

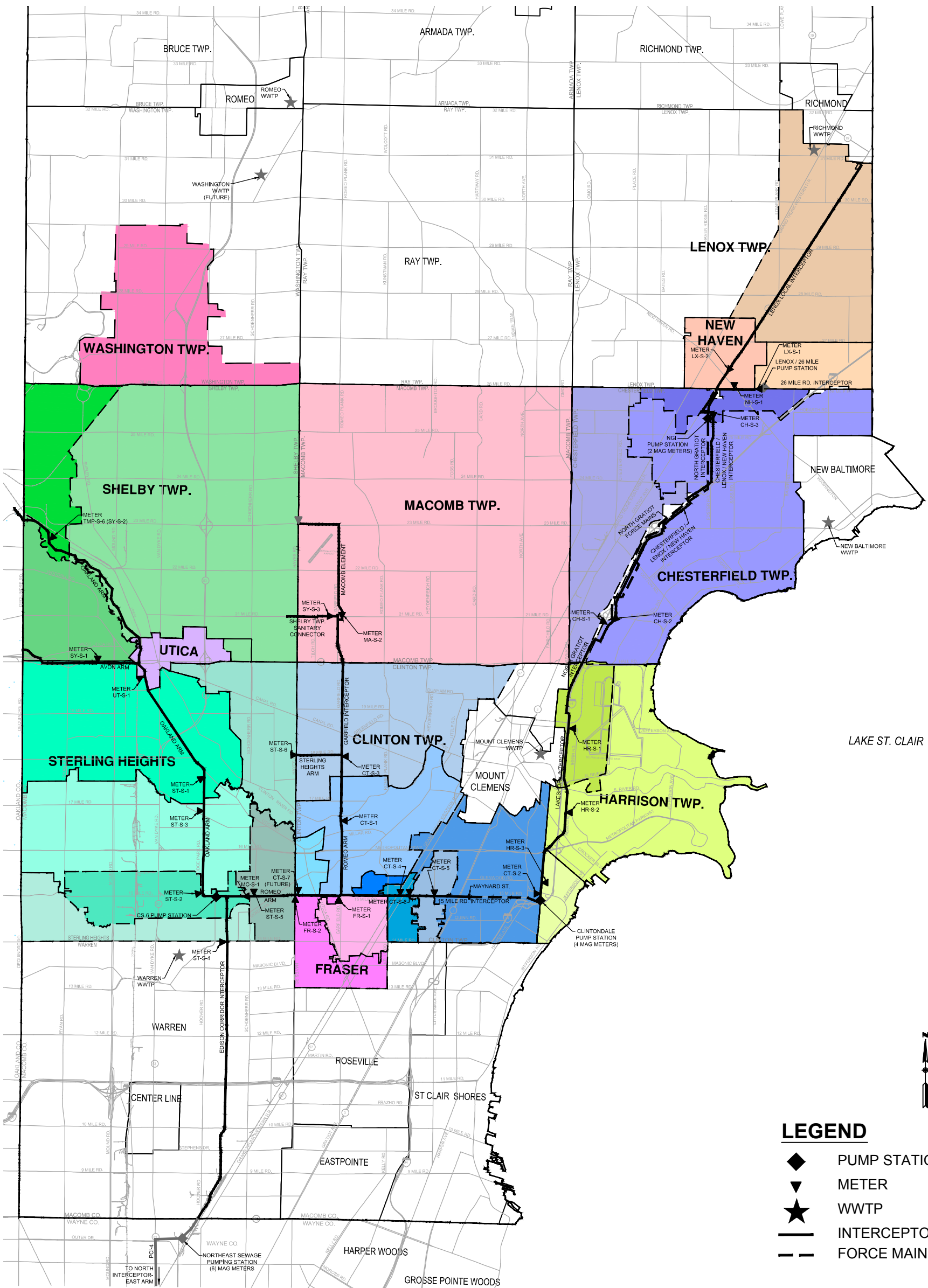
MACOMB INTERCEPTOR DRAIN
INTRA-COUNTY DRAINAGE BOARD
APRIL 10, 2023
11:00 A.M.
AGENDA

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

**Call in Number: 1-224-990-0182
Access Code: 927 405 823**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for April 10, 2023	
3. Approval of Minutes for March 13, 2023	3
4. Public Participation	
5. Project Updates – Stephen Downing/Vince Astorino	7
6. Insurance Policy Renewals – Bruce Manning/Stephen Saph	31
Motion: To approve the Chapter 20 General Liability Insurance coverage renewal with Argonaut Insurance Company in the amount of \$229,845 (MIDD share \$206,281.29)	
7. Consideration for approval of invoices (see attached)	48
8. Financial Report – Bruce Manning	49
9. Adjourn	

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT



LEGEND

- ◆ PUMP STATION
- ▼ METER
- ★ WWTP
- INTERCEPTOR
- - - FORCE MAIN



Candice S. Miller

MACOMB COUNTY PUBLIC WORKS COMMISSIONER



UPDATED: FEBRUARY 2017

An adjourned meeting of the Intra-County Drainage Board for the **MACOMB INTERCEPTOR DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on March 13, 2023, at 10:59 A.M.

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

ALSO PRESENT: Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Stephen Downing, Construction and Maintenance Manager; Norb Franz, Communications Manager; Bruce Manning, Finance Manager; Pam Sonnenberg, Administrative Assistant; Tom Stockel, Construction Supervisor

PRESENT VIA TELECONFERENCE: Mary Shepherd, Environmental and Safety Services Supervisor City of Sterling Heights

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

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of February 13, 2023 were presented. A motion was made by Mr. Santo, supported by Mr. VanSyckel 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. Downing presented photos of the Segment 5 Romeo Arm Interceptor. The contractors poured a concrete pad to work off of because of the wet conditions. The pumps will be going in this week. The photos also showed the spray lined sections of the pipe. There has been quite a bit of rain and there is about 4 weeks of spray lining left on the 8 foot pipe.

Mr. VanSyckel asked if the men that are spray lining are wearing just masks in the photo, or is there oxygen tanks attached. Mr. Downing said that they are just wearing masks but they do have escape packs on their person or nearby just in case. They also have ventilation and constantly monitor the atmosphere to keep fresh air in the work zone.

Mr. Downing said he is hopeful for the completion later this year and that it doesn't extend into next year. He said that we finally got our temporary construction permit reissued from ITC. We had been waiting since August.

Mr. Downing next presented photos of Segment 6. The CS13 gates are in place and we are working on getting them operational. They are working on getting the CS2 structure exposed for access to start the cleaning process between Control Structure 2 and 3.

Mr. Baker asked if they are going to put HOBAS through the CS2 structure. Mr. Downing said yes, the top comes off and the HOBAS goes in. He then showed a picture of the tail tunnel with the hydraulic jack mechanism. Mr. Baker asked if all of the HOBAS is in for Segment 6 and Mr. Downing said yes. They are working on the inside of the 15 Mile Interceptor and they will do the annulus grouting, then the HOBAS repairs will be performed with Ric-Man and the HOBAS representative. They have been working to get the foul air ducts layout configured. The open cut on Garfield will occur at night and will likely take 2 nights and we are hoping to complete that next month. We will coordinate with the Department of Roads.

Mr. VanSyckel asked if there will be any interference with Memorial Parades because of the timing and Mr. Downing said not that he is aware of. He said that right now we are tracking for a completion in the second week of June. As with Segment 5, Segment 6 has lost a couple weeks due to wet weather.

Mr. Astorino then updated on the Garfield Interceptor Lining Project. We are well over 300 feet complete so far. He then presented pictures and a short video showing the spiral liner machine feeding the lining. Mr. Astorino said the original plan was to have a small gap between the pipe and the new lining, but they stretched the machine out as far as they could to make it as tight as possible. We are hardly losing any pipe at all, plus with it going from concrete to PVC the flow capacity has increased due to the new surface. Ms. Miller asked how much the flow has increased and Mr. Astorino said he can get her the numbers.

Mr. Astorino updated on the Interceptor Inspection Program. We have a few minor punch list items to complete, but nothing significant in the major interceptors.

Mr. Downing said that there is nothing to report on Phase II grouting. The crew has not worked since July 2022 due to other competing project flow needs.

Mr. Downing updated on the Odor and Corrosion Control project. This project kicked off in January with work up at the NGI Pump Station to relocate a gas line. L. D'Agostini started with the foundation for the buildings as well as the tank pads.

Mr. Downing said that he met SAK and L. D'Agostini at the 21 Mile Road and Garfield site for a meet and greet as they will be working in coordination at the site. L. D'Agostini will be setting up the second week of April. Mr. Downing let them know that he would like to get traffic control out of there as soon as possible. They are coordinating with the same contractor to keep the closure consistent. There will be intermittent closures later on in the project but hopefully that will be resolved by the end of May which is the target for getting the road reopened.

We mailed a letter to the residents next to the NGI Pump Station off of Concordia letting them know that we would be in the area and if they have any questions to please get in touch with us.

A motion was made by Mr. Santo, supported by Mr. VanSyckel to receive and file the project updates.

Adopted: YEAS: 3
NAYS: 0

Ms. Miller updated that the 2023 Report to the MIDD Communities has been distributed to all of the MIDD communities and elected officials for the MIDD communities.

Mr. Baker presented the proposed 2023/2024 MIDD budget totaling \$94.9 million. The sewer charges begin July 1, 2023. A little over half of the budget is from GLWA for treatment costs. GLWA approved a 2.3% increase to OMID which results in a 2.6% increase to the MIDD. GLWA is not passing on unpaid Highland Park charges. The total budget is up 2.9%.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to approve the 2023/2024 Macomb Interceptor Drainage District (MIDD) budget and charges.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated on the Sewer Lining project. Right now at Garfield and 21 Mile Road, the Garfield Interceptor is being spiral wound. On the Southeast corner is the Macomb Township connection, and on the Northwest corner, we have one of the Shelby connections. Both of those pipes connecting the Garfield Interceptor have significant degradation. While we are already out there working in the area and have the traffic closures, we would like to line those degraded pipes with some cementitious lining. This will save costs, save time, and utilize existing traffic control. We received a proposal from SAK. Without having anything to compare it to, we sent out a full bid package to 7 pre-qualified lining contractors and only received one bid back from Municipal and Contractors Sealing Products Inc. for \$651,471. We decided to go with the proposal reformatted to match the bid form from SAK with a price of \$510,160.

A motion was made by Mr. Santo, supported by Mr. VanSyckel to approve the proposal from SAK Construction in the not to exceed amount of \$510,160 for the MA-S-2 & SY-S-3 Sewer Lining project.

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino updated on the Interceptor Inspection Program. We are utilizing laser profiling and sonar for inspection of the large interceptor. We need to see how much sediment is in there. During the last inspection from 2017, there was approximately 194,000 cubic feet of sediment. We are anticipating the number will be worse this time around.

A motion was made by Mr. VanSyckel, supported by Mr. Santo to award the Task 2 base bid amount of \$591,319.40 from the Taplin Group LLC to perform the work associated with the 2023 Interceptor Inspection Program.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$2,753,370.01 to the board for review and approval.

A motion was made by Mr. Santo, supported by Mr. VanSyckel 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. VanSyckel and supported by Mr. Santo.

Adopted: YEAS: 3
NAYS: 0

There being no further business, it was moved by Mr. Santo, supported by Mr. VanSyckel, that the meeting of the Macomb Interceptor Drain Board be adjourned.

Adopted: YEAS: 3
NAYS: 0

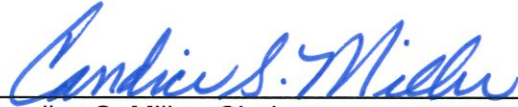
The meeting was adjourned at 11:48 A.M.



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 March 13, 2023 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: 3/13/23



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain Drainage District Board Members

CC: File

From: Stephen Downing, Construction & Maintenance Manager
Vincent Astorino, Operations & Flow Manager

Date: April 10, 2023

Subject: Construction Projects Status Updates for April 2023 Board Meeting

The following provides a status update for construction work performed within the Macomb Interceptor Drain Drainage District for the previous month.

Segment 5 Rehabilitation

Contractor: Oscar Renda

Engineering Consultant: FK Engineering

Project Description:

The Segment 5 reach of the Romeo Arm Interceptor is approximately 8,300 linear feet; it runs along 15 Mile Road starting at the ITC Corridor and extends east to approximately Hayes Road. The first 7,000 linear feet is 11-foot diameter non-reinforced concrete pipe, and the next 1,300 linear feet is 8-foot diameter steel reinforced concrete pipe. The rehabilitation consists of debris removal, cleaning, and inspection of the pipe's invert. Next, HOBAS pipe will be used to slip line 7,000 linear feet of the 11-foot diameter sewer and the 1,300 linear feet section of 8-foot diameter pipe will be coated with a corrosion resistant geo-polymer spray applied coating. To facilitate this work, a new control structure and access shaft is under construction in the ITC Corridor. The new control structure will provide the contractor access to the sewer to facilitate the work and will also serve as a dewatering pump station to draw down the upstream water level in the sewer.

Significant project tasks that have occurred over the past month:

1. Continued development, review, and approval of the required construction submittals.
2. Ground dewatering well maintenance and monitoring.
3. Continued spray-lining the 8-foot diameter interceptor (PCI-37) – 1300 Linear feet total
 - Approximately 900 linear feet is completed (5 to 7 o'clock)
 - Approximately 850 linear feet is completed (entire circumference of pipe)

- Approximately 65% completed
 - Weather & Maintenance Days significantly reduced work within the Interceptor this month.
 - The Engineering team performed an inspection of the spray-lining this month; no significant issues noted.
4. Continued construction of the CS-12 permanent structure, which includes:
 - Installation of the flume grating.
 - Installation of the guide rails for the stoplogs.
 - Continued the installation of the pump piping and appurtenances.
 5. Continued electrical work for the permanent CS-12 Pumps:
 - Conduit installation
 - Pulling cables for pumps
 - Installation of termination boxes

Construction Costs:

	Date	
Original Contract Amount	10/21/2020	\$28,807,500.00
Current Contract Amount	2/28/2023	\$31,702,534.88
Total Spent to Date	2/28/2023	\$15,684,428.56
Remaining Budget	2/28/2023	\$16,018,106.32



Figure 1 – CS-12 Structure – Perimeter Flume Grating Installed



Figure 2 - CS-12 Pumps – East Side of Structure

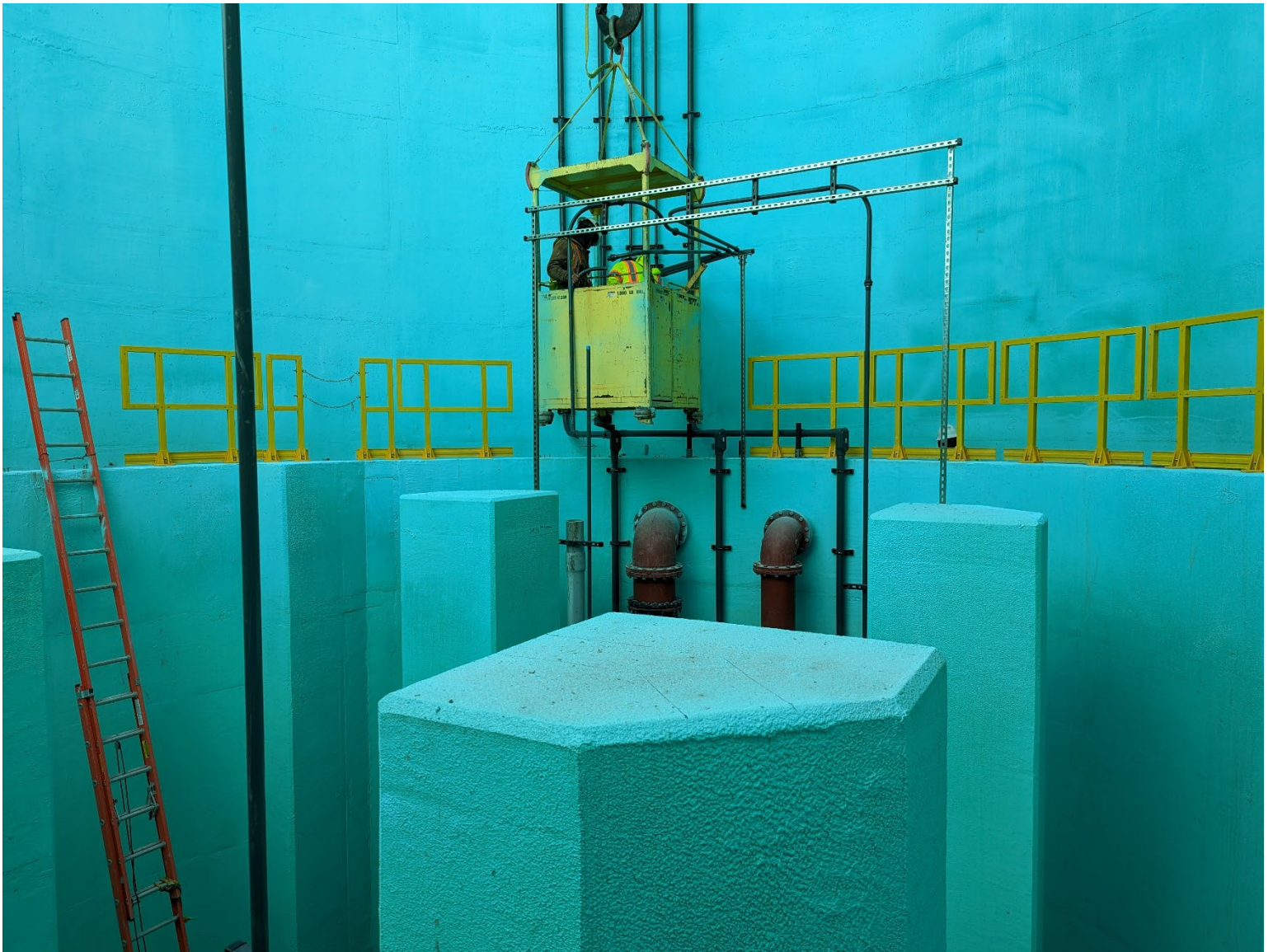


Figure 3 – CS-12 Electrical Conduit Installation



Figure 4 – Section of 8-foot Pipe that has been Spray-lined



Figure 5 - CS-12 Electrical Termination Boxes for Pumps (east side)



Figure 6 – CS-12 Electrical Termination Boxes for Pumps



Figure 7 – Verifying Dimensions for Partial Height Bulkhead near CS-12 to facilitate removal of the temporary flume

Segment 6 Rehabilitation

Contractor: Ric-Man Construction

Engineering Consultant: FK Engineering

Project Description:

The Segment 6 Rehab project includes the rehabilitation of these main elements:

1. Cleaning and slip-lining (Hobas) of the 5-foot diameter 15 Mile Interceptor from MH-01 at Garfield Road and 15 Mile to MH-04 approximately 2200 feet east along 15 Mile.
2. Cleaning and slip-lining (Hobas) the 1400 linear feet 11-foot diameter Romeo Arm Interceptor sewer between CS-3 on 15 Mile Road and CS-2 on Garfield north of 15 Mile Road.
3. Rehabilitation of the Meter Facility FR-S-1 on Garfield south of 15 Mile Road.
4. Rehabilitation and spray-lining of the CS-2 and CS-3 control structure facilities. These concrete structures have been damaged by H2S damage over time and need repair.
5. Installation of an air-jumper to be incorporated into the existing Biofilter facility. This is being done to address the high level of odor issues that have resulted over the years from the intersection of 15 Mile and Garfield.
6. Installation of a new gate control structure on the 15 Mile Interceptor. This will allow for the rehabilitation of the MH-01 structure and provide future storage options within that interceptor.

The project started in September 2021 and is scheduled to be completed in June 2023.

Significant project tasks that have occurred over the past month:

1. The Contractor continues to develop and submit the required submittals to the Engineer & Owner for review.
2. Performed an inspection of the damaged HOBAS which appears to be in the same condition as previously observed.
3. Completed installation of the 54-inch HOBAS.
4. Started preparation for grouting of the annular space around the 54-inch HOBAS.
5. Installed the platforms and stoplog guides in the CS-13 Structure.
6. Continued installation of the mechanical and electrical appurtenances for the CS-13 Gate.
7. Completed flow control testing for the cleaning and HOBAS lining work between CS-2 and CS-3.
8. Continued preparing CS-2 for access to clean and slip-line between CS-2 and CS-3.
9. Wet-weather has impacted the available working days in the Interceptor this month.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	5/1/2021	\$13,541,545.00
Change Order No. 1	8/1/2021	\$132,664.70
Total Contract Amount	3/31/2023	\$13,674,209.70
Total Spent to Date	3/31/2023	\$7,448,243.85
Remaining Budget	3/31/2023	\$6,225,965.85

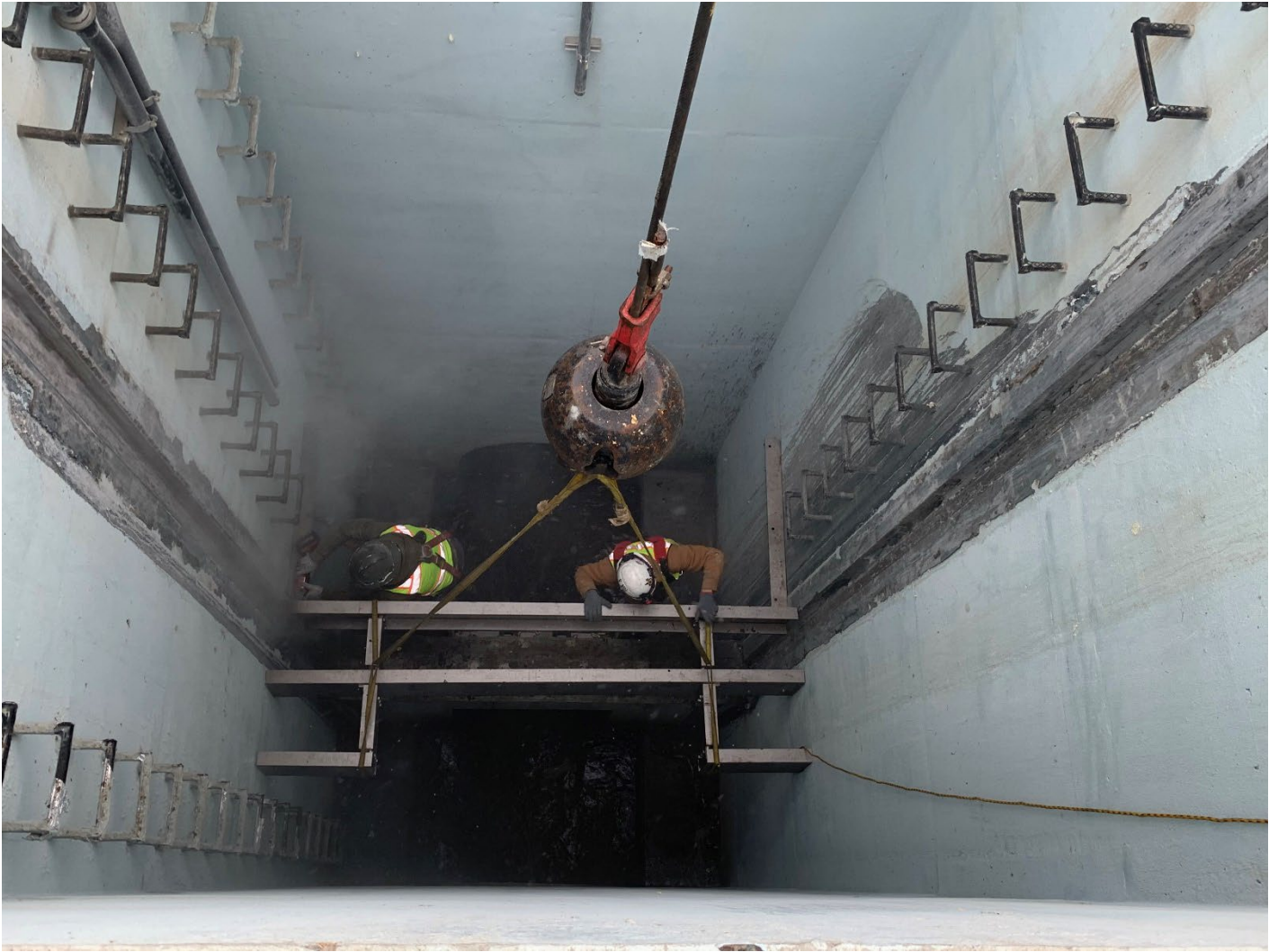


Figure 8 – CS-13 Platform Installation

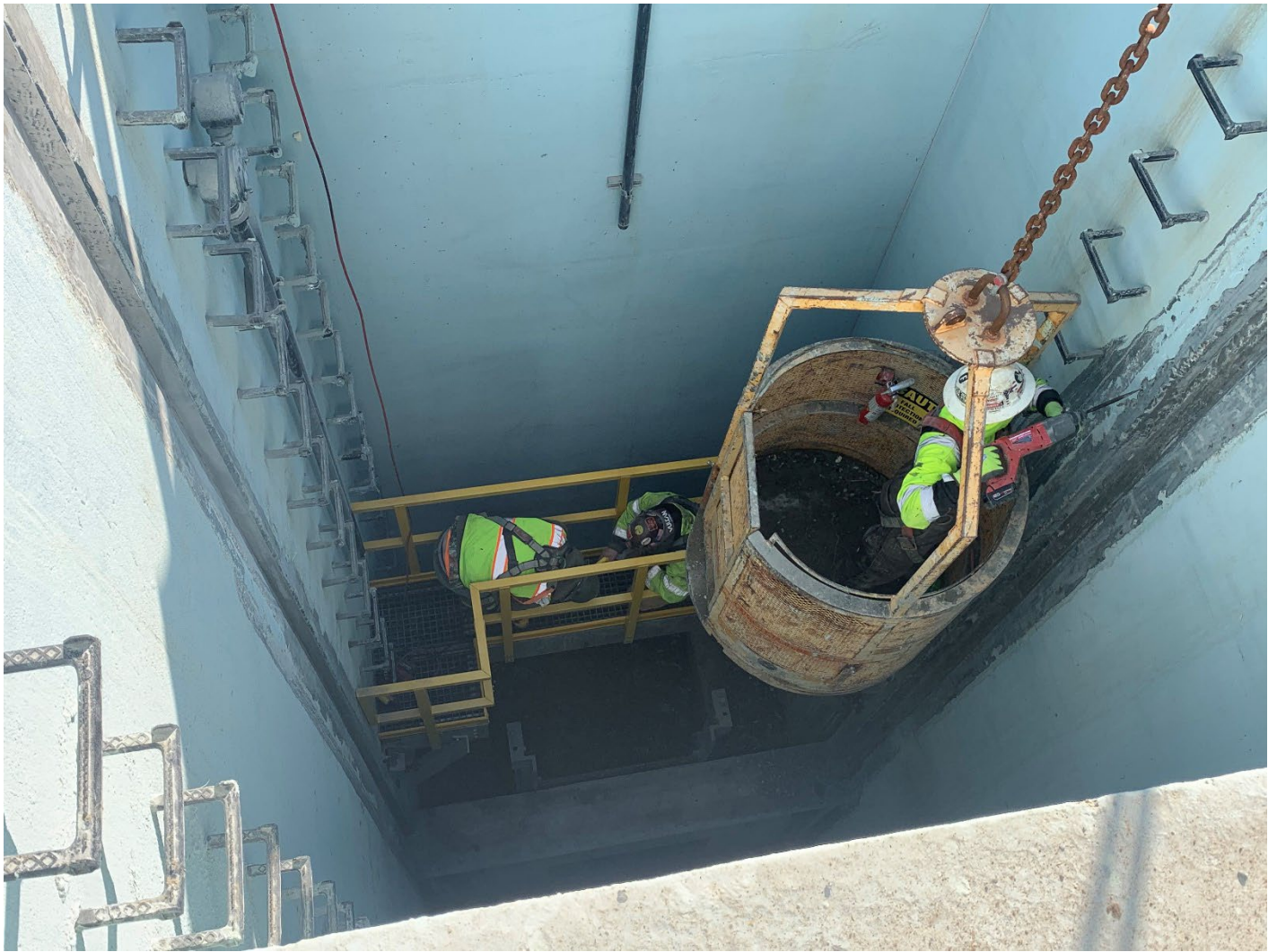


Figure 9 – CS-13 Platform Installation



Figure 10 – CS-13 Gate



Figure 11 – Temporary Weir at MH-01 for Annulus Grouting of 54-inch HOBAS

Garfield Interceptor Lining Project

Contractor: SAK Construction, LLC

Engineering Consultant: AEW

Project Description: MCPWO identified 755 feet of 7-foot diameter pipe within the Garfield Interceptor that has been aggressively attacked with Hydrogen Sulfide damage. This stretch of pipe was immediately labeled as an immediate repair and MCPWO underwent an analysis of options for repairs. The selected option was a Spiral Wound PVC liner which has been installed around the world but is the first time being installed within Michigan. This product has a guaranteed useful life of 50-years and is being treated as a pilot project within the MID system.

Significant project tasks that have occurred over the past month:

- MA-S-2 flow bypass setup and running as needed.
- As of 3/18/23, Spiral Wound lining has been completed.
- Contractor is currently setting up to begin the grouting process for the Spiral Wound. This will be done over 4 separate lifts.
- Working with the contractor regarding submittals and scheduling for the change order portion of the project.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	8/25/2022	\$2,394,385.00
Change Order No. 1	3/14/23	\$510,160.00
Total Contract Amount	3/14/23	\$2,904,545.00
Total Spent to Date	3/27/23	\$361,975.50
Remaining Budget	3/27/23	\$2,542,569.50

Interceptor Inspection Program

Contractor: Doetsch Environmental Services, Inc.

Engineering Consultant: Fishbeck

Project Description:

The 2020 sewer inspection program was awarded to Doetsch Environmental Services in November 2020. The inspection program includes inspection of approximately 26 miles of sanitary sewer, 360 manholes and other aspects of the sanitary sewage infrastructure across multiple drainage districts, including the MIDDD.

The MIDDD portion of the inspection program includes 101,335 linear feet (19.25 miles) of pipe ranging in diameter from 24" to 132" and 145 manhole structures. Additionally, inspection of 8 junction chambers and 8 Drop Shaft/Connecting sewers will be performed.

The inspection interval for the entire system is based on a 3-year cycle, where non-reinforced concrete pipe is inspected every 3 years and reinforced concrete pipe is inspected every 6 years. The 2020 inspection program is the largest ever performed by the Macomb County Public Works Office.

Significant project tasks that have occurred over the past month:

1. The Consultant is reviewing the data and preparing inspection reports. This is the final item to complete this project.
2. Doestch has finished all punch list work and the data is being confirmed by Fishbeck at this time. Waiting on them to submit their final invoice.

Construction Costs:

	Date (if applicable)	
Original Contract Amount	1/19/2021	\$280,034.00
Total Spent to Date	9/30/2022	\$184,971.35
Remaining Budget	9/30/2022	\$95,062.65

***This Table reflects the MIDDD costs only.**

Phase II Grouting

Contractor: Doetsch Environmental Services, Inc.

Engineering Consultant: AEW

Project Description:

The Phase II Grouting project was awarded to Doetsch Environmental during summer 2020. The work includes chemical grouting of the sewer and manholes where infiltration is present. The work is planned in all reaches of the system not included in the Segment 5 or portion of the Romeo Arm rehabilitated during the 2016 Interceptor Collapse. The main areas of work include the Romeo Arm along Garfield Road between 15 Mile and Clinton River Roads, the Garfield Interceptor between Clinton River and 21 Mile Roads, and the Lakeshore Interceptor between the Clintondale Pump Station at 15 Mile and Union Lake and Joy Boulevard in Harrison Township. The chemical grouting is aimed to stop all active infiltration within the system in advance of future rehabilitation and maintenance projects.

Significant project tasks that have occurred over the past month:

1. The crew has not worked since late July 2022.
2. The critical area grouting is complete, grouting operations will resume in non-critical areas when daily flow control operations allow.

Construction Costs:

	Date	
Original Contract Amount	6/24/2020	\$3,000,000.00
Change Order No. 1	3/14/2022	\$3,000,000.00
Current Contract Amount	3/31/2023	\$6,000,000.00
Total Spent to Date	3/31/2023	\$4,432,736.20
Remaining Budget	3/31/2023	\$1,567,263.80

Odor & Corrosion Control Facilities

Contractor: L. D’Agostini & Sons

Engineering Consultant: Tetra Tech

Project Description:

The Macomb Interceptor Drain completed a system-wide odor and corrosion study to evaluate the need for additional odor and corrosion control facilities to mitigate corrosion induced degradation of the interceptor and nuisance odors emitting from the interceptor near homes, businesses and public spaces. This effort is concentrated on extending the useful life of the interceptor and reducing nuisance odors emitting from the interceptor.

The study identified the need to construct three new odor and corrosion control facilities. Additionally, it was determined that the existing open-bed woodchip media type Fraser Bio-Filter would be more efficient and effective if converted to an enclosed bio-filter with an engineered media. The locations of the new facilities were determined through analysis and computer modeling using data that was collected in the field during the study phase. The facilities are intended to complement one another to reduce hydrogen sulfide induced corrosion.

The facilities are summarized in the Table below:

Facility	Location	Filter Type	Media Type
Fraser	15 Mile & Garfield	Bio-Filter	Engineered
Macomb Township	21 Mile & Garfield	Bio-Filter	Engineered
Clintondale Pump Station	Union Lake & Sorrentino	Carbon Filter	Carbon
NGI Pump Station	Gratiot & Concordia	Chemical Injection	Calcium Nitrate

The construction contract was awarded to L. D’Agostini & Sons in October of 2022 and the contractual Notice to Proceed was issued with an effective date of December 2, 2022. The number of days to achieve substantial completion is 630 days, resulting in a contractually required substantial completion date of August 23, 2024.

The construction work commenced in January of 2023 and is estimated to be completed by the summer of 2024. The estimated schedule for each site is summarized in the table below:

Facility	Location	Start Date	Finish Date
Fraser	15 Mile & Garfield	March – 2023	January – 2024
Macomb Township	21 Mile & Garfield	April – 2023	April – 2024
Clintondale Pump Station	Union Lake & Sorrentino	September – 2023	May – 2024
NGI Pump Station	Gratiot & Concordia	January – 2023	October – 2023

*The dates are based on the Construction schedule dated February 7, 2023

Significant project tasks that have occurred over the past month:

1. The Contractor is developing and submitting the required submittals to the Engineer & Owner for review.
2. The Contractor is working on obtaining the required permits from various agencies.
3. The gas line relocation was performed at the NGI Pump Station by the utility Owner.
4. The Contractor completed the installation of SESC measures at all project locations.
5. The Contractor mobilized the Clintondale PS site:
 - a. Layout and Excavation for equipment pad foundations
6. The Contractor started to mobilized the 21 Mile and Garfield and Fraser sites.

Construction Costs:

	Date	
Original Contract Amount	12/2/2022	\$11,799,678.78
Current Contract Amount	3/31/2023	\$11,799,678.78
Total Spent to Date	3/31/2023	\$362,717.93
Remaining Budget	3/31/2023	\$11,436,960.85



Figure 12 – Clintondale PS Foundation Work

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933
ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264



Figure 13 – Clintondale PS Foundation Excavation Work



Figure 14 – Clintondale PS Foundation Work

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933
ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264



Figure 15 – Clintondale PS Foundation Work



Figure 16 – 21 Mile & Garfield Temporary Construction Fence



NICKEL & SAPH, INC.

INSURANCE SINCE 1929

MAILING ADDRESS:

P.O. BOX 46907
MT. CLEMENS, MI 48046-6907

OFFICE ADDRESS:

44 MACOMB PLACE
MT. CLEMENS, MI 48043
(586) 463-4573 • (810) 765-8887
1-800-657-7373 • FAX: (586) 463-3135
www.nickelsaph.com

March 30, 2023

Mr. Brian Baker
Macomb County Intra-County Drains &
Drainage Districts
21777 Dunham Road
Clinton Twp., MI 48036

Dear Mr. Baker:

Please accept the following renewal proposal of certain liability coverages secured for the Intra-County drains and drainage districts.

Carrier: Argonaut Insurance Company
A. M. Best Rating: A- XIV, Stable. Admitted by the State of Michigan.

General Liability

Aggregate Limit: \$2,000,000
Occurrence Limit: \$1,000,000
Personal and Advertising Injury: \$1,000,000
Products/Completed Operations Aggregate: \$2,000,000
Deductible per Occurrence: \$100,000

Automobile Liability

Occurrence Limit: \$1,000,000
Deductible: \$100,000

Coverage is afforded for non-owned and rented autos only. No aggregate limitation applies.

Public Officials' Liability

Aggregate Limit: \$2,000,000
Per Wrongful Act Limit: \$1,000,000
Deductible each Wrongful Act: \$100,000

Claims Made Policy Form
Prior Acts/Retroactive Date: April 26, 2021

Excess Liability

Each Occurrence or Wrongful Act:	\$10,000,000
Annual Aggregate:	\$10,000,000

Premium

Annual Premium:	\$223,982
Optional Terrorism Risk Insurance:	\$5,863
Total Annual Premium:	\$229,845

The expiring annual premium was \$210,613. The renewal offering has increased \$19,232 or 9.13%. Last year, Terrorism Risk Insurance was included (optional coverage). Premium is not subject to annual audit.

The liability premium is based upon expenditures. Last year ('20/'21) an amount of \$72,638,830 was reported. This year, ('21/'22) an amount of \$79,527,750 was reported. The '21/'22 amount reflects an increase of \$6,903,920 or 9.51%.

Afforded liability limits are separate from each other. Payment of claims for one line of coverage will not affect or reduce the limits dedicated to the remaining lines of coverage. Please refer to policy forms for terms, definitions, conditions, and exclusions.

The deductibles apply to both the payment of claim adjustment expenses and third-party damage payments. Once the deductible is exhausted, the specific limit is dedicated to the payment of third-party damages alone; claim expenses are outside of the afforded limits. Argonaut requires the continued third-party administrator (TPA) relationship with the ASU Group or other approved TPA.

Argonaut has included their proprietary "360" endorsement which adds the following coverage enhancements to the General Liability: Blanket Additional Insured (when required by written contract, agreement, or permit). Broadcasting, Publishing, and Telecasting offenses are covered under Personal Injury. By separate endorsement, Limited Pollution Liability Coverage (extended for Property Damage under the General Liability policy – excludes Bodily Injury) is added for the reverse flow of sewage (endorsement GL-210 [07/00]).

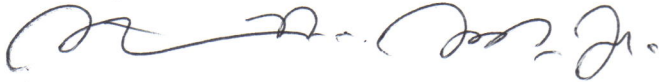
As with the expiring contract, Argonaut is offering: 1) a traditional underlying and excess policy format. No impact on the afforded coverages: same carriers (underlying and excess), same claims and underwriting staff, and same occurrence limit of liability - \$11,000,000. 2) Covered claims are subject to a \$100,000 deductible. 3) The Public Officials' liability coverage is offered on a Claims Made policy form in lieu of an Occurrence form. A retroactive date of April 26, 2021 will apply to covered claims. 4) The excess liability policy does not afford excess automobile liability coverage; the proposed policy affords \$1,000,000 Hired & Non-owned Automobile Liability. The coverage is afforded by way of a Combined (Bodily Injury and Property Damage) Single Limit formant (as before). The afforded limit is provided per Occurrence with no aggregate restrictions (again, same as before). 5) The combined aggregate limit of liability for covered General Liability and Public Officials' Liability claims is \$11,000,000.

In addition to securing the afforded liability coverages, we continue to monitor additions or improvements to the districts' physical assets. We have been advised that no measurable changes

occurred over the past year. You will recall that all property insurance is secure under Macomb County's property insurance policy.

Please review this information and contact me with any questions or concerns. I plan to attend the meeting on Monday, April 10, 2023. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen R. Saph, Jr.", written in a cursive style.

Stephen R. Saph, Jr., LIC

Agent

Enclosure

Chapter 20
Insurance Cost Breakdown
April 26, 2023 Renewal

DRAIN NAME	2023 PERCENT	PORTION OF INSURANCE
Eight Half Mile Relief	8.590%	\$ 19,743.69
Martin Sanitary Diversion	1.662%	\$ 3,820.02
MIDDD	89.748%	\$ 206,281.29

Insurance bill	\$ 229,845.00
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*** After an analysis of the 2022 expenses, other drain's portions were minimal and insignificant

MIDDD Costs	
Liability	\$ 206,281.29
Third-Party Administrator	\$ 1,500.00
Underground Infrastructure	<u>\$ 19,000.00</u>
MIDDD Total Cost	\$ 226,781.29



Insurance Proposal
for
Macomb County Intra County Drains and Drainage,
Michigan

EFFECTIVE DATE
04/26/2023 – 04/26/2024

Coverage Offered Through:



PRESENTED BY:



GENERAL LIABILITY

Occurrence

Standard Coverage	Limit
Bodily Injury/Property Damage	\$1,000,000
Personal Injury/Advertising Injury	\$1,000,000
Damages to Premises Rented to You	\$100,000
Employee Benefits (\$1,000 deductible applies)	\$1,000,000
General Aggregate	\$2,000,000
Products/Completed Operations Aggregate	\$2,000,000
GL Deductible Each Occurrence (Expenses included within retention)	\$100,000
Medical Payments	Excluded
Retroactive Date	N/A

Optional Coverages	Limit	Deductible
Unmanned Aircraft Under 25 Pounds – GL-230	\$25,000	\$100,000

PUBLIC OFFICIALS

Claims Made

Standard Coverage	Limit
Per Wrongful Act	\$1,000,000
Annual Aggregate	\$2,000,000
Employment Related Wrongful Acts	Excluded
Deductible Each Wrongful Act (Expenses included within retention)	\$100,000
Retroactive Date	4/26/2021

Additional Coverages	Limit	Deductible
Non-Monetary Defense Limit	\$10,000	\$100,000
Non-Monetary Defense Annual Aggregate	\$50,000	

AUTOMOBILE LIABILITY

Standard Coverage

	Limit	Symbol
Liability Limit (CSL)	\$1,000,000	8,9
Deductible	\$100,000 Per Accident	
Uninsured Motorist	N/A	
Underinsured Motorist	N/A	
PIP/No Fault	N/A	
Medical Payments	N/A Each Insured N/A Aggregate	
Hired & Non-Owned		HNO Only
Total Units Quoted		0

EXCESS LIABILITY

Standard Coverage

Limit

Each Occurrence, Offense, Accident or Wrongful Act	\$10,000,000
Annual Aggregate	\$10,000,000

Underlying Insurance

General Liability	\$1,000,000
Public Officials Liability	\$1,000,000

The following is a price breakdown for this quotation:

Coverage	Subtotal	TRIA	Total Premium
General Liability	\$156,904	\$4,707	\$161,611
Public Officials Liability	\$28,436	N/A	\$28,436
Auto Liability	\$100	N/A	\$100
Excess Liability	\$38,542	\$1,156	\$39,698
Total	\$223,982	\$5,863	\$229,845

Risk Control Services Proposal For Macomb County Intra County Drains and Drainage

The Breadon Group in partnership with Trident Public Risk Solutions' Risk Control division works to provide our customers with cost-effective, Risk-Management-driven solutions to minimize exposure to losses. Since our business focus is on the public sector, we have the unique background to work with our customers, bringing in a wealth of experience in risk control for public entities throughout the country.

Our staff has extensive expertise in providing Risk Control services to our public entity customers. In addition, we have also assembled a network of industry experts and partners to assist in the delivery of services and specialized consulting. Coordinated through our corporate offices, this broad-based team can deliver timely world-class Risk Control services that are targeted to achieve effective results.

Trident Risk Control Website

Trident Risk Control offers an easy-to-navigate, fully searchable website with an array of resources to assist you in your program development and implementation. Resources available on the site include:

- **White papers** on topics such as:
 - Law Enforcement Liability
 - Playground Safety
 - Self-Inspection Check Lists
 - Management Operational Guides
 - Catastrophe Planning
 - Many others
- **Important links** to web resources
- Information on our **FREE web-based training** classes, with over 200 courses available
- **Partner resources**
- **Ask-the-Risk -Manager** portal with 24-hour turnaround time for risk control questions
- **E-Newsletter** archive

Visit the website at <https://www.argolimited.com/pages/argo-group-home/our-brands/trident/risk-control>

The Breadon Group in partnership with Trident Risk Control also makes a wide variety of services available to you to assist in the development of your risk management program. The following services can be accessed by a request to your agent or through contacting us at: asktheriskmanager@tridentpublicrisk.com.

Risk Management Consultation

If you have risk management questions, Trident's Risk Control Group has the answers, tools, or resources that you need. Sending us a question through our [Ask-the-Risk Manager portal](#) on our website or emailing us directly at asktheriskmanager@tridentpublicrisk.com. Our **24-Hour pledge** to you is to provide you help within one business day – but it is usually a lot faster. We are here to help!

Risk Control e-Newsletters and Special Bulletins

Trident Risk Control produces monthly newsletters with topics of interest and timely special bulletins for the many diverse departments at your organization. Subscribe and pass on to others, or supply us with a list of employee emails and we'll add everyone on your list to the distribution.

Model Law Enforcement and Detention Center Policies and Procedures

Trident partners with world-class law enforcement consultant [OSS Law Enforcement Advisors](#) to provide free model policies for use by law enforcement and detention center representatives. When the Supreme Court provides new rulings that affect law enforcement and detention center operations, your policies will need to be altered to comply with the new rulings—and Trident can provide them.

Discounted Property Appraisals

Having correct property valuations is important to any risk management program to ensure that, if disaster strikes, a structure to be replaced is valued properly. We offer discounted property appraisals for the locations that you select through our partner, [HCA Asset Management](#). We will coordinate with HCA to ensure that the appraisal services are delivered in a timely manner.

Systems Optimization and Maintenance

Saving money, reducing maintenance, and reducing equipment risk factors are important considerations for any organization. Through our partner, [Hartford Steam Boiler](#), we make available a number of tools, including maintenance suggestions and optimization calculators, to your maintenance and engineering staff. The tools can be accessed through our Partner Resources Portal on our website.

Online Training

Sometimes it is difficult to locate the specialized training that you need for your organization's staff. Trident Risk Control Services has over [200 training courses](#) available online to help you meet that need. Our partner, LocalGovU, has worked with us to develop topics specifically for governmental entities.

Loss Analysis: Understanding how to efficiently deploy your loss prevention efforts includes looking at elements such as number of claims, types, and department(s) in which they occur. Trident's Loss Analysis will provide a five-year look back, breaking down the losses to give you a clear picture of not only where they are occurring, but also causal factors. Simply contact your agent, Risk Control representative, or request a copy through: asktheriskmanager@tridentinsurance.net.

Program Development: One of your entity's more challenging tasks to undertake is creating or modifying a program. We can help through sample programs and sound advice on how to implement those programs across the diverse departments with which you work.

GENERAL CONDITIONS

This proposal is based on information provided to The Breadon Group, LLC by the Agent.

The quotation in this proposal does not necessarily match the coverages or limits requested in the bid specifications and/or application. No warranty is made or implied with respect to the total compliance to bid specifications or applications.

Each individual policy contains the actual terms, conditions and exclusions. This proposal highlights certain features and benefits of the Trident program.

ADDITIONAL INFORMATION: REQUIRED AT BINDING

1. Signed TRIA Form

POLICYHOLDER DISCLOSURE NOTICE OF TERRORISM INSURANCE COVERAGE

You are hereby notified that under the Terrorism Risk Insurance Act, as amended, you have a right to purchase insurance coverage for losses resulting from acts of terrorism. As *defined in Section 102(1) of the Act*: The term "act of terrorism" means any act or acts that are certified by the Secretary of the Treasury - in consultation with the Secretary of Homeland Security, and the Attorney General of the United States - to be an act of terrorism; to be a violent act or an act that is dangerous to human life, property, or infrastructure; to have resulted in damage within the United States, or outside the United States in the case of certain air carriers or vessels or the premises of a United States mission; and to have been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

YOU SHOULD KNOW THAT WHERE COVERAGE IS PROVIDED BY THIS POLICY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM, SUCH LOSSES MAY BE PARTIALLY REIMBURSED BY THE UNITED STATES GOVERNMENT UNDER A FORMULA ESTABLISHED BY FEDERAL LAW. HOWEVER, YOUR POLICY MAY CONTAIN OTHER EXCLUSIONS WHICH MIGHT AFFECT YOUR COVERAGE, SUCH AS AN EXCLUSION FOR NUCLEAR EVENTS. UNDER THE FORMULA, THE UNITED STATES GOVERNMENT GENERALLY REIMBURSES 80% OF COVERED TERRORISM LOSSES EXCEEDING THE STATUTORILY ESTABLISHED DEDUCTIBLE PAID BY THE INSURANCE COMPANY PROVIDING THE COVERAGE. THE PREMIUM CHARGED FOR THIS COVERAGE IS PROVIDED BELOW AND DOES NOT INCLUDE ANY CHARGES FOR THE PORTION OF LOSS COVERED BY THE FEDERAL GOVERNMENT UNDER THE ACT.

YOU SHOULD ALSO KNOW THAT THE TERRORISM RISK INSURANCE ACT, AS AMENDED, CONTAINS A \$100 BILLION CAP THAT LIMITS U.S. GOVERNMENT REIMBURSEMENT AS WELL AS INSURERS' LIABILITY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM WHEN THE AMOUNT OF SUCH LOSSES IN ANY ONE CALENDAR YEAR EXCEEDS \$100 BILLION. IF THE AGGREGATE INSURED LOSSES FOR ALL INSURERS EXCEED \$100 BILLION, YOUR COVERAGE MAY BE REDUCED.

The prospective premium for certified acts of terrorism coverage is **\$5,863**.

Please tell your insurance agent or broker whether you accept or reject certified acts of terrorism coverage.

Acceptance or Rejection of Terrorism Insurance Coverage

	Accept - I hereby elect to purchase terrorism coverage.
	Reject - I hereby decline to purchase terrorism coverage.

Policyholder/Applicant's Signature

Print Name

Date

MACOMB INTERCEPTOR DRAINAGE DISTRICT
03/07/2023 - 04/04/2023

<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>
Macomb Interceptor Drain	Chapter 20 Chesterfield – 7.4212% Clinton – 21.2122% Fraser – 4.1667% Harrison – 6.3461% Lenox – 1.1179% Macomb – 14.0617% New Haven – 0.8255% Shelby – 9.7911% Sterling Heights – 30.6812% Utica – 1.6170% Washington – 2.7596%	Astorino	ADS Environmental SVCS	\$ 14,115.00	Invoice #35414-0521 A-R1 - 06.26.21	Meter Maintenance 05.01.21 - 05.31.21	\$ 308,135.00
		Astorino	ADS Environmental SVCS	\$ 10,200.00	Invoice #35414-1021A - 11.20.21	Meter Maintenance 10.01.21 - 10.31.21	\$ 255,585.00
		Astorino	City of Mt. Clemens	\$ 13,001.45	Invoice #28005300 - 03.07.23	Monthly Utilities - January 2023	
		Astorino	Department of Roads	\$ 1,043.18	Invoice #302349 - 01.27.23	Fleet Fuel - December 2022	
		Astorino	Fishbeck	\$ 26,895.50	Invoice #416818 - 11.02.22	WWMP through 10.29.23 - FINAL	\$ 230,439.99
		Astorino	Fishbeck	\$ 1,582.50	Invoice #421289 - 03.22.23	As-Needed Services - Flow Analysis	\$ 70,345.00
		Downing	FK Engineering Associates	\$ 91,502.70	Invoice #20-152-027 - 03.09.23	Segment 5 CCA - 02.05.23 - 03.04.23	\$ (102,045.94)
		Downing	FK Engineering Associates	\$ 80,455.84	Invoice #20-058-033 - 03.09.23	Segment 6 CCA - 02.05.23 - 03.04.23	\$ 407,003.32
		Astorino	FK Engineering Associates	\$ 12,435.17	Invoice #22-126-004 - 03.13.23	Critical Areas Inspection Program	\$ 47,709.97
		Baker	KHVPF	\$ 1,190.00	Invoice #49433 - 03.01.23	Contract Review	
		Downing	L D'Agostini & Sons, Inc.	\$ 326,446.13	Invoice #WWS-2022-001 App 1 - 03.28.23	Odor & Corrosion Improvements	\$ 11,436,960.85
		Downing	Meadowbrook Insurance	\$ 50,440.00	Invoice #11749 - 03.07.23	OCIP Policy - Safety Person (Quarterly)	
		Downing	Meadowbrook Insurance	\$ 904.00	Invoice #11905 - 03.30.23	Builders Risk Extension to 07.12.23 - 21/Garfield	
		Astorino	People Driven Technology	\$ 1,399.65	Invoice #INV4098 - 03.07.23	SCADA VEEAM Support Renewal	
		Astorino	People Driven Technology	\$ 5,568.05	Invoice #INV4114 - 03.07.23	SCADA VMWare Software	
		Downing	Ric-Man Construction	\$ 55,815.63	Invoice #WO21026 Est #19 - 04.03.23	Segment 6 Services 02.21.23 - 03.20.23	\$ 6,225,965.85
		Astorino	SAK Construction	\$ 277,830.00	Invoice #WWS-2022-006 APP2 - 03.30.23	Garfield Interceptor Lining Project thru 03.27.23	\$ 2,542,569.50
		Astorino	Specter Instruments	\$ 2,160.00	Invoice #X810E4C15-2023228 - 12.01.22	WIN-911 Software Renewal	
		Astorino	Verizon	\$ 1,299.88	Invoice #9928446113 - 02.23.23	Monthly Cellular - 01.24.23 - 02.23.23 (Eq. Fund)	
		Astorino	Verizon	\$ 1,768.49	Invoice #9928446113 - 02.23.23	Monthly Cellular - 01.24.23 - 02.23.23	
<u>CPS</u>	Astorino	Clinton Township Treasurer	\$ 3,039.45	Invoice #23-151 - 03.07.23	Monthly Water - 01.24.23 - 02.28.23		
	Astorino	Colville Electric Co., LLC	\$ 1,305.60	Invoice #23132 - 03.18.23	VFD Timing Relay Replacements		
	Astorino	DTE Energy	\$ 21,282.85	Invoice #23-146 - 03.01.23	Monthly Electric - 02.02.23 - 03.01.23		
	Astorino	HESCO	\$ 35,009.50	Invoice #2314192 - 02.08.23	Gates & Valves		
	Astorino	Spencer Oil Company	\$ 4,390.46	Invoice #30638158 - 02.24.23	Diesel Fuel		
<u>CS-3</u>	Astorino	HESCO	\$ 39,092.64	Invoice #2314252 - 03.13.23	Hydraulic Cylinder Installation - Spare		
<u>METERS</u>	Astorino	Grainger	\$ 691.04	Invoice #9637118051 - 03.13.23	Batteries		
	Astorino	Motor City Electric Technologies	\$ 17,126.00	Invoice #922036 - 03.17.23	PLC Relocation/Upgrades		
<u>NGI</u>	Astorino	DTE Energy	\$ 1,154.21	Invoice #23-134 - 03.02.23	Monthly Electric - 01.31.23 - 03.01.23		
	Astorino	Fishbeck	\$ 4,704.00	Invoice #421284 - 03.17.23	Inspection Program through 03.17.23	\$ 55,296.63	
	Astorino	Kennedy Industries	\$ 977.50	Invoice #635435 - 03.07.23	Power Failure - Emergency Repair		
	Astorino	SEMCO Energy	\$ 1,080.52	Invoice #23-159 - 03.06.23	Monthly Gas - 02.02.23 - 03.06.23 - Power Failure		
<u>OMID</u>	Downing	Oakland County Treasurer	\$ 4,364,430.08	Invoice #C1017091 - 03.31.23	Sewer Disposal - March 2023		
	Astorino	People Driven Technology	\$ 906.43	Invoice #INV4114 - 03.07.23	SCADA VMWare Software		
Total				\$ 5,471,243.45			

Budget to Actual
MIDDD
As of Mar 31, 2023 = 75%

DESCRIPTION	2023 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
GLWA-OMID	48,014,249		36,014,324	11,999,925	75.0%
OMID O&M	4,358,913		3,269,185	1,089,728	75.0%
Settlement	100,000			100,000	0.0%
Reimbursements	225,000		518,047	(293,047)	230.2%
PY Revenue-Fund Balance	16,738,220			16,738,220	0.0%
Reimb-Local Communities	17,159,080		11,439,387	5,719,693	66.7%
State Grant-ARPA Seg 5 & 6	-		16,928,642	-	100.0%
COVID Grant	-		1,007,498		100.0%
Interest	50,000		348,185	(298,185)	696.4%
Total Revenue Accounts	86,645,462	-	69,525,267	35,056,335	80.2%
EXPENSE ACCOUNTS					
GLWA-OMID	48,014,249		36,014,324	11,999,925	75.0%
OMID O&M	4,358,913		3,269,185	1,089,728	75.0%
Public Works Wastewater Disposal Division	1,889,760		749,032	1,140,728	39.6%
Office Operations/Insurance	343,100		58,922	284,178	17.2%
SCADA	461,990		133,106	328,884	28.8%
Engineering					
Replenish reserve from CPS refunding	618,680			618,680	0.0%
Drop shaft rehab Design	1,600,000		177,965	1,422,035	11.1%
METCO As Needed	75,000		62,217	12,783	83.0%
Data Review-Aquasight	58,000		18,000	40,000	31.0%
Annual Meter Dye Testing	50,000		35,650	14,350	71.3%
As Needed Engineering	250,000		49,609	200,391	19.8%
Odor and Corrosion Construction/CCA	3,280,000		577,210	2,702,790	17.6%
GLWA Assistance	30,000		5,843	24,157	19.5%
General Construction/Engineering Contingency-All Projects	450,000			450,000	0.0%
Garfield Interceptor Lining Pilot	-		58,086	(58,086)	100.0%
As Needed Applied Science	25,000		26,181	(1,181)	104.7%
As Needed Metco	60,000		26,140	33,860	43.6%
Level Sensors/Pressure/H2S-Meters	214,200			214,200	0.0%
Odor and Control-Construction	7,010,000		199,223	6,810,777	2.8%
Segment 6 Construction Administration	685,530		832,332	(146,802)	121.4%
Segment 6 Construction/CCA from reserve	-		4,168,258	(4,168,258)	100.0%
Wastewater Master Plan from reserve	-		59,000	(59,000)	100.0%
SY-S-1, SY-S-2, & WA-S-1 Meter Const Admin/Rehab	927,790		17,090	910,700	1.8%
Segment 5 Construction Admin	972,500		786,787	185,713	80.9%
COVID Grant	-		1,007,498	(1,007,498)	100.0%
Segment 5 Construction from reserve	611,240		2,735,690	(2,124,450)	447.6%
Legal Services	75,000		13,554	61,446	18.1%
Clintondale PS O&M	870,000		392,533	477,467	45.1%
NGI O&M	307,500		94,197	213,303	30.6%
Meters O&M	228,400		61,539	166,861	26.9%
Control Structures and Pump Station O&M	281,370		91,274	190,096	32.4%
Biofilter O&M	25,500		8,121	17,379	31.8%
Contribution Life Cycle Reserve	184,300			184,300	0.0%
Interceptor O&M	9,898,300		564,398	9,333,902	5.7%
Stormwater Pump Stations	131,000		98,250	32,750	75.0%
Sewage Disposal Charges - Mt. Clemens	200,000		132,938	67,062	66.5%
Debt Service - Revenue Bonds	2,458,140		1,843,605	614,535	75.0%
Total Expense Accounts	86,645,462	-	54,367,757	32,277,706	62.7%

	O&M Balance 6/30/2022	O&M	Total 3/31/2023
Cash - Operating	34,922,137	15,157,511	50,079,648
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		69,525,267	69,525,267
Expenditures		54,367,757	54,367,757
			0
Equity*	34,922,137		50,079,648

Detail of 2022 Equity*

Reserve at 6/30/2022	10,665,604
Construction/ Engineering Reserve	23,088,928
Life Cycle Reserve	1,167,605