

AGENDA

Oakland-Macomb Interceptor Drain Drainage Board Macomb and Oakland Counties

December 20, 2023 – 11:30 a.m.

Office of the Macomb County Public Works Commissioner
21777 Dunham Road, Clinton Township, Michigan, and Microsoft Teams

1. Call meeting to order

Board Members:

Michael Gregg, Chair, Michigan Department of Agriculture and Rural Development
Candice Miller, Macomb County Public Works Commissioner
Jim Nash, Oakland County Water Resources Commissioner

2. Motion to approve the meeting agenda for December 20, 2023
3. Motion to approve the Drainage District Board Meeting Minutes from November 13, 2023
4. Public Comment
5. Present Memorandum for the Contract Extension for Meadowbrook Insurance Agency for the NESPS and NI-EA Projects
6. Present Memorandum regarding the Wet Well Bar Screen Maintenance Procedure
7. Motion to approve the following Engineering Work Order:
 - a) METCO Services, Inc for additional services for operation, maintenance, and management of Northeast Sewage Pumping Station and OMID System to increase the Engineering Services Agreement by a not-to-exceed amount of \$1,679,443.96
 - b) Jacobs Consultants Inc. for additional tasks and corrections to original fee proposal related to the OMID Odor and Corrosion Control System Project to increase the Engineering Services Agreement by a not-to-exceed amount of \$90,829
8. Motion to approve the following Change Order:
 - a) Walsh Construction Change Order No. 39 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$383,680.17
9. Motion to approve the following Construction Estimates:
 - a) Construction Estimate No. 38 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$188,922.61 with a transfer to the Oakland County Treasurer in the amount of \$1,462.23
 - b) Construction Estimate No. 33 for Marra Services for NI-EA Contract No. One for PCI 4 Rehabilitation in the amount of \$252,500.

- c) Construction Estimate No. 4 for Z Contractors for NI-EA Contacts 2A and 2B – PCI 18 and 19 Rehabilitation in the amount of \$794,951.51 with a transfer to the Oakland County Treasurer in the amount of \$88,327.95

10. Status of OMID Repairs Project

11. Financial Reports – General Financial Report and Status of State Revolving Fund Financing and Other Financing

12. Motion to approve the following invoices:

1) Labor/Fringes/Non-Direct Labor Factor			
• Segment 5 NI-EA Construction		\$	5,089.49
• Segment 5 NESPS Mech./Elect. Construction		\$	5,501.72
2) Equipment Charges			
• Segment 5 NI-EA Construction		\$	142.37
• Segment 5 NESPS Mech./Elect. Construction		\$	224.94
3) Mileage			
• Segment 5 NESPS Mech./Elect. Construction		\$	38.91
a) ASI			
Invoice No.	NESPS	\$	59,918.21
	O&M	\$	8,062.87
b) Clark Hill			
1) Invoice No. 1371149	NESPS	\$	3,595.50
2) Invoice No. 1380412	NESPS	\$	1,224.00
3) Invoice No. 1380507	NESPS	\$	162.00
c) Jacobs			
Invoice No. C6A19900-11	O&M	\$	42,151.29
d) Kennedy			
Invoice No. 639206	O&M	\$	1,648.50
e) Lardner Elevator			
1) Invoice No. 199339	O&M	\$	2,318.00
2) Invoice No. 199361	O&M	\$	10,964.00
f) Metco			
Invoice No. 1811-59	O&M	\$	82,207.34
g) Motor City			
1) Invoice No. 95463	O&M	\$	180.00
2) Invoice No. 95464	O&M	\$	90.00
3) Invoice No. 96465	O&M	\$	126.00
4) Invoice No. 95466	O&M	\$	675.00
5) Invoice No. 95467	O&M	\$	135.00
6) Invoice No. 95468	O&M	\$	360.00
7) Invoice No. 95470	O&M	\$	427.50
h) NTH Consultants, Ltd			
1) NESPS Maintenance Engineering Services			
Invoice No. 634509	O&M	\$	1,659.24
2) OMID Rehab. 2021 Closeout Services			
Invoice No. 634510	O&M	\$	778.10
3) Eng/Consult. NESPS Pumping and Electrical			
Invoice No. 634511	NESPS	\$	4,161.80
4) Engineering/Consulting Services PCI-18 and PCI-19 Rehabilitation			

	Invoice No. 634512	NI-EA	\$ 67,543.54
5)	Contract No. 1 PCI-4 Rehabilitation		
	Invoice No. 634513	NI-EA	\$ 60,102.34
i)	PM Technologies		
	1) Invoice No. 84825412	O&M	\$ 350.00
	2) Invoice No. 84827602	O&M	\$ 350.00
	3) Invoice No. 84828599	O&M	\$ 350.00
j)	PMA Consultants		
	1) Invoice No. 03559.01-41	NI-EA	\$ 22,304.41
	2) Invoice No. 03559.01-42	NI-EA	\$ 21,098.77

13. Other Business

14. Adjourn

Next Regular Meeting: January 17, 2024, at 11:30 a.m., Eastern Standard Time.

Agenda Item No. 3

Board Meeting Minutes from November 13, 2023

**MINUTES OF THE REGULAR MEETING OF THE DRAINAGE BOARD
FOR THE OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT**

November 13, 2023

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held at the Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township Michigan on the 13th day of November 2023 at 1:30 p.m. Eastern Standard Time and via Microsoft Teams.

PRESENT:

Michael Gregg, Chairperson and Deputy for Dr. Tim Boring, Director of the Michigan Department of Agriculture and Rural Development; Candice Miller, Member and Macomb County Public Works Commissioner; and Anne Vaara for Jim Nash, Secretary and Oakland County Water Resources Commissioner.

OTHERS PRESENT:

Representing the office of the Macomb County Public Works Commissioner: Brian Baker and Stephen Downing. Representing the office of the Oakland County Water Resources Commissioner: Steve Korth, Brian Coburn, Evans Bantios, Raphael Chirolla, Meg Koss and Stephanie Lajdziak. Others in attendance: Fritz Klingler, FK Engineering; Terry Moore, Metco; Shawn Phelps and Jeff Ragle, OC Fiscal Services; Larry Gilbert and Michelle Kitzinger, NTH Consultants; John Michalski, ASI; Brady Harrington, MDARD.

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 1:50 p.m.

2. Agenda.

Motion by Miller, supported by Vaara, to approve the November 13, 2023, agenda as presented.

ADOPTED: Yeas - 3
 Nays - 0

3. Minutes.

Motion by Vaara, supported by Miller, to approve the minutes of the October 18, 2023, meeting.

ADOPTED: Yeas - 3
 Nays - 0

4. Public Comment.

None.

5. AEW NESPS Wet Well Sediment Inspection Report

Stephen Downing presented the wet well sediment inspection report of the NESPS from Anderson, Eckstein & Westrick, Inc. (AEW). It was advised that the inspections were

conducted as a precautionary measure and the sediment found did not impact the flow or performance of the pump. It was advised that inspections are no longer needed at this time.

Motion by Vaara, supported by Miller, to receive and file the AEW NESPS Wet Well Sediment Inspection report as presented.

ADOPTED: Yeas - 3
Nays - 0

6. HESCO Request for Consent to Assignment

Stephen Downing advised the Board that HESCO has formed a partnership with Brixey & Meyer Capital, LLC and the legal name of their company has changed to HESCO Group, LLC. Oakland County legal advised the consent to assignment request was suitable and agreed that it should be presented to the Board as a formality.

Motion by Miller, supported by Vaara, to authorize the Secretary to sign the Request for Consent to Assignment from HESCO as presented.

ADOPTED: Yeas - 3
Nays - 0

7. Engineering Work Orders.

The following Engineering Work Orders were submitted to the Board to approval:

- a) Motor City Electric Technologies for an extension of contract # 5469 to provide instrumentation and control services and others as specified in the original contract according to the rate schedule until December 31, 2025. Motion by Miller, supported by Vaara, to approve Engineering Work Order D-464(3) as presented.

ADOPTED: Yeas - 3
Nays - 0

8. Change Order.

The following Change Order was submitted to the Board for approval:

- a) Walsh Construction Change Order No. 38 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$29,244.28. Motion by Vaara, supported by Miller, to approve the Change Order as presented.

ADOPTED: Yeas - 3
Nays - 0

9. Construction Pay Estimates.

The following Construction Pay Estimates were submitted to the Board for approval:

- a) Construction Estimate No. 37 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$412,037.07 with a transfer to the Oakland County Treasurer in the amount of \$751.52. Motion by Vaara, supported by Miller, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3
Nays - 0

- b) Construction Estimate No. 32 for Marra Services for NI-EA Contract No. One for PCI 4 Rehabilitation in the amount of \$339,236.40. Motion by Miller, supported by Vaara, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3
Nays - 0

- c) Construction Estimate No. 3 for Z Contractors for NI-EA Contacts 2A and 2B – PCI 18 and 19 Rehabilitation in the amount of \$753,927.60 with a transfer to the Oakland County Treasurer in the amount of \$83,769.73. Motion by Vaara, supported by Miller, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3
Nays - 0

10. Report/Update – Status of OMI Project, Segments 1 through 4, NESPS and NI-EA.
Fritz Klingler of FK Engineering presented the Project Progress Update to the Board and summarized the status of various projects.

Motion by Vaara, supported by Miller, to receive and file the report and summary.

ADOPTED: Yeas - 3
Nays - 0

11. Financial Reports.
Shawn Phelps presented the financial reports for Segments 1 through 5 and the NESPS. Motion by Miller, supported by Vaara, to receive and file the financial reports.

ADOPTED: Yeas - 3
Nays - 0

12. Invoices.
The following invoices were submitted to the Board for approval:

1) Labor/Fringes/Non-Direct Labor Factor			
• Segment 5 NI-EA Construction		\$	5,094.91
• Segment 5 NESPS Mech./Elect. Construction		\$	9,247.73
2) Equipment Charges			
• Segment 5 NI-EA Construction		\$	133.93
• Segment 5 NESPS Mech./Elect. Construction		\$	312.93
3) Reimbursement			
• The City of Sterling Heights	O&M	\$	100.00
a) ASI			
1) Invoice No. 56-8535	NESPS	\$	77,924.81
	O&M	\$	6,644.00

	2) Invoice No. 56a-8536	NESPS	\$	2,192.13
b)	Clark Hill Invoice No. 1360901	NESPS	\$	11,602.50
c)	Kennedy Invoice No. 636357	O&M	\$	1,712.00
d)	Lardner Elevator 1) Invoice No. 198731 2) Invoice No. 199161	O&M O&M	\$	204.00 204.00
e)	Metco Invoice No. 1811-58	O&M	\$	96,764.28
f)	Motor City 1) Invoice No. 95253A 2) Invoice No. 95330A 3) Invoice No. 95332A 4) Invoice No. 95333A 5) Invoice No. 95334A 6) Invoice No. 95335A 7) Invoice No. 95336A 8) Invoice No. 95367 9) Invoice No. 95369 10) Invoice No. 95370 11) Invoice No. 95371 12) Invoice No. 95372 13) Invoice No. 95373	O&M O&M O&M O&M O&M O&M O&M O&M O&M O&M O&M O&M O&M	\$	180.00 585.00 135.00 135.00 315.00 360.00 90.00 135.00 270.00 450.00 405.00 180.00 270.00
g)	NTH Consultants, Ltd 1) Contract No. 1 PCI-4 Rehabilitation Invoice No. 634228 2) Eng/Consult. NESPS Pumping and Electrical Invoice No. 634229 3) OMID Rehab. 2021 Closeout Services Invoice No. 634230 4) NESPS Maintenance Engineering Services Invoice No. 6342131 5) Engineering/Consulting Services PCI-18 and PCI-19 Rehabilitation Invoice No. 634232	NI-EA NESPS O&M O&M NI-EA	\$	62,786.93 30,079.12 813.36 1,231.28 72,084.91
h)	PM Technologies 1) Invoice No. 82027158 2) Invoice No. 82027340 3) Invoice No. 84102103 4) Invoice No. 84109109 5) Invoice No. 84109573	O&M O&M O&M O&M O&M	\$	3,157.64 4,095.14 350.00 350.00 350.00
i)	PMA Consultants Invoice No. 3559.01-40	NI-EA	\$	19,893.13

Motion by Vaara, supported by Miller, to approve the invoices as presented.

ADOPTED: Yeas - 3
Nays - 0

13. Other Business.
None.

14. Adjourn.
Motion by Vaara, supported by Miller, to adjourn the November 13, 2023, meeting at 2:49 p.m.

ADOPTED: Yeas - 3
Nays - 0

Next Regular Meeting: *Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township, Michigan* and electronically at 11:30 a.m., Eastern Standard Time on December 20, 2023.

I hereby certify that the foregoing constitutes the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage District, at a meeting held on November 13, 2023 and that the meeting was conducted and public notice was given in compliance with the Open Meetings Act being Act 267, Public Acts of Michigan, 1976, as amended, and that the minutes were kept and will be or have been made available to the public as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this 13th day of November 2023.



Anne Vaara, Acting Secretary
Oakland-Macomb Interceptor Drain Drainage Board

Agenda Item No. 4

Public Comment

Agenda Item No. 5

Meadowbrook Insurance Contract Extension



Oakland-Macomb Interceptor Drain Drainage District

TO: Michael Gregg, Chairperson
Oakland-Macomb Interceptor Drain Drainage Board

FROM: Evans Bantios, P.E., Oakland County Water Resources Commissioner's Office
Stephen Downing, Macomb County Public Works Commissioner's Office

SUBJECT: Contact Extension for Meadowbrook Insurance Agency for OCIP for Northeast Sewage Pump Station and North Interceptor East Arm Projects

DATE: December 20, 2023

To prevent our Owner Controlled Insurance Program (OCIP) coverage from expiring on January 1, 2024, we need to extend coverage for the projects associated with the improvements on the Northeast Sewage Pump Station and North Interceptor East Arm projects to July 1, 2025. There will be an increase of \$336,055.38 in insurance premiums for this additional time. A breakdown of the insurance premiums is shown on the Meadowbrook Insurance Agency's December 14, 2023 letter.

RECOMMENDED ACTION: Extend the OCIP coverage from January 1, 2024 to July 1, 2025 with an increased cost of \$336,055.38.



December 14, 2023

Oakland-Macomb Interceptor Drain Drainage District
 1 Public Works Drive, BLDG 95 West
 Waterford, MI 48328

RE: NESPS/NI-EA OCIP Insurance Extension

Dear Mr. Downing & Mr. Bantios,

Please find summary below for the Liability, Builders Risk, Pollution, and OPPI insurance extension on the owner-controlled insurance program (OCIP) for Northeast Sewage Pump Station and North Interceptor - East Arm Contract 2A & 2B projects. The summary below includes adding the additional months of coverage to the current program adjusting the policy expiration from 01/01/2024 to 07/01/2025. The total additional premiums for the policy extensions are outlined in the table below:

OMIDD NESPS NIEA (Contract 2A & 2B) Owner Controlled Insurance Program Policy Extension Premium Summary			
Carrier	Policy	Bound Policies 42 Month Term	Extension Adding 18 Months
Everest Indemnity Ins. Co.	\$2M/\$4M General Liability	\$ 349,476.83	\$ 48,197.55
Everest Indemnity Ins. Co.	5M X Primary GL	\$ 214,327.50	\$ 29,212.50
Capitol Specialty Ins. Corp.	10M x 5M	\$ 166,199.65	\$ 28,001.98
Starr Surplus Lines Ins. Co.	10M x 15M	\$ 104,559.23	\$ 19,475.00
Navigators Specialty Ins. Co.	\$12.5M P/O \$25M X \$25M	\$ 105,575.00	\$ 15,375.00
Great American Ins. Co.	\$12.5M P/O \$25M X \$25M	\$ 100,000.00	\$ 15,375.00
Chubb	Builders Risk	\$ 396,513.00	\$ 144,693.00
AIG	Pollution	\$ 85,550.60	\$ 24,440.10
Berkley	OPPI	\$ 102,500.00	\$ 11,285.25
	Total	\$ 1,624,701.81	\$ 336,055.38

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

Please let me know if you have any questions.

Thank you,

Patrick Kennedy

Patrick Kennedy
 Account Executive
 Meadowbrook Insurance Agency

CC: Salvatore Saputo

Oakland-Macomb Interceptor Drain Drainage District
Regular Meeting – Wednesday, December 20, 2023

Agenda Item No. 6

**Memo Type: Maintenance Protocols – Northeast Sewage Pumping Station (NESPS)
“Wet Well Bar Screen Maintenance Procedure”****To:** Drain Commission for the Oakland Macomb Interceptor Drain Drainage District**From:** Lawrence T. Gilbert P.E. and Abdulnasser Almadhoun, P.E. DS
LTG DS
aa**Date:** November 3, 2023**Re:** Options for Mechanical Cleaning of Wet Well Bar Screens

Background:

The NESPS Wet Well facility includes a fabricated steel partition screen intended to trap heavy debris in advance of the main Sewage Pump intakes thereby preventing potential damage to the pump mechanisms. The screens are comprised of heavy flat bar stock (½” thick by 4” wide) fabricated into individual, removable, segmental panels, each approx. 5.2’ wide by 10.5’ high with a 4” clear space between each of the vertical screen bars. The panels are stacked in a 3 high by 5 wide configuration at each side of the divided Wet Well (typically referred to as the south or “Lakeshore Interceptor” side, and the north or “Corridor Interceptor” side). When in place, the bar screens provide an approx. 25.9’ x 31.7’ screened surface per side that is inclined 10 degrees opposing the direction of incoming flow. A structural steel frame provides the supporting system for the individual screens and transfers the forces from the incoming wastewater flow to the wet well center dividing wall and to the adjacent side (caisson) walls.

When originally constructed in 1970, the wet well was equipped with a mechanized bar screen cleaning apparatus that could systematically provide a top to bottom “raking action” that would convey (by an upward dragging motion) debris trapped on the screen to the top of the screens at the wet well mezzanine operating level where personnel could operate the equipment. At the end of each vertical cycle, captured debris would be deposited into a small rail mounted trolley car “muck box”. The muck box was designed to travel laterally on the mezzanine deck to a position where the 4 ton overhead gantry crane could raise the box to the ground surface whereupon arrangements for transfer offsite



and disposal functions could then occur. While seemingly simple in concept and not dissimilar from currently advertised wastewater screen maintenance systems, the original screening equipment was found to be unsatisfactory by the facility operators citing reasons of ineffectiveness and high maintenance requirements. Ultimately, the apparatus was removed and abandoned with no replacement procedures provided. Screen maintenance by DWSD and later GLWA staff then proceeded to remove accumulated debris on “an as-needed basis”, with occasional fire hose jetting combined with the manned removal of heavier accumulated debris that could not pass the screen openings.

Developments during recent years in the paper and textile industries have resulted in a proliferation of durable products marketed as “disposable” but demonstrating very high durability in terms of tear resistance and simple toughness. These materials, while degradable to a limited extent, have proven to be resistant to conventional waste management techniques and have become a significant source of wastewater system fouling, including massive accumulations on bar screens, such as those at the NESPS. With the intertwining of the tough fabric-like material around the bar screen vertical bars, effective cleaning became difficult and challenging for cleaning crews. The task has required personnel to physically remove the debris accumulation literally in a “piece by piece ” manner while working off fully extended 40’ extension ladders. Ultimately, the collected debris was transported up (100 vertical feet) to ground surface level and then transported to a licensed landfill for disposal.

Active regulatory campaigns aimed at promoting a reduction in the use of flushable products has seemingly demonstrated an observable decline of these products in the wastewater streams, however, only to a limited degree as the flushable materials remain present in significant quantities. The current methodology employed at the NESPS for bar screen cleaning continues to require subcontractor maintenance personnel to physically enter the wet well under Flow Management restrictions (i.e. the Pump Station is taken out of service with LoTo protocols in place) and optionally steel plate bulkheads may be installed to isolate the area of the wet well where personnel will operate. Common extension ladders are installed, and the maintenance crew endeavors to clean the screens, top to bottom, essentially working in a “cherry picker” routine while carrying a 5 gal. pail to collect the debris. The debris makeup consists of normal sewage materials as well as sanitary products, medical



“sharps”, and other hygienically undesirable detritus that places work crews in direct contact during removals.

Additionally, current procedures requiring the use of long extension ladders, limited surface access, and the moving proximities of the cleaning operation make emergency rescue operations of a disabled crew member extremely difficult without specially trained CSE rescue personnel on hand, regardless of normal PPE fall protection harness tie-off procedures typically being in place. The current cleaning procedure may be considered an interim measure to maintain flow capacity to the main pumps.

Due primarily to the perseverance of the current cleaning Contractor’s workforce (Doetsch Environmental Services) and the support of the METCO Flow Management Team, this procedure has succeeded in maintaining the bar screens in serviceable condition, and within reasonable maintenance budget impacts to date. However, concerns over the extremely hazardous working environment afforded the cleaning crews, the continually increasing shortage of “willing” worker candidates, and the upcoming changes in facility operating protocols with new pumping equipment leads to a conclusion that improved long term procedures with greater efficiency are necessary.

Criteria Considerations for Equipment Selection

In outlining the desirable (in some cases considered necessary) features of improved bar screen cleaning methods, a number of factors are relevant:

- Cleaning operations should preclude the necessity of any personnel physically entering the permit required Confined Space wet well intake area and/or suction well except under extreme conditions and with Flow Management Protocols and full LoTo in place.
- Cleaning operations should not typically require Flow Management restrictions, thereby allowing screen cleaning to take place during normal pumping operations. Cleaning operations should in practice be supported by normal pumping operations.
- The interval between cleaning operations should be determined by the Facility Operations Team, with a reduced frequency between the cleaning cycles considered desirable.



- Installation and removal of the fabricated steel stop log isolation plates should not be required, including preparatory work such as guide channel and threshold pre-cleaning, and subsequent perimeter leak sealing. (Note: These tasks involve additional worker safety exposures that also can be eliminated in addition to significant time and cost reductions).
- All debris removals (with the exception of unusually large debris) should not be retained for separate disposal but rather safely re-introduced into the pumped wastewater stream where it will eventually be recovered at the GLWA Water Resource Recovery Facility (Wastewater Treatment Plant) in Detroit.
- All proposed modifications to the bar screen cleaning task should also be evaluated (in part) to the short and long term economic considerations that result from initial capital investments in addition to routine operating costs.
- Improved cleaning methodologies must not be damaging to and/or increase abrasive wear, damage, or deterioration to the existing bar screens.
- New cleaning equipment installations should not interfere or conflict with existing and/or proposed Wet Well features such as safety perimeter handrail, flow level instrumentation devices, personnel elevator access or operation, electrical, lighting and gas alarm conduit and fixtures, and the bar screen structure itself.
- The cleaning equipment/methodology should also work to remove or reduce sediment in the intake side of the wet well where bar screen debris collections tend to promote grit and sediment buildup.
- The technology and operational characteristics of the cleaning equipment must be robust, simple, and capable of being operated by normal maintenance personnel.
- The equipment must be inherently safe in function for personnel to operate, free from “pinch points”, unstable or top-heavy designs, or other cumbersome mechanisms. The equipment must also be designed for ease of installation using the existing 4 ton gantry crane located at ground level, and when necessary, removal for use or storage elsewhere should be convenient.
- The equipment must be designed for regular operation in sanitary wastewater operations, be fully submersible without damage, and be easily cleaned with routine wash-down procedures. As the potential for occasional large -sized debris to be captured on the bar screens is a realistic concern, the cleaning mechanisms should be able to address such obstructions without



jamming or damage to the equipment. Typically, however, over-sized debris will have to be removed manually by work-crews.

- Crew-size requirements for regular operation should emphasize minimal sized crews (including top support) with non-technical skill backgrounds.
- Repair and maintenance/ replacement parts should be readily available in inventory at the manufacturers (or representatives) facility, as well as provisions for field service support capability if required.
- The proposed goal for cleaning effectiveness should, at a minimum, equate to a min. 98% debris removal (estimated) following the initial single "pass" of the cleaning equipment. Although intended primarily for use at the NESPS, the adaptability of the equipment (and/or accessory equipment) for use at other facilities would be considered a desirable additional feature.
- Power supply for the equipment may be electric, pneumatic, or water/hydraulic. However, electric power is decidedly less favorable due to the inherent wet well conditions.
- Currently, the NESPS wet well does not have capabilities for permanent auxiliary heating, although this option remains under consideration. Ideally, the bar screen cleaning equipment (and crew) should operate under existing ambient temperatures as well as for storage during extended interim idle periods.
- While not a primary concern, the simultaneous removal of accumulated grease buildup (known in the Wastewater Industry as "FOG", an acronym for "fats, oils, and grease") is also considered advantageous. This stubborn buildup acts to attract debris and over time also reduces the flow-through capacity of the bar screens.

Literature Search for Products

A desktop review of the available equipment in the wastewater marketplace was conducted to determine availabilities that may adequately address most, if not all, of the previously listed criteria. In general, there exists a significant number of manufacturers who specialize in the water and wastewater equipment industry, and in particular equipment for the "headworks" (i.e., dealing with flow before it enters the pumping or preliminary treatment phases of a treatment handling facility).



Discussions with manufacturer's representatives clearly pointed to their objective of providing screening, removal, containment, and disposal of the debris collected by screening equipment rather than physically degrading and reducing it to a "dimensionally pumpable" condition. While these are normally desirable functions, the intent of the NESPS screening concept is to pulverize the debris to a condition where recovery will appropriately occur at the further downstream GLWA treatment facility where these processes are already in place.

The manufacturers whose product lines were reviewed included Franklin-Miller, Headworks Inc. (whose equipment is currently in use at the WRC George W. Kuhn CSO Facility), Lakeside Equipment Corp., NLB Corp, Bio-Lynceus, and several other firms. Numerous additional firms were examined but were found to only offer lagoon-cleaning apparatus and were deleted from further consideration. Investigated also (albeit briefly) were manufacturers such as Vaughan who offer a high quality, efficient line of "chopper pumps". However, with respect to their gross inability to handle the necessary large flow capacity and head requirements, and more importantly that the NESPS facility already will possess new pumping equipment, they were also eliminated from consideration early.

The majority of the equipment reviewed exhibited a high degree of sophisticated manufacturing and controls technology and generally represented the state of the art for wastewater and industrial treatment plant installations. However, without exception, the design intention of the equipment is to clean the bar screens, collect the detritus out of the wastewater stream, and convey it in some manner to other internal disposal processes. None of the equipment offerings investigated provided a means to simply and efficiently clean the bar screens and allow the waste material to be transported in the wastewater stream. The sole exception noted to date is the high pressure water jet technology from NLB Corporation which features cutting action water jets to clear the screens of accumulated debris (including paper textiles) and encourage the transport of removals into the pumped wastewater stream.



Findings

Accordingly, additional investigation was directed toward the NLB innovation, including an evaluation of cost parameters. In concept, the NLB waterjet apparatus involves the use of a custom designed and manufactured jetting head with manifold orifices that convey a series of strategically directed high pressure (10,000 psi) water jets that work to both dislodge accumulated debris on the bar screens and also shred and pulverize it. This aggressive action allows the material to be carried safely into the suction well where it can be transported downstream under normal pumping conditions. It is suggested that to maximize efficiency, one (or more) of the main NESPS sewage pumps should be in operation during screen cleaning to assist in the transport of the debris to the downstream interceptor. Note that during the cleaning operation, the use of steel stop plates ("stop logs") is not required and Flow Control Management (i.e. pumping shutdown) of the NESPS is not affected. The operation of the equipment presumably would require a typical three man crew with one pump operator monitoring the portable high pressure pump at ground level while a two man team works to monitor the effectiveness of the cleaning operation in the wet well. At no time are personnel required to work within the lower extremities of the wet well intake screen or suction well areas, and neither are they exposed to direct contact with the wastewater or debris accumulations. As cleaning operations continue, accumulations of heavy or particularly "stubborn" materials can receive a repeated cleaning cycle if necessary to provide a complete removal of debris.

The NLB equipment arrangement proposes the use of a custom cutting head which represents a capital expenditure by the project Owner, due to its design being uniquely fitted to the NESPS screen pattern with its typical 4" wide bar spacing (note that this spacing is also common to other bar screens in many wastewater installations). The high pressure water jet is provided by diesel powered portable pumping equipment expressly designed to produce the adjustable 10,000 psi pressure at the jet orifices considered as necessary to effectively "shred" virtually all materials that may accumulate. Unusual debris such as large timbers or vehicle tires may be the exception. The high pressure pump is acknowledged to be a specialized apparatus requiring a significant capital investment to acquire. Accordingly, due to the capital cost of acquisition and infrequent utilization,



outright purchase of this equipment is not recommended. The equipment is, however, available locally (Wixom, MI) on an as-needed, short term rental basis and being trailer mounted, can be easily towed to the jobsite by light vehicles.

Operation of the equipment is relatively straightforward, and following initial training, typical facility or subcontractor maintenance personnel should be capable of mobilizing and operating the equipment in a safe, efficient manner [Note: It is suggested that the subcontractor who is performing the current manual cleaning operation be considered for the jet cleaning, if adopted. The current cleaning subcontractor (Doetsch Environmental) is an experienced long time owner and user of NLB equipment and possesses familiarity with its operation].

While there are other manufacturers of high pressure water jetting equipment, NLB retains the advantages of being a locally based, well established entity with quality engineering, manufacturing, field service, and extensive parts inventories readily available at their Wixom, Michigan headquarters. In addition, their prior experience with high pressure water jet cleaning in associated industries offers distinct advantages with design innovation, and their established reputation for robust, dependable equipment is well recognized in the municipal field.

For purposes of further evaluation of the relevant economic considerations of this procedure, a preliminary cost opinion breakdown is attached as supplementary information.

Conclusion

Upon completion of final evaluations, it is recommended that the Proposal for the Wet Well Bar Screen Cleaning Concept "Proof of Principle" as prepared by NLB Corporation be approved for use at the Wet Well Bar Screen installation at the Northeast Sewage Pumping Station on a demonstration basis. In addition, it is suggested a budgetary allowance be provided for support assistance during the actual field demonstration in the NESPS Wet Well.



Memorandum (continued)

NLB Corp., as evidence of their confidence in the successful performance of the Water Jet Cleaning concept, has provided a quotation for an initial on-site demonstration of the prototype equipment in the NESPS Wet Well. The demonstration will require additional support by an outside Contractor (such as Doetsch Environmental) to assist with the logistics of equipment handling, water and air systems supply, and general support assistance. A summary of this proposed test procedure is attached for review.

Attachments:

- Photographs
- Product Literature
- Preliminary Budget Analysis

Agenda Item No. 7

Engineering Work Orders



Oakland-Macomb Interceptor Drain Drainage District

TO: Michael Gregg, Chairperson
Oakland-Macomb Interceptor Drain Drainage Board

FROM: Evangelos Bantios, P.E., Oakland County Water Resources Commissioner
Stephen Downing, Macomb County Public Works Commissioner’s Office

SUBJECT: Contact Extension for METCO for Operation, Maintenance, and Management of
Northeast Sewage Pumping Station and OMID System

DATE: December 20, 2023

METCO is currently performing operational, maintenance, and management of the Northeast Sewage Pump Station (NESPS) and Oakland-Macomb Interceptor Drain (OMID) System in accordance with Contract #5517. The main objective of the contract is to ensure an adequate level of preventative and corrective maintenance is performed on all pumps, control structures and associated systems such that sufficient pumping capacity is available during the dry weather and wet weather conditions and that the control structures are available to provide in-system storage for the various project occurring on the OMID and NIEA systems. Since the execution of the above-referenced contract, multiple critical pumping system equipment, including main transformers, switchgear, pump motors, synchronizing module and the pumps have failed frequently resulting in adverse impact to the available pumping capacity of the facility. In addition to all the other services METCO provides daily, they are currently working on replacing the variable frequency drive (VFD) on Pump No. 4. The attached engineering work order (EWO) extends METCO’s services for an additional two years.

METCO will continue to provide operation, maintenance, and management of the Northeast Sewage Pumping Station and OMID system. The specific services are outlined in the attached EWO and METCO proposal dated October 23, 2023. The proposed fees for the services over the next two years are as follows:

Year 2024	\$929,278.12
Year 2025	\$750,165.84
Total:	\$1,679,443.96

RECOMMENDED ACTION: Approve the attached Engineering Work Order to extend METCO’s existing contract #5517 for an additional two years for a not to exceed amount of \$1,679,443.96. These funds have already been accounted for in the OMID maintenance budget.

**Jim Nash Oakland County Water Resources Commissioner
Oakland-Macomb Interceptor Drain Drainage District
Northeast Sewage Pumping Station Pump & Electrical Upgrades**

Engineering Work Order No. D-465 (2)

Date: 11/15/2023

To: METCO Services, Inc.

For: Additional Professional Services for Operation, Maintenance, and Management of Northeast Sewage Pumping Station and OMID System

DESCRIPTION

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the operation, maintenance, and management of the Northeast Sewage Pumping Station (NESPS) and Oakland Macomb Interceptor Drain (OMID) System that falls under the sections of Contract #5517. This EWO serves as your approval for compensation of the following additional services, as delineated in METCO Services, Inc. (METCO) proposal date October 26, 2023, which includes the following scope:

3.0 OPERATIONAL PLAN MAINTENACE AND FLOW CONTROL

3.1 MAINTENANCE OF EXISTING PUMPING SYSTEM AND ASSOCIATED AUXILLIARY SYSTEM ASSETS

- Coordinate with GLWA operational staff on the status of the pumping capacity requirement.
- Engage the services of appropriate technical personnel/contractors of OMIDD to investigate the cause of failure.
- Mobilize the appropriate on-call technical resources to initiate remedial action.
- Monitor the progress of the repair work and initiate interim measures such as flow control measures to maintain the OMIDD system level.
- Supplement GLWA operations with OMIDD pump as required.
- Continuous monitoring of system operational capability during the outage of the pumping unit(s). This might last for few days to few weeks depending upon the severity of the fault causing the failure and the extent of repair required to address the defect.
- Confirm the functionality of the pump system after the necessary repair work is complete.
- Maintain and generate necessary work order from the Asset Management System.
- Prepare and submit to OMIDD, incident status report and a final report upon successful redeployment to full operation of the failed asset.

3.2 MAINTENANCE - CONSTRUCTION COORDINATION

- Meetings as required with CM/OMIDD to discuss and finalize the system outage requirement and the schedule for removal/demolition of existing pumping system equipment.

**JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

Page 1 of 4

08/22/2022

- Prepare and submit report summarizing the Coordinate and notify GLWA System Operation on the outage requirements and potential impacts to pump station operation.
- Monitor the system condition and initiate flow control measures as required during the removal/demolition of existing system.
- Restore the system to normal mode of operation after the demolition activities are complete.
- Prepare and submit status report to OMIDD at the end of the process.
- Monitor the installation of new pumping equipment for any potential impacts or interruption to the existing operation.
- Coordinate with GLWA System Operation during the tie in of new system.
- Provide coordination between OMIDD/CM/GLWA during the startup and commissioning of the new system/equipment.
- Prepare and submit report on the commissioning status.
- Coordinate with CM for the regular/ preventive maintenance schedule recommended by manufacturer of new system/equipment.

3.3 FLOW CONTROL MANAGEMENT AND LOCK-OUT, TAG-OUT OF OMID CONTROL STRUCTURES FOR ONGOING AND FUTURE OMID PROJECTS

- Review the dry weather and wet weather flow information and identify the flow control requirements for OMID system.
- Coordinate with OMID in executing the applicable flow control measures and operation schedule.
- Monitor, collect and document level and flow data and report daily to OMID and the Contractor.
- Field coordination with Contractor.
- Validation of System Isolation and Lock Out/Tag Out prior to Contractor entry and exit of the work area(s).
- Monitoring of Contractor activities.
- Coordinate for system restoration.
- Confirmation of system to "Normal Controls" & documentation.
- Coordination of maintenance activities with maintenance contractors and OMID Staff.
- Visual inspection of all Control Structures on weekly basis; report any issues.
- Submit monthly report to OMID Board and Staff of major maintenance activities on OMID Control Structures and NIEA Structures.
- Update NEXTGEN with all these Assets and generate work maintenance orders from the System.
- Provide professional services as required.

4.0 MAINTENANCE OF ASSET MANAGEMENT (2024 and 2025)

- Update the NEXGEN Asset Management System to add assets by inputting all required information into the system to generate preventive and corrective maintenance schedule.
- review of the contractor's submittals for maintenance requirements for adequacy of critical spare parts, maintenance procedure details, etc.

- Administrative maintenance of the NEXGEN database with the new maintenance initiatives including building the asset inventory and asset plan for the construction projects at Control Structure No. 9 (CS-9) and NESPS.
- Implementing as-needed preventive maintenance tasks to be tracked and managed in NEXGEN, and configuring inspection forms for daily/weekly walk-throughs, safety checks, or inspections.
- Building upon the Warehouse Module within the NEXGEN software to allow for organization, management, and tracking of any spare parts for OMIDDD assets.
- Design and implement enhancements to the projects module that will allow for better organization of record documents and reference files. The enhancements will involve configuration of the Projects Module.
- Configuring the custom Performance Reports out of the NEXGEN database, which would be streamlined and scheduled to be generated on a continuing basis. Some examples of these types of reports include annual reports for maintenance of assets for Great Lakes Water Authority (GLWA), real-time status reports of current work orders, upcoming/schedule preventive maintenance tasks,
- Using the Asset Management (AM) Planning module within NEXGEN can assist OMIDDD in budgeting for and prioritizing asset replacement via future capital improvement projects and maintenance initiatives. METCO will coordinate with OMIDDD through a series of future workshops as required to tailor the NEXGEN database for the desired level of service.
- Input the pipe and manhole condition assessment data into the NEXGEN database to update the pipe and manhole asset condition metrics.

5.0 STAFFING AND KEY ROLES

- A METCO team comprising of four (4) experienced members will work in coordination with the Oakland and Macomb Counties and their Contractors and Agents.

6.0 LEVEL OF EFFORTS

The proposed fees for the above services over the next two years are as follows:

Year 2024	\$929,278.12
Year 2025	\$750,165.84
Total:	\$1,679,443.96

Fees for this Engineering Work Order shall be billed on a time and material basis according to the contract standard fee and rate schedule as modified by your proposal. The total amount of the Engineering Services Agreement is to be increased by a not to exceed amount of \$1,679,443.96. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.

RECOMMENDED	DATE: 12/12/2023	ACCEPTED	DATE: 12/12/2023
By: <i>Jack Puscas</i>		By: <i>Raj Vijayendran</i>	
Jack Puscas, E.I.T. Project Engineer OCWRC		Raj Vijayendran, P.E. President METCO Services, Inc.	
APPROVED			
APPROVED	DATE: 12/12/2023	APPROVED	DATE: 12/18/2023
By: <i>Evangelos Bantios</i>		By: <i>Steven Korth</i>	
Evangelos Bantios, P.E. Assistant Chief Engineer OCWRC		Steve Korth Special Projects Manager OCWRC	
Approved by the Drainage District Board on:			

Department No.:	6010101	Account No.:	SC730373
Fund No.:	FND82912	Program No.:	PRG149130
Project No.:	N/A	Project Activity:	N/A
Contract No.:	CCN5517	Contract Exp:	12/31/2023



Oakland-Macomb Interceptor Drain Drainage District

**TO: Michael Gregg, Chairperson
Oakland-Macomb Interceptor Drain Drainage Board**

**FROM: Jen Cook, P.E. Oakland County Water Resources Commissioner's Office
Stephen Downing, Macomb County Public Works Commissioner's Office**

**SUBJECT: Approval of Engineering Work Order #2 and Project Budget Increase for
Jacobs Additional Design Services on the OMID Odor and Corrosion
Control System Design Project**

DATE: December 7, 2023

ON February 16, 2022, OMID approved a contract with Jacobs Consulting, Inc. to perform investigation and design services related to the OMID Odor and Corrosion Control Project. As the work progressed minor additional tasks related to construction ventilation coordination with a Macomb Interceptor Drain Drainage District project were requested. The additional scope of work also includes two corrections to errors in Jacobs' original fee proposal dated January 14, 2022 related to OMIDDD progress meetings and design coordination meetings. Jacobs prepared a request, dated November 29, 2023, that articulated these services as well as corresponding costs. These services and associated fees are summarized as follows:

Construction ventilation coordination with MID CS-12 Project team	\$10,707
OMIDDD Progress Meetings Correction	\$32,868
Monthly Design Coordination Meetings Correction	\$47,254
Total	\$90,829

The attached Engineering Work Order has been prepared for the above scope of services and corresponding costs. This increases the total allowed project amount under this contract to \$1,054,053. There is no impact to overall schedule. We are targeting bidding on this project for Spring 2024.

Requested Action: Approve the attached Jacobs Engineering Work Order to compensate for additional tasks and corrections to original fee proposal related to the OMID Odor and Corrosion Control System Project.

**Jim Nash Oakland County Water Resources Commissioner
Oakland-Macomb Interceptor Drain Drainage District
For the OMID Odor and Corrosion Control System Design Project
Sterling Heights
Macomb County, Michigan**

Engineering Work Order No. 2

Date: 12/7/2023

To: Jacobs Consultants Inc. Contract No. 9788



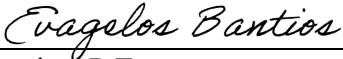
For: Additional Out-of-Scope Engineering Design Services

DESCRIPTION

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the OMID Odor and Corrosion Control System Design Project that falls under sections of Contract No. 9788. This EWO serves as your approval for compensation of the following additional services as delineated in your attached November 29, 2023 proposal. In summary, additional work included the following tasks and associated fees:

Construction ventilation coordination with MID CS-12 Project team	\$10,707
OMIDDD Progress Meetings Correction	\$32,868
Monthly Design Coordination Meetings Correction	\$47,254
Total	\$90,829

Fees for this Engineering Work Order shall be billed on a time and material basis according to the contract standard fee and rate schedule as modified by your proposal. The total amount of the Engineering Services Agreement is to be increased by a not to exceed amount of \$90,829. This increases the total allowed project amount under this contract to \$1,054,053. This amount is not to be exceeded without written authorization from this office.

RECOMMENDED	DATE: 12/7/2023	ACCEPTED	DATE: 12/13/2023
By: 		By: 	
Jen Cook, P.E. Civil Engineer III OCWRC		Shawn Thompson Vice President Jacobs Consultants, Inc.	
APPROVED	DATE: 12/9/2023	APPROVED	DATE: 12/11/2023
By: 		By: 	
Stephen Downing Construction and Maintenance Manager MCPWO		Evans Bantios, P.E. Assistant Chief Engineer OCWRC	
Approved by the Drainage District Board on:			

**JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

Cost Center:	6010101	Account No.:	730639
Fund No:	FND82912	Program No.:	PRG149667
Project No:	PRJ 1-17059	Project Activity:	ENG CONSULT
Contract No:	9788	Contract Exp:	2/15/2025

November 29, 2023

Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) c/o:

Ms. Jen Cook, P.E.
Oakland County Water Resources Commissioner
One Public Works Drive, Building 95 West
Waterford, MI 48328-1907

Mr. Stephen Downing
Macomb County Public Works Commissioner's Office
21777 Dunham Road
Clinton Township, MI 48036-1005

Subject: Design for Odor and Corrosion Control Systems within the Oakland-Macomb Interceptor Drain
Requested Additional Engineering Services for EWO No. 2

Dear Ms. Cook and Mr. Downing:

Based on our recent discussions and direction from both counties, Jacobs prepared a summary of additional engineering services for the subject project, including:

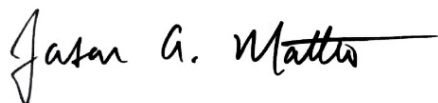
- Construction ventilation coordination with the MID CS-12 Project Team
- OMIDDD Progress meetings correction to original fee proposal
- Monthly design coordination meetings correction to original fee proposal

We have prepared the enclosed scope of work and associated fees for the requested work. A breakdown of the level of effort and fee for these additional services are also included.

Given the above, we respectfully request your consideration to amend our budget for this contract to include an additional **\$90,829.00** via EWO No. 2 for the additional effort required for this important project.

Please contact me at 586-453-8666 with any questions regarding our additional efforts.

Respectfully,



Jason A. Matteo, P.E.
Client Account Manager/Senior Project Manager

ATTACHMENTS

Attachment A: Scope of Work for Additional and Corrected Professional Services

Attachment B: Annotated Copy of Original Fee Proposal

Attachment C: Level of Effort and Fee Breakdown for Additional and Corrected Professional Services

ATTACHMENT A

Scope of Work for Additional and Corrected Professional Services

Oakland-Macomb Interceptor Drain Drainage District Design for the Odor and Corrosion Control Systems within the OMID

November 29, 2023

This scope of work document presents descriptions of additional requested professional services for tasks completed and future work. The additional scope of work also includes two corrections to errors in Jacobs' original fee proposal dated January 14, 2022 related to OMIDDD progress meetings and design coordination meetings. An annotated copy of the original fee proposal is attached. In addition, our level of effort and associated fee are attached.

Task 1. Construction Ventilation Coordination with MID CS-12 Project Team

The Macomb Interceptor Drain Drainage District (MIDDD) contracted with the FK Engineering (FKE) team to design and oversee construction of Control Structure No. 12 (CS-12). CS-12 is located on the Macomb Interceptor Drain (MID), just upstream of the confluence with the Oakland-Macomb Interceptor Drain (OMID). As part of Jacobs' investigation related to providing an odor/corrosion system at Control Structure No. 6 (CS-6), the CS-12 project team requested Jacobs' assistance in developing options for temporary ventilation during construction and possibly reusing portions of this temporary ventilation system in the final design of the odor system at CS-6. Below are the additional tasks completed by Jacobs.

Additional Tasks Completed:

- Coordination with ASI on ventilation options as part of site visit on 11/16/22
- Preparation and attendance on conference call with ASI/FKE on 12/6/22
- Evaluation of CS-12 construction ventilation options
- Reviewed MID specifications and determined air flow rates
- Conducted an internal meeting for CS-12 NFPA access ventilation requirements
- Preparation and attendance on conference call with OMIDDD on 12/14/22

Task 2. OMIDDD Progress Meetings Correction

During a recent review of the level-of-effort worksheet in Jacobs' original fee proposal for the project, we discovered that effort (hours) for OMIDDD progress meetings was inadvertently excluded. A total number of six (6) progress meetings was assumed. We anticipate that approximately eight (8) progress meetings will be required; however, we request consideration for approval of budget for only six (6) progress meetings as originally proposed. Refer to Attachment B for an annotated copy of the original fee proposal that excludes the necessary effort and fee to facilitate these OMIDDD progress meetings.

Task 3. Monthly Design Coordination Meetings Correction

During a recent review of the level-of-effort worksheet in Jacobs' original fee proposal for the project, we discovered that effort (hours) for monthly design coordination meetings was inadvertently excluded. A total number of six (6) progress meetings was originally assumed. We estimate that several additional monthly design coordination meetings were held given that the original design schedule was extended by approximately 1 year; however, we request consideration for approval of budget for only eight (8) monthly design coordination meetings. Refer to Attachment B for an annotated copy of the original fee proposal that excludes the necessary effort and fee to facilitate these design coordination meetings.

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ATTACHMENT C: Level-of-Effort and Fee Breakdown for Additional and Corrected Professional Services

Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)

Design for Odor and Corrosion Control Systems within the OMID

November 29, 2023

Task No.	Task Description	Project Manager		Senior Technical Consultant		Design Manager		Odor/Corrosion Project Engineer		Project Engineer		Discipline Lead	
		Jason Matteo		Bill Desing		Andy Schrank		Steve Graziano		Gupta, Medhavi		Typical	
	Using Multiplier of 2.84 per Contract and 2023 Hourly Rates:		\$313.71		\$320.38		\$256.93		\$162.50		\$100.85		\$193.12
		Hours	Fees	Hours	Fees	Hours	Fees	Hours	Fees	Hours	Fees		Fees
Work Completed To-date													
1	Construction Ventilation Coordination with MID CS-12 Project Team												
	Coordinated with ASI on ventilation options during site visit 11/16/22		\$0	1	\$320		\$0	3		3	\$303		\$0
	Prepared for and attended conference call with ASI/FKE on 12/6/22	2	\$627	1	\$320	1	\$257	2	\$325	1	\$101		\$0
	Evaluated CS-12 construction ventilation options	2	\$627	3	\$961	3	\$771	3	\$488		\$0		\$0
	Reviewed MID specifications and determined air flow rates	1	\$314	3	\$961		\$0	3	\$488		\$0		\$0
	Conducted internal meeting for CS-12 NFPA access ventilation	1	\$314		\$0	1	\$257	1	\$163		\$0	2	\$386
	Prepared for and attended conference call with OMIDDD on 12/14/22	2	\$627	2	\$641	2	\$514	4	\$650		\$0		\$0
	Task 1 Total Effort	8	\$2,510	10	\$3,204	7	\$1,799	16	\$2,113	4	\$403	2	\$386
2	OMIDDD Progress Meetings Correction												
	OMIDDD Progress Meetings ([6] 2-hr meetings to date)	18	\$5,647	18	\$5,767	18	\$4,625	18	\$2,925		\$0	72	\$13,905
	Task 2 Total Effort	18	\$5,647	18	\$5,767	18	\$4,625	18	\$2,925	0	\$0	72	\$13,905
3	Monthly Design Coordination Meetings Correction												
	(6) 2-hr monthly meetings, plus additional (2) 2-hr monthly meetings	24	\$7,529	24	\$7,689	24	\$6,166	24	\$3,900		\$0	96	\$18,540
	Task 3 Total Effort	24	\$7,529	24	\$7,689	24	\$6,166	24	\$3,900	0	\$0	96	\$18,540
	TOTAL EFFORT AND FEE (Tasks 1 through 3)	50	\$15,685	52	\$16,660	49	\$12,590	58	\$8,938	4	\$403	170	\$32,830

ATTACHMENT C: Level-of-Effort and Fee Breakdown for Additional and Corrected
Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)
Design for Odor and Corrosion Control Systems within the OMID
November 29, 2023

Task No.	Task Description	Ventilation Modeler		System Operation & Hydraulic Modeling		Administration, Accounting, Editing		Total Hours by Task	Total Labor By Task	Jacobs Expenses	Total by Task
		Melissa Berry		ASI		Sandy Pepper					
		Using Multiplier of 2.84 per Contract and 2023 Hourly Rates:									
		Hours	Fees	Hours	Fees	Hours	Fees				
Work Completed To-date											
1	Construction Ventilation Coordination with MID CS-12 Project Team										
	Coordinated with ASI on ventilation options during site visit 11/16/22		\$0		\$0		\$0	7	\$623	\$0	\$623
	Prepared for and attended conference call with ASI/FKE on 12/6/22		\$0		\$0		\$0	7	\$1,631	\$0	\$1,631
	Evaluated CS-12 construction ventilation options	2	\$292		\$0		\$0	13	\$3,139	\$0	\$3,139
	Reviewed MID specifications and determined air flow rates		\$0		\$0		\$0	7	\$1,762	\$0	\$1,762
	Conducted internal meeting for CS-12 NFPA access ventilation		\$0		\$0		\$0	3	\$1,119	\$0	\$1,119
	Prepared for and attended conference call with OMIDDD on 12/14/22		\$0		\$0		\$0	10	\$2,432	\$0	\$2,432
	Task 1 Total Effort	2	\$292	0	\$0	0	\$0	47	\$10,707	0	\$10,707
2	OMIDDD Progress Meetings Correction										
	OMIDDD Progress Meetings ([6] 2-hr meetings to date)		\$0		\$0		\$0	72	\$32,868	\$0	\$32,868
	Task 2 Total Effort	0	\$0	0	\$0	0	\$0	72	\$32,868	\$0	\$32,868
3	Monthly Design Coordination Meetings Correction										
	(6) 2-hr monthly meetings, plus additional (2) 2-hr monthly meetings		\$0		\$0	32	\$3,430	128	\$47,254	\$0	\$47,254
	Task 3 Total Effort	0	\$0	0	\$0	32	\$3,430	128	\$47,254	\$0	\$47,254
	TOTAL EFFORT AND FEE (Tasks 1 through 3)	2	\$292	0	\$0	32	\$3,430	247	\$90,829	\$0	\$90,829

Agenda Item No. 8

Change Order

CHANGE ORDER NO. THIRTY-NINE

Oakland Macomb Interceptor Drain, Drainage District (OMIDDD)

For Construction of the Pump and Electrical Upgrades Project

Northeast Sewage Pumping Station (NESPS)

Located in the City of Detroit, Wayne County, Michigan

**CONSTRUCTION MANAGER,
AT RISK (CMAR)
Walsh Construction Co. II, LLC**

Authorization for: 1.) Wet Well Elevator Mechanical and Electrical Package; 2.) Generator Foundation slab partial removal; 3.) Drainage Structure Addition; 4.) Concrete Paving modifications at Wet Well; 5.) Adjustments to Site Grading; 6.) Fuel Contaminated Soil Mitigation; 7.) Electrical Handhole Replacement; 8.) Change Order Accounting Adjustment.

Address:

Walsh Construction Co. II LLC
3031 West Grand Blvd., Suite 640
Detroit, MI 48202

Change Order No. 39 Date: December 08, 2023

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	<p>LOCATION:</p> <p>The Northeast Sewage Pumping Station (NESPS) Detroit, Wayne County, Michigan</p> <hr/> <p>DESCRIPTION (Extra/ Add):</p> <p>Provide compensation for the Electrical and Mechanical requirements for the Wet Well Elevator Rehabilitation.</p> <p>REASON:</p> <p>The complete reconstruction of the existing Wet Well Elevator requires modifications and general upgrades to the existing electrical and mechanical systems that support the elevator's operation. The previously approved Change Order for the elevator replacement addresses the elevator itself, and this Change Order will address other major building modifications necessary for the elevator's operation.</p>					
39 -1		LS	1 ea.	\$314,334.42	\$314,334.42	-0-

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
39 -1	<p>Addressed in this Change are work items including demolition of existing (obsolete) elevator equipment, mechanical changes for the elevator pit drainage function, replacement of the steel screen and door frame entry at the lower "mezzanine level", replacement of exterior doors and frames at the machine room entrance, machine room ventilation improvements, electrical system upgrades for power and instrumentation requirements, and painting of exposed steel structural members.</p> <p>Noted further is the significant requirement that all electrical components must satisfy the rigid Class I, Division I code specifications for Hazardous Atmosphere conditions.</p> <p>Attachments: Walsh Construction Co. PCI 970195</p>					
39 -2	<p><u>DESCRIPTION: (Change/Add):</u></p> <p>Remove portions of the existing Standby Generator foundation slab to allow for the full width construction of the adjacent site roadway.</p> <p><u>REASON:</u></p> <p>The previous "Y-2K" era construction by DWSD of the heavy concrete base slab for the standby generator complex partially encroached into the proposed NESPS westerly concrete site access roadway. Limited by site security fencing on the opposite side, it was deemed necessary to remove a longitudinal, full length tapered "edge" section of the generator slab.</p> <p>Due to the massive construction of the slab concrete, specialty concrete sawcut services were required to allow for a neat-line removal of the concrete without disturbing the remaining slab integrity. Included also is an upgraded pavement joint detail between the generator slab and the new roadway to ensure long term performance.</p> <p>Attachment: Walsh Construction Co. PCI # 970205</p>	LS	1 ea.	\$11,126.60	\$ 11,126.60	-0-

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
39 -3	<p><u>DESCRIPTION: (Change/ Add)</u></p> <p>Install a new drainage structure and associated underground drain lines to address site drainage issues adjacent to the new Electrical Building.</p> <p><u>REASON:</u></p> <p>Construction of the new NESPS Electrical Building and site roadway improvements created an isolated condition where surface runoff was prevented from reaching a natural collection point. The solution was to install a new drainage structure ("catch basin") with the necessary underground piping to convey flow to a nearby manhole. The drainage work required installations under, or adjacent to, the proposed concrete site paving and thereby required fully compacted Cl. II sand backfill.</p> <p>Attachment: Walsh Construction Co. PCI 970210</p>	LS	1 ea.	\$ 14,342.36	\$ 14,342.36	-0-
39 -4	<p><u>DESCRIPTION: (Change/ Add):</u></p> <p>Modify the proposed site paving plan to improve access to the Wet Well grade level Hatch Opening.</p> <p><u>REASON:</u></p> <p>Final site grading for the proposed site roadway adjacent to the Wet Well access hatch opening suggested paving improvements were possible to enhance access to the Wet Well top slab for vehicular and cleaning equipment. The work involved the addition of approach ramps, concrete slab depth increases, safety bollard location changes, and related detailed work.</p> <p>Attachment: Walsh Construction Co. PCI 970214</p>	LS	1 ea.	\$ 4,033.51	\$ 4,033.51	-0-
39 -5	<p><u>DESCRIPTION (Change/ Add):</u></p> <p>Perform site grading adjustments to "blend" the finish elevations of the new site roadway with the existing surface elevations adjacent to the curb and/or roadway surface.</p>	LS	1 ea.	\$ 26,291.73	\$26,291.73	-0-

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
39 -5	<p><u>REASON:</u></p> <p>Completion of the site roadway improvements allowed for final grading of the existing site contours to conform to, and/ or transition with, the adjacent soft-surfaced (turf) conditions.</p> <p>In particular, the northwesterly quadrant of the site required significantly greater grading adjustments than other areas due to the existing natural condition of the site contours.</p> <p>Attachment: Walsh Construction Co. PCI 970215</p>					
39 -6	<p><u>DESCRIPTION (Change/ Add):</u></p> <p>Provide compensation related to the investigation and disposal of contaminated (diesel fuel) soils adjacent to the standby Generator slab.</p> <p><u>REASON:</u></p> <p>The removal of existing concrete pavement and subsequent sub-base excavation disclosed the presence of soil contaminated by apparent diesel fuel accumulation. This condition is presumed to result from minor fuel spillage that occurred from routine tank filling and/or system maintenance activities that took place during the preceding years of generator operations.</p> <p>Once discovered, the Engineer inspected the conditions, collected representative soil samples, and conveyed the samples to a specialized Analytical Laboratory for analysis. The soil was confirmed as contaminated, however, with levels of contamination considered acceptable for disposal at Type II Landfill facilities. The material was removed to the limits determined appropriate by the Engineer to define a "clean condition", and the material was temporarily stockpiled pending final administrative procedures.</p> <p>Attachment: Walsh Construction Co. PCI # 970217</p>	LS	1 ea.	\$ 4,718.17	\$ 4,718.17	-0-

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
39 -7	<p><u>DESCRIPTION (Change/ Add):</u></p> <p>Remove and replace an existing electrical handhole partially obstructing the proposed concrete site paving at the northwest corner of the NESPS facility.</p> <p><u>REASON:</u></p> <p>Site paving operations determined that an aged and partially damaged "Quazite" (polymer concrete) electrical handhole would be partially encroaching into the new concrete pavement. As this type of structure is unsuitable for traffic loadings, and further with the existing deteriorated condition, it was determined advisable to replace the structure with a new standard precast concrete handhole with frame and cover.</p> <p>Additionally, alignment adjustments were made to the edge of pavement limits to ensure the structure is located fully within the pavement.</p> <p>Attachment: Walsh Construction PCI 970218</p>	LS	1 ea.	\$ 8,633.38	\$ 8,633.38	-0-
39 -8	<p><u>DESCRIPTION (Change/ Add)</u></p> <p>Provide a change order accounting adjustment for a typographical error that occurred in Change Order # 38.</p> <p><u>REASON:</u></p> <p>The final calculated value for previous Change Order # 38 included a typographical error which was reflected in the approved Change Order Value;</p> <p>C.O.#38 value, as reported: \$ 29,244.28 C.O #38 value, corrected: 29,444.28</p> <p>Difference (Add): \$ 200.00</p> <p>This value is included in C.O.# 39 to correct this oversight.</p>	1	LS	\$ 200.00	\$ 200.00	-0-

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	<p style="text-align: center;">***** End of Change Order # 39</p>					
					Amount Increase	Amount Decrease
	Totals			Net Changes (Increase)		
					\$383,680.17	-0-
					\$383,680.17	

Prepared By: Lawrence T. Gilbert, P.E. Date: 12-13-23
NTH Consultants, Ltd.

Recommended By: John Michalski Date: 12/13/2023
John Michalski, P.E.
Engineer of Design, Applied Science, Inc.

Approved By: Evangelos Bantios for Date: 12/18/2023
Joel Brown, P.E.
Chief Engineer,
Construction Projects
Unit, WRC

Approved By: Stephen Downing Date: 12/15/2023
Stephen Downing
Construction and Maintenance Manager, Macomb County Public Works

Approved by: _____ Date: _____
Steve Korth, P.E.
Chief Manager, WRC

All of the Construction Manager's contractual obligations remain in place and are applicable to all work and payments identified herein. No adjustment to contract time or price shall be made for these issues except as set out in this, or by a subsequent related Change Order.

The Construction Manager agrees to do the work described above and agrees to accept Contract time adjustments in full on the basis indicated.

Accepted by: _____ Date _____
Title _____
of: Walsh Construction Co. II, Inc.

The Construction Manager is hereby authorized and instructed to do the Work described above in accordance with the terms of the Contract, as amended.

This Change Order No. 39 was approved by the Drainage Board on: _____ Date: _____



Attachment No. 1 to Change Order No. Thirty-Nine

The Engineer has reviewed the items included in this Change Order and confirms that these adjustments to the Contract are reasonable and in accordance with industry standards and the requirements of the Contract.

Contract Status Summary
Change Order No. Thirty-Nine
OMID NESPS Pump & Electrical Upgrades Project

Construction Manager at Risk: Walsh Construction Co. II

Project Award Date (Pre-Construction Services)	December 16, 2019
Notice to Proceed Date (Construction Phase)	October 23, 2020
Contract Substantial Completion Date (Original)	March 28, 2023
Contract Final Completion Date (Original)	June 22, 2023
Total GMP Contract Value (Including Control Structure 9) (Reconciled for separation of Pre-Construction Costs)	\$ 42,933,381.88
C.O. Values, # 7 through # 38, and including CS-9 C.O. # 1,2,3,4	\$ 6,476,360.50
This Change Order # 39	\$ 383,680.17
<i>Adjusted GMP Contract Value, Pump & Electrical Upgrades and CS-9 Projects (Including this C.O. # 39)</i>	\$ 49,793,422.55

Agenda Item No. 9

Construction Estimates

**Northeast Sewage Pumping Station- Pumping and Electrical Systems Upgrades Project
Located in the City of Detroit, Wayne County, Michigan**

Regular Construction Estimate No. Thirty-Eight
Page One of Two

November 01 through November 30, 2023

Department No.:	6010101	Account No.:	731472
Fund No.:	84917	Program No.:	149015
OMID Project No.:	1 3309	Activity:	FAC

Construction Manager at Risk: Vendor # 23191 LI 43331; exp. 12/16/22

Walsh Construction Co. Date of Contract: Dec. 16, 2019

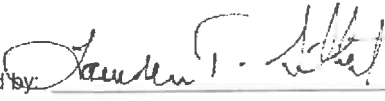
3031 West Grand Boulevard, Suite 640 (Adjusted Final Completion Date: July 28, 2023

Detroit, MI 48202 Contract No. 5977

Orig. GMP amount for Pump & Elec. Upgrades Project, and including CS-9	\$44,107,745.19
Pre-Construction Payment (Separate Accounting)	(\$1,244,560.00)
NESPS Pump & Elec. Upgrades Original Contract Budget	\$42,863,185.19
Change Orders, This Estimate: C.O. # 38	\$29,444.28
Previous C.O.s: (Numbers 7 through No. 37 and CS-9 # 1 through # 4)	\$6,432,085.73
Note: C.O. # 30 includes the budget transfer of \$70,196.70 from Pre-Con to GMP budget)	\$70,196.70
Adjusted Contract Amount including CS-9 values	\$49,409,742.38
Sub-Total To Date	\$ 39,841,306.25
Less Deductions: None	\$ -
Gross Estimate: (Work in Place - Amount Complete = 81 %)	\$ 39,841,306.25
Less Amount Reserved (max. 10% of 50% of total CV, including CS-9 value)	\$ 2,470,487.12
Total Amount Allowed To Date:	\$37,370,819.13
Less Previous Estimates:	\$37,181,896.52
Payment Due	\$188,922.61
Reserve Pay to Contractor:	\$0.00
Balance to Finish: \$ 9,568,436.13	Accounting Auditor:
Amount to be Reserved	2,470,487.12
Less Previous Transfer to Reserve	2,469,024.89
Amount of Current Transfer	\$1,462.23

Regular Construction Estimate No. 38, November, 2023 - NESPS Pump & Electrical Upgrades

Page Two of Two

Prepared by: 

Date: 12-12-23

Lawrence T. Gilbert, P.E.; NTH Consultants Ltd.

Recommended by: 

Date: 12/13/2023

John Michalski, P.E., ASI

Recommended by: *Evangelos Bantios* for

Date: 12/18/2023

Joel Brown, P.E. Oakland County WRC

Recommended by: *Stephen Downing*

Date: 12/15/2023

Stephen Downing; Macomb County OPWC

Regular Construction Estimate No. 38, November, 2023
NESPS Pump & Electrical Upgrades Project

Approved By Board On: _____

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD
For Construction of the NI-EA OMID Contract 1 - PCI 4 Rehabilitation
Located in the City of Detroit, Wayne, Michigan
Project ID 1-00000003308


Regular Construction Estimate No. 33

Period: 11/01/23 through 11/30/23


Department No.:	6010101	Account No.:	731472
Fund No.:	84917	Program No.:	149015
Project No.:	1-00000003308	Activity:	FAC

Contractor:	Vendor # 29656 Contract # 6323	Date of Contract:	January 21, 2021
Marra Services, Inc.	LI # 44838 exp. 1/20/23	Final Completion Date:	September 9, 2022
700 E. 73 rd. Street		Adj. Final Completion:	May 12, 2023
Cleveland, OH 44103			

Original Construction Contract Amount	\$14,732,510.00
Previous Change Orders: No. One, Two, Three, Four, and Five	\$1,287,656.61
Change Orders This Estimate: None	\$0.00
Total Net Change Orders:	\$1,287,656.61
Adjusted Contract Amount:	\$16,020,166.61
Sub-Total To Date	\$14,975,014.10
Less Deductions: None	\$0.00
Gross Estimate, Work in Place 93.5% Complete	\$14,975,014.10
Less Amount Reserved (Max. at 10% of 50% of adjusted C.V.)	\$801,008.33
Total Amount Allowed To Date:	\$14,174,005.77
Less Previous Estimates	\$13,921,505.77
Net Payment Request To Be Paid To Contractor:	\$252,500.00
Reserve Payment to Contractor:	\$0.00
Balance to Finish: \$ 1,045,152.51	Accounting Auditor:
Amount to be Reserved from Above	\$801,008.33
Less Previous Transfers To Reserve:	\$801,008.33
Amount of Current Transfer	\$0.00

Prepared by: 
 Lawrence T. Gilbert, P.E.; NTH Consultants Ltd.

Date: 12-12-23

Recommended by: 
 Saju Sachidanandan, P. E.; NTH Consultants Ltd.

Date: 12/13/2023

Recommended by: _____
 (for) Joel Brown, P.E. Oakland County WRC

Date: _____

Recommended by: _____
 Stephen Downing; Macomb County OPWC

Date: _____

Regular Pay Estimate No 33; Nov. 01 through Nov. 30, 2023

Approved By Board On: _____

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD
For Construction of the NI-EA OMID Contracts 2 A and 2 B - PCI 18 and 19 Rehabilitation
Located in the City of Detroit, Wayne County, Michigan
Project ID : TBD

Regular Construction Estimate No. Four (Contr. 2-A Only)

Period: Nov. 1 through Nov. 30, 2023

Department No.:	6010101	Account No.:	TBD
Fund No.:	FND84918	Program No.:	TBD
Project No.:	TBD	Activity:	FAC

Contractor:	Vendor # TBD	Contract # TBD
Z Contractors, Inc.	LI # TBD	exp. TBD
50500 Design Lane	Final Completion Dates	Date of Contract: NTP 6/29/2023
Shelby Township, MI 48315	Adjusted Final Completion Dates: Same	Oct. 28, 2024 (2A) & June 24, 2025 (2-B)

Original Construction Contract Amount	(Contract 2-A, Only)	\$9,488,650.00
Previous Change Orders: None		\$0.00
Change Orders This Estimate: None		\$0.00
Total Net Change Orders:		\$0.00
Adjusted Contract Amount: (Contract 2A Only)		\$9,488,650.00
Sub-Total To Date		\$1,966,774.45
Less Deductions: None		\$0.00
Gross Estimate, Work in Place	20.73% Complete	\$1,966,774.45
Less Amount Reserved (Max. at 10% of completed work)		\$196,677.45
Total Amount Allowed To Date:		\$1,770,097.00
Less Previous Estimates		\$975,145.49
Net Payment Request To Be Paid To Contractor:		\$794,951.51
Reserve Payment to Contractor:		\$0.00
Balance to Finish: \$ 7,521,875.55		Accounting Auditor:
Amount to be Reserved from Above		\$196,677.45
Less Previous Transfers To Reserve:		\$108,349.50
Amount of Current Transfer		\$88,327.95

Prepared by: *Lawrence T. Gilbert*
 Lawrence T. Gilbert, P.E.; NTH Consultants Ltd.

Date: 12-12-23

Recommended by: *Saju Sachin*
 Saju Sachidanandan, P. E.; NTH Consultants Ltd.

Date: 12/13/2023

Recommended by: *JC*
 Jennifer Cook, P.E. Oakland County WRC

Date: 12/18/2023

Recommended by: *Stephen Downing*
 Stephen Downing; Macomb County OPWC

Date: 12/15/2023

Regular Pay Estimate No. Four ; November 1 through 30, 2023

Approved By Board On: _____

Agenda Item No. 10

Report/Update – Status of OMID
Project, Segments 1 through 4, NESPS,
NI-EA

Oakland Macomb Interceptor Drain (OMID) Repairs

Project Progress Update

Prepared by:

F. Klingler, P.E., B. Kelly, P.E., FK Engineering Assoc.

S. Sachidanandan, P.E., L. Gilbert, P.E., NTH Consultants, Ltd.

J. Michalski, P.E., Applied Science, Inc.; T. Moore, Metco Services, Inc.

J. Matteo, P.E., Jacobs Consultants Inc.

December 20, 2023 OMIDDD Board Meeting

The following provides a status update as of the writing of this report (December 12, 2023) for the work completed for the Oakland-Macomb Interceptor Drain Repair Program (SRF Segments 1-4; Contract 7 PCI-4 repairs; Maintenance Repairs in PCI-5 through PCI-11A; Control Structure Modifications; NIEA Repairs; NESPS Upgrades; Odor/ Corrosion Control System, and other related work):

SRF Segment 1 Status:

Contracts 1&2: Complete

System-wide Odor/Corrosion Study: Complete

Odor and Corrosion Control Design

- Project Budget: \$963,223.90
- Total Spent (approximate; through October 18, 2023): \$823,182.11
- Effort is currently on time in accordance with Jacobs' latest design schedule.

Status of Major Project Tasks:

- Jacobs continues to prepare the 100% Design package and plans to submit to OMIDDD on December 15, 2023. The 100% Design package will include the 100% Design drawings, specifications, and a comment resolution form. A future workshop/design coordination meeting will be scheduled to coordinate remaining items to advance to an "Issued for Bid" set. The Bidding Phase will likely begin after the end-of-year holidays and in early 2024.
- The design of the 15 Mile Road/ITC Corridor (CS-6) odor/corrosion control system is currently on hold until the terms for grant funding of the adjacent Sterling Heights parcel (east of the ITC Corridor) are clarified with the National Park Service (grant originator), and data from other odor control sites is available.
- Jacobs prepared and submitted the EGLE Part 41: Wastewater Permit application and will be following up with EGLE reviews. Jacobs continues to work through the City of Sterling Heights preliminary site plan and site plan permit application packages and review comments. Jacobs is also preparing responses and changes to the design in response to the Macomb County Department of Roads (MCDR) review comments for a construction in a right-of-way permit.
- Jacobs continues to support WRC on behalf of OMIDDD to identify construction contractor staging/storage area(s) for use during construction and to begin coordination with property owners.

SRF Segment 2 Status:

Contract 3 (Base Contract & C.O. 2E-2J): Complete

SRF Segment 3 Status:

Contract 4: Complete

SRF Segment 4 Status:

Contract 5A/5B: Complete

- City of Utica Use Agreement for access paths is pending; awaiting final authorization (which is close).

Contract 6: Complete

Contract 7 (NIEA 110 feet of Emergency Rehab): Complete

NESPS Odor/Corrosion Control System (No Segment or Contract No.): Complete

NESPS & OMID Maintenance, Operations & Upgrades Status:

Status of Emergency Contingency Plan for pumping during total power loss or other catastrophic system failure:

- Mersino is under contract for standby emergency bypass pumping. No activity this month.
- The OMIDDD Project Team has finalized design for keeping the 15 Mile Road bypass pumping arrangement (initially constructed in summer 2021) intact and buried below grade, pending final agreement with ITC and other easement owners. Currently under review by ITC, Sterling Heights, and coordinating with other easement holders. Final design package to be used to solicit bids from several OCVRC and MCPWS Blanket Contract Holders. Field work will follow after use of the area for storage of pipe for the MIDDD Segment 5 project (spring or early summer 2024).
- Remaining items in the final emergency plan include punch-list and optimization steps for electrification, modifications at the 15 Mile Road Site, and overall optimization of the Emergency Plan per above. The final plan document will be revised after final installation of the emergency pumping conveyance conduit.

Additional work being performed under Metco Maintenance Contract for NESPS:

- Mechanical and Electrical corrective/preventative maintenance schedules continue.
- Coordination between OMIDDD, GLWA, MIDDD, NESPS, and Pump/Electrical Upgrade Project is ongoing and has not impacted station operations or the ability to meet

demand.

- The wet well elevator remains disabled, with re-construction plans in progress. Progress toward final completion in 2024 continues with custom parts starting to arrive according to Lardner. Construction start is anticipated for April-May 2024.
- The quarterly wet well bar screen cleaning is scheduled for January 2024. The north bar screen was cleaned on September 27, 2023 during wet well isolation for Pump 5 knife gate valve (KGV 5) installation. The south bar screen remains in good condition with a cleaning date still to be determined. The project team decided on September 19, 2023 to discontinue periodic sediment inspections. AEW produced a closeout memo documenting data collected to date and reasoning behind discontinuing monitoring.
- The 25-ton crane is back in service, with a repair report on file. The four-ton crane is on standby. An annual inspection was completed November 30, 2023 o for both cranes and the report is on file.

Overall NESPS Station Performance Report by METCO:

- Mechanical: Sanitary Pumps #1 #2, #3, #5, and #6 ready for duty (Pumps #1 and #3 provisionally approved for use). Total Pumping Capacity equals 550 CFS. Contract Capacity 423cfs. Firm Capacity 400cfs. Sanitary Pump #1 is sensing high vibration upon shutdown of Sanitary Pump #3 when both are in operation. This issue is under review by Walsh and the OMID team. In the meantime, both Pumps #1 and #3 remain in rotation but in an emergency use only mode until we gather more information.
- Sanitary Pump #4 is currently out of service. The Pump #4 Variable Frequency Drive (VFD) has failed catastrophically, and the unit is no longer serviceable. A purchase order for a new Toshiba MV 2000HP VFD Drive was submitted by Rotor on October 27, 2023. The drive unit is in stock and reserved with an expected lead time of 28 weeks. Shop drawings are 12 weeks out. The project continues on track for completion in the June-July 2024 timeframe.
- New Sanitary Pumps #1 and #3 remain on limited (less than specified) pumping capacity, while provisionally approved by OMIDDD for use. Operational use of both Pumps #1 and #3 has been approved, in writing, by Flowserve. After ongoing efforts to mitigate pump capacity issues, pressure taps on the suction pipe were installed per Flowserve recommendation, in order to better diagnose the proper resolution to the issue. Based on data from the testing, it appears that a “pre-rotation” condition may exist within the intake manifold of Pumps 1, 2, and 3, which may be contributing (or causing) the reduced capacity issue. This can be better determined by conducting a physical model, which will also help determine options for correcting the condition. A physical model is now being planned. The engineering team discussed and determined that in the meantime, demolition of Pump 5 will be authorized to proceed, as the physical model will be complete in time to inform any necessary re-design of Pump 5; and because the “pre-rotation” issue is not expected in Pumps 4 through 6, due to their configuration.
- The wet well dewatering pump remains ready for duty.

- NESPS/GLWA LOTO (Lock-Out Tag-Out) final forms are complete. All personnel are required to fill out forms before any sewer entry. There have been no issues with LOTO procedures during this reporting period.
- The primary switchgear in the existing station remains double-ended with two sources of utility power (Transformer #3 and Transformer #4). Generator back-up is available if needed to power pumps Pumps #2, #5, and #6.
- Dry well submersible sump Pumps #1 and #2 are in service and ready for duty.
- Specific data logging software continues to monitor Sanitary Pump #2 VFD drive programmable logic controller (PLC). This software was instrumental in detecting the VFD faults experienced November 14, 2022, which disabled the pump.
- CMMS: NEXGEN asset management in use. Monthly status meetings are being held with OMID. Contractors are fulfilling their requirements with no outstanding issues to report.
- HVAC: Gas detection is in use. Rounds are conducted daily. Unit air filters are restocked and changed as required. Erratic spikes of H2S and methane have triggered alarm sirens and strobes inside the Pumpstation. Troubleshooting has determined that a faulty drywell chamber sensor is likely the issue. After a visit from an MSA technician on November 9, 2023, a failed PLC was confirmed to be the issue. An order for replacement has been issued. All personnel have been notified of the issue and told to resort to personal gas monitoring until corrections are made.
- Bio Filter performance has been acceptable. Irrigation process has been limited by another PLC failure. Motor City Electric has processed an order for replacement. This has not impacted the Bio-filter's ability to function at this time. The team expects to have the component installed and programmed by year's end.
- Overall General Housekeeping tasks remain in order. Minor maintenance activities continue to be addressed in a timely manner.



Failed PLC at Bio-filter

Control Structures Performance Report (CS-5, CS-6, CS-7, CS-8):

- Daily flow control operations continue to support MID/OMID/NIEA repair and improvement projects. (Weather permitting)
- Semi-Annual Preventative Maintenance completed.
- All LOTO protocols are in place.
- System-wide communications are good.
- CS-6 gate is in stand-by mode and ready for service.
- CS-5 and CS-8 in stand-by mode and ready for service.
- CS-9 in stand-by mode and ready for service. A return visit was completed by Sunsource on November 14, 2023. Below is a summary of Sunsource's onsite activities:
 - SunSource confirmed that the solenoid valves for emergency closure had failed and had been leaking internally, thus contributing to gate drift on both gates.
 - SunSource confirmed that the proxy switch fittings that had been previously replaced had also failed, causing external leakage and contributing to gate drift. These switches have been replaced with no further leakage noted.
 - SunSource replaced the solenoid valves for emergency closure on both gates. They also replaced the speed control and load control valves for both gates.
- Hydrogate performed an inspection of the gate structure and bulkhead. Hydrogate confirmed that damage to the wedges was caused by debris being lodged in gate during the opening sequence. Hydrogate will be providing a proposal for replacement options. Hydrogate did not indicate the gates could not be used without wedges and noted no other operational issues with the gates.
- No gate drift or oil leaks are apparent at this time.
- The engineering team continues to monitor gate activity and expect to ask for an extension to the warranty.
- Routine daily rounds and inspections made.

Other System Operation Issues

- O&M Manual is currently being revised to include new structures, recently modified structures, new monitoring equipment, and recent inspection and repair status.
- EGLE has informally agreed to consent to use of all flow control structures for long term flow control. Request for formal consent is promised but not yet received.

OMID Control Structure Upgrades Status:

- ASI continues design of major upgrades to control structures which takes into consideration long-term operability.
- Initial inspections, planning, and Basis of Design are complete.
- Final Design package submitted to OMID for review.
- Currently considering options for packaging and contract delivery (i.e., one or multiple contracts, etc.)
- Currently evaluating potential impacts on other projects and best timing for nodding, although start of the work is tentatively planned for Fall of 2024.

OMID System 3-Year Spot Repairs Status: Complete

OMID System 6-Year Inspection Status:

- All inspections are complete and final report is under OMID review.

NIEA Repairs (Design/Construction)

Contract 1 (PCI-4 Rehabilitation): In Construction

Amt Invoiced: Construction cost to date is \$14,722,514.1, representing approx. 91.9% of the adjusted Contract value.

Schedule Status: The adjusted Substantial Completion date is April 12, 2023. The Contractor is operating approximately 271 days behind the adjusted schedule, with time extensions requests under consideration. The Contractor has improved productivity during this reporting period. An accounting of Liquidated Damages is included with each payment application, shown as a debit against the retention account; however, funds will not be withheld until a final reconciliation of the schedule is completed.

Contract 1 (PCI-4 Rehabilitation) Construction Status:

- Channeline lining is complete with approximately 1,334.5 linear feet grouted in place.
- QuakeWrap lining is complete with approximately 180 feet grouted in place.
- RockHard SCP lining is complete with approximately 185 feet grouted in place.
- Work is currently underway on the end-taper segments of the lining. Substantial completion of the Access Structure is projected for January 2024.
- The current construction cost to date is \$14,975,014.10, representing 93.5% of the total current contract value. Overall substantial completion of the project is expected by January 2024.
- Geotechnical monitoring of construction activities at the access shaft location indicates continuing stable conditions.



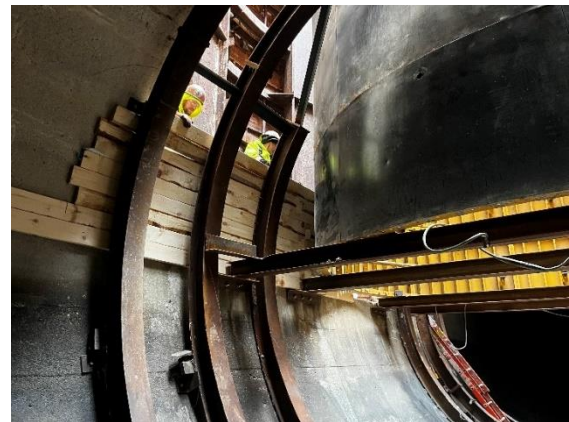
Contractor pouring Quadflow for lining transition section



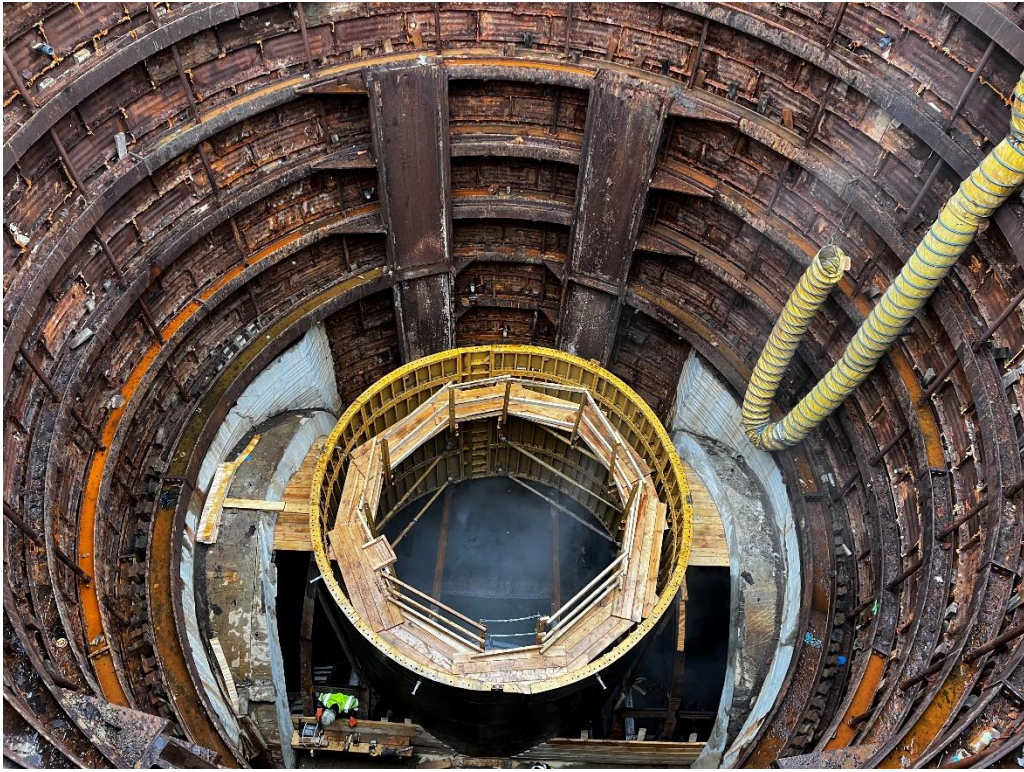
Subcontractor filling dewatering wells at Access Shaft



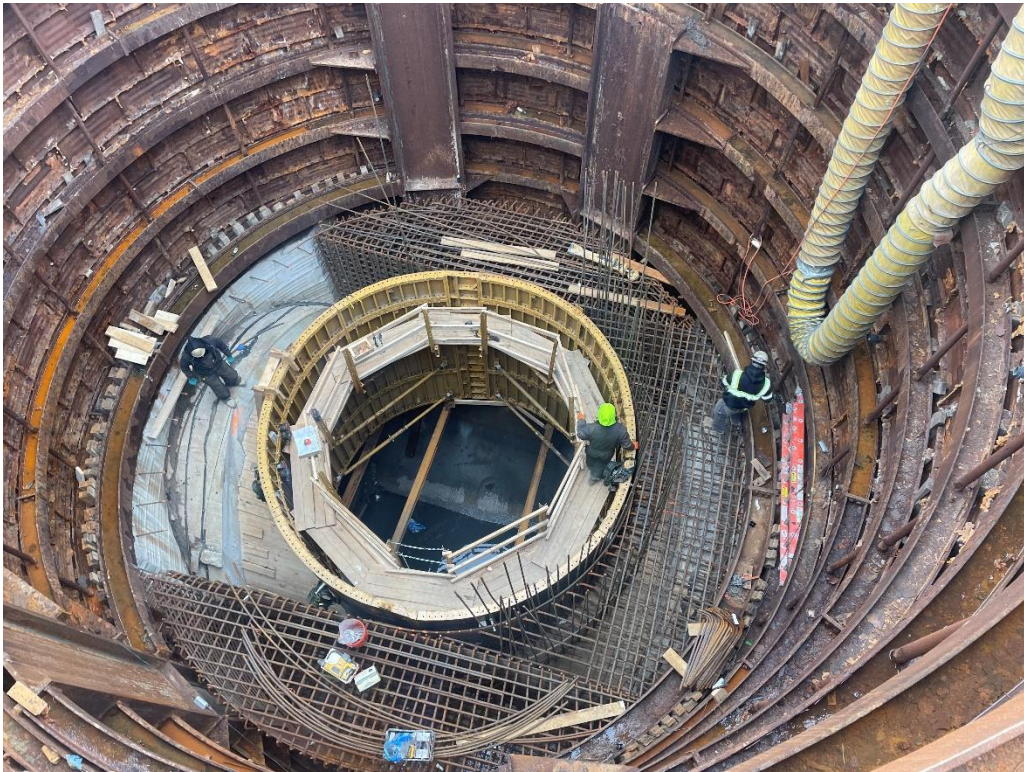
Contractor smoothing RockHard joints



Placement of initial formwork within pipe



Formwork for Access Structure



Progress of rebar installation at Access Structure

Contract 2A (PCI-18/19 Rehab): In Construction

Amt Invoiced: \$1,966,774.454 out of \$12,596,800 (construction, Contract 2A only) representing 20.7 % complete.

Schedule Status: Contract 2A: Approximately 60 + days behind as a result of permit and watermain relocation issues; this time will be credited to the Contractor, with no increase in construction budget.

Contract 2 (PCI -18/19 Rehabilitation) Design Status:

- Physical work is commencing following a “Right of Entry” agreement with the City of Detroit for a laydown area at East Brentwood Street and Van Dyke.
- The Contractor has prepared the site laydown area (Van Dyke Ave at E. Brentwood St.). Traffic control equipment has been moved on site, and MDOT has approved the temporary traffic control plan with work also underway on signal, lane closure, and signage revisions.
- An informational flyer explaining the project has been delivered to residents and local businesses.
- The fourth Application for Payment for work performed by the contractor (\$794,951.51, for total billings to date of \$1,966,774.45) is under review by the Project Team
- Work has been completed on the installation of stabilizing ribs in the existing 7 Mile Road (DWSD) sewer and in the OMID 8’ dia. adit sewer as well as other general site work. Work on the 7 Mile Rd. watermain relocation is currently delayed by permitting issues with DWSD and EGLE



Removal of PC 663 precast cover



Site status in early November 2023

The **draft** line item schedule and budgets for OMID NIEA Contracts 1 and 2 are summarized:

Work Item/ Milestone	Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
Lining Study Final Report	\$126,744		10/30/2019
90%, 100% Design Package			3/20/2020 and 4/28/2020 (Contract 1) 4/16/2021 and 10/1/22 (Contract 2)
Issued for Bid			6/10/2020 (Contract 1) 11/4/22 (Contract 2)
Bid Opening			9/30/2020 (Contract 1) 3/1/23(Contract 2)
Contract Award and NTP			12/16/2020 and 1/04/2021 (Contract 1) 6/20/23 and 7/1/23 (Contract 2)
Subtotal - Design	\$2,400,570		
Substantial Completion of Construction	\$3,500,000	\$28,630,000	Contract 1, projected SC at 1/24; FC 2/24 Contract 2A& B, est. 10/28/24 and 6/25/25.

NESPS Pump and Electrical Upgrades Project

Budget Status: The total construction amount invoiced as of November 30, 2023, is \$39,841,306.25 out of \$49,409,742.38 (including the operational Control Structure 9 Bulkhead Gate facility and adjusted for stored material inclusion in major work activities), representing 81% of the Pump & Electrical Upgrades Project, with additional change order additions equalizing the regular work completion values.

Schedule Status: Work is currently delayed by issues related to performance testing at Pump #1 and #3. The Contractor is working on an enhanced schedule to make up time but there is currently an estimated delay in excess of 18 months.

The following Design Team and Construction Services Effort is active:

- Construction Phase services (RFIs, Submittals) are ongoing, and the engineering team is reviewing and responding.
- The new Sewage Pump #1 and #3 and Motor have been installed, with in-place testing in progress. Both pumps are approved for provisional use but are operating below design capacity. See further discussion of this issue in the “Overall NESPS Station Performance Report by METCO” on Page 3 of this report.
- A review of alternative energy saving methods and pump sequence remains ongoing, incorporating GLWA SCC comments.
- Installation of small diameter conduit runs, lighting improvements, and wiring in the existing NESPS building is approaching substantial completion.
- Steel discharge piping for Pump 6 has been shipped to the site. All of the discharge piping is now inventoried at the jobsite.
- The August 23, 2022 Arc-Flash incident remains under investigation. The Construction Manager has filed a claim on the OCIP Builder’s Risk insurance coverage for this event.
- Schedule adjustments are currently under discussion. The Contractor has revised the sequence of rehabilitation for the existing Pump Knife Gate Valves: KG#1 and #2 have been re-installed after rehabilitation. KG #5 is rehabbed and installed.
- Work on the alternate discharge piping installation for the Dewatering Pump is complete.
- Work on removal and replacement of the site concrete paving is now complete with Phase 1 and Phase II of the layout completed. An isolated area of soil contaminated by historical diesel fuel spills was encountered adjacent to the standby Generator complex. After an environmental assessment, this material is temporarily stockpiled on site awaiting transport to a Type II landfill.

The **draft** line item schedule and budget are summarized:

Work Item/ Milestone	Design/CCA Budget	Const Budget	Estimated Delivery Date
2 Final Basis of Design			5/31/2019
7 MDEQ Submittal (Part 41 Permit)			4/8/2020 (initial pkg)
8 90% Design Submittal			6/30/20
9 Final Package Development			8/14/2020
Subtotal	\$3,826,000		
10 Substantial Completion	\$2,500,000 (est.)	\$49,380,000	5/30/2024 (late)
11 Final Completion		\$49,380,000	8/23/2024 (late)



NESPS Refurbishment



Delivery of Transformer #4 by Laramie Crane



Contractor pouring Phase II concrete



Installation of 6 inch edge drain



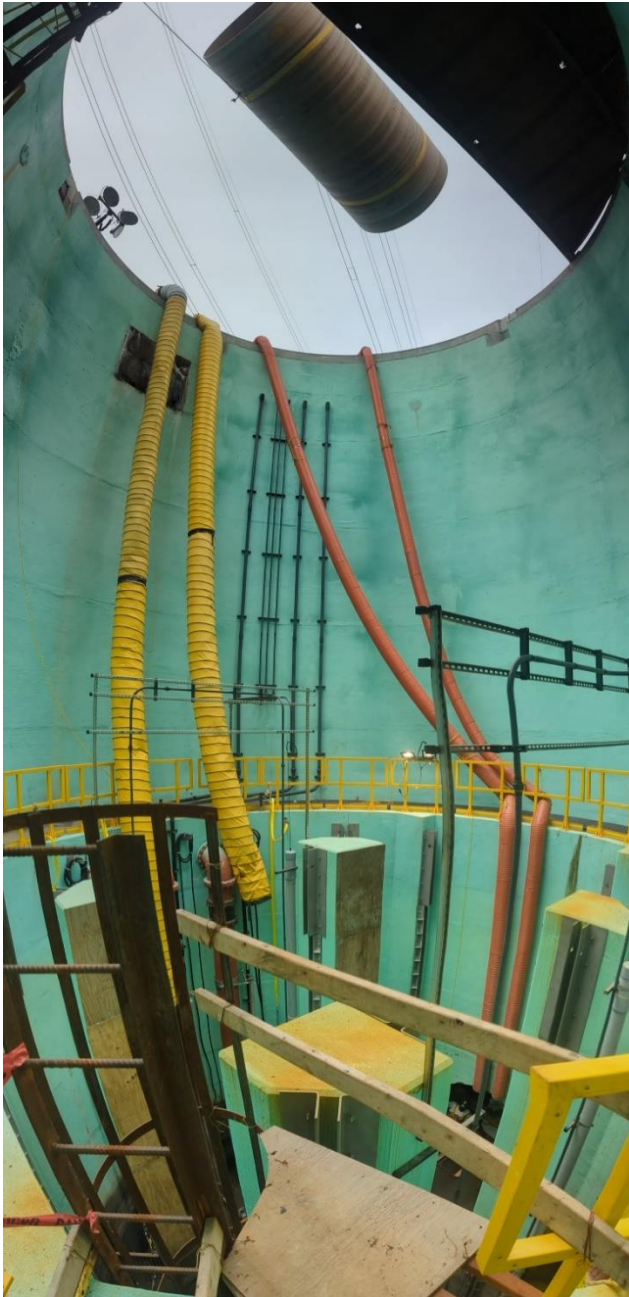
Placement of topsoil behind concrete



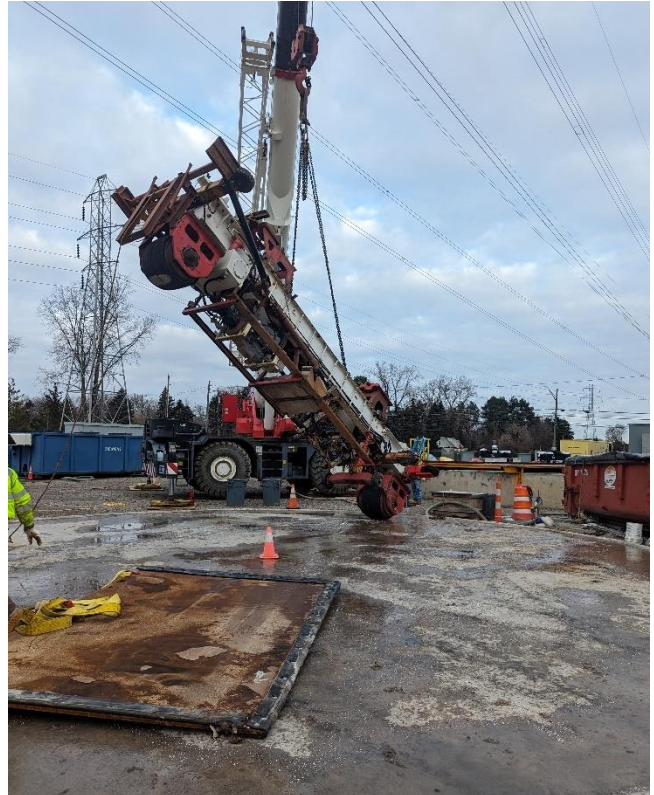
Pressure gauges installed at Pumps #1 and #3

OMID Improvements at CS-6 Site (lining btwn CS-12 & CS-4)

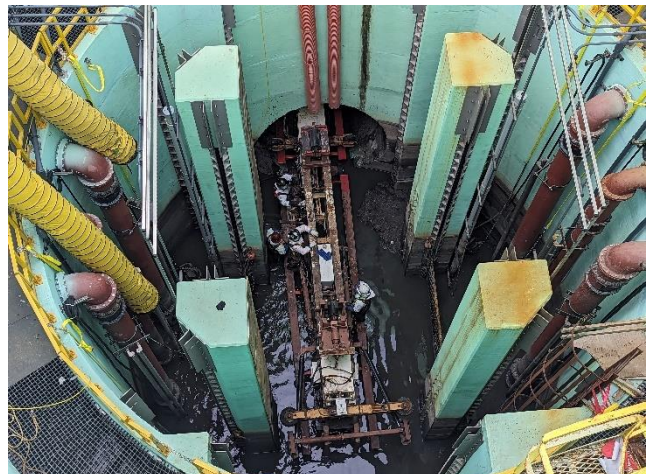
OMIDDD work under this contract includes debris removal and lining between CS-4 and Manhole 7-109 (CS-6 and CS-12 site). Debris removal is substantially complete the week of December 11, 2023. Approximately 5,000 tons of debris have been removed in total. Upstream lining efforts will commence before year end, with lining of the OMID portion between CS-12 and CS-4 to follow.



Pipe section being placed within CS-12



Pipe carrier within CS-12

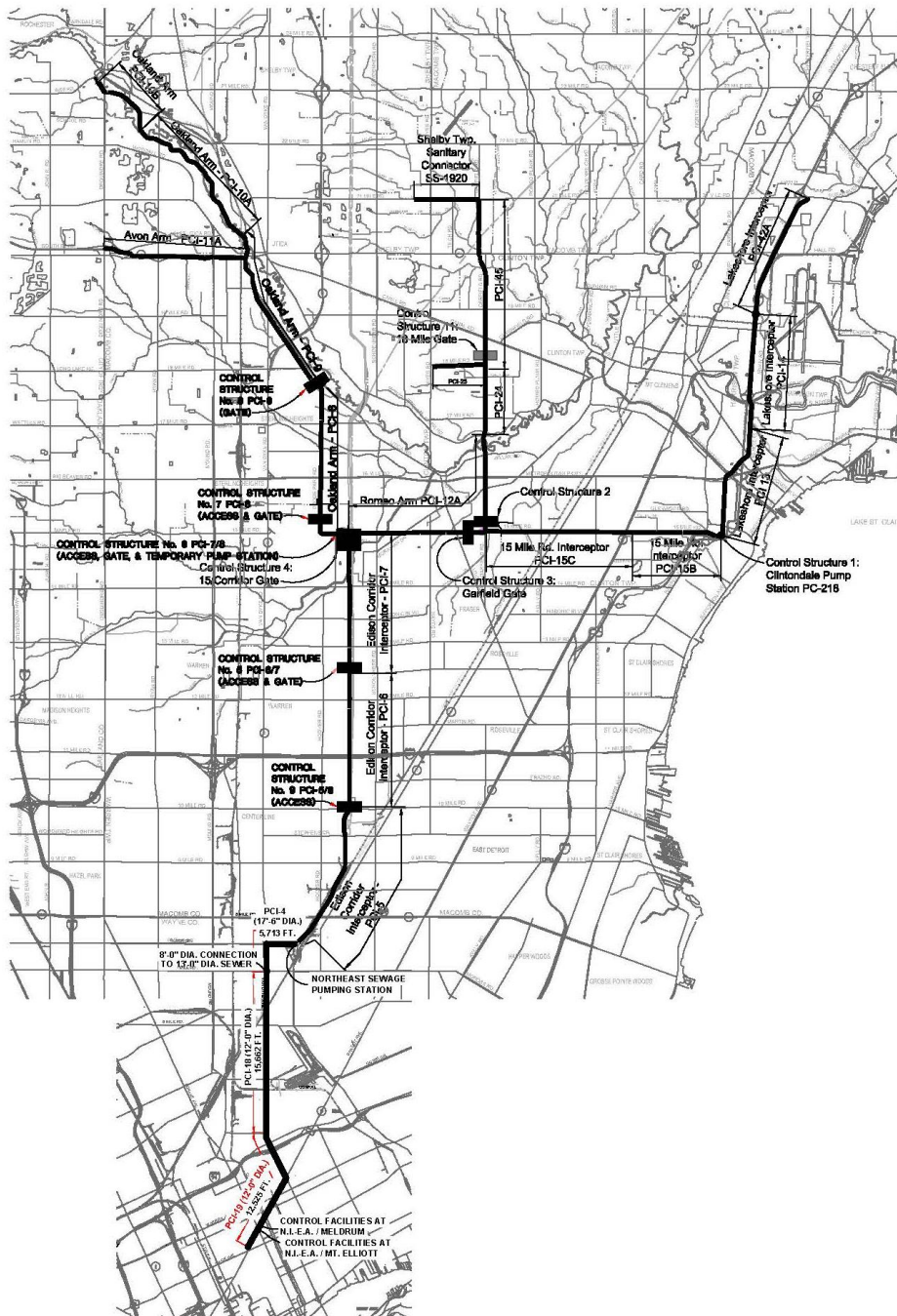


Pipe carrier within CS-12

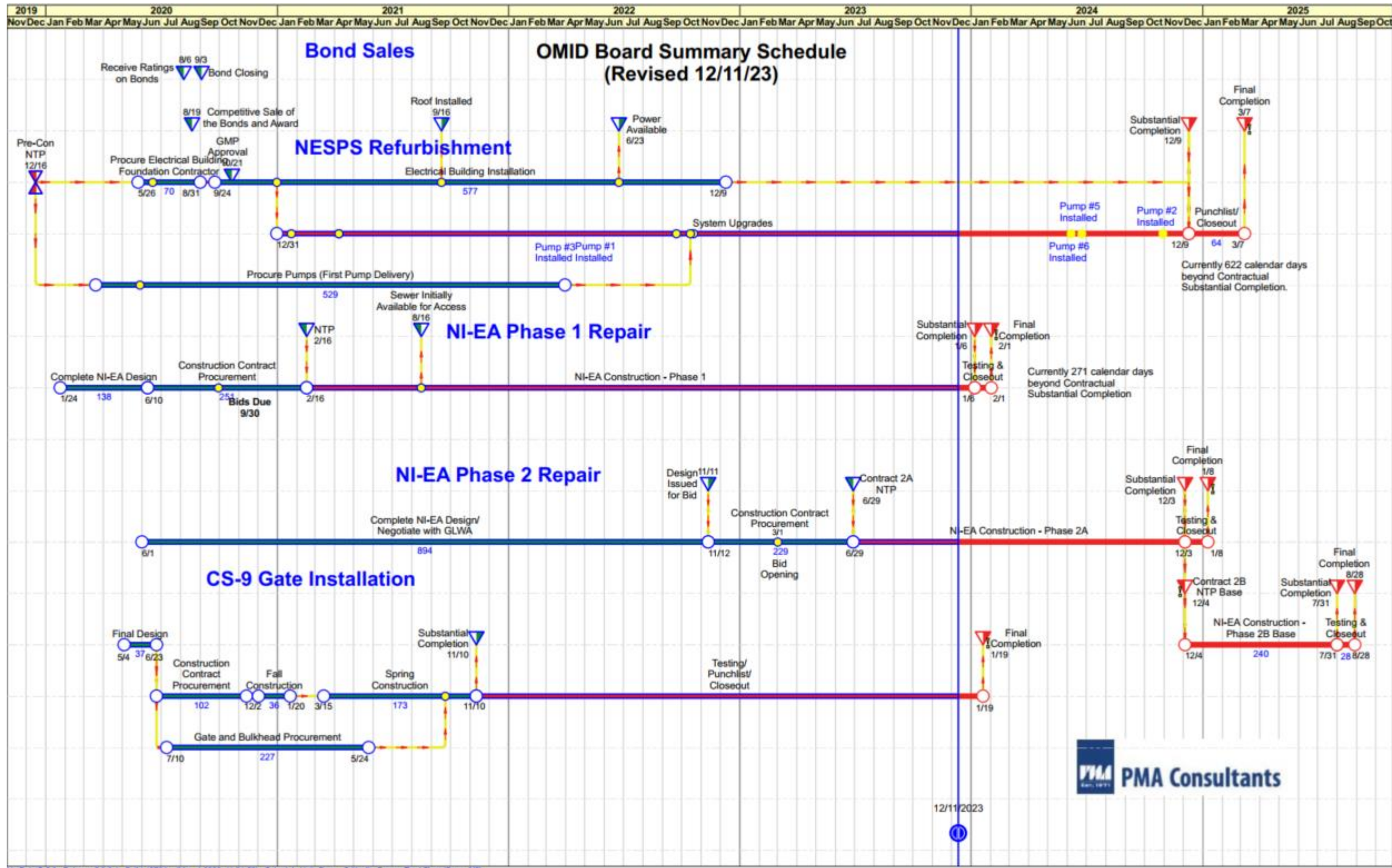
Summary of OMID Design and Construction Status:

Work In Construction Since 2009							
Seg. No	Contract No. (Description)	Contractor	Const. Comp?	As-Builts Final?	Balancing Change Order?	Contractor Closed Out?	Easements Settled?
1	Contract 1 (CS-9, 5, 3)	Ric-Man	Y	Y	Y	Y	Y
1	Contract 2 (CS-6, 7, 8)	Ric-Man	Y	Y	Y	Y	Y
2	Contract 3-2E (Gatehouse)	IWPC (Weiss)	Y	Y	Y	Y	N/A
2	Contract 3 (Grouting PCI-5 thru 8)	IWPC	Y	Y	Y	Y	Y
3	Contract 4 (Lining PCI-5 thru 8)	Jay Dee Cont.	Y	Y	Y	Y	Y
4	Contract 5 (Lining PCI-9, 10A/B)	Lanzo	Y	Y	Y	Y	N
4	Contract 6 (Lining PCI-11A)	Lanzo	Y	Y	Y	Y	Y
N/A	Contract 7 (Lining 110' of NIEA)	IWPC	Y	Y	Y	Y	N/A
N/A	Odor/Corrosion Control System	CSM	Y	Y	Y	Y	N/A
N/A	Control Structure Modifications	CSM/Hesco/MCE	Y/Y/Y	Y/Y/N	Y/Y/N	Y/Y/N	N/A
N/A	OMID Maintenance Repairs	Doetsch	Y	N	N	N	N/A
N/A	CS-9 Gate Modifications	Walsh as CMR	Y	Y	N	N	Y
N/A	NESPS Pump & Electrical Upgrade	ASI;Walsh as CMAR	N	N	N	N	Y
N/A	NIEA-OMIDDD Contract 1 (PCI-4)	Marra	N	N	N	N	N
N/A	NIEA-OMIDDD Cont 2 (PCI-18/19)	Z Contractors	N	N	N	N	N

Work Currently in Design/Study/Engineering		
Description	Design Consultant	Status
System-wide Odor/Corrosion Design	Jacobs	Study Complete, Design nearing completion
NESPS & OMID Maintenance & Repairs	Metco	Engineering/Maintenance Ongoing
Emergency Pumping Plan	ASI/NTH/FKE	Draft Plan to be modified following ITC bypass pumping modifications



Overview of OMID System in Oakland, Macomb, and Wayne County



NetPoint® 5.3, Release 5.3.2.1, Build 10704, (Mar 4 2022 11:21:58) Schedule Unit: Days Criticality Factor: Total Float (Days: 0/5)

OMID Project Schedule Summary

Agenda Item No. 11

Financial Reports – General Financial Report and
Status of State Revolving Fund Financing and
Other Financing

YTD Trial Balance Fund: 84917 Oakland Macomb InterceptorSeg5 As of Fiscal Period: Month 2, 2024		OMID SEGMENT 5 BOND ISSUE PRJ-13252	OMID NI-EA CONSTRUCTION PRJ-13308	NESPS MECH-ELEC CONSTRUCTION PRJ-13309	YTD Balance
100100	Cash - Operating	2,054,134.00	5,845,485.67	12,952,366.74	20,851,986.41
104100	Accrued Interest on Investment	(167,703.74)			(167,703.74)
	ASSETS	1,886,430.26	5,845,485.67	12,952,366.74	20,684,282.67
201210	Vouchers Payable AP Cont				0.00
222300	Unearned Revenues	576,414.65	(2,407,672.79)	(4,956,470.90)	(6,787,729.04)
	LIABILITIES	576,414.65	(2,407,672.79)	(4,956,470.90)	(6,787,729.04)
655000	Income From Investments	(38,862.62)			(38,862.62)
	REVENUES	(38,862.62)	0.00	0.00	(38,862.62)
730000	Contractual Services		391,916.46	482,356.01	874,272.47
770000	Internal Support Expenditures		6,289.25	8,956.43	15,245.68
	EXPENSES	0.00	398,205.71	491,312.44	889,518.15
381315	FB Restricted Debt	(47,288,433.00)			(47,288,433.00)
382100	FB Committed for Capital Proj	44,864,450.71	(3,836,018.59)	(8,487,208.28)	32,541,223.84
	Fund Balance	(2,423,982.29)	(3,836,018.59)	(8,487,208.28)	(14,747,209.16)
		0.00	0.00	0.00	0.00

Cash as of 11/30/2023 \$ 20,851,986.41

Invoices/Reimbursements for NIEA Construction on Current Agenda impacting Cash Balance (546,390.36)

Invoices/Reimbursements for NESPS Mech / Electrical Construction on Current Agenda impacting Cash Balance (68,938.42)

Total Net Cash Balance \$ 20,236,657.63

OCM Project Work In Progress

Company Oakland County
Projects and Project Hierarchies PRJ-13308 OMID
Budget Structure Project Task
Period FY2024 - Nov

Project	Final Budget	Actuals MTD	Actuals YTD	Total Spend YTD	Actuals LTD	Variance
Project Expenses	28,395,600.00	427,148.32	398,205.71	398,205.71	22,556,857.75	5,838,742.25
1 > Administration	584,000.00	0.00	0.00	0.00	175,749.40	408,250.60
1 > Contingency	2,581,000.00	0.00	0.00	0.00	0.00	2,581,000.00
1 > Engineering	478,000.00	4,273.20	4,709.48	4,709.48	215,502.10	262,497.90
1 > Engineering Consultants	4,913,000.00	82,680.06	62,680.06	62,680.06	5,477,728.82	(564,728.82)
1 > Facility Acquisition	17,983,600.00	339,236.40	339,236.40	339,236.40	16,168,212.44	1,815,387.56
1 > Inspection	260,000.00	0.00	0.00	0.00	0.00	260,000.00
1 > Legal and Financial	1,259,000.00	0.00	(10,000.00)	(10,000.00)	237,060.59	1,021,939.41
1 > Right of Way	265,000.00	958.66	1,579.77	1,579.77	83,439.06	181,560.94
1 > STANDARD	40,000.00	0.00	0.00	0.00	199,165.34	(159,165.34)
1 > Survey	32,000.00	0.00	0.00	0.00	0.00	32,000.00
Project Revenues	0.00	0.00	0.00	0.00	25,994,670.63	
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	4,022,827.56	
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	21,965,099.65	
RC698200 - Insurance Recoveries	0.00	0.00	0.00	0.00	6,743.42	
Revenue Over/ (Under) Expenses					3,437,812.88	

OCM Project Work In Progress

Company Oakland County
Projects and Project Hierarchies PRJ-13309 NESPS MECH-ELEC CONSTRUCTION
Budget Structure Project Task
Period FY2024 - Nov

Project	Final Budget	Actuals MTD	Actuals YTD	Total Spend YTD	Actuals LTD	Variance
Project Expenses	54,086,000.00	539,601.20	491,312.44	491,312.44	41,133,633.26	12,952,366.74
1 > Administration	620,000.00	38.91	38.91	38.91	44,457.97	575,542.03
1 > Contingency	4,917,000.00	0.00	0.00	0.00	0.00	4,917,000.00
1 > Engineering	446,000.00	1,705.76	2,004.97	2,004.97	283,486.66	162,513.34
1 > Engineering Consultants	3,987,000.00	110,196.06	78,677.53	78,677.53	3,359,266.96	627,733.04
1 > Facility Acquisition	40,857,000.00	412,037.07	412,037.07	412,037.07	35,803,157.49	5,053,842.51
1 > Inspection	285,000.00	4,020.90	6,951.46	6,951.46	396,627.35	(111,627.35)
1 > Legal and Financial	2,417,000.00	11,602.50	48,012.50	48,012.50	299,362.99	2,117,637.01
1 > Right of Way	393,000.00	0.00	0.00	0.00	0.00	393,000.00
1 > STANDARD	130,000.00	0.00	(56,410.00)	(56,410.00)	945,123.53	(815,123.53)
1 > Survey	34,000.00	0.00	0.00	0.00	2,150.31	31,849.69
Project Revenues	0.00	0.00	0.00	0.00	49,129,529.10	
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	7,291,907.09	
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	41,837,622.01	
Revenue Over/ (Under) Expenses					7,995,895.84	

YTD Trial Balance Fund: 84918 NIEA Contract #2 As of Fiscal Period: Month 2, 2024		NIEA Contract #2 Bond Issue PRJ-17384	NIEA Contract #2 Construction PRJ-17408	YTD Balance
100100	Cash - Operating	54,954.86	14,140,474.56	14,195,429.42
104100	Accrued Interest on Investment	(4,894.64)		(4,894.64)
	ASSETS	50,060.22	14,140,474.56	14,190,534.78
230852	Accounts Payable	(23,980.00)		(23,980.00)
	LIABILITIES	(23,980.00)	0.00	(23,980.00)
655000	Income From Investments	(26,080.22)		(26,080.22)
	REVENUES	(26,080.22)	0.00	(26,080.22)
730000	Contractual Services	0.00	909,782.24	909,782.24
	EXPENSES	0.00	909,782.24	909,782.24
382100	FB Committed for Capital Proj		(15,050,256.80)	(15,050,256.80)
	Fund Balance	0.00	(15,050,256.80)	(15,050,256.80)
		(0.00)	(0.00)	(0.00)

Cash as of 11/30/2023 \$ 14,195,429.42

Invoices/Reimbursements for Construction PRJ-17408 on Current Agenda impacting Cash Balance (950,823.00)

Total Net Cash Balance \$ 13,244,606.42

OCM Project Work In Progress

Company Oakland County
Projects and Project Hierarchies PRJ-17408 NI-EA C2 PCI 18&19 Rehab
Budget Structure Project Task
Period FY2024 - Nov

Project	Final Budget	Actuals MTD	Actuals YTD	Total Spend	Actuals LTD	Variance
Project Expenses	15,600,000.00	915,615.58	909,782.24	909,782.24	1,218,775.15	14,381,224.85
1 > Administration	95,287.00	0.00	0.00	0.00	0.00	95,287.00
1 > Contingency	0.00	0.00	0.00	0.00	0.00	0.00
1 > Engineering	235,465.00	0.00	0.00	0.00	0.00	235,465.00
1 > Engineering Consultants	2,089,000.00	72,084.91	72,084.91	72,084.91	135,280.16	1,953,719.84
1 > Facility Acquisition	12,596,000.00	753,927.60	729,347.83	729,347.83	975,145.49	11,620,854.51
1 > Inspection	230,037.00	0.00	0.00	0.00	0.00	230,037.00
1 > Legal and Financial	279,000.00	0.00	0.00	0.00	0.00	279,000.00
1 > Right of Way	42,000.00	0.00	0.00	0.00	0.00	42,000.00
1 > STANDARD	15,796.00	89,603.07	108,349.50	108,349.50	108,349.50	(92,553.50)
1 > Survey	17,415.00	0.00	0.00	0.00	0.00	17,415.00
Project Revenues	0.00	0.00	0.00	0.00	15,359,249.71	
RC605572 - Special Assessments Revenue	0.00	0.00	0.00	0.00	9,562,443.00	
RC697219 - Premiums on Bonds Sold	0.00	0.00	0.00	0.00	176,878.45	
RC697551 - Issuance of Bonds	0.00	0.00	0.00	0.00	5,619,928.26	
Revenue Over/ (Under) Expenses					14,140,474.56	

OCM Project Work In Progress

Company Oakland County
Projects and Project Hierarchies PRJ-17384 OMIDDD NIEA Contract2 Bond Adm
Budget Structure Project Task
Period FY2024 - Nov

Project	Actuals MTD	Commitments YTD	Obligations YTD	Actuals YTD	Total Spend YTD	Actuals LTD
Project Expenses	\$0.00	\$0.00	\$23,980.00	\$0.00	23,980.00	124,622.50
1 > Administration	\$25,275.00	\$0.00	\$0.00	\$0.00	0.00	124,622.50
1 > Legal and Financial	(\$25,275.00)	\$0.00	\$23,980.00	\$0.00	23,980.00	0.00
Project Revenues	\$26,080.22	\$0.00	\$0.00	\$407,327.92	(407,327.92)	150,702.72
RC605572 - Special Assessments Revenue	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00
RC655077 - Accrued Interest Adjustments	\$0.00	\$0.00	\$0.00	\$0.00	0.00	(4,894.64)
RC655385 - Income from Investments	\$26,080.22	\$0.00	\$0.00	\$26,080.22	(26,080.22)	45,525.62
RC655462 - Increase Market Value Investment	\$0.00	\$0.00	\$0.00	\$381,247.70	(381,247.70)	0.00
RC697219 - Premiums on Bonds Sold	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00
RC697551 - Issuance of Bonds	\$0.00	\$0.00	\$0.00	\$0.00	0.00	110,071.74
Revenue Over/ (Under) Expenses						26,080.22

Oakland County - Water Resources Commissioner's Office
Fund Equity: Schedule of Reserves and Dedicated Funds
As of Date: November 30, 2023

Fund	Description	Major Maintenance	Emergency Maintenance Reserve	Capital Improvement	Undesignated	Committed for Capital Projects	Total Equity
82912	OMIDD Maintenance Fund	3,387,046.27	3,000,000.00	2,842,705.93	8,565,369.16		17,795,121.36
84917	OMIDD Seg 5						
	- Project PRJ-13252 Interceptor Seg 5 Bond Adm					2,462,844.91	
	- Project PRJ-13308 NI - EA Construction					3,437,812.88	
	- Project PRJ-13309 NESPS Construction					<u>7,995,895.84</u>	13,896,553.63
84918	OMIDDD North Interceptor East Arm – Contract #2						
	- Project: PRJ-17384 OMIDDD NIEA Contract2 Bond Adm					26,080.22	
	- Project: PRJ-17408 OMIDDD NIEA Contract2 Construction					<u>14,140,474.56</u>	14,166,554.78
Total Equity in Maintenance and Construction Funds							<u><u>45,858,229.77</u></u>

NOTE: This report presents pre-closing figures and as such are subject to change

OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS

OMIDD Meeting Date 12/20/2023

		84917	84917	84918	82912	Total
		1-3308	1-3309	1-7408		
<u>Payable To</u>	<u>Invoice #</u>	<u>Segment 5 NIEA Construction</u>	<u>Segment 5 NESPS Mech / Electric Construction</u>	<u>NIEA Contract #2 Construction</u>	<u>Operations & Maintenance</u>	
Oakland County *	WRC Labor/Fringes/Non-direct Labor (10/21/2023 - 11/17/2023)	5,089.49	5,501.72			10,591.21
Oakland County *	WRC Equipment (10/21/2023 - 11/17/2023)	142.37	224.94			367.31
Oakland County *	WRC Mileage (10/21/2023 - 11/17/2023)		38.91			38.91
Applied Science, Inc	Invoice # 57 (ASI Inv. #8561) Services 10/29/20 to 11/25/23		59,918.21		8,062.87	67,981.08
Clark Hill PLC	Invoice # 1371149 Matter 463149 Vendor Dispute - Walsh Const. Through 10/31/2023		3,595.50			3,595.50
Clark Hill PLC	Invoice # 1380412 Matter 463149 Vendor Dispute - Walsh Const. Through 11/30/2023		1,224.00			1,224.00
Clark Hill PLC	Invoice # 1380507 Matter 475622 CH 21 Petition Improvement Through 11/30/2023				162.00	162.00
Jacobs Consultants, Inc.	Invoice # C6A19900-11 OMIDD Odor & Corrosion Facilities 06/16/2023 - 06/30/2023				42,151.29	42,151.29
Kennedy Industries	Invoice # 639206 - NESPS Pump 2 Field Service 8/17/2023				1,648.50	1,648.50
Lardner Elevator Company	Invoice # 199339 - F&I New Infra Red 10/25/2023				2,318.00	2,318.00
Lardner Elevator Company	Invoice # 199361 - Job 4825 Additional Insurance 11/03/2023				10,964.00	10,964.00
METCO Consulting Engineers	Invoice # 1811-59 10/30/2023 Through 12/03/2023				82,207.34	82,207.34
Motor City Electric Technologies	Invoice # 95463 T&M NESPS SCADA Work 10/31/2023				180.00	180.00
Motor City Electric Technologies	Invoice # 95464 T&M NESPS SCADA Work 10/25/2023				90.00	90.00
Motor City Electric Technologies	Invoice # 95465 T&M NESPS SCADA Work 11/06/2023				126.00	126.00
Motor City Electric Technologies	Invoice # 95466 T&M NESPS SCADA Work				675.00	675.00
Motor City Electric Technologies	Invoice # 95467 T&M NESPS SCADA Work 11/09/2023				135.00	135.00
Motor City Electric Technologies	Invoice # 95468 T&M NESPS SCADA Work 10/31/2023 & 11/06/2023				360.00	360.00
Motor City Electric Technologies	Invoice # 95470 T&M NESPS SCADA Work 09/25/2023				427.50	427.50
NTH Consultants	Invoice # 634509 (D-439) Engineering Services 10/21/2023 -11/17/2023				1,659.24	1,659.24
NTH Consultants	Invoice # 634510 Rehab Close-Out & NESPS Maintenanc Tasks 10/21/2023 - 11/17/2023				778.10	778.10
NTH Consultants	Invoice # 634511 (D-421 & D-462) Engineering Services 10/21/2023 - 11/17/2023		4,161.80			4,161.80
NTH Consultants	Invoice # 634512 (D-458 & D-463) Engineering Services 09/23/2023 - 10/20/2023			67,543.54		67,543.54
NTH Consultants	Invoice # 634513 (D-425 & D-457) Engineering Services 10/21/2023 - 11/17/2023	60,102.34				60,102.34
PM Technologies	Invoice # 84825412 NESPS Generator 3 Monthly Inspection Date 11/13/2023				350.00	350.00
PM Technologies	Invoice # 84827602 NESPS Generator 2 Monthly Inspection Date 11/13/2023				350.00	350.00
PM Technologies	Invoice # 84828599 NESPS Generator 1 Monthly Inspection Date 11/13/2023				350.00	350.00
PMA Consultants	Invoice # 03559.01 - 41 Professional Services Through 10/31/23	22,304.41				22,304.41
PMA Consultants	Invoice # 03559.01 - 42 Professional Services Through 11/30/23	21,098.77				21,098.77
Walsh Construction	Construction Estimate # 38 NESPS Pump & Electrical Upgrades Project	190,384.84				190,384.84
Mara Services	Construction Estimate # 33 NI-EA PCI 4 rehabilitation	252,500.00				252,500.00
Z Contractors	Construction Estimate # 4 NI-EA contract #2A and 2B - PCI 18 and 19			883,279.46		883,279.46
	Total Invoices/Reimbursements for Approval	551,622.22	74,665.08	950,823.00	152,994.84	1,730,105.14
	* Less WRC Charges already paid from OMI Fund	(5,231.86)	(5,726.66)	0.00		(10,958.52)
	Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain Board	546,390.36	68,938.42	950,823.00	152,994.84	1,719,146.62

Agenda Item No. 12

Invoices

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 10/21/2023 - 11/17/2023									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1206288	10/31/2023	10/16/2023	BANTIOS, EVAGELOS	1.50	182.57	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	121.71	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00	243.42	REGULAR	WRCCON	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	243.42	REGULAR	WRCCON	PRJ-13309	ENGINEERING
			BANTIOS, EVAGELOS Total		791.12				
1050210	10/31/2023	10/24/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	10/31/2023	10/26/2023	POUSHO, ROBERT	9.00	532.08	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	10/31/2023	10/31/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	10/31/2023	11/2/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/7/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/9/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/14/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
1050210	11/14/2023	11/16/2023	POUSHO, ROBERT	8.00	472.96	REGULAR	WRCCON	PRJ-13309	INSPECTION
			POUSHO, ROBERT Total		3,842.80				
1131289	10/25/2023	10/9/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/16/2023	PUSCAS, JACK J	3.00	260.34	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/23/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/25/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/30/2023	PUSCAS, JACK J	3.00	260.34	REGULAR	WRCADM	PRJ-13309	ENGINEERING
			PUSCAS, JACK J Total		867.80				
			Grand Total		5,501.72				

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 10/21/2023 - 11/17/2023									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1206288	10/31/2023	10/16/2023	BANTIOS, EVAGELOS	1.50	0.60	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/16/2023	BANTIOS, EVAGELOS	1.50	3.51	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/16/2023	BANTIOS, EVAGELOS	1.50	0.38	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/18/2023	BANTIOS, EVAGELOS	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/19/2023	BANTIOS, EVAGELOS	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1206288	10/31/2023	10/30/2023	BANTIOS, EVAGELOS	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13309	ENGINEERING
			BANTIOS, EVAGELOS Total		19.44				
1050210	10/31/2023	10/24/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023	10/24/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	10/31/2023	10/26/2023	POUSHO, ROBERT	9.00	3.60	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023	10/26/2023	POUSHO, ROBERT	9.00	21.06	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	10/31/2023	10/31/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023	10/31/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	10/31/2023	11/2/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	10/31/2023	11/2/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023	11/7/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023	11/7/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023	11/9/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023	11/9/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023	11/14/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023	11/14/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
1050210	11/14/2023	11/16/2023	POUSHO, ROBERT	8.00	3.20	ASSIGNED	Cell Phone	PRJ-13309	INSPECTION
1050210	11/14/2023	11/16/2023	POUSHO, ROBERT	8.00	18.72	ASSIGNED	PC/Computer	PRJ-13309	INSPECTION
			POUSHO, ROBERT Total		178.10				
1131289	10/25/2023	10/9/2023	PUSCAS, JACK J	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/9/2023	PUSCAS, JACK J	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/16/2023	PUSCAS, JACK J	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	10/25/2023	10/16/2023	PUSCAS, JACK J	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/23/2023	PUSCAS, JACK J	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/23/2023	PUSCAS, JACK J	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/25/2023	PUSCAS, JACK J	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/25/2023	PUSCAS, JACK J	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/30/2023	PUSCAS, JACK J	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13309	ENGINEERING
1131289	11/8/2023	10/30/2023	PUSCAS, JACK J	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13309	ENGINEERING
			PUSCAS, JACK J Total		27.40				
			Grand Total		224.94				

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Name/Description	Sum BU Amount
11/24/2023	FND84917	Oakland Macomb InterceptorSeg5	PRJ-13309	NESPS MECH-ELEC CONSTRUCTION	Administration	Robertoy, Katy	38.91
							38.91

OMI Segment 5 NI-EA Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 10/21/2023 - 11/17/2023									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1208707	11/9/2023	10/16/2023	COOK, JENNIFER	2.00	214.68	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/17/2023	COOK, JENNIFER	3.00	322.02	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/18/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/19/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/20/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/23/2023	COOK, JENNIFER	2.00	214.68	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/24/2023	COOK, JENNIFER	4.00	429.36	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/25/2023	COOK, JENNIFER	3.00	322.02	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/26/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/30/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/31/2023	COOK, JENNIFER	4.50	483.03	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/2/2023	COOK, JENNIFER	1.00	107.34	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/3/2023	COOK, JENNIFER	2.00	214.68	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/6/2023	COOK, JENNIFER	2.00	214.68	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/7/2023	COOK, JENNIFER	3.00	322.02	REGULAR	WRCADM	PRJ-13308	ENGINEERING
			COOK, JENNIFER Total		3,381.21				
1094816	11/1/2023	10/23/2023	PARROTT, JEFFREY	1.50	132.47	REGULAR	WRCROW	PRJ-13308	ROW
1094816	11/1/2023	10/25/2023	PARROTT, JEFFREY	1.00	88.31	REGULAR	WRCROW	PRJ-13308	ROW
1094816	11/1/2023	10/30/2023	PARROTT, JEFFREY	1.00	88.31	REGULAR	WRCROW	PRJ-13308	ROW
1094816	11/14/2023	11/13/2023	PARROTT, JEFFREY	2.00	176.62	REGULAR	WRCROW	PRJ-13308	ROW
1094816	11/14/2023	11/15/2023	PARROTT, JEFFREY	2.00	176.62	REGULAR	WRCROW	PRJ-13308	ROW
1094816	11/14/2023	11/17/2023	PARROTT, JEFFREY	3.00	264.93	REGULAR	WRCROW	PRJ-13308	ROW
			PARROTT, JEFFREY Total		927.26				
1131284	10/25/2023	10/10/2023	PUSCAS, JACK J	2.00	173.56	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00	86.78	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	10/25/2023	10/17/2023	PUSCAS, JACK J	2.00	173.56	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	11/8/2023	10/24/2023	PUSCAS, JACK J	2.00	173.56	REGULAR	WRCADM	PRJ-13308	ENGINEERING
1131284	11/8/2023	10/31/2023	PUSCAS, JACK J	2.00	173.56	REGULAR	WRCADM	PRJ-13308	ENGINEERING
			PUSCAS, JACK J Total		781.02				
			Grand Total		5,089.49				

OMI Segment 5 NI-EA Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 10/21/2023 - 11/17/2023									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
1208707	11/9/2023	10/16/2023	COOK, JENNIFER	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/16/2023	COOK, JENNIFER	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/17/2023	COOK, JENNIFER	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/17/2023	COOK, JENNIFER	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/18/2023	COOK, JENNIFER	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/18/2023	COOK, JENNIFER	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/19/2023	COOK, JENNIFER	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/19/2023	COOK, JENNIFER	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/20/2023	COOK, JENNIFER	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/20/2023	COOK, JENNIFER	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/23/2023	COOK, JENNIFER	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/23/2023	COOK, JENNIFER	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/24/2023	COOK, JENNIFER	4.00	1.60	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/24/2023	COOK, JENNIFER	4.00	9.36	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/25/2023	COOK, JENNIFER	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/25/2023	COOK, JENNIFER	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/26/2023	COOK, JENNIFER	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/26/2023	COOK, JENNIFER	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/30/2023	COOK, JENNIFER	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/30/2023	COOK, JENNIFER	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/31/2023	COOK, JENNIFER	4.50	1.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	10/31/2023	COOK, JENNIFER	4.50	10.53	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/2/2023	COOK, JENNIFER	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/2/2023	COOK, JENNIFER	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/3/2023	COOK, JENNIFER	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/3/2023	COOK, JENNIFER	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/6/2023	COOK, JENNIFER	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/6/2023	COOK, JENNIFER	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/7/2023	COOK, JENNIFER	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1208707	11/9/2023	11/7/2023	COOK, JENNIFER	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
			COOK, JENNIFER Total		86.31				
1094816	11/1/2023	10/23/2023	PARROTT, JEFFREY	1.50	0.38	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/1/2023	10/23/2023	PARROTT, JEFFREY	1.50	0.60	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/1/2023	10/23/2023	PARROTT, JEFFREY	1.50	3.51	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	11/1/2023	10/25/2023	PARROTT, JEFFREY	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/1/2023	10/25/2023	PARROTT, JEFFREY	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/1/2023	10/25/2023	PARROTT, JEFFREY	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	11/1/2023	10/30/2023	PARROTT, JEFFREY	1.00	0.25	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/1/2023	10/30/2023	PARROTT, JEFFREY	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/1/2023	10/30/2023	PARROTT, JEFFREY	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	11/14/2023	11/13/2023	PARROTT, JEFFREY	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/14/2023	11/13/2023	PARROTT, JEFFREY	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/14/2023	11/13/2023	PARROTT, JEFFREY	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	11/14/2023	11/15/2023	PARROTT, JEFFREY	2.00	0.50	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/14/2023	11/15/2023	PARROTT, JEFFREY	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/14/2023	11/15/2023	PARROTT, JEFFREY	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ROW
1094816	11/14/2023	11/17/2023	PARROTT, JEFFREY	3.00	0.75	ASSIGNED	Tablet/iPad	PRJ-13308	ROW
1094816	11/14/2023	11/17/2023	PARROTT, JEFFREY	3.00	1.20	ASSIGNED	Cell Phone	PRJ-13308	ROW
1094816	11/14/2023	11/17/2023	PARROTT, JEFFREY	3.00	7.02	ASSIGNED	PC/Computer	PRJ-13308	ROW
			PARROTT, JEFFREY Total		31.40				
1131284	10/25/2023	10/10/2023	PUSCAS, JACK J	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	10/25/2023	10/10/2023	PUSCAS, JACK J	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00	0.40	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	10/25/2023	10/12/2023	PUSCAS, JACK J	1.00	2.34	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	10/25/2023	10/17/2023	PUSCAS, JACK J	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	10/25/2023	10/17/2023	PUSCAS, JACK J	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	11/8/2023	10/24/2023	PUSCAS, JACK J	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	11/8/2023	10/24/2023	PUSCAS, JACK J	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
1131284	11/8/2023	10/31/2023	PUSCAS, JACK J	2.00	0.80	ASSIGNED	Cell Phone	PRJ-13308	ENGINEERING
1131284	11/8/2023	10/31/2023	PUSCAS, JACK J	2.00	4.68	ASSIGNED	PC/Computer	PRJ-13308	ENGINEERING
			PUSCAS, JACK J Total		24.66				
			Grand Total		142.37				



Applied Science, Inc.

21455 Melrose Ave. Bldg R Suite 12 Southfield, MI 48075
Phone: (313) 567-3990 Fax: (313) 567-3750
www.asi-detroit.com

December 7, 2023

Project Invoice # 57 (ASI Inv. 8561)

Joel Brown, P.E.
Civil Engineer III
Oakland County Water Resources Commissioner's Office
One Public Works Drive, Building 95 West
Waterford, MI 48328

Re: Northeast Sanitary Pump Station
Contract #5470
(ASI Job No. 1815)

Invoice Period: 10/29/23-11/25/23

Task No.	Task Description	Total This Invoice
1	Transition & Basis of Design	
	Total:	\$ -
	Subconsultants:	
	FK Engineering:	\$ -
	ASI Markup 5%:	\$ -
	Total:	<u>\$ -</u>
	Previous Amount Invoiced:	
	Total Invoiced To-Date	
	Contract Task Total:	
	Amount Remaining:	

li#4133 v#352

Task No.	Task Description	Total This Invoice
2	Design Services for Pump & Electrical Upgrades	
	Total:	\$ -
	Subconsultants:	
	Metco Services	\$ -
	FK Engineering:	\$ -
	NTH Consultants	\$ -
	AEW	\$ -
	ASI Markup 5%:	\$ -
	Total Due This Invoice:	<u>\$ -</u>

Task No.	Task Description	Total This Invoice
3	Additional Special Services	
	Total:	\$ -
	Subconsultants:	
	NTH Consultants	\$ -
	FK Engineering:	\$ -
	ASI Markup 5%:	\$ -
	Total Due This Invoice:	<u>\$ -</u>

Task No.	Task Description	Total This Invoice
5	Construction Services	
	Total:	\$ 20,199.00
	Subconsultants:	
	NTH Consultants	\$ 23,010.07
	Metco Services	\$ 6,900.00
	FK Engineering:	\$ 4,417.75
	ASI Markup 5%:	\$ 1,716.39
	Direct Expenses:	\$ 3,675.00
	Total Due This Invoice:	<u>\$ 59,918.21</u>
	Previous Amount Invoiced:	

84917-149015-730639-1-3309-engcon

Task No.	Task Description	Total This Invoice
6	Control Structure Rehab	
	Total:	\$ 7,489.00
	Subconsultants:	
	NTH Consultants	\$ 546.54
	ASI Markup 5%:	\$ 27.33
	Direct Expenses:	\$ -
	Total Due This Invoice:	<u>\$ 8,062.87</u>

82912-149667-730639-PRJ-17060 engcon

Summary		
Total Due This Invoice-All Tasks:		\$ 67,981.08
Previous Amount Invoiced:		\$ 4,884,275.72
Amount Invoiced for MCC Incident (separate invoice):		<u>\$ 1,431.37</u>
Amount Invoiced for Pump Issues (separate invoice):		<u>\$ 6,513.00</u>
Total Invoiced To-Date		\$ 4,960,201.17
Original Contract Task Total:		\$ 4,198,380.00
Additional Budget-Task 5:		\$ 284,076.60
Additional Budget-Task 5a:		\$ 1,513,301.00
Additional Budget-Task 6:		\$ 220,326.00
Current Contract Task Total:		\$ 6,216,083.60
Amount Remaining:		<u>\$ 1,255,882.43</u>



Oakland County Water Resources Commissioner, MI
Attn: Megan Koss, Esq.
One Public Works Drive
Waterford, MI 48328-1907
WRCLegalInvoices@oakgov.com

Invoice: 1371149
Date: 11/07/2023
Client: 30164
Matter: 463149

**6010101-84917-149015-731073-1-3309- LEGAL - Ch. 21
5113-v#2788**

Matter Name: Construction Dispute - Walsh Construction

KC 2023-11-29

LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH OCTOBER 31, 2023

Total Fees:	\$	3,595.50
Total Due This Invoice:	\$	3,595.50



Oakland County Water Resources Commissioner, MI
Attn: Megan Koss, Esq.
One Public Works Drive
Waterford, MI 48328-1907
WRCLegalInvoices@oakgov.com

Invoice: 1380412
Date: 12/05/2023
Client: 30164
Matter: 463149

**6010101-84917-149015-731073-1-3309- LEGAL - Ch. 21
5113-v#2788**

Matter Name: Construction Dispute - Walsh Construction

LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH NOVEMBER 30, 2023

Total Fees:	\$	1,224.00
Total Due This Invoice:	\$	1,224.00



Oakland-Macomb Interceptor Drain Drainage District
Attn: Megan Koss, Esq.
1 Public Works Drive
Waterford, MI 48328
WRClegalinvoices@oakgov.com

Invoice: 1380507
Date: 12/05/2023
Client: 58434
Matter: 475622

**84912-6010101-149015-731073-LEGAL- CH. 21
-5113- v # 2788**

Matter Name: Chapter 21 Petition Improvement

LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH NOVEMBER 30, 2023

Total Fees:	\$	162.00
Total Due This Invoice:	\$	162.00

Invoice



Jacobs Consultants, Inc.

Invoice No.: C6A19900-11
 Invoice Date: 11/3/2023
 Jacobs Project No.: C6A19900
 Services From: 6/16/2023
 Services Through: 6/30/2023

Oakland-Macomb Interceptor Drain Drainage District
 c/o Oakland County Water Resources Commissioner's Office
 One Public Works Drive
 Bldg. 95 West
 Waterford, Michigan 48328

82912 - 149667- 730639 -1-17059- ENGCONSULT

Attn: Mr. Joel Brown, P.E.

Project Description: OMID Odor and Corrosion Control Facilities

Task Number	Task Description	Budget Total	Previously Invoiced	Current Invoice	Project to Date	Remaining Budget
Task 1	Additional Investigation/Modeling	\$ 226,151.90	\$ 226,489.81	\$ -	\$ 226,489.81	\$ (337.91)
Task 2	Basis of Design	\$ 122,605.02	\$ 122,303.64		\$ 122,303.64	\$ 301.38
Task 3	ST-S-3 Vapor-Phase Treatment System - Subtask 3.1 - Design	\$ 276,371.04	\$ 236,028.39	\$ 35,982.49	\$ 272,010.88	\$ 4,360.16
	ST-S-3 Vapor-Phase Treatment System - Subtask 3.2 - Bidding	\$ 17,154.74	\$ -	\$ -	\$ -	\$ 17,154.74
Task 4	CS-6 Pump Station Vapor-Phase System - Subtask 4.1 - Design	\$ 191,218.29	\$ 96,755.18	\$ -	\$ 96,755.18	\$ 94,463.11
	CS-6 Pump Station - Vapor-Phase System Subtask 4.2 - Bidding	\$ 15,612.91	\$ -	\$ -	\$ -	\$ 15,612.91
Task 5	CS-8 and ST-S-1 Local Odor Control - Subtask 5.1 - Design	\$ 80,199.91	\$ 77,293.65	\$ 1,914.32	\$ 79,207.97	\$ 991.94
	CS-8 and ST-S-1 Local Odor Control - Subtask 5.2 - Bidding	\$ 12,829.09	\$ -	\$ -	\$ -	\$ 12,829.09
Task 6	Design Emergency Relief Valves for CS-9 High Pressures	\$ 21,081.00	\$ 16,817.14	\$ 4,254.47	\$ 21,071.61	\$ 9.39
	Total	\$ 963,223.90	\$ 775,687.81	\$ 42,151.29	\$ 817,839.10	\$ 145,384.80

Previously Invoiced \$775,687.81
Total This Invoice: \$42,151.29
Total Invoiced To Date: \$817,839.10
Budget Amount: \$963,223.90
Remaining Amount USD: \$145,384.80

Outstanding Invoices					
Date	Invoice No.	Invoiced Amount	Paid Date	Paid Amount	Amount Outstanding

Signed Jason A. Matteo
 Jason Matteo
 Project Manager

Please remit payment electronically to:
 Beneficiary Bank: Bank of America
 Account Name: Jacobs Consultants, Inc.
 Transit for ACH: 111000012
 Transit for Wires: 026009593
 Account No (USD): 4451457732



KENNEDY
INDUSTRIES

INNOVATE
SOLVE
MONITOR
REPAIR

INVOICE		
DATE	NUMBER	PAGE
11/2/2023	639206	1 of 1

B OMI100
I OAKLAND MACOMB INTERCEPTOR DRA
L 1 PUBLIC WORKS DR.
L SUBMIT INVOICES TO NEXGEN
T WATERFORD, MI 48328
O

S NORTH EAST PUMPING STATION
H 11001 E. STATE FAIR AVE
I DETROIT, MI 48234
P
T
O

**82912-6010101-149090-730660-5825-
ch.21- v#239 exp. 6/30/25**

ATTENTION:
TERRY MOORE 313-8297207 TMOORE@METCOSERVICES.COM

CUSTOMER REF/PO #	JOB #	JOB TITLE	SLP	SHIPPING TYPE	TERMS
01010	0121521	GREAT LAKES WATER AUTHORITY, NEPS PUMP #2, FIELD SERVICE, SANITARY	SAH/KTT	FIELD SERVICE	NET 60
QUANTITY		DESCRIPTION	UNIT PRICE	EXTENDED	
B/O	Ship				

0.00	1.00	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (2) FIELD SERVICE TECHNICIAN(S) ONSITE ON 8/17/2023. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$1,648.50	\$1,648.50
------	------	--	------------	------------

TOTAL REFLECTS THE BELOW:

(10.5) HOURS OF LABOR
MILEAGE: \$66.00
FUEL SURCHARGE: \$49.50

TM-11-13-23

PLEASE REMIT TO:
KENNEDY INDUSTRIES, INC.
P.O. BOX 930079
WIXOM, MI 48393

<small>This invoice is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 5/2023) and Customer Warranty available at www.kennedyind.com which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.</small> *TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE *A 7% PER ANNUM SERVICE CHARGE SHALL BE APPLIED TO ANY BALANCE *CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE	SUBTOTAL:	\$1,648.50
	TAX:	\$0.00
	TOTAL:	\$1,648.50

LARDNER ELEVATOR

729 Meldrum, Detroit, MI 48207
 Phone: (313) 568-1600 Fax: (313) 568-0488
 Email: info@lardnerelevator.com
 www.lardnerelevator.com

INVOICE

82912-6010101-149090-730660-XXXX - CH. 21

Invoice #
199339

Bill To: 
 Oakland Macomb Interceptor Drain Drainage District
 1 Public Works Drive
 dbgreen@metcoservices.com
 tmoore@metcoservices.com
 Waterford, MI 48328

Account: Northeast Pump Station
 11001 E. State Fair
 Detroit, MI 48205
 Account #: 00-6642-2

Date	Nov 02, 2023	Terms	Net 30 Days	Route	Detroit Route	Job #	4780
Inv #	199339	PO #		Territory	LECO	Type	Repair

Quantity	Description	Taxable	Measure	Price	Amount
1.00	Quoted Price - F&I New Infra-Red - #275	No	Each	2,318.00	\$2,318.00
10/25/2023 TT# 187045 E# 8944 Replaced Tri-Tronics door edge. Went through correct orders with Darrin. Returned elevator to service. Quoted Job - # 4780 Material \$1,119.00 Labor 968.00 Zone 231.00 TOTAL \$2,318.00 <i>TM-11-20-23</i>					
					Taxable \$0.00
					Non-Taxable \$2,318.00
					Sub-Total \$2,318.00
					Sales Tax \$0.00
					TOTAL \$2,318.00

PLEASE DETACH THIS PORTION AND RETURN WITH PAYMENT



Lardner Elevator Company
 729 Meldrum
 Detroit, MI 48207

Account # 00-6642-2
 Northeast Pump Station
 Invoice # 199339
 Amount \$2,318.00
 Paid \$



729 Meldrum, Detroit, MI 48207
 Phone: (313) 568-1600 Fax: (313) 568-0488
 Email: info@lardnerelevator.com
 www.lardnerelevator.com

INVOICE

199361

82912-6010101-149090-730660-XXXX - CH. 21

Bill To:



Oakland Macomb Interceptor Drain Drainage District
 1 Public Works Drive
 dbgreen@metcoservices.com
 tmoore@metcoservices.com
 Waterford, MI 48328

Account: Northeast Pump Station
 11001 E. State Fair
 Detroit, MI 48205
 Account #: 00-6642-2

Nov 03,2023	Net 30 Days	Detroit Route	4825
199361		LECO	Repair

Quantity	Description	Unit	Rate	Total
1.00	Job # 4825 - Additional Insurance Coverage	No	Each	10,964.00
Job # 4825 - Customer Request for Additional Insurance Coverage				
				\$0.00
				\$10,964.00
				\$10,964.00
				\$0.00
				\$10,964.00

TM-11-13-23

PLEASE DETACH THIS PORTION AND RETURN WITH PAYMENT



Lardner Elevator Company
 729 Meldrum
 Detroit, MI 48207

Account # 00-6642-2
 Northeast Pump Station
 Invoice # 199361
 Amount \$ 10,964.00
 Paid \$



INVOICE NO. 1811-59

DATE: December 4, 2023

METCO PROJECT NO. 1811

INVOICE PERIOD: 10/30 thru 12/3/2023

Contract ID 0000000000000000000005517

Vendor ID 0000020486

TO: OMIDD
Water Resources Commissioner
One Public Works Drive
Waterford, MI 48328
Attn: Joel Brown, P.E.
Chief Engineer-Construction Projects Unit

TITLE: OMID & NESPS Operation and Maintenance

Operational Plan

OMID Operations - Fund 82912, Program 149130, Account 730373 (3.1-3.4A & 3.4B)

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Lists staff including Raj Vijayendran, PE, Terry Moore, Darrin Green, Anthony Vozza, and Rosana Santos with their respective hours and rates.

NEPS Operations - Fund 82912, Program 149090, Account 730373 (3.1-3.4A & 3.4B)

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Lists staff including Raj Vijayendran, PE, Terry Moore, Darrin Green, Anthony Vozza, and Rosana Santos with their respective hours and rates.

Subtotal Operations \$ 35,065.00

Maintenance & Asset Management

OMID Maintenance - Fund 82912, Program 149130, Account 730646 (3.2-3.3-3.4C & ALLOWANCE)

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Lists staff including Terry Moore, Anthony Vozza, Darrin Green, and Darrin Green with their respective hours and rates.

NEPS Maintenance - Fund 82912, Program 149090, Account 730646 (3.2-3.3-3.4C & ALLOWANCE)

Table with 5 columns: Name, Title, Hrs., Rate/Hr., Amount. Lists staff including Raj Vijayendran, PE, Terry Moore, Daniel Martel, Sean Grant, Travis Ford, and Shailesh Patel with their respective hours and rates.

Darrin Green	Staff Engineer	30.0	\$	90.00	\$	2,700.00
Darrin Green	Staff Engineer-(Overtime)	5.0	\$	135.00	\$	675.00
Anthony Vozza	Staff Engineer	81.0	\$	90.00	\$	7,290.00
Anthony Vozza	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
Abhishek Shah	Staff Engineer	20.0	\$	90.00	\$	1,800.00
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
	Subtotal:				\$	20,770.00
	Maintenance Services (see attached invoices):				\$	8,422.34
	Subtotal NEPS Maintenance:				\$	29,192.34
	Subtotal Maintenance:				\$	35,072.34

NEXGEN Asset Management Implementation Services – Fund 82912, Program 149090, Account 730646

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>		<u>Rate/Hr.</u>		<u>Amount</u>
Raj Vijayendran, PE	Principal Engineer	0.0	\$	215.00	\$	-
Terry Moore	Operations Manager	0.0	\$	145.00	\$	-
Terry Moore	Operations Manager (Overtime)	0.0	\$	195.00	\$	-
Sean Grant	Sr. Project Engineer	14.0	\$	145.00	\$	2,030.00
Darrin Green	Staff Engineer	0.0	\$	90.00	\$	-
Darrin Green	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
Anthony Vozza	Staff Engineer	0.0	\$	90.00	\$	-
Abhishek Shah	Staff Engineer	70.0	\$	90.00	\$	6,300.00
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
	Subtotal Maintenance:				\$	8,330.00

Task 12.0 - As-Needed Services - VFD Pump 4

Raj Vijayendran, PE	Principal Engineer	4.0	\$	215.00	\$	860.00
Daniel Martel	Sr. Project Coordinator	0.0	\$	145.00	\$	-
Brandon Brochue	Designer/Drafter	16.0	\$	85.00	\$	1,360.00
	Subtotal 12.0:				\$	2,220.00

Task 12.0 - As-Needed Services - Pump Performance

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>		<u>Rate/Hr.</u>		<u>Amount</u>
Terry Moore	Operations Manager	8.0	\$	145.00	\$	1,160.00
Terry Moore	Operations Manager (Overtime)	0.0	\$	195.00	\$	-
Anthony Vozza	Staff Engineer	4.0	\$	90.00	\$	360.00
Darrin Green	Staff Engineer	0.0	\$	90.00	\$	-
Darrin Green	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
	Subtotal 12.0:				\$	1,520.00

TOTAL AMOUNT DUE THIS INVOICE: \$ 82,207.34



MOTOR CITY ELECTRIC TECHNOLOGIES INC.
 AUTOMATION AND CONTROLS SOLUTIONS
 9440 GRINNELL
 DETROIT, MI 48213-1151
 PHONE (313) 921-5300 FAX (313) 921-5310
 "AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
 ONE PUBLIC WORKS DRIVE, BUILDING 95
 WATERFORD, MI 48328-

Customer
 PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
924567	0	001	11/29/2023	11/29/2023	95463

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA	\$180.00	-	\$180.00	\$180.00	-	-
Totals:		\$180.00		\$180.00	\$180.00		
Less Retained:				-			
Invoice Total:				\$180.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORTS

WORK PERFORMED 10/31/2023

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."



MOTOR CITY ELECTRIC TECHNOLOGIES INC.

AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL

DETROIT, MI 48213-1151

PHONE (313) 921-5300 FAX (313) 921-5310

"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
ONE PUBLIC WORKS DRIVE, BUILDING 95
WATERFORD, MI 48328-

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
924567	0	001	10/25/2023	11/29/2023	95464

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA	\$90.00		\$90.00	\$90.00		
Totals:		\$90.00		\$90.00	\$90.00		
Less Retained:							
Invoice Total:				\$90.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

82912-6010101-149130-730660-5469-CH. 21- v # 7755- li#41132 - exp 12/31/23

WORK PERFORMED 10/25/2023

TM-12-5-23

complete electrical construction

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MOTOR CITY ELECTRIC TECHNOLOGIES INC.
 AUTOMATION AND CONTROLS SOLUTIONS
 9440 GRINNELL
 DETROIT, MI 48213-1151
 PHONE (313) 921-5300 FAX (313) 921-5310
 "AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
 ONE PUBLIC WORKS DRIVE, BUILDING 95
 WATERFORD, MI 48328-

Customer
 PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
924567	0	001	11/6/2023	11/29/2023	95465

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA	\$126.00	-	\$126.00	\$126.00	-	-
Totals:		\$126.00		\$126.00	\$126.00		
Less Retained:				-			
Invoice Total:				\$126.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY

82912-6010101-149130-730660-5469-CH. 21- v # 7755- li#41132 - exp 12/31/23

WORK PERFORMED 11/6/2023

TM-12-5-23

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."



MOTOR CITY ELECTRIC TECHNOLOGIES INC.
 AUTOMATION AND CONTROLS SOLUTIONS
 9440 GRINNELL
 DETROIT, MI 48213-1151
 PHONE (313) 921-5300 FAX (313) 921-5310
 "AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
 ONE PUBLIC WORKS DRIVE, BUILDING 95
 WATERFORD, MI 48328-

Customer
 PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
924567	0	001	11/29/2023	11/29/2023	95466

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA	\$675.00		\$675.00	\$675.00	-	-
Totals:		\$675.00		\$675.00	\$675.00		
Less Retained:							
Invoice Total:				\$675.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORTS

TM-12-5-23

WORK PERFORMED

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."



MOTOR CITY ELECTRIC TECHNOLOGIES INC.
 AUTOMATION AND CONTROLS SOLUTIONS
 9440 GRINNELL
 DETROIT, MI 48213-1151
 PHONE (313) 921-5300 FAX (313) 921-5310
 "AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
 ONE PUBLIC WORKS DRIVE, BUILDING 95
 WATERFORD, MI 48328-

Customer
 PD Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
924567	0	001	11/9/2023	11/29/2023	95467

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA	\$135.00	-	\$135.00	\$135.00	-	-
Totals:		\$135.00		\$135.00	\$135.00		
Less Retained:				-			
Invoice Total:				\$135.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 11/9/2023

TM-12-5-23

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."



MOTOR CITY ELECTRIC TECHNOLOGIES INC.

AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL

DETROIT, MI 48213-1151

PHONE (313) 921-5300 FAX (313) 921-5310

"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
ONE PUBLIC WORKS DRIVE, BUILDING 95
WATERFORD, MI 48328-

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
924567	0	001	11/29/2023	11/29/2023	95468

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&M SERVICES SCADA	\$360.00	-	\$360.00	\$360.00	-	-
Totals:		\$360.00		\$360.00	\$360.00		
Less Retained:				-			
Invoice Total:				\$360.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

82912-6010101-149090-730660-5469-Ch. 21 - v#7755- li#41132 - exp 12/31/23

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORTS

WORK PERFORMED 10/31/23 & 11/6/23

T&M-12-6-23

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."



MOTOR CITY ELECTRIC TECHNOLOGIES INC.

AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL

DETROIT, MI 48213-1151

PHONE (313) 921-5300 FAX (313) 921-5310

"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

986

OMID
ONE PUBLIC WORKS DRIVE, BUILDING 95
WATERFORD, MI 48328-

Customer
PO Number
5469

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
923567	0	001	9/25/2023	11/29/2023	95470

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	T&MNESP SCADA	\$427.50	-	\$427.50	\$427.50	-	-
Totals:		\$427.50		\$427.50	\$427.50		
Less Retained:				-			
Invoice Total:				\$427.50			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

82912-6010101-149130-730660-5469-CH. 21- v # 7755- li#41132 - exp 12/31/23

WORK PERFORMED 9/25/2023

TM-12-5-23

complete electrical construction

"We hereby certify that the articles and services covered by this invoice were produced and performed in compliance with all applicable requirements of Section 6, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."



NTH Consultants, Ltd.

Infrastructure Engineering
and Environmental Services

OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328

Invoice # : 634509
Project : 61210495
Invoice Group :
Invoice Date : 11/29/2023

Attention Joel Brown, P.E.

For Professional Services Rendered from 10/21/2023 - 11/17/2023

Authorization per Engineering Work Order D 439 date 12/03/2021
82912-149662-730639-Cont#1-2603 Exp (12/31/21-Rev)
82912- 6010101- 149662-730639- 2603 - Ch.21 - v# 4716 - li #24138 - exp. 12/31/23

Additional OMID NESPS Maintenance Engineering Services

Task 01	NESPS Health and Safety Audit	\$8,651.75
Task 02	Control Structure 6 (CS-6) Emergency Bypass System Design	\$72,250.46
Task 03	Wet Wall Screen Cleaning Equipment	\$7,366.85
Task 04	Control Structure Gate Inspection	\$9,747.94

Preliminary Budget Amount	<u>\$98,017.00</u>
Percent Complete:	98.69%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 30.80	\$ 21,058.09
Overhead %	188.00 57.90	39,589.21
Total Regular Labor Expense	88.70	60,647.30
Total Direct Labor	88.70	60,647.30
Profit / Fixed Fee %	12.00 10.64	7,277.67
Direct Expenses Charge	0.00	523.60
Expense Multiplier %	5.00 0.00	26.19
Direct Subcontractor Charge	1,471.60	26,662.90
Subcontractor/Subconsultant Multiplier %	6.00 88.30	1,599.78
Total Other Direct Charges Reimbursables	<u>1,559.90</u>	<u>28,812.47</u>
Total Costs:	<u>1,659.24</u>	<u>96,737.44</u>
Total Due This Invoice	<u>\$ 1,659.24</u>	<u>\$ 96,737.44</u>



NTH Consultants, Ltd.

Infrastructure Engineering
and Environmental Services

**82912-149662-731458-2603-Ch.21-
v#4716 exp 12/31/23 li # 24138**

**OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328**

**Invoice # : 634510
Project : 61-210313
Invoice Group : **
Invoice Date : 11/29/2023**

Attention: Joel Brown, P.E.

For Professional Services Rendered from 10/21/2023 - 11/17/2023

Consulting Services Regarding Additional OMID Rehabilitation Program 2021 Closeout Services and As-Needed NESPS Maintenance Tasks

Task 01	Contract 3 NESPS Rehab Closeout	\$9,563.00
Task 02	PCI-4 Liner Deterioration Closeout	\$10,939.00
Task 03	Discharge Pipe Coating Rehabilitation	\$27,930.00
Task 04	NESPS Wet Well Sediment Survey	\$19,639.00
	Preliminary Budget Amount	\$68,071.00
	Percent Complete:	83.43%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 9.00	\$ 9,887.11
Overhead %	188.00 16.92	18,587.75
Total Regular Labor Expense	25.92	28,474.86
Total Direct Labor	25.92	28,474.86
Profit / Fixed Fee %	12.00 3.11	3,416.98
Direct Expenses Charge	0.00	160.52
Expense Multiplier %	5.00 0.00	8.02
Direct Subcontractor Charge	713.40	23,555.34
Subcontractor/Subconsultant Multiplier %	5.00 35.67	1,177.79
Total Other Direct Charges Reimbursables	749.07	24,901.67
Total Costs:	778.10	56,793.51
Total Due This Invoice	\$ 778.10	\$ 56,793.51



**84917-6010101-149015-731458-2603-1-3309-ch . 21-engcon v#4716-
li#24138-exp 12/31/23**

Omi Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328

Invoice # : 634511
Project : 61-200280
Invoice Group : CMT
Invoice Date : 11/29/2023

Attention Joel Brown, P.E.

For Professional Services Rendered from **10/21/2023 - 11/17/2023**

Provide Engineering and Consulting Services regarding NESPS Pumping and Electrical System Upgrade (D-421) & (D-462)

Task 01	CMT Services	\$189,674.00
Task 02	Tnemecc Coating Observation	-
	Preliminary Budget Amount	\$189,674.00
	Percent Complete:	85.87%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 1,148.25	\$ 41,396.21
Overhead %	188.00 2,158.71	77,824.86
Total Regular Labor Expense	3,306.96	119,221.07
Total Direct Labor	3,306.96	119,221.07
Profit / Fixed Fee %	12.00 396.84	14,306.53
Direct Expenses Charge	436.19	22,600.43
Expense Multiplier %	5.00 21.81	1,130.02
Direct Subcontractor Charge	0.00	5,302.50
Subcontractor/Subconsultant Multiplier %	6.00 0.00	318.15
Direct Unit Rate Charge	0.00	0.00
Total Other Direct Charges Reimbursables	458.00	29,351.10
Total Costs:	4,161.80	162,878.70
Total Due This Invoice	\$ 4,161.80	\$ 162,878.70



NTH Consultants, Ltd.
 Infrastructure Engineering
 and Environmental Services

84918-149015-730639-PRJ-17408-1-ENG_CONSULT- WDCON8173

OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328

Invoice # : 634512
Project : 23001693
Invoice Group : **
Invoice Date : 11/29/2023

Attention Jen Cook, P.E.

For Professional Services Rendered from 10/21/2023 - 11/17/2023

Provide Engineering and Consulting Services regarding OMID PCI-18 and PCI-19 Rehabilitation Project CCA; D-458 & D-463

Contract 2 CCA Services **\$1,907,063.00**
Preliminary Budget Amount **\$1,907,063.00**
Percent Complete: 10.64%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 12,904.95	\$ 39,803.48
Overhead %	188.00 24,261.31	74,830.55
Total Regular Labor Expense	37,166.26	114,634.03
Total Direct Labor	37,166.26	114,634.03
Profit / Fixed Fee %	12.00 4,459.95	13,756.08
Direct Expenses Charge	705.45	24,244.65
Expense Multiplier %	5.00 35.27	1,212.22
Direct Subcontractor Charge	23,751.52	46,204.44
Subcontractor/Subconsultant Multiplier %	6.00 1,425.09	2,772.28
Total Other Direct Charges Reimbursables	25,917.33	74,433.59
Total Costs:	67,543.54	202,823.70
Total Due This Invoice	\$ 67,543.54	\$ 202,823.70



**84917-6010101-149015-731444-2603-1-3308-Ch. 21-v#4716-
li#24138-exp 12/31/23**

OMI Drain Drainage District
One Public Works Drive
Building 95 West
Waterford, MI 48328

Invoice # : 634513
Project : 61-200186
Invoice Group : **
Invoice Date : 11/29/2023

Attention Joel Brown, P.E.

For Professional Services Rendered from **10/21/2023 - 11/17/2023**

Provide Engineering Services for OMID NI-EA Contract No.1 PCI-4 Rehabilitation Project and CS-9 Gate Installation Project D-425 and D-457

Task 01	NI-EA OMID Contract No. 1 CCA	\$2,759,494.00
Task 02	OMID CS-9 Gate CCA	\$217,468.00
	Preliminary Budget Amount	\$2,976,962.00
	Percent Complete:	97.26%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 17,551.50	\$ 679,455.10
Overhead %	188.00 32,996.82	1,277,375.61
Total Regular Labor Expense	50,548.32	1,956,830.71
Total Direct Labor	50,548.32	1,956,830.71
Profit / Fixed Fee %	12.00 6,065.80	234,819.69
Direct Expenses Charge	2,160.48	61,451.93
Expense Multiplier %	5.00 108.02	3,072.60
Direct Subcontractor Charge	1,150.68	603,078.04
Subcontractor/Subconsultant Multiplier %	6.00 69.04	36,184.77
Direct Unit Rate Charge	0.00	0.00
Total Other Direct Charges Reimbursables	3,488.22	703,787.33
Total Costs:	60,102.34	2,895,437.73
Total Due This Invoice	\$ 60,102.34	\$ 2,895,437.73



PM Technologies
28294 Beck Road, Wixom, Michigan 48393 United States
(248) 374-6405

BILL TO

County Of Oakland
A Michigan Constitutional Corp
Detroit, MI 48234 USA

82912-6010101-149090-730660-5821-CH. 21

	INVOICE 84825412	INVOICE DATE Nov 13, 2023
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JOB ADDRESS

Northeast Sewage Pumping Station 1825kw - Generator 3
11001 East State Fair Avenue
Detroit, MI 48234 USA

Completed Date: 11/13/2023

Payment Term: NET 30

Due Date: 12/13/2023

TASK	DESCRIPTION	QTY	PRICE	TOTAL
Monthly Inspections	Monthly Inspection Perform Secondary Inspection on generator and transfer switch(es). Update on-site maintenance log (as applicable) **excludes live transfer test	1.00	\$350.00	\$350.00

TM-11-20-23

SUB-TOTAL	\$350.00
TOTAL DUE	\$350.00
BALANCE DUE	\$350.00

Thank you for choosing PM Technologies



PM Technologies
28294 Beck Road, Wixom, Michigan 48393 United States
(248) 374-6405

BILL TO

County Of Oakland
A Michigan Constitutional Corp
Detroit, MI 48234 USA

82912-6010101-149090-730660-5821-CH. 21

INVOICE 84827602	INVOICE DATE Nov 13, 2023
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JOB ADDRESS

Northeast Sewage Pumping Station - 1825kw Generator 2
11001 East State Fair Avenue
Detroit, MI 48234 USA

Completed Date: 11/13/2023
Payment Term: NET 30
Due Date: 12/13/2023

TASK	DESCRIPTION	QTY	PRICE	TOTAL
Monthly Inspections	Monthly Inspection Perform Secondary Inspection on generator and transfer switch(es). Update on-site maintenance log (as applicable) **excludes live transfer test	1.00	\$350.00	\$350.00

TM-11-2023

SUB-TOTAL	\$350.00
TOTAL DUE	\$350.00
BALANCE DUE	\$350.00

Thank you for choosing PM Technologies



PM Technologies
28294 Beck Road, Wixom, Michigan 48393 United States
(248) 374-6405

BILL TO

County Of Oakland
A Michigan Constitutional Corp
Detroit, MI 48234 USA

82912-6010101-149090-730660-5821-CH. 21

	INVOICE 84828599	INVOICE DATE Nov 13, 2023
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JOB ADDRESS

Northeast Sewage Pumping Station - Generator 1
11001 East State Fair Avenue
Detroit, MI 48234 USA

Completed Date: 11/13/2023
Payment Term: NET 30
Due Date: 12/13/2023

DESCRIPTION OF WORK

INSPECTED FUEL LEVEL MONITOR. AUDIBLE ALARM NOT SOUNDING DURING TEST. JUMPED 9VDC TO SPEAKER ALARM. ALARM SOUNDS. RECONNECTED AND TESTED. AUDIBLE ALARM OPERATIONAL. AUDIBLE ALARM INTERMITTENT ISSUE.

TASK	DESCRIPTION	QTY	PRICE	TOTAL
Monthly Inspections	Monthly Inspection Perform Secondary Inspection on generator and transfer switch(es). Update on-site maintenance log (as applicable) **excludes live transfer test	1.00	\$350.00	\$350.00

TM-11-20-23

SUB-TOTAL	\$350.00
TOTAL DUE	\$350.00
BALANCE DUE	\$350.00

Thank you for choosing PM Technologies



Oakland County Water Resources Commissioner
Attn: Sid Lockhard, P.E.
One Public Works Drive
Building 95-West
Waterford 48328

November 15, 2023
Invoice No: 03559.01 - 41

**84917-6010101-149015-731458-6096-1-3308-Ch. 21-
engcon- v#16918- exp 5/29/23**

Project 03559.01 Oakland-Macomb Interceptor Drainage 2020

Professional Services from October 1, 2023 to October 31, 2023

Task 1.0 Oakland-Macomb Interceptor Drainage 2020

Professional Personnel

	Hours	Rate	Amount	
Zann, John	74.00	110.00	8,140.00	
Totals	74.00		8,140.00	
Total Labor				8,140.00

Additional Fees

Overhead	149.10 % of 8,140.00		12,136.74	
Profit	10.00 % of 20,276.74		2,027.67	
Total Additional Fees			14,164.41	14,164.41

Total this Task \$22,304.41

Billing Limits

	Current	Prior	To-Date
Total Billings	22,304.41	511,423.23	533,727.64
Limit			880,000.00
Remaining			346,272.36

Total this Invoice \$22,304.41

Please remit payment to PMA CONSULTANTS LLC, PO BOX 675234, DETROIT, MI 48267-5234. Please direct any questions regarding this invoice to Samantha Zeisler, Project Administrator, at 734-418-7897 or szeisler@pmaconsultants.com



Oakland County Water Resources Commissioner
Attn: Joel Brown
One Public Works Drive
Building 95-West
Waterford 48328

December 8, 2023
Invoice No: 03559.01 - 42

**84917-6010101-149015-731458-6096-1-3308-Ch. 21-
engcon- v#16918- exp 5/29/23**

Project 03559.01 Oakland-Macomb Interceptor Drainage 2020

Professional Services from November 1, 2023 to November 30, 2023

Task 1.0 Oakland-Macomb Interceptor Drainage 2020

Professional Personnel

	Hours	Rate	Amount	
Zann, John	70.00	110.00	7,700.00	
Totals	70.00		7,700.00	
Total Labor				7,700.00

Additional Fees

Overhead	149.10 % of 7,700.00		11,480.70	
Profit	10.00 % of 19,180.70		1,918.07	
Total Additional Fees			13,398.77	13,398.77

Total this Task \$21,098.77

Billing Limits

	Current	Prior	To-Date
Total Billings	21,098.77	533,727.64	554,826.41
Limit			880,000.00
Remaining			325,173.59

Total this Invoice \$21,098.77

Please remit payment to PMA CONSULTANTS LLC, PO BOX 675234, DETROIT, MI 48267-5234. Please direct any questions regarding this invoice to Samantha Zeisler, Project Administrator, at 734-418-7897 or szeisler@pmaconsultants.com

Agenda Item No. 13

Other Business

Agenda Item No. 14

Adjourn