

## AGENDA

### Oakland-Macomb Interceptor Drain Drainage Board Macomb and Oakland Counties

**July 20, 2022 – 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 July 20, 2022
3. Motion to approve the Drainage District Board Meeting Minutes from June 15, 2022
4. Public Comment
5. Motion to approve the following Engineering Work Orders:
  - a) NTH for CS-9 Hatch Cover Repair Inspection Observation to increase contract #2603 by a not-to-exceed amount of \$59,500 and the creation of the CS-9 Hatch Cover Damage Repair Project
  - b) NTH for Additional Odor and Air Pressure Sampling Effort for NI-EA Rehabilitation Projects to increase contract #2603 by a not-to-exceed amount of \$18,554
6. Motion to approve the following Change Orders:
  - a) Walsh Construction Change Order No. 23 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$570,665.08
  - b) Walsh Construction Change Order No. 1 for Construction of the CS-9 Hatch Cover Damage Repair in the amount of \$507,481.00
  - c) Kone Change Order No. 1 for the Extension of OMIDDDD-DEC Maintenance Services Contact
7. Motion to approve the following Construction Estimates:
  - a) Construction Estimate No.21 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$3,600,132.78 with a transfer to the Oakland County Treasurer in the amount of \$43,912.74
  - b) Construction Estimate No. 16 for Marra Services for NI-EA Contract No. One for PCI 4 Rehabilitation in the amount of \$331,260.10

8.	Report/Update – Status of OMID Repairs Project		
9.	Financial Reports – General Financial Report and Status of State Revolving Fund Financing and Other Financing		
10.	Motion to approve the following invoices:		
a)	ASI		
	Invoice No. 41-8183	NESPS	\$ 82,657.76
b)	Clark Hill		
	1) Invoice No. 1214929	O&M	\$ 2,160.00
	2) Invoice No. 1214934	NI-EA	\$ 1,269.00
c)	Dickinson Wright		
	Invoice No. 1703938	O&M	\$ 3,002.00
d)	Hesco		
	Invoice No. 2213682	O&M	\$ 3,378.80
e)	Jacobs		
	Invoice No. C6A19900-01	O&M	\$ 100,964.56
f)	Kennedy Industries		
	1) Invoice No. 931379-1	O&M	\$ 110.00
	2) Invoice No. 931612	O&M	\$ 3,098.00
g)	Kone		
	1) Invoice No. 1158274162	O&M	\$ 486.66
	2) Invoice No. 1158276230	O&M	\$ 1,009.54
	3) Invoice No. 1158321286	O&M	\$ 273.52
h)	Konecranes		
	Invoice No. 154645862	O&M	\$ 4,483.60
i)	Meadowbrook Insurance		
	Invoice No. 4901	NESPS	\$ 125,000.00
j)	Metco		
	Invoice No. 1811-42	O&M	\$ 65,326.33
k)	Motor City Electric Company		
	Invoice No. 922567	O&M	\$ 225.00
l)	NTH Consultants, Ltd		
	1) Engineering Design Services Rehabilitation of NI-EA Sections PCI-4		
	Invoice No. 629893	NI-EA	\$ 19,356.15
	2) Contract No. 1 PCI-4		
	Invoice No. 629894	NI-EA	\$ 102,038.22
	3) Eng./Consulting Services NESPS Upgrade		
	Invoice No. 629900	NESPS	\$ 4,825.21
	4) Consulting Services – System Inspection		
	Invoice No. 629901	O&M	\$ 4,414.01
	5) Rehabilitation Program 2021 Closeout Services		
	Invoice No. 629902	O&M	\$ 883.69
	6) Additional NESPS Maintenance Eng. Services		
	Invoice No. 629903	O&M	\$ 2,825.33
m)	PMA Consultants		
	Invoice No. 03559.01-25	O&M	\$ 14,423.88
n)	Rotor		
	1) Invoice No. 12522	O&M	\$ 2,125.50
	2) Invoice No. 12523	O&M	\$ 3,185.74
	3) Invoice No. 12524	O&M	\$ 2,403.72

4) Invoice No. 12525	O&M	\$	548.00
5) Invoice No. 12526	O&M	\$	959.00
6) Invoice No. 12527	O&M	\$	11,587.05

11. Architectural Options and Construction Cost Estimates for St-S-3 Presentation

12. Other Business

13. Adjourn

Next Regular Meeting: August 17, 2022, 11:30 a.m., Eastern Standard Time.

**Agenda Item No. 3**

Board Meeting Minutes from June 15, 2022



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

June 15, 2022

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held at the office of the Oakland County Water Resources Commissioner, One Public Works Drive, Building 95 West, Waterford, Michigan on the 15<sup>th</sup> day of June at 11:30 a.m. Eastern Standard Time and via Microsoft Teams.

**PRESENT:**

Michael Gregg, Chairperson and Deputy for Gary McDowell, Director of the Michigan Department of Agriculture and Rural Development; Brian Baker for 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: Bruce Manning, and Stephen Downing. Representing the office of the Oakland County Water Resources Commissioner: Steve Korth, Andrea Craft, Sid Lockhart, Joel Brown, Megan Koss, and Stephanie Lajdziak. Others in attendance: Fritz Klingler, FK Engineering; Terry Moore, Metco; Shawn Phelps, OC Fiscal Services; Larry Gilbert and Michelle Kitzinger, NTH Consultants; Sal Saputo and Patrick Kennedy, Meadowbrook Insurance; Dave Pauline, Walsh Construction

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 11:30 a.m.

2. Agenda.

Motion by Baker, supported by Vaara, to approve the June 15, 2022, agenda as presented.

ADOPTED: Yeas - 3  
Nays - 0

3. Minutes.

Motion by Baker, supported by Vaara, to approve the minutes of the May 18, 2022, meeting.

ADOPTED: Yeas - 3  
Nays - 0

4. Public Comment.

None.

5. Meadowbrook Insurance NESPS/NIEA Property and Pollution Renewal

Sal Saputo presented to the Board a very thorough overview of both the property and pollution liability renewals for NESPS & NIEA. He noted that this is the second year of the two-year renewal policy with Chubb. He furthered that the rate increase does not include quantities, which have been affected by an increase in property value due to inflation. Patrick

Kennedy advised that he approached other markets and found the market is narrow for the type of risk pertaining to the Drainage District's insurance needs.

Motion by Baker, supported by Vaara, to authorize the NESPS/NIEA Property and Pollution renewal as presented.

ADOPTED: Yeas - 3  
Nays - 0

6. Meadowbrook Insurance Safety Summary Report

Sid Lockhart and Patrick Kennedy presented the Board with a detailed summary of site safety pertaining to the NESPS renovation and NI-EA rehabilitation project. Mr. Kennedy advised that the report indicates the site is clean, organized and the project is running smoothly. He noted there have been no Occupational Safety and Health Administration (OSH) violations or loss time injuries on the site. In the future, a safety summary report of projects will be provided to the Board on a semi-annual basis.

Motion by Vaara, supported by Baker, to receive and file the safety summary report as presented.

ADOPTED: Yeas - 3  
Nays - 0

7. Budget and Flow Allocations for 2022/2023

Bruce Manning presented a Memorandum requesting the Board approve the revised proposed operating budget, cost allocation and Capital Improvement Program for the rate year beginning July 1, 2022. He provided an overview of the revised budget, flow split, and capital projects planned for 2022. Mr. Manning also discussed the change in GLWA's rates as a result of the Highland Park bad debt charges.

Motion by Baker, supported by Vaara, to approve the revised proposed budget, cost allocation and Capital Improvement Program for the rate year beginning July 1, 2022, as presented

ADOPTED: Yeas - 3  
Nays - 0

8. Change Order.

The following Change Orders were submitted to the Board for approval:

- a) Rotor Electric Change Order No. 1 for Contract Time Extension and Additional Funding of \$1,000,000. Motion by Vaara, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- b) CSM Mechanical Change Order No. 2 for Contract Time Extension and Additional Funding of \$500,000. Motion by Vaara, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- c) HESCO Change Order No. 1 for Contract Time Extension. Motion by Vaara, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- d) Konecranes Change Order No. 1 for Contract Time Extension. Motion by Vaara, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- e) PM Technologies Change Order No. 1 for Contract Time Extension and Additional Funding of \$500,000. Motion by Vaara, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- f) Kennedy Industries Change Order No. 1 for Contract Time Extension. Motion by Vaara, supported by Baker, to approve the Change Order as presented.

ADOPTED: Yeas - 3  
Nays - 0

- g) Walsh Construction Change Order No. 23 for the NESPS Pump & Electrical Upgrades Project for a net increase in the amount of \$878,254.81. Motion by Vaara, supported by Baker, 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. 20 for Walsh Construction for NESPS Pump & Electrical Upgrades Project (GMP Phase) in the amount of \$857,532.32 with a transfer to the Oakland County Treasurer in the amount of \$4,053.82. Motion by Baker, supported by Vaara, to approve the Construction Pay Estimate as presented.

ADOPTED: Yeas - 3

Nays - 0

- b) Construction Estimate No. 15 for Marra Services for NI-EA Contract No. One for PCI-4 Rehabilitation in the amount of \$184,190.88. Motion by Vaara, supported by Baker, 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 Baker, supported by Vaara, 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 Baker, 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:

a) Reimbursement of Macomb County Incurred Expenses and Costs			
1) Macomb Invoice No. ARP220128		\$	26,291.30
b) ASI			
Invoice No. 40	O&M	\$	76,734.80
c) CH2M			
Invoice No. 40-705773CH039	O&M	\$	1,407.08
d) Clark Hill			
1) Invoice No. 1202217	NI-EA	\$	1,782.00
2) Invoice No. 1202243	NI-EA	\$	5,335.00
e) CSM			
Invoice No. 21OMIDD-016	O&M	\$	12,964.30
f) GLWA			
Invoice No. 900-2101-W	NESPS	\$	133.00
g) Hesco			
Invoice No. 2213585	O&M	\$	3,815.00
h) Kennedy Industries			
Invoice No. 631379	O&M	\$	396.00
i) Meadowbrook Insurance			
Invoice No. 7933	NESPS	\$	44,200.00
j) METCO			
Invoice No. 1811-41	O&M	\$	98,405.61
k) Motor City Electric Company			
1) Invoice No. 94498	O&M	\$	180.00

2)	Invoice No. 94499	O&M	\$	225.00
3)	Invoice No. 94501	O&M	\$	90.00
l)	NTH Consultants, Ltd			
1)	OMID System Immediate Repairs			
	Invoice No. 629630	O&M	\$	520.78
2)	Engineering Design Services Rehabilitation of NI-EA Sections PCI-4.			
	Invoice No. 629631	NI-EA	\$	51,082.62
3)	Contract No. 1 PCI-4			
	Invoice No. 629632	NI-EA	\$	91,830.60
4)	Eng./Consult. Services NESPS Upgrade			
	Invoice No. 629634	NESPS	\$	990.61
5)	Consulting Services – System Inspection			
	Invoice No. 629635	O&M	\$	3,085.34
6)	Rehabilitation Program 2021 Closeout Services			
	Invoice No. 629636	O&M	\$	914.18
7)	Additional NESPS Maintenance Eng. Services			
	Invoice No. 629637	NESPS	\$	616.93
m)	PMA Consultants			
	Invoice No. 03559.01-24	O&M	\$	16,999.58

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

ADOPTED: Yeas - 3  
Nays - 0

13. Other Business.

Joel Brown advised that the site visit is being planned for the last week of July or at the end of August.

14. Adjourn.

Motion by Vaara, supported by Baker, to adjourn the June 15, 2022, meeting at 1:09 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 10:00 a.m., Eastern Standard Time on July 20, 2022.

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 June 15, 2022 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 15<sup>th</sup> day of June 2022



---

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

## **Agenda Item No. 4**

### Public Comment

**Agenda Item No. 5**

Engineering Work Orders





## Oakland-Macomb Interceptor Drain Drainage District

---

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

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

**SUBJECT: NTH EWO for CS-9 Hatch Cover Damage Repair Inspection Observation  
and CCA and Creation of CS-9 Hatch Cover Damage Repair Project**

**DATE: July 20, 2022**

As the OMID Board is aware, on August 31, 2021, damage occurred to the CS-9 fiberglass platforms and approximately 1400 feet of OMID PCI-5 HOBAS liner downstream of CS-9. The damage occurred as a result of two CS-9 roof hatches becoming dislodged and falling into the sewer as part of startup activities related to the CS-9 Gate Design Project. A claim was filed with the OCIP Builder's Risk carrier, Ace American Insurance Co. (now CHUBB), to cover the costs of the repair. These costs included effort from Walsh Construction Co. II (Walsh) and their subcontractors to perform the repair (totaling \$532,481), as well as inspection observation costs for NTH Consultants, Inc. (NTH) to observe the work and perform construction contract administration (CCA) services (totaling \$59,500). Accordingly, the total amount of the claimed damages is \$591,981. On June 14, 2022, we received notice from the insurance carrier that the entirety of the claim was approved (see attached), less the insurance deductible of \$25,000 for a total amount of \$566,981. (Note, per the contract, Walsh is to absorb the cost of this deductible.)

Now that CHUBB has approved reimbursement of the work, we would like to proceed with the repair effort. As such, the appended Engineering Work Order has been developed authorizing NTH to provide inspection observation and CCA over the work according to their April 5, 2022 proposal for a not to exceed amount of \$59,500. NTH is prepared to immediately engage in this effort. A change order has also been prepared for Walsh to proceed with the construction work and is presented as a later agenda item.

In addition, we would like to establish a new project, titled the CS-9 Hatch Cover Damage Repair project to facilitate payment to both NTH and Walsh for work related to this effort. This is needed so that these repair costs are distinguished from the CS-9 Gate Design project and are not capitalized. The total budget for the project is \$566,981 as shown in the appended project estimate.

**Requested Action: Approve the attached Engineering Work Order to increase contract #2603 by a not-to-exceed amount of \$59,500 for inspection observation and CCA of the CS-9 hatch cover damage repair.**

**Requested Action: Approve the creation of the CS-9 Hatch Cover Damage Repair Project having a total budget of \$566,981.**

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

One Public Works Drive

Phone: (248) 858-0958

Waterford, Michigan 48328-1907

**63900-6010101-149800-99900-730373-STD**No. D - 449**ENGINEERING WORK ORDER**FOR: NI-EA CS-9 Gate Design-Hatch Drop Repair Support ServicesAmendment to Contract #2603 For Additional Professional ServicesTO: NTH Consultants, Ltd.DATE: 7/5/22**DESCRIPTION****Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. Additional Special Services and Exhibit D – Estimated Fees**

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the Oakland-Macomb Interceptor Drain (OMID) North-Interceptor East Arm CS-9 Gate Design Project that falls under the aforementioned sections of contract #2603. This EWO serves as your approval for compensation to retain Jacobs under contract and perform the following additional services as delineated in your attached April 5, 2022 proposal.

- Provide project administration to enable the project to be completed within the required schedule. This will include coordination among team members, weekly progress meetings with the Owner and team members to review work plan and schedule progress, prepare monthly progress reports, and invoicing.
- Provide Construction Contract Administration (CCA) services during construction. The Construction Contract Administrator will manage and oversee field staff and coordinate day-to-day field engineering and contract administration services with representatives of the OMIDDD. Moreover, the CCA team will provide response to incoming correspondence, shop drawing reviews, daily field report review, coordination of the daily activities, keeping abreast of daily flow control operations by the Flow Control Manager (FCM), and perform related administrative tasks including document management and control services using a cloud-based document management software.
- Provide an experienced Engineer throughout the duration of lining repair and CS-9 rehabilitation activities. We will prepare daily reports detailing the construction activities including photo documentation of daily work.
- Be the initial evaluator of any claims by the Contractor and provide recommendations for resolution. Prepare change orders, provide estimates, and draft correspondence to the Owner, Contractor and other related parties subject to any claim considerations.

**JIM NASH****OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

Page 1 of 2

10/1/13

DESCRIPTION (Cont'd)

Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. Additional Special Services and Exhibit D – Estimated Fees

- Review Contractor progress payment requests and provide recommendations to the OMIDDD Board relative to actual work progress, as well as any delays or hold backs that may be appropriate. Prepare pay estimate documentation as necessary.
- Work with OMIDDD’s schedule consultant, Project Management Associates (PMA) to evaluate the contractor’s schedule, and monthly update schedules.
- Using the Contractor’s submittals/shop drawings as a basis, review and approve as-built record drawings from the Contractor.

The associated fees for the above tasks are \$59,500.

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 \$59,500. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.

PREPARED DATE: 7/12/2022

*Joel Brown*

By: Joel Brown, P.E.  
Project Engineer  
OCWRC

RECOMMENDED DATE: 7-14-2022

*Stephen Downing*

By: Stephen Downing, P.E.  
Construction and Maintenance Manager  
MCPWO

ACCEPTED DATE: 07-12-2022

*Jeff P. Jaros*

By: Jeff P. Jaros  
President  
NTH Consultants, Ltd.

APPROVED DATE: 7/15/2022

*Sid Lockhart*

By: Sid Lockhart, P.E.  
Special Projects Manager  
OCWRC

Approved by Drainage Board on: \_\_\_\_\_



## **Oakland-Macomb Interceptor Drain Drainage District**

---

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

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

**SUBJECT: NTH EWO for NI-EA Rehabilitation Projects-Additional Odor and Air  
Pressure Sampling Effort**

**DATE: July 20, 2022**

On January 19, 2022, the OMID Board approved a NTH Engineering Work Order (EWO) allowing NTH to engage a subconsultant, Jacobs, to perform odor and pressure sampling of the North Interceptor-East Arm (NI-EA) and the OMID. The sampling was needed to determine the ventilation required to perform work within the NI-EA as part of the NI-EA. Contract 2 PCI-18 and PCI-19 Rehabilitation project as well as assess pressurization of the CS-9 structure after the CS-9 hatch damage occurred. During sampling in April 2022, the project team determined that an additional two-week period of sampling was needed beyond the initial 4 weeks to capture all the flow control scenarios required. The labor and equipment rental costs associated with the additional sampling period, which totals \$18,554 and is detailed in NTH's appended July 8, 2022 proposal, was beyond Jacob's original scope of work.

Accordingly, an EWO has been created to account for these additional out-of-scope sampling services for a not-to-exceed amount of \$18,554. There is sufficient budget in the NI-EA project to cover these costs. Jacobs has since completed the work and is in the process of finalizing a summary report of the sampling effort.

**Requested Action: Approve the attached Engineering Work Order to increase contract #2603 by a not-to-exceed amount of \$18,554 for additional odor and pressure sampling services on the NI-EA and OMID.**

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

One Public Works Drive

Phone: (248) 858-0958

Waterford, Michigan 48328-1907

**84917 - 6010101 - 149015 - 730639 - 2603 - 1-3308 - Ch.21****v#4716 - li#24138 - exp. 12/31/23**No. D-450**ENGINEERING WORK ORDER**FOR: Additional OMID NI-EA Design Services-Odor and Pressure SamplingAmendment to Contract #2603 For Additional Professional ServicesTO: NTH Consultants, Ltd.DATE: 7/5/2022**DESCRIPTION****Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. Additional Special Services and Exhibit D – Estimated Fees**

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the Oakland-Macomb Interceptor Drain (OMID) North-Interceptor East Arm Rehabilitation Projects that falls under the aforementioned sections of contract #2603. This EWO serves as your approval for compensation to continue to retain Jacobs under contract and perform the following additional services as delineated in your attached revised July 8, 2022 proposal.

**Task 2: Data Acquisition**

- Provide labor and equipment to perform sampling on the OMID and NI-EA for an additional 2-week period.

The associated fee for the above task is \$18,554.

**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 \$18,554. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.**

PREPARED      DATE: 7/12/2022

RECOMMENDED      DATE: 7-14-2022



By: Joel Brown, P.E.  
Project Engineer  
OCWRC

By: Stephen Downing  
Construction and Maintenance Manager  
MCPWO

ACCEPTED      DATE: 07-12-2022

APPROVED      DATE: 7/15/2022



By: Jeff P. Jaros  
President  
NTH Consultants, Ltd.

By: Sid Lockhart, P.E.  
Special Projects Manager  
OCWRC

Approved by Drainage Board on: \_\_\_\_\_

## **Agenda Item No. 6**

### **Change Orders**



**CHANGE ORDER NO. TWENTY-FOUR**  
**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.) Additional Painting Scope for NESPS Building and appurtenances;
- 2.) Fiber Optic Underground Conduit Replacement;
- 3.) Acquisition of Hydraulic Jacking Equipment for Knife Gate Valve Removal/Replacement.

\*\*\*\*\*

Address:

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

Change Order No. 24 Date: July 08, 2022

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
24 -1	<p><b><u>LOCATION:</u></b></p> <p>The Northeast Sewage Pumping Station;            Detroit, Wayne County, Michigan</p> <hr/> <p><b><u>DESCRIPTION (Extra/ Add):</u></b></p> <p>Provide enhanced scope for additional painting of the NESPS structure and equipment components to complement the original painting schedule.</p> <p><b><u>REASON:</u></b></p> <p>A detailed inspection of the existing NESPS facility coating system condition demonstrated the need for upgrade coatings (painting) of portions of the building exterior, Motor Level (Operating) floor and interior surfaces, intermediate floors, and the Pump Operating Floor. These improvements are considered appropriate to raise the general appearance and maintenance serviceability of the existing facility to a level commensurate with other newly replaced equipment and building elements.            Attachment:            Walsh Construction PCI # 970144</p>	LS	1 ea.	\$151,201.35	\$151,201.35	-0-



OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 24

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
24 -2	<p><b><u>DESCRIPTION (Add/ Extra)</u></b></p> <p>Install an upgraded Fiber Optics Cable and Conduit installation extending from the new NESPS Electrical Building to the existing point of connection at the GLWA Chemical Building (Water Purification Plant).</p> <p><b><u>REASON:</u></b></p> <p>The existing Fiber Optics (FO) communication cable provides the sole means of Security and Ovation Control communication between the NESPS and the GLWA Systems Control Center at the Huber Facility. Originally constructed (partially underground) in shallow, lightweight direct burial conduit, this sensitive installation has remained a serious concern over possible damage throughout the NESPS Pump and Electrical Upgrades project, and would remain so in the future if not completely replaced with an upgraded system.</p> <p>The replacement installation will provide an underground steel-reinforced concrete conduit "duct" bank constructed at a specified depth designed to resist damage from surface activity and provide long term robust protection for the sensitive FO cables.</p> <p>The proposed work will also include the furnishing, installation, and testing of new FO cables, a new panel connection to the existing Chemical Building SEC, and the eventual demolition/ removal of the existing FO cables following their abandonment.</p> <p>Attachment: Walsh Construction Co. PCI 970120</p>	LS	ea.	\$400,798.85	\$400,798.85	-0-
24 -3	<p><b><u>DESCRIPTION (Extra/ Add):</u></b></p> <p>Convert a hydraulic jacking unit designed for 84" Knife Gate Valve maintenance from a rental basis to a full purchase acquisition as an OMID DD asset at the NESPS.</p>	LS	ea.	\$18,664.88	\$18,664.88	-0-

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 24

	Location-Description-Reason	Unit	Est. Qty.	Unit Price	Amount Increase	Amount Decrease	
24 -3	<p><b>REASON:</b></p> <p>Initially intended as a short-term rental component for the Pump # 5 and #6 Knife Gate Valve (KGV) Repair task, the period of rental from the Williams Form Engineering Co. has extended to a duration where economic considerations justify an outright purchase rather than accruing additional rental charges.</p> <p>This apparatus will now become a versatile component that when assembled with other existing OMID acquired equipment, will be readily available for current needs, as well as in the future for KGV actuator maintenance and/or emergency repairs on Pumps # 1 through # 6.</p> <p>Attachment: Walsh PCI No. 970146</p> <p align="center"><b>End of Change Order No. 24 Line Items</b></p>						
	Summary, Change Order # 24 Line Items				Amount Increase	Amount Decrease	
	Totals	\$570,665.08	-0-		Net Changes (Increase)	\$570,665.08	-----

OMID DD NESPS; Pump & Electrical Upgrades Project; C.O. # 24

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

Date: 7-8-2022

Recommended By:  
John Michalski, P.E.  
Engineer of Design, Applied Science, Inc.

Date: 7/12/2022

Approved By:  
Joel Brown, P.E.  
Project Manager, WRC

Date: 7/12/2022

Approved By:  
Stephen Downing  
Construction and Maintenance Manager, Macomb County Public Works

Date: 7/12/2022

Approved By:  
Sid Lockhart, P.E.  
Manager of Special Projects, WRC

Date: 7/15/2022

Approved by:  
Steve Korth, P.E.  
Manager, WRC

Date: July 18, 2022

All of 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:

DocuSigned by:  
  
5BBF73D8AD9D445...

Date Jul-08-2022 | 2:39 PM CDT

Title vice President

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. 24 was approved by the Drainage Board on: \_\_\_\_\_ Date: \_\_\_\_\_

## Attachment No. 1 to Change Order No. Twenty-Four

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. Twenty-Four  
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	March 24, 2023
Contract Final Completion Date	June 23, 2023
Original GMP Contract Value (Including Control Structure 9)	\$ 42,863,185.19
Pre-Construction Phase, Unused Budget	\$ 70,196.70
C.O. Values, # 7, 8, 9, 10, 11, 12, 13, 14, 15,16, 17,18, 19, 20, 21,22 and # 23 ( <u>Not Including</u> CS-9 C.O. total of \$ 63,100.29)	\$ 3,191,514.76
Change Order Value, this C.O. # 24	\$ 570,665.08
<b><i>Adjusted GMP Contract Value (incl. this C.O. # 24)</i></b>	<b>\$ 46,695,561.73</b>

**CHANGE ORDER NO. 1**

Oakland-Macomb Interceptor Drain Drainage District Board  
 For Construction of the OMID CS-9 Hatch Cover Damage Repair (Contract #5977)  
 Located in City of Detroit, Wayne County, MI

CONTRACTOR: Walsh Construction Company II, LLC  
 Address: 3031 West Grand Blvd. Ste. 640  
Detroit, MI 48202

Authorization for Changes In and Extras to Contract  
 Change Order No: 1 Date: 7/10/2022

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease	
1-1	<p><b>LOCATION:</b></p> <p>CS-9 and approximately 1400 feet of downstream of PCI-5</p> <p><b>DESCRIPTION:</b></p> <p><b>(Change/Add):</b></p> <p>Grant Walsh authorization to proceed with repair of damage to the CS-9 fiberglass walkways and PCI-5 HOBAS liner downstream of CS-9, in accordance with their appended repair proposal, that occurred as a result of two CS-9 hatch covers dropping into the interceptor during work on the CS-9 Gate Design project.</p>	LS	1	\$507,481.00	\$507,481.00	-	
1-1	<p><b>REASON:</b></p> <p>On August 31, 2022, during startup activities related to the CS-9 Gate Design project, two CS-9 hatch covers were inadvertently left unbolted upon conclusion of the day's activities. The hatch covers ultimately became dislodged from the frame and fell into the interceptor between August 31, 2022 and Septemeber 1, 2022 causing damage to the PCI-5 HOBAS liner within the first 1400 feet downstream of CS-9 (see appended NTH Daily Field Report dated 9/10/2021). An insurance claim, #KY21K2817628 was made under the OCIP Builder's Risk Policy #I11175077001 issued by ACE American Insurance Company (ACE). Walsh's submitted repair costs, totaling \$532,481 and attached to this change order, were ultimately accepted by ACE, less a \$25,000 deductible to be paid by Walsh, (see appended Proof of Loss Sworn Statement) in addition to construction observation costs by NTH Consultants, Inc for a total of \$59,500 (work to be issued separately from Walsh). A check will be issued to OMIDDD to disburse the balance of \$507,481 to Walsh as the repairs are made. This effort is being facilitated under a different project to avoid capitlizing these costs against the installed CS-9 gate infrastructure, as they are repair efforts to existing work and not part of the CS-9 Gate Design.</p>						
					Item A Total	\$507,481.00	\$0.00
					Total	\$507,481.00	

Change Order

**CHANGE ORDER NO. 1**

Oakland-Macomb Interceptor Drain Drainage District Board  
For Construction of the OMID CS-9 Hatch Cover Damage Repair (Contract #5977)

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
WRC: Joel Brown, P.E., Chief Engineer

Recommended by: \_\_\_\_\_ Date: \_\_\_\_\_  
Applied Science John Michalski, P.E., Vice President

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
MCPWO Manager: Stephen Downing (Construction & Maintenance Manager)

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
WRC Manager: Sid Lockhart, P.E. (Special Projects Manager)

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
WRC Manager – Steven Korth, P.E.

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_  
Title

of: Walsh Construciton II, LLC

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order No. 1 was approved by the Drainage Board on: \_\_\_\_\_ Date: \_\_\_\_\_



## Oakland-Macomb Interceptor Drain Drainage District

---

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

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

**SUBJECT:** Approval of Detroit Elevator Co. Service Maintenance Contract Change Order to formally Transfer the Contract to Kone and Extend Contract Time to Allow for Continued Elevator Maintenance Services

**DATE:** July 20, 2022

On June 15, 2022, the OMIDDD Board approved contract extensions for several preventive, corrective and emergency maintenance services for the NESPS and OMID mechanical, electrical, and instrumentation equipment. At that time, it was mentioned that the Detroit Elevator Co. (DEC) elevator maintenance contract had yet to expire and would be addressed at the July 2022 OMID Board meeting.

DEC was recently bought by Kone and has honored the existing contract #6076 between OMID and DEC. This contract is set to expire on August 1, 2022. To ensure continuing preventive, corrective and emergency maintenance services at the NESPS, particularly during the NESPS Pumping and Electrical Upgrades Project, we recommend extending this contract another year while a new contract is established. The contract amount does not need to be increased at this time. A change order has been written to facilitate this extension. At this time, Kone has not finalized their scope and rate proposal for inclusion into the change order. As such, we request that the Board authorize us to finalize the change order with Kone and allow the OMIDDD Board Secretary to sign the change order when complete.

**RECOMMENDED ACTION:** Authorize the completion of the change order with Kone to extend the DEC-Kone NESPS elevator maintenance service contract time by one year, to August 1, 2023. Further, authorize the OMIDDD Board Secretary to sign the change order when complete.

**CHANGE ORDER NO. 1**

Oakland-Macomb Interceptor Drain Drainage District Board  
 For Extension of OMIDDDD-DEC (Kone) Maintenance Services Contract #6076  
 Located in Macomb and Wayne County, MI

CONTRACTOR: Kone  
 Address: 42970 West 10 Mile Road  
Novi, MI 48375

Authorization for Changes In and Extras to Contract  
 Change Order No: 1 Date: 7/11/2022

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease	
1-1	<b><u>LOCATION:</u></b> NESPS						
1-1	<b><u>DESCRIPTION:</u></b> <b>(Change/Add):</b> This change order formally transfers the existing contract with Detroit Elevator Co. to Kone. The change order also extends the existing contract #6807 another year to August 1, 2023 for Kone to continue to provide preventive, corrective and emergency crane maintenance on the NESPS dry well elevator in accordance with the appended proposal dated July XX, 2022. No additional funding is needed at this time.	Year	1	N/A	1 Year	-	
1-1	<b><u>REASON:</u></b> OMIDDDD is in need of continued preventive, corrective and emergency elevator maintenance services to ensure efficient and effective operation of the NESPS dry well elevator. Due to the criticality of the elevator for onsite project use, Kone can continue to provide these services while the NESPS Pumping and Electrical Upgrades Project is ongoing until a new contract is established for elevator maintenance						
					Item A Total	\$0.00	\$0.00
					Total	\$0.00	



Change Order

**CHANGE ORDER NO. 1**

Oakland-Macomb Interceptor Drain Drainage District Board  
For Extension of OMIDDDD-DEC (Kone) Maintenance Services Contract #6076

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
WRC: Joel Brown, P.E., Chief Engineer

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
MCPWO Manager: Stephen Downing (Construction & Maintenance Manager)

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
WRC Manager: Sid Lockhart, P.E. (Special Projects Manager)

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
WRC Manager – Steven Korth, P.E.

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_  
Title

of: Kone, Inc.

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order No. 1 was approved by the Drainage Board on: \_\_\_\_\_ Date: \_\_\_\_\_

**Agenda Item No. 7**

Construction Estimates

**OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD**  
**Northeast Sewage Pumping Station- Pump and Electrical Upgrades Project**  
**Located in the City of Detroit, Wayne County, Michigan**

**Regular Construction Estimate No. Twenty-One**  
**Page One of Two**

**June 01, 2022 through June 30, 2022**

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

<b>Construction Manager at Risk:</b>	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, not including CS-9 and Pre-Const. Balance	\$44,107,745.18
Expended Pre-Construction Phase Amount	(\$1,174,363.30)
<i>Unused Pre-Construction Phase Budget</i>	(\$70,196.70)
<i>CS-9 Budget from GMP</i>	(\$3,251,117.72)
NESPS Pump & Elec. Upgrades Original Contract Budget	\$39,612,067.46
Change Orders, This Estimate: C.O. No. 23	\$878,254.81
Previous C.O.s: (C.O.# 7, 8, 9, 10, 11,12, 13, 14, 15, 16, 17, 18, 19, 29, 21 and 22)	\$2,313,259.95
Unused Pre-Construction Phase Budget	\$70,196.70
<b>Adjusted Construction Contract Amount: ( N/I CS-9)</b>	<b>\$42,873,778.92</b>
<hr/>	
Sub-Total To Date: (CS-9 Costs are Not included on this Estimate)	\$27,179,591.80
Less Deductions:	None
Gross Estimate: (Work in Place)                      Value Complete = 63.4 %	\$27,179,591.80
Less Amount Reserved (Adjusted for partial release to subcontractors)	\$2,186,868.89
Total Amount Allowed To Date:	\$24,992,722.91
Less Previous Estimates:	\$21,392,590.13
Current Payment Due	\$3,600,132.78
Reserve Pay to Contractor:	\$0.00
Balance to Finish: \$15,694,187.12	Accounting Auditor: <i>Jeff Ragle</i>
<hr/>	
Amount To Be Reserved (10% of 1/2 C.V., less CS-9 retention)	\$2,186,868.89
Less Previous Transfers To Reserve (N/I CS-9 Contract Retention)	\$2,142,956.15
<b>Amount of Current Transfer</b>	<b>\$43,912.74</b>

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD  
Northeast Sewage Pumping Station- Pump and Electrical Upgrades Project  
Located in the City of Detroit, Wayne County, Michigan  
Walsh Construction Co. II; Construction Manager at Risk

Regular Construction Estimate No. Twenty-One  
Page Two of Two

6/01/ 2022 through 6/30/ 2022

Prepared by: Lawrence T. Gilbert

Date: 7-7-2022

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

Recommended by: John Michalski

Date: 7/12/2022

John Michalski, P.E., ASI

Recommended by: Joel Brown

Date: 7/12/2022

Joel Brown, P.E. Oakland County WRC

Recommended by: Stephen Downing

Date: 7/12/2022

Stephen Downing; Macomb County OPWC

Approved for Payment by: Sid A. Lockhart

Date: 7/15/2022

Sid Lockhart, P.E.; Special Projects Manager, Oakland County WRC

Regular Construction Estimate No. 21 (June, 2022)

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. 16

Period: 6/01/22 through 6/30/22

Department No.:	6010101	Account No.:	731472
Fund No.:	84917	Program No.:	149015
Project No.:	100000003308	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			
Cleveland, OH 44103			

Original Construction Contract Amount	\$14,732,510.00
Previous Change Orders: No. One and Two	\$808,198.88
Change Orders This Estimate: None	\$0.00
Total Net Change Orders:	\$808,198.88
Adjusted Contract Amount:	\$15,540,708.88
Sub-Total To Date	\$9,290,592.56
Less Deductions: None	\$0.00
Gross Estimate, Work in Place (59.8% Complete)	\$9,290,592.56
Less Amount Reserved (Max. at 10% of 50% C.V.)	\$777,035.44
Total Amount Allowed To Date:	\$8,513,557.12
Less Previous Estimates	\$8,182,297.02
Net Payment Request To Be Paid To Contractor:	\$331,260.10
Reserve Payment to Contractor:	\$0.00
Balance to Finish: \$6,250,116.32	Accounting Auditor: <i>Jeff Ragle</i>
Amount to be Reserved from Above	\$777,035.44
Less Previous Transfers To Reserve:	\$777,035.44
Amount of Current Transfer	\$0.00

Prepared by: *Lawrence T. Gilbert*  
 Lawrence T. Gilbert, P.E.; NTH Consultants Ltd. Date: 7-8-2022

Recommended by: *Saju Sachidanandan*  
 Saju Sachidanandan, P. E.; NTH Consultants Ltd. Date: 7-8-2022

Recommended by: *Joel Brown*  
 Joel Brown, P.E. Oakland County WRC Date: 7/12/2022

Recommended by: *Stephen Downing*  
 Stephen Downing; Macomb County OPWC Date: 7-12-2022

Approved for Payment by: *Sid Lockhart*  
 Sid Lockhart, P.E.; Special Projects Manager, Oakland County WRC Date: 7/15/2022

**Agenda Item No. 8**

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., N. Kacynski, 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 Engineering, Inc.

### July 20, 2022 OMIDDD Board Meeting

---

The following provides a status update as of the writing of this report (July 11, 2022) 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

##### Project Budget Summary (including EWOs):

• Adjusted Project Budget (including EWOs and Fan Testing Allowance):	\$567,447.00
• Total Spent (through May 2021):	\$566,441.58
• Additional Data Gathering Budget (under NTH):	\$84,926.00
• Additional Data Gathering Expenditure to date:	\$1,282.00

##### Status of Major Project Tasks:

- System-wide Odor/Corrosion Study and additional requested work under Jacobs Engineering is substantially complete. Jacobs delivered on May 28, 2021 a draft technical memorandum that summarizes the NI-EA Phase 1 odor sampling performed at the NESPS and in PCI-4. The initial contract was extended to 5/15/2022. This initial work will be completed under a new contract (NTH Contract #2603), under which Jacobs has recently performed additional data gathering (H2S and pressure readings) within the NIEA and OMID portions of the system to further evaluate impacts from flow control sequencing. Final Report will be updated to reflect the new data.

#### SRF Segment 2 Status:

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

#### SRF Segment 3 Status:

**Contract 4: Complete**

# July 20, 2022 OMIDDD Board Meeting

---

## **SRF Segment 4 Status:**

### **Contract 5A/5B: Complete**

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

### **Contract 6: Complete**

### **Contract 7 (NIEA 110 feet of Emergency Rehab) – Complete**

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

### **Construction Complete**

## **NESPS & OMID Maintenance, Operations & Upgrades Status:**

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

- Mersino Dewatering is under contract for standby emergency bypass pumping.
- The OMIDDD Project Team has finalized an approach for keeping the 15 Mile Road bypass pumping arrangement (initially constructed in summer 2021) intact. Plans are now in place for the existing bypass piping remaining on site as a proposed below grade installation pending final agreement with ITC.
- Remaining items in the final emergency plan include punch-list and optimization steps for electrification, the modification of one manhole, modifications at the 15-Mile Road Site, and overall optimization of the Emergency Plan per above.

### **Additional work being performed under Metco Maintenance Contract for NESPS:**

- Flow control operations related to OMID/MID/NIEA sewer repair and upgrade projects are ongoing.
- Mechanical and Electrical corrective/preventative maintenance schedules continue.
- Coordination between GLWA, MID, NESPS, and Pump/Electrical Upgrade Project has not affected station operations nor hindered performance or abilities to meet demands.
- Wet well sediment inspection and bar screen cleaning are now quarterly tasks. The next inspection will be performed in September, 2022.
- The OMIDDD Project Team is continuing to review past wet well/bar screen data. This effort will be used in developing best practices maintaining overall de-ragging and sediment removal efforts. Options for future automated and/or optimized cleaning are being researched and considered.



# July 20, 2022 OMIDDD Board Meeting

---

- A NESPS Controls Workshop with the OMID team and GLWA is an ongoing process, designed around new operational parameters and control strategies.
- NESPS Health and Safety Plan finalized.

## **Overall NESPS Station Performance Report:**

- Sanitary Pumps #2 #4, #5, and #6 ready for duty. Total pump capacity equals 500-cfs
- Specific data logging software has been installed within the VFD drive PLC. Siemens maintains the ability to monitor VFD performance and fault/trip conditions.
- Rotor integrated the existing Eaton Power Expert (Quality Power Monitoring Meter) located on the VFD Sanitary Pump #4 switchgear into the OMID SCADA system. We can now monitor/trend incoming DTE electrical power. No faults, voltage sags or spikes noted.
- Sanitary Pump #1 remains out of service as part of the upgrade project. The Pump #1 knife gate valve has been refurbished and installed (see NESPS Rehab Report below).
- New transformer (T3) has been de-energized for permanent re-configuration. This outage is scheduled for 4-6 weeks. Utility transformer #4 will remain under load. Station is considered "single ended."
- NEXGEN asset management in use.
- Gas detection in use.
- Bio Filter performance normal with no odor complaints or issues to report. Parameters checked daily and shared with Bio Aire on a weekly basis.
- Overall General Housekeeping tasks in order. Minor maintenance activities addressed in a timely manner.

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

- Daily flow control operations now support MID/OMID/NIEA repair and improvement projects.
- All LOTO protocols are in-place with no major issues to report.
- System-wide communications are good.
- CS-6 gate remains out of service (not necessary for current flow control operations).
- Preventative maintenance tasks and emergency inspections of control structures were completed after minor issues addressed. Reports are on file.
- CS-7 in stand-by mode ready for service.
- CS-8 in stand-by mode ready for service.
- CS-5 in stand-by mode ready for service.
- CS-9 in stand-by mode ready for service.
- PCI-5 Hobas lining repair is pending final insurance carrier approval.
- Routine daily rounds and inspection made with no major maintenance issues to report.

## **Other System Operation Issues**

- O&M Manual 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.

# July 20, 2022 OMIDDD Board Meeting

## OMID Control Structure Upgrades Status:

- Hatch and Access improvements complete 8/14/20, CSM Contract closed-out.
- ASI is now contracted for additional upgrades to control structures that considers long-term operability and upgrades. Initial planning in process.

## OMID System 3-Year Spot Repairs Status:

- Remaining 3-year spot repair work consists of step removal at one manhole in PCI-8, delayed due to access issues and timing of other work.

## OMID System 6-Year Inspection Status:

- The 6-Year inspection began July 8, 2021. Flow Control delays have hampered inspections. Inspections of PCI-7 were performed on June 21, 2022 and additional inspections are pending.
- Some damage noted to the CIPP Liner installed in 42" section of PCI-11A. Current plan is for Doetsch to remove the damaged section, grind the edges, and assess if anything more is necessary. Work has been delayed due to permit and access issues, as well as availability of work crews.



Infiltration Dripper between PCI-7-106 and PCI-7-107



Hobas liner between PCI-7-17A and PCI-7-108

## NIEA Repairs (Design/Construction)

### Contract 1 (PCI-4 Rehabilitation): In Construction

- Amt Invoiced:** Construction cost to date is \$9,200,059.56 representing 59.8% of the Contract value.
- Schedule Status:** Current adjusted Substantial Completion date is December 2, 2022. Currently, the Contractor is operating in excess of 5 weeks behind the adjusted schedule but anticipates this shortfall can partially be made up with productive lining and grouting work now beginning regular production.

### Contract 1 (PCI-4 Rehabilitation) Construction Status:

## July 20, 2022 OMIDDD Board Meeting

- Currently, 100% of the Channeline segments are now on site and being assembled, and 100% of the Rockhard SCP segments have been manufactured and delivered to the jobsite. Progress continues on the QuakeWrap lining pipe at the Hastings, MI manufacturing facility.
- Initial adjustments to pipe carrier are complete and carrier is functioning properly.
- Initial transition section of QuakeWrap lining segment is installed; bulkhead complete, and first few pipe sections (about 64 feet) have been installed, homed and grouted in place.
- Geotechnical monitoring of construction activities at the access shaft location indicate continuing stable conditions.



**Channeline Sections Ready  
for Assembly**



**Modifications being  
made to optimize  
pipe carrier  
(above and right)**



### **Contract 2 (PCI-18/19 Rehabilitation): Design Complete**

**Amt Invoiced:** \$2,224,421 out of currently projected study/design budget of \$2,400,570;

**Schedule Status:** Contract 2: 100% design work complete; expected to bid in 2022 Q4 pending permit and easement acquisition resolution and coordination with GLWA projects that impact flow control requirements.

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

- NI-EA OMID Contract No. 2 PCI-18 & 19 Rehabilitation 100% drawing set has been workshopped with OMIDDD and is ready for advertisement, pending GLWA agreement.

## July 20, 2022 OMIDDD Board Meeting

- Flow control measures necessary to complete Contract 2 work may impact a downstream GLWA project (DB-226). Contract 2 is being structured such that potential interference between the two contracts can be mitigated, and major interference is not expected at this time.
- Current City of Detroit permitting and easement issues are nearly resolved; certain follow-up issues remaining.
- Working with GLWA to develop cost sharing agreement; Draft agreement is currently being negotiated.

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 TBD* (Contract 2)
MDEQ Submittal (Part 41)			4/28/2020 (Contract 1) Pending* (Contract 2)
Issued for Bid			6/10/2020 (Contract 1) TBD* (Contract 2)
Bid Opening			9/30/2020 (Contract 1) TBD* (Contract 2)
Contract Award and NTP			12/16/2020 and 1/04/2021 (Contract 1) TBD* (Contract 2)
Subtotal - Design	\$2,400,570		
Final Completion of Construction	\$3,500,000	\$35,000,000	12/2/2022 (Contract 1) 8/30/2024 (Contract 2, estimated)

### NESPS Pump and Electrical Upgrades Project

**Budget Status:** \$1,280,139 billed out of current Design Budget of \$1,382,430; \$968,018 out of the current CCA Budget of \$2,443,262. Total construction budget currently established as \$46,187,996.94, including contingencies, through proposed C.O. #23). The total amount invoiced to date as of June 30, 2022, is \$ 30,437,884.05 (including the now completed and operational Control Structure 9 Bulkhead Gate facility, and adjusted for stored material inclusion in major work activities), representing 65.9% of the combined project (Pump & Electrical Upgrades and CS-9 Gate Installation).

**Schedule Status:** Currently work is approximately 5 months late, resulting from a combination of supply chain issues and other issues. Contractor is working to enhance the schedule to make up time but will likely be unable to meet the scheduled completion date. Discussions for additional time and/or schedule adjustments are pending.

The following Design Team and Construction Services Effort is active:

- The new Sewage Pump # 3 and Motor has now been delivered to the NESPS and is in the process of installation. In addition, Sewage Pump and Motor No. 1 is following closely behind and being readied for installation. Factory performance tests have been conducted with each

## July 20, 2022 OMIDDD Board Meeting

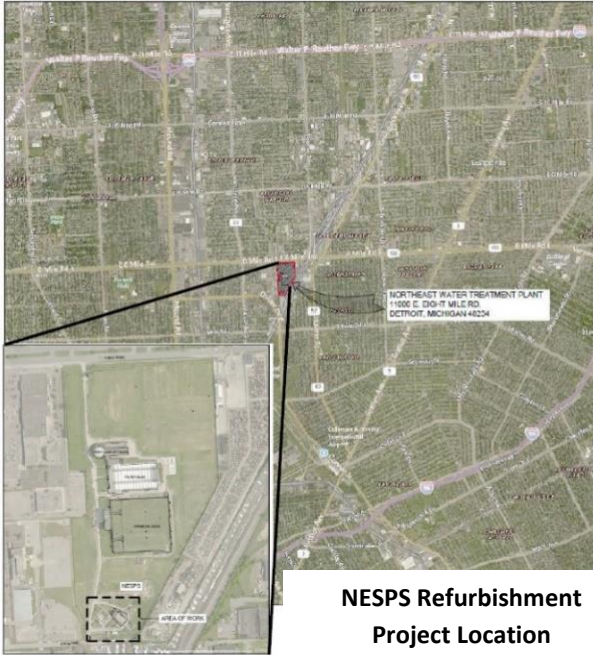
separate component, and the pump and motor assembly will be re-tested when in place at the NESPS. Pump 3 is scheduled for start up “wet” testing in mid-July, and Pump 1 will follow 2 to 3 weeks later.

- Electrical work on the primary cable installation from the transformers to the new metal clad switchgear is complete
- A review of alternative energy saving methods and pump sequence remains ongoing, incorporating GLWA SCC comments.
- Construction Phase services (RFIs, Submittals) are ongoing, and the engineering team is reviewing and responding.
- Discharge piping work is complete on Pumps # 1 and # 3, including pressure testing.
- Chemical injection to seal groundwater infiltration at the existing discharge pipe wall penetrations is substantially complete, with final efforts on hold to observe the initial stages of grouting and determine if further measures may be required for final leak control.
- Small diameter conduit runs are being installed in the existing NESPS building with favorable progress, now approaching substantial completion for this activity.
- Knife Gate 1 is refurbished and has been reinstalled on site and available for service.
- 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	\$44,100,000	
10 Substantial Completion	\$2,500,000 (est.)	\$44,100,000 (est.)	9/22/2023 (late)
11 Final Completion			12/21/2023 (late)



# July 20, 2022 OMIDDD Board Meeting



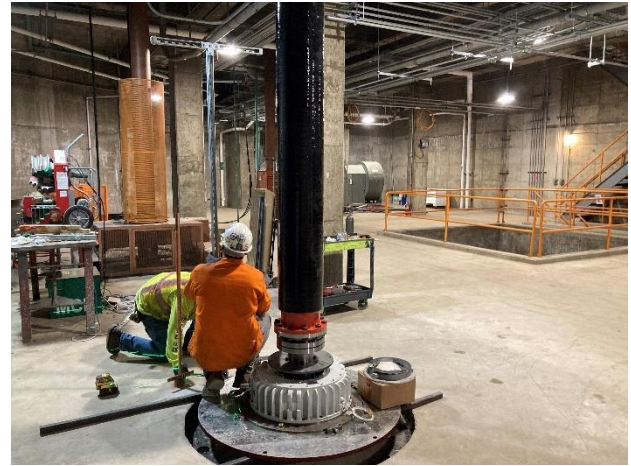
**NESPS Refurbishment  
Project Location**



**Pump 1 Shaft Coupling Installation**



**NESPS Electrical Room**



**Pump Drive Shaft Installation**

# July 20, 2022 OMIDDD Board Meeting

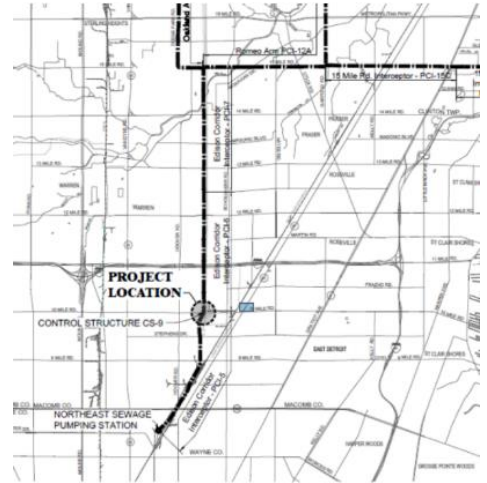
## CS-9 Gate Installation

**Budget Status:** Total construction budget currently established as approximately \$3,314,218.01

**Schedule Status:** Construction complete;  
Repairs pending

The following work is active:

- All major work is complete and the Hydrogate gate is in regular use for flow control management.
- Site restoration is substantially complete and will be fully completed following Hobas Repairs.
- Doetsch Environmental is engaged to provide Hobas Lining repair and platform repair services. Repairs are now being scheduled with insurance carrier approval



CS-9 Project location

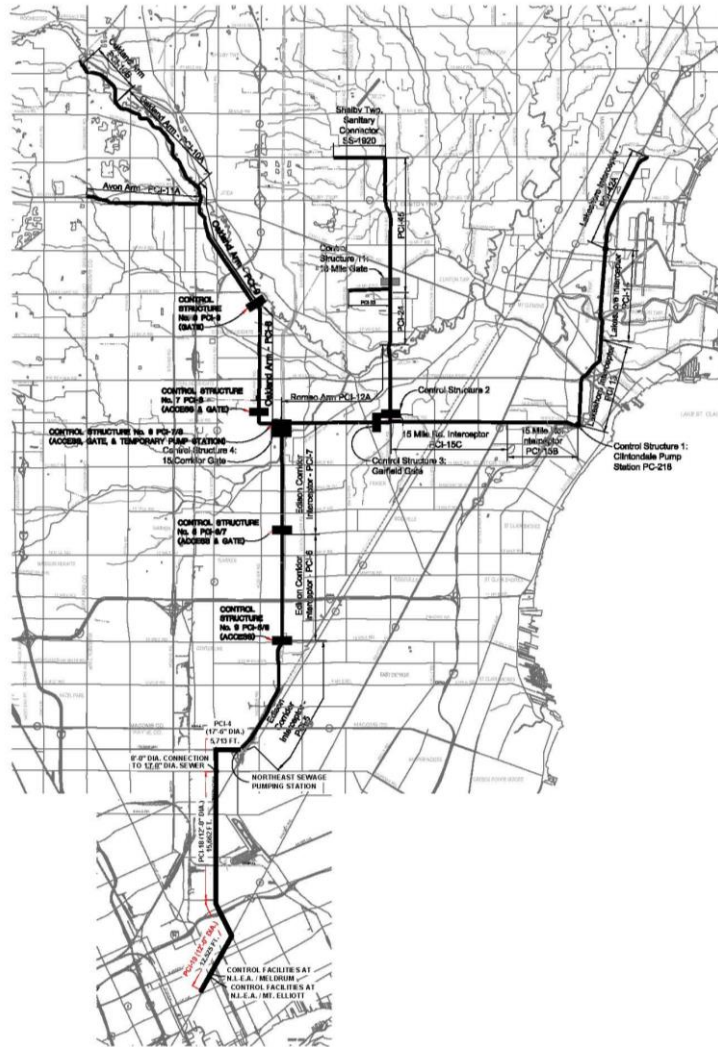
## Summary of OMID Design and Construction Status:

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/N/N	Y/N/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	N	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

\* In process with Coating Issues Resolution and Change Order and Memo of Understanding approvals in review

# July 20, 2022 OMIDDD Board Meeting

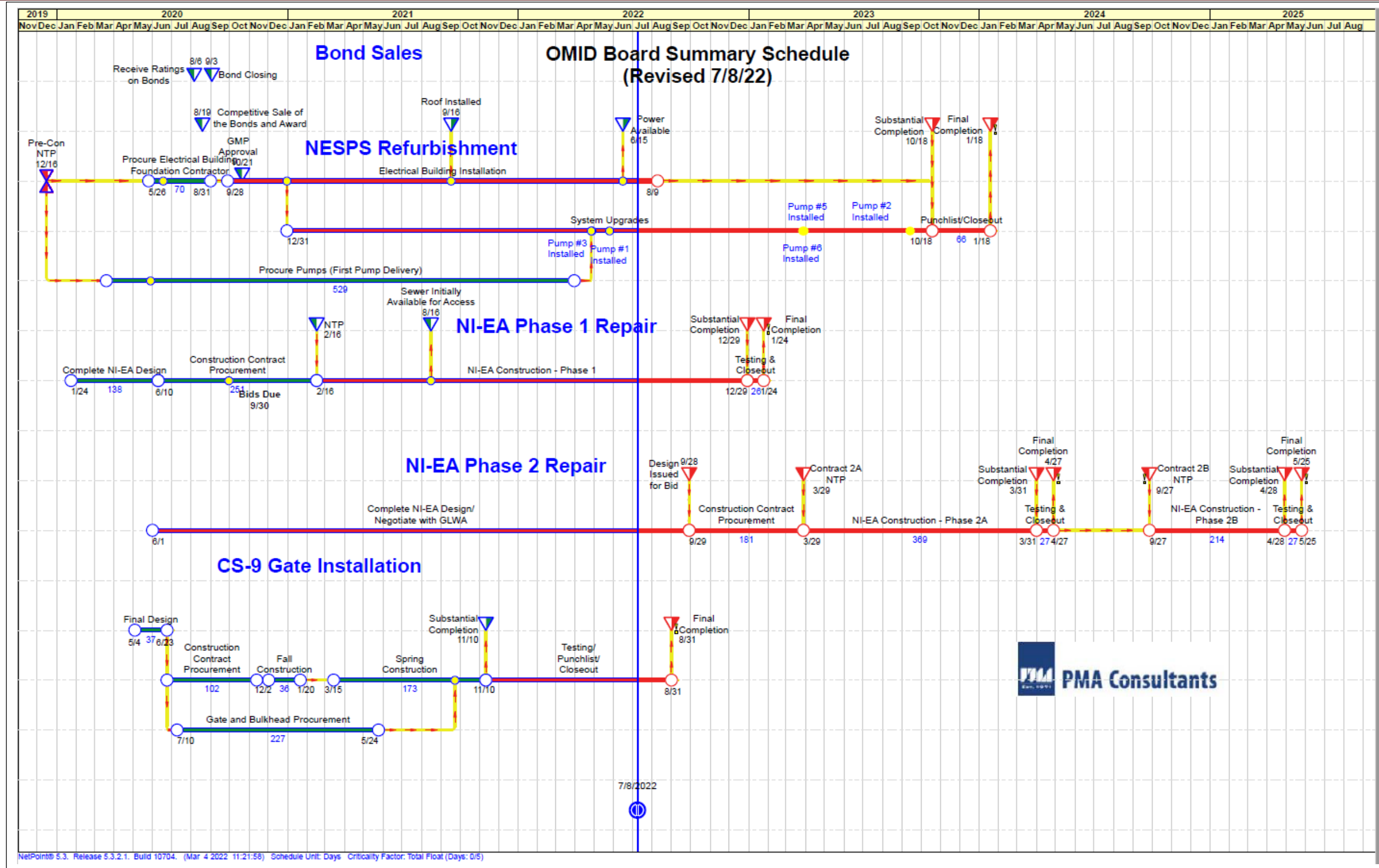
Work Currently in Design/Study/Engineering		
Description	Design Consultant	Status
System-wide Odor/Corrosion Study	Jacobs	Study Complete, data gathering and modifications pending
NESPS & OMID Maintenance & Repairs	Metco	Engineering/Maintenance Ongoing
NIEA-OMIDDD Contract 2 (PCI-18/19)	NTH	Design Complete; pursuing cost sharing w/ GLWA
Emergency Pumping Plan	ASI/FKE	Draft Plan to be modified following ITC bypass pumping modifications



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



# July 20, 2022 OMIDDD Board Meeting





**Agenda Item No. 9**

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

**OCM Project Work In Progress**

**Company** Oakland County  
**Projects and Project Hierarchies** PRJ-13309 NESPS MECH-ELEC CONSTRUCTION  
**Budget Structure** Project Task  
**Budget Name**  
**Period** FY2022 - Jun

Project	Start Date	Original Budget	Actuals MTD	Commitments	Obligations YTD	Actuals YTD	Total Spend YTD	Actuals LTD	Variance
Project Expenses	11/1/2020	54,086,000.00	\$85,863.15	\$0.00	\$0.00	\$32,245,621.82	32,245,621.82	32,245,621.82	21,840,378
1 > Administration		620,000.00	\$0.00	\$0.00	\$0.00	\$44,200.00	44,200.00	44,200.00	575,800
1 > Contingency		4,917,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0	4,917,000
1 > Engineering		446,000.00	\$1,595.55	\$0.00	\$0.00	\$221,688.64	221,688.64	221,688.64	224,311
1 > Engineering Consultants		3,987,000.00	\$76,734.80	\$0.00	\$0.00	\$1,848,981.13	1,848,981.13	1,848,981.13	2,138,019
1 > Facility Acquisition		40,857,000.00	\$0.00	\$0.00	\$0.00	\$29,179,047.32	29,179,047.32	29,179,047.32	11,677,953
1 > Inspection		285,000.00	\$6,542.19	\$0.00	\$0.00	\$434,378.26	434,378.26	434,378.26	-149,378
1 > Legal and Financial		2,417,000.00	\$0.00	\$0.00	\$0.00	\$179,800.00	179,800.00	179,800.00	2,237,200
1 > Right of Way		393,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0	393,000
1 > Standard		130,000.00	\$990.61	\$0.00	\$0.00	\$337,526.47	337,526.47	337,526.47	-207,526
1 > Survey		34,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0	34,000
Project Revenues	11/1/2020	0	\$0.00	\$0.00	\$0.00	\$46,039,857.01	(46,039,857.01)	46,039,857.01	
RC605572 - Special		0	\$0.00	\$0.00	\$0.00	\$4,202,235.00	(4,202,235.00)	4,202,235.00	
RC697551 - Issuance of Bonds		0	\$0.00	\$0.00	\$0.00	\$41,837,622.01	(41,837,622.01)	41,837,622.01	
<b>Revenue Over/ (Under) Expenses</b>								<b>13,794,235.19</b>	

**OCM Project Work In Progress**

**Company** Oakland County  
**Projects and Project Hierarchies** PRJ-13308 OMID NI-EA CONSTRUCTION  
**Budget Structure** Project Task  
**Budget Name**  
**Period** FY2022 - Jun

Project	Start Date	Original Budget	Actuals MTD	Commitments	Obligations	Actuals YTD	Total Spend YTD	Actuals LTD	Variance
Project Expenses	11/1/2020	28,395,600.00	160,517.23	9,693.45	928,101.14	19,192,831.28	20,130,625.87	19,192,831.28	9,202,768.72
1 > Administration		584,000.00	0.00	0.00	0.00	0.00	0.00	0.00	584,000.00
1 > Contingency		2,581,000.00	0.00	0.00	0.00	0.00	0.00	0.00	2,581,000.00
1 > Engineering		478,000.00	435.15	0.00	0.00	136,428.56	136,428.56	136,428.56	341,571.44
1 > Engineering Consultants		4,913,000.00	16,999.58	9,693.45	0.00	3,440,253.58	3,449,947.03	3,440,253.58	1,472,746.42
1 > Facility Acquisition		17,983,600.00	0.00	0.00	0.00	15,197,050.19	15,197,050.19	15,197,050.19	2,786,549.81
1 > Inspection		260,000.00	0.00	0.00	0.00	0.00	0.00	0.00	260,000.00
1 > Legal and Financial		1,259,000.00	0.00	0.00	0.00	155,000.90	155,000.90	155,000.90	1,103,999.10
1 > Right of Way		265,000.00	169.28	0.00	0.00	91,765.02	91,765.02	91,765.02	173,234.98
1 > Standard		40,000.00	142,913.22	0.00	928,101.14	172,333.03	1,100,434.17	172,333.03	(132,333.03)
1 > Survey		32,000.00	0.00	0.00	0.00	0.00	0.00	0.00	32,000.00
Project Revenues	11/1/2020	0.00	0.00	0.00	0.00	24,171,142.65	(24,171,142.65)	24,171,142.65	
RC605572 - Special		0.00	0.00	0.00	0.00	2,206,043.00	(2,206,043.00)	2,206,043.00	
RC697551 - Issuance of Bonds		0.00	0.00	0.00	0.00	21,965,099.65	(21,965,099.65)	21,965,099.65	
<b>Revenue Over/ (Under) Expenses</b>								<b>4,978,311.37</b>	

**OCM Project Work In Progress**

**Company** Oakland County  
**Projects and Project Hierarchies** PRJ-13252 OMID Segment 5

**Budget Structure** Project Task  
**Budget Name**  
**Period** FY2022 - Jun

<b>Project</b>	<b>Start Date</b>	<b>Original Budget</b>	<b>Actuals MTD</b>	<b>Actuals YTD</b>	<b>Actuals LTD</b>	<b>Variance</b>
Project Expenses	8/1/2020	0	0.00	\$749,670.65	\$749,670.65	(\$749,670.65)
1 > Administration		0	\$0.00	\$242,201.57	\$242,201.57	(\$242,201.57)
1 > Legal and Financial		0	\$0.00	\$514,935.00	\$514,935.00	(\$514,935.00)
1 > Standard		0	\$0.00	(\$7,465.92)	(\$7,465.92)	\$7,465.92
Project Revenues	8/1/2020	0	\$0.00	\$1,846,608.41	\$1,846,608.41	
RC605572 - Special Assessments Revenue		0	\$0.00	\$108,835.74	\$108,835.74	
RC655077 - Accrued Interest Adjustments		0	\$0.00	(\$161,449.04)	(\$161,449.04)	
RC655385 - Income from Investments		0	\$0.00	\$814,218.62	\$814,218.62	
RC697219 - Premiums on Bonds Sold		0	\$0.00	\$7,672,724.75	\$7,672,724.75	
RC697551 - Issuance of Bonds		0	\$0.00	(\$6,587,721.66)	(\$6,587,721.66)	
<b>Revenue Over/ (Under) Expenses</b>					<b>\$1,096,937.76</b>	

**OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS**

OMI DD Meeting Date 7/20/2022

		84917	84917	82912	Total
		1-3308	1-3309		
<b>Payable To</b>	<b>Invoice #</b>	<b>Segment 5 NIEA Construction</b>	<b>Segment 5 NESPS Mech / Electric Construction</b>	<b>Operations &amp; Maintenance</b>	
Applied Science, Inc	Invoice # 41 (ASI Inv. #8183) Services 05/29/22 to 06/25/22		82,657.76		\$82,657.76
Clark Hill PLC	Invoice # 1214929 Matter 424741 Services Through 05/31/2022			2,160.00	\$2,160.00
Clark Hill PLC	Invoice # 1214934 Matter 404547 Services Through 05/31/2022	1,269.00			\$1,269.00
Dickinson Wright PLLC	Invoice # 1703938 Matter 012840-00436 Service through 05/31/2022			3,002.00	\$3,002.00
HESCO	Invoice # 2213682 CS7 Hose Leake 06/06/2022			3,378.80	\$3,378.80
Jaobs Consultants, Inc.	Invoice # C6A19900-01 OMIDD Odor & Corrosion Facilities 2/16/22 - 5/27/22			100,964.56	\$100,964.56
Kenedy Industries	Invoice # 631379 - 1 NESPS Field Service 05/24/22			110.00	\$110.00
Kenedy Industries	Invoice # 631612 NESPS Field Service 06/04/22 & 06/11/22			3,098.00	\$3,098.00
Kone	Invoice # 115274162 NE Water Treatment Plant Elevator Repair 12/10/21			486.66	\$486.66
Kone	Invoice # 115276230 NE Water Treatment Plant Elevator Repair 12/13/21			1,009.54	\$1,009.54
Kone	Invoice # 1158321286 NE Water Treatment Plant Elevator Repair 04/05/22			273.52	\$273.52
Konecranes	Invoice # 154645862 Crane repair 35 TonBridge Brake 4/1/2022			4,483.60	\$4,483.60
METCO	Invoice # 1811-42 Through 06/26/22			65,326.33	\$65,326.33
Motor City Electric Technologies	Invoice # 94545 NESP SCADA Cut Over Service Date 06/09/22			225.00	\$225.00
NTH Consultants	Invoice # 629893 Enigneering Design NI-EA PCI-4 Through 06/24/2022	19,356.15			\$19,356.15
NTH Consultants	Invoice # 629894 (D-425) Engineering Svices Through 06/24/2022	102,038.22			\$102,038.22
NTH Consultants	Invoice # 629900 (D-421) Engineering Design NESPS Through 06/24/2022		4,825.21		\$4,825.21
NTH Consultants	Invoice # 6299018 2021 OMIDD System Inspection Through 06/24/2022			4,414.01	\$4,414.01
NTH Consultants	Invoice # 629902 NESPS Close-Out & Maintenance Tasks Through 06/24/2022			883.69	\$883.69
NTH Consultants	Invoice # 629903 Engineering Work D 439 & NESPS Maintenance Through 06/24/2022			2,825.33	\$2,825.33
Rotor Electric Company	Invoice # 12522 Battery Maintenance 05/31/22			2,125.50	\$2,125.50
Rotor Electric Company	Invoice # 12523 P5 & 6 Moter Maintenance 06/01/22			3,185.74	\$3,185.74
Rotor Electric Company	Invoice # 12504 Re-Lamping (Floor L3,L4,L5) 06/02/22			2,403.72	\$2,403.72
Rotor Electric Company	Invoice # 12525 P2 Trip Event Investigatio 06/07/22			548.00	\$548.00
Rotor Electric Company	Invoice # 12526 Submittal Review & Pump Oprtation Issue Meeting 05/05/22			959.00	\$959.00
Rotor Electric Company	Invoice # 12527 P4 VFD Inspection Maintenance and Testing 04/20/22			11,587.05	\$11,587.05
PMA Consultants	Invoice # 03559.01 - 25 Professional Services Through 06/30/22	14,423.88			\$14,423.88
	Total Invoices/Reimbursements for Approval	\$137,087.25	\$87,482.97	\$213,450.05	\$438,020.27
	* Less WRC Charges already paid from OMI Fund	0.00	0.00	0.00	0.00
	Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain Board	\$137,087.25	\$87,482.97	\$213,450.05	\$438,020.27

## **Agenda Item No. 10**

### **Invoices**





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

July 11, 2022

Invoice No: 03559.01 - 25

**84917 - 6010101 - 149015 - 731458- 6096- 1-3308 - ch21 - engcon -  
v#16918  
- exp. 5/29/23**

Project 03559.01 Oakland-Macomb Interceptor Drainage 2020

7/12/2022

**Professional Services from June 1, 2022 to June 30, 2022**

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>	
Zann, John	56.00	94.00	5,264.00	
Totals	56.00		5,264.00	
<b>Total Labor</b>				<b>5,264.00</b>

**Additional Fees**

Overhead	149.10 % of 5,264.00		7,848.62	
Profit	10.00 % of 13,112.62		1,311.26	
<b>Total Additional Fees</b>			<b>9,159.88</b>	<b>9,159.88</b>

**Billing Limits**

	<b>Current</b>	<b>Prior</b>	<b>To-Date</b>
Total Billings	14,423.88	243,660.66	258,084.54
Limit			450,000.00
Remaining			191,915.46

**Total this Invoice \$14,423.88**

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



# 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

July 6, 2022

Project Invoice #41 (ASI Inv. #8183)

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

**li# 41133 v#352**

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

Invoice Period: 5/29/22-6/25/22

Task No.	Task Description	Total This Invoice
1	Transition & Basis of Design	
	<b>Total:</b>	<b>\$ -</b>
		<b>Total This Invoice</b>
2	Design Services for Pump & Electrical Upgrades	
	<b>Total:</b>	<b>\$ -</b>
	Subconsultants:	
	<b>FK Engineering:</b>	<b>\$ -</b>
	<b>NTH Consultants</b>	<b>\$ -</b>
	ASI Markup 5%:	<b>\$ -</b>
	<b>Total Due This Invoice:</b>	<b>\$ -</b>
		<b>Total This Invoice</b>
3	Additional Special Services	
	<b>Total:</b>	<b>\$ -</b>
	Subconsultants:	
	<b>FK Engineering:</b>	<b>\$ -</b>
	ASI Markup 5%:	<b>\$ -</b>
	<b>Total Due This Invoice:</b>	<b>\$ -</b>
		<b>Total This Invoice</b>
5	Construction Services	
	<b>Total:</b>	<b>\$ 19,325.00</b>
	Subconsultants:	
	<b>NTH Consultants</b>	<b>\$ 42,584.53</b>
	<b>Metco Services</b>	<b>\$ 10,825.00</b>
	<b>FK Engineering:</b>	<b>\$ 4,978.50</b>
	ASI Markup 5%:	<b>\$ 2,919.40</b>
	<b>Direct Expenses:</b>	<b>\$ 2,025.33</b>
	<b>Total Due This Invoice:</b>	<b>\$ 82,657.76</b>
<b>Total Due This Invoice:</b>		<b>\$ 82,657.76</b>
Previous Amount Invoiced:		<b>\$ 3,141,179.75</b>
Total Invoiced To-Date		<b>\$ 3,223,837.51</b>
Original Contract Task Total:		<b>\$ 4,198,380.00</b>
Additional Budget:		<b>\$ 284,076.60</b>
Current Contract Task Total:		<b>\$ 4,482,456.60</b>
Amount Remaining:		<b>\$ 1,258,619.09</b>

**84917-149015-730639-1-3309**  
**engcon**

JTB 7/12/2022



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

Invoice: 1214929  
 Date: 06/21/2022  
 Client: 58434  
 Matter: 424741

**82912-6010101-149030-731073-5113 -  
 v#2788 - exp. 5/15/22**

Matter Name: GLWA Model Wastewater Contract

*John Brown*

7/12/2022

---

**LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH MAY 31, 2022**

Total Fees:	\$	2,160.00
<b>Total Due This Invoice:</b>	<b>\$</b>	<b>2,160.00</b>



84917 - 6010101 - 149015 - 731073 - 2603 - 1-3308  
LEGAL- Ch.21 v#4716 - li#24138 - exp. 12/31/23

7/12/2022

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

Invoice: 1214934  
Date: 06/21/2022  
Client: 58434  
Matter: 404547

Matter Name: Northeast Interceptor East Arm Improvements

---

**LEGAL SERVICES RENDERED AND COSTS ADVANCED THROUGH MAY 31, 2022**

Total Fees:	\$	1,269.00
<b>Total Due This Invoice:</b>	<b>\$</b>	<b>1,269.00</b>



INVOICE DATE: JUNE 16, 2022  
 INVOICE NO.: 1703938

OAKLAND COUNTY WATER RESOURCES COMMISSIONER  
 ATTORNEY & INSURANCE ADMINISTRATOR  
 ONE PUBLIC WORKS DRIVE, #95  
 WATERFORD, MI 48328

ATTN: STEVE KORTH

**82912 - 6010101 - 149030 - 731073 - 5089 - Ch. 21**  
**- v# 4978 - li# 39111**

CLIENT/MATTER NO.: 012840-00436

7/12/2022

RE: PREPARE BOARD MEMORANDUM RE LOCKOUT-TAGOUT (LOTO) ISSUE

*PRIVILEGED AND CONFIDENTIAL*

FOR PROFESSIONAL SERVICES THROUGH MAY 31, 2022

USD

TOTAL FEES CURRENT INVOICE .....	\$	<u>3,002.00</u>
<b>TOTAL CURRENT INVOICE .....</b>	<b>\$</b>	<b><u>3,002.00</u></b>

Remittance Instructions		
***Terms: Due and Payable Upon Receipt***		
Mail To:	ACH Instructions:	Wire Instructions:
Dickinson Wright PLLC 2600 W. Big Beaver Suite 300 Troy, MI 48084	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 072 000 326 Account# 38852  <b>(Please Reference Invoice Numbers)</b>	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 021 000 021 Swift Code: CHASUS33 (International) Account# 38852  <b>(Please Reference Invoice Numbers)</b>

# HESCO

Knowledgeable • Professional • Attentive • Likeable

29770 Hudson Drive Novi, MI 48377  
Phone: (586) 978-7200  
hesco-mi.com

Invoice No. 2213682

Date: 06/06/2022

**82912 - 149130 - 730660 - 5819 - Ch. 21 -  
v#3091 - exp. 6/30/25 - li#42703**

**Billed To:** OMID Drainage District  
1 Public Works Drive  
Waterford MI 48328

*JL B...* 7/12/2022

**Contract ID:**  
**HESCO Project:** 2019807S OMID Flow Control Structures

**Contact:** Terry Moore      **P.O.#** Sewer Fund #149130      **Salesperson:** Kevin Livingston      **Due Date:** 07/06/2022

Description	Unit	Qty	Rate	Amount
<b>5/24/22 CS-7 Hose Leak</b>				
WO 00644 – CS-7				
Senior Tech	Hours	7.50	185.00	1,387.50
John Sullens				
Tech 1	Hours	6.25	120.00	750.00
Jason Dietz				
Tech 1	Hours	6.25	120.00	750.00
Ty Brady				
Oil Pressure Gauge	Each	1.00		
OMID Owned				
30' Hydraulic Line	Each	1.00	491.30	491.30
\$427.22 + 15% = \$491.30				

**Notes:**

WO 00644 CS-7 hose leak

*TM 6-17-22*

Non-Taxable Amount:	3,378.80
Taxable Amount:	0.00
Sales Tax:	0.00
Total Invoice	3,378.80
Payments/Credits:	0.00
<b>Amount Due</b>	<b>3,378.80</b>

Invoice



Jacobs Consultants, Inc.

Invoice No.: C6A19900-01  
 Invoice Date: 6/16/2022  
 Jacobs Project No.: C6A19900  
 Services From: 2/16/2022  
 Services Through: 5/27/2022

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

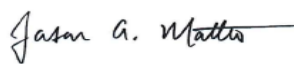
Attn: Mr. Joel Brown, P.E.  
 Project Description: OMID Odor and Corrosion Control Facilities

JTB 7/12/2022

**82912 - 149662- 730639 - 5216 - 1-3275 Ch 21 - std v#20192 li#439942**

Task Number	Task Description	Budget Total	Remaining Budget	Previously Invoiced	Current Invoice	Project to Date
Task 1	Additional Investigation/Modeling	\$ 148,365	\$ 68,338.32	\$ -	\$ 80,026.58	\$ 80,026.58
Task 2	Basis of Design	\$ 122,605	\$ 101,667.04	\$ -	\$ 20,937.98	\$ 20,937.98
Task 3	ST-S-3 Vapor-Phase Treatment System - Subtask 3.1 - Design	\$ 235,745	\$ 235,745.04	\$ -	\$ -	\$ -
	ST-S-3 Vapor-Phase Treatment System - Subtask 3.2 - Bidding	\$ 17,155	\$ 17,154.74	\$ -	\$ -	\$ -
Task 4	CS-6 Pump Station Vapor-Phase System Subtask 4.1 - Design	\$ 191,218	\$ 191,218.29	\$ -	\$ -	\$ -
	CS-6 Pump Station - Vapor-Phase System Subtask 4.2 - Bidding	\$ 15,613	\$ 15,612.91	\$ -	\$ -	\$ -
Task 5	CS-8 and ST-S-1 Local Odor Control - Subtask 5.1 - Design	\$ 80,200	\$ 80,199.91	\$ -	\$ -	\$ -
	CS-8 and ST-S-1 Local Odor Control - Subtask 5.2 - Bidding	\$ 12,829	\$ 12,829.09	\$ -	\$ -	\$ -
<b>Total</b>		<b>\$ 823,730</b>	<b>\$ 722,765.33</b>	<b>\$ -</b>	<b>\$ 100,964.56</b>	<b>\$ 100,964.56</b>

Previously Invoiced \$ -  
 Total This Invoice: \$ 100,964.56  
 Total Invoiced To Date: \$ 100,964.56  
 Budget Amount: \$ 823,729.90  
 Remaining Amount USD: \$ 722,765.33

Signed   
 \_\_\_\_\_  
 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
5/27/2022	631379-1	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 8598 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

*JL B*

7/12/2022

CUSTOMER REF/PO #	JOB #	JOB TITLE	SLP	SHIPPING TYPE	TERMS
	0105960	NORTHEAST PUMP STATION, FIELD SERVICE, SANITARY	KES/PM	FIELD SERVICE	NET 60

QUANTITY		PART NO.	DESCRIPTION	UNIT PRICE	EXTENDED
B/O	Ship				

0.00	1.00	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN(S) ONSITE ON 5/24/2022. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$110.00	\$110.00
------	------	-------------------	--	----------	----------

*TM 6-17-22*

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 &amp; Conditions (Rev'd 4/2019) 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 &amp; Conditions and Customer Warranty posted on Kennedy's website</small>  <b>*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</b>	SUBTOTAL:	\$110.00
	TAX:	\$0.00
	TOTAL:	\$110.00

P.O. Box 930079 Wixom, MI 48393 - 4925 Holtz Drive Wixom, MI 48393 - Phone: 248-684-1200 - Fax: 248-684-6011

**www.KennedyInd.com**





**KENNEDY**  
INDUSTRIES

INNOVATE  
SOLVE  
MONITOR  
REPAIR

INVOICE		
DATE	NUMBER	PAGE
6/15/2022	631612	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

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

T  
O

*Jef Ben*

7/12/2022

ATTENTION:

TERRY MOORE

313-8297207

TMOORE@METCOSERVICES.COM

CUSTOMER REF/PO #	JOB #	JOB TITLE	SLP	SHIPPING TYPE	TERMS
00645	0116075	NEPS, #4, TROUBLESHOOTING, FIELD SERVICE, SANITARY	KES/SPM	FIELD SERVICE	NET 60

QUANTITY		PART NO.	DESCRIPTION	UNIT PRICE	EXTENDED
B/O	Ship				

0.00	4.00	GRE550NEWTP	GLWA, NORTHEAST WTP KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN(S) ONSITE ON 6/4/2022 AT STANDARD RATES. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$110.00	\$440.00
0.00	18.00	GRE550NEWTP	GLWA, NORTHEAST WTP KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN(S) ONSITE ON 6/11/2022 AT OVERTIME RATES. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$144.00	\$2,592.00
0.00	1.00	TRAVEL	SERVICE TRUCK	\$66.00	\$66.00

*TM 6-17-22*

**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 &amp; Conditions (Rev'd 4/2019) and Customer Warranty available at <a href="http://www.kennedyind.com">www.kennedyind.com</a> which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms &amp; Conditions and Customer Warranty posted on Kennedy's website</small>  <b>*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</b>	SUBTOTAL:	\$3,098.00
	TAX:	\$0.00
	TOTAL:	\$3,098.00

P.O. Box 930079 Wixom, MI 48393 - 4925 Holtz Drive Wixom, MI 48393 - Phone: 248-684-1200 - Fax: 248-684-6011

**www.KennedyInd.com**



One KONE Court  
Moline, IL 61265  
*Please do not send payments to this address*

## Repair Invoice

Invoice Date: 01/21/2022  
Invoice Number: 1158274162  
Contract Number: 41954943  
Purchase Order: None

Customer Number: 13827636

Customer Billing Address:

OAKLAND MACOMB INTERCEPTOR DRAIN  
DRAINAGE DISTRICT  
1 PUBLIC WORKS DR BLDG 95 W  
WATERFORD MI 48328

OAKLAND MACOMB INTERCEPTOR DRAIN  
DRAINAGE DISTRICT  
1 PUBLIC WORKS DR BLDG 95 W  
WATERFORD MI 48328

Your invoicing email: brownjt@oakgov.com

**82912 - 149090 - 730660 - 6076 - Ch. 21 V#8431 exp. 8/1/22**

7/12/2022

Terry Moore called on 12/8/2021 at 12:05 PM reporting an operating problem with the PASSENGER ELEVATOR. When we arrived on 12/10/2021 at 12:59 PM the unit was operating normally. Intermittent brake issue. We adjusted then checked unit to verify proper and safe operation. Actions related to this call are outside the scope of KONE Service Agreement, and are thus 100% billable.

Equipment: PASSENGER ELEVATOR  
Equipment No: 44490178  
Equipment Address: NORTHEAST WATER TREATMENT PLANT  
11000 EAST 8 MILE RD  
DETROIT MI 48205

Service Order: 9AUS14718314  
Completion Date: 12/10/2021

	Net Value	Total
LABOR	\$ 468.00	\$ 468.00
EXPENSE	\$ 18.66	\$ 18.66
<b>Total</b>		<b>\$ 486.66</b>

**Thank you for your business.**

<b>TO VIEW AND PAY ONLINE GO TO</b>	<a href="https://kone.billtrust.com">https://kone.billtrust.com</a>
<b>USE THIS ENROLLMENT TOKEN</b>	VDF MGW GLX
<b>KONE invoice Account Number</b>	13827636

Payment Terms: Net 30

Please Pay Before: 02/20/2022

Late Payment Interest: 1.5%

**Payment Options - please reference this invoice number**

**[Make Payments Online](#)**

**ACH**

Bank Name: CitiBank  
ABA Routing: 021000089  
Account Number: 30915201  
Account Name: KONE Inc.

**Mail Check**

KONE  
P.O. BOX 734874  
CHICAGO, IL 60673-4874

KONE DETROIT U190  
11864 BELDEN CT  
LIVONIA, MI 48150-1459

Telephone: +1 734-513-6944  
[www.KONE.us/billing](http://www.KONE.us/billing)

KONE Inc. TAX ID 36-2357423

*Please do not send payments to this address*



One KONE Court  
Moline, IL 61265  
Please do not send payments to this address

# Repair Invoice

Invoice Date: 01/26/2022  
Invoice Number: 1158276230  
Contract Number: 41954943  
Purchase Order: None

Customer Number: 13827636

Customer Billing Address:

OAKLAND MACOMB INTERCEPTOR DRAIN  
DRAINAGE DISTRICT  
1 PUBLIC WORKS DR BLDG 95 W  
WATERFORD MI 48328

OAKLAND MACOMB INTERCEPTOR DRAIN  
DRAINAGE DISTRICT  
1 PUBLIC WORKS DR BLDG 95 W  
WATERFORD MI 48328

Your invoicing email: brownjt@oakgov.com

**82912 - 149090 - 730660 - 6076 - Ch. 21 V#8431**

**exp. 8/1/22**

**7/12/2022**

Terry Moore called on 12/13/2021 at 11:57 AM reporting PASSENGER ELEVATOR was shut down. When we arrived at 12:41 PM the unit was at floor with the doors closed. We adjusted the control system module. Upon leaving at 5:10 PM we left the elevator in service.

Equipment: PASSENGER ELEVATOR  
Equipment No: 44490178  
Equipment Address: NORTHEAST WATER TREATMENT PLANT  
11000 EAST 8 MILE RD  
DETROIT MI 48205

Service Order: 9AUS14725637

Completion Date: 12/13/2021

	Net Value	Total
LABOR	\$ 936.00	\$ 936.00
EXPENSE	\$ 73.54	\$ 73.54
<b>Total</b>		<b>\$ 1,009.54</b>

**Thank you for your business.**

<b>TO VIEW AND PAY ONLINE GO TO</b>	<a href="https://kone.billtrust.com">https://kone.billtrust.com</a>
<b>USE THIS ENROLLMENT TOKEN</b>	VDF MGW GLX
<b>KONE eInvoice Account Number</b>	13827636

Payment Terms: Net 30

Please Pay Before: 02/25/2022

Late Payment Interest: 1.5%

**Payment Options - please reference this invoice number**

**Make Payments Online**

**ACH**

Bank Name: CitiBank  
ABA Routing: 021000089  
Account Number: 30915201  
Account Name: KONE Inc.

**Mail Check**

KONE  
P.O. BOX 734874  
CHICAGO, IL 60673-4874

KONE DETROIT U190  
11864 BELDEN CT  
LIVONIA, MI 48150-1459

Telephone: +1 734-513-6944  
[www.KONE.us/billing](http://www.KONE.us/billing)

KONE Inc. TAX ID 36-2357423

Please do not send payments to this address



One KONE Court  
Moline, IL 61265  
Please do not send payments to this address

# Repair Invoice

Invoice Date: 04/18/2022  
Invoice Number: 1158321286  
Contract Number: 41954943  
Purchase Order: None

Customer Number: 13827636

Customer Billing Address:

OAKLAND MACOMB INTERCEPTOR DRAIN  
DRAINAGE DISTRICT  
1 PUBLIC WORKS DR BLDG 95 W  
WATERFORD MI 48328

OAKLAND MACOMB INTERCEPTOR DRAIN  
DRAINAGE DISTRICT  
1 PUBLIC WORKS DR BLDG 95 W  
WATERFORD MI 48328

Your invoicing email: brownjt@oakgov.com

**82912 - 149090 - 730660 - 6076 - Ch. 21 V#8431 exp. 8/1/22**

7/12/2022

Darrin Green called on 4/4/2022 at 12:28 PM reporting an operating problem with the PASSENGER ELEVATOR. When we arrived on 4/5/2022 at 7:53 AM the unit was operating normally. We checked unit to verify proper and safe operation. Actions related to this call are outside the scope of KONE Service Agreement, and are thus 100% billable.

Equipment: PASSENGER ELEVATOR  
Equipment No: 44490178  
Equipment Address: NORTHEAST WATER TREATMENT PLANT  
11001 EAST STATE FAIR AVE  
DETROIT MI 48234

Service Order: 9AUS14901628  
Completion Date: 04/05/2022

	Net Value	Total
LABOR	\$ 263.80	\$ 263.80
EXPENSE	\$ 9.72	\$ 9.72
<b>Total</b>		<b>\$ 273.52</b>

**Thank you for your business.**

<b>TO VIEW AND PAY ONLINE GO TO</b>	<a href="https://kone.billtrust.com">https://kone.billtrust.com</a>
<b>USE THIS ENROLLMENT TOKEN</b>	VDF MGW GLX
<b>KONE eInvoice Account Number</b>	13827636

Payment Terms: Net 30

Please Pay Before: 05/18/2022

Late Payment Interest: 1.5%

**Payment Options - please reference this invoice number**

**Make Payments Online**

**ACH**

Bank Name: CitiBank  
ABA Routing: 021000089  
Account Number: 30915201  
Account Name: KONE Inc.

**Mail Check**

KONE  
P.O. BOX 734874  
CHICAGO, IL 60673-4874


KONE DETROIT U190  
11864 BELDEN CT  
LIVONIA, MI 48150-1459

Telephone: +1 734-513-6944  
[www.KONE.us/billing](http://www.KONE.us/billing)

KONE Inc. TAX ID 36-2357423

Please do not send payments to this address

# Invoice

<b>Delivery Address</b> OMIDDD / Great Lakes Water Authority 111001 E State Fair St Detroit MI 48234	<b>Information</b> Document No. 154645862 Document Date 04/06/2022 Customer PO Contract #5820 Customer Contact Joel Brown Customer No. 1816160																														
<b>Invoice Address</b> Oakland Macomb Interceptor Drain Drainage District Acct: 730660 1 Public Works Drive Fund: 82912 Program: 149090 Waterford MI 48328-1907	<b>Terms of Payment / Delivery</b> Terms of Delivery FCA PLANT OF ORIGIN Terms of Payment 15 days net Due Date 04/21/2022																														
<b>Invoice Details</b> Provided labor, material, and equipment to replace bridge brake on the 25 ton Double Girder crane.  Thank you for your business!																															
<table border="1"><thead><tr><th>Item</th><th>Material Description</th><th>Quantity</th><th>Unit price USD</th><th>Value USD</th></tr></thead><tbody><tr><td colspan="5">Service Request Num &amp; Delivery Date: 1-94201557449 / 0157450879 / 04/01/2022</td></tr><tr><td>10</td><td>Crane Repair Provided labor, material, and equipment to replace bridge brake on the 25 ton Double Girder crane. 82912-6010101-149090-730660-5820-ch 21 v#22875 - exp. 6/28/22</td><td>1 EA</td><td>4,483.60 / EA</td><td>4,483.60</td></tr><tr><td></td><td>Invoice Value</td><td></td><td></td><td>4,483.60</td></tr><tr><td></td><td>Sales Tax</td><td></td><td></td><td>0.00</td></tr><tr><td></td><td>Invoice Total</td><td></td><td></td><td>4,483.60</td></tr></tbody></table>		Item	Material Description	Quantity	Unit price USD	Value USD	Service Request Num & Delivery Date: 1-94201557449 / 0157450879 / 04/01/2022					10	Crane Repair Provided labor, material, and equipment to replace bridge brake on the 25 ton Double Girder crane. 82912-6010101-149090-730660-5820-ch 21 v#22875 - exp. 6/28/22	1 EA	4,483.60 / EA	4,483.60		Invoice Value			4,483.60		Sales Tax			0.00		Invoice Total			4,483.60
Item	Material Description	Quantity	Unit price USD	Value USD																											
Service Request Num & Delivery Date: 1-94201557449 / 0157450879 / 04/01/2022																															
10	Crane Repair Provided labor, material, and equipment to replace bridge brake on the 25 ton Double Girder crane. 82912-6010101-149090-730660-5820-ch 21 v#22875 - exp. 6/28/22	1 EA	4,483.60 / EA	4,483.60																											
	Invoice Value			4,483.60																											
	Sales Tax			0.00																											
	Invoice Total			4,483.60																											
 7/12/2022																															
<b>82912 - 6010101 - 149090 - 730660 - 5820 - ch 21 v#22875 - exp. 6/28/23</b>																															

DET-Detroit, MI  
43050 W. 10 Mile Road  
NOVI MI 48375-3206  
USA

Phone No. 248-380-2626  
Fax No. 248-380-8595

Contact: Denise Collins  
Email: denise.collins@konecranes.com



16142 Collection Center Drive  
 Chicago, IL 60693-0002  
 (877) 759-4365

Oakland-Macomb Interceptor Drain **Drainage District**  
 ATTN: Sid Lockhart  
 Building 95 West, One Public Works Dr  
 Waterford, MI 48328

**84917 - 149015 - 730940 - 4724 - 1-3308 - Ch.21 - v# 683 -  
 Exp. 6/1/26 STD**

**JTB 7/12/2022**

Invoice # 4901	Page 1 of 1
Account Number	Date
OAKLINT-01	6/26/2022
BALANCE DUE ON	
7/31/2022	
AMOUNT PAID	Amount Due
	\$125,000.00

Payment Methods:

ACH/Wire Information

Bank of America  
 Acct Name: Meadowbrook Inc.  
 Acct Number: 5401978514  
 ACH: Acct ABA #: 071000039  
 Wire: Acct ABA #: 026009593

Mail and Make Checks Payable to:

Meadowbrook Insurance Agency  
 16142 Collection Center Drive  
 Chicago, IL 60693-0002

<b>Administrative</b> Service Fee	Policy Number	OCIPADMINFEE	Effective: <b>7/1/2022</b> to 7/1/2023
-----------------------------------	---------------	--------------	--

Item #	Trans Eff Date	Due Date	Trans	Description	Amount
218176	6/26/2020	7/31/2022	NEWB	2022 to 2023 Administrative Service Fee Annual Installment	\$125,000.00

Total Invoice Balance: \$125,000.00

Payment due upon receipt.



12835 Stephens Road · Warren · Michigan · 48089 · (586) 920-2620 · Fax (586) 510-4433

INVOICE NO. 1811-42

DATE: July 1, 2022

METCO PROJECT NO. 1811

INVOICE PERIOD: 5/30 thru 6/26/2022

Contract ID 00000000000000000000517

Vendor ID 000020486

TO: OMIDD

Water Resources Commissioner  
One Public Works Drive  
Waterford, MI 48328

Attn: Mr. Sid Lockhart, PE  
Deputy Chief Engineer/Special Projects Manager

TITLE: OMID & NESPS Operation and Maintenance

**Operational Plan**

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

JTB 7/12/2022

Name	Title	Hrs.	Rate/Hr.	Amount
Raj Vijayendran, PE	Principal Engineer	0.0	\$ 215.00	\$ -
Terry Moore	Operations Manager	34.0	\$ 145.00	\$ 4,930.00
Terry Moore	Operations Manager (Overtim	0.0	\$ 195.00	\$ -
Darrin Green	Staff Engineer	34.0	\$ 90.00	\$ 3,060.00
Darrin Green	Staff Engineer-(Overtime)	23.0	\$ 135.00	\$ 3,105.00
Anthony Vozza	Staff Engineer	46.0	\$ 90.00	\$ 4,140.00
Anthony Vozza	Staff Engineer-(Overtime)	2.0	\$ 135.00	\$ 270.00
Rosana Santos	Administrative Assoc.	0.0	\$ 73.79	\$ -
<b>Subtotal OMID Operatons:</b>				<b>\$ 15,505.00</b>

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

JTB 7/12/2022

Name	Title	Hrs.	Rate/Hr.	Amount
Raj Vijayendran, PE	Principal Engineer	8.0	\$ 215.00	\$ 1,720.00
Terry Moore	Operations Manager	34.0	\$ 145.00	\$ 4,930.00
Terry Moore	Operations Manager (Overtim	11.0	\$ 195.00	\$ 2,145.00
Darrin Green	Staff Engineer	34.0	\$ 90.00	\$ 3,060.00
Darrin Green	Staff Engineer-(Overtime)	4.0	\$ 135.00	\$ 540.00
Anthony Vozza	Staff Engineer	15.0	\$ 90.00	\$ 1,350.00
Anthony Vozza	Staff Engineer-(Overtime)	0.0	\$ 135.00	\$ -
Rosana Santos	Administrative Assoc.	4.0	\$ 73.79	\$ 295.16
<b>Subtotal NEPS Operations</b>				<b>\$ 14,040.16</b>

**Subtotal Operations \$ 29,545.16**

**Maintenance & Asset Management**

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

JTB 7/12/2022

Name	Title	Hrs.	Rate/Hr.	Amount
Terry Moore	Operations Manager	34.0	\$ 145.00	\$ 4,930.00
Terry Moore	Operations Manager (Overtim	0.0	\$ 195.00	\$ -
Anthony Vozza	Staff Engineer	0.0	\$ 90.00	\$ -
Darrin Green	Staff Engineer	2.0	\$ 90.00	\$ 180.00
<b>Subtotal OMID Maintenance:</b>				<b>\$ 5,110.00</b>

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

JTB 7/12/2022

Name	Title	Hrs.	Rate/Hr.	Amount
Raj Vijayendran, PE	Principal Engineer	8.0	\$ 215.00	\$ 1,720.00
Terry Moore	Operations Manager	34.0	\$ 145.00	\$ 4,930.00
Terry Moore	Operations Manager (Overtim	4.0	\$ 195.00	\$ 780.00
Daniel Martel	Sr. Project Coordinator	0.0	\$ 145.00	\$ -
Sean Grant	Sr. Project Engineer	0.0	\$ 145.00	\$ -



Travis Ford	Sr. Project Engineer	0.0	\$	145.00	\$	-
Shailesh Patel	Sr. Project Engineer	0.0	\$	145.00	\$	-
Darrin Green	Staff Engineer	38.0	\$	90.00	\$	3,420.00
Darrin Green	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
Anthony Vozza	Staff Engineer	69.0	\$	90.00	\$	6,210.00
Anthony Vozza	Staff Engineer-(Overtime)	0.0	\$	135.00	\$	-
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
<b>Subtotal:</b>					<b>\$</b>	<b>17,060.00</b>
<b>Maintenance Services (see attached invoices):</b>					<b>\$</b>	<b>1,901.17</b>
<b>Subtotal NEPS Maintenance:</b>					<b>\$</b>	<b>18,961.17</b>
<b>Subtotal Maintenance:</b>					<b>\$</b>	<b>24,071.17</b>

**NEPS Maintenance – Fund 82912, Program 149090, Account 730646 (Under NEXGEN ALLOWANCE) JTB 7/12/2022**

<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 (Overtim	0.0	\$	195.00	\$	-
Sean Grant	Sr. Project Engineer	10.0	\$	145.00	\$	1,450.00
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	114.0	\$	90.00	\$	10,260.00
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-
<b>Subtotal Maintenance:</b>					<b>\$</b>	<b>11,710.00</b>

**Task 12.0 - As-Needed Services**

<b>Additional General/Excess Liability Insurance Fee:</b>	<b>\$</b>	<b>-</b>
<b>Subtotal 12.0:</b>	<b>\$</b>	<b>-</b>

**TOTAL AMOUNT DUE THIS INVOICE: \$ 65,326.33**





**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
922567	0	001	6/9/2022	6/29/2022	94545

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$225.00	-	\$225.00	\$225.00	-	-
<b>Totals:</b>		<b>\$225.00</b>		<b>\$225.00</b>	<b>\$225.00</b>		
Less Retained:				-			
<b>Invoice Total:</b>				<b>\$225.00</b>			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE  
 SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT  
 WORK ORDER # 00654  
 WORK COMPLETED 6/8-9/2022

*TM-7-1-22*

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

*John Ben*

7/12/2022

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."



**84917 - 6010101 - 149015 - 730639 - 2603 - 1-3308 - Ch.21 v#4716 - li#24138 -  
exp. 12/31/23**

7/12/2022

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

Invoice # : 629893  
Project : 61-190078  
Invoice Group : NI-EA  
Invoice Date : 7/6/2022

Attention: Sid Lockhart

For Professional Services Rendered from

5/21/2022 - 6/24/2022

Engineering Design Services for Rehabilitation of NI-EA Sections PCI-4

Task 01	Project Management	\$276,159.00
Task 02	Condition Assessment	\$241,609.00
Task 03	Subsurface Utility Engineering	\$65,579.00
Task 04	Basemap Survey	\$89,327.00
Task 05	Geotechnical Investigation	\$134,797.00
Task 05A	7-Mile Utility Exploration/Design	\$0.00
Task 05B	Additional Geotech for PCI-4 Shaft	\$0.00
Task 06	Environmental Study	\$60,642.00
Task 07	Basis of Design	\$379,785.00
Task 08	Rehabilitation Design	\$282,099.00
Task 09	Contract Drawings	\$235,070.00
Task 10	Contract Specifications	\$188,178.00
Task 11	Construction Costs	\$27,761.00
Task 12	Permits & Coordination	\$25,655.00
Task 13	Bidding Assistance	\$198,402.00
Task 14	Gate Automation	\$68,770.00
Task 15	Odor & Air Flow Study	\$84,926.00

Preliminary Budget Amount \$2,358,759.00  
Percent Complete: 93.24%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 779.15	\$ 311,010.60
Overhead %	188.00 1,464.80	584,699.95
Total Regular Labor Expense	2,243.95	895,710.55
<b>Total Direct Labor</b>	<b>2,243.95</b>	<b>895,710.55</b>
<b>Profit / Fixed Fee %</b>	<b>12.00 269.27</b>	<b>107,485.25</b>
Direct Expenses Charge	0.00	27,671.41
Expense Multiplier %	5.00 0.00	1,383.61
Direct Subcontractor Charge	15,889.56	1,101,049.75
Subcontractor/Subconsultant Multiplier %	6.00 953.37	66,063.14
<b>Total Other Direct Charges Reimbursables</b>	<b>16,842.93</b>	<b>1,196,167.91</b>
<b>Total Costs:</b>	<b>19,356.15</b>	<b>2,199,363.71</b>
<b>Total Due This Invoice</b>	<b>\$ 19,356.15</b>	<b>\$ 2,199,363.71</b>



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

**JTB 7/12/2022**

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

Invoice # : 629894  
Project : 61-200186  
Invoice Group : \*\*  
Invoice Date : 7/6/2022

Attentior Sid Lockhart

For Professional Services Rendered from **5/21/2022 - 6/24/2022**

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

Task 01	NI-EA OMID Contract No. 1 CCA	<b>\$2,252,836.92</b>
Task 02	OMID CS-9 Gate CCA	<b>\$217,468.00</b>
	Preliminary Budget Amount	<b>\$2,470,304.92</b>
	Percent Complete:	61.10%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 28,265.27	\$ 293,910.91
Overhead %	188.00 53,138.71	552,552.52
Total Regular Labor Expense	81,403.98	846,463.43
<b>Total Direct Labor</b>	<b>81,403.98</b>	<b>846,463.43</b>
<b>Profit / Fixed Fee %</b>	<b>12.00 9,768.48</b>	<b>101,575.63</b>
Direct Expenses Charge	3,079.28	15,265.86
Expense Multiplier %	5.00 153.96	763.29
Direct Subcontractor Charge	7,200.50	514,349.71
Subcontractor/Subconsultant Multiplier %	6.00 432.02	30,861.03
Direct Unit Rate Charge	0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>	<b>10,865.76</b>	<b>561,239.89</b>
<b>Total Costs:</b>	<b>102,038.22</b>	<b>1,509,278.95</b>
<b>Total Due This Invoice</b>	<b>\$ 102,038.22</b>	<b>\$ 1,509,278.95</b>



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

*Jed Ben*

7/12/2022

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

Invoice # : 629900  
Project : 61-200280  
Invoice Group : CMT  
Invoice Date : 7/6/2022

Attention Sid Lockhart

For Professional Services Rendered from 5/21/2022 - 6/24/2022

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

Task 01	CMT Services	\$130,138.00
Task 02	Tnemec Coating Observation	\$0.00
	<b>Preliminary Budget Amount</b>	<b>\$130,138.00</b>
	<b>Percent Complete:</b>	84.29%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 1,343.69	\$ 29,050.56
Overhead %	188.00 2,526.14	54,615.08
Total Regular Labor Expense	3,869.83	83,665.64
<b>Total Direct Labor</b>	<b>3,869.83</b>	<b>83,665.64</b>
<b>Profit / Fixed Fee %</b>	<b>12.00 464.38</b>	<b>10,039.88</b>
Direct Expenses Charge	467.62	15,218.87
Expense Multiplier %	5.00 23.38	760.95
Direct Subcontractor Charge	0.00	10.00
Subcontractor/Subconsultant Multiplier %	6.00 0.00	0.60
Direct Unit Rate Charge	0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>	<b>491.00</b>	<b>15,990.42</b>
<b>Total Costs:</b>	<b>4,825.21</b>	<b>109,695.94</b>
<b>Total Due This Invoice</b>	<b>\$ 4,825.21</b>	<b>\$ 109,695.94</b>



**NTH Consultants, Ltd.**  
Infrastructure Engineering  
and Environmental Services

**82912 - 6010101 - 149662 - 731458- 2603 - Ch. 21 - v#238 -  
li#24138 - exp. 12/31/23**

*Jed Brun*

7/12/2022

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

Invoice # : 629901  
Project : 61210124  
Invoice Group : \*\*  
Invoice Date : 7/6/2022

Attention Sid Lockhart

For Professional Services Rendered from 5/21/2022 - 6/24/2022

Consulting Services Regarding 2021 OMID System Inspection

Task 01 Inspection and Reporting \$526,974.00  
Preliminary Budget Amount \$526,974.00  
Percent Complete: 50.03%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 624.51	\$ 16,320.99
Overhead %	188.00 1,174.08	30,683.46
Total Regular Labor Expense	1,798.59	47,004.45
<b>Total Direct Labor</b>	<b>1,798.59</b>	1,798.59
<b>Profit / Fixed Fee %</b>	<b>12.00 215.83</b>	<b>5,640.53</b>
Direct Expenses Charge	0.00	855.92
Expense Multiplier %	5.00 0.00	42.82
Direct Subcontractor Charge	2,263.76	198,199.96
Subcontractor/Subconsultant Multiplier %	6.00 135.83	11,892.00
Direct Unit Rate Charge	0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>	<b>2,399.59</b>	<b>210,990.70</b>
<b>Total Costs:</b>	<b>4,414.01</b>	<b>263,635.68</b>
<b>Total Due This Invoice</b>	<b>\$ 4,414.01</b>	<b>\$ 263,635.68</b>



**NTH Consultants, Ltd.**  
 Infrastructure Engineering  
 and Environmental Services

82912 - 149090 - 730639 - 2603 - Ch 21 - v#4716 exp. 12/31/23  
 li#24138

*Jed Brun*

7/12/2022

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

Invoice # : 629902  
 Project : 61-210313  
 Invoice Group : \*\*  
 Invoice Date : 7/6/2022

Attention Sid Lockhart

For Professional Services Rendered from 5/21/2022 - 6/24/2022

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
	<b>Preliminary Budget Amount</b>	<b>\$68,071.00</b>
	<b>Percent Complete:</b>	65.13%

		This Invoice	Cumulative
<b>Analysis of Costs</b>			
Direct Salaries		\$ 32.82	\$ 8,493.55
Overhead %	188.00	61.70	15,967.87
Total Regular Labor Expense		94.52	24,461.42
<b>Total Direct Labor</b>		<b>94.52</b>	<b>24,461.42</b>
<b>Profit / Fixed Fee %</b>	12.00	<b>11.34</b>	<b>2,935.36</b>
Direct Expenses Charge		0.00	0.00
Expense Multiplier %	5.00	0.00	0.00
Direct Subcontractor Charge		740.79	16,134.41
Subcontractor/Subconsultant Multiplier %	5.00	37.04	806.73
<b>Total Other Direct Charges Reimbursables</b>		<b>777.83</b>	<b>16,941.14</b>
<b>Total Costs:</b>		<b>883.69</b>	<b>44,337.92</b>
<b>Total Due This Invoice</b>		<b>\$ 883.69</b>	<b>\$ 44,337.92</b>



**NTH Consultants, Ltd.**  
Infrastructure Engineering  
and Environmental Services

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

Invoice # : 629903  
Project : 61210495  
Invoice Group :  
Invoice Date : 7/6/2022

Attention: Sid Lockhart

For Professional Services Rendered from 5/21/2022 - 6/24/2022

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

7/12/2022

Additional OMID NESPS Maintenance Engineering Services

Task 01	NESPS Health and Safety Audit	\$16,137.00
Task 02	Control Structure 6 (CS-6) Emergency Bypass System Design	\$39,643.00
Task 03	Wet Wall Screen Cleaning Equipment	\$17,069.00
Task 04	Control Structure Gate Inspection	\$10,022.00

Preliminary Budget Amount \$82,871.00  
Percent Complete: 67.28%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 875.91	\$ 12,666.77
Overhead %	188.00	1,646.71	23,813.52
Total Regular Labor Expense		2,522.62	36,480.29
<b>Total Direct Labor</b>		<b>2,522.62</b>	<b>36,480.29</b>
<b>Profit / Fixed Fee %</b>	12.00	<b>302.71</b>	<b>4,377.63</b>
Direct Expenses Charge		0.00	319.94
Expense Multiplier %	5.00	0.00	16.00
Direct Subcontractor Charge		0.00	13,738.10
Subcontractor/Subconsultant Multiplier %	6.00	0.00	824.29
<b>Total Other Direct Charges Reimbursables</b>		<b>0.00</b>	<b>14,898.33</b>
<b>Total Costs:</b>		<b>2,825.33</b>	<b>55,756.25</b>
<b>Total Due This Invoice</b>		<b>\$ 2,825.33</b>	<b>\$ 55,756.25</b>



Rotor Electric Company of Michigan, LLC.

9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contrac

Table with columns: Job Number, Sub Job, Contract Number, Date Performed, Application Date, Application Number. Values: 719707, 0, 001, 5/31/2022, 6/13/2022, 12522

JOEL BROWN

Table with columns: Item No, Description of Work, Contract Amount, Previous Billings, Current Amount, To Date Complete & Stored, Balance To Finish, Current Retainage. Includes row for SWITCHGEAR MAINTENANCE AND TESTING and a Totals row.

WO-527

BATTERY MAINTENANCE

Handwritten initials TM, date 6-13-22, signature, and date 7/12/2022

82912 - 6010101 - 149090 - 730660 - 5807 - Ch. 21 - v#22125 - li#42614 - exp. 6/28/25

complete electrical construction

"We herby 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."





Rotor Electric Company of Michigan, LLC.

9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contrac

Table with columns: Job Number, Sub Job, Contract Number, Date Performed, Application Date, Application Number. Values: 719707, 0, 001, 6/1/2022, 6/13/2022, 12523

JOEL BROWN

Summary table with columns: Item No, Description of Work, Contract Amount, Previous Billings, Current Amount, To Date Complete & Stored, Balance To Finish, Current Retainage. Includes Totals and Invoice Total rows.

WO-625

TM 6-13-22

PUMP P5 AND P6 MOTOR MAINTENANCE

Handwritten signature

7/12/2022

82912 - 6010101 - 149090 - 730660 - 5807 - Ch. 21 - v#22125 - li#42614 - exp. 6/28/25

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."



Rotor Electric Company of Michigan, LLC.

9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contrac

Table with columns: Job Number, Sub Job, Contract Number, Date Performed, Application Date, Application Number. Values: 719707, 0, 001, 6/2/2022, 6/13/2022, 12524

JOEL BROWN

Table with columns: Item No, Description of Work, Contract Amount, Previous Billings, Current Amount, To Date Complete & Stored, Balance To Finish, Current Retainage. Includes row for SWITCHEAR MAINTENANCE AND TESTING and a Totals row.

WO-624

FLOOR L3, L4, L5 RE-LAMPING

TMM 6-13-22

82912 - 6010101 - 149090 - 730660 - 5807 - Ch. 21 - v#22125 - li#42614 - exp. 6/28/25

Handwritten signature

7/12/2022

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."



Rotor Electric Company of Michigan, LLC.

9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contrac

Table with columns: Job Number, Sub Job, Contract Number, Date Performed, Application Date, Application Number. Values: 719707, 0, 001, 6/7/2022, 6/13/2022, 12525

JOEL BROWN

Table with columns: Item No, Description of Work, Contract Amount, Previous Billings, Current Amount, To Date Complete & Stored, Balance To Finish, Current Retainage. Includes item 001 for SWITCHGEAR MAINTENANCE AND TESTING and a Totals row.

WO-652

TMM 6-13-22

P2 TRIP EVENT INVESTIGATION

Handwritten signature of Joel Brown

7/12/2022

82912 - 6010101 - 149090 - 730660 - 5807 - Ch. 21 - v#22125 - li#42614 - exp. 6/28/25

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."



Rotor Electric Company of Michigan, LLC.

9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contrac

Table with columns: Job Number, Sub Job, Contract Number, Date Performed, Application Date, Application Number. Values: 719707, 0, 001, 5/5/2022, 6/13/2022, 12526

JOEL BROWN

Table with columns: Item No, Description of Work, Contract Amount, Previous Billings, Current Amount, To Date Complete & Stored, Balance To Finish, Current Retainage. Includes row for SWITCHEAR MAINTENANCE AND TESTING and a Totals row.

WO-635

TM 6-13-22

OVATION SCREEN SUBMITTAL REVIEW

PUMP OPERATIONAL ISSUE MEETING

Handwritten signature

7/12/2022

82912 - 6010101 - 149090 - 730660 - 5807 - Ch. 21 - v#22125 - li#42614 - exp. 6/28/25

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."



Rotor Electric Company of Michigan, LLC.

9522 GRINNELL
DETROIT, MI 48213-1151
PHONE (313) 891-0331 FAX (313) 921-5310
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contrac

Table with columns: Job Number, Sub Job, Contract Number, Date Performed, Application Date, Application Number. Values: 719707, 0, 001, 4/20/2022, 6/13/2022, 12527

JOEL BROWN

Main invoice table with columns: Item No, Description of Work, Contract Amount, Previous Billings, Current Amount, To Date Complete & Stored, Balance To Finish, Current Retainage. Includes totals and invoice total of \$11,587.05.

WO-574

P4 VFD INSPECTION, MAINTENANCE, TESTING

TMM 6-13-22

82912 - 6010101 - 149090 - 730660 - 5807 - Ch. 21 - v#22125 - li#42614 - exp. 6/28/22

Handwritten signature of Joel Brown

7/12/2022

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."

**Agenda Item No. 11**

Architectural Options and Construction Cost Estimates  
for ST-S-3 Presentation

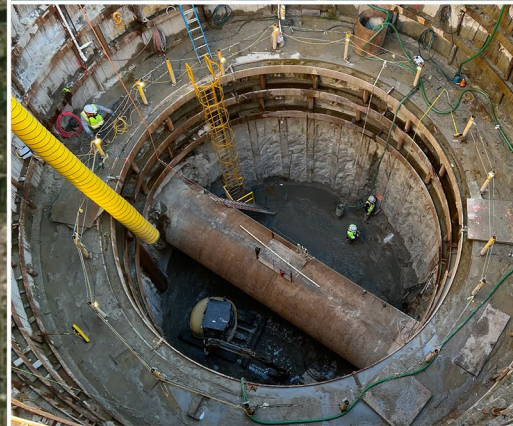
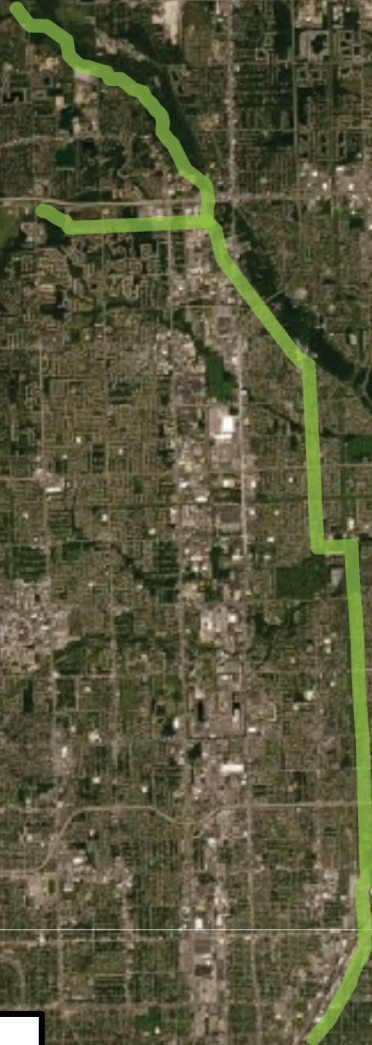


Architectural Alternatives and Construction Cost Estimates for ~~ST~~

# Design for Odor and Corrosion Control Systems within the Oakland - Macomb Interceptor Drain

Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)

July 20, 2022



©esri 2022



MICHAEL GREGG  
State of Michigan  
Department of Agriculture  
and Rural Development



Jim Nash

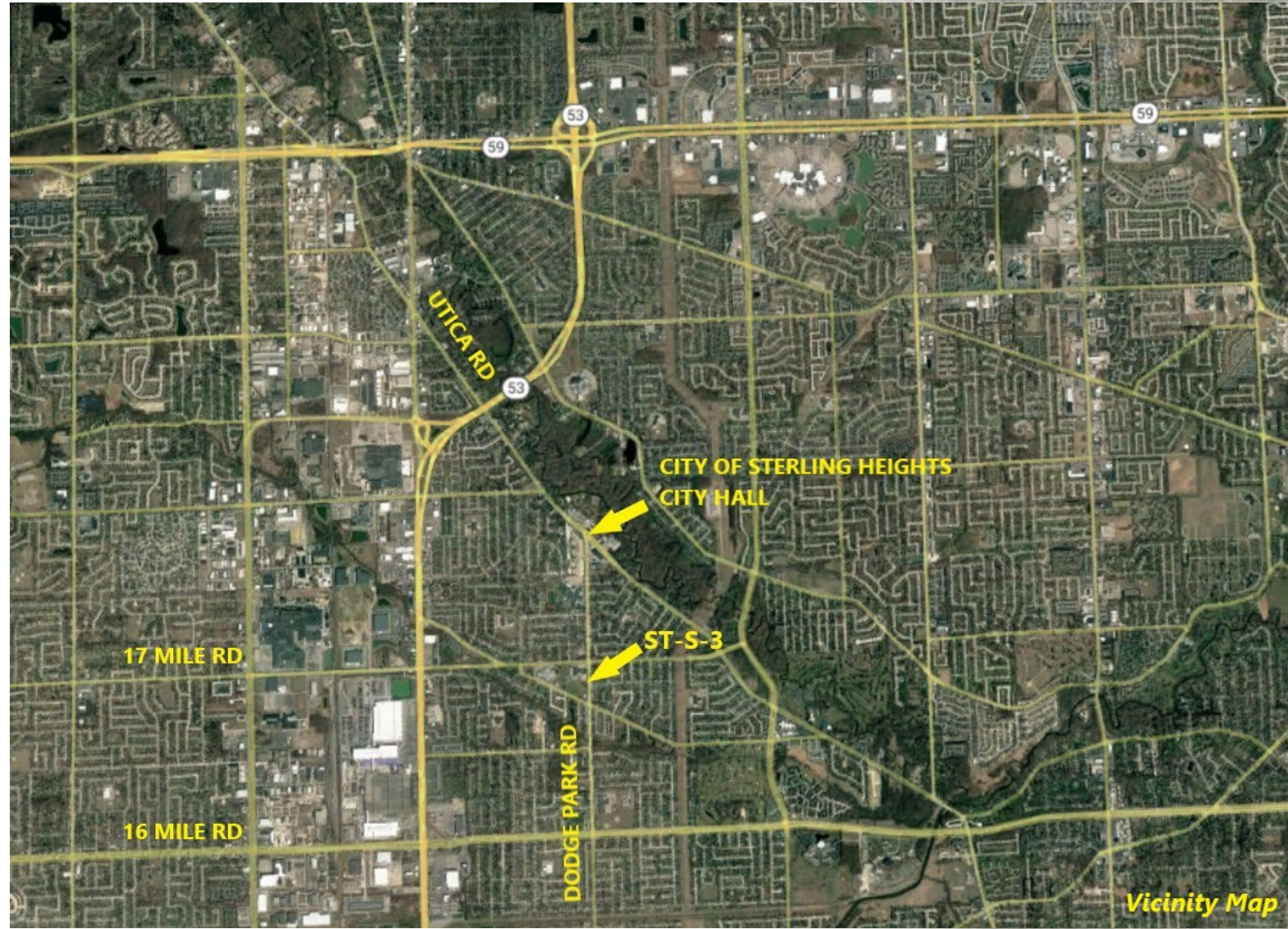


Candice S. Miller  
Macomb County  
Public Works  
Commissioner



# Meter Station ST-S-3

- Located in the City of Sterling Heights on Dodge Park Rd, just south of 17 Mile Rd
- No existing odor control equipment
- Field testing performed in December 2020 to determine size of required treatment system
- A range of treatment technologies considered, including biofilters and activated carbon





# Meter Station ST-S-3

- Based on the study, a vaporphase activated carbon system with a 14,000 -cfm blower fan was selected
- Only ~20 ft separation between meter equipment and adjacent home to the east
- Located a few hundred feet north of Rougewood Subdivision—an area of frequent and ongoing odor complaints
- Jacobs developed four conceptual alternatives for siting the carbon vessel, blower fan, and support equipment





# Architectural Alternative 1: Above Grade with Vegetative Screening

- Carbon vessel and blower fan located above grade
- No structure - fan enclosure required for noise mitigation
- Vegetative screening
- Requires ~27-foot-tall stack for dispersion of treated air
- Construction cost: \$1.3-\$2.9 million





## Architectural Alternative 2: Underground Vault

- Carbon vessel and blower fan located in underground concrete vault
- ~20 ft deep, surface dimensions 29 ft x 53 ft
- More complex foundation design and construction
- Vault mitigates fan noise
- Requires ~27-foot-tall stack for dispersion of treated air
- Construction cost: \$2.4-\$5.1 million





## Architectural Alternative 3: Façade Walls

- Carbon vessel and blower fan located behind façade walls
- Industrial character
- Open-top construction - will require noise enclosure around fan equipment
- Requires ~27-foot-tall stack for dispersion of treated air
- Construction cost: \$1.5-\$3.3 million

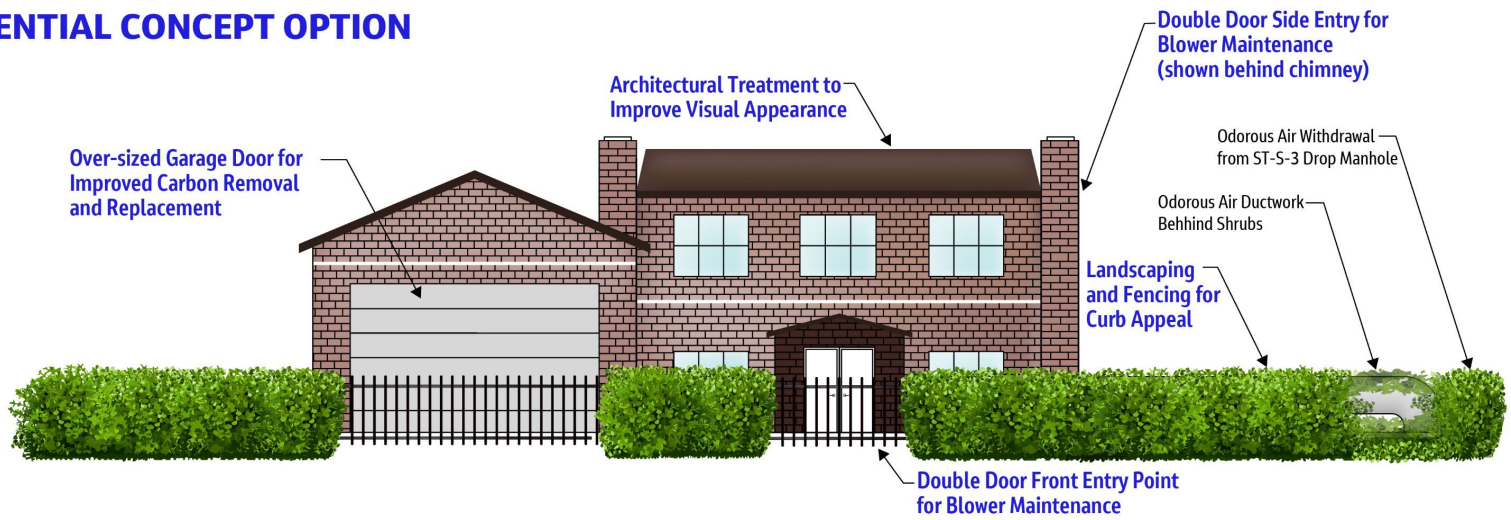




# Architectural Alternative 4: Residential Style

## ST-S-3 POTENTIAL CONCEPT OPTION

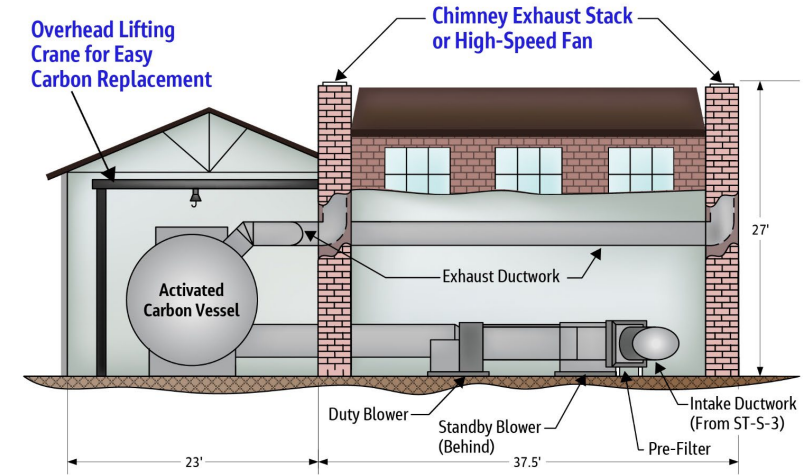
- Carbon vessel and blower fan located inside of replica home
- Enclosed building effectively mitigates fan noise
- Carbon replacement through faux 'garage'
- Requires ~27-foot-tall stack for dispersion of treated air – stack hidden inside of 'chimney'
- Construction cost: \$2.0-\$4.2 million



STREET VIEW DODGE PARK ROAD



3D RENDERING



SECTION VIEW

# ST-S-3 Activated Carbon System Construction Cost Summary

Alt. No.	Alternative Description	Construction Cost (\$Million)		Effectively Mitigates		
		Low	High	Odor	Noise	Visual Impacts
1	Above Grade with Vegetative Screening	\$1.3	\$2.9	●		
2	Underground Vault	\$2.4	\$5.1	●	●	
3	Façade Walls	\$1.5	\$3.3	●	●	
4	Residential Style	\$2.0	\$4.2	●	●	●

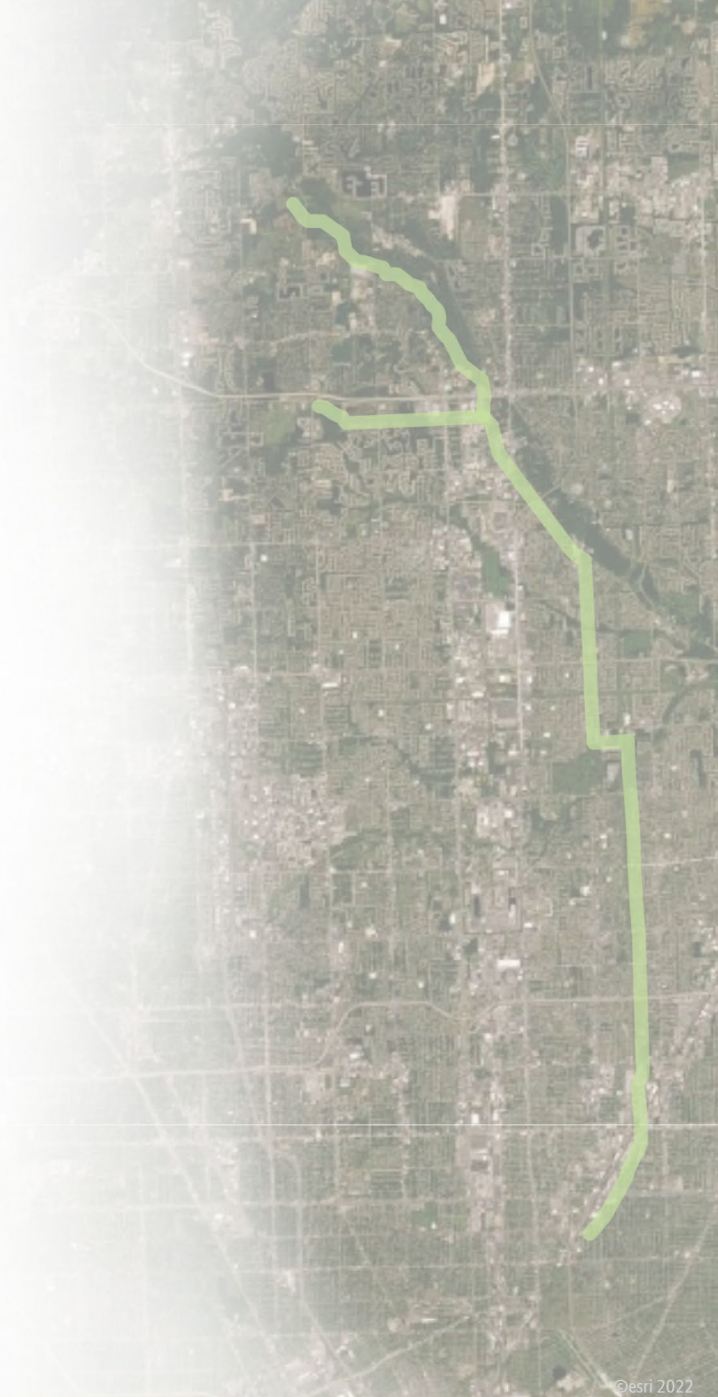


# Basis of Estimates

- Costs presented represent a Class 4 estimate, as defined by the AACE International (Association for the Advancement of Cost Engineering)
- Class 4 Estimate Definition for Process Industries
  - Maturity Level of Project Definition Deliverables (% of complete definition): 1-15%
  - Appropriate End Usage: Study of feasibility
  - Chosen Methodology: Equipment factored or parametric models (i.e., Jacobs' Cost and Parametric Engineering System [CPES] and Odor Cost Tools)
  - Expected Accuracy Range:
    - › Low: -15% to -30%
    - › High: +20% to +50%
- ENR Cost Index escalated to mid-point of construction of January 2024
- Additional 35% markup for “Construction Market Uncertainty” to account for current material/equipment supply constraints and market volatility

# Contractor Markup Percentages

Markup		Applied Percentage
Sales Tax		6%
Contractor Markups		
	General Conditions	6%
	Contractor Overhead	6%
	Contractor Profit	10%
	Bonds and Insurance	3%
	Construction Contingency	30%
	Bid Marketplace Adjustment Factor	10%
	Escalation (3% per year)	6%
Construction Market Uncertainty Factor		35%









## **Agenda Item No. 12**

Other Business

**Agenda Item No. 12**

Adjourn