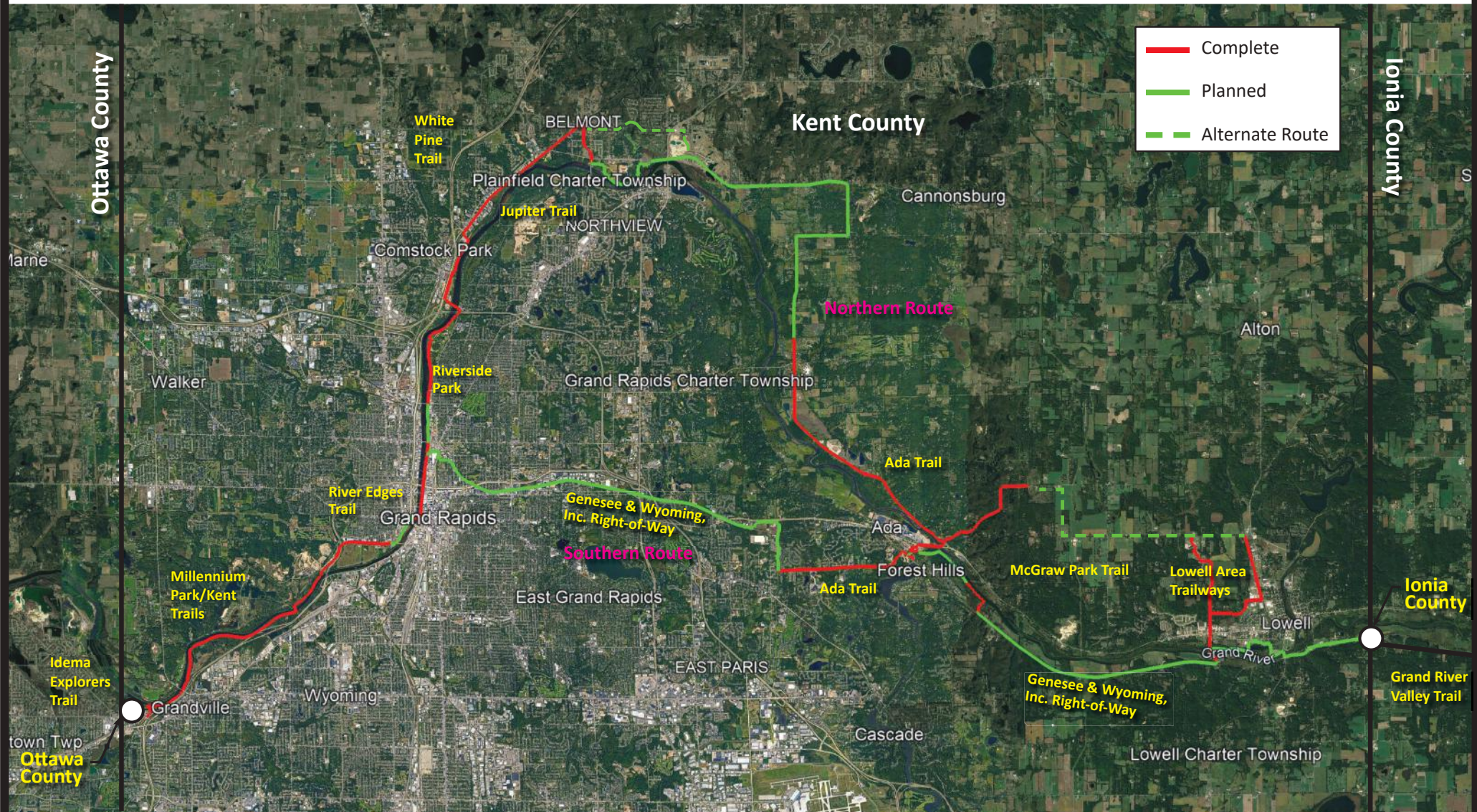
South Section – Rails with Trail (Grand Rapids-Plainfield-Ada-Lowell)**Trail Sections**

Railroad Right of Way, River Edges Pathway to Spaulding/M21	\$	8,900,000
Utility Right of Way, M21 to Ada Drive	\$	2,072,000
River Street, Bronson Street to Thornapple River Drive	\$	55,000
Legacy Park to McGraw Park Trail	\$	4,415,000
Railroad Right of Way, McGraw Park Trail to Lowell Footbridge	\$	6,025,000
Lowell Footbridge to Grand River Valley Rail Trail	\$	2,410,000
Engineering and Contingencies (20%)	\$	4,775,400
Total	\$	28,652,400

Challenges/Barriers to Success

The most significant challenge is securing easements along the Grand Rapids Eastern Railroad right of way to complete the South Section. The process to secure an easement from Genesee & Wyoming Inc. is moving forward.

Kent County Grand River Greenway



Kent County Road Commission Site

Project Overview

The City of Grand Rapids is in the process of acquiring the former Kent County Road Commission site located south of Anne Street along Scribner Avenue and the Grand River. The City is planning to redevelop the 14.4 acre site to house government services currently located at the 201 Market Site. Additional planning is necessary to finalize the site plan.

Project Phase & Timeline

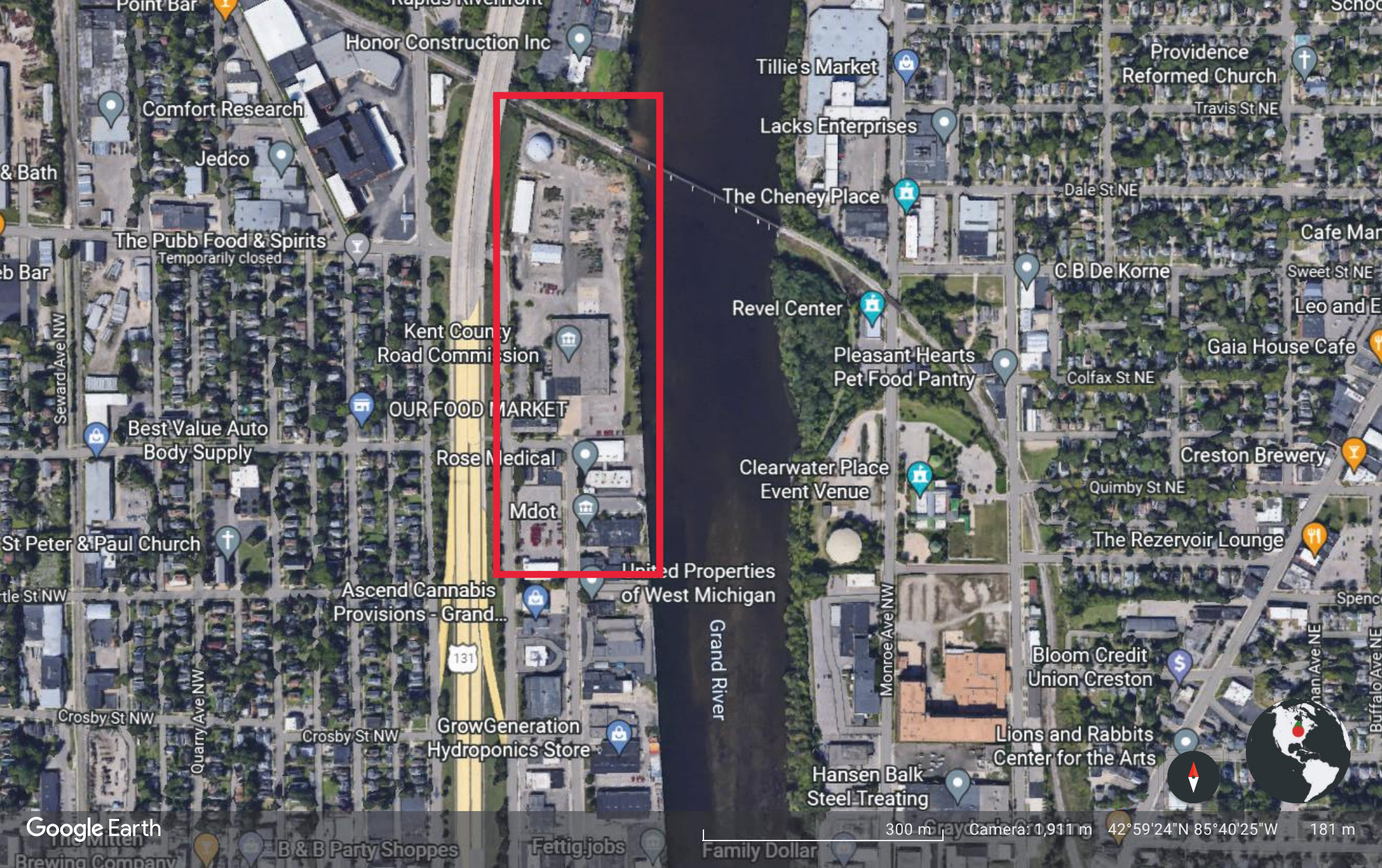
TBD

Project Budget

TBD

Challenges/Barriers to Success

TBD



New Trail Connection - Leonard Street to Ann Street

Project Overview

The City of Grand Rapids is completing a trail segment between Leonard and Ann Streets, connecting the river trail system to Riverside Park. Completing this section will connect downtown Grand Rapids to the Fred Meijer White Pine Trail in addition to more than a hundred miles of regional destination trails. The project proposes three trail underpasses at Ann Street, Leonard Street, and the railroad to provide safe passage through these dangerous intersections. Doing so will provide a more family friendly and safe trail for all to enjoy. Additionally, the trails will be lined with overhead lighting, providing safety and security for pedestrians. Retaining walls will be placed at the underpasses and one point along the trail providing a decorative element and protection from erosion.

Project Phase & Timeline

Design/Engineering and permitting is currently underway. Pending permitting and fundraising progress, the City plans to release bids for work in early 2023 with construction to be completed by early 2024.

Project Budget

Project Elements		
Underpasses (Ann, Leonard, Railroad)	\$	4,186,086
Pedestrian lighting, electrical	\$	646,925
12-foot-wide concrete path	\$	494,185
Retaining walls (not included in underpasses)	\$	137,916
Mussel Survey/relocation	\$	75,000
Easements	\$	80,000
Engineering/Inspections	\$	665,343
Other typical trail construction	\$	520,861
Total	\$	6,806,316

Challenges/Barriers to Success

Permit applications are in progress to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) for the riverfront portions of trail. Additionally, the Leonard to Ann Street Trail crosses the Grand Rapids Eastern Railroad right of way. An easement will need to be granted to construct the trail as currently designed. There are limited options for the trail route if this request is not granted. Genesee & Wyoming Inc. has moved forward with the easement process and has indicated this may be approved.



MASTER PLAN LEONARD TO ANN GRAND RIVER EDGES TRAIL



GRAND RIVER EDGES TRAILWAY - LEONARD TO ANN RAILROAD UNDERPASS





GRAND RIVER EDGES TRAILWAY - LEONARD TO ANN LEONARD STREET UNDERPASS



Adventure Park (Decommissioned City Water Storage Yard)

Project Overview

The City of Grand Rapids Water Department is in the process of decommissioning its storage yard located on the east bank of the Grand River along North Monroe Avenue and just south of the Genesee & Wyoming Railroad. This site will be renovated to serve as a riverfront park. The Adventure Park will border the adjustable river barrier that will be installed as part of the Grand River Revitalization project to prevent upriver migration of sea lamprey. The Adventure Park will provide boat passage around the barrier and river access. The Leonard Street to Ann Street trail will bisect the park. Additional park elements are referenced in the project map on the next page.

Project Phase & Timeline

The conceptual design has been completed. Timing of the project is dependent on timing of the Grand River Revitalization project and of installation of the adjustable barrier.

Project Budget

Project Elements	
Acquisition	\$ 8,000,000
Park Space + Trail	\$ 14,410,600
Total	\$ 22,410,600

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward.

DECOMMISSIONED WATER DEPARTMENT STORAGE YARD SITE

SCHEMATIC DESIGN PLAN

This site will be decommissioned as a storage yard for the City of Grand Rapids Water Department and is re-envisioned as a riverfront park. When the rapids are restored and an adjustable hydraulic structure is added, boat passage and river access will dramatically transform this site into a regional activity hub. Design plans call for:

- ① An elevated canopy trail to connect pedestrians to the forested canopy and protect habitat areas.
- ②a Protected ceremonial fire rings for Anishinaabe and Great River Bands of Ottawa Indian use.
- ②b Public-use outdoor fire pits Activate the plaza in the winter
- ③ A winter lodge for year-round educational and cultural events.
- ④ A repurposed water storage tank provides a unique space for large events and daily use.
- ⑤ A log-jam inspired nature playground ensures this park will provide on-land destination recreation for users of all ages.
- ⑥ A dedicated drop-off area can accommodate large group access and circulating river traffic.
- ⑦ The mid-level terrace provides a flexible, multi-use lawn area closer to the water.
- ⑧ River terraces provide additional access to the water's edge for anglers, tubers, and waders.
- ⑨ Small gathering overlooks allow friends, family and fans to watch boaters from the river's edge.

Integrated Grand River restoration improvements:

- ⑩ Adjustable hydraulic structure (AHS)
- ⑪ AHS maintenance and control building
- ⑫ Boat passage



PRECEDENT IMAGERY - DESIGN & PROGRAM INTENT



① Elevated canopy trail



②a Public-use outdoor fire pits



④ Repurposed water tank



⑤ Log jam inspired nature playground



⑧ River terraces



⑨ Small gathering overlook



Conceptual rendering of Decommissioned Water Department Storage Yard Site

Hill and River Network

Project Overview

The Hill and River Network is a comprehensive connection strategy that addresses barrier to pedestrian access between Grand Rapids' Belknap Hill and Monroe North neighborhoods, Downtown Grand Rapids, and the Grand River. Through a series of streetscape improvements, Monroe North will become more pedestrian friendly. This project will include a reconfiguration of Division & Ionia and creation of a linear park along the roadways running north and south that will include a pedestrian walkway and a two-lane bicycle path. The hillside along Division will become a public park with natural areas, a fitness park, an overlook, pathways connecting to the Belknap neighborhood, a dog park, and new lighting. Finally, an abandoned rail tunnel that runs under I-196 will be repurposed as a pedestrian pathway providing a safe connection between Downtown Grand Rapids and Monroe North.

Project Phase & Timeline

The overall timeline has yet to be developed. Design Development will continue through 2022 resulting in a more detailed timeline for implementation.

Project Budget

Project Elements		
Hillside Park	\$	32,000,000
Ionia conversion to Division Ave	\$	12,000,000
Rail Tunnel Pedestrian Connector	\$	2,700,000
Total	\$	46,700,000

Challenges/Barriers to Success

TBD

DOWNTOWN GRAND RAPIDS HILL AND RIVER NETWORK

SUMMARY OF PROJECT

A comprehensive **connection strategy** related to Belknap Hill, Monroe North, Downtown Grand Rapids, and the Grand River.

This series of projects is known as the **Hill and River Network**.



NEWBERRY LOOKING SOUTH





Coldbrook Park (Decommissioned City Water Pumping Station)

Project Overview

The City of Grand Rapids Water Department will decommission the existing water pumping station located on the east bank of the Grand River where North Monroe Avenue intersects with Leonard Street. This park project will daylight part of Coldbrook Creek which was buried as part of previous development. The project elements are highlighted in the project map on the next page.

Project Phase & Timeline

The conceptual design has been completed. The project timeline has not yet been developed.

Project Budget

Project Elements	
Water Building Acquisition	\$ 6,000,000
Water Building Redevelopment	\$ 10,000,000
Park Space	\$ 7,000,000
Total	\$ 23,000,000

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward.

COLDBROOK DECOMMISSIONED WATER PUMPING STATION SITE

SCHEMATIC DESIGN PLAN

This site is unique because Coldbrook Creek historically outfallled to the Grand River at this location, but was buried in a pipe as part of industrial development. This is an opportunity to divert a portion of the creek into a low-flow channel and open up the outfall for natural, visible stormwater treatment. Following the Grand River restoration, this site will be a critical hub for river access.

- ① The mid-block crossing and low-trail connection links this site to the larger River Trail network.
- ② Stepped river access connects to the trail and can potentially be used for commercial boat launches and fishing access.
- ③ Existing overlook to remain.
- ④a Diversion and surfacing of a portion of Coldbrook Creek demonstrates the channel's historic alignment.
- ④b Water quality treatment area at the outfall treats stormwater before it enters the Grand River.
- ⑤ A reinforced earth/green wall softens the corridor.
- ⑥ A sculptural play area connects learning and play.
- ⑦ A repurposed water department building is planned for public use, and may include relocation of the Parks and Recreation offices, recreation fitness classes, and river-centric event spaces.
- ⑧ Flexible plaza spaces adjacent to the building provide areas for outdoor learning and events. Cultural activities, such as canoe building with the Anishinaabe and programmed outdoor recreation activities should be pursued here.
- ⑨ Mixed use redevelopment is anticipated at the corner of Leonard Street and North Monroe Avenue with plazas oriented towards the river.
- ⑩ A large multipurpose lawn provides flexible space with an option for future bus drop off and trailers transporting tubers and kayakers to the site.
- ⑪ ADA and small parking lot is located onsite.
- ⑫ An emergency boat-access ramp, placed in coordination with the ongoing Grand River restoration planning.
- ⑬ Proposed overlook complements existing design.



PRECEDENT IMAGERY - DESIGN & PROGRAM INTENT



① Mid-block crossing and low-water trail connection



③ Existing overlook



④a Diversion and surfacing of a portion of Coldbrook Creek



⑤ Reinforced earth / green wall



⑥ Sculptural play area



Conceptual rendering of Coldbrook Decommissioned Water Pump Station Site



RIVER FOR ALL
GRAND RIVER
CORRIDOR

IMPLEMENTATION
PLAN AND RIVER
DESIGN GUIDELINES

FINAL DESIGN
RECOMMENDATIONS

Coldbrook Creek

Project Overview

Coldbrook Creek is an urban waterway that flows from Fisk Lake in East Grand Rapids to the Grand River (location of the future Coldbrook Park). Much of Coldbrook Creek is buried but there are opportunities to daylight the creek to create more greenspace in Grand Rapids' northeast side. Additional planning is necessary for these efforts.

Project Phase & Timeline

TBD

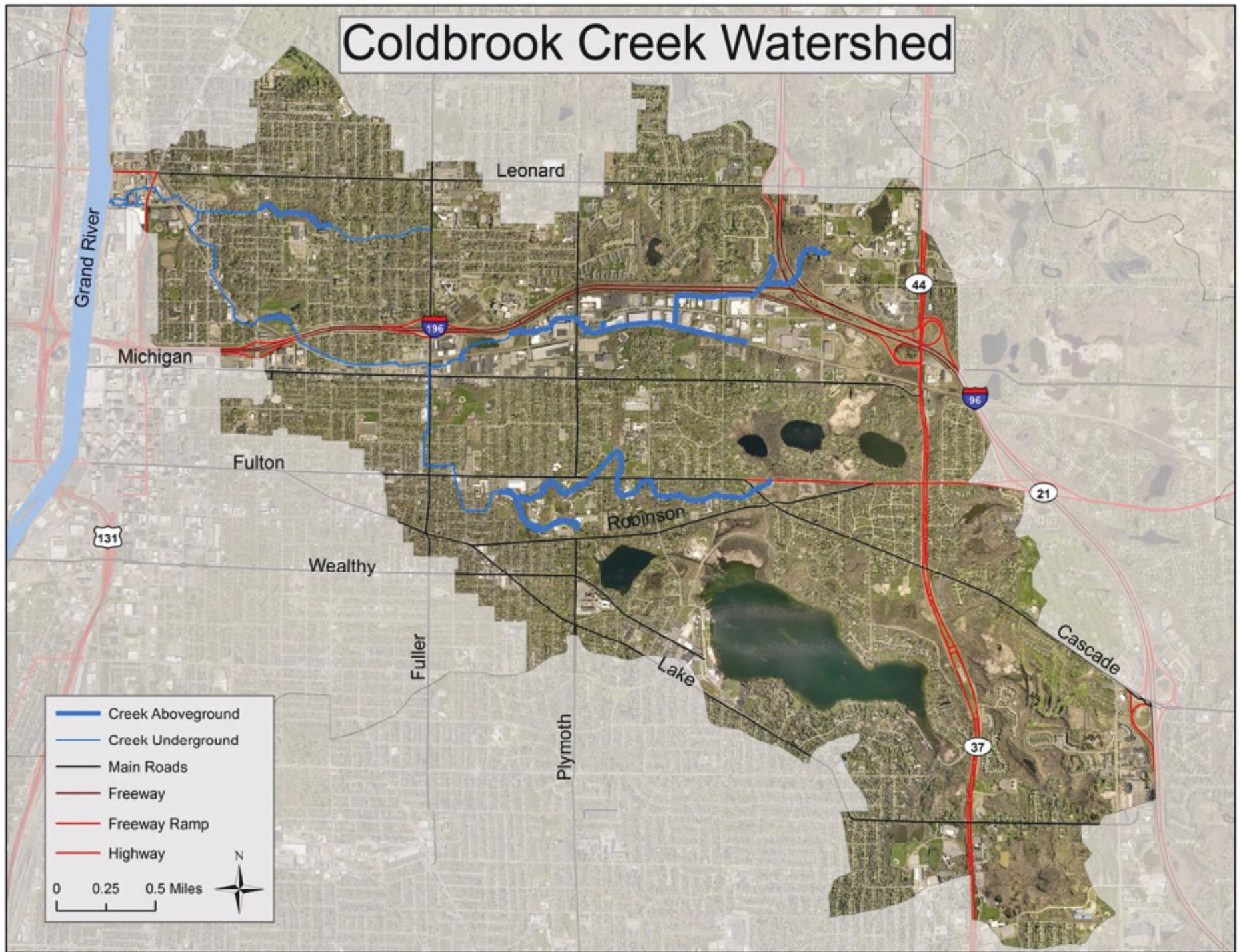
Project Budget

TBD

Challenges/Barriers to Success

TBD

Coldbrook Creek Watershed



Canal Park

Project Overview

Canal Park is an existing community amenity that will be enhanced with new park spaces, trail update, and river access.

Project Phase & Timeline

The conceptual design has been completed. The project timeline has not yet been developed.

Project Budget

Project Elements	
Trail, Edge, & Parks Space	\$ 6,500,000
Total	\$ 6,500,000

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward.



CANAL PARK ENLARGEMENT PLAN

6TH STREET & CANAL PARK MASTER PLAN

City of Grand Rapids, Michigan



Sixth Street/Monroe North Park

Project Overview

The Sixth Street/Monroe North Park will be a key access point for the Grand River's restored rapids. The park will feature a boat launch and public access to the river down a terraced bank that will be ADA accessible to ensure everyone can enjoy the river environment. The terraced bank will also improve stormwater runoff and improve flood management. A pavilion and public lawn will provide opportunities for community events and concerts. The park will also feature a skate park.

Project Phase & Timeline

The design has been completed to 30%. This site will be the staging area for removal of the sixth street dam. No renovation work will be able to start until that portion of the Grand River Revitalization project is complete. While the City of Grand Rapids owns most of the property, a portion of the site is owned by Spectrum, requiring an acquisition.

Project Budget

Project Elements	
Trail, Edge & Park Space - 1-96 to substation (555 Monroe)	\$ 15,000,000
Fairbanks Substation Relocation	\$ 10,000,000
Trail, Edge & Parks Space - Substation to Newberry	\$ 4,000,000
Total	\$ 29,000,000

Challenges/Barriers to Success

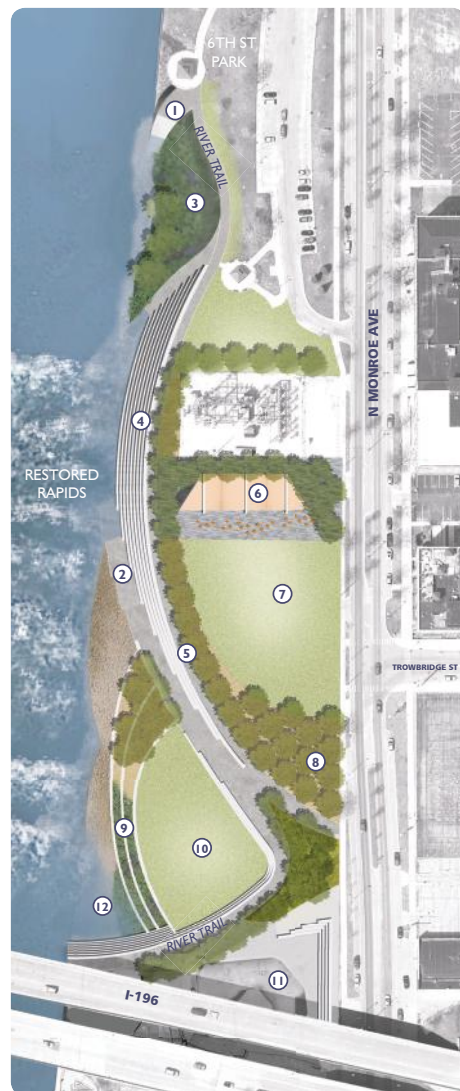
This project will require EGLE permitting before it can move forward. An acquisition of property from Spectrum will be required as well.

MONROE NORTH SITE

SCHEMATIC DESIGN PLAN

The Monroe North opportunity site faces noise from nearby I-196, but conversations with the community yielded creative park uses to parallel the rapids.

- ① The river landing provides safe river access and a public boat launch space.
- ② An ADA accessible ramp provides river recreation opportunities to the entire community south of the stepped seating terraces.
- ③ A daylighted stormwater outfall and stormwater marsh provide resilient, natural stormwater treatment, and re-establish a healthy river edge.
- ④ Stepped seating terraces at the rapids edge provide an expanded, resilient rapids viewing area.
- ⑤ A shaded seating edge expands spectator access, even during high water events.
- ⑥ An event pavilion accommodates concessions, restrooms and other river-oriented programs.
- ⑦ An event lawn is sized for markets, concerts and a number of other uses.
- ⑧ A community plaza along Monroe Avenue connects the community to the river's edge.
- ⑨ Stormwater terraces treat onsite runoff and provide ecological interest and support habitat restoration.
- ⑩ A flexible mid-level terrace can host seasonal events and recreation.
- ⑪ A skate park activates the area beneath I-196.
- ⑫ Primary boating/tubing takeout at the bottom of the restored rapids.



PRECEDENT IMAGERY - DESIGN & PROGRAM INTENT



① River landing



③ Stormwater marsh



④ Stepped seating terraces



⑥ Event pavilion with services to support recreation



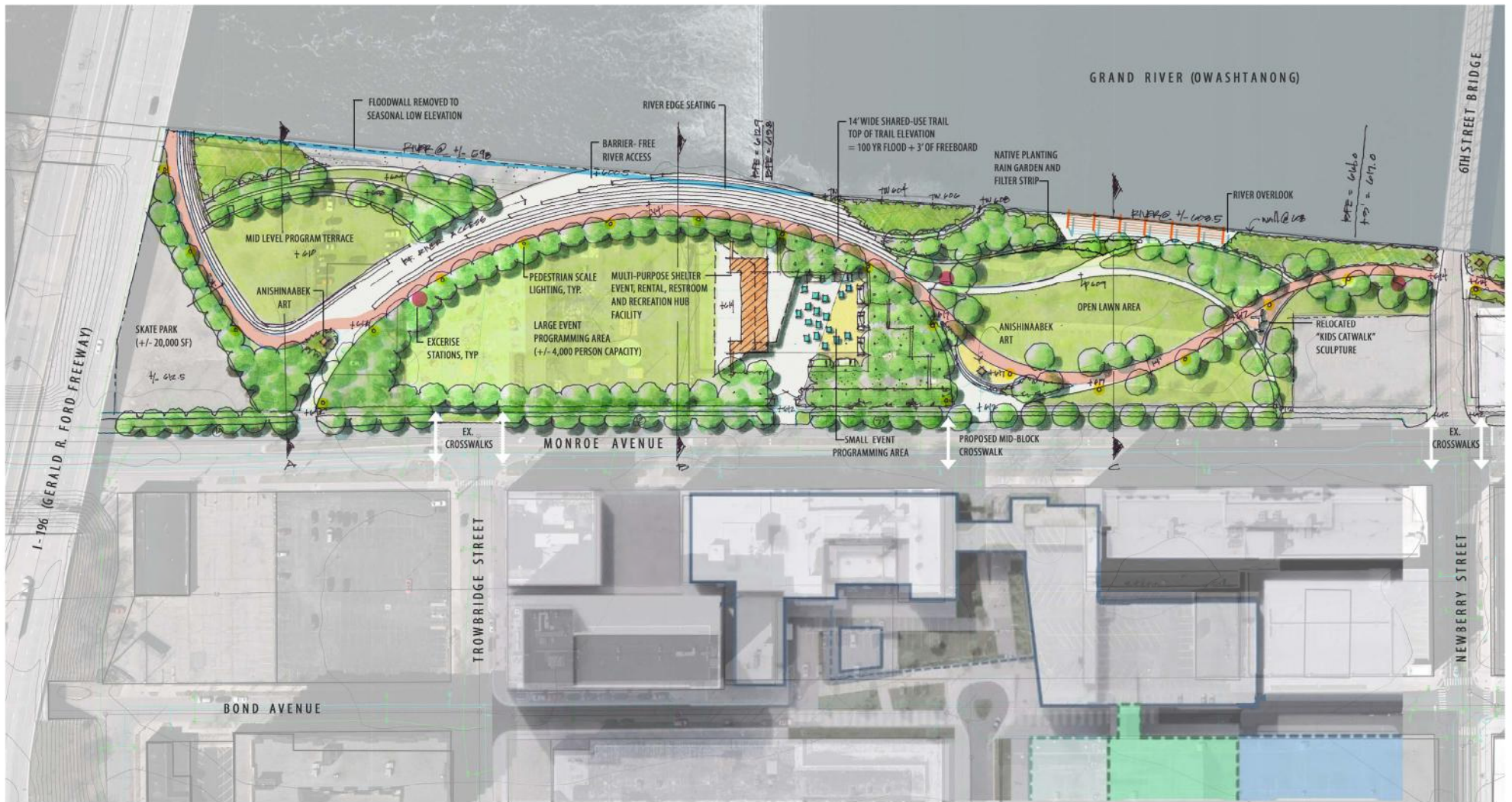
⑥ Event pavilion with services to support recreation



⑩ Skate park



Conceptual rendering of Monroe North Site



6TH STREET PARK ENLARGEMENT

6TH STREET & CANAL PARK MASTER PLAN

City of Grand Rapids, Michigan

Fish Ladder Park

Project Overview

The Fish Ladder Park is a functional piece of architectural artwork designed by artist Joseph Kinnebrew in 1975. The structure allows migrating fish to navigate upstream around the Sixth Street Dam. Through community engagement through various planning efforts, this structure has been identified as a valued community gathering spot that must be preserved. The City of Grand Rapids will do just that, keeping it in place after the removal of the 6th Street Dam. The surrounding area will be redeveloped into a park that will be a primary destination for whitewater competition spectators, as well as a hub for boaters and fishing access. Additional project details are included in the map on the next page.

Project Phase & Timeline

Project design is completed to 30%. The timeline is tied directly to removal of the 6th Street Dam. Once the timing of the dam removal is better understood, the City of Grand Rapids can finalize the timeline for the Fish Ladder Park project.

Project Budget

Project Elements	
Trail, Edge, New Greenspace	\$ 4,124,200
Total	\$ 4,124,200

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward. As discussed previously, this project cannot move forward until the removal of the 6th Street Dam.

FISH LADDER PARK

SCHEMATIC DESIGN PLAN

Fish Ladder Park has been identified as an important community gathering spot and the structure is an iconic piece of functional art. Following removal of the 6th Street Dam, the Fish Ladder structure will be modified to continue to provide fish passage, and the surrounding park will become a primary destination for whitewater competition spectators, as well as a hub for boaters and fishing access.

- ① An upper-falls trail deck is located in the existing tree canopy north of the Fish Ladder.
- ② The existing fish ladder structure will remain for rapids viewing and fish observation.
- ③ The existing pump station is operated by City Environmental Services and will remain onsite.
- ④ A small changing room, restroom, and fish cleaning station provide services for river users and screen the pump station maintenance court.
- ⑤ A flexible plaza and adjacent parking area can accommodate small seasonal farmers' markets or other events.
- ⑥ A series of picnic groves are located near the parking lot to provide shaded seating.
- ⑦ A sloped event lawn next to new trees that are planted on the high point of the existing berm to provide shade.
- ⑧ An overlook deck screens an existing outfall.
- ⑨ River seating terraces allow viewing and lounging at the water's edge.
- ⑩ Emergency boat ramp provides river access.
- ⑪ Upper viewing perches on the embankment link Scribner Avenue to Fish Ladder Park, provide small lounging pockets, and expand spectator areas.
- ⑫ A high-water trail connection and stepped walkway creates a critical year-round trail connection for the west bank of the Grand River.
- ⑬ Angling and wading access steps link the River Trail to the bank below the rapids.



PRECEDENT IMAGERY - DESIGN & PROGRAM INTENT



① Upper falls trail deck in tree canopy



② Existing fish ladder (to remain)



⑦ Sloped event lawn next to new trees



⑧ Overlook deck



⑨ River's edge seating terrace



⑬ Angling and wading access steps



Conceptual rendering of Fish Ladder Park

225 Michigan Street NW Site (USPS)

Project Overview

The current United State Postal Service (USPS) site along the Grand River just north of Michigan Street is a desirable development site. This development will require acquisition from the USPS. A timeline for these negotiations has not been established.

Project Phase & Timeline

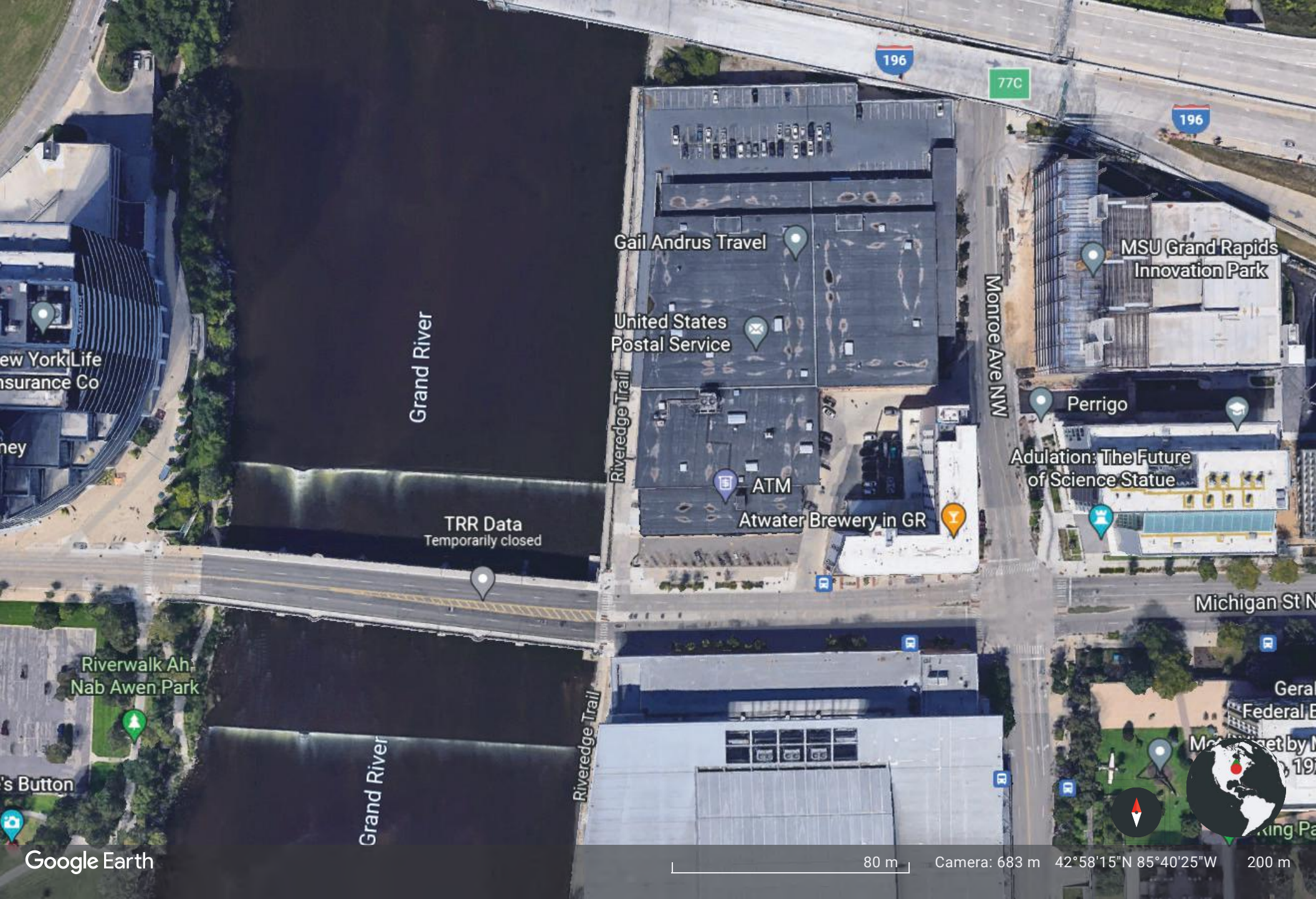
TBD

Project Budget

TBD

Challenges/Barriers to Success

The site would need to be acquired from the USPS which will need to relocate operations.



Ah Nab Awen Park

Project Overview

Ah Nab Awen Park was developed in celebration of America's bicentennial, opening in 1979. This park was built on the historic grounds of a Native American village and burial mounds, removed in the late 1800s. The park's name was proposed by elders of the Three Fires Council meaning "Resting Place." The City of Grand Rapids has completed a plan, with significant participation of the region's Anishinaabe tribes, to honor the region's indigenous history. The upper park section will be completed first, containing three public circles representing the three Anishinaabe tribes (Ottawa, Potawatomi, and Chippewa). These areas will contain public seating and iconography significant to the Anishinaabe. The upper area will also feature new plantings and landscaping in addition to walkways to the riverfront. The lower area will be completed as a second phase once the Grand River Revitalization project is completed. This portion of the project will include terraced walkways to the riverfront, new plantings, public seating areas, preservation of the existing stage area, and a public trail along the riverfront.

Project Phase & Timeline

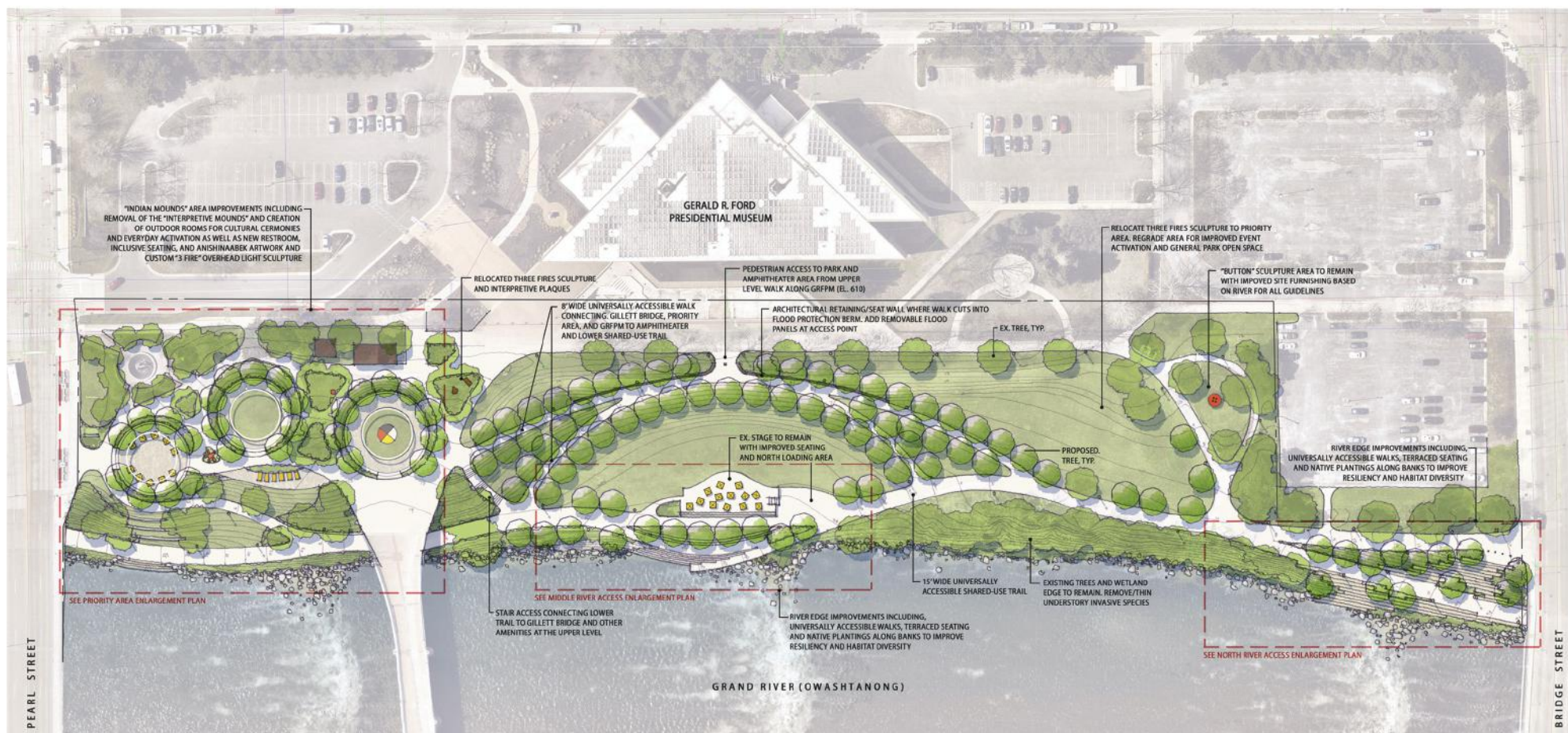
The upper priority area design is completed to 60% with the lower section design currently being completed. Bidding for the upper priority area will be let in December 2022 with work to be completed in 2023. No timeline has been set for the lower park area.

Project Budget

Project Elements	
Upper Priority Area	\$ 2,697,045
Lower Park Space	\$ 3,765,000
Total	\$ 6,462,045

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward. The lower park area will be used as a staging and storage area during completion of the Grand River Revitalization Project. Work on this lower area cannot begin until the Revitalization Project is completed.



AH-NAB-AWEN PARK

City of Grand Rapids, Michigan
APRIL 2020

OVERALL MASTER PLAN-OPTION A



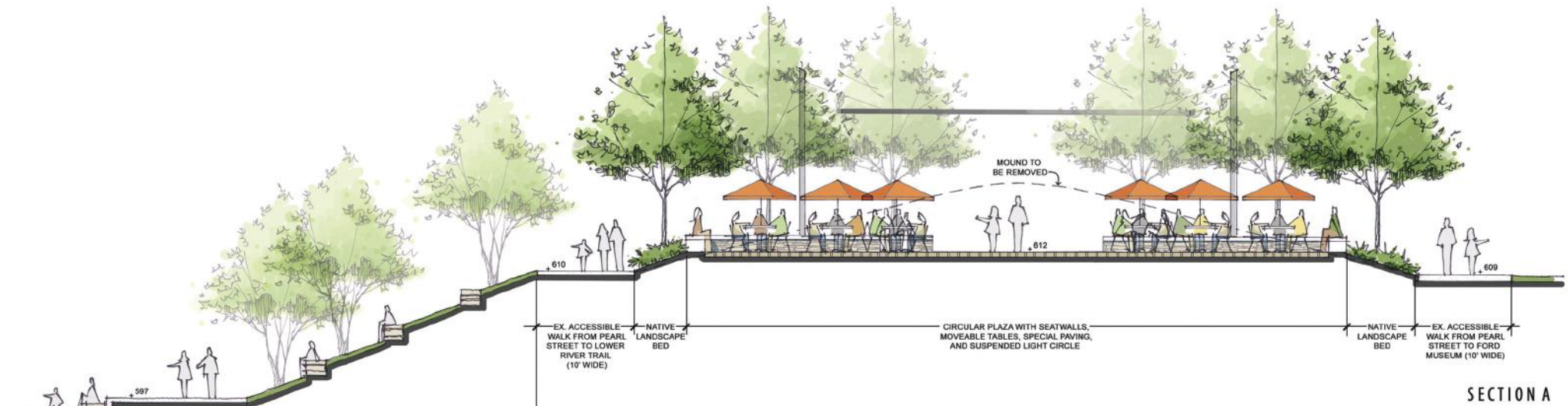


AH-NAB-AWEN PARK

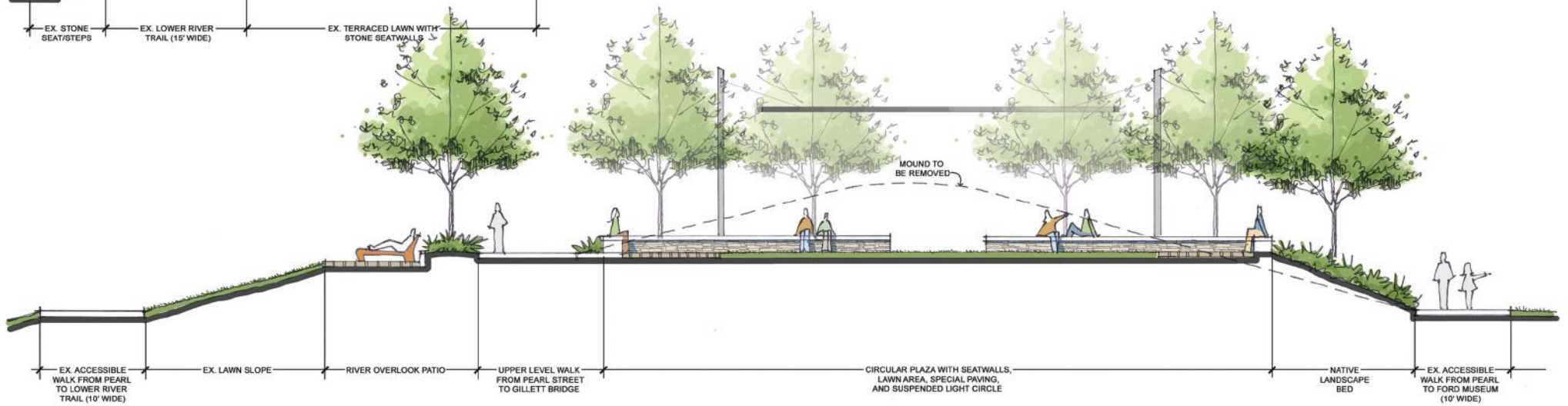
PRIORITY AREA CONCEPT

City of Grand Rapids, Michigan
APRIL 2020





SECTION A



SECTION B

AH-NAB-AWEN PARK

City of Grand Rapids, Michigan
APRIL 2020

PRIORITY AREA CONCEPT



Lyon Square

Project Overview

Lyon Square, located between the Civic Auditorium and the Amway Grand, will be renovated to include an enhanced pedestrian walkway, driveway for access to the DeVos Convention Center below ground parking garage, updated promenade along the river, riverside greenspace, seating areas, and a river overlook.

Project Phase & Timeline

The project design is near completion and will be ready to go to bid and begin in early 2023.

Project Budget

Project Elements	
Trail, Edge & Park Space	\$ 7,900,000
Total	\$ 7,900,000

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward.



'RIVER' CONCEPT

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DOWNTOWN GRAND RAPIDS INC.

LYON SQUARE | GRAND RAPIDS, MI | 12.18.2020 | PROJECT # 75240009

progressive|ae



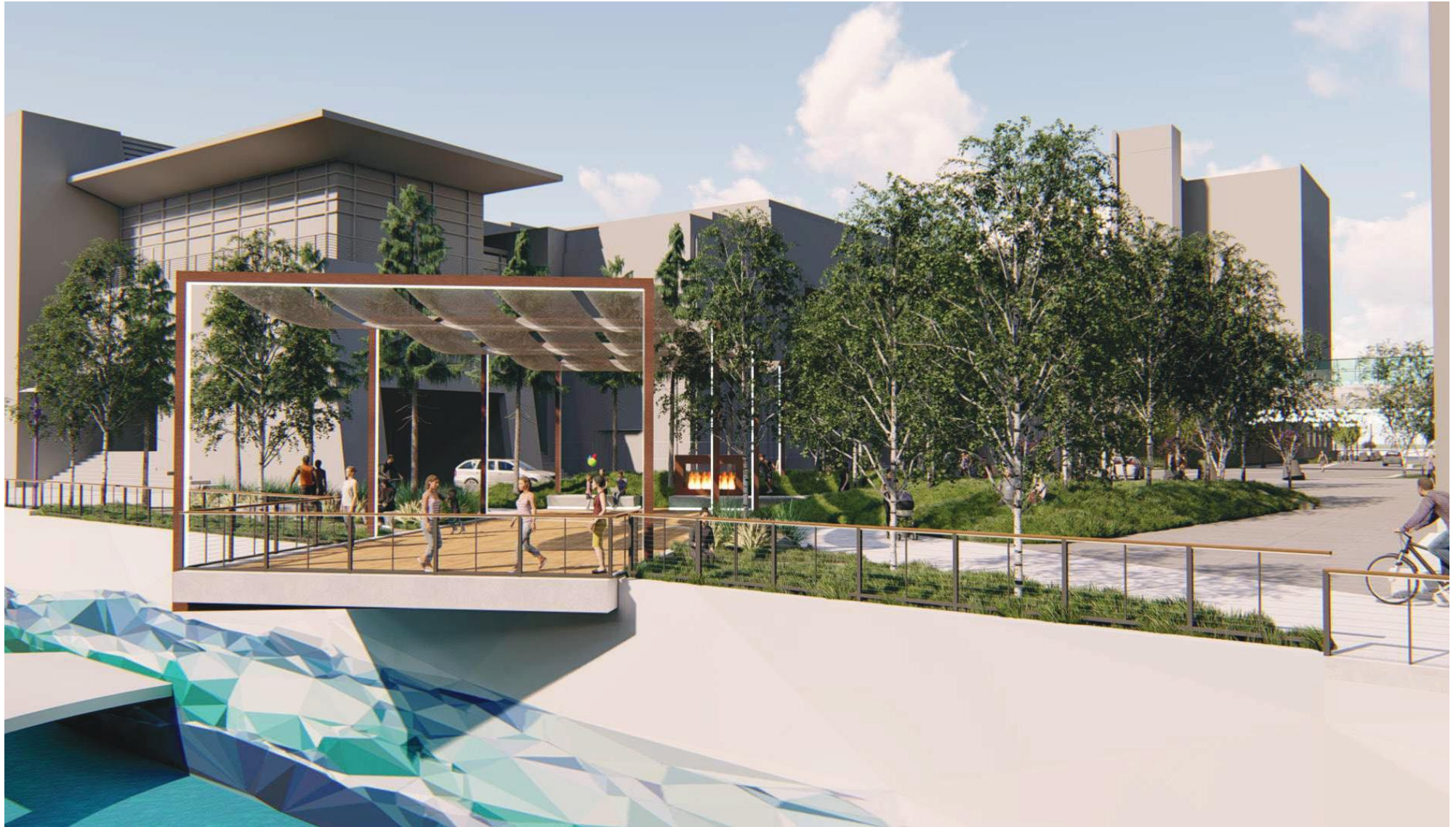
3D VIEW

DOWNTOWN GRAND RAPIDS INC.

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LYON SQUARE | GRAND RAPIDS, MI | 12.18.2020 | PROJECT # 75240009

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SHADE STRUCTURE

Grand Rapids Public Museum

Project Overview

The Grand Rapids Public Museum plans to enhance its outdoor exhibit space to include event space, hands-on science stations, river access, and new educational opportunities along the improved walkways and trails. This infrastructure improvement will provide flood control and serve as a public showcase for innovative design that promotes community resilience to natural changes. It will enhance Grand Rapids' riverfront by providing multiple public gathering areas that are accessible to all and allow for experiential learning opportunities. The structural modifications to the Museum's waterfront will invite the public to experience the Grand River as a living textbook and enhance the public programming that is offered.

Project Phase & Timeline

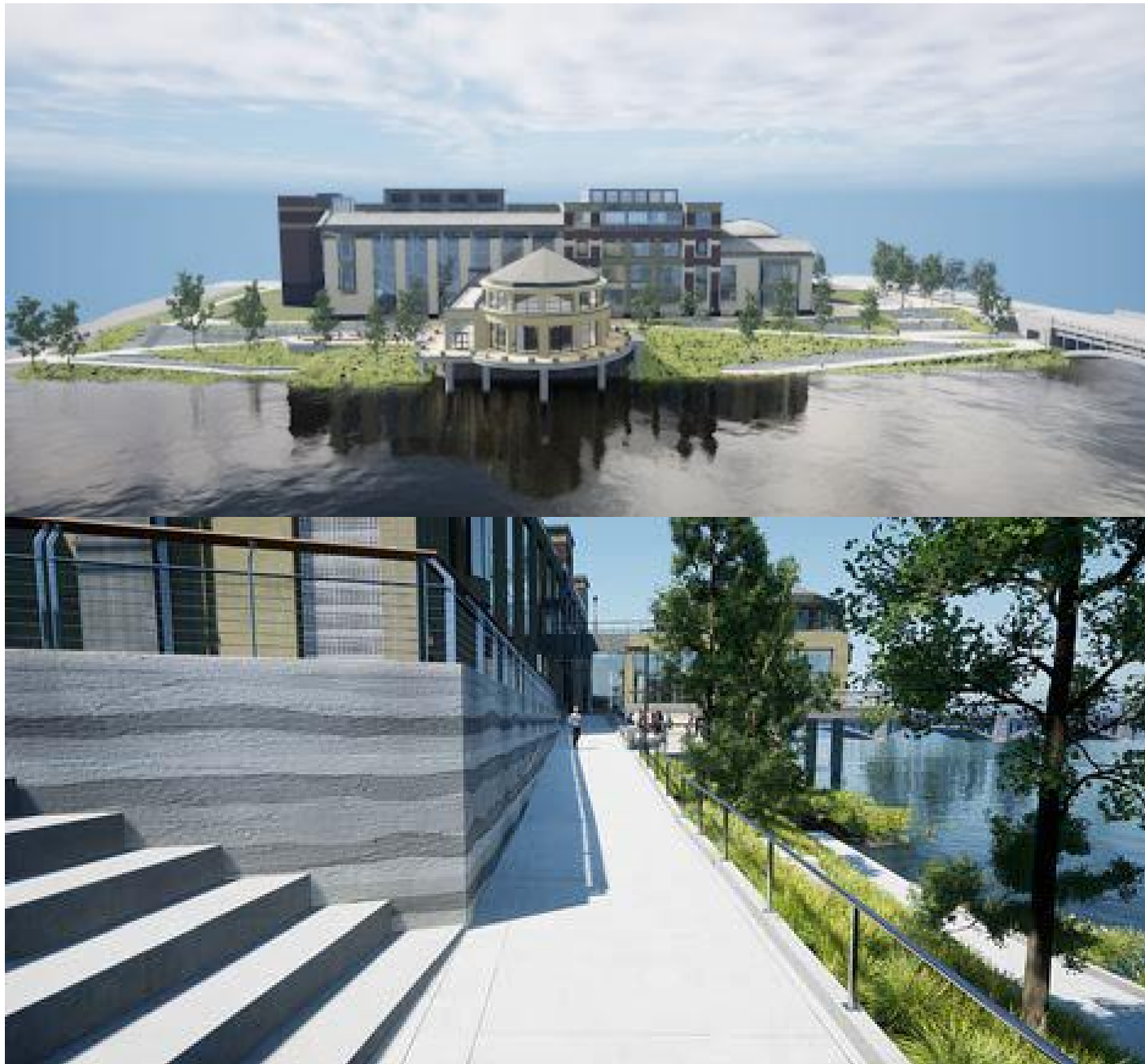
Engineering for the riverfront area is currently being completed. Tower Pinkster has been selected as the design firm and Owen-Ames-Kimball Co. (OAK) has been selected as the general contractor for the project. This project will be ready to go to bid in 2023 if funding is in place.

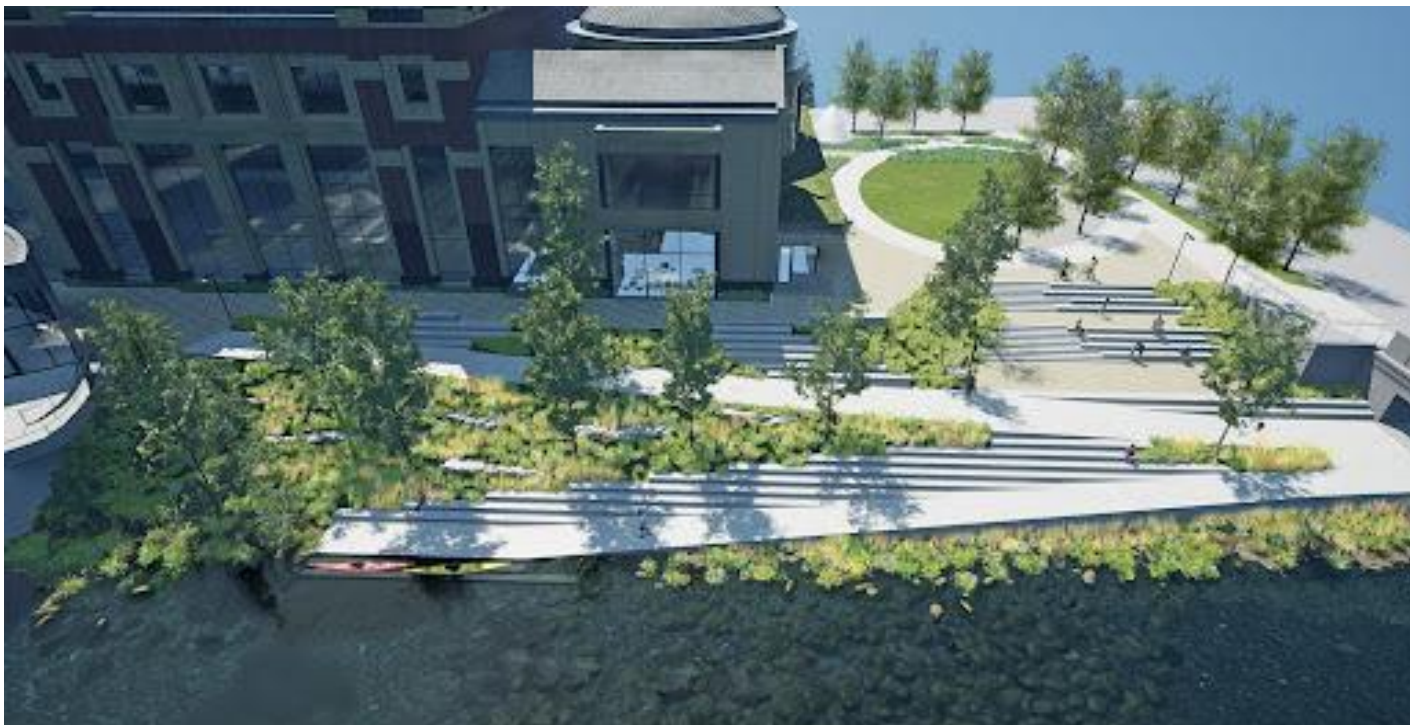
Project Budget

Project Elements	
Trail Infrastructure - north and south	\$ 5,413,356
Carousel Pavilion - outside access around & interior updates	\$ 3,139,732
North Lawn/park	\$ 2,247,446
2nd floor overlook	\$ 564,408
East side park improvements	\$ 408,806
Design costs	\$ 465,000
Total	\$ 12,238,748

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward.





Existing Trail Repair - Louis/JW to Blue Bridge

Project Overview

The existing trail between the JW Marriot and the Blue Bridge will be resurfaced.

Project Phase & Timeline

The project design is near completion and will be ready to go to bid and begin in early 2023.

Project Budget

Project Elements	
Trail/Edge	\$ 850,000
Total	\$ 850,000

This project is fully funded through grant from the Grand Rapids Downtown Development Authority.

Challenges/Barriers to Success

None

Market Avenue Corridor Development Sites

Project Overview

The 201 Market Avenue and 51 Market Avenue sites are slated for redevelopment through public/private partnerships. Along the riverfront, there will be a public ribbon park and trail. The trail will be part of the river edges greenway trail network that eventually will connect all the way to Lowell on the east and Grand Haven on the west. The site will also include a pedestrian bridge over the Grand River. Additional design and planning will be necessary to finalize the project.

Project Phase & Timeline

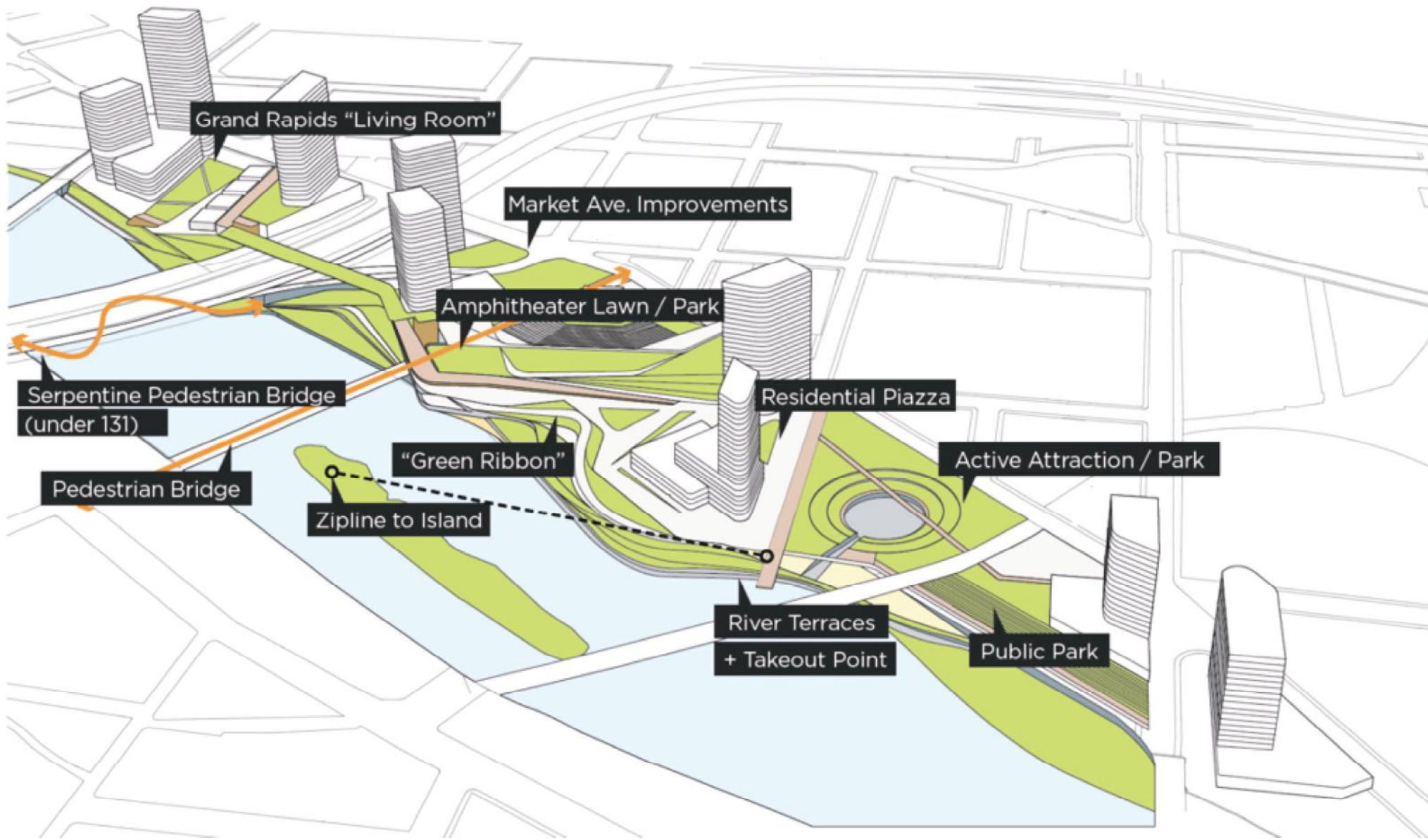
Only a conceptual design has been completed for the site, which allowed the City of Grand Rapids to complete a preliminary cost estimate. More planning is necessary to finalize the project and timeline.

Project Budget

Project Elements	
<i>Fulton/Market Site</i>	
Trail / Edge	\$ 5,000,000
<i>Subtotal</i>	<i>\$ 5,000,000</i>
201 Market Site	
Trail / Edge	\$ 10,000,000
New Park/Greenspace	\$ 15,000,000
Over-river Pedestrian Bridge	TBD
<i>Subtotal</i>	<i>\$ 25,000,000</i>
Total	\$ 30,000,000

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward.



Wealthy Street River Access

Project Overview

The City of Grand Rapids is planning two river access points immediately south of the Wealthy Street Bridge on the west and east of the Grand River. The west side site will have parking, greenspace, an overlook deck, and stair and ramp access to the river edge. The east side site will have greenspace as well as stair and ramp access to the river edge. These sites will serve as a pick-up point for kayaks, canoes, and rafts.

Project Phase & Timeline

The project design has been completed to 30%. A timeline for the project has not been established.

Project Budget

Project Elements	
Trail/Edge	\$ 3,000,000
Total	\$ 3,000,000

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward. The site will also need to be acquired from MobileGR.



River Access Feasibility Study - Wealthy Street West Option

July 2018

VIRIDIS Design Group + FTCH

New Trail Connection - Wealthy St to Oxford Trail

Project Overview

The Wealth Street to Oxford Trail connection is the final trail portion necessary to complete the river edges trail. This quarter mile trail section along the west side of the Grand River will connect to the Wealthy Street bridge.

Project Phase & Timeline

Project design has been completed to 30%. The project timeline has not been established.

Project Budget

Project Elements	
Trail/Edge	\$ 1,000,000
Total	\$ 1,000,000

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward. A land swap will be necessary with Spectrum Industries and the Department of Natural Resources.



STRAIGHT

EMERALD

OLIVE

LEBELLIER

FRONT

HEMLOCK

GOODRICH

CHICAGO

GODFREY

MARKET

GOOD

PLEA

AREA 2

16' WIDE ELEVATED
BOARDWALK
(UNDERPASS)

12' WIDE
LOWER
PATH

10' WIDE CONNECTION
ALONG MARKET

PROTECTED
BIKE LANES

WEALTHY ST. RIVER ACCESS
BOARDWALK/RAMP AND
PARKING AREA

12' WIDE PATH

58

Silver Creek

Project Overview

The Silver Creek watershed is a sub basin of the Plaster Creek Watershed located in southeast Grand Rapids. The creek starts in East Grand Rapids and flows through Grand Rapids' Boston Square, Oakdale, and Madison Square neighborhoods. The creek is entirely buried. There is opportunity to daylight parts of the creek and also create a trail connector to Plaster Creek. Part of Silver Creek will be daylight as part of the AmplifyGR development.

Project Phase & Timeline

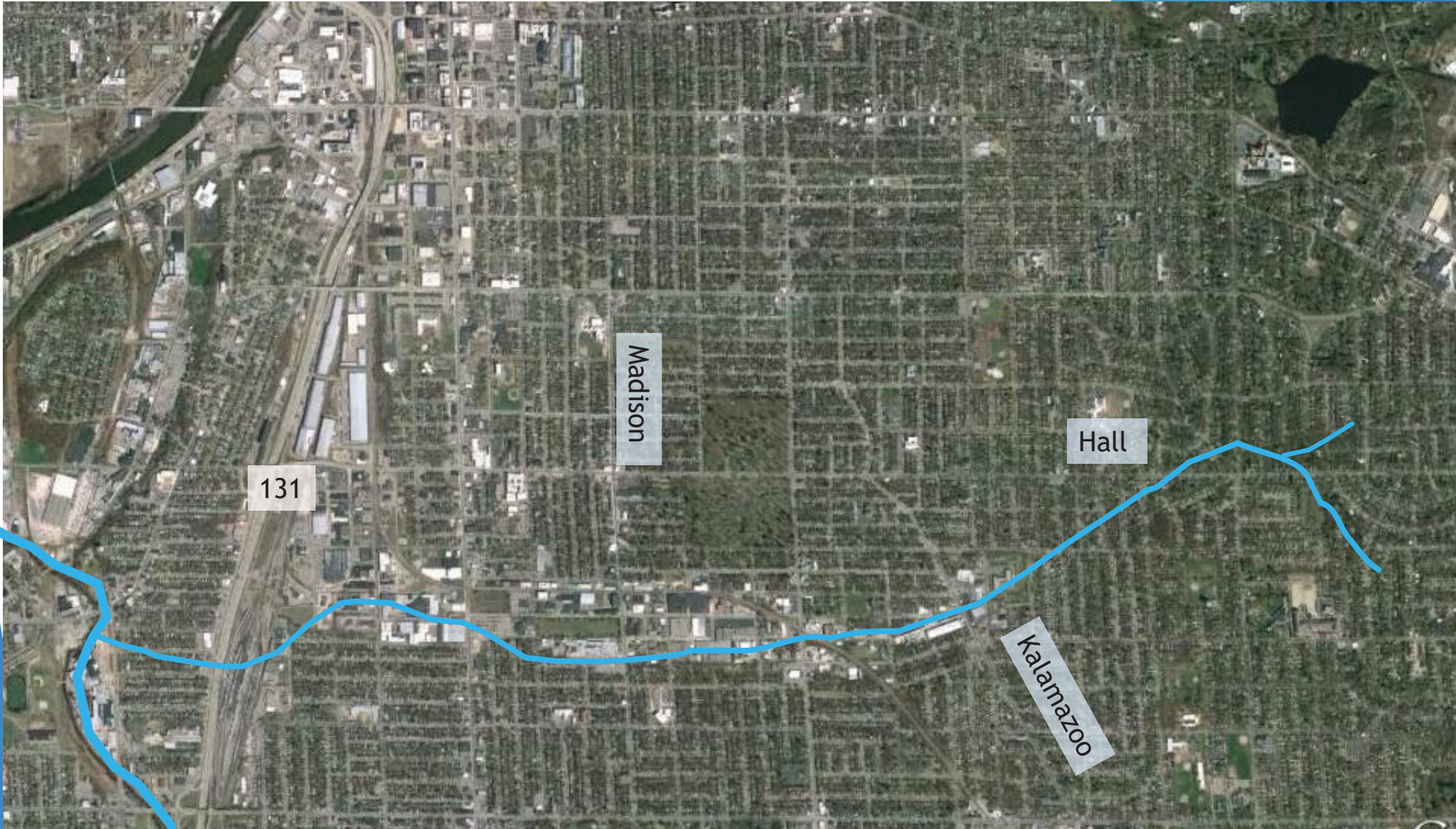
TBD

Project Budget

TBD

Challenges/Barriers to Success

TBD



Plaster Creek

Project Overview

The Plaster Creek Watershed comprised approximately 58 square miles in the Greater Grand Rapids area. The 14-mile creek originates southeast of Grand Rapids and flows through the Southeast Grand Rapids and Roosevelt Park neighborhoods. A non-motorized trail follows the creek as it enters the City of Grand Rapids and currently ends on Division Street at the Salvation Army Kroc Center. There is opportunity to extend the trail to the Grand River in addition to developing further greenspace along the creek.

Project Phase & Timeline

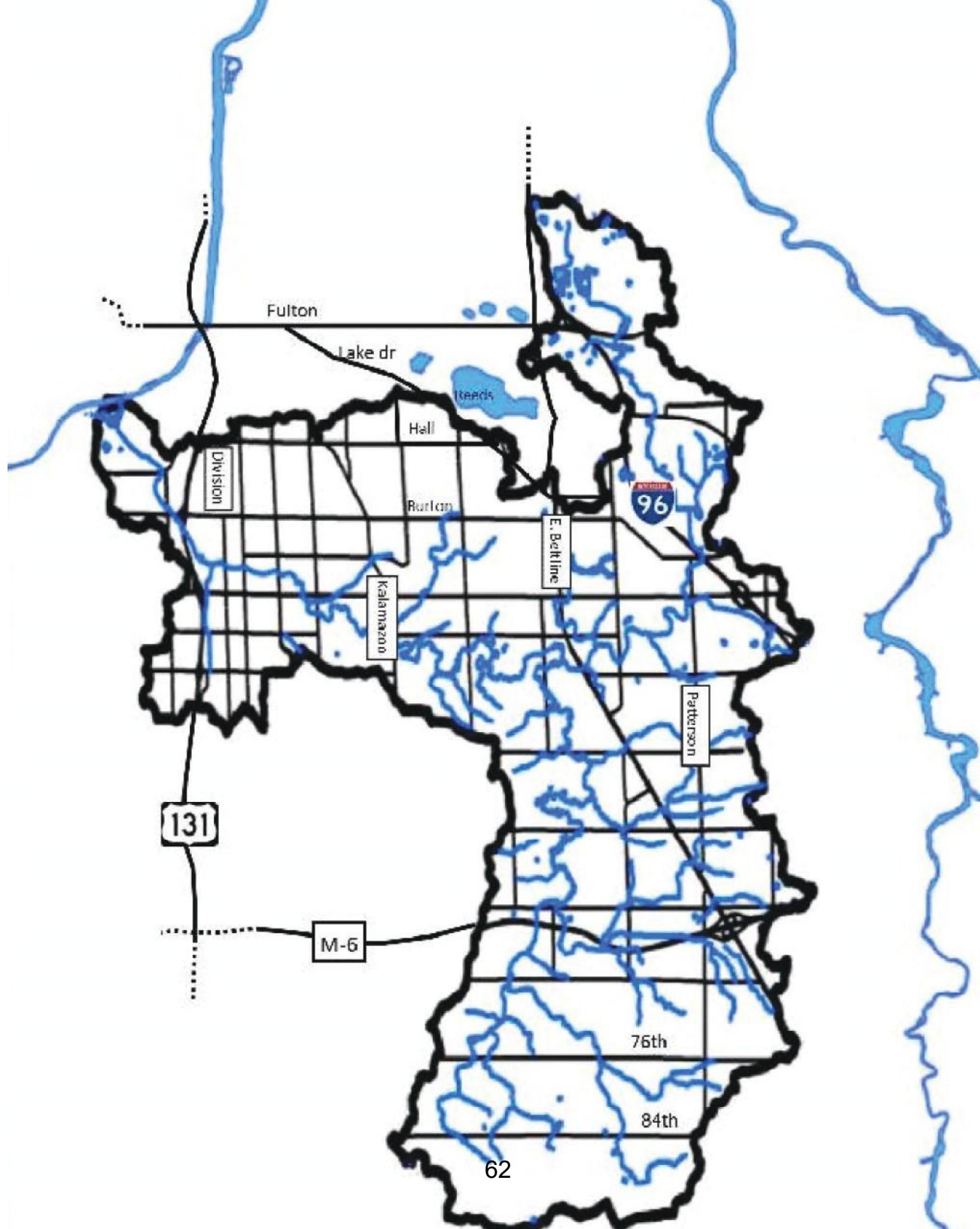
TBD

Project Budget

TBD

Challenges/Barriers to Success

TBD



Butterworth Boat Ramp

Project Overview

At the site of Veterans Memorial Drive off of Butterworth Street, the City of Grand Rapids will develop a new boat launch with parking for trucks and trailers. This site will not only serve as an access point for boaters, but also as another pickup point for kayaks, canoes, and rafts.

Project Phase & Timeline

The project design has been completed to 30%. The timeline for the project has not been finalized.

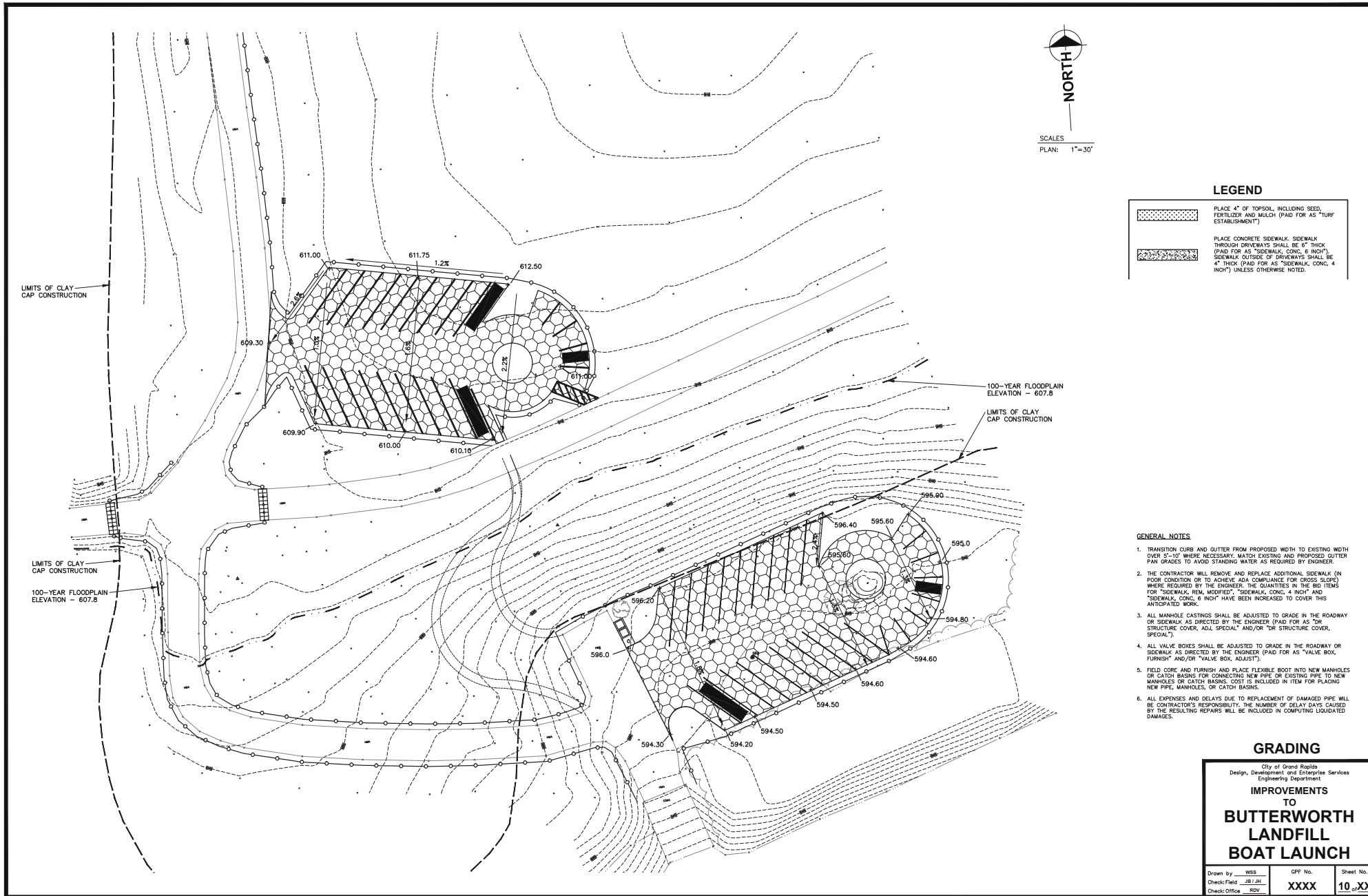
Project Budget

Project Elements	
Road Access, Parking, Launch	\$ 500,000
Total	\$ 500,000

Challenges/Barriers to Success

This project will require EGLE permitting before it can move forward. The site is privately owned and would need to be acquired before the project can begin.





NORTH

SCALES
PLAN: 1"=30'

LEGEND

- PLACE 4" OF TOPSOIL, INCLUDING SEED, FERTILIZER AND MULCH (PAID FOR AS "TURF ESTABLISHMENT")
- PLACE CONCRETE SIDEWALK. SIDEWALK THROUGH DRIVEWAYS SHALL BE 6" THICK (PAID FOR AS "SIDEWALK, CONC. 6 INCH"). SIDEWALK OUTSIDE OF DRIVEWAYS SHALL BE 4" THICK (PAID FOR AS "SIDEWALK, CONC. 4 INCH") UNLESS OTHERWISE NOTED.

GENERAL NOTES

- TRANSITION CURB AND GUTTER FROM PROPOSED WIDTH TO EXISTING WIDTH OVER 2'-10" WHERE NECESSARY. MATCH EXISTING AND PROPOSED GUTTER PAN GRADES TO AVOID STANDING WATER AS REQUIRED BY ENGINEER.
- THE CONTRACTOR WILL REMOVE AND REPLACE ADDITIONAL SIDEWALK (IN POOR CONDITION OR TO ACHIEVE ADA COMPLIANCE FOR CROSS SLOPE) WHERE REQUIRED BY THE ENGINEER. THE QUANTITIES IN THE BID ITEMS FOR "SIDEWALK, REIN. UNPAVED", "SIDEWALK, CONC. 4 INCH" AND "SIDEWALK, CONC. 6 INCH" HAVE BEEN INCREASED TO COVER THIS ANTICIPATED WORK.
- ALL MANHOLE CASTINGS SHALL BE ADJUSTED TO GRADE IN THE ROADWAY OR SIDEWALK AS DIRECTED BY THE ENGINEER (PAID FOR AS "DR STRUCTURE COVER, ADJ. SPECIAL" AND/OR "DR STRUCTURE COVER, SPECIAL").
- ALL VALVE BOXES SHALL BE ADJUSTED TO GRADE IN THE ROADWAY OR SIDEWALK AS DIRECTED BY THE ENGINEER (PAID FOR AS "VALVE BOX, FURNISH" AND/OR "VALVE BOX, ADJUST").
- FIELD CORP. AND FURNISH AND PLACE FLEXIBLE BOOT INTO NEW MANHOLES OR CATCH BASINS FOR CONNECTING NEW PIPE OR EXISTING PIPE TO NEW MANHOLES OR CATCH BASINS. COST IS INCLUDED IN ITEM FOR PLACING NEW PIPE, MANHOLES, OR CATCH BASINS.
- ALL EXPENSES AND DELAYS DUE TO REPLACEMENT OF DAMAGED PIPE WILL BE CONTRACTOR'S RESPONSIBILITY. THE NUMBER OF DELAY DAYS CAUSED BY THE RESULTING REPAIRS WILL BE INCLUDED IN COMPUTING LIQUIDATED DAMAGES.

GRADING

City of Grand Rapids
Design, Development and Enterprise Services
Engineering Department

**IMPROVEMENTS
TO
BUTTERWORTH
LANDFILL
BOAT LAUNCH**

Drawn by WBS	GFF No. XXXX	Sheet No. 10 of XX
Check/Field JBT		
Check/Office BOW		

Johnson Park/Millennium Park Mountain Biking Trails

Project Overview

The Kent County Parks Department, in partnership with the West Michigan Mountain Biking Alliance, is planning to develop 14 miles of mountain bike trails at Johnson and Millennium Park. The Plan includes trails designed for people of all abilities, including an adaptive mountain biking trail specifically designed for users with limited mobility. The development will also include a restroom and parking at Johnson Park as well as a community pavilion and play equipment. This project would serve the thriving and growing mountain biking user group in the region, as well as draw more tourism to the area. Finally, the location of Johnson Park along the Kent Trails will provide connectivity to Millennium Park and the river edges trail.

Project Phase & Timeline

A conceptual design has been completed. The project timeline is dependent on funding availability. The project could be completed within two years after funding has been secured.

Project Budget

Project Elements	
Restroom	\$ 444,000
Johnson Park Mountain Biking Trails (7 Miles)	\$ 370,000
Millennium Park Mountain Biking Trails (7 Miles)	\$ 370,000
Parking Lot/Trailhead	\$ 296,925
Play Equipment with Safety Surfacing	\$ 240,000
Pavilion	\$ 180,000
Paved Pathway Improvements	\$ 91,212
Landscaping	\$ 54,000
Site Signage	\$ 3,600
Total	\$ 2,049,737

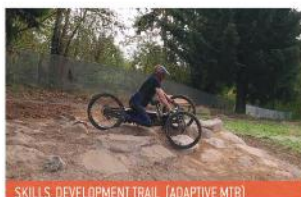
Challenges/Barriers to Success

None.

JOHNSON PARK TRAILS CONCEPT PLAN

GRAND RAPIDS, MICHIGAN

TRAIL and BIKE FACILITIES



TRAIL DATA

SEGMENT	TYPE	DIFFICULTY	USER	ADA MTB	DIRECTION	LENGTH (MI)
PHASE 1						
101	BIKE-OPTIMIZED	GREEN	SHARED-USE	YES	BIDIRECTIONAL	0.18
102	BIKE-OPTIMIZED	GREEN	SHARED-USE	YES	BIDIRECTIONAL	1.08
103	BIKE-OPTIMIZED	BLUE	SHARED-USE	YES	BIDIRECTIONAL	0.88
104	BIKE-OPTIMIZED	BLUE	SHARED-USE	YES	BIDIRECTIONAL	2.15
105	BIKE-OPTIMIZED	BLUE	SHARED-USE	YES	BIDIRECTIONAL	0.26
PHASE 1 TOTAL						4.55 MI
PHASE 2						
201	SKILLS	GREEN	BIKE	YES	BIDIRECTIONAL	0.19
202	SKILLS	GREEN / BLUE	BIKE	YES	BIDIRECTIONAL	0.16
203	SKILLS	BLUE / BLACK	BIKE	YES	BIDIRECTIONAL	0.22
204	SKILLS	GREEN / BLUE	BIKE	YES	BIDIRECTIONAL	0.58
PHASE 2 TOTAL*						1.15 MI
CONCEPTUAL TRAILS						5.70 MI

*Note: Phase 2 includes the pump track and bicycle playground.



Grand River Burial Mounds Stewardship

Project Overview

The 55-acre site burial mound site is one of only a few surviving Hopewellian mound groups (consisting of 17 original mounds) that were once present in the lower Grand River watershed and the only remaining example in which the mounds themselves are still intact. All other examples known to have existed in the region have been destroyed by development. Constructed during the Middle Woodland period approximately 2,000 years ago, the burial mounds have endured multiple owners, vandalism, and attempts to transform the site into a tourist attraction. The historical significance of the burial mounds was formally recognized in 1957, when it was listed on the Michigan State Register of Historic Sites. In 1966, the site was listed on the National Register of Historic Places. Of all the prehistoric National Historic Landmark archaeological sites across the country, there are only four other Hopewellian sites that have National Historic Landmark status. Finally, the site was recognized in 1973 as a historic district by the Grand Rapids City Commission.

When European settlers appeared in the region in the early 19th century, there was a lot of curiosity about the mounds and their origins. Anishinaabe people consider the mounds to have great cultural significance as a sacred burial site of early indigenous peoples. There are even early 19th century accounts of tribes burying their members around and within the mounds. The Anishinabek people told a legend of their creator, Nan-i-bou-jo, who taught their people to build the mounds for the specific use of burial. The Mounds were periodically excavated by amateur and professional archaeologists, most recently in the 1960s. Objects from the Mounds were held in the Grand Rapids Public Museum's Collections for decades but were repatriated to a coalition of Michigan tribes in 2009. The Public Museum and its City and Tribal partners have collaborated to preserve the mounds and are currently in conversation to determine how best to interpret this nationally significant site in a respectful way.

Project Phase & Timeline

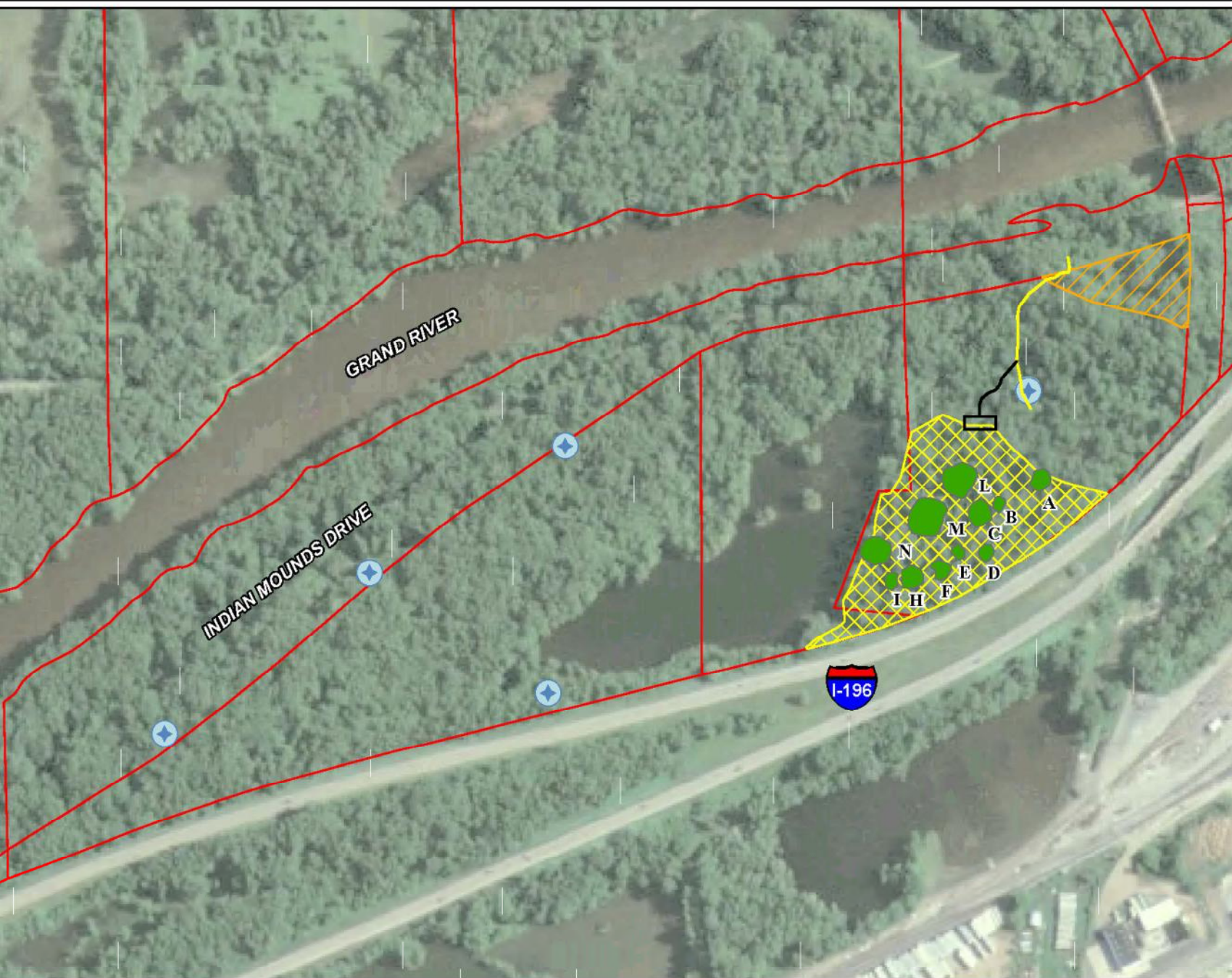
TBD

Project Budget

TBD

Challenges/Barriers to Success

TBD



Legend:

-  Oil Well Location
-  Existing Oil Well Access Road
-  Proposed Trail & Viewing Platform
-  Parcel Boundaries
-  Burial Mounds
- Invasive Tree/Shrub Populations**
 -  *Ailanthus altissima* (Tree-of-Heaven)
 -  *Elaeagnus umbellata* (Autumn Olive)
 -  *Lonicera* spp. (Bush Honeysuckle)
 -  *Robinia pseudoacacia* (Black Locust)
 -  *Ailanthus altissima* (Tree-of-Heaven)
 -  *Lonicera* spp. (Bush Honeysuckle)
 -  *Rhamnus cathartica* (Common Rhamnus)

This map document is advisory and intended for reference purposes only.