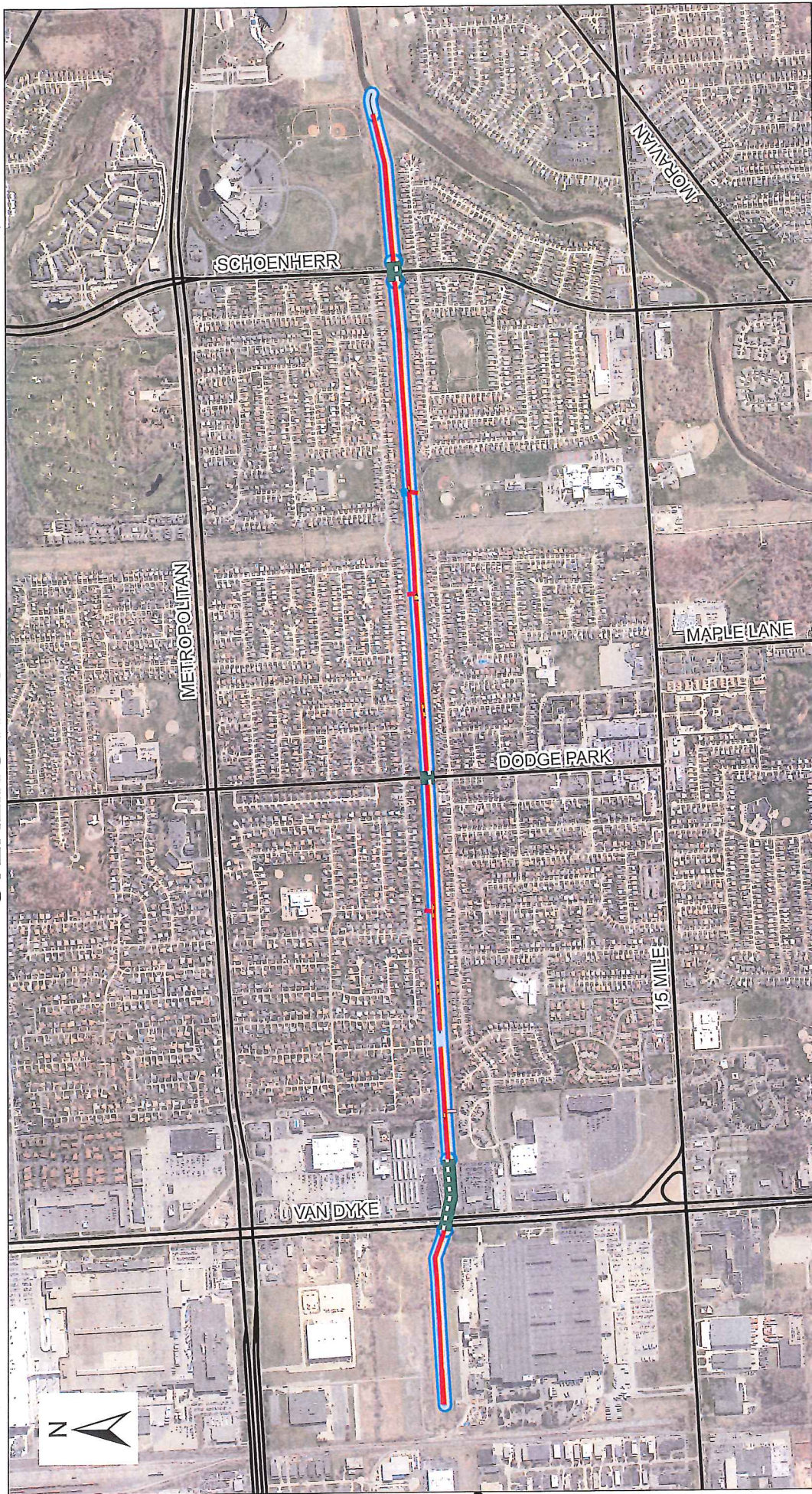


STERLING RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
MARCH 9, 2020
10:15 A.M.
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for March 9, 2020	
3. Approval of Minutes for January 13, 2020	3
4. Public Participation	
5. Project Update – Stephen Downing	
6. Letter of Support – Sterling Relief/Red Run Drain Confluence Habitat Restoration and Regional Trail Connector Grant – Danielle Devlin	5
7. Consideration for approval of invoices (see attached)	19
8. Financial Report – Bruce Manning	20
9. Adjourn	

STERLING RELIEF

STERLING HEIGHTS



Legend

- | | |
|--|---|
| Enclosed Gravity | Open Channel |
| — < 60" Dia | — Ditch |
| — >= 60" Dia | — Pond |
| — Multiple Pipes | — Lateral Connection |
| — Lateral Connection | — Culvert |



Drain Length (Feet/Miles):
15,747.52 / 2.98



An adjourned meeting of the Intra-County Drainage Board for the **STERLING RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on January 13, 2020, at 10:23 A.M.

PRESENT: Candice S. Miller, Chair
Bryan Santo, Member

ABSENT: Joseph Romano, Member

ALSO PRESENT: Harold Haugh, Veronica Klinefelt, Marvin Sauger, Robert Mijac, Macomb County Board of Commissioners; Vince Astorino, Operations & Flow Manager, Brian Baker, Chief Deputy, Stephen Downing, Construction & Maintenance Manager, Jeff Bednar, P.E., Environmental Resources Manager, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Kellie Kource, Drain Account Specialist, Karen Czernel, Deputy, Danielle Devlin, Environmental Specialist, Macomb County Public Works

The meeting was called to order by the Chair, Candice Miller. A motion was made by Mr. Santo, supported by Ms. Miller to approve the agenda as presented.

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of November 18, 2019 were presented. A motion was made by Mr. Santo, supported by Ms. Miller to approve the minutes as presented.

Adopted: YEAS: 2
NAYS: 0

The meeting was opened to public participation, then closed, there being no comments from the public.

Mr. Downing updated the board that the fall plantings went well. After the spring thaw we will continue planting the spring trees, get into our growth and establishment periods, and install the restrictor plates and continue to observe and monitor how the drain is functioning.

A motion was made by Mr. Santo, supported by Ms. Miller to receive and file the project update by Mr. Downing.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$170,943.37 to the board for review and approval.

A motion was made by Mr. Santo supported by Ms. Miller to approve the invoices as presented.

Adopted: YEAS: 2
NAYS: 0

A motion to receive and file the financial report given by Mr. Manning was made by Mr. Santo, supported by Ms. Miller.

Adopted: YEAS: 2
NAYS: 0

There being no further business, it was moved by Mr. Santo, supported by Ms. Miller, that the meeting of the Sterling Relief Drain Board be adjourned.

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 10:26 a.m.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on January 13, 2020 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

DATED: 1/13/20



Candice S. Miller

Public Works Commissioner
Macomb County

February 24, 2020

Mr. Gerard Santoro
Macomb County Planning & Economic Development
One South Main Street, Seventh Floor
Mount Clemens, Michigan 48043

Mr. Santoro,

Please accept this correspondence as a formal letter of support for Macomb County's efforts in funding the Sterling Relief/Red Run Drain Confluence Habitat Restoration and Regional Trail Connector. The Macomb County Public Works Commissioner's Office believes this project will enhance our green space, improve water quality, restore native habitats and provide greater access to our regional trail network.

We understand that the Macomb County Department of Planning & Economic Development, in partnership with our office, is applying for funding through the Southeast Michigan Resiliency Fund with the goal of extending the existing Sterling Relief Drain retrofit/daylighting project to the east and connecting with Freedom Hill County Park and the Macomb Freedom Regional Trail. This grant would enable the restoration of over 1.35 miles of riparian areas and completion of a 1 mile waterfront trail along the Sterling Relief Drain from Schoenherr Road to the Red Run Drain, and allow additional enhanced greenway development for 0.6 miles behind the Freedom Hill County Park, including the trail connector.

The Macomb County Public Works Commissioner's Office is a partner in this effort and as noted in the proposal is committed to \$8,000 for in-kind staff time to help with grant administration and management of the project. This project will treat nearly 20 acres of invasive species and enhance wildlife corridors in this urban area along the Sterling Relief, Red Run, Bousson Drain and Clinton River. Native plantings will improve habitat for birds and pollinator species while also capturing and infiltrating an estimated 500,000 gallons of urban stormwater off per year. It will also increase the county's tree canopy, which is a goal of the Green Macomb – Urban Forest Partnership.

In closing, we appreciate the chance to be a part of this important project and look forward to the improved quality of life to be enjoyed by the residents of Macomb County.

Sincerely,

Candice S. Miller, Commissioner
Macomb County Public Works Office



**Sterling Relief/Red Run Drain Confluence
Habitat Restoration and Regional Trail Connector**

CONCEPT PLAN



EasyGrantsID: 67170

National Fish and Wildlife Foundation – Southeast Michigan Resilience Fund 2019, Full Proposal

Title: Sterling Relief/Red Run Drain Confluence Habitat Restoration and Regional Trail Connector

Organization: Macomb County, Michigan

Grant Information

Title of Project

Sterling Relief/Red Run Drain Confluence Habitat Restoration and Regional Trail Connector

Total Amount Requested	\$ 300,000.00
Matching Contributions Proposed	\$835,172.50
Proposed Grant Period	08/01/ 2020 - 12/31/ 2022

Project Description

This project will restore over 1.35 miles of riparian areas along the Sterling Relief and Red Run drains in Macomb County as a natural habitat corridor link in order to increase habitat complexity and biodiversity, connect new and existing habitat corridors (Sterling Relief, Red Run, Bousson Drain and Clinton River), benefit native pollinators, control invasive species, plant 475 trees, 2,500 shrubs and 4,000 native pollinator plugs, develop a mile long waterfront trail, and capture and infiltrate an estimated 200,000 gallons of urban stormwater runoff per year from riparian tree plantings.

Project Abstract

The Sterling Relief/Red Run Drain Confluence Habitat Restoration and Trail Connector project is located in Macomb County, MI in the City of Sterling Heights.

This project will restore riparian habitat along 1.35 miles of the Sterling Relief and Red Run drains to increase habitat complexity and biodiversity, connect habitat corridors (Sterling Relief, Red Run, and Clinton River) benefit native pollinators, control invasive species, reduce erosion, increase riparian canopy, and develop a waterfront trail for public access.

Grant activities will restore over 30 acres of diverse native habitat including 10.75 acres riparian canopy, 12.25 acres of native pollinator prairie plantings, and 2.75 acres of stream bank re-vegetation and stabilization, treat over 20 acres for invasive species, plant 475 trees and 2,500 shrubs, develop a mile long waterfront trail connecting to the regional Freedom Trail, and reduce runoff by 200,000 gallons per year from riparian tree plantings.

This project will improve habitat for bird and pollinator species of conservation concern including the American bittern, black-crowned night heron, common nighthawk, golden-winged warbler, least bittern, northern harrier, short-eared owl, monarch butterfly, Karner blue butterfly, and rusty-patched bumble bee.

This project is a partnership between Macomb County’s Public Works, Roads, and Planning departments, City of Sterling Heights, Clinton River Watershed Council, and the Lake St. Clair CISMA.

Organization and Primary Contact Information

Organization	Macomb County, Michigan
Organization Type	State or Local Government
City, State, Country	„

Region (if international)

Primary Contact	Amanda Oparka
Position/Title	Senior Planner
Phone and E-mail	x ; amanda.oparka@macombgov.org



NFWF

EasyGrantsID: 67170

National Fish and Wildlife Foundation – Southeast Michigan Resilience Fund 2019, Full Proposal

Title: Sterling Relief/Red Run Drain Confluence Habitat Restoration and Regional Trail Connector

Organization: Macomb County, Michigan

Matching Contributions

Matching Contribution Amount:	\$20,000.00
Type:	In-kind
Status:	Received
Source:	Macomb County
Source Type:	Non-Federal
Description:	In-kind match of staff time for grant administration, project meetings, site visits, public education and graphics for signage.

Matching Contribution Amount:	\$313,120.35
Type:	Cash
Status:	Pledged
Source:	Macomb County
Source Type:	Non-Federal
Description:	Macomb County has pledged \$313,120.35 of cash from the county's Act 51 allocation that will be used as match for the creation of the 1 mile waterfront trail.

Matching Contribution Amount:	\$502,052.15
Type:	Cash
Status:	Pledged
Source:	Red Run Inter-County Drain Board
Source Type:	Federal
Description:	The Red Run Drain Board is currently evaluating drain improvements to support habitat and stream stabilization in the project area. This is likely to occur during the project period. As they finalize project scope and funds we will provide updates.

Total Amount of Matching Contributions:	\$835,172.50
--	--------------



CITY OF Sterling Heights
InnovatingLiving

Richard J. Notte Sterling Heights City Center
 City Hall
 40555 Utica Rd. | P.O. Box 8009
 Sterling Heights, MI | 48311-8009

City Council

<i>Mayor</i>	Michael C. Taylor
<i>Mayor Pro Tem</i>	Liz Sierawski
<i>Councilwoman</i>	Deanna Koski
<i>Councilman</i>	Michael V. Radtke Jr.
<i>Councilwoman</i>	Maria G. Schmidt
<i>Councilman</i>	Henry Yanez
<i>Councilwoman</i>	Barbara A. Ziarko

TEL 586.446.CITY (2489) FAX 586.276.4077
 cityhall@sterling-heights.net | www.sterling-heights.net
 facebook.com/cityofsterlingheights | twitter.com/sterlingheights

City Manager Mark D. Vanderpool

February 12, 2020

Mr. Gerard Santoro
 Macomb County Planning & Economic Development
 One South Main Street, Seventh Floor
 Mount Clemens, Michigan 48043

Mr. Santoro,

Sterling Heights City Administration supports Macomb County's effort to fund the extension of the Sterling Relief Greenway and to enhance this greenway, between Metro Parkway and Schoenherr Road, with pedestrian circulation and greater access to the regional trail network the Southeast Michigan Resiliency Fund. We understand that Macomb County Department of Planning & Economic Development and Macomb County Public Works Office is applying for funding to extend this project to the east and connect with Freedom Hill County Park and Macomb Freedom Regional Trail. This grant will fund the next steps in completing the greenway along the Sterling Relief Drain from Schoenherr Road further east through to the confluence with the Red Run River Drain, including greenway development for 0.6 Miles (six-tenths) behind the County park that also includes the trail connector. The proposed trail will not abut residential homes and does not extend west of Schoenherr Road.

We support this effort knowing it provides a means to access the Freedom Hill County Park from our heavily populated area to the west and continues the trail all the way to Freedom Trail and then will serve as a future connector to the State of Michigan's initiative with the Iron-Belle Trail. The initiative will include a complementary greenway application beyond the already funded projects through Sustain Our Great Lakes, and the USEPA Office in the area from Schoenherr to Red Run. This will complete both the greenway and the regional trail connector in this gapped and underserved area within the County and assists in the increase in additional tree canopy cover as is the main goal of the Green Macomb – Urban Forest Partnership.

The project is consistent with the City's Sustainability Plan, Non-motorized Transportation Plan, Reforestation efforts and Recreating Recreation. With this in mind, please accept this letter as a means of support for this project. Thank you for putting very meaningful projects like this together for the good of all of our citizens and visitors.

Best regards,

A handwritten signature in black ink, appearing to read 'Mark Vanderpool', with a long horizontal flourish extending to the right.

Mark Vanderpool, City Manager
City of Sterling Heights Michigan

**Red Run Inter-County Drainage Board
Resolution of Support**

Resolution Approving Submission of Southeast Michigan Resilience Fund Application for Sterling Relief/ Red Run Drain Confluence Habitat Restoration and Regional Trail Connector

The following resolution was offered by board member, Nash and second by board member Miller,

Whereas, The Red Run Inter-County Drainage Board has determined it is in support of the Sterling Relief/ Red Run Drain Confluence Habitat Restoration and Regional Trail Connector proposal being submitted by Macomb County Planning and Economic Development.

Whereas, Funding is available from the National Fish and Wildlife Foundation through the Southeast Michigan Resilience Fund for improving habitat quality, connectivity and accessibility and expanding green stormwater infrastructure while enhancing public spaces.

Whereas, the total project cost is estimated at no more than \$1,135,000 of which \$300,000 will be funded through Southeast Michigan Resilience Fund and the remaining through local match.

Therefore be it resolved that, The Red Run Inter-County Drainage Board does hereby approve the submission of a grant application to the Southeast Michigan Resilience Fund for the total cost of no more than \$1,135,000 for the Sterling Relief/ Red Run Drain Confluence Habitat Restoration and Regional Trail Connector proposal being submitted by Macomb County Planning and Economic Development and acknowledges that the Red Run Inter-County Drainage Board is currently evaluating Drain Improvements that support habitat improvements and stream stabilization within the proposed project area. Hereby adopted on February 19th, 2020.

Adopted: Ayes: 3
 Nays: 0

I certify the foregoing to be a true and correct copy of a resolution that was adopted by the Red Run Inter-County Drainage Board at a meeting held on February 19th, 2020.



Michael Gregg, Chair
Red Run Inter-County Drainage Board



CLINTON RIVER WATERSHED COUNCIL
47 Years of Dedication

1115 W. Avon Road
Rochester Hills, MI 48309
248-601-0606
www.crwc.org
contact@crwc.org

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Communications Specialist
Linda Schuler
Membership & Operations
Coordinator
Kathleen Sexton
Program Manager
Janice Sugden
Accountant
Katie Yates
Program Coordinator

February 7, 2020

Mr. Gerard Santoro
Macomb County Planning & Economic Development
One South Main Street, Seventh Floor
Mount Clemens, Michigan 48043

Mr. Santoro,

Please accept this correspondence as a formal letter of support for Macomb County's efforts in funding of the Sterling Relief/Red Run Drain Confluence Habitat Restoration and Regional Trail Connector. The Clinton River Watershed Council believes this project will enhance our green space, improve water quality, restore native habitats and provide greater access to our regional trail network.

We understand that the Macomb County Department of Planning & Economic Development and the Macomb County Public Works Office is applying for funding through the Southeast Michigan Resiliency Fund with the goal of extending the existing Sterling Relief Drain retrofit/daylighting project to the east and connecting with Freedom Hill County Park and the Macomb Freedom Regional Trail. This grant would enable the restoration of over 1.35 miles of riparian areas and completion of a 1 mile waterfront trail along the Sterling Relief Drain from Schoenherr Road to the Red Run Drain, and allow additional enhanced greenway development for 0.6 miles behind the Freedom Hill County Park, including the trail connector.

The Clinton River Watershed Council is a partner in this effort and as noted in the will provide pre and post monitoring for the project. This project will treat nearly 20 acres of invasive species and enhance wildlife corridors in this urban area along the Sterling Relief, Red Run, Bousson Drain and Clinton River. Native plantings will improve habitat for birds and pollinators species while also capturing and infiltration an estimated 500,000 gallons of urban stormwater off per year. It will also increase the county's tree canopy, which is a goal of the Green Macomb – Urban Forest Partnership.

In closing, I would like to reiterate that the Clinton River Watershed Council fully supports this project. We appreciate all of the meaningful work being done and look forward to next steps.

Best regards,

Anne Brasie, Executive Director
Clinton River Watershed Council



February 24, 2020

To whom it may concern,

It is with great enthusiasm that the Lake St. Clair (LSC) Cooperative Invasive Species Management Area (CISMA) offers this letter of support to Macomb County Planning and Economic Development (MCPED) for the Sterling Relief / Red Run Confluence Habitat Restoration Project. This project will reduce invasive species propagule pressure, restore valuable habitat, and contribute to the LSC CISMAs goals and objectives.

The LSC CISMA recognizes that invasive plants are a threat to ecosystems, our economy, and our health. Recognizing that invasive species can be spread directly through natural vectors of dispersal, such as streams and rivers, it is of utmost importance to determine population distributions to aid in future management. To show our commitment for this effort, the LSC CISMA will provide staff time and GIS mapping applications to facilitate monitoring activities.

We believe our support and commitment will significantly improve the effectiveness of evaluating invasive species management and restoration of terrestrial plant communities. We look forward to working with MCPED and would like to thank you for your consideration of this project.

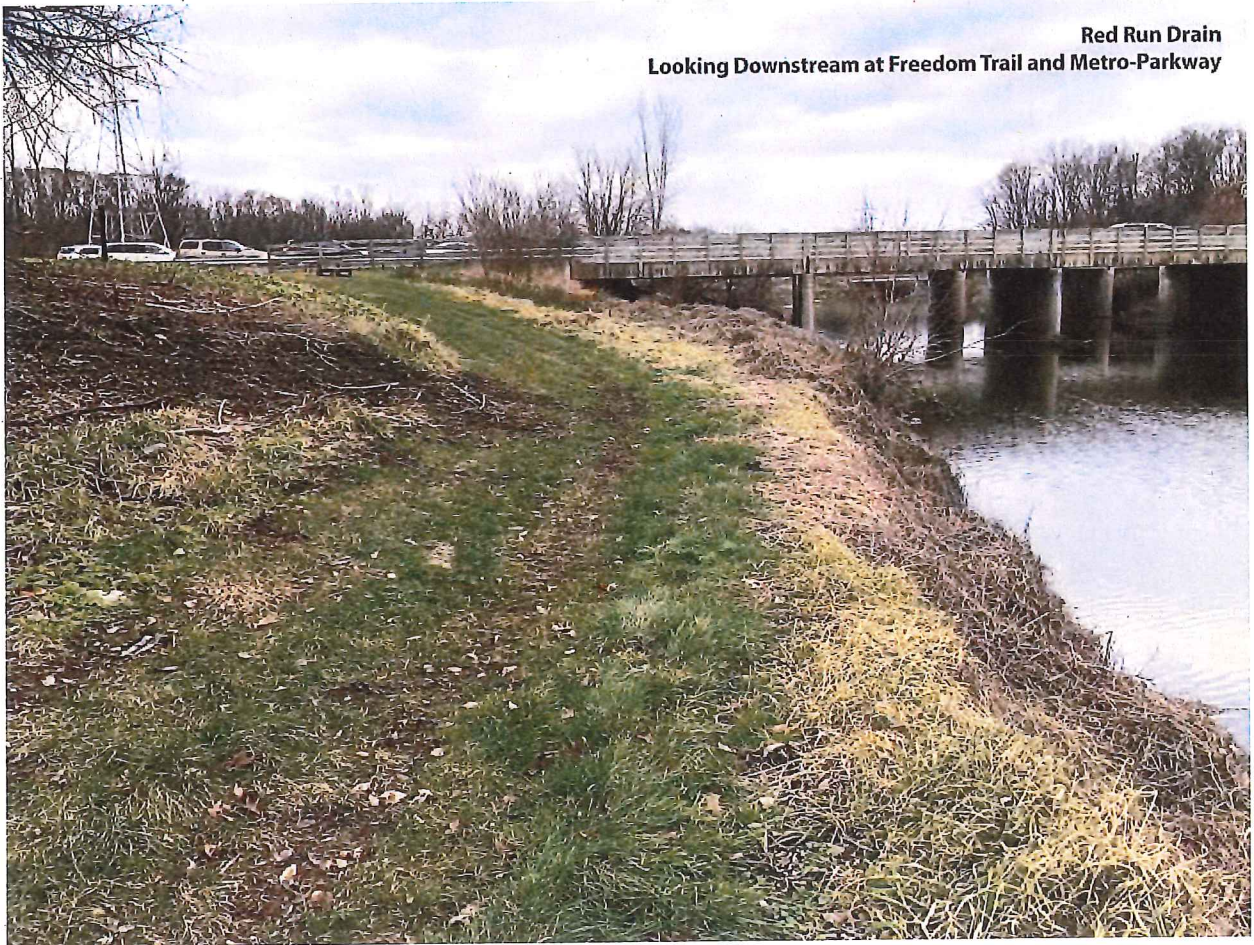
Sincerely,

McKenzi Waliczek
Coordinator
Lake St. Clair Cooperative Invasive Species Management Area

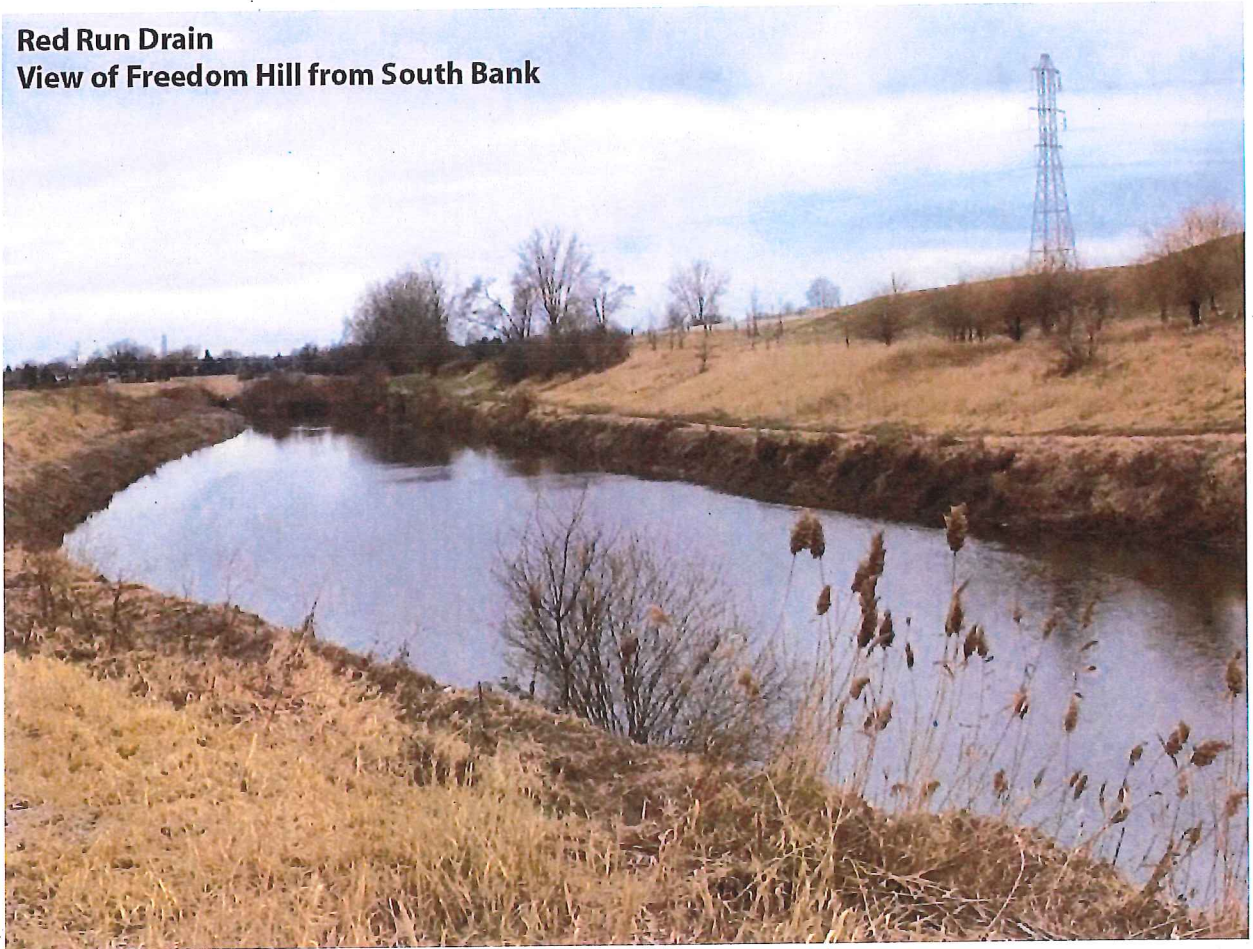
**Sterling Relief Drain
Daylighted Section Just Upstream of Confluence With Red Run**



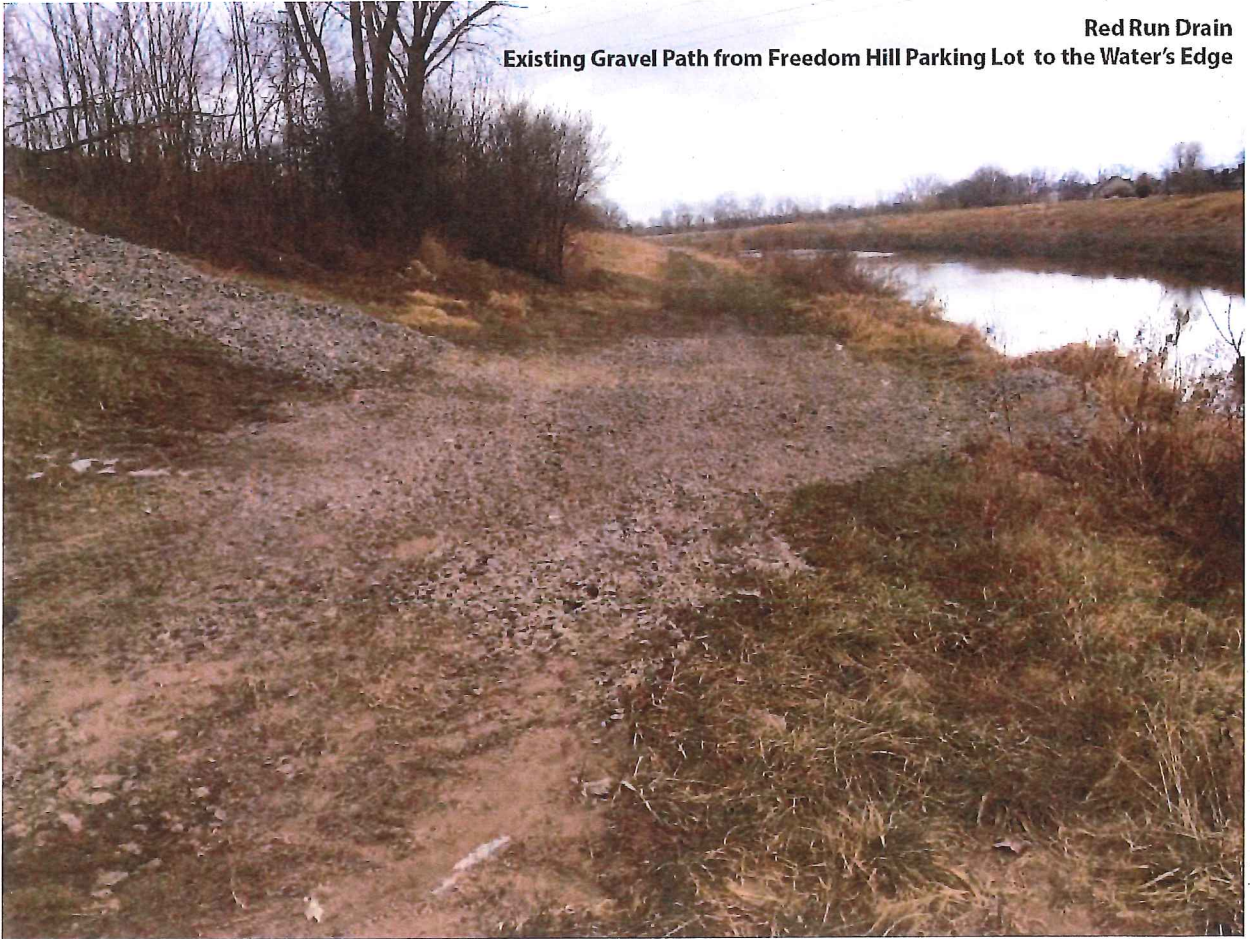
Red Run Drain
Looking Downstream at Freedom Trail and Metro-Parkway



Red Run Drain
View of Freedom Hill from South Bank



Red Run Drain
Existing Gravel Path from Freedom Hill Parking Lot to the Water's Edge



STERLING RELIEF DRAIN 2/11/20 - 2/25/20

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
Sterling Relief Drain	Chapter 20 State of MI - 3.29% Macomb County - 7.79% Sterling Heights - 88.93%						
	EPA Grant	Downing	TR Pieprzak	\$ 13,612.83	Invoice #18-016 EST #8	EPA Portion of Daylighting Grant	\$ 161,041.53
	SOGL Grant	Downing	TR Pieprzak	\$ 6,554.32	Invoice #18-016 EST #8	SOGL Portion of Daylighting Grant	\$ 77,869.67
Total				\$ 20,167.15			

YTD Trial Balance

Fund: Sterling Relief

As of Fiscal Period: Oct 1, 2019-Feb 29, 2020

	O&M Balance 9/30/2019	O&M	Total 2/29/2020
Cash - Operating	181,419	4,862	186,281
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		21,154	21,154
Expenditures		16,292	16,292
Equity	181,419		186,281

<u>NOTES</u>	EPA	SOGL	Total
Daylighting Project	1,250,000	602,183	1,852,183
YTD	(1,088,958)	(524,312)	(1,613,270)
Remaining	161,042	77,871	238,913