

EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
MARCH 11, 2024
10:15 A.M.
AGENDA

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

**Call in Number: 1-470-499-2258
Access Code: 415 487 641**

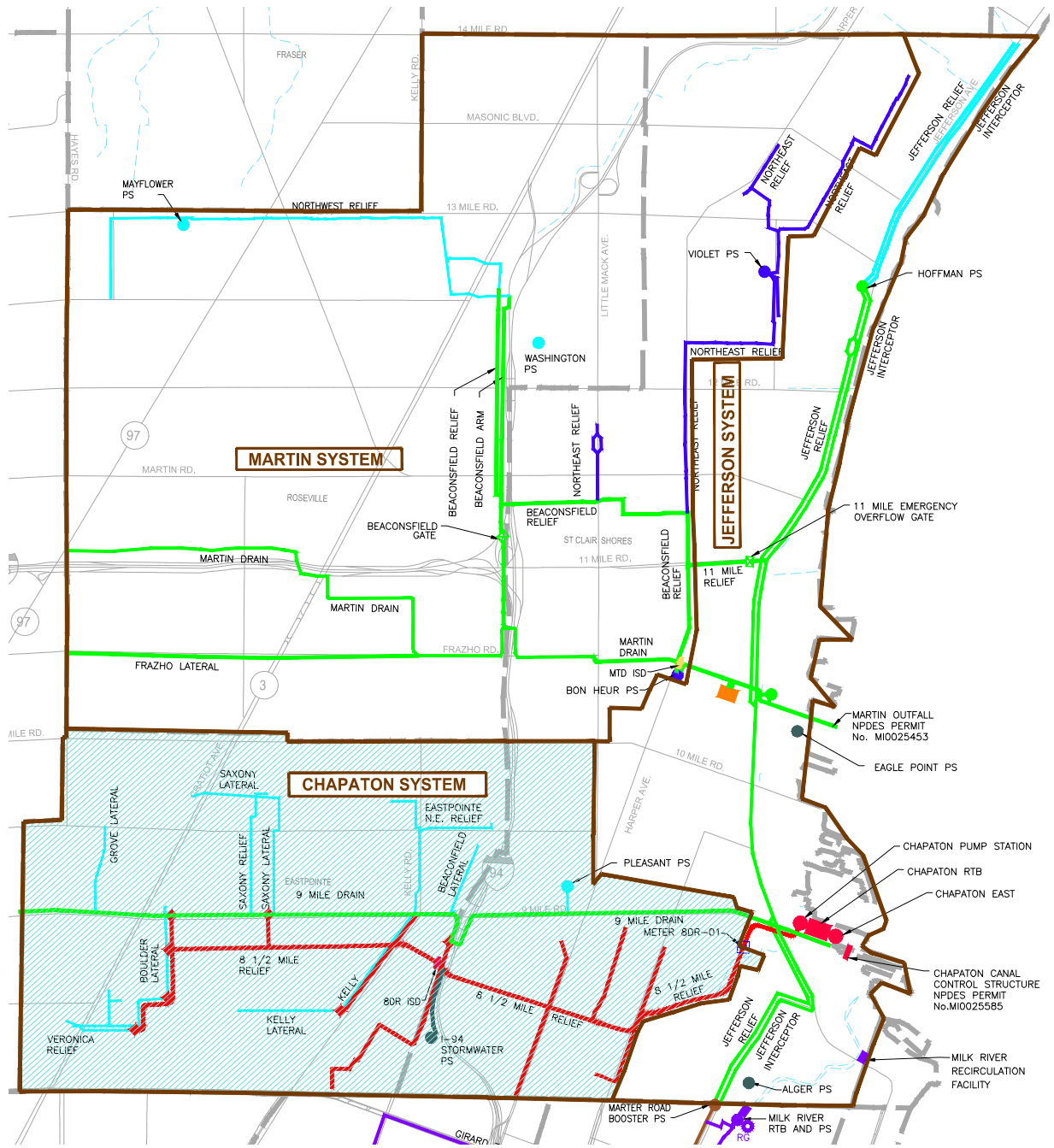
| | Page |
|---|------|
| 1. Call of meeting to order and roll call | |
| 2. Approval of Agenda for March 11, 2024 | |
| 3. Approval of Minutes for February 12, 2024 | 3 |
| 4. Public Participation | |
| 5. Project & Operational Updates – Vince Astorino | 6 |
| 6. Chapaton Pump Station Ventilation Improvements – Vince Astorino | 35 |
| Motion: To award the bid for Chapaton Pump Station Ventilation Improvements to A/C Building System, Inc. for \$473,000. | |
| 7. In-System Storage Project Insurance Extension - Stephen Downing | 43 |
| Motion: To approve a 9-month extension of the Owner-Controlled Insurance Program (OCIP) Builder's Risk and Pollution policies with Meadowbrook Insurance Agency for the In-System Storage project based on the district's final pro-rata share of the \$66,418 premium. | |
| 8. Consideration for approval of invoices (see attached) | 45 |
| 9. Financial Report – Bruce Manning | 46 |
| 10. 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.

CHAPATON 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
- RTB
- GRAVITY INTERCEPTOR
- IN-SYSTEM STORAGE DEVICE
- OVERFLOW POINT
- LEVEL SENSOR
- RAIN GAUGE
- FLOW METER

PROJECT NO.

181053

3.6

An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on February 12, 2024, at 10:26 A.M.

PRESENT: Candice S. Miller, Chair
Vince Viviano, Member

EXCUSED: Sarah Lucido, Member

PRESENT VIA TELECONFERENCE: Jess Johnston, Sterling Heights DPW

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; Jennifer Jozwiak, Account Specialist; Don VanSyckel, Board of Commissioners

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

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of January 8, 2024, were presented. A motion was made by Mr. Viviano, 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. Astorino said that there was one wet weather event for the past month on January 26th. There was 1.37 inches of rainfall, and the treated discharge volume was 63.9 MG. Overall, there were no major issues, and everything operated as designed.

Mr. Astorino updated on the Chapaton In-System Storage project and said they are making good progress. He showed photos of the pipe cut opening, the forms being poured, and where the bladder will be placed. He showed photos of the inside of the building and the electrical work taking place. DTE came out and restored the power line.

Mr. Astorino updated on the Chapaton Canal Rehabilitation project saying that there has been a bit of a slow down due to weather, but the contractor continues to work onsite. He showed photos and drone shots of the work taking place on the outfall structure.

Mr. Astorino said that the 2023 Interceptor Inspection program is mostly complete. All files have been uploaded to Sewer AI. The critical area located on Harper Avenue has already been addressed by Doetsch.

Mr. Astorino stated that we are still waiting on submittals for the Chapaton Electrical upgrades.

Mr. Astorino presented a summary report of the 2023 discharges for the Chapaton basin.

A motion was made by Mr. Viviano, supported by Ms. Miller to receive and file the project updates.

Adopted: YEAS: 2
NAYS: 0

Mr. Astorino presented an amendment for the In-System Storage costs. The construction contract with Weiss is approximately 4 months behind their original schedule. We have notified Weiss Construction making them aware that the Owner intends to pursue liquidated damages as a result of the increased costs, including construction contract administration.

A motion was made by Mr. Viviano, supported by Ms. Miller to approve the construction contract administration amendment for \$129,009 with Tetra Tech, Inc. for the In-System Storage project.

Adopted: YEAS: 2
NAYS: 0

Mr. Astorino presented a Change Order on the Chapaton Canal Rehabilitation project. MCPWO has worked collaboratively with Z Contractors throughout the progress of the project. Since construction has commenced, we have found that there are some value-adds that have prompted some work change directives. We anticipate future cost reductions to offset the cost of these work change directives.

A motion was made by Mr. Viviano, supported by Ms. Miller to approve Change Order #1 for \$300,969.50 with Z Contractors Inc. for listed work change directives on the Chapaton Canal Rehabilitation project.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$865,281.26 to the board for review and approval.

A motion was made by Mr. Viviano, 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. Viviano and supported by Ms. Miller.

Adopted: YEAS: 2
NAYS: 0

There being no further business, it was moved by Mr. Viviano, supported by Ms. Miller, that the meeting of the Eight and One-Half Mile Relief Drain Board be adjourned.

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 10:52 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 February 12, 2024, 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: 02/12/24



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

CC: File

From: Vincent Astorino, Operations Director

Date: March 11, 2024

Subject: Construction Projects Status Updates for the March 2024 Board Meeting

The following provides a status update for construction work completed within the 8 ½ Mile Relief Drain Drainage District (8MRDDD) for the previous month.

Wet Weather Operations

No wet weather events for the past month.

Chapaton In-System Storage Project

Contractor: Weiss Construction

Engineering Consultant: Tetra Tech

Project Description:

The primary focus of the project is the construction of an access shaft and installation of the In-System Storage Device at Beaconsfield and Oak in Eastpointe. This project will achieve an additional 3.5 million gallons of storage within the 8.5 Mile Relief tunnel.

Significant project tasks that have occurred over the past month:

1. Submittals are being received and processed by the engineering team.
2. Construction Activities per Update Period:
 - Continued removing construction scrap, spoils, and unused materials stored along Beaconsfield greenbelt.
 - Maintained secured work site with swing gates and privacy fence screening at construction sites.
 - Continued Beaconsfield site monitoring and documentation during construction as required.
 - Poured in place new concrete pad for the odor control equipment located in the east greenbelt of Beaconsfield Road as designed.

- Assembled ventilation pipe stacks and dampers required for odor control and access vault ventilation as designed per plan.
- Layout placement of anchors and steel plates for the installation of the new inflatable rubber sewer gate inside the 11ft tunnel at Beaconsfield as required.
- Cored holes inside the existing 11.5FT tunnel concrete for proposed anchors to secure inflatable sewer gate as required.
- Set inflatable sewer gate anchors with epoxy and installed lower membrane mounting plates as designed.
- Installed upper and lower inflatable sewer gate membranes with required mounting plates and hardware per manufactures specifications.
- Excavated and placed new storm manholes and pipe under Beaconsfield Road as planned.
- Placed approved backfill sand while performing compaction and density testing within specified incremental backfill heights as required.
- Utility contractor removed temporary data lines through easement and rerouted to new telephone poles per design.
- Painted the interior of the Control Building at Beaconsfield as required.
- Poured in place concrete duct bank for the electrical conduit to generator pad and required areas as designed.
- Continued to install process equipment, electric panels, and displays in the Control Building as proposed.

3. Construction Look Ahead:

- Continue cleanup of construction scrap, spoils, and materials along Beaconsfield greenbelt.
- Continue Beaconsfield site security, monitoring, and documentation.
- Finish odor control carbon canister and equipment installation at Beaconsfield greenbelt.
- Continue to install process and electrical equipment, controls, and displays at the Beaconsfield Control building as required.
- Proceed with startup and commissioning of the inflatable sewer gate inside the 11.5ft tunnel.
- Finish back-fill and grade accordingly for the re-paving of Beaconsfield Road.
- Place concrete walkways to the inflatable sewer dam in the east and west access vaults.
- Place stone and grade accordingly for access drive at the Gaukler worksite as proposed.
- Work on the Control building exterior finishes and prepare to install the floor coating.
- Remove temporary poles in easement per agreement with property owner.

Construction Costs:

| | Date (if applicable) | Amount |
|--------------------------|----------------------|----------------|
| Original Contract Amount | | \$9,673,200.00 |
| Change Order #1 | 9/15/22 | \$269,666.49 |
| Revised Contract Amount | | \$9,942,866.49 |
| Total Spent to Date | Pay Apps. #1 – 22 | \$7,472,418.72 |
| Remaining Budget | | \$2,470,447.77 |

Figure 1 – Placing Conc. Pad for Odor Control Equipment @ Beaconsfield Rd.



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Figure 2 – Concrete Elect. Duct Bank w/Red Dye @ Beaconsfield Rd.



Figure 3 – Installing Conduit for Controls to Access Vault @ Beaconsfield Rd.



Figure 4 – Installing Process Equipment for Inflatable Dam @ Control Building



Figure 5 – Setting Inflatable Dam Anchor Template @ Beaconsfield 11.5 FT Tunnel



Figure 6 – Coring Conc. for Inflatable Dam Anchors @ Beaconsfield 11.5 FT Tunnel



Figure 7 – Anchors and Inflatable Dam Mounting Plates @ Beaconsfield 11.5 FT Tunnel



Figure 8 – Hoisting Membranes into 11.5 FT Tunnel @ Beaconsfield Rd.



Figure 9 – Placing Lower Inflatable Dam Membrane @ Beaconsfield 11.5 FT

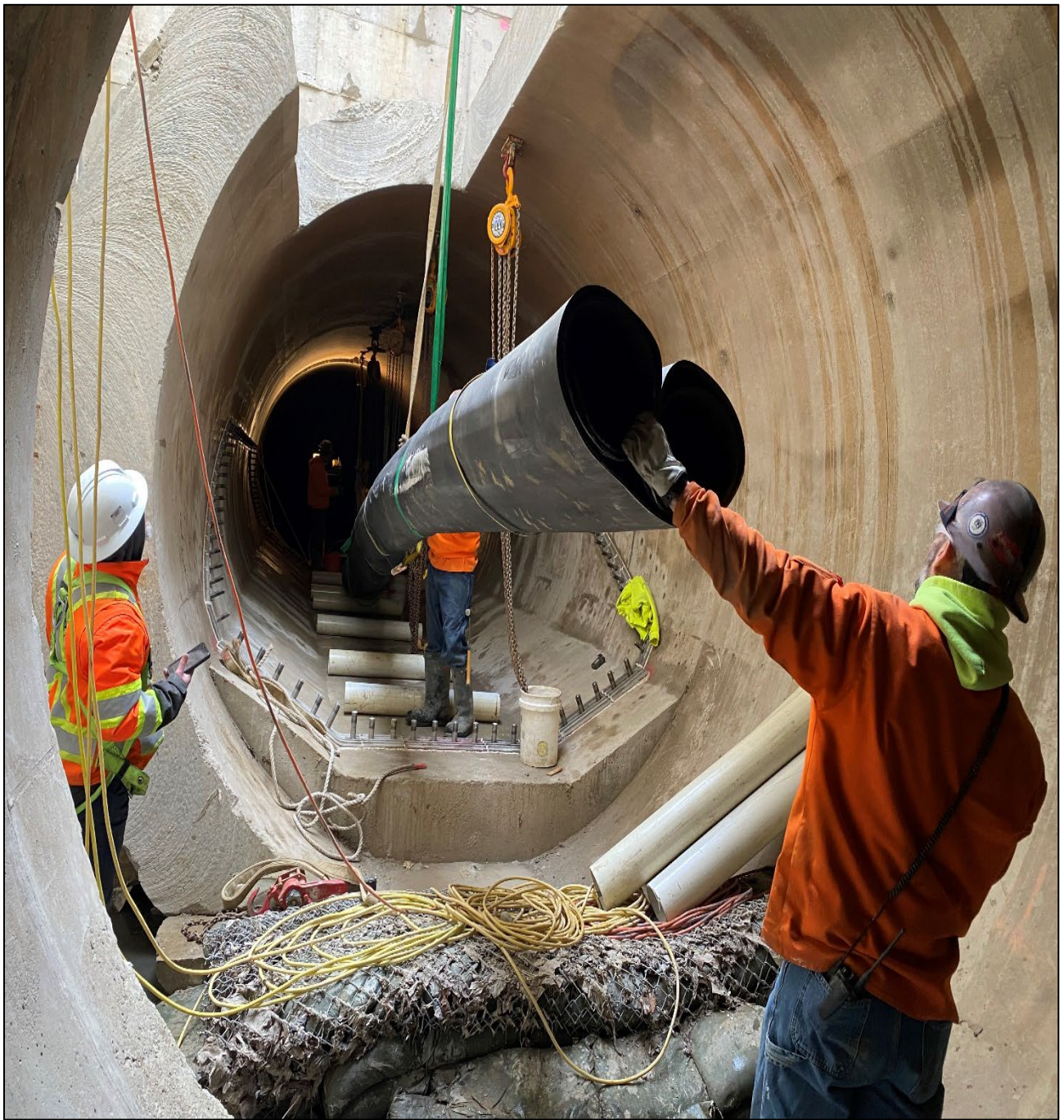


Figure 10 – Placing Upper Inflatable Dam Membrane @ Beaconsfield 11.5 FT Tunnel



Figure 11 – Installed Inflatable Sewer Gate @ 11.5FT Tunnel



Figure 12 – Inflating Sewer Gate @ 11.5FT Tunnel



Figure 13 –Inflated Sewer Gate to Crown of Pipe @ 11.5FT Tunnel



Figure 14 – Drone Aerial at 200 FT



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Chapaton RTB Canal Rehabilitation Project

Contractor: Z Contractors

Engineering Consultant: Wade Trim

Project Description:

The primary focus of the project is to rehabilitate the Chapaton Treatment Canal which was last rehabilitated in the early 2000s, replace the Chapaton Canal Control Structure gates and associated building and electrical components, and raise the top of the Chapaton Treatment Canal above the 500-year flood elevation. This will provide flood resiliency for the surrounding area and will improve the water quality of Lake St. Clair by capturing more CSO and discharging fewer times per year. Additional project components include a direct process pipe to the lake to reduce treatment costs by using less water, proper abandonment of a portion of the 100-year-old 9-Mile Drain, and an 11-acre sewer separation along 9-Mile Road.

Significant project tasks that have occurred over the past month:

1. Construction Activities per Update Period:
 - Installed air lines and conduits which will be embedded within the concrete gate slab to control the new weir gates.
 - Obermeyer representative (crest gate manufacturer) on-site to review installation and routing before concrete pour
 - Pour 5' tall decorative-face concrete caps with along entire south side of canal.
 - Install walers and tie rods to link finished canal wall (still buried) to tie-back wall (permanently buried)
 - Poured wing walls to lock in sheeting at emergency bypass conduit discharge.
 - Conducted canal excavation productivity test – 14 double trailer gravel train trucks running continuously for one work day.

2. Construction Look Ahead:
 - Finalize utility testing and pour gate slab
 - Install TideFlex check valve within stormwater discharge chamber
 - Install walers and tie-backs on northerly sheeting wall (east to west)
 - Continue south side improvements including utilities, tree/brush clearing, and grading
 - Form and pour gate structure divider walls.

Construction Costs:

| | Date (if applicable) | Amount |
|--------------------------|----------------------|-----------------|
| Original Contract Amount | 7/28/2023 | \$27,374,710.00 |
| Change Order 001 | 2/12/2024 | \$300,969.50 |
| Revised Contract Amount | | \$27,675,679.50 |
| Total Spent to Date | Through Pay App. #7 | \$15,135,884.88 |
| Remaining Budget | | \$12,539,794.62 |

Figure 15 – South Side concrete cap reinforcement



Figure 16 – South Side concrete cap pour



Figure 17 – South Side concrete cap finished



Figure 18 – North Side concrete cap forms



Figure 19 – Gate Structure formwork and reinforcement



Figure 20 – Gate Structure conduits, air lines, and boxouts



Figure 21 – Tie-back wall, walers, and tie-rods



Figure 22 – Portable Davit Crane and embedded socket base



Figure 23 – Drone Aerial at 100 FT Facing East (Baseline)



Figure 24 – Drone Aerial at 100 FT Facing East (03/04/24)



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Figure 25 – Drone Aerial at 100 FT Facing West (03/04/24)



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2023 Interceptor Inspection Program

Contractor: Taplin

Engineering Consultant: NTH

Project Description:

The 2023 sewer inspection program was awarded to Taplin in March 2023. The inspection program includes inspection of approximately 24 miles of sanitary sewer ranging from 2-feet to 12-feet in diameter and 152 manholes across the MIDDD and 8.5 Mile Districts.

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 8.5 Mile, due to being a combined sewer and mostly stormwater, is on a 10-year schedule. This may be adjusted pending the results of the current inspection.

Significant project tasks that have occurred over the past month:

1. Inspections are complete and data is uploaded into SewerAI.
2. After data is reviewed, punch list will be created to begin project closeout.
3. Immediate repair areas have already been addressed. MCPWO staff will develop a larger scale repair program for less critical areas.
4. Overall, the 8-1/2 pipe network is in good shape with only localized spot repairs expected.

Construction Costs:

| | Date (if applicable) | |
|--------------------------|----------------------|--------------|
| Original Contract Amount | 4/10/23 | \$403,919.38 |
| Total Spent to Date | Through Pay App #4 | \$352,877.70 |
| Remaining Budget | | \$51,041.68 |

***This Table reflects the 8.5 Mile costs only.**

Chapaton Electrical Upgrades

Contractor: Rotor Electric

Engineering Consultant: Tetra Tech

Project Description:

The project consists of installing three 2 MW generators and all associated synchronous gear, new motor starters for each of the three stormwater pumps, new 15 kV switchgear, and a complete motor rebuild for storm pump 2. This project will increase the electrical resiliency of the Chapaton Pump Station.

Significant project tasks that have occurred over the past month:

1. Submittals are being received and processed by the engineering team.
2. Construction Activities per Update Period:
 - No construction activities at this time. On-site work is currently not planned until 2025.

Construction Costs:

| | Date (if applicable) | Amount |
|--------------------------|----------------------|-----------------|
| Original Contract Amount | | \$14,650,000.00 |
| Total Spent to Date | Pay Apps. # | \$0.00 |
| Remaining Budget | | \$14,650,000.00 |



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

From: Vincent Astorino, Operations Director

Date: March 11, 2024

Subject: Chapaton PS Ventilation Improvements – Contractor Recommendation

The Chapaton Pump Station (PS) has been experiencing significantly elevated temperatures within the main floor, which houses the large stormwater pumps, during wet-weather events. This has caused the pump motors to reach critical temperatures sooner during large wet-weather events. These elevated temperatures within the storm pump motors are causing the stator and windings to degrade faster over time and therefore are reducing their useful life expectancy.

MCPWO Engineering staff has been investigating this issue. When the facility was constructed back in 1968, there used to be large louvers within the North wall near the pump motors which would allow some heat to be rejected to the outside environment during periods of storm pump use. In 2010, the previous administration, sealed these louvers and installed an energy recovery unit within that main floor to serve the lower galleries. Since that project in 2010, the pump station has experience elevated temperatures during wet-weather events due to not having the ability to exhaust the extreme temperatures rejected by the 2,750 HP storm pump motors. Portable fans have been used and windows are opened but are not capable of properly exchanging the air within that space which consists of a volume of approximately 204,525 cubic feet.

MCPWO utilized the 8.5 Mile As-needed Engineering program to engage OHM Advisors, Inc. to perform an evaluation of the facility. OHM came to the same conclusion as MCPWO Engineering staff. As part of their report, OHM also analyzed several options to remedy the excessive heat within the main floor of the Chapaton PS. Three options were provided all involving combinations of exhaust fans and air intake louvers. These ranged from 180,000 cubic feet per minute (CFM) to 90,000 CFM in exhaust fan capacity with the higher being for worst case scenario. After review of the options, MCPWO chose to pursue the 90,000 CFM option and tasked OHM with designing it.

Once the design was completed a bid package was advertised on the Michigan Inter-Governmental Trade Network (MITN) to solicit bids for the project. This package was posted on 1/24/24 and a mandatory pre-bid meeting was held on 2/1/24. On 2/29/24, MCPWO received and publicly opened four (4) lump sum bids as follows:

| Contractor | Bid Price |
|----------------------------|---------------------|
| Decima, LLC | \$412,850.00 |
| A/C Building System, Inc. | \$473,000.00 |
| Reliance Building Company | \$567,400.00 |
| Weiss Construction Company | \$597,000.00 |
| Total Budget | \$750,000.00 |

MCPWO staff worked with OHM to evaluate the bids. This evaluation included multiple factors, including, but not limited to, cost, relevant experience, and subcontractor qualifications.

After careful evaluation of all received bids, it is the opinion of MCPWO staff that A/C Building System, Inc. is the lowest responsible bidder. The as-read low-bidder, Decima LLC, noted projects of significantly differing scope and of smaller scale than that of the Chapaton PS Ventilation Improvements project. These projects included park renovations, controls programming, a restroom remodel, and several small commercial space buildouts. References were called in an attempt to learn more about the listed projects, but no callbacks were received.

Projects listed by A/C Building System, Inc. were of similar size and scope and one callback was received with the respondent confirming the services provided and indicating a successful project. The nature of Work outlined in the Contract Documents is relatively specialized and is in close proximity to the critical components within the Chapaton PS.

MCPWO staff is recommending that the 8 ½ Mile Relief Drain Drainage District Board award the contract to A/C Building System, Inc. for the total base bid amount of \$473,000.00 to perform the work associated with the Chapaton Pump Station Ventilation Improvements project.

MCPWO staff is confident that, although their bid may not be the lowest in terms of cost, A/C Building System, Inc. will be able to complete this project and presents the best value to the District. Upon Board approval, MCPWO staff will coordinate with A/C Building System to finalize the contract.

Additionally, OHM's previously approved proposal included construction contract administration (CCA) services. Remaining funds from the design phase will be applied to this CCA fee and OHM will continue to administer this project to completion. A portion of the inspection and coordination will be conducted by MCPWO staff as the project is adjacent to the MCPWO offices on the Chapaton mezzanine level.

Attachments: OHM Bid Review Letter Dated 3/5/24
A/C Building System, Inc. Bid Form dated 2/29/24



March 5, 2024

Vincent Astorino
Operations Director
Macomb County Public Works Office
21777 Dunham Road
Clinton Township, MI 48036

RE: Chapaton Pump Station Ventilation Improvements Bid
WWWS-2023-009 Bid Review

Dear Mr. Astorino:

OHM Advisors prepared bidding documents for the renovation of the HVAC exhaust system at the Chapaton Pumping Station. A mandatory pre-bid walkthrough was conducted on February 1, 2024 and sealed proposals were received on Thursday, February 29th, 2024, at 2:00 PM local time. On behalf of the Eight & One-Half Mile Relief Drain Drainage District, the Macomb County Public Works Office (MCPWO) received sealed proposals from four (4) bidders:

| Contractor | Total Bid |
|----------------------------|--------------|
| Decima, LLC | \$412,850.00 |
| A/C Building Systems, Inc. | \$473,000.00 |
| Reliance Building Company | \$567,400.00 |
| Weiss Construction Company | \$597,000.00 |

A review of the bids included reviewing each bidders total price and statement of values, the bidders qualifications and project examples, and review of references provided. Three of the listed references were contacted for each of the lowest two bidders; Decima and A/C Building Systems. During the time of our bid review, OHM did not receive feedback from any of the references contacted for Decima. OHM received a positive response from one of the references for A/C Building Systems on a project of similar scope and size indicating the project was completed without issue.

Project examples provided with the bids were also reviewed for similarities in size and scope to the Chapaton Ventilation Project. The examples from Decima included projects that appeared less mechanical intensive than A/C Building Services, Inc.

Review of the bid pricing received was determined to be reasonable for the scope of work and schedule of the project. We hope this information is helpful for MCPWO making a determination of project award. If you have any questions, please do not hesitate to give me a call at (989) 393-1717.

Sincerely,
OHM Advisors

Sean A. Tabacsko, Senior Project Manager

Bids Received on 2/29/2024

Chapaton Pump Station Ventilation Improvements

St. Clair Shores, State of Michigan

OHM Job No.: **WWWS-2023-009**

| Bidder | Address | Phone | Lump Sum Bid Price |
|----------------------------|--|--------------|---------------------------|
| Decima LLC | 16870 Schaefer Hwy, Detroit, MI 48235 | 260-243-0591 | \$412,850.00 |
| A/C Building System, Inc. | 47448 Pontiac Trl, Suite 333, Wixom, MI 48393 | 248-941-4283 | \$473,000.00 |
| Reliance Building Company | 26200 Town Center Drive, Suite 195, Novi, MI 48375 | 248-207-6982 | \$567,400.00 |
| Weiss Construction Company | 41001 Grand River Ave, Novi, MI 48375 | 313-567-4500 | \$597,000.00 |

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BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

- 1.01 This Bid is submitted to: **8-1/2 Mile Relief Drain Drainage District**
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

- 2.01 The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;
 - D. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
 - E. Required Bidder Qualification Statement with supporting data;

ARTICLE 3—BASIS OF BID—LUMP SUM BID

- 3.01 *Lump Sum Bids*
- A. Bidder will complete the Work in accordance with the Contract Documents for the following lump sum (stipulated) price(s):
- 1. Lump Sum Price (Single Lump Sum)

| | |
|------------------------------|---|
| Lump Sum Bid Price (figures) | \$ 473,000.00 |
| Lump Sum Bid Price (words) | Four hundred seventy three thousand dollars |

- 2. The Lump Sum Bid Price set forth above includes and is comprised of the following divisions of the proposed Work:

| Item No. | Description | Amount |
|----------------------------------|---|----------------------|
| 1 | Project Management, Mobilization, & Indirect Costs (5% Max) | \$ 20,000.00 |
| 2 | 45,000 cfm Roof Exhausters | \$ 150,000.00 |
| 3 | Roof Curbs and Openings | \$ 10,000.00 |
| 4 | Removal of Window Section | \$ 25,000.00 |
| 5 | Intake Louvers | \$ 50,000.00 |
| 6 | Intake Dampers | \$ 10,000.00 |
| 7 | Damper Actuators | \$ 15,000.00 |
| 8 | 460 V motor feeders, and disconnect | \$ 15,000.00 |
| 9 | 30 HP VFDs | \$ 50,000.00 |
| 10 | Controls | \$ 40,000.00 |
| 11 | Startup and Testing | \$ 5,000.00 |
| 12 | Lump Sum Cash Allowance Total (see table below) | \$ 10,000.00 |
| 13 | All other Work not included in Items 1-12 | \$ 830,000.00 |
| Total Lump Sum Bid Price: | | \$ 473,000.00 |

B. All specified cash allowance(s) are included in the price(s) set forth below, and have been computed in accordance with Paragraph 13.02 of the General Conditions.

| | |
|---|---------------------|
| Lump Sum for Cash Allowance 1 – Permits | \$ 10,000.00 |
| Lump Sum Cash Allowance Total (Item No. 12 Above): | \$ 10,000.00 |

C. Alternates (Refer to specification Section 01-23-00)

| | |
|---|----|
| Alternate X – Elimination/Add of Component: Add <u>Deduct</u> (circle one) | \$ |
|---|----|

ARTICLE 4—TIME OF COMPLETION

- 4.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement. Shall be substantially complete within 150 days.
- 4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5—BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 Bid Acceptance Period

- A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

5.02 Instructions to Bidders

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda: **[Add rows as needed. Bidder is to complete table.]**

| Addendum Number | Addendum Date |
|-----------------|---------------|
| 1 | 02-02-2024 |
| 2 | 02-23-2024 |

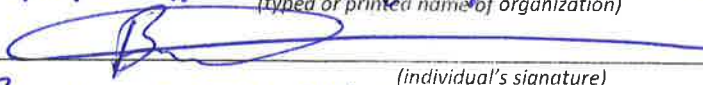
ARTICLE 6—BIDDER’S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder’s Representations*

- A. In submitting this Bid, Bidder represents the following:
1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
 6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder’s (Contractor’s) safety precautions and programs.
 7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

BIDDER hereby submits this Bid as set forth above:

Bidder: ALC Building System, Inc.
(typed or printed name of organization)

By: 
(individual's signature)

Name: Bekker Al-Muhtari
(typed or printed)

Title: President
(typed or printed)

Date: 02-29-2024
(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____
(individual's signature)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Date: _____
(typed or printed)

Address for giving notices:

Bidder's Contact:

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Phone: _____

Email: _____

Address: _____

Bidder's Contractor License No.: (if applicable) _____



Candice S. Miller

Public Works Commissioner
Macomb County

To: Macomb Interceptor Drain & 8 ½ Mile Relief Drain Drainage District Board Members

From: Stephen Downing, Construction & Maintenance Manager

Date: March 11, 2024

Subject: Segment 5, Segment 6, & In-System Storage Builder's Risk, Pollution & OPPI Policy Extension Premiums

The Macomb Interceptor Drain & 8 ½ Mile Relief Drain Drainage Districts authorized Meadowbrook Insurance Agency (MIA) to bind coverage for Builder's Risk, Pollution, and OPPI insurance policies on August 6, 2020. The initial 42-month coverage term was selected based on the estimated project completion dates for the projects.

As the respective Board members are aware, each of the projects is behind schedule for a variety of reasons. With the initial 42-month term set to expire on March 6, 2024, MCPWO worked with MIA to obtain an extension of the policies to maintain coverage through final completion of the projects. The attached MIA proposal summarizes the policies and their respective premiums to extend coverage for 9-months. The 9-month extension was selected based on review of the current project schedules and current progress of work.

The cost allocated to each project for these policies will be determined once all three projects have been completed. The cost share will be allocated based on the total construction value for each project. At the conclusion of the current OCIP program each Drain Board will be presented with a comprehensive summary of all OCIP premiums incurred on all projects for all policies.

The action is that the Macomb Interceptor Drain and 8 ½ Mile Relief Drain Drainage District Board receive and file this memo regarding the extension of the Builder's Risk, and Pollution policies for the premium amounts for a total of \$66,418.00.

Attachments: Meadowbrook Insurance Agency Memo Dated 2-28-2024

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264



February 28, 2024

Macomb County Public Works
ATTN: Stephen Downing
21777 Dunham Road
Clinton Township, MI 48036

RE: Builders Risk, Pollution Liability, and Owner’s Protective Professional Indemnity (OPPI) Insurance Extensions

Dear Mr. Downing,

Please find summary below for the extension of the Builders Risk, Pollution Liability, and OPPI Insurance policies for the Macomb Interceptor Drain Drainage District – Segment 5 and Segment 6 Projects, and the Eight and One-Half Mile Relief Drain Drainage District – In-System Storage Project. The summary below includes extending the current expiration date from 03/04/2024 to 12/31/2024.

| Carrier | Policy | Premium |
|--------------|---------------|-----------|
| Chubb | Builders Risk | \$ 48,139 |
| AIG | Pollution | \$ 14,783 |
| W.R. Berkley | OPPI | \$ 3,496 |
| Total | | \$ 66,418 |

Invoices are due upon receipt from our office and the additional premiums are made payable to Meadowbrook Insurance Agency.

Please let me know if you have any questions.

Thank you,

Patrick Kennedy on behalf of Salvatore Saputo
Account Executive
Meadowbrook Insurance Agency

EIGHT AND ONE-HALF MILE RELIEF
02/20/2024 - 03/05/2024

| <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> |
|-----------------------|--|----------------|-------------------------------|-----------------|--|--|------------------------------|
| 8 1/2 Mile Relief | Chapter 20 State of MI – 16.04% County of Macomb – 2.25% Dept. of Roads – 2.25% Eastpointe – 54.33% St. Clair Shores – 25.13% | Astorino | City of St. Clair Shores | \$ 1,500.00 | Invoice #24-153 - 02.14.24 | Chapaton RTB Flushing Improvements Test - Meter | |
| | | Astorino | Consumers Energy | \$ 1,596.13 | Invoice #205635773473 - 01.08.24 | Monthly Utilities - 01.09.24 - 02.07.24 | |
| | | Astorino | Consumers Energy | \$ 897.42 | Invoice #202343212108 - 01.08.24 | Monthly Utilities - 01.09.24 - 02.07.24 | |
| | | Astorino | Consumers Energy | \$ 1,051.71 | Invoice #202343212109 - 01.08.24 | Monthly Utilities - 01.09.24 - 02.07.24 | |
| | | Astorino | De-Cal Inc. | \$ 1,651.34 | Invoice #WO9240045 - 01.24.24 | HVAC Repairs | |
| | | Astorino | De-Cal Inc. | \$ 2,132.44 | Invoice #WO9240113 - 02.05.24 | HVAC Repairs | |
| | | Astorino | DTE Energy | \$ 543.39 | Invoice #24-127 - 01.31.24 | Monthly Electric - 01.01.24 - 01.31.24 | |
| | | Astorino | Mobile Motion Controls | \$ 750.00 | Invoice #FS114 - 02.11.24 | Filter Replacement | |
| | | Astorino | OHM | \$ 9,619.50 | Invoice #71231 - 01.23.24 | Ventilation Design through 01.13.24 | \$ 50,007.25 |
| | | Astorino | Kienbaum Hardy Viviano Pelton | \$ 2,942.50 | Invoice #50685 - 02.01.24 | Screening Wall Agreement | |
| | | Astorino | Kienbaum Hardy Viviano Pelton | \$ 3,427.50 | Invoice #50642 - 02.01.24 | Contract Review | |
| | | Astorino | Amazon | \$ 526.73 | Invoice #1XQN-W43P-KFLW - 02.06.24 | Water Pump and Hose Kit | |
| | | Astorino | DTE Energy | \$ 15,706.83 | Invoice #24-508 - 02.07.24 | Monthly Electric - 01.01.24 - 02.07.24 | |
| | | Astorino | DTE Energy | \$ 543.13 | Invoice #24-509 - 02.15.24 | Monthly Electric - 01.17.24 - 02.14.24 | |
| | | Astorino | DTE Energy | \$ 1,535.96 | Invoice #24-510 - 02.14.24 | Monthly Electric - 01.13.24 - 02.12.24 In System | |
| | | Astorino | Fishbeck | \$ 935.50 | Invoice #433786 - 02.21.24 | As-Needed Engineering through 02.16.24 | \$ 42,358.00 |
| | | Astorino | GVC Painting | \$ 60,110.00 | Invoice #23135 - 02.20.24 | Painting at Chapaton | |
| | | Astorino | OHM | \$ 1,681.50 | Invoice #72276 - 02.19.24 | Ventilation Design through 02.10.24 | \$ 48,325.75 |
| | | Astorino | People Driven Technology | \$ 1,224.58 | Invoice #INV10013 - 02.23.24 | Vecam License and Support - SCADA | |
| | | Astorino | Tetra Tech | \$ 42,470.72 | Invoice #52194278 - 02.02.24 | In-System Storage CCA through 01.26.24 | \$ 157,078.94 |
| | | Astorino | Tetra Tech | \$ 5,815.00 | Invoice #52194280 - 02.02.24 | Chapaton Electrical CCA through 01.26.24 | \$ 674,453.00 |
| | | Astorino | The Macomb Group | \$ 1,651.90 | Invoice #7016942 - 02.23.24 | PVC - Repairs / Maintenance | |
| | | Astorino | Wade Trim | \$ 66,493.45 | Invoice #2030513 - 03.01.24 | Chapaton RTB Canal Upgrades through 02.23.24 | \$ 1,374,387.95 |
| | | Astorino | Weiss Construction | \$ 462,672.44 | Invoice #WWS-2021-006 App21 - 01.04.24 | In-System Storage through 12.15.23 | \$ 3,139,933.47 |
| | | Astorino | Weiss Construction | \$ 669,485.70 | Invoice #WWS-2021-006 App22 - 01.29.24 | In-System Storage through 01.19.24 | \$ 2,470,447.77 |
| | | Astorino | Z Contractors | \$ 966,801.62 | Invoice #App 7 - 02.26.24 | Chapaton RTB Canal Rehabilitation through 02.29.24 | \$ 12,539,794.62 |
| | | SRF DEBT | | Manning | Michigan Finance Authority | \$ 17,812.50 | Invoice #5708-MFA - 02.06.24 |
| Manning | Michigan Finance Authority | | | \$ 6,294.74 | Invoice #5708-MFA - 02.06.24 | Debt - 5393-01 | |
| Manning | Michigan Finance Authority | | | \$ 27,504.31 | Invoice #5708-MFA - 02.06.24 | Debt - 5460-01 | |
| Manning | Michigan Finance Authority | | | \$ 3,104.58 | Invoice #5708-MFA - 02.06.24 | Debt - 5579-01 | |
| Total | | | | \$ 2,378,483.12 | | | |

Budget to Actual
8.5 Mile Relief
As of Feb 29, 2024 =42%

| DESCRIPTION | 2024 FINAL BUDGET | ENCUMBERED | ACTUAL | REMAINING BUDGET | PCT UTILIZED |
|---|----------------------|------------|-------------------|---------------------|--------------|
| REVENUE ACCOUNTS | | | | | |
| Interest Earned | 275,000 | | 60,271 | 214,729 | 21.9% |
| Other Revenue | 5,000 | | 320 | 4,680 | 6.4% |
| Grants | 47,009,450 | | 20,818,847 | 26,190,603 | 44.3% |
| 8.5 O&M/Charge Required Revenue | 5,260,440 | | 2,630,220 | 2,630,220 | 50.0% |
| PY Revenue-Fund Balance | 11,372,850 | | | 11,372,850 | 0.0% |
| Reimbursement from St. Clair Shores | 710,000 | | | 710,000 | 0.0% |
| Use of Reserve | 270,560 | | | 270,560 | 0.0% |
| Total Revenue Accounts | 64,903,300 | - | 23,509,658 | 41,393,642 | 36.2% |
| EXPENSE ACCOUNTS | | | | | |
| Application/Permit Fee | 6,000 | | 6,000 | - | 100.0% |
| Dues, Training, Conf, Subs. | 17,400 | | 3,657 | 13,743 | 21.0% |
| Engineering | | | | | |
| PS Main Floor Ventilation | 750,000 | | 31,776 | 718,224 | 4.2% |
| Digital Twin Model Pilot Project | 275,000 | | | 275,000 | 0.0% |
| Inspection Program | - | | 80,378 | (80,378) | 100.0% |
| Sluice & Dewatering Gates Rehab/Replacement Project | 4,912,400 | | 11,012 | 4,901,388 | 0.2% |
| Flushing | 4,863,290 | | 92,653 | 4,770,637 | 1.9% |
| General Construction/Engineering Contingency-All Projects | 567,500 | | | 567,500 | 0.0% |
| As Needed Engineering | 161,460 | | 43,590 | 117,870 | 27.0% |
| 9 Mile Emergency Bypass Structural Rehab | 881,420 | | 3,182 | 878,238 | 0.4% |
| 9 Mile Bypass Pipe Structural Repairs-Construction/CA | 50,000 | | 16,088 | 33,912 | 32.2% |
| In-System Storage-Construction Admin and Construction | 2,617,840 | | 251,834 | 2,366,006 | 9.6% |
| In-System Storage-Construction Admin and Construction (County ARPA) | 2,150,250 | | 2,150,250 | - | 100.0% |
| Electrical Rehab (State and County ARPA Funds) | 15,369,930 | | 37,670 | 15,332,260 | 100.0% |
| Canal Rehab (State ARPA Funds) | 29,489,270 | | 18,630,927 | 10,858,343 | 100.0% |
| New Equipment | 113,750 | | | 113,750 | 0.0% |
| Office Supplies | 500 | | | 500 | 0.0% |
| Operating Supplies | 96,450 | | 38,292 | 58,158 | 39.7% |
| Other Professional Svcs | 56,500 | | 11,958 | 44,542 | 21.2% |
| Personnel Services | 1,251,350 | | | 1,251,350 | 0.0% |
| Repair & Maintenance | 614,500 | | 143,833 | 470,667 | 23.4% |
| Contribution to Reserve | 288,240 | | | 288,240 | 0.0% |
| Scada System | 82,050 | | 1,833 | 80,217 | 2.2% |
| Utilities | 288,200 | | 93,104 | 195,096 | 32.3% |
| Total Expense Accounts | 64,903,300 | - | 21,648,037 | 43,255,263 | 33.4% |

| | O&M Balance 9/30/2023 | O&M | Total 2/29/2024 |
|----------------------------|--------------------------|------------|--------------------|
| Cash - Operating | 15,698,301 | 1,861,621 | 17,559,922 |
| Accounts Receivable | | | 0 |
| Assets | | | 0 |
| Liabilities | | | 0 |
| Revenues | | 23,509,658 | 23,509,658 |
| Expenditures | | 21,648,037 | 21,648,037 |
| | | | 0 |
| Equity* | 15,698,301 | | 17,559,922 |

Detail of 2023 Equity*

| | | | |
|---|-----------|--------------------------------|-----------|
| Chlorine storage tank relining | 7,500 | Capital Reserve | 1,768,010 |
| Painting | 50,000 | SCADA Reserve | 158,470 |
| As needed Engineering | 35,723 | SRF Replacement Reserve | 2,851,350 |
| Sluice and Dewatering Gates Rehab/Replace Project | 3,958,336 | 9 Mile Bypass Pipe Struct Rprs | 29,726 |
| Flushing | 3,850,637 | In System Storage | 1,961,964 |
| 9 Mile Emergency Bypass Structural Rehab | 996,585 | East Building Server | 30,000 |

| ARPA Funds | Remaining |
|-----------------|------------|
| County | |
| ISS | 2,595,237 |
| Electrical | 9,500,000 |
| State | |
| Electrical | 5,903,393 |
| Canal Rehab | 20,741,110 |
| Federal Earmark | 2,500,000 |