

4.3 Project Description

A: SPECIFIC LOCATION (Supply a written location description that includes the project termini; a map does not replace this requirement.) 2000 character limit.

The Findlay Street MRL-08 Outfall discharges to the Mad River, east of downtown Dayton, Ohio. The outfall is north of Monument Avenue, and 100 feet west of N. Findlay Street. (See Figure 1)

The project will take place at the existing structure. (See Figure 2)

B: IDENTIFY THE PROBLEM (Describe the issue to be addressed) 2000 character limit.

The project will rehabilitate the existing Findlay Street MRL-08 Outfall. It will include a new foundation where necessary, a new base slab, retrofit of the wing walls and retaining walls, and extension of wing walls toward the Mad River. Demolition of some existing items will also be part of the project.

C: PROJECT SCOPE (Describe the work to be completed) 2000 character limit.

The existing outfall includes 200 feet of headwalls and wing walls from 5 to 8 feet tall, 68 lineal feet of concrete revetment, and a 2800 square foot concrete channel, that has mostly eroded and washed away. The existing 84 inch storm pipe will be replaced only as needed to make repairs to the headwalls. The existing headwalls and wing walls, revetment, concrete channel and foundations will be repaired or replaced as needed.

The area drained by this outfall is 278 acres (see Figure 3).

5.0 Project Officials

Changes in Project Officials must be submitted in writing from an officer of record.

5.1 Chief Executive Officer (Person authorized in legislation to sign project agreements)

Name: Shelley Dickstein
Title: City Manager
Address: 101 West Third Street P.O. Box 22

City: Dayton State: OH Zip: 45402
Phone: 937-333-3600
FAX:
E-Mail: shelley.dickstein@daytonohio.gov

5.2 Chief Financial Officer (Can not also serve as CEO)

Name: Robbi Stivers
Title: Director of Finance
Address: 10 West Third Street

City: Dayton State: OH Zip: 45402
Phone: 937-333-3576
FAX: 9373332222
E-Mail: robbi.stivers@daytonohio.gov

5.3 Project Manager

Name: Nick Dailey
Title: Chief Engineer
Address: 320 W. Monument Avenue

City: Dayton State: OH Zip: 45402
Phone: (937) 333-1839
FAX:
E-Mail: nick.dailey@daytonohio.gov

6.0 Attachments / Completeness review

Confirm in the boxes below that each item listed is attached (Check each box)

- x A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.

 - x A certification signed by the applicant's chief financial officer stating the amount of all local share funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.

 - x A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's seal or stamp and signature.
- A cooperative agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.
- Farmland Preservation Review - The Governor's Executive Order 98-IV, "Ohio Farmland Protection Policy" requires the Commission to establish guidelines on how it will take protection of productive agricultural and grazing land into account in its funding decision making process. Please include a Farm Land Preservation statement for projects that have an impact on farmland.
- Capital Improvements Report. CIR Required by O.R.C. Chapter 164.06 on standard form.
- x Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your local District Public Works Integrating Committee.

7.0 Applicant Certification

The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.

Certifying Representative (Printed form, Type or Print Name and Title)

Original Signature / Date Signed

CERTIFICATE OF CLERK OF THE COMMISSION

STATE OF OHIO,
COUNTY OF MONTGOMERY, SS:
CITY OF DAYTON.

The undersigned, Clerk of the Commission of said City, hereby certifies that the foregoing
is a true and correct copy of Resolution 6659-22
passed by the Commission of said City August 17, 2022.

In Testimony Whereof, witness my hand and official seal, this 29th
day of August, 2022.

Regina D Blackshear
Clerk of the Commission of the City of Dayton, Ohio

BY..... **Mr. Joseph** NO..... **6659-22**

A RESOLUTION

Approving the Submission of Grant Applications to the District 4 (Montgomery County, Ohio) Public Works Commission Integrating Committee; Authorizing the Acceptance of Grant Awards from the State of Ohio Public Works Commission for the State Issue 1 Program for Public Capital Infrastructure Improvements in an Amount Not to Exceed Three Million Eight Hundred Twenty Thousand Three Hundred Ninety Dollars and Zero Cents (\$3,820,390.00) on Behalf of the City of Dayton.

WHEREAS, The voters of Ohio Passed Issue 1 authorizing the State of Ohio to issue bonds for the purpose of financing or assisting local governments in financing Public Infrastructure Capital Improvements; and

WHEREAS, The General Assembly passed Amended Substitute House Bill 381 in June of 1989, which among other sections amended Section 164.05 and added Section 164.14 to the Ohio Revised Code, thereby creating a Local Transportation Improvement Fund to be administered through the District Public Works Integrating Committees in a manner similar to the Issue 1 Program, expenditures from said fund being limited to roads, bridges, and other public infrastructure improvements; and

WHEREAS, The City of Dayton has been notified that Twelve Million Seven Hundred Ninety-One Thousand Dollars and Zero Cents (\$12,791,000.00) will be available to the jurisdictions within the area covered by the District 4 Public Works Integrating Committee in total for the fiscal year 2024; and

WHEREAS, The City's request is based upon an analysis of unmet infrastructure needs and contingent upon an approved grant application submitted to the District 4 Public Works Integrating Committee; and

WHEREAS, Participation in these programs requires the availability of matching funds as spelled out in the application to abide by all procedures as noted in the Standing Rules with matching funds of proposed projects not to exceed Seven Million Six Hundred Seventy-Nine Thousand Six Hundred Ten Dollars and Zero Cents (\$7,679,610.00) in order to secure Three Million Eight Hundred Twenty Thousand Three Hundred Ninety Dollars and Zero Cents (\$3,820,390.00) grant funding to cover fiscal year 2024; and

WHEREAS, The City of Dayton is located within the area covered by the District 4 Public Works Integrating Committee and is entitled to apply singly or jointly for these funds for necessary infrastructure improvements; and

WHEREAS, Section 36.10 of the Revised Code of General Ordinances of the City of Dayton authorizes the City Manager to submit grant applications on behalf of the City of Dayton; now therefore,

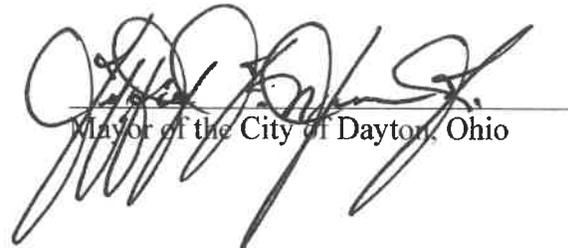
BE IT RESOLVED BY THE COMMISSION OF THE CITY OF DAYTON:

SECTION 1. That this Commission approves the City Manager's submission of a grant application and supporting documents to the District 4 Public Works Integrating Committee for participation in the State Issue 1 Program for eligible Public Infrastructure Capital Improvements defined as the acquisition, construction, reconstruction, improvement, planning and equipping of roads and bridges, wastewater treatment systems, water supply systems, solid waste disposal facilities, flood control systems, and storm water and sanitary collection, storage, and treatment facilities, including real property, interests in real property, facilities, and equipment related or incidental to those facilities.

SECTION 2. That the City Manager is authorized to execute any and all documents and agreements on behalf of the City of Dayton, which are necessary to accept grant awards in an amount not to exceed Three Million Eight Hundred Twenty Thousand Three Hundred Ninety Dollars and Zero Cents (\$3,820,390.00) from the State of Ohio Public Works Commission under the State Issue 1 Program for eligible Public Infrastructure Capital Improvements.

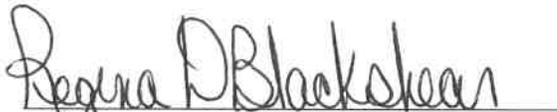
ADOPTED BY THE COMMISSION.. August..17...2022

SIGNED BY THE MAYOR. August..17.....2022



Mayor of the City of Dayton, Ohio

ATTEST:



Clerk of the Commission

APPROVED AS TO FORM:



City Attorney

CERTIFICATION OF LOCAL FUNDS

August 24, 2022

I, Director of Finance of the City of Dayton, hereby certify that the City of Dayton will have the amount of \$270,000.00 in the Findlay Street MRL-08 Outfall Improvements account and that this amount will be used to pay the local share for the Findlay Street MRL-08 Outfall Improvements project when it is required.



Robbi Stivers, Director of Finance

8/25/22

Findlay Street MRL-08 Outfall Improvements

ESTIMATE OF COST

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
201	Clearing and Grubbing	1	LUMP	\$ 3,225.00	\$ 3,225.00
202	Pipe Removed, 84", Concrete	10	L.F.	\$ 250.00	\$ 2,500.00
202	Removal of Structure (Headwall)	1	LUMP	\$ 40,000.00	\$ 40,000.00
202	Structure Removed (Concrete Foundation)	50	C.Y.	\$ 180.00	\$ 9,000.00
203	Excavation Not Including Embankment Construction	600	C.Y.	\$ 50.00	\$ 30,000.00
207	Temporary Soil Erosion and Sediment Control	1	LUMP	\$ 5,000.00	\$ 5,000.00
304	Aggregate Base	10	C.Y.	\$ 130.00	\$ 1,300.00
305	Concrete Base (ODOT 499, Class FS)	155	S.Y.	\$ 95.00	\$ 14,725.00
441	Asphalt Concrete	10	TONS	\$ 150.00	\$ 1,500.00
601	Rock Channel Protection, Type A with Filter	10	C.Y.	\$ 150.00	\$ 1,500.00
614	Maintaining Traffic	1	LUMP	\$ 10,000.00	\$ 10,000.00
615	Low Strength Mortar Backfill, Type 1	40	C.Y.	\$ 160.00	\$ 6,400.00
623	Construction Layout Stakes	1	LUMP	\$ 10,000.00	\$ 10,000.00
653	Topsoil Furnished and Placed, 4"	60	C.Y.	\$ 100.00	\$ 6,000.00
659	Seeding and Mulching (Hydro-Seed)	550	S.Y.	\$ 10.00	\$ 5,500.00
810	MCD Construction Permit	1	EA.	\$ 500.00	\$ 500.00
810	Excavation and Backfill for 84" Storm Pipe with Structural Backfill	10	L.F.	\$ 350.00	\$ 3,500.00
821	Reinforced Concrete Pipe 84" (Storm)	10	L.F.	\$ 1,000.00	\$ 10,000.00
832	Headwall & Wingwall Replacement	1	LUMP	\$ 150,000.00	\$ 150,000.00
SP-1	Bypass Pumping	1	LUMP	\$ 40,000.00	\$ 40,000.00
SP-2	Misc. Concrete Repair, MRL-08	1	LUMP	\$ 60,000.00	\$ 60,000.00
SP-3	Slope Revetment	43	S.Y.	\$ 450.00	\$ 19,350.00
	Subtotal				\$ 430,000.00
ALT	Contingency Allowance (10%)	1	LUMP	\$ 40,000.00	\$ 40,000.00
TOTAL					\$ 470,000.00


8/19/2022

 Signature



Findlay Street MRL-08 Outfall Improvements Application

This spreadsheet has formulas to make a weighted useful life calculation and is populated with an example for illustrative purposes. Items can be added to column a.

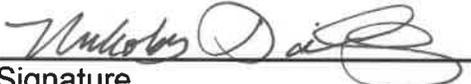
Weighted Useful Life & Design Service Capacity Calculations

Major Component	Cost (\$1,000)	Portion Repair / Replacement (%)	Repair / Replace Product	Useful Life (Years)	Useful Life Product
Full-depth road construction w/ drainage				25	
Full-depth road construction w/o drainage				25	
Partial-depth road construction w/ drainage				15	
Partial-depth road construction w/o drainage				15	
Storm Sewers	470	100	47000	40	18800
Sanitary Sewers				40	
Water Lines				40	
Bridge				75	
Pumps, Lift Stations				15	
Sidewalks				25	
Bike Facility				7	
Totals	470		47000		18800

Weighted Useful Life: 40.0 Years

Design Service Capacity (Project Application, Section 2.0):

Portion Repair / Replace 100 %
 Portion New / Expansion %


 Signature



OHIO PUBLIC WORKS COMMISSION

DISTRICT 4

Round 2022-2023 Supplemental Questionnaire

Applicant: City of Dayton

Project Title: Findlay Street MRL-08 Outfall Improvements

Application Summary:

Briefly describe the project:

The project is needed to replace a critical storm system failure. The existing outfall consists of an 84 inch concrete storm pipe discharging to the Mad River, 100 feet to the west of N. Findlay Avenue. The concrete headwalls are spalling and cracking, and much of the concrete channel has broken off and washed away. The proposed project will rehabilitate the failing headwalls, channel and revetment.

Priority:

Is this application your priority project? (Circle One)	
Yes <input type="radio"/>	No <input checked="" type="radio"/>

Generation of Revenue:

Will new user fees or assessments be assessed as part of this project? (Circle One)	
Yes <input type="radio"/>	No <input checked="" type="radio"/>
What will the new user fees or assessments be used for?	
N/A	

Additional Funding:

Will OPWC match, in part, a committed grant or loan? (Circle One)	
Yes <input type="radio"/>	No <input checked="" type="radio"/>
If no, was the project submitted to an appropriate agency for funding, but denied due to lack of funding? (Circle One)	
Yes – Appropriate Documentation Attached <input type="radio"/>	No <input checked="" type="radio"/>

Readiness of Project:

Will this project be <u>substantially</u> underway on or before June 1, 2024? (Circle One)	
Yes <input checked="" type="radio"/>	No <input type="radio"/>

Health & Safety:

Describe the specific health or safety issue being addressed by this project. What deficiency or condition is causing the health or safety issue?
<p>The concrete portion of the outlet channel has eroded, leaving only rebar visible. This structural failure is allowing water to wash out soil from underneath the headwalls, and causing the existing ground behind the headwall to sink, and escape under the headwall and into the channel. This creates a significant drop between the top of the headwall and the ground (see attached photos).</p> <p>The Mad River Bike Trail passes within 10 feet of the outlet of the pipe. Citizens using the trail originally made the city aware of the sinking ground. The sinking ground undermines the strength of the headwall and could be a fall hazard, or result in damage to the bike trail.</p>

Addresses District Infrastructure Needs:

Is this project located in more than one community? (Circle One)		
Yes <input type="radio"/>		No <input checked="" type="radio"/>
What percentage of the community will be served by this project? (Circle One)		
Less than 25% <input checked="" type="radio"/>	25% to 40% <input type="radio"/>	More than 40% <input type="radio"/>

Economic Development

How many jobs are being created as a result of this project?	0
How many jobs will be retained as a result of this project?	0
Why is it necessary to fund this improvement to secure this development?	
N/A	
What type of industry is proposed in this development?	
N/A	

Relieve Existing Traffic Congestion:

What is the level of service?	N/A
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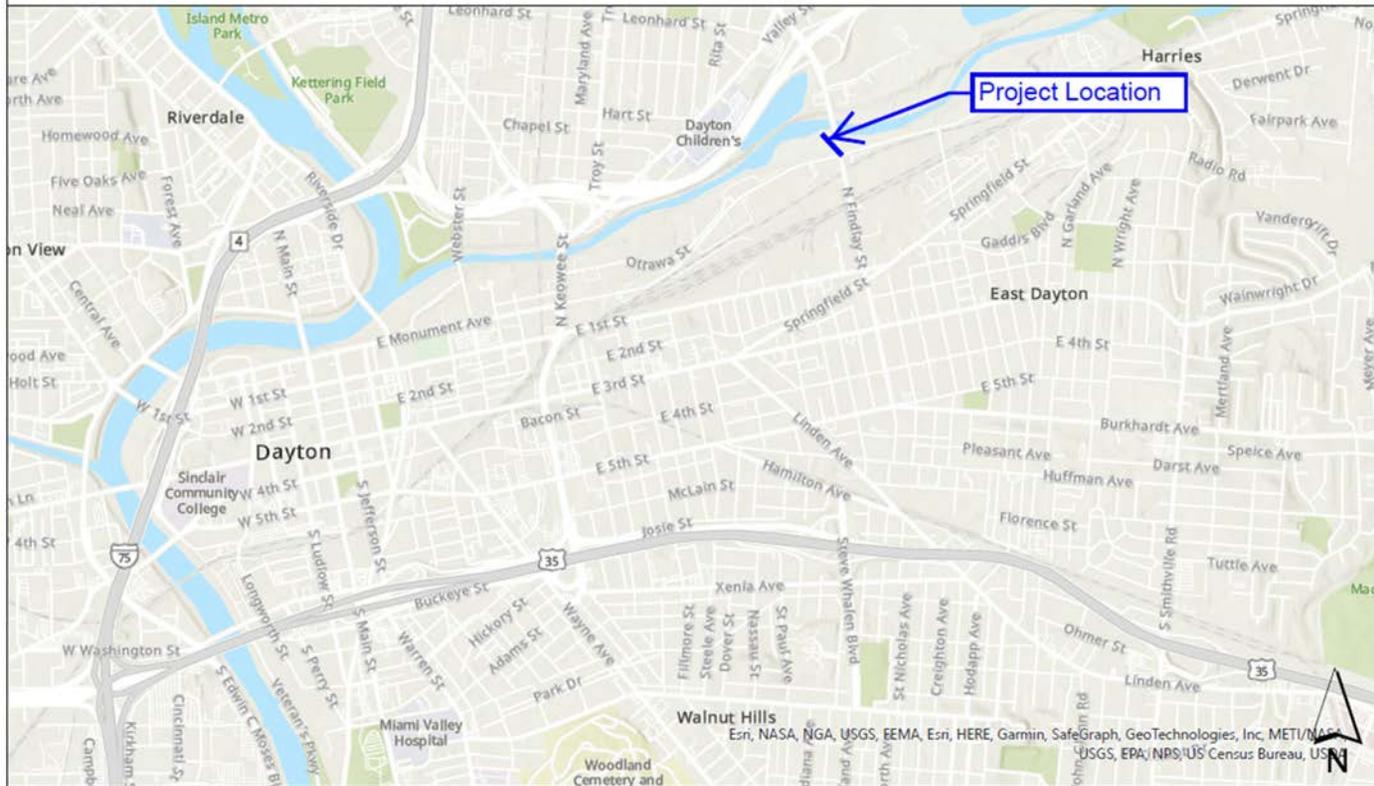
Other Factors

What other factors exist that make this project more important than other like projects?

The City of Dayton has very limited funds for storm water improvements. This is a critically needed rehabilitation project, that needs to be constructed as soon as possible. There are safety concerns due to the sinking of the ground behind the headwalls, as well as structural concerns.

Cracking and spalling of the concrete headwall indicates a need for replacement. Proximity to the Mad River Bike trail is a safety concern. Collapse of the structure could also mean collapse of a portion of the bike trail.

Findlay Street Outfall MRL-08 Improvements Location Map



0 0.33 0.65 1.3 1.95 2.6 mi

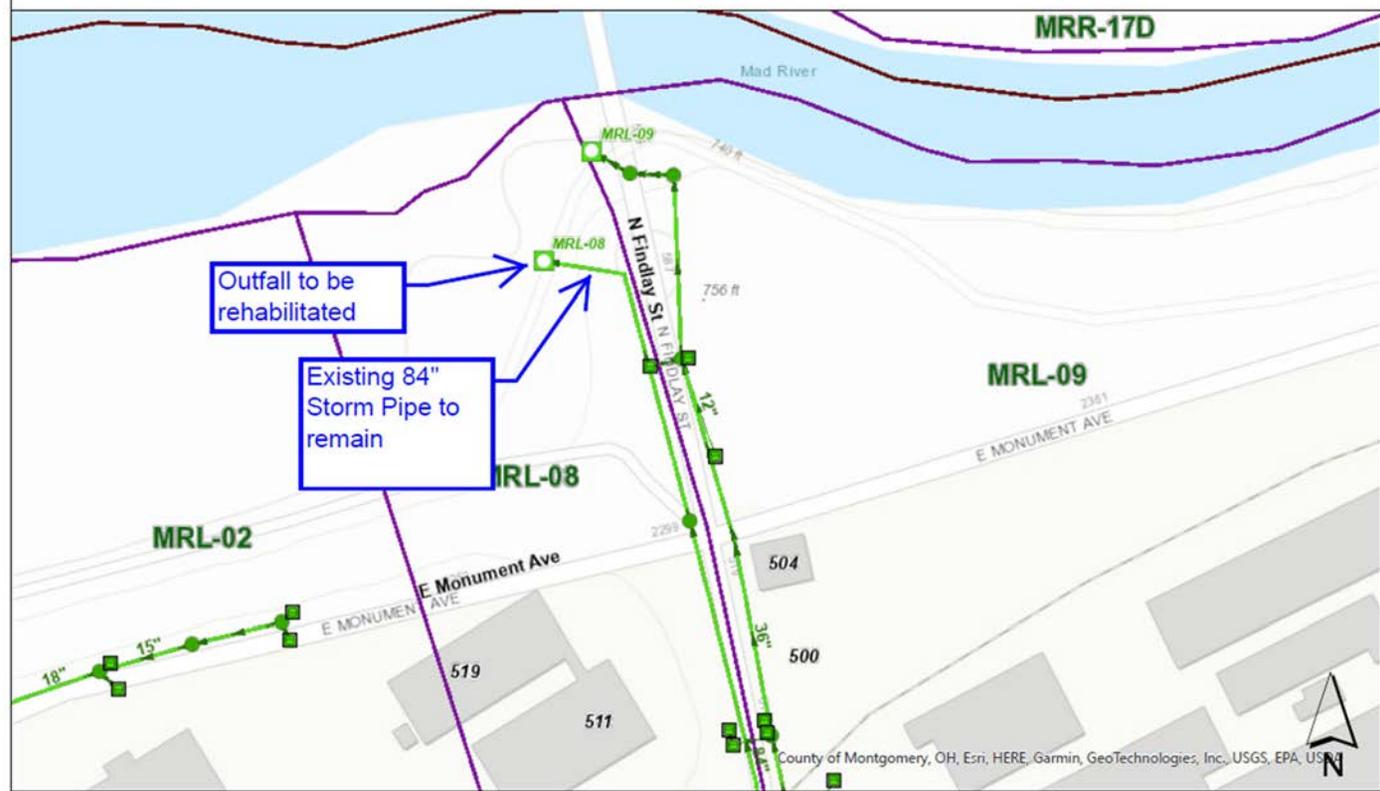
Date Created: 6/14/2022
Created By: watergis



Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for zoning verification.

Figure 1- Findlay Street Outfall MRL-08 Improvements Location Map

Findlay Street MRL-08 Outfall Improvements Project Limits



0 0.02 0.04 0.08 0.12 0.16 mi

Date Created: 5/17/2022
Created By: watrgis



Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for zoning verification.

Figure 2 - Findlay Street MRL-08 Outfall Improvements
Project Limits

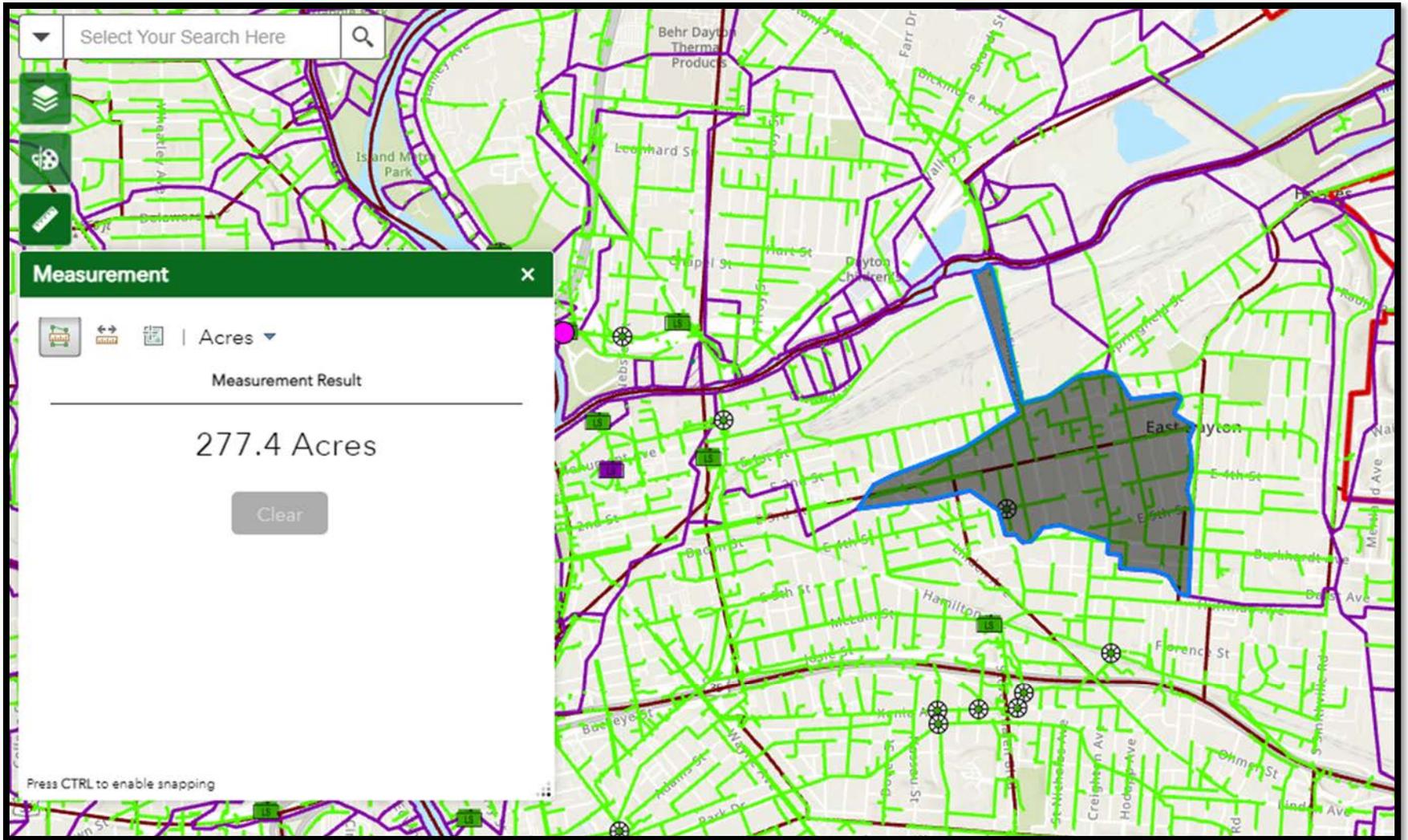


Figure 3 - Findlay Street MRL-08 Outfall Improvements
Drainage Area



Figure 4 - Existing Outfall Dimensions



Figure 5

Taken Oct 1, 2021. The concrete channel has washed away allowing water to undermine the headwall



Figure 6

Taken Oct 1, 2021. Water is eroding soil under the headwall, creating a sinkhole condition on the back side of the headwall.



Figure 7

Taken May 2022. Maintenance crews have filled in the area behind the headwall, however erosion is still occurring



Figure 8
Taken May 2022. More erosion.



Figure 9 – Taken May 2022.