

MARTIN SANITARY DIVERSION DRAIN  
INTRA-COUNTY DRAINAGE BOARD  
FEBRUARY 14, 2022  
10:00 A.M.  
AGENDA

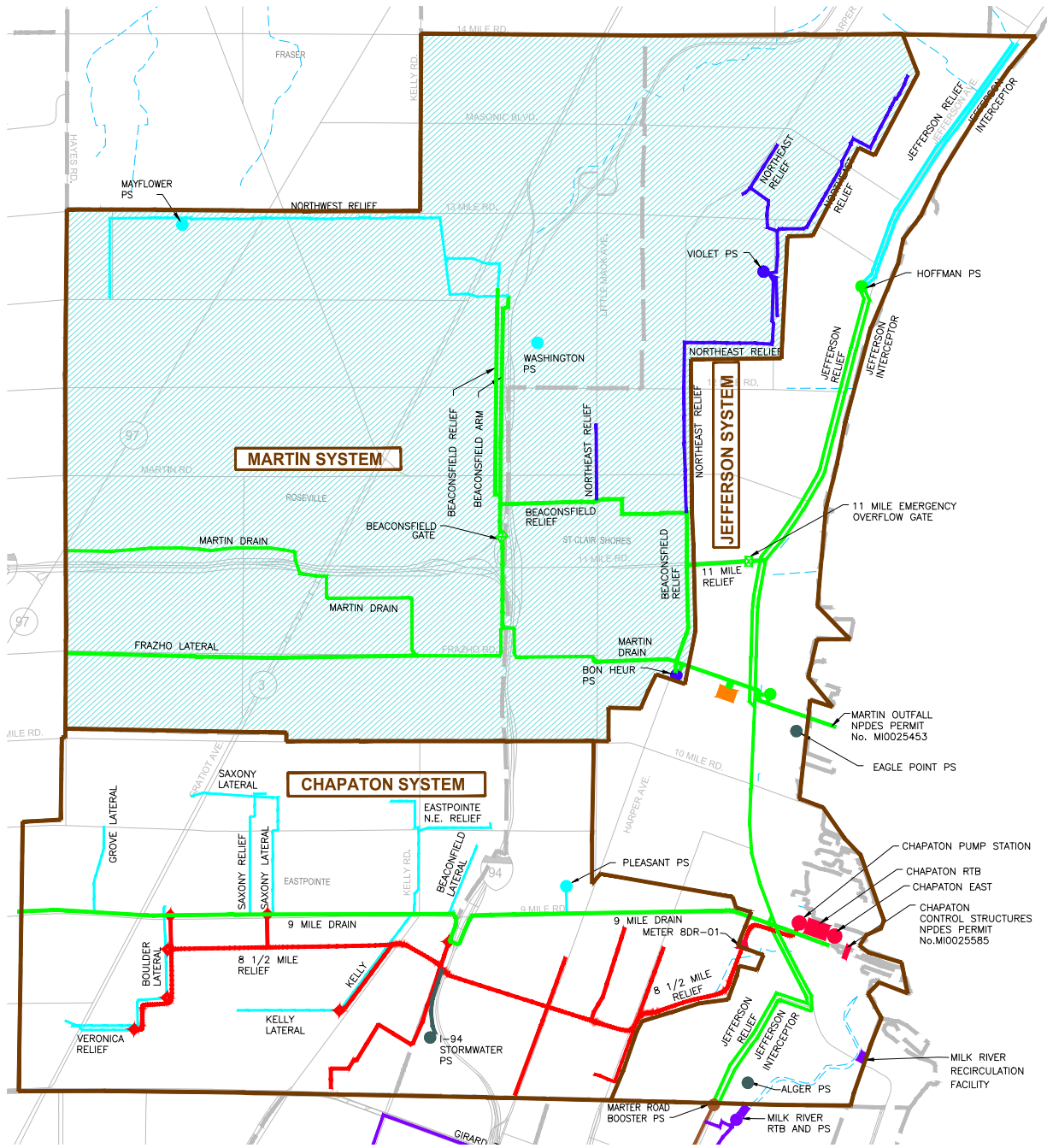
**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE  
OPTION FOR PUBLIC**

**Call in Number: 1-971-770-2471  
Access Code: 669 029 760**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for February 14, 2022	
3. Approval of Minutes for January 10, 2022	3
4. Public Participation	
5. Project Update – Vince Astorino	6
6. In System Storage Project - Petition Public Hearing	8
a. Project Overview – Vince Astorino	
b. Objections to Petition, Projects, Entities to be Assessed – Brian Baker	
c. Approval of Resolution #2 – Brian Baker	
<p>Motion: To approve the Martin Drain In System Storage Project Resolution #2 and authorize the Chair Candice Miller to issue the Final Order of Determination</p>	
7. Consideration for approval of invoices (see attached)	14
8. Financial Report – Bruce Manning	15
9. Adjourn	

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

**MARTIN SYSTEM MAP**  
Macomb County, MI  
Southeast Macomb Sanitary District  
Wastewater Master Plan



**SYSTEM LEGEND**

(AS OF DATE OF PUBLICATION)

- SYSTEM BOUNDARY

**DISTRICT LEGEND**

(AS OF DATE OF PUBLICATION)

- 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT
- SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM
- MARTIN SANITARY DIVERSION DISTRICT
- SOUTHEAST MACOMB SANITARY DISTRICT
- NORTHEAST SEWAGE DISPOSAL SYSTEM
- MILK RIVER INTERCOUNTY DRAIN DRAINAGE DISTRICT
- LOCAL MUNICIPALITY
- OTHER

**ASSET LEGEND**

- PUMP STATION
- ⊠ FLOW CONTROL STRUCTURE
- RETENTION TREATMENT BASIN
- GRAVITY INTERCEPTOR
- ◆ OVERFLOW POINT

An adjourned meeting of the Intra-County Drainage Board for the **MARTIN SANITARY DIVERSION DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on January 10, 2022, at 10:00 A.M.

PRESENT: Candice Miller, Chair  
Bryan Santo, Member  
Harold Haugh, Member

ALSO PRESENT: Dan Acciavatti, Deputy Government Relations; Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Jeff Bednar, Environmental Resources Manager; Stephen Downing, Construction & Maintenance Manager; Norb Franz, Communications Manager; Bruce Manning, Financial Manager; Tom Stockel, Construction Supervisor; Madison Tanghe, Administrative Coordinator; Veronica Klinefelt, Macomb County Board of Commissioners; Joe Romano, Macomb County Board of Commissioners; Don VanSyckel, Macomb County Board of Commissioners; Rob DeBruyn, Director of DPS for City of Roseville; Scott Lockwood, AEW on behalf of City of Roseville; Jeff Schmidt, Director City of Roseville; Brian Schulte, Department of Public Services for the City of Roseville

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

Adopted: YEAS: 3  
NAYS: 0

Minutes of the meeting of December 13, 2021 were presented. A motion was made by Mr. Santo, supported by Mr. Haugh to approve the minutes as presented.

Adopted: YEAS: 3  
NAYS: 0

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

Mr. Astorino updated the board about a wet weather event that took place on December 11, 2021. Rainfall of 1.15 inches. Treated Discharge Volume 18.4 MG. Water Quality Numbers 6cts/100ml geometric mean (permit maximum is 1000 cts/ml). He went on to explain that it was a smaller rain event but since this occurred during the non-growing season the storm behaved as if it were a larger rain event. All equipment worked as designed and there are no issues to report.

In regards to the Martin Flushing Improvement Project – Mr. Astorino explained that we are at somewhat of a standstill, awaiting the gates. Gates have been ordered, anticipated arrival of gates are mid April. Once they arrive, we will get them in and that project will be completed.

A motion was made by Mr. Haugh, supported by Mr. Santo to receive and file the project update by Mr. Astorino.

Adopted: YEAS: 3  
NAYS: 0

Mr. Baker spoke about receiving two petitions from St. Clair Shores/Roseville for the Martin In-System Storage Project. Mr. Baker explained that the drain code sets out a process for considering these petitions which includes publishing a notice for a public hearing at the next drain board meeting. We will publish twice in Macomb Daily, and that meeting will be to hear objections next month in February. Today's resolution tentatively determines if the petitions are sufficient, the project is practical, and which communities benefit.

Mr. Astorino gave a quick overview of the project which includes the history of the Martin Drain, and the Martin Retention Basin. This facility handles about 78% of Roseville and 22% of St. Clair Shores. Potentially everything in that area during wet weather goes through the Martin Retention Basin. Mr. Astorino says on average there are approximately 7 permitted treated events per year. He presented a graph showing that last year, Chapaton had less events than Martin because of some changes that MCPW have implemented at Chapaton. This projects goal is to target filling the existing storage within the Martin drain because findings show that during smaller events the pipe isn't being filled to its maximum potential, therefore installing an in-system storage device within that pipe will force the water to be stored. An existing location to save cost was chosen near the Bon Heur Pump Station to store any equipment including electrical. This provides 3.6 MG of storage in Martin Drain which means approximately a 20% reduction in annual overflow volume. Mr. Astorino presented an animation showing how the fixed weir wall with gates would work to control the flow.

Ms. Miller pointed out that the gates are different than what we are using at Chapaton, which is an inflated bladder.

Mr. Haugh questioned who will open the gates to which Ms. Miller responded that we will be doing that with our operators and SCADA.

Mr. Astorino explained the back-up regarding level sensors, including alarms and back up gates.

Mr. Baker then discussed estimated \$4 million project costs. \$620,000 is already budgeted, with \$1 million committed from SEMSD resulting in net project costs to finance of \$2,380,000 with an estimated annual debt financing cost \$140,000. There is also a possible \$1 million federal earmark and use of State and County American Rescue Plan funds. There is other Chapter 20 debt (Lake St. Clair Clean Water Initiative Bonds) expiring in 2022 which will save Roseville \$521,000 and St. Clair Shores \$1.6 million in payments annually.

Ms. Miller stated that Martin is now a worse offender of CSO's than Chapaton and commends Mr. Astorino and his team for their hard work. She also mentioned that St. Clair Shores is going to spend some of their ARP money on a large quadrant of the city within the Martin Drainage District and building a system separating storm/sanitary water. She mentioned that Roseville may have future problems and that while they have done some separating, and it will be costly, future planning needs to be done for a retention basin, possibly in their city park as it runs along the drain.

Mr. Haugh questioned if the gates are electrically controlled. Mr. Astorino stated the electricity will come from the Bon Heur Station and that it is backed up with a generator.

Mr. Baker mentioned again that we've applied for an SRF loan and that we've submitted for \$1 million in federal funding from Senator Peters, requested ARP funding from Macomb County BOC and the state, design is underway and projected to be completed by June 2022, construction could start in the Fall of 2022. We've presented the project to St. Clair Shores and Roseville City Councils and we are here today to begin to finalize the petition process for the project for consideration by the Martin Drainage District.

Mr. Haugh deferred to some attendees that were in attendance who represent the City of Roseville for questions they may have. They had no questions at that time.

A motion was made by Mr. Haugh, supported by Mr. Santo to approve the resolution tentatively determining the petitions are sufficient, the proposed project is practicable, and scheduling a Public Hearing for February 14, 2022.

Adopted: YEAS: 3  
NAYS: 0

The Chair presented the invoices totaling \$8,980.48 to the board for review and approval. A motion was made by Mr. Santo, supported by Mr. Haugh to approve the invoices as presented.

Adopted: YEAS: 3  
NAYS: 0

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

Adopted: YEAS: 3  
NAYS: 0

There being no further business, it was moved by Mr. Haugh, supported by Mr. Santo, that the meeting of the Martin Sanitary Diversion Drain be adjourned.

Adopted: YEAS: 3  
NAYS: 0

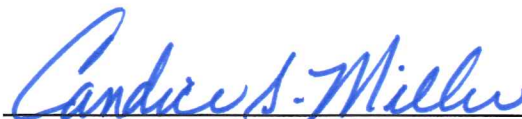
The meeting was adjourned at 10:22 a.m.



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 taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on January 10, 2022 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: 01/10/21



**Candice S. Miller**

Public Works Commissioner  
Macomb County

To: Martin Sanitary Diversion Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: February 14, 2022

Subject: Construction Projects Status Updates for the February 2022 Board Meeting

The following provides a status update for construction work completed within the Martin Sanitary Diversion Drain District (MSDDD) for the previous month.

### Wet Weather Operations

No wet weather events for this past month.

### Martin Flushing Improvements Project

**Contractor:** L. D'Agostini & Sons, Inc.

**Engineering Consultant:** AEW

#### **Project Description:**

This project consists of the installation of two small sluice gates and a concrete weir within the Martin Retention Treatment Basin (RTB) to aid in flushing sediment and debris. The existing piped flushing systems at the facility are largely abandoned and require the use of storm water or lake water to use as the water source. This adds cost since these sources ultimately become metered flow. In 2016, MCPWO obtained approval from EGLE for a pilot program to use dry-weather flow in the Martin Drain as the flushing water source. This program involves installing temporary stoplogs within the influent channel of the RTB to divert flow through the three main zones within the RTB. This program was successful but requires manned-entries to install and reconfigure the stoplogs. The completion of this project will provide remotely-operated gates and a passive weir to direct flow where needed.

#### **Significant project tasks that have occurred over the past month:**

1. Gate delivery confirmed for early April; no construction activity until mid-March

**Construction Costs:**

	Date (if applicable)	Amount
Original Contract Amount	10/19/21	\$610,049.34
Change Order	-	-
Revised Contract Amount	-	-
Total Spent to Date	-	-
Remaining Budget		\$610,049.34

# MACOMB COUNTY PUBLIC WORKS OFFICE



**CANDICE S. MILLER**

MACOMB COUNTY PUBLIC WORKS COMMISSIONER

## Martin In-System Storage Project

Presented on: February 14, 2022

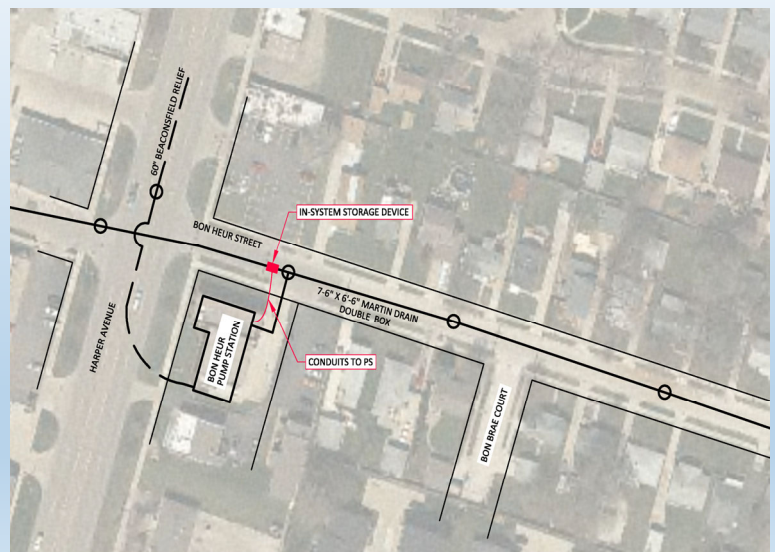
### Utilizing Existing Infrastructure

Candice S. Miller

Macomb County Public Works Commissioner



- Installation of a new in-system storage device near Bon Heur Pump Station
- Utilize Bon Heur Pump Station building for system controls to save cost
- Provides 3.6 MG of Storage in Martin Drain
- 20% reduction in annual overflow volume

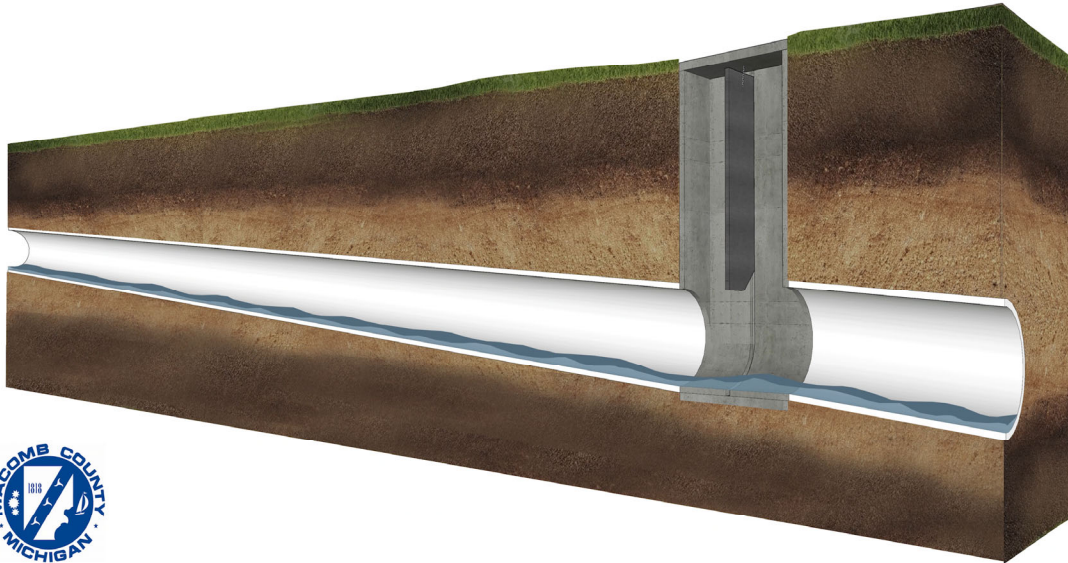




# Storage Animation

Candice S. Miller

Macomb County Public Works Commissioner



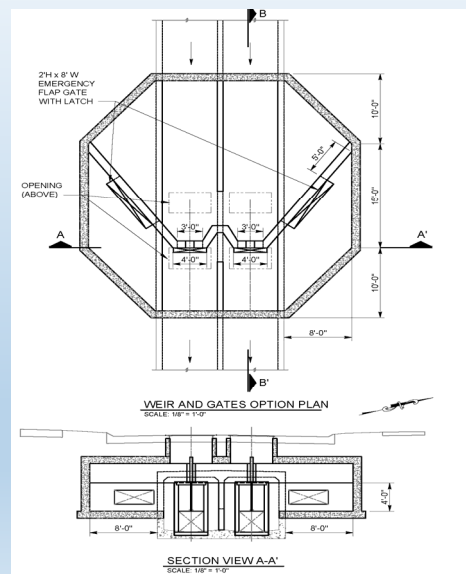
# Fixed Weir w/ Gates

Candice S. Miller

Macomb County Public Works Commissioner



- Construct a Weir Wall With Low Flow / Dewatering Gates
- Dry flow passes through open gates
- Gates close to store flow
- When storage is full, flow can overtop weir wall safely
- Top of wall designed to keep flow below basement elevations



# Projected Project Costs

Candice S. Miller  
Macomb County Public Works Commissioner



	In-System Storage
Estimated Construction Costs	\$4,000,000
Funds Already Budgeted	(\$620,000)
Funds committed from SEMSD	(\$1,000,000)
<b>Net Project Costs to Finance</b>	<b>\$2,380,000</b>
Estimated Annual Debt Financing Cost* (20-year 1.875% SRF Bond)	\$140,000

Apportionment of Martin Costs  
St. Clair Shores = 21.91%  
Roseville = 78.09%

\*Possible \$1 million federal earmark and use of State and County American Rescue Plan funds

\*\*There is also other Chapter 20 debt (Lake St. Clair Clean Water Initiative Bonds) expiring in 2022 which will save Roseville \$521,000 and St. Clair Shores \$1.6 million in payments annually

## MARTIN DRAIN DRAINAGE DISTRICT

### MARTIN DRAIN

#### NOTICE OF PUBLIC HEARING

**DATE:** February 14, 2022

**TIME:** 10:00 a.m.

**LOCATION:** 21777 Dunham Road, Clinton Township, MI 48036

**QUESTIONS:** (586) 307-8210

**PLEASE TAKE NOTICE** that pursuant to Chapter 20 of Act 40, Public Acts of Michigan 1956, a petition was filed with the Macomb County Public Works Commissioner by the City of St. Clair Shores and the City of Roseville, requesting said Public Works Commissioner maintain and improve the Martin Drain.

**PLEASE TAKE FURTHER NOTICE** that the Drainage Board for the Martin Drain Drainage District has considered said petition and made a tentative determination that the petition is sufficient and that project is practicable. The Drainage Board has further determined to continue the name "Martin" as the name of the drain, and has made a tentative determination that the following public corporations should be assessed for the cost of the project as follows:

City of St. Clair Shores, Macomb County, Michigan for benefits to the public health; and

City of Roseville, Macomb County, Michigan for benefits to the public health.

**PLEASE TAKE FURTHER NOTICE** that the Drainage Board will meet at the above date, time and location for the purpose of hearing any objections to the proposed drain project and the petition for the drain, and to the matter of assessing cost of the drain to the designated public corporations named above.

Proceedings conducted at this public meeting will be subject to the provisions of the Michigan Open Meetings Act. Information regarding this meeting may be obtained from the Macomb County Public Works Commissioner's Office located at 21777 Dunham Road, Clinton Township, MI 48036.

Persons with disabilities needing accommodations for effective participation in the meeting should contact the Public Works Commissioner at the number listed above or through the Michigan Relay Center at 7-1-1 (TDD) at least 24 hours in advance of the meeting to request mobility, visual, hearing or other assistance.

Dated: January 10, 2022

Candice S. Miller  
Macomb County Public Works Commissioner



**MARTIN DRAIN DRAINAGE DISTRICT**

**MARTIN DRAIN**

**RESOLUTION NO. 2**

At a \_\_\_\_\_ meeting of the Drainage Board (the “Drainage Board”) of the Martin Drain Drainage District, held at \_\_\_\_\_ on the February 14, 2022, at \_\_\_\_\_ a.m./pm.:

PRESENT: \_\_\_\_\_

ABSENT: \_\_\_\_\_

The following resolution was offered by \_\_\_\_\_ and supported by \_\_\_\_\_:

**WHEREAS**, a petition was filed with the Macomb County Public Works Commissioner, Chairperson of the Drainage Board (“Chairperson”) under the provisions of Chapter 20 of Act 40, Public Acts of 1956, as amended, by the City of St. Clair Shores and the Roseville requesting maintenance and improvements (the “Project”) to the Martin Drain (the “Drain”).

**WHEREAS**, the necessary proceedings have been taken pursuant to MCL 280.467 in respect to the petition, including the holding of a public hearing for the purposes of receiving objections to the proposed drain and the petition for the drain, and to the matter of assessing costs of the drain to the designated public corporations named below.

**NOW, THEREFORE, BE IT RESOLVED** by the Drainage Board of the Martin Drain Drainage District, as follows:

1. That the petition is sufficient in all respects; that the project is necessary for the public health, is practicable, and should be constructed; and that the following corporations should be assessed for the costs thereof:

- a. City of St. Clair Shores, Macomb County, Michigan for benefits to the public health; and

b. City of Roseville, Macomb County, Michigan for benefits to the public health.

2. That the Chairperson is hereby authorized and directed to issue on behalf of the Board its Final Order of Determination in accordance with the determinations made in this resolution.

3. That Fishbeck, ASI and NTH be chosen as engineers for the Project on the Drain and are hereby authorized and directed to prepare plans, specifications, estimates of cost, and all other necessary action pursuant to MCL 280.468.

4. That Fahey, Schultz, Burzych, Rhodes PLC and Miller Canfield PLC be chosen as legal counsel for the Drainage Board or the Martin Drain Drainage District.

5. All prior resolutions and parts of prior resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

Yeas: \_\_\_\_\_

Nays: \_\_\_\_\_

RESOLUTION DECLARED ADOPTED.

I, the undersigned, the duly qualified and acting Chairperson of the Drainage Board of the Martin Drain Drainage District, do hereby certify that the foregoing is a true and complete copy of certain proceedings taken by the Drainage Board of the Martin Drain Drainage District at a meeting held on February 14, 2022 and further certify that the above Resolution was adopted at said meeting.

\_\_\_\_\_  
Candice S. Miller  
Chairperson of the Drainage Board

MARTIN SANITARY DIVERSION  
01.11.22 - 02.08.22

<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>
Martin Sanitary Diversion Drain	Chapter 20 Roseville - 78.09% St. Clair Shores - 21.91%	Astorino	De-Cal, Inc.	\$ 10,890.00	Invoice #WO9212266	Furnace Replacement	
		Astorino	DTE Energy	\$ 1,256.57	Invoice #SDCCL-33KY0 - 01.18.22	Monthly Electric - 12.17.21 - 01.14.22	
		Astorino	DTE Energy	\$ 914.56	Invoice #S9757-T1HBX - 12.17.21	Monthly Electric - 11.16.21 - 12.16.21	
		Astorino	Fahey Schultz Burzych Rhodes	\$ 720.00	Invoice #738 - 01.06.22	Legal Services - Petition Process	
		Astorino	Fishbeck	\$ 8,749.98	Invoice #407319 - 12.28.21	Flushing/Confined Space Program	\$ 131,441.25
		Astorino	Fishbeck	\$ 11,899.91	Invoice #407321 - 12.28.21	In-System Storage through 12.24.21	\$ 266,392.01
		Astorino	Motor City Electric Technologies	\$ 720.00	Invoice #94222 - 01.28.22	As-Needed Services - SCADA	
		Astorino	Motor City Electric Tehnologies	\$ 720.00	Invoice #94129 - 01.03.22	As-Needed Services - SCADA	
		<b>Total</b>			\$ 35,871.02		

**YTD Budget**

**Fund: Martin Sanitary Diversion**

**As of Fiscal Period: Oct 1, 2021-Jan 31, 2022(33%)**

DESCRIPTION	2022 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
<b>REVENUE ACCOUNTS</b>					
Investment Inc-Interest	2,400		69	2,331	2.9%
Contribution from Community	600,000			600,000	100.0%
Reimb-Local Communities	1,011,270		505,635	505,635	50.0%
PY Revenue-Fund Balance	1,183,960			1,183,960	0.0%
<i>Total Revenue Accounts</i>	<i>2,797,630</i>	<i>-</i>	<i>505,704</i>	<i>2,291,926</i>	<i>18.1%</i>
<b>EXPENSE ACCOUNTS</b>					
Application/Permit Fee	6,000			6,000	0.0%
Dues, Training, Conf, Subs.	4,830			4,830	0.0%
<u>Engineering</u>					
-As Needed Engineering	25,000		2,126	22,874	8.5%
-Misc Sewer Repairs	20,000		116	19,884	0.6%
-Flushing System Upgrades-Design,Const, and CCA	795,040		7,145	787,895	0.9%
-In System Storage-Design and CCA	1,218,000		9,582	1,208,418	0.8%
-Design Basin Equipment Hatch	9,950			9,950	0.0%
-In System Storage-Design Money from SEMSD	333,000		12,620	320,380	3.8%
New Equipment	5,120			5,120	0.0%
Operating Supplies	44,880		10,067	34,813	22.4%
Other Professional Svcs	8,750		1,016	7,734	11.6%
Personnel Services	199,390			199,390	0.0%
Repair & Maintenance	58,800		9,554	49,246	16.2%
Scada System	26,320		2,478	23,842	9.4%
Utilities	42,550		1,547	41,003	3.6%
<i>Total Expense Accounts</i>	<i>2,797,630</i>	<i>-</i>	<i>56,251</i>	<i>2,741,379</i>	<i>2.0%</i>

	O&M Balance 9/30/2021	O&M	Total 12/31/2021
<b>Cash - Operating</b>	1,656,008	449,453	2,105,461
<b>Accounts Receivable</b>			0
<b>Assets</b>			0
<b>Liabilities</b>			0
<b>Revenues</b>		505,704	505,704
<b>Expenditures</b>		56,251	56,251
<b>Equity</b>	1,656,008		2,105,461

**Detail of 2021 Equity**

Design Basin Equipment Hatch	9,950	SolarWinds-Net Mgt Software	1,940
Misc Sewer Repairs	20,000	Obsolete Wireless Backhaul Links	3,230
ISS SEMSD Contribution	329,155	Fiber Optic improvements	3,220
Flushing System Upgrades-Design, Const, CCA	807,127	Firewall Hard Design/Config	2,580
CCTV of Dewatering Line and Influent and Effluent Boxes	25,000	Parking Lot Resurface	15,000
SCADA Reserves	14,090		
Capital Reserves	434,716		