

## **AGENDA**

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

**October 21, 2020 – 11:30 a.m.**  
Via GoToMeeting

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 October 21, 2020
3. Motion to approve the Drainage District Board Meeting Minutes from September 16, 2020
4. Public Comment
5. Present for approval the use of Oakland County Photographer and GLWA drone pilot to take construction photos for the NESPS Pumping and Electrical Upgrades Project
6. Discussion of Project Budget Summary and present for approval the Drainage District entering into a contract with Marra Construction for the NI-EA Rehabilitation Project
7. Lockout-Tagout procedure discussion
8. Present for approval the guaranteed maximum price amendment with Walsh Construction for the NESPS Pumping and Electrical Upgrades Project
9. Motion to approve the following Engineering Work Orders:
  - a) METCO for Complete Scope of Services Related to Drainage District Operations and Maintenance Responsibilities
  - b) NTH for Construction Contract Administration Services on the NI-EA Rehabilitation Project
  - c) ASI for Construction Contract Administration Services on the NESPS Pumping and Electrical Upgrades Project
10. Motion to approve the following Change Order:

CSM Mechanical Change Order No. 2 for the OMID Flow Control Improvements Project for a net increase in the amount of \$12,296.61
11. Motion to approve the following Construction Estimate:

Construction Estimate No. 2 for Detroit Elevator Company in the amount of \$78,823.70

12. Report/Update – Status of OMI Project, Segments 1 through 4, NESPS, NI-EA
13. Financial Reports – General Financial Report and Status of State Revolving Fund Financing and Other Financing
14. Motion to approve the following Invoices totaling \$249,292.92:
- a) Reimbursement of Oakland County WRC-Incurred Expenses and Costs
    - 1) Labor/Fringes/Non-Direct Labor Factor
      - Segment 4 NESPS Odor Corrosion Study \$ 22,032.24
      - Segment 4 NESPS Gatehouse \$ 194.30
    - 2) Equipment Charges
      - Segment 4 NESPS Odor Corrosion Study \$ 2,812.46
      - Segment 4 NESPS Gatehouse \$ 7.48
  - b) Applied Science, Inc.  
Invoice No. 20 NESPS M&E \$ 48,207.33
  - c) CH2M  
Invoice No. 705773CH020 Seg. 4 \$ 32,385.97
  - d) Clark Hill
    - 1) Invoice No. 1018323 O&M \$ 2,997.00
    - 2) Invoice No. 1019309 O&M \$ 1,107.00
  - e) CSM Mechanical
    - 1) Invoice No. 20OMIDD002 O&M \$ 1,310.00
    - 2) Invoice No. 20OMIDD003 O&M \$ 3,540.94
    - 3) Invoice No. 20OMIDD004 O&M \$ 389.70
    - 4) Invoice No. 20OMIDD007 O&M \$ 7,500.59
    - 5) Invoice No. 20OMIDD010 O&M \$ 4,155.15
  - f) Detroit Elevator Company  
Invoice No.188128 O&M \$ 182.00
  - g) Dickinson Wright  
Invoice No. 1512133 O&M \$ 1,155.00
  - h) Inland Lakes
    - 1) Invoice No. 24627 O&M \$ 1,625.00
    - 2) Invoice No. 24628 O&M \$ 1,125.00
  - i) Jacobs  
Invoice No. 697317CH025 O&M \$ 19,230.12
  - j) Kennedy Industries  
Invoice No. 618284 O&M \$ 748.00
  - k) Motor City Electric Technologies Inc.
    - 1) Invoice No. 93245 O&M \$ 654.50
    - 2) Invoice No. 93246 O&M \$ 192.50
  - l) NTH Consultants, Ltd
    - 1) Safety Manual and Crane Support Eval.  
Invoice No. 4 O&M \$ 5,328.33
    - 2) CS9 – Hydraulic Control Gate  
Invoice No. 6 NI-EA \$ 8,767.44
    - 3) NI-EA – Engineering Design Services Rehabilitation of NI-EA Sections PCI-4  
Invoice No. 16 NI-EA \$ 52,257.86
    - 4) Repairs – OMID System Immediate Repairs  
Invoice No. 20 OIR \$ 139.51
    - 5) NESPS CCA and Construction Observation  
Invoice No. 53 Seg. 4 \$ 1,342.95

m)	PM Technologies			
1)	Invoice No. 143106	O&M	\$	1,699.84
2)	Invoice No. 143242	O&M	\$	776.25
n)	PMA Consultants			
	Invoice No. 3559.01-4	NESPS	\$	7,469.52
o)	Rotor Electric Co.			
1)	Invoice No. 12329	O&M	\$	665.00
2)	Invoice No. 12354	O&M	\$	1,178.70
3)	Invoice No. 12355	O&M	\$	712.00
4)	Invoice No. 12357	O&M	\$	1,197.00
5)	Invoice No. 12359	O&M	\$	3,499.32
6)	Invoice No. 12360	O&M	\$	4,343.97
7)	Invoice No. 12361	O&M	\$	2,666.48
8)	Invoice No. 12362	O&M	\$	2,326.47
9)	Invoice No. 12364	O&M	\$	1,910.00
10)	Invoice No. 12365	O&M	\$	1,460.00
p)	Walsh Construction Company			
	Invoice No. 220008 Pre-Con 8	O&M	\$	67,011.13

15. Other Business

16. Adjourn

Next Regular Meeting: November 18, 2020 11:30 a.m., Eastern Standard Time. Due to the ongoing COVID-19 pandemic, the location and manner of the October meeting has yet to be determined.

**October 21, 2020 OMID meeting**

**Wed, Oct 21, 2020 11:30 AM - 2:00 PM (EDT)**

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## **Agenda Item No. 3**

Board Meeting Minutes from September 16, 2020

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

September 16, 2020

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held via GoToMeeting on the 16<sup>th</sup> day of September at 11:30 a.m. Eastern Standard Time.

**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 Jim Nash, Secretary and Oakland County Water Resources Commissioner.

**OTHERS PRESENT:**

Representing the office of the Macomb County Public Works Commissioner: Stephen Downing. Representing the office of the Oakland County Water Resources Commissioner: Steven Korth, Joel Brown, Sid Lockhart, Brian Coburn, Kelsey Cooke and Megan Koss. Others in attendance: Fritz Klingler, FK Engineering; Shawn Phelps, OC Fiscal Services; Larry Gilbert and Saju Sachidanandan, NTH Consultants; Sal Saputo, Meadowbrook Insurance Group; and Joe Colaianne, Clark Hill.

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 11:31 a.m. The Chairperson made a brief statement regarding the ongoing COVID-19 pandemic and, as a result, the need for the meeting to be held via GoToMeeting. He indicated that the meeting was being held in compliance with the Governor's Executive Orders, which provide that meetings can be held electronically while satisfying the tenants of the Open Meetings Act, so long as a quorum is met and meaningful public participation is guaranteed.

2. Agenda.

Megan Koss indicated that two additional invoices (CH2M invoice no. 705773CH018 and Clark Hill invoice no. 1017938) were added to the agenda for Board consideration. Shawn Phelps noted that with the addition of the aforementioned invoices, the total amount of invoices to be approved by the Board was now \$753,680.13. Motion by Nash, supported by Baker, to approve the amended September 16, 2020 agenda as presented.

**ROLL CALL VOTE:**

GREGG:     AYE  
BAKER:     AYE  
NASH:       AYE

3. Minutes.

Motion by Baker, supported by Nash, to approve the minutes of the August 26, 2020 meeting.

**ROLL CALL VOTE:**

GREGG:     AYE

BAKER: AYE  
NASH: AYE

4. Public Comment. None.

5. Meadowbrook Amendment Number Four to the contract for construction safety consultant to include the NESPS-NIEA OCIP.

Joel Brown detailed amendment number four to the current Meadowbrook contract pertaining to the construction safety consultant. Specifically, Mr. Brown indicated that the proposed amendment would include the NESPS-NIEA OCIP. He furthered that the amendment provided for the scope of work that Meadowbrook has been doing for the NESPS odor/corrosion.

Motion by Nash, supported by Baker, to approve amendment number four to the contract as presented.

ROLL CALL VOTE:

GREGG: AYE  
BAKER: AYE  
NASH: AYE

6. Discussion regarding the assignment of the Drainage District Services Agreement from Macomb County to the Macomb Interceptor Drainage District and approval of the 2017 Settlement Agreement by GLWA.

Mr. Baker presented a brief history of various outstanding issues regarding the assignment of the Drainage District services agreement from Macomb County to the Macomb Interceptor Drainage District and approval of the 2017 settlement agreement by GLWA. Discussion ensued regarding the aforementioned. While no Board action was requested, Mr. Baker indicated that he hoped the discussion would help further the effort to wrap-up the outstanding items at hand. He also noted he would like to see the efforts memorialized into Board action items at the October 21, 2020 meeting.

7. Approval of Cost-Sharing Agreement between Macomb Interceptor Drain Drainage District and the OMIDD (Slip Lining Project).

Mr. Brown provided an overview of the revised cost-sharing agreement between the Drainage District and the Macomb Interceptor Drain Drainage District. He noted that the agreement now provides for the inclusion of construction contract administration services by FK Engineering, which total approximately \$57,000 in additional costs.

Motion by Baker, supported by Nash, to approve the cost-sharing agreement as presented and authorize the Chair to execute the agreement.

ROLL CALL VOTE:

GREGG: AYE  
BAKER: AYE  
NASH: AYE

8. Change Order.

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

Change Order No. 8 for CSM Mechanical, LLC for Odor/ Corrosion Control Project for a net increase in the amount of \$29,610.31. Motion by Nash, supported by Baker, to approve the Change Order as presented.

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

9. Construction Pay Estimate.

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

- a. Construction Estimate No. 13 for CSM Mechanical, LLC in the amount of \$87,824.99
- b. Construction Estimate No. 2 for CSM Mechanical, LLC in the amount \$96,200 to the contractor
- c. Construction Estimate No. 1 for Detroit Elevator Company in the amount of \$115,412.90 and a transfer of \$13,141.90 to the Oakland County Treasurer

Motion by Baker, supported by Nash, to approve the Construction Pay Estimates as presented.

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

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 Nash, to receive and file the report and summary.

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

11. Financial Reports.

Shawn Phelps of OC Fiscal Services presented the financial reports for Segments 2 through 5 and the NESPS. Motion by Nash, supported by Baker, to receive and file the financial reports.

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

12. Invoices.

The following invoices totaling \$753,680.13 were submitted to the Board for approval:

a)	Reimbursement of Oakland County WRC-Incurred Expenses and Costs		
1)	Labor/Fringes/Non-Direct Labor Factor		
	• Segment 4		\$ 371.15
	• Segment 4 NESPS Odor Corrosion Study		\$ 8,268.21
2)	Equipment Charges		
	• Segment 4		\$ 35.62
	• Segment 4 NESPS Odor Corrosion Study		\$ 1,610.44
b)	Applied Science, Inc.		
	Invoice No. 19	NESPS M&E	\$ 74,049.11
c)	CH2M		
1)	Invoice No. 705773CH017	Seg. 4	\$ 36,416.97
2)	Invoice No. 705773CH018	Seg. 4	\$ 18,419.17
3)	Invoice No. 705773CH019	Seg. 4	\$ 36,575.83
d)	Clark Hill		
1)	Invoice No. 1009440	O&M	\$ 1,917.00
2)	Invoice No. 1017938	O&M	\$ 131,840.78
e)	Detroit Elevator Company		
	Invoice No. 187534	O&M	\$ 581.65
f)	Dickinson Wright		
	Invoice No. 1503601	O&M	\$ 1,750.00
g)	Jacobs		
1)	Invoice No. 697317CH022	O&M	\$ 22,988.97
2)	Invoice No. 697317CH023	O&M	\$ 6,484.91
3)	Invoice No. 697317CH024	O&M	\$ 11,920.40
h)	Kennedy Industries		
	Invoice No. 620199	O&M	\$ 1,133.00
i)	Konecranes		
	Invoice No. 154356248	O&M	\$ 11,784.01
j)	METCO		
	Invoice No. 1811-20	O&M	\$ 73,117.30
k)	Moody's Investor Services		
	Invoice No. P0348300	O&M	\$ 34,500.00
l)	Motor City Electric Technologies Inc.		
1)	Invoice No. 93209	O&M	\$ 237.50
2)	Invoice No. 93210	O&M	\$ 107.00
3)	Invoice No. 93211	O&M	\$ 115.50
4)	Invoice No. 93212	O&M	\$ 154.00
5)	Invoice No. 93213	O&M	\$ 320.83
m)	Municipal Financial Consultants		
	Invoice No. 1097	O&M	\$ 75,860.79
n)	NTH Consultants, Ltd		
1)	Eng./Consult. Services NESPS CMT		
	Invoice No. 1	O&M	\$ 3,521.65
2)	Safety Manual and Crane Support Eval.		
	Invoice No. 3	O&M	\$ 2,880.47

3)	CS9 – Hydraulic Control Gate			
	Invoice No. 5	NI-EA	\$	4,743.87
4)	NI-EA – Engineering Design Services for Rehabilitation of NI-EA Sections			
	PCI-4			
	Invoice No. 15	NI-EA	\$	56,272.83
5)	Repairs – OMID System Immediate Repairs			
	Invoice No. 19	OIR	\$	1,246.11
6)	NESPS CCA and Construction Observation			
	Invoice No. 52	Seg. 4	\$	2,642.80
o)	PM Technologies			
	1) Invoice No. 137944	O&M	\$	3,084.32
	2) Invoice No. 140204	O&M	\$	501.25
p)	PMA Consultants			
	Invoice No. 3559.01-3	NESPS	\$	5,666.53
q)	Premiere Safety			
	Invoice No. 04176358	O&M	\$	222.00
r)	Walsh Construction			
	Invoice No. 22008 Pre-Con 7	NESPS M&E	\$	121,528.16

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

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

13. Other Business.

Mr. Brown brought to the Board's attention the need to install electrical duct banks in the area of NI-EA/NESPS. The area in question is GLWA's and there is no current agreement to access their site for the necessary installation. As a result, Joe Colaianne was asked to develop a Memorandum of Understanding between the Drainage District and GLWA for a temporary easement for the purposes of conducting the electrical work. Mr. Colaianne provided an update regarding the status of M.O.U. discussions with GLWA's attorney, noting that a finalized agreement was forthcoming.

Motion by Baker, supported by Nash, to authorize Clark Hill to represent the Board regarding negotiations with GLWA and present a final agreement to the Secretary for signature.

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE

NASH: AYE

14. Adjourn.

Motion by Nash, supported by Baker, to adjourn the September 16, 2020 meeting at 12:52 p.m.

ROLL CALL VOTE:

GREGG: AYE

BAKER: AYE  
NASH: AYE

Next Regular Meeting: October 21, 2020 at 11:30 a.m., Eastern Standard Time. Due to the ongoing COVID-19 pandemic, the October meeting will be held virtually via GoToMeeting.

I hereby certify that the foregoing constitutes the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage Board, at a meeting held on August 26, 2020 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 and Executive Order 2020-75 and that the minutes were kept and will be or have been made available as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

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Jim Nash, Secretary  
Oakland-Macomb Interceptor Drain Drainage Board



## **Agenda Item No. 4**

### **Public Comment**

## **Agenda Item No. 5**

Memorandum regarding NESPS construction photos



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

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**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: Request for Approval to Use Oakland County Photographer and GLWA Drone  
Operations to Document NESPS Pumping and Electrical Upgrades Project Progress**

**DATE: October 21, 2020**

During the course of construction of the NESPS Pumping and Electrical Upgrades Project, Walsh is required to obtain monthly professional construction photos (10 per month) of the jobsite that are to be compiled into an album. Initial quotes from Walsh for the photography was approximately \$24,750 (for 36 months). These photos can be used by OMIDDD for documentation and marketing purposes to the communities we serve. As this particular effort was reviewed and discussed, we believed it may be worthwhile to obtain periodic aerial photos of the new electrical building via a drone. However, initial estimates for the drone sessions (one hour long) was \$2,850 per session. In addition, there were security clearances that had to be met with GLWA in order to fly the drone over the NESPS and take the photos.

The project team believed we could be more cost-effective and flexible with this process by utilizing either Oakland County or Macomb County staff/vendors for the photography and drone use. Through additional searching we determined an Oakland County photographer could provide the same monthly construction photography service for 36 months for approximately \$22,100. In addition, we would have the rights to all the pictures. If we find that normal inspection and superintendent photos are sufficing, we can adjust the adjust frequency and content more easily than going through a Walsh vendor. Further, through this process, we will be able to work out an agreement with GLWA to utilize their drone and pilot, at labor cost, to take the aerial pictures such as Figure 1 below.



**Figure 1: Aerial View of NESPS Looking West**

This significantly reduces the security impediments we would otherwise have to undertake using a third-party vendor. The estimated cost for using the GLWA drone is approximately \$400 per session, and assuming a maximum of 18 sessions (bi-monthly average) could be needed, the maximum total project duration cost would be \$7,200.

Consequently, using the Oakland County photographer and GLWA drone/pilot provides for a more cost-effective, flexible, adaptive way to capture professional photos on this project and we would recommend that the Board approve proceeding in this manner. The total cost of the photography is not to exceed \$29,300 for the project duration and will likely be less given the flexibility we will have. This amount can be accommodated for within the NESPS Pumping and Electrical Upgrades project budget.

**RECOMMENDED ACTION: Approve the use of an Oakland County photographer and GLWA pilot with drone to take project progress construction photos for a not-to-exceed amount of \$29,300. Funding for this effort can be accommodated within the existing NESPS Pumping and Electrical Upgrades Budget.**

**Agenda Item No. 6**

**Marra Construction Contract**

**NESPS M&E Upgrades and NI-EA Rehabilitation Project Budget Summary-First Bond Series**  
**Revised Project Costs Based on Bid and Cost Proposals**  
**19-Oct-21**

	<b>NESPS M&amp;E Upgrades</b>	<b>NI-EA Rehabilitation (PCI-4 &amp; CS-9)</b>
<b>1) Construction (FAC)</b>		
Project Construction Cost-Walsh	\$ 40,856,627	-
Project Construction Cost (Est)-PCI-4	-	\$ 14,732,510
Project Construction Cost (Est)-CS-9	-	\$ 3,251,118
Sub-Total	<b>\$ 40,857,000</b>	<b>\$ 17,983,628</b>
<b>2) Project Development: Engineering Consulting (ENG CON)</b>		
ASI/NTH Design Effort	\$ 1,319,213	\$ 2,205,063
CM Preconstruction Services-Walsh (Rolled into GMP)	\$ -	\$ -
Scheduling Consultant-PMA	\$ 225,000	\$ 225,000
Consultant CCA - ASI	\$ 2,443,262	\$ -
Consultant CCA - NTH	\$ -	\$ 2,483,415
Sub-Total	<b>\$ 3,987,000</b>	<b>\$ 4,913,000</b>
<b>3) Project Financing &amp; Legal (LEGAL)</b>		
Project Insurance	\$ 1,083,134.54	\$ 541,567.27
Construction Safety Consultant	\$ 400,000	\$ 200,000
MIG Consultant Services	\$ 333,000	\$ 100,000
Bond Issuance (Legal)	\$ 114,510	\$ 58,990
Bond Issuance (Financial Consultant)	\$ 50,177	\$ 25,849
Other Financing Costs	\$ 5,346	\$ 2,754
Bond Ratings	\$ 37,620	\$ 19,380
Underwriter Discount Est (\$6.75/\$1,000)	\$ 373,228	\$ 190,005
Legal Fees (communities contract agreements)	\$ 20,000	\$ 120,000
Sub-Total	<b>\$ 2,417,000</b>	<b>\$ 1,259,000</b>
<b>3) Right-of-Way Services (ROW)</b>		
Easement Fees	\$ 25,000	\$ 128,000
Permits (Est)	\$ 325,000	\$ 90,000
County Personnel Time	\$ 42,838	\$ 49,486
Sub-Total	<b>\$ 393,000</b>	<b>\$ 267,000</b>
<b>4) Exclusive County Services:</b>		
Administration (ADM)	\$ 379,802	\$ 319,174
Public Works (MACOMB)	\$ 240,309	\$ 314,330
Engineering-OCWRC (ENG)	\$ 445,407	\$ 509,233
Construction Inspection (INS)	\$ 285,051	\$ 324,384
Surveying (SUR)	\$ 34,278	\$ 33,382
O&M/Equipment-MCPW (STD)	\$ 44,923	\$ -
O&M/Equipment-OCWRC (STD)	\$ 44,923	\$ 20,955
Startup and Training/Corrections-MCPW/OCWRC (STD)	\$ 40,385	\$ 20,955
Sub-Total	<b>\$ 1,515,000</b>	<b>\$ 1,542,000</b>
<b>5) Subtotal:</b>	<b>\$ 49,169,000</b>	<b>\$ 25,964,628</b>
<b>6) Contingency (0%-Overall Project</b>		
<b>Contingency on Next Bond Series)</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Final Project Cost</b>	<b>\$ 49,169,000</b>	<b>\$ 25,964,600</b>
<b>TOTAL</b>		<b>\$ 75,133,600</b>
	<b>Total for Bond</b>	<b>\$ 84,000,000</b>
	<b>NET Funds Available</b>	<b>\$ 8,866,400</b>

**I hereby certify the period of usefulness of these facilities to be twenty (20) years and upwards.**

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



## Oakland-Macomb Interceptor Drain Drainage District

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**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:** Recommendation for Contract Award to Marra Services Inc. for the NI-EA Contract No. 1: PCI-4 Rehabilitation Project

**DATE:** October 21, 2020

On September 29, 2020, four bids were received for the NI-EA Contract No. 1: PCI-4 Rehabilitation Project as follows:

- |  |                  |
|--|------------------|
| 1. Marra Services Inc.                       | \$14,732,510     |
| 2. L D'Agostini & Sons, Inc                  | \$18,250,258.50* |
| 3. Lanzo Trenchless Technologies, Inc. North | \$21,349,535     |
| 4. Ric-Man Construction, Inc.                | \$23,870,270     |

*\*Note original bid of \$18,215,258.50 had math error*

NTH reviewed the bids for conformance with the contract documents and had the following observations regarding the low bidder, Marra Services, Inc:

- Marra Services, Inc. appears to have the appropriate financial, material, equipment, and personnel resources necessary to meet all contractual requirements
- Marra Services, Inc. appears to have a satisfactory record of performance and integrity
- Marra Services, Inc. appears to have a satisfactory work plan and preliminary project schedule.

While NTH noted Marra Services, Inc. appears to be a smaller firm and they do not have the required 5,000 linear foot of pipe lining experience for systems 72 inches or greater in diameter, NTH believes Marra has sufficient experience and resources to satisfactorily complete the project. As such, we believe Marra to be the lowest responsive, responsible bidder and recommend they be awarded the contract for the NI-EA Contact No.1 PCI-4 Rehabilitation Project. If the Board agrees with recommendation, we would like the Board to further authorize that the Secretary be allowed to sign the appended Agreement and the Notice to Proceed be provided according to the following schedule:

1. Agreement Signed: Approximately December 16, 2020
2. Notice to Proceed: Approximately January 4, 2020

This timeline is necessary to avoid project conflicts and delays associated with the CS-9 Gate Construction project, which must be completed prior to any work within the NI-EA.

**RECOMMENDED ACTION:** Award the NI-EA Contact No.1 PCI-4 Rehabilitation Project Contract to Marra Services, Inc., permit the OMIDDD Secretary to sign the Agreement by December 16, 2020 and Issue a Notice to Proceed by January 4, 2020.



# Memorandum

**To:** Mr. Sid Lockhart, P.E. (OCWRC)  
Mr. Stephen Downing (MCPWC)  
Mr. Joel Brown, P.E. (OCWRC)

**From:** A. Almadhoun, P.E., Saju Sachi, P.E., & Larry Gilbert, P.E. (NTH)  
F. Klingler, P.E. (FKE)

**Date:** October 9, 2020 (**Revised October 14, 2020**)

**Re:** NI-EA OMID Contract No. 1 PCI-4 Rehabilitation Project  
Contract Award Recommendation

**NTH Project No. 61-190078-13**

The purpose of this memorandum is to provide our bid evaluation and recommendation related to the NI-EA OMID Contract No. 1 PCI-4 Rehabilitation project. On September 30, 2020, four (4) contractors submitted proposals for the above-mentioned project. The submitted pricing was read aloud virtually via Go-to-Meeting at the WRC bid opening location as follows:

<u>Name of Contractor</u>	<u>Total Contract Price (\$)</u>
Marra Services, Inc.	\$14,732,510.00
L D'Agostini & Sons, Inc.	\$18,215,258.50*
Lanzo Trenchless Technologies, Inc. North	\$21,349,535.00
Ric-Man Construction, Inc.	\$23,870,270.00

*\* Reflects original bid price submitted on 9/30/20. Price corrected to \$18,250,258.50 based on Engineer review to correct for an arithmetic error in the unit price extension as well as the sum of the individual bid items.*

The bid tabulation is attached to this Memo as Figure No. 1.

The proposals were reviewed for conformance with the Contract Documents. In addition, we reviewed the required "Section 00 45 13 - Experience and Qualification Statements" verifying the Contractors familiarity with similar work. A tabulation of our Bid package checklist is also included in Figure No. 1. The Escrow Bid Documents for Marra Services, Inc. were submitted with the Bid, while the Escrow Bid Documents for L D'Agostini & Sons, Inc. were submitted to the Oakland County Water Resources Commissioner's Office within twenty-four hours of the bid opening. Escrow Bid Documents for Lanzo Trenchless Technologies, Inc. North and Ric-Man Construction, Inc. were not submitted. The submitted Escrow Bid documents were placed in the possession of the Project Owner.

## DISCUSSION AND RECOMMENDATION

A Bid Review Team consisting of Mr. Sid Lockhart, Mr. Joel Brown (Oakland County Water Resources Commissioner's Office); Mr. Stephen Downing (Macomb County Public Works Office); Mr. Abdunnasser Almadhoun, Mr. Saju Sachi, and Mr. Larry Gilbert (NTH Consultants, Ltd.) conducted a virtual interview on October 6, 2020 with Mr. Nick Marra of Marra Services, Inc. to further evaluate the bidder's understanding of the project requirements. Mr. Marra was queried on various issues considered pertinent to his firm's ability to satisfactorily perform the Work, and his responses to the questions listed in the meeting agenda (attached) were in the affirmative and considered acceptable by the interviewers.

Based on our review of the proposal documents submitted by all four bidders (attached), we provide the following observations on the "as -read" low bidder – Marra Services, Inc.:

**October 14, 2020**

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- Marra Services, Inc. appears to have the appropriate financial, material, equipment, and personnel resources necessary to meet all contractual requirements
- Marra Services, Inc. appears to have a satisfactory record of performance and integrity
- Marra Services, Inc. appears to have a satisfactory work plan and preliminary project schedule.

One observation for consideration is the Marra Services' background statement indicating they have limited experience to perform certain portions of the required work, specifically in the area of large diameter slip lining work. The Contract documents require that the Contractors and/or relevant Subcontractors performing the lining work must have a proven record of performance in pipeline rehabilitation of diameters greater than 72 inches and a minimum length of 5,000 lineal feet. However, we note that while Marra does not possess the requisite slip lining experience, they have provided other forms of pipeline rehabilitation in their bid package.

In addition, the Financial Statement and List of Owned equipment included with the bid documents provides evidence that Marra Services is a relatively small contractor with limited, but reasonable resources in those areas. Summarily however, based on surety support by a large respected surety bond producer (F&D of Maryland) and an established industry reputation for quality work, we are able to provide a positive opinion of the potential for Marra Services, Inc. to satisfactorily complete this project.

As their Bid Proposal is deemed the lowest responsive, and responsible bid, and based on an overall evaluation, we recommend consideration of Marra Services, Inc. for the Award of this Contract.

cc: File

Attachments List:

Agenda; Post Bid Interview  
Figure No. 1, Bid Results Tabulation  
Bid Proposal, Marra Services, Inc.  
Bid Proposal, L. D'Agostini & Sons, Inc.  
Bid Proposal, Lanzo Trenchless Technologies, North  
Bid Proposal, Ric-Man construction, Inc.

## **Agenda Item No. 7**

### **Control Structure Lock-Out/Tag-Out Procedures**

**Agenda Item No. 8**

Guaranteed Maximum Price Amendment with  
Walsh Construction



## 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 Guaranteed Maximum Price Amendment Between OMIDDD and Walsh Construction for the NESPS Pumping and Electrical

**DATE:** October 21, 2020

Walsh Construction Inc. has developed the attached Guaranteed Maximum Price (GMP) and schedule for construction of the NESPS Pumping and Electrical Upgrades Project and CS-9 Gate Installation Project. A summary of the GMP is contained in Table 1.

**Table 1. GMPs for the NESPS Pumping and Electrical and CS-9 Gate Installation Projects**

<b>NESPS Pumping and Electrical GMP</b>		
<b>Category</b>	<b>Cost</b>	<b>Percentage of Total Cost</b>
Preconstruction Services	\$1,094,560	2.7%
Direct Bid Package Costs	\$27,667,245.47	66.7%
General Conditions	\$4,288,036.90	10.5%
General Requirements	\$1,541,947.45	3.8%
Allowances	\$1,106,000	2.7%
Bond/Insurances	\$561,000	1.4%
Contingency/ Risk Matrix	\$2,391,250	5.9%
CMAR Fee (5.75% Construction)	\$2,206,587.34	5.4%
<b>NESPS Subtotal (GMP)</b>	<b>\$40,856,627.46</b>	<b>100%</b>
<b>CS-9 Gate Installation GMP</b>		
<b>Category</b>	<b>Cost</b>	<b>Percentage of Total Cost</b>
Direct Bid Package Costs	\$2,793,570	84.6%
General Conditions	\$202,380	6.1%
General Requirements	\$33,393	1.0%
Allowances	\$45,000	1.4%
CMAR Fee (5.75% Construction)	\$176,774.70	5.4%
<b>CS-9 Subtotal (GMP)</b>	<b>\$3,251,117.72</b>	<b>100%</b>
	<b>Grand Total GMP</b>	<b>\$44,107,745.18</b>
	<b>Previous Change Orders</b>	<b>\$16,454,594.45</b>
	<b>Total Contract Increase</b>	<b>\$27,653,150.73</b>

From Table 1, the GMPs offered by Walsh are \$40,856,627.46 and \$3,251,117.72 for the NESPS Pumping and Electrical Upgrades and the CS-9 Gate Installation Projects, respectively. This results in a total GMP offer of \$44,107,745.18. The combined construction budget estimate for both projects was \$50,300,000. The GMP has been reviewed and subsequently is recommended for approval by the design team. Previously approved change orders totaled \$16,454,594.45 requiring a net increase of \$27,653,150.73 to Walsh's contract. In addition, the following contractual dates have been agreed to between OMIDDD and Walsh and are recommended by the design team:

**NESPS Pumping and Electrical Upgrades**

Substantial Completion: March 28, 2023

Final Completion: June 22, 2023

**CS-9 Gate Installation**

Substantial Completion: June 22, 2021

Final Completion: July 24, 2021

These dates are subject to liquidated damages in the amount of \$3,000/day for Substantial Completion and Final Completion.

**Requested Action: Approve the attached Guaranteed Maximum Price Amendment and Authorize the OMIDDD Secretary to sign for the NESPS Pumping and Electrical Upgrades Project in the amount of \$40,856,627.46 and for the CS-9 Gate Installation Project in the amount of \$3,251,117.72. (This results in a net increase to Walsh's contract in the amount of \$27,653,150.73).**

**Requested Action: Approve the contractual completion dates as follows:**

**NESPS Pumping and Electrical Upgrades**

Substantial Completion: March 28, 2023

Final Completion: June 22, 2023

**CS-9 Gate Installation**

Substantial Completion: June 22, 2021

Final Completion: July 24, 2021



# OMIDDD

NESPS Electrical and Mechanical Upgrades

Project No. 1-3020

Guaranteed Maximum Price

SUBMITTED BY:  
Walsh Construction Company II, LLC  
3031 West Grand Boulevard, Suite 640  
Detroit, Michigan 48202  
(313) 456-6500  
[www.walshgroup.com](http://www.walshgroup.com)



# Guaranteed Maximum Price Summary

**WALSH**

Guaranteed Maximum Price For:

## OMIDDD NORTHEAST SEWAGE PUMP STATION

PUMPING AND ELECTRICAL SYSTEM UPGRADES



**Oakland-Macomb Interceptor Drain Drainage District**

WRC PROJECT NO.: 1-3020







# TABLE OF CONTENTS

	SECTION
<b>GUARANTEED MAXIMUM PRICE SUMMARY.....</b>	<b>1</b>
<b>DIVISION COST BREAKDOWNS.....</b>	<b>2</b>
<b>ALLOWANCES.....</b>	<b>3</b>
<b>GENERAL REQUIREMENTS.....</b>	<b>4</b>
<b>GENERAL CONDITIONS &amp; WAGE RATES.....</b>	<b>5</b>
<b>RISK REGISTER / CONTIGNENCY.....</b>	<b>6</b>
<b>GMP QUALIFICATIONS.....</b>	<b>7</b>
<b>CONSTRUCTION SCHEDULE.....</b>	<b>8</b>



## Key Dates

<b>NESPS</b>	<b>Notice to Proceed.....</b>	<b>9/1/2020</b>
<b>NESPS</b>	<b>GMP Board Approval.....</b>	<b>10/22/2020</b>
<b>NESPS</b>	<b>Substantial Completion.....</b>	<b>3/28/2023</b>
<b>NESPS</b>	<b>Final Completion.....</b>	<b>6/22/2023</b>
<b>CS-9</b>	<b>Notice to Proceed.....</b>	<b>10/23/2020</b>
<b>CS-9</b>	<b>GMP Board Approval.....</b>	<b>10/22/2020</b>
<b>CS-9</b>	<b>Substantial Completion.....</b>	<b>6/22/2021</b>
<b>CS-9</b>	<b>Final Completion.....</b>	<b>7/24/2021</b>



## GMP CHANGE ORDER VALUE

<b>NESPS GUARANTEED MAXIMUM PRICE</b>	<b>\$ 40,856,627.46</b>
Current Contract Value with Change Orders 1-5	\$ 15,354,594.45
<b>Requested Change Order Value</b>	<b>\$ 25,502,033.01</b>

### Current NESPS Contract Value Breakdown:

Original	Pre-Construction Services Contract	\$ 570,000.00
OCO#1	Pre-Con Insurance	\$ 4,560.00
OCO#2	Pre-Con Extension	\$ 520,000.00
OCO#3	KGV & HPU	\$ 2,418,354.45
OCO#4	BP#2, 3, 4, and Mobilization Allowance	\$ 8,355,062.00
Bid Pack 2 - Pumps and Motors = \$6,103,462		
Bid Pack 3 - Electrical Switchgear = \$1,596,346		
Bid Pack 4 - Medium Volt Transformers = \$505,254		
Mobilization Allowance - Trailer City = \$150,000		
OCO#5	Foundation / WIFI	\$ 3,486,618.00
Bid Pack 6 - Site Excavation = \$1,337,843		
Bid Pack 7 - Structural Concrete = \$1,317,116		
Bid Pack 9 - Electrical Underground = \$694,989		
Bid Pack 10 - Underground Plumbing = \$84,494		
WIFI Repeater - \$52,176		
Current Contract Value of NESPS Upgrade		\$ 15,354,594.45

<b>CS-9 Guaranteed Maximum Price</b>	<b>\$ 3,251,117.72</b>
Current Contract Value via CO #2	\$ 1,100,000.00
<b>CS-9 Requested Change Order Value</b>	<b>\$ 2,151,117.72</b>

<u>GMP Owner Change Order Amount for Both NESPS and CS-9</u>	<b>\$ 27,653,150.73</b>
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<b>TOTAL PROJECT GMP</b>	<b>\$ 44,107,745.18</b>
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## **Agenda Item No. 9**

### Engineering Work Orders



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

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**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: METCO Engineering Work Order for Full Scope of Services Related to OMIDDD Flow Control Operations and Maintenance, NESPS Maintenance Responsibilities, and OMIDDD Project Support Duties**

**DATE: October 21, 2020**

METCO has been providing flow control support and maintenance coordination since 2016 under Contracts #4793, signed June 21, 2016 and Contract #5517, signed September 26, 2018. METCO has also been providing Northeast Sewage Pumping Station (NESPS) maintenance coordination and asset management services under contract #5517. After performing an audit of both contracts, it has become apparent that the full scope of services METCO provides is not articulated under either contract. Contract #4793 was generated by the anticipation of needing flow control operations (not necessarily maintenance) for the anticipated NI-EA work. Contract #5517 was largely geared toward providing support services related to maintenance coordination (and operations at that time) of the NESPS. In addition, METCO's responsibilities have now expanded with the addition of the new biotrickling filter at the NESPS and required project-based assistance, including LOTO, associated with the NI-EA Rehabilitation Projects, the NESPS Pumping and Electrical Upgrades project and the MIDDD lining projects. As such, METCO has prepared a full scope of services for OMIDDD flow control operations and control structure maintenance, NESPS maintenance, and project-based support. Specifically, METCO has offered the following base services in accordance with their attached October 16, 2020 proposal (please see the proposal and associated engineering work order for a more complete listing):

### **3.1 Continued Maintenance of the NESPS and Auxiliary Systems**

- A. Coordinate all corrective, predictive, routine and normal maintenance of facility equipment, buildings and grounds with the maintenance contractors and County operations staff.
- B. Provide monthly accounting, forecasting and general reporting of all maintenance activities and projects for aid in reporting to the OMIDDD Board and Great Lakes Water Authority (GLWA). Assist with any FOIA requests.
- C. Provide professional engineering services that support the operation and assure continued compliant operations.
- D. Manage all NESPS assets through NEXGEN. Incorporate new and updated equipment asset information and create work orders for repairs. Update required preventive maintenance schedules as needed.

### **3.2 Maintenance and Operation of the Odor Control System**

- A. Update Biotrickling Filter equipment inventory in NEXGEN
- B. Implement operational plan through sampling and monitoring
- C. Develop preventive and regular maintenance schedules
- D. Coordinate with Contractors to Implement Preventive/Corrective Maintenance
- E. Hold Coordination Meetings to review Issues

### **3.3 Maintenance – Project Construction Coordination**

Provide OMIDDD and NESPS Project Support During Construction Projects:

- A. Attend construction meetings with CM/Contractors as required to discuss and resolve any conflicts between maintenance schedule and construction activities.
- B. Review and recommend all shutdown requests. Coordinate requests from multiple contractors.
- C. Monitor and evaluate Contractor's work impact on NESPS and OMIDDD operations.
- D. Provide coordination during major electrical & pump system startup and testing.
- E. Review project equipment submittals for maintenance requirements such as critical spare parts, maintenance procedure details, etc.
- F. Add new or updated assets and maintenance schedules into NEXGEN, inputting all required information.

### **3.4. Flow Control, Management, Maintenance and Lock Out-Tag Out of OMIDDD Control Structures Including CS-9 and NI-EA Gates**

#### **A. Flow Control Management**

Operate all OMID flow control structures including Control Structure No. CS-9 (under construction), future NIEA related structures, Pump No. 4 and the wet well dewatering pump at the Northeast Sewage Pumping Station (NESPS) as follows:

1. Review the dry weather and wet weather flow information and identify the flow control requirements for OMID System.
2. Coordinate with OMIDD in executing the applicable flow control measures and operation schedule during the required inspection, maintenance and repair/lining activities in the OMID interceptor system under dry weather conditions.
3. Coordinate operation of the other MID facilities and GLWA to safely store and release sewage as requested by GLWA and/or MIDDD through normal permitting and as needed in emergencies and/or wet

- weather.
4. Monitor collect and document level and flow data and report on a daily basis to OMIDD and the Contractor.

**B. Lock out-Tag Out of Control Structures**

Provide the following services related to the Lock Out – Tag Out of the OMIDD Control Structures for the ongoing and for future OMIDD construction contact related to NIEA and CS-9 control structure upgrades/improvements:

1. Field coordinate with the Contractor regarding schedule of their construction activities and any special safety requirements of Contractor to be considered in the Flow Control tasks.
2. Validate system isolation and Lock Out-Tag Out prior to Contractor entry and exit of the Work Area and document process.
3. Monitor sewage levels during the LOTO period and communicate with contractor regarding system status.
4. Coordinate with the construction contractor to validate proper implementation of the Lock Out/Tag Out procedures by the contractor upon complete and safe exit of their crew from the work area inside Interceptor.
5. Upon completion of Lock Out-Tag Out, restore the control system to “Normal Mode of Operation” as required for the Flow Control Operation

**C. Maintenance of OMIDDD Control Structures**

1. Coordinate all corrective, predictive, routine and normal maintenance of the OMIDDD Control Structures with the maintenance contractors and County operations staff.
2. On a weekly basis, visually inspect all OMIDDD facilities to check for deficiencies or issues.
3. Continually monitor 24/7 the OMIDDD SCADA system for issues/faults.
4. Provide a monthly written report to OMIDDD Staff and Board on operations, capital, and major maintenance activities as applicable for the OMIDDD and NI-EA structures.
5. Provide professional engineering services that support the operation and assure continued compliant operations
6. Manage all OMIDDD assets through NEXGEN. Incorporate new and updated equipment asset information and create work orders for repairs. Update preventive and corrective maintenance programs into NEXGEN as needed.

METCO anticipates their remaining budget of approximately \$400,000 that would be related to the above scope will be exhausted by May 2021. The following presents proposed fees for the above services from May 2021 through December 2023:

Section 3.1 Continued Maintenance of the NESPS	\$470,056
Section 3.2 Maintenance and Operation of the Odor Control System	\$432,240
Section 3.3 Maintenance-Project Construction Coordination	\$314,234.80
Section 3.4.A Flow Control Management	\$189,600
Section 3.4.B Lock Out-Tag Out of Control Structure	\$224,574
Section 3.4 C Maintenance of OMIDDD Control Structures (est)	\$173,044.80
Allowance for Supplies	\$131,250
Total:	\$1,934,999.60

An Engineering Work Order has been generated that incorporates the above scope of work for an amount not to exceed \$1,934,999.60. These costs are already accounted for in the annual operations and maintenance budget. METCO can immediately perform these tasks upon approval.

**RECOMMENDED ACTION: Approve the attached Engineering Work Order to modify METCO's existing contract #5517 to provide the above services for a not to exceed amount of \$1,934,999.60. These funds have already been accounted for in the OMIDDD maintenance budget.**



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

One Public Works Drive

Phone: (248) 858-0958

Waterford, Michigan 48328-1907

No. -

**ENGINEERING WORK ORDER**

FOR: NESPS Maintenance and OMIDDD Maintenance and Operational Responsibilities

Amendment to Contract #5517 For Full Scope of Services

TO: METCO Services, Inc..

DATE: 10/13/20

**DESCRIPTION****Section A-Engineering Services and Section C-Compensation for Engineering Services, Item No. 6  
Additional Special Services and Exhibit C – Engineer's Proposal**

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the Northeast Sewage Pumping Station (NEPS) maintenance transition from the Great Lakes Water Authority to the Oakland-Macomb Interceptor Drain Drainage District that falls under the aforementioned sections of contract #5517. This EWO serves as your approval for compensation of the following additional services, as delineated in your October 16, 2020 proposal, including but not limited to:

**3.1 Continued Maintenance of the NESPS and Auxiliary Systems**

- A. Coordinate routine and normal maintenance of facility of facility equipment, buildings and grounds with the maintenance contractors and County operations staff.
- B. Coordinate all corrective, predictive, preventive maintenance and repair of facility equipment, buildings and grounds with the maintenance contractors and County operations staff.
- C. Coordinate and develop an emergency management and repair plan that will include identification of on- call contractors and GLWA resources to assist with emergency repairs.
- D. Provide, in forms acceptable to OMIDDD, monthly accounting, quarterly projections and an end-of-year forecast submitted by June 1<sup>st</sup> every year as to the status of the Maintenance account.
- E. Maintain and operate equipment at all facilities in such a manner so as not to void any warranties.
- F. Comply with all requests for information as required by OMIDDD, information requested by EPA, MDEQ or others as approved by the OMIDDD, audits (including financial audits), open records requests, FOIA assigned reporting, and all compliance reporting.
- G. Provide professional engineering services that support the operation and assure continued compliant operations.

**DESCRIPTION (Continued)**

- A. Coordinate with County Staff and Maintenance Contractors to provide all required materials, supplies and consumables, including, but not limited to:
  - 1. Chemicals
  - 2. Lubricants Minor spare parts
  - 3. Tools and maintenance equipment
  - 4. Office supplies
  - 5. Computer hardware and software
  - 6. All safety equipment
- B. Additional services required for the operation and maintenance of the pump station. These services will include:
  - 1. Management
  - 2. Computer system operation, maintenance, and document management
  - 3. Janitorial and custodial services
  - 4. Upkeep and maintenance of all facility buildings
  - 5. Purchasing
  - 6. Grounds maintenance and landscaping services
  - 7. Pump Station cleaning and sediment/grease disposal
- C. Maintenance of all structures of Managed Assets which includes:
  - 1. Pumps, Valves, Piping and equipment at the pump stations and managed assets.
  - 2. Mechanical systems at the pump station and managed assets
  - 3. Electrical systems at the pump station and managed assets.
  - 4. HVAC systems at the pump station
  - 5. All buildings and structures at the pump station
  - 6. All communication, computer and security systems at the pump station
  - 7. Coordinate with GLWA for Ovation Control System maintenance
- D. Utility bills will be paid for by OMIDDD.
- E. Provide a monthly written report to OMIDDD Staff and Board on operations, capital, and major maintenance activities at NESPS.
- F. Engineering support to design and implement all maintenance related upgrades on "As Needed" basis.
- G. Manage all NESPS assets through NEXGEN. Incorporate new and updated equipment asset information and create work orders for repairs.

**3.2 Maintenance and Operation of the Odor Control System****A. Update Inventory**

- 1. Update new assets associated with the Bio-Trickling Filtration (BTF) System, including pumps, fans, VFDs, scrubber vessel, nutrient tank, water booster pump, associated power and control panels.. Also included are the new ventilation fans and associated VFD and control panels.

**DESCRIPTION (Continued)****B. Asset Management System Update**

1. Update NEXGEN to include all assets associated with the bio-trickling filter.

**C. Implement Operational Plan**

1. Perform weekly sampling of the BTF discharge water pH, adjusting water delivery to the tank as recommended by the manufacturer to achieve the desired pH.
2. Visually inspect components for potential issues on a daily basis
3. Maintain log of all critical operational parameters.

**D. Develop Maintenance Schedule**

1. Develop preventive and regular maintenance schedule in accordance with manufacturer recommendations and as outlined in the O&M manual. Program schedules in NEXGEN.

**E. Coordinate to Implement Preventive/Corrective Maintenance**

1. Coordinate and mobilize the resources of various trade contractors to implement the maintenance plan per schedule. Prepare maintenance report for presenting to OMIDD.

**F. Coordination Meetings**

1. Hold periodic meetings with OMIDD to review the odor level measurements and any variance from the desired performance level. Develop recommendations for corrective measures

**3.3 Maintenance – Project Construction Coordination**

Provide OMIDDD and NESPS Project Support During Construction Projects:

1. Attend construction meetings with CM/Contractors as required to discuss and resolve any conflicts between maintenance schedule and construction activities.
2. Review and recommend all shutdown requests after assessing the impact to the operability level of the pump station as well as impacts to the maintenance schedule of the Pumping System. Coordinate requests from multiple contractors.
3. Monitor and evaluate Contractor's work impact on NESPS and OMIDDD operations. Ensure equipment is operationally ready for construction purposes to avoid delays.
4. Provide coordination during major electrical & pump system startup and testing. Assist and evaluate the impacts to the pump station operability level as desired by GLWA during the multiple start-ups and testing of the new pumping and electrical distribution and control system. Coordinate with System Control Center/GLWA during the start-up and testing of the system and ensure compliance with any specific GLWA/OMIDD operational/maintenance requirements.

**DESCRIPTION (Continued)**

5. Review project equipment submittals for maintenance requirements such as critical spare parts, maintenance procedure details, etc.
6. Add new or updated assets into NEXGEN, inputting all required information.

**3.4. Flow Control, Management, Maintenance and Lock Out-Tag Out of OMIDDD Control Structures Including CS-9 and NI-EA Gates**

**A. Flow Control Management**

Operate all OMID flow control structures including Control Structure No.CS-9 (under construction), future NIEA related structures, Pump No. 4 and the wet well dewatering pump at the Northeast Sewage Pumping Station (NESPS) as follows:

1. Review the dry weather and wet weather flow information and identify the flow control requirements for OMID System.
2. Coordinate with OMIDD in executing the applicable flow control measures and operation schedule during the required inspection, maintenance and repair/lining activities in the OMID interceptor system under dry weather conditions.
3. Coordinate operation of the other MID facilities to safely store and release sewage during the required inspection, maintenance and repair/lining activities in the OMID interceptor system during dry weather conditions. Provide system storage as requested by GLWA and/or MIDDD through normal permitting and as needed in emergencies and/or wet weather.
4. Monitor collect and document level and flow data and report on a daily basis to OMIDD and the Contractor.

**B. Lock out-Tag Out of Control Structures**

Provide the following services related to the Lock Out – Tag Out of the OMIDD Control Structures for the ongoing and for future OMIDD construction contact related to NIEA and CS-9 control structure upgrades/improvements:

1. Field coordinate with the Contractor regarding schedule of their construction activities and any special safety requirements of Contractor to be considered in the Flow Control tasks.
2. Validate system isolation and Lock Out-Tag Out prior to Contractor entry and exit of the Work Area. Confirm the Contractor has implemented the proper Lock Out-Tag Out procedures and document the valve positions in the form of photographs and a brief report to OMIDD highlighting any discrepancies or deviations.
3. Monitor Contractor activities through periodic communication with contractor. Request Contractor's schedule of activities with anticipated start and finish of their daily activities inside the OMIDD interceptor pipe.

**DESCRIPTION (Continued)**

4. Coordinate with the construction contractor to validate proper implementation of the Lock Out/Tag Out procedures by the contractor upon complete and safe exit of their crew from the work area inside Interceptor.
5. Upon completion of Lock Out-Tag Out, restore the control system to "Normal Mode of Operation" as required for the Flow Control Operation

**C. Maintenance of OMIDDD Control Structures**

1. Coordinate all corrective, predictive, routine and normal maintenance of the OMIDDD Control Structures with the maintenance contractors and County operations staff.
2. On a weekly basis, visually inspect all OMIDDD facilities to check for deficiencies or issues.
3. Continually monitor 24/7 the OMIDDD SCADA system for issues/faults.
4. Provide a monthly written report to OMIDDD Staff and Board on operations, capital, and major maintenance activities as applicable for the OMIDDD and NI-EA structures.
5. Provide professional engineering services that support the operation and assure continued compliant operations
6. Coordinate with County Staff and Maintenance Contractors to provide all required materials, supplies and consumables, including, but not limited to:
  - a. Chemicals
  - b. Lubricants
  - c. Minor spare parts
  - d. Tools and maintenance equipment
  - e. All safety equipment
7. Manage all OMIDDD assets through NEXGEN. Incorporate new and updated equipment asset information and create work orders for repairs. Update preventive and corrective maintenance programs into NEXGEN as needed.

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

Section 3.1 Continued Maintenance of the NESPS	\$470,056
Section 3.2 Maintenance and Operation of the Odor Control System	\$432,240
Section 3.3 Maintenance-Project Construction Coordination	\$314,234.80
Section 3.4.A Flow Control Management	\$189,600
Section 3.4.B Lock Out-Tag Out of Control Structure	\$224,574
Section 3.4 C Maintenance of OMIDDD Control Structures (est)	\$173,044.80
Allowance for Supplies	\$131,250
Total:	\$1,934,999.60

**Fees for this Engineering Work Order shall be billed on a time and material basis according to the contract standard fee and rate schedule as modified by your proposal. The total amount of the Engineering Services Agreement is to be increased by a not to exceed amount of \$1,934,999.60. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.**

**PREPARED**      **DATE:** \_\_\_\_\_**RECOMMENDED**      **DATE:** \_\_\_\_\_

---

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

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

**ACCEPTED**      **DATE:** \_\_\_\_\_**APPROVED**      **DATE:** \_\_\_\_\_

---

By: Raj Vijayendran, P.E.  
President  
METCO Services, Inc.

---

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

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



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

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**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 Construction Contract Administration Services Related to the NI-EA  
Contract No. 1 PCI-4 Rehabilitation and the Control Structure No. 9 Gate Installation  
Projects**

**DATE: October 21, 2020**

The NI-EA Contract No.1 PCI-4 Rehabilitation project has been recommended to the OMIDDD Board to be awarded to Marra Services, Inc (Marra). In addition, the CS-9 Gate Installation project scope and cost has been recommended to be awarded to Walsh Construction. Provided the Board is approving of these measures, it is prudent to obtain construction contract administration CCA services to support the construction phase of both of these projects. As NTH was the lead designer for both projects, we believe it is further prudent for them to provide the CCA services. NTH has already prepared a proposal, dated September 4, 2020, that outlines the specific scope of CCA services as follows:

1. Provide a Construction Contract Administrator and staff to oversee all CCA services. The Construction Contract Administrator's role during construction will be to manage and oversee project field engineering staff and coordinate day-to-day field engineering and contract administration services with representatives of the OMIDDD.
2. Provide a Resident Field Engineer (RFE) to coordinate the field observation staff and handle the day-to-day field operations including as needed quality control testing services, coordination with the flow control manager, construction issues and instrumentation monitoring.
3. Provide document management and control services including submittals, claims, RFIs and other correspondences.
4. At each proposed shaft and gate site location, provide field representation to observe and document the work, perform quality control testing of materials used, provide instrumentation survey in support of field services, ensure the contractor is working in accordance with their approved schedule and contract requirements, and issue non-compliance notices as appropriate.
5. For the in-tunnel rehabilitation and lining operations, provide a tunnel inspector throughout the duration of lining activities.
6. During construction, perform as-needed site visits by design team members to evaluate actual conditions encountered relative to shaft construction, determine the extent of tunnel areas to be repaired, and the extent of grouting required as well as other issues that may

develop during construction.

7. Perform shop drawing review for the access structure to be constructed including all standard submittals.
8. Coordinate and conduct field quality control testing services to document that materials used in construction meet project requirements.
9. Coordinate, install, monitor, and conduct the geotechnical instrumentation program included in the design documents.
10. Perform site visits to the pipe lining material manufacturing plants to document that materials used in construction meet project requirements.
11. Manage all correspondence among the Owner, Engineer, and Contractor.
12. 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.
13. Review notifications of differing site conditions by the Contractor, perform an initial evaluation of the condition encountered, compare it to contract information, and, if required, recommend appropriate additional investigative services (if needed) to promptly evaluate and assess the condition and keep Contractor standby time to a minimum.
14. Coordinate flow control activities through the project Flow Control Manager.
15. Review Contractor progress payment requests and provide recommendations to the OMIDDD Board relative to actual work progress, stored materials, as well as any delays or hold backs that may be appropriate. Prepare pay estimate documentation as necessary.
16. Work with OMIDDD's schedule consultant, Project Management Associates (PMA) to evaluate the contractor's baseline schedule, and monthly update schedules. Work with OMIDDD and PMA to coordinate a unified monthly response.
17. Using the Contractor's submittals/shop drawings as a basis, review and approve as-built record drawings from the Contractor.

NTH has evaluated both Marra's and Walsh's preliminary schedules and found them to be consistent with their assumed construction time periods in the proposal. The total cost to provide for the above scope of work is \$2,483,415 and can be paid for within the existing overall NI-EA project budget already established by the OMIDDD Board. The attached Engineering Work Order has been generated for the above scope of services and cost. NTH is ready to immediately begin these services upon approval of the Board.

**RECOMMENDED ACTION: Approve the attached Engineering Work Order to provide the above CCA services related to the NI-EA Contract No. 1 PCI-4 Rehabilitation Project and CS-9 Gate Installation Project for a not to exceed amount of \$2,483,415. Funding for these services can be accommodated for within the project budget.**



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

One Public Works Drive

Phone: (248) 858-0958

Waterford, Michigan 48328-1907

No. -

**ENGINEERING WORK ORDER**

FOR: OMID NI-EA Contract No.1 PCI-4 Rehabilitation Project and SC-9 Gate Installation Project  
Amendment to Contract #2603 For CCA Services

TO: NTH Consultants, Ltd. DATE: October 14, 2020

**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 OMID NI-EA Contract No. 1 PCI-4 Rehabilitation Project that falls under the aforementioned sections of contract #2603. This EWO serves as your approval for compensation of the following construction contract administration additional services as delineated in your September 4, 2020 proposal:

1. Provide a Construction Contract Administrator and staff to oversee all CCA services. The Construction Contract Administrator's role during construction will be to manage and oversee project field engineering staff and coordinate day-to-day field engineering and contract administration services with representatives of the OMIDDD. This individual will be responsible for maintaining records of all construction and providing the initial response to issues raised by the Contractors. He will conduct bi-weekly progress meetings with the Contractor and perform a monthly review of the Contractor's schedule progress. He will work closely with the representatives of the OMIDDD, keep them informed on project issues and input or action required by those representatives. He will also supervise the Resident Engineer.
2. Provide a Resident Field Engineer (RFE) to coordinate the field observation staff and handle the day-to-day field operations including as needed quality control testing services and instrumentation monitoring. The RFE will assist Mr. Gilbert in coordinating a response to incoming correspondence, shop drawing reviews, daily field report review, coordination of the daily activities of all field staff, keeping abreast of daily flow control operations by the Flow Control Manager (FCM), and performing related administrative tasks.
3. Provide document management and control services. This will include part-time submittal/document control personnel to manage all correspondence among the Owner, Engineer, and Contractor using a cloud-based document management software provided by others.

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

Page 1 of 3

10/1/13

**DESCRIPTION (cont'd)**

4. At each proposed shaft and gate site location, provide field representation to observe and document the work, perform quality control testing of materials used, provide instrumentation survey in support of field services, ensure the contractor is working in accordance with their approved schedule and contract requirements, and issue non-compliance notices as appropriate.
5. For the in-tunnel rehabilitation and lining operations, provide a tunnel inspector throughout the duration of lining activities.
6. During construction, perform as-needed site visits by design team members to evaluate actual conditions encountered relative to shaft construction, determine the extent of tunnel areas to be repaired, and the extent of grouting required as well as other issues that may develop during construction.
7. Perform shop drawing review for the access structure to be constructed including all standard submittals. Significant deviations from the design under the "Contractor Proposed Substitutions" provision that require significant review effort will be considered additional services not included in this EWO.
8. Coordinate and conduct field quality control testing services to document that materials used in construction meet project requirements.
9. Coordinate, install, monitor, and conduct the geotechnical instrumentation program included in the design documents.
10. Perform site visits to the pipe lining material manufacturing plants to document that materials used in construction meet project requirements.
11. Manage all correspondence among the Owner, Engineer, and Contractor.
12. 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.
13. Review notifications of differing site conditions by the Contractor, perform an initial evaluation of the condition encountered, compare it to contract information, and, if required, recommend appropriate additional investigative services (if needed) to promptly evaluate and assess the condition and keep Contractor standby time to a minimum. Significant investigative effort will be considered an additional service and is not included in this EWO. Notify the design staff of any issues that require additional investigation or evaluation from previously assumed or documented conditions and coordinate their evaluation and response.
14. Coordinate flow control activities through the project Flow Control Manager.
15. Review Contractor progress payment requests and provide recommendations to the OMIDDD Board relative to actual work progress, stored materials, as well as any delays or hold backs that may be appropriate. Prepare pay estimate documentation as necessary.
16. Work with OMIDDD's schedule consultant, Project Management Associates (PMA) to evaluate the contractor's baseline schedule, and monthly update schedules. Work with OMIDDD and PMA to coordinate a unified monthly response.
17. Using the Contractor's submittals/shop drawings as a basis, review and approve as-built record drawings from the Contractor.

**DESCRIPTION (cont'd)**

**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 \$2,483,415. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.**

**PREPARED**      **DATE:** \_\_\_\_\_**RECOMMENDED**      **DATE:** \_\_\_\_\_

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

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

**ACCEPTED**      **DATE:** \_\_\_\_\_**APPROVED**      **DATE:** \_\_\_\_\_

By: Keith Swaffar, P.E.  
Chairman  
NTH Consultants, Ltd.

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

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



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

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

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

**SUBJECT:** Approval of ASI EWO for NESPS Mechanical and Electrical Upgrades Project  
Construction Contract Administration Services

**DATE:** October 21, 2020

A Guaranteed Maximum Price (GMP) between the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) and Walsh Construction has been recommended to the OMIDDD Board for approval for the NESPS Pumping and Electrical Upgrades Project. Provided the Board is approving of this measure, the construction phase is effectively fully underway. As such, we believe it is prudent to obtain construction contract administration (CCA services) to support the construction phase of this project, which is expected to take 2.5 years. As ASI was the lead designer for this project, we believe it is further prudent for them to provide the CCA services with support from NTH Consultants, METCO Services and FK Engineering. Accordingly, ASI has prepared a proposal, dated October 15, 2020, that outlines the specific scope of the CCA services as follows:

1. Review assistance with Bidding.
2. Review of technical submittals.
3. Provide responses to Request For Information (RFIs).
4. Provide engineering design changes or additional details as required.
5. Attend weekly and monthly progress meetings.
6. Provide assistance in Contract Administrative duties.
7. Provide assistance in QA/QC.
8. Conduct site visits and inspection by the design team.
9. Attend witness testing of major equipment.
10. Assist in start-up testing and certifications.
11. Review and coordination of O&M Manuals.
12. Assist in O&M Training.
13. Produce Record Drawings.
14. Provide monthly updates to the OMIDDD Board for all active Contracts (FKE)

NTH Consultants will specifically provide the following services:

- Provide overall Construction Contract Administration oversight (Larry Gilbert)
- Provide Document Management Services, including input into NEXGEN (Abdulnasser Almadhoun)
- Provide claim and change order review on behalf of the Owner

- Provide coordination between active OMIDDD contracts
- Provide progress payment review
- Provide baseline and monthly update schedule review.

The associated fees by firm to perform the above additional tasks are as follows:

<b>Applied Science, Inc.:</b>	<b>\$819,445</b>
<b>METCO Services, Inc.:</b>	<b>\$470,644</b>
<b>NTH Consultants:</b>	<b>\$1,039,150</b>
<b>FK Engineering:</b>	<b><u>\$114,023</u></b>
<b>Total:</b>	<b>\$2,443,262</b>

An Engineering Work Order has been created to include the above scope of work and associated fees to ASI's existing contract #5470. ASI and their subconsultants are prepared to begin this work immediately.

**Requested Action: Approve the attached engineering work order to increase ASI's contract #5470 by an amount not to exceed \$2,443,262 for CCA services related to the NESPS Pumping and Electrical Upgrades Project.**

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

One Public Works Drive

Phone: (248) 858-0958

Waterford, Michigan 48328-1907

No. -

**ENGINEERING WORK ORDER**

FOR: OMID NESPS Pumping and Electrical Upgrades Project

Amendment to Contract #5470 For CCA Services

TO: Applied Science Inc. (ASI)

DATE: 10/14/20

**DESCRIPTION****Section A-Engineering Services and Section C Compensation for Engineering Services, Item No. Additional Special Services and Exhibit C – Engineer's Proposal**

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the OMID NESPS Mechanical and Electrical Upgrades Project that falls under the aforementioned sections of contract #5470. This EWO serves as your approval for compensation of the following construction contract administration services needed for the NESPS Pumping and Electrical Upgrades Project as delineated in your attached October 15, 2020 proposal:

In conjunction with NTH Consultants and METCO Services Inc., provide the following services:

1. Review assistance with Bidding.
2. Review of technical submittals.
3. Provide responses to Request For Information (RFIs).
4. Provide engineering design changes or additional details as required.
5. Attend weekly and monthly progress meetings.
6. Provide assistance in Contract Administrative duties.
7. Provide assistance in QA/QC.
8. Conduct site visits and inspection by the design team.
9. Attend witness testing of major equipment.
10. Assist in start-up testing and certifications.
11. Review and coordination of O&M Manuals.
12. Assist in O&M Training.
13. Produce Record Drawings.
14. Provide monthly updates to the OMIDDD Board for all active Contracts (FKE)

**DESCRIPTION (cont'd)**

NTH Consultants will specifically provide the following services:

- Provide overall Construction Contract Administration oversight (Larry Gilbert)
- Provide Document Management Services, including input into NEXGEN (Abdulnasser Alhmadhoun)
- Provide claim and change order review on behalf of the Owner
- Provide coordination between active OMIDDD contracts
- Provide progress payment review
- Provide baseline and monthly update schedule review.

The associated fee breakdown by firm to perform the above tasks are as follows:

Applied Science, Inc.:	\$819,445
METCO Services, Inc.:	\$470,644
NTH Consultants:	\$1,039,150
FK Engineering:	<u>\$114,023</u>
Total:	\$2,443,262

**Fees for this Engineering Work Order shall be billed on a time and material basis according to the rate schedules included with the proposal. Subconsultants and expenses are allotted a markup of 5%. The total amount of the Engineering Services Agreement is to be increased by a not to exceed amount of \$2,443,262. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.**

**PREPARED**      **DATE:** \_\_\_\_\_**RECOMMENDED**      **DATE:** \_\_\_\_\_

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

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

**ACCEPTED**      **DATE:** \_\_\_\_\_**APPROVED**      **DATE:** \_\_\_\_\_

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By: John Michalski, P.E.  
Vice President  
Applied Science, Inc..

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

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



## **Agenda Item No. 10**

### **Change Order**

**CHANGE ORDER NO. 2**

Oakland-Macomb Interceptor Drain Drainage District Board  
 For Construction of the OMID Flow Control Improvements Project-Roof Modifications Under Contract #5817)  
 Located in Macomb County, MI

CONTRACTOR: CSM Mechanical, LLC  
 Address: 7400 Hickory Valley Road  
 Fenton, MI 48430

Authorization for Changes In and Extras to Contract

Change Order No: 2 Date: 10/13/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	<b><u>LOCATION:</u></b>					
A	Contol Structure (CS) 5 (OMID)					
B	Contol Structure (CS) 6 (OMID)					
C/D/E	Control Structure (CS) 7 (OMID)					
	<b><u>DESCRIPTION:</u></b>					
	<b>(Change/Add):</b>					
A	CS-5 access hatch modification during installation.	LS	1.0	\$730.25	\$730.25	-
B	CS-6 frame screw anchor corrections during installation	LS	1.0	\$1,159.36	\$1,159.36	-
C	CS-7 required roof modification post design	LS	1.0	\$2,414.84	\$2,414.84	-
D	CS-7 jersey barricades for traffic control during installation	LS	1.0	\$3,484.36	\$3,484.36	-
E	CS-7 concrete saw cutting during installation	LS	1.0	\$4,507.80	\$4,507.80	-
	<b><u>REASON:</u></b>					
A	Upon excavation of the existing panel and adjacent existing manholes it was discovered that the manholes were closer together than accounted for in design. Minor field modifications were required to fit the concrete riser between the existing manholes.					
B	CS-6 consisted of 6 panels that were secured to a center beam and the rim of the frame using flat-head screws. CSM had attempted to removed and install screws and noted that the flat-head screws did not allow enough to torque to secure the frame without stripping the screw. OCWRC directed CSM to replace the flathead screws with allen-head screws and rethread the provided holes.					

Change Order

CONTRACTOR: CSM Mechanical, LLC  
 Address: 7400 Hickory Valley Road  
 Fenton, MI 48430

Authorization for Changes In and Extras to Contract

Change Order No: 2 Date: 10/13/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
C	The dimensioning of the CS-7 precast structure had to be changed after field measurements revealed the as-designed structure would not fit correctly on the existing roof slab. The design revisions included increasing the width of the panel and increasing the height of the riser. This was discovered after CSM had submitted their quote.					
D	The City of Sterling Heights (City) required jersey barriers be placed on the roadway as part of the permitted traffic control for the CS-7 construction site. The barriers were not on the design traffic control drawings nor was it known at the time of CSM's quote that they would be required by the City.					
E	After excavation of the roof slab occurred, it was determined that the slab scheduled to be removed was wedged into the roof. Saw cutting around the slab was required in order to free the slab for lifting. While CSM had to determine the means and methods to remove the slab, saw cutting was not called out for specifically in the drawings. As such, a split of costs for the saw cutting and associated delay was negotiated.					
				Item A Total	\$12,296.61	\$0.00
				Total	\$12,296.61	

Change Order

CHANGE ORDER NO. 2

Oakland-Macomb Interceptor Drain Drainage District Board  
For Construction of the OMID Flow Control Improvements Project-Roof Modifications Under Contract #5817)

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

Recommended by: \_\_\_\_\_ Date: \_\_\_\_\_  
FK Engineering Fritz Klingler, P.E., 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: CSM Mechanical, 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. 2 was approved by the Drainage Board on: \_\_\_\_\_ Date: \_\_\_\_\_

## **Agenda Item No. 11**

### **Construction Estimate**

**OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT  
OMIDDD NESPS Dry Well Elevator Modernization  
Detroit, Wayne County, Michigan**

Regular Construction Estimate No. 2

August 31, 2020 to September 30, 2020

Department No.: 61010101  
Fund No.: 82912  
Project No.: 1-3018

Account No.: 731472  
Program No.: 149667  
Activity: STD

Contractor:  
Detroit Elevator Co.  
2121 Burdette  
Ferndale, MI 48220

Account No.: 6076  
Date of Contract: August 1, 2019  
Completion Date: N/A  
Extended to: N/A

Original Contract Amount: \$262,838.00

Previous Change Orders: \$0.00  
Numbers: (none)

Change Orders This Estimate: \$0.00  
Numbers: (none)

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$262,838.00

Sub-Total To Date: (Sheet 3 of 3 Column 7) \$246,804.20

Less Deductions: (Sheet 3 of 3 Column 7) \$0.00

Gross Estimate: (Work in Place) 93.90% \$246,804.20

Less Amount Reserved: (10% of 1/2 Adjusted Contract Amount) \$13,141.90

Total Amount Allowed To Date: \$233,662.30

Less Previous Estimates: \$154,838.60

Net Payment Request To Be Paid To Contractor: \$78,823.70

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$ 16,033.80 Accounting Auditor:

Amount To Be Reserved (From Above) \$13,141.90

Less Previous Transfers To Reserve: \$13,141.90

Amount of Current Transfer: \$0.00

Prepared by: Joel Brown  
Joel Brown, P.E. - OCWRC Assistant Chief Engineer

Date: 10/9/20

Recommended by: Terry Moore  
Terry Moore, METCO- Consulting Engineer

Date: \_\_\_\_\_

Approved by: Stephen Downing  
Stephen Downing - Construction and Maintenance Manager, MCPWO

Date: \_\_\_\_\_

Approved For Payment: Sid Lockhart  
Sid Lockhart, P.E. - Special Projects Manager, OCWRC

Date: \_\_\_\_\_

Regular Construction Estimate No. 2

Approved By Board On: \_\_\_\_\_

**Agenda Item No. 12**

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, FK Engineering Assoc.  
S. Sachidanandan, P.E., L. Gilbert, P.E., NTH Consultants, Ltd.  
J. Michalski, P.E., Applied Science, Inc.; T. Moore, Metco  
J. Matteo, P.E., Jacobs Engineering, Inc.

## October 21, 2020 OMIDDD Board Meeting

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The following provides a status update as of the writing of this report (October 9, 2020) 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 – Ongoing:

Engineering Consultant: Jacobs Engineering

#### Project Budget Summary (including EWO No. 2):

- |  |              |
|--|--------------|
| • Adjusted Project Budget (including Fan Testing Allowance of \$60,000): | \$531,447.00 |
| • Total Spent (through Sept. 2020):                                      | \$487,612.44 |
| • Remaining Budget (through Sept. 2020):                                 | \$43,834.56  |

#### Milestone Schedule Summary:

- Submitted draft report in January 2020.
- Completed additional analyses and other work elements requested in EWO No. 2.
- Finalizing study report, including additional requested analyses; see below, to be submitted in October 2020.

#### Status of Major Project Tasks:

- Finalized WATS state-of-the-art sewer process model to reflect future lining and flow control operating conditions, including storage/release sequences for selected OMID repair reaches.
- Finalized the conceptual design of permanent vapor-phase and possible temporary liquid-phase odor/corrosion control alternatives.
- Prepared conceptual layouts of several mitigation facilities.
- Preparing final study report to be issued in October 2020.



## October 21, 2020 OMIDDD Board Meeting

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### SRF Segment 2 Status:

#### Contract 3 (Base Contract) – Complete, Closeout Pending

**Construction Amt Invoiced:** \$18,011,426.41, as adjusted by C.O. 11.  
**Schedule Status:** Complete July 31, 2014; Overall Contract closeout will be combined with closeout for NESPS Discharge Chamber Emergency Repairs (CO 2-E, et al).

#### Contract 3-2E thru 3-2J (NESPS Gatehouse): Substantially Complete

**Construction Amt Invoiced:** \$5,151,543.52 Invoiced to date including Change Order 2E through 2J.  
**Schedule Status:** Substantially Complete on 11/25/17, with additional Gatehouse lining work performed under Change Order 2-I and completed on March 31, 2019.

East side Tnemec repairs are complete; west side repairs remain delayed as a result of Pump 1 damage incurred in January 2020 during testing. The pump is now repaired and operating normally. The Tnemec Repairs continue to be on hold, however, pending availability of Flow Control measures for gatehouse isolation. The Segment 2, Contract 3 (Base Contract and Emergency Gatehouse Repairs) remains open pending completion of these repairs.



*Delivery of Pump No.1 to the site.*

### SRF Segment 3 Status:

#### Contract 4: Complete

### SRF Segment 4 Status:

#### Contract 5A/5B – Complete, Administrative Closeout Pending:

**Construction Amount Invoiced (C5A/B):** \$11,865,520.08 corresponding to 100% of the revised final contract amount, through 6/30/17.  
**Schedule Status:** Completed 12/31/16, on time, based on revised completion, as established by Change Order.

- 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

# October 21, 2020 OMIDDD Board Meeting

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## NESPS Odor/Corrosion Mitigation Sys (No Segment or Contract No.)

**Engineering Consultant:** LG Design, Inc., subsidiary of Jacobs Engineering

**Prime Construction Contractor:** CSM Mechanical, LLC

### Project Budget Summary:

• BioAir Solutions, LLC for Bio-Trickling Filter (BTF) Fabrication:	\$816,570.00
• CSM Mechanical, LLC (Original Contract Value):	\$3,783,390.00
• CSM Mechanical, LLC (Adjusted Contract Value w/ CO No. 1 through CO No. 8):	\$4,198,799.59
• CSM Total Earned, Less Retainage, through 8/31/2020 (Pay App No.13):	\$4,006,078.88
• CSM Balance to Finish, Including Retainage (PA No. 13, work through 8/2020):	\$192,721.02
• Jacobs Budget (Design and CA/RPR, per EWO No. 3):	\$1,272,470.46
• Remaining Jacobs Budget (through Sept. 2020):	\$152,562.24

### Milestone Schedule Summary:

- Notice-to-Proceed letter to CSM dated August 1, 2019.
- Installation of the Bio Trickling Filter (BTF) at NESPS: Interim Substantial Completion, per Contract Amendment, was April 18, 2020, with Final Completion of August 28, 2020. The actual Final Completion date will be delayed due to COVID-19 issues (travel restrictions, etc.) and the addition of extra work items commencing late in the project but is expected to be October 31, 2020.
- BTF Acclimation, Start-up and Testing: Currently in progress; the majority of these items are considered to be accomplished.
- HVAC Improvements Substantial Completion: June 28, 2020; complete.

### Status of Major Project Tasks:

- The installation of the biotrickling filter (BTF), odor control fans, odorous air ducting, and related components have been completed. The system appears to be performing as anticipated. Requested extra work and punchlist items remain outstanding related to the biotrickling filter and are expected to be completed by the end of October, 2020.
- Electrical and controls wiring installation activities have been completed inside the station to provide power and controls to various components of the new HVAC system. Startup and commissioning of the HVAC system has commenced, and only minor final adjustments remain as the system continues in normal operation.

## October 21, 2020 OMIDDD Board Meeting

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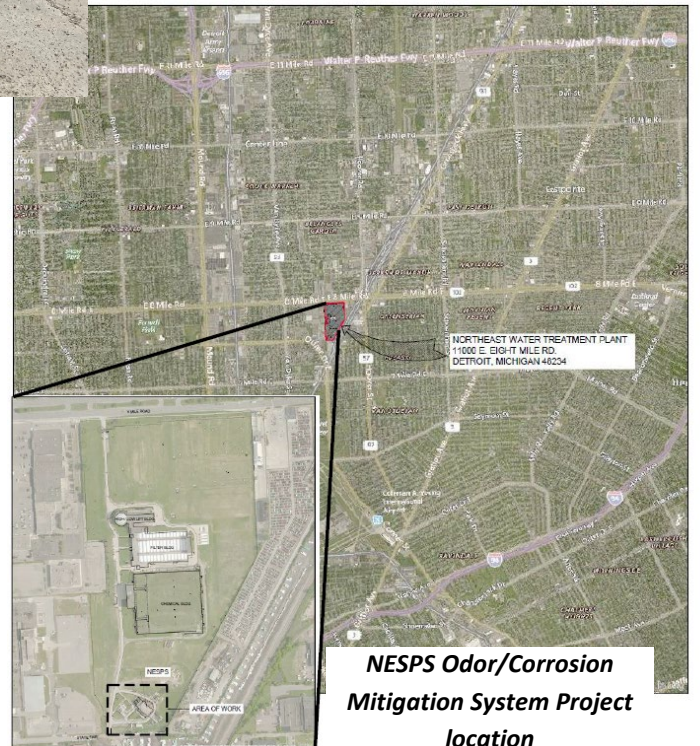
*Biotrickling filter prepared and ready for performance testing activities.*

- The Wet Well Crane Structural Frame has been blast cleaned and re-coated with new paint. Installation of the new 4-ton wet well crane mechanism has been completed and the unit is now fully functional. The addition of a partial crane roof shelter has been completed. Cleaning and painting of the wet well hatch covers will occur following completion of minor steel trim repairs.
- Wet well supply air make-up air units have both been installed, integrated into the HVAC controls system, and are now fully operational. Both wet well exhaust fans and associated FRP exhaust duct work have been placed above the wet well roof and are operational. Final adjusting activities remain for air balancing of the wet well HVAC system, and is expected to be completed in October.
- All dry well HVAC components have been installed including power and controls and are now operational. HVAC control system components including the master control panel, gas detection panel, and associated strobes, beacons, instruments, and devices have arrived on site and all have been installed. These components have been integrated into one fully functioning HVAC control system (including SCADA) and final startup and commissioning is complete; however, minor punch list items remain on the HVAC system controls.
- Site grading for the BTF pad and adjacent areas have been completed; grade has been set and hydroseeding has been completed and turf growth established, with final adjustments to take place during punch list activities. Final aggregate base and concrete paving work will be deleted from the odor/corrosion control project and added to the upcoming pump and electrical rehabilitation project.

## October 21, 2020 OMIDDD Board Meeting



*Finish coating and replacement of 4-Ton crane above the wet well.*



**NESPS Odor/Corrosion  
Mitigation System Project  
location**



## October 21, 2020 OMIDDD Board Meeting

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**New Equipment Rack Fabricated and Delivered to NESPS site**

# October 21, 2020 OMIDDD Board Meeting

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## NESPS & OMID Maintenance & Repairs Status:

**Amt Invoiced:** \$140,481 thru September out of current \$353,000 ASI engineering budget; Does not include Metco budget for ongoing maintenance.

**Schedule Status:** Ongoing

**Advance modifications to facilitate the “Emergency Contingency Plan” are underway to allow pumping in the event of total power loss at NESPS or other catastrophic failure in the system:**

- Drawings for modifications to accommodate upstream emergency pumping have been issued for procurement of contractors. Negotiation with contractors is in progress.
- Plan to energize OMID Pump 4 in event of total power loss is complete; A demonstration of the portable generator was completed previously and start of work is pending.
- Advanced emergency plan document to include pumping details and traffic control from pump out locations has been reviewed by technical team; awaiting completion of manhole and electrical modifications to finalize the document.

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

- Mechanical and Electrical corrective/preventative maintenance schedules continue to proceed without problem. Shutdown coordination with GLWA Operations for such tasks is working well.
- Monthly Maintenance Contractor meeting held. General maintenance topics discussed.
- Working with GLWA Systems Control on a more balanced approach to Sanitary Pump run time.
- Coordination between GLWA, MID, NESPS Odor/Corrosion Control Project (Bio Filter) has not affected station operations nor hindered performance or abilities to meet demands.

**Overall Station Performance Report:**

- Sanitary Pumps #1, #2, #4, and #6 ready for duty. (540 CFS Capacity).
- Sanitary Pump #5 Out of Service as of Sept 14. Maintenance revealed Sanitary Pump #5 Exciter damage. Spare unit tested ok...Installed Oct 7th ready to be tested.
- Bi-monthly Sanitary Pump Motor Maintenance complete.
- Service Elevator rehabilitation continues to move forward without any complications. 95 % complete.
- 4 Ton Outdoor Crane returned to service. 25 Ton Indoor Crane scheduled for Bi-annual inspection slated for the week of Oct 12th.
- Removal/Repair of the Dewatering Pump and Wet-well isolation knife gates began Oct 9th. The knife gates were successfully removed and replaced using the services of an underwater dive team to help expedite this task. The dewatering pump removal will commence in the near future for shop service inspection and repair.
- Stand-by Generator Programmable Logic Controller (PLC) Rehabilitation. Baseline testing underway.
- Stand-by Generator Diesel Tank and Fuel Line rehab project. Work start Wednesday Oct 14th.
- In regard to Bio Filter Performance, H<sub>2</sub>S, PH levels are monitored and recorded daily, PH feedback indicative of an active Bio removal rate per Bio Air. Readings are reported to Bio-Air regularly. Follow up visit by Bio Air representative is the process of being planned.

## October 21, 2020 OMIDDD Board Meeting

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- Debris (ragging) starting to impact flow through the bar-screens. De-ragging operations took place Sept 21st and Oct 7th. More work needed.
- Odor complaint received Oct 8th. High winds and open wet well due to de-ragging operations created abnormal pump station conditions. Reported conditions to (EGLE) Hala Baroudi.
- Overall General Housekeeping tasks in order. Overall Grounds keeping tasks are also in order.

### OMID Control Structure Upgrades Status:

**Amt Invoiced:** \$52,728 Engineering services to date; Total design and construction budget currently established as \$500,000 (including contingencies and admin/legal).

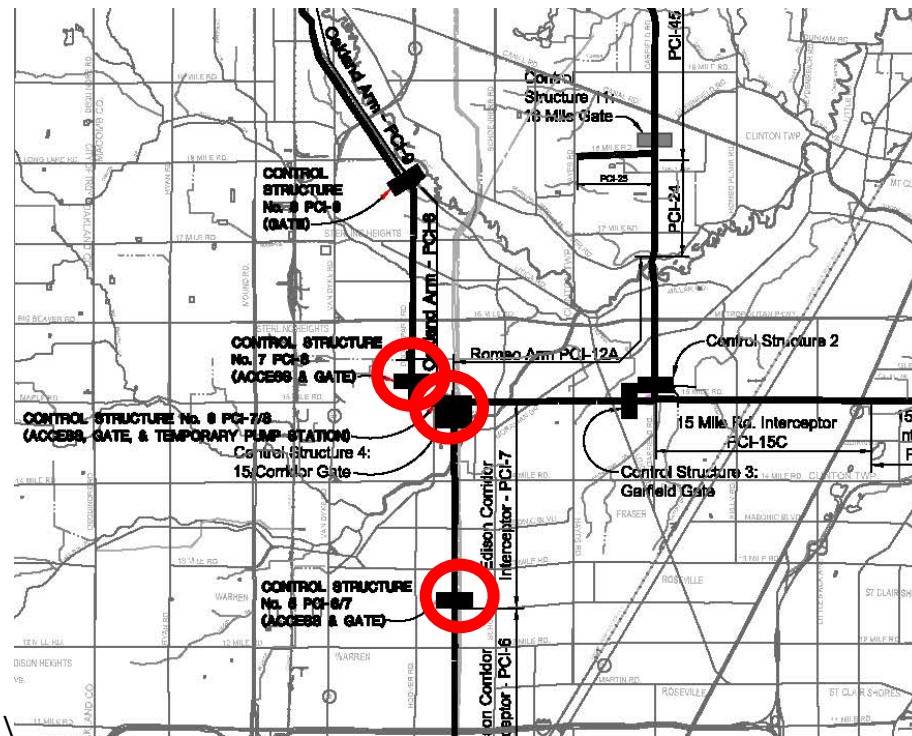
**Schedule Status:** Construction substantially complete 8/14/20

- Hatch and Access improvements complete. As-built drawings for controls structure access improvements have been completed.
- With respect to CS-5 mechanical, outstanding repairs have been completed by Hesco and gate is operational. Position indicators installed Oct 7th. A limit switch found unresponsive during checkout after installation. HESCO tasked with the fix.
- With respect to CS-6 mechanical, HESCO improvements, inspections subject to delay at this time. Gate operations and feedback from sensing devices are good. Gate is in standby mode ready for service. Pump-station housekeeping in good condition. Pump station in standby mode and is ready for service.
- With respect to CS-7 mechanical, HESCO improvements on hold pending LOTO agreement.
- Hesco reports that CS-8 is functional but in various stages of deterioration per HESCO condition assessment. Most components are at end of life status. Critical spare parts and long lead items are a subject of attention. HESCO has developed an inventory list.
- MCE has drafted Programmable Logic Controller (PLC) changes for gate operation as well as communications upgrades.
- Once position indicators are repaired, and level sensors are installed, ASI testing will be completed.

# October 21, 2020 OMIDDD Board Meeting

The line item schedule and budgets are summarized:

Work Item/ Milestone		Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractors)	Estimated Delivery Date
1	Draft PLC Mods by Metco, MCE, ASI			5/8/2019
2	Field Investigations (roof measurements, etc.)		TBD	5/30/2019
3	CS level sensors design (Metco)		TBD	7/29/2019
4	Comm. System Improvements (Metco)		TBD	8/31/2019
3	Test and implement			4/1/2020
4	50% Design Package			6/20/2019
5	95%, 100% Design Package			9/9/2019
6	Receive Bid(s) for cover mods			11/10/2019
7	Contract Award and NTP for cover mods			12/10/2019
8	Subtotal – Design	\$9,000 (ASI)		
9	PCI-5 Gate Repairs and final install of level sensors	TBD	TBD	3/31/2020
10	Substantial Completion of Hatch Construction			8/15/2020
11	Final Testing and Approval of PLC Mods	TBD	TBD	TBD
12	Final Completion of Construction	\$11,000 (ASI)	\$300,000 (est.)	TBD



OMID Control Structures Upgrade Project Locations (in red)



## October 21, 2020 OMIDDD Board Meeting

### OMID System Immediate Repairs Status:

**Amt Invoiced:** \$58,703 out of original total design budget of \$21,418; Total design and construction budget currently is established as \$1,352,801 (including contingencies and admin/legal).

**Schedule Status:** Second round of bids were received on 11/6/19; awarded 11/20/19.

- Doestch Environmental was awarded the contract at the November 2019 Board Meeting.
- Field work is pending work crew availability, completion of emergency grouting in PCI-12A, and agreement on Lock-out Tag-out procedures. Start of work anticipated to begin shortly, pending LOTO finalization.
- The current **draft** line item schedule and budget for the OMID System Immediate Repair Project are summarized below:
- Note: The actual start of repairs has been delayed by other on-going priority work in the OMID and MID systems. The revised start date is now expected for the latter part of October, 2020.

Work Item/ Milestone		Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
1	Field Investigations (Conducted under Warranty Repairs budget)	Part of AMP Project		10/01/2018
2	50% Design Package			4/16/2019
3	95%, 100% Design Package			5/20/2019
4	Issued for Bid/Pricing			7/17/2019
5	Bid Opening (Original)			8/07/2019
6	Revised 100% Design Package			9/20/19
7	Issued for Bid/Pricing			10/8/19
8	Bid Opening (Revised)			11/6/19
6	Contract Award and NTP			1/1/20
	Subtotal - Design	\$21,418		
7	Final Completion of Construction	\$66,122	\$1,352,801	6/5/20 (initial; actual TBD)



## NIEA Repairs (Study and Design/Construction)

**Amt Invoiced:** \$1,611,973 out of currently projected study/design budget of \$2,400,570; Total design and construction budget currently is \$44,168,770 (including contingencies and admin/legal).

**Schedule Status:** Bids were received for PCI-4 rehabilitation project; additional field work and investigations are underway for PCI-18 & 19 rehabilitation project. Liner study is 100 percent complete; PCI-4 design 100% percent complete; PCI-18 & 19 design approximately 70% complete.

## October 21, 2020 OMIDDD Board Meeting

- Addendum 1, 2, 3, 4, and 5 were issued for PCI-4 rehabilitation project and bids were received.
- Bid tabulation and evaluation is complete. A contract award recommendation memo has been issued based on our evaluation of the bids. Bid tabulation is given below:

<b>Name of Contractor</b>	<b>Total Contract Price (\$)</b>
Marra Services, Inc.	\$14,732,510.00
L D'Agostini & Sons, Inc.	\$18,250,258.50 (corrected price)
Lanzo Trenchless Technologies, Inc. North	\$21,349,535.00
Ric-Man Construction, Inc.	\$23,870,270.00

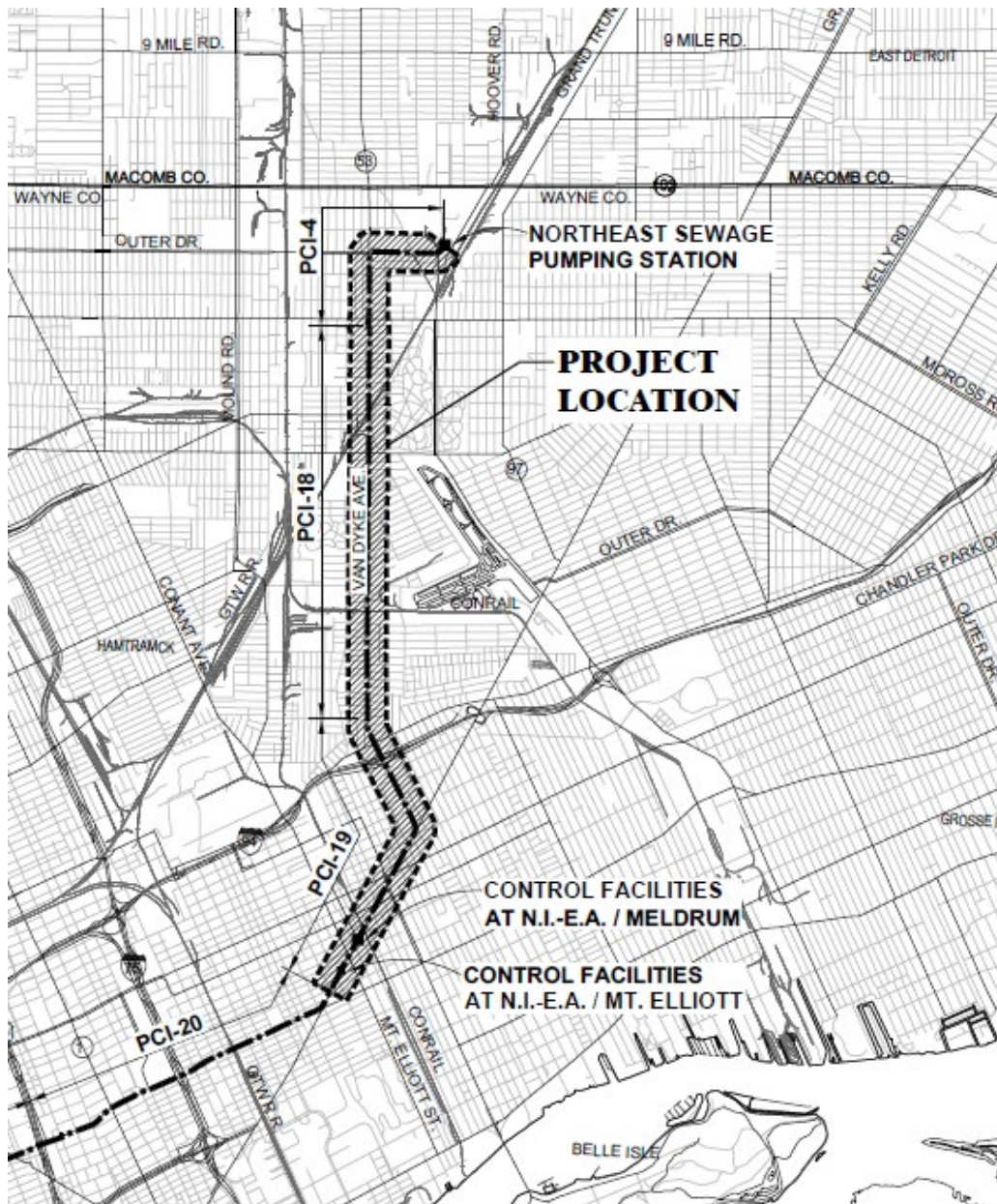
- Coordination meetings and discussions are ongoing regarding cost sharing of rehabilitation of common to all portions of the NI-EA and new control structures, easement agreement to use NESPS site for contractor laydown during PCI-4 rehabilitation, and other miscellaneous design coordination efforts. GLWA is supportive of the general approach for the project.
- 90% design for PCI-18/19 rehabilitation project is underway.

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

	<b>Work Item/ Milestone</b>	<b>Estimated Budget Expenditure (Engineering)</b>	<b>Estimated Budget Expenditure (Contractor)</b>	<b>Estimated Delivery Date</b>
1	Lining Study Evaluations & Draft Report			6/15/2019
2	Lining Study Final Report			10/30/2019
	Subtotal - Study	\$126,744		
3	Field Investigations (MASW, SUE, Survey, Geotech, Env. Inv)			10/30/19
4	Basis of Design Draft			9/30/2019
5	50% Design Package			8/30/2019
6	90%, 100% Design Package			3/20/2020 and 4/28/2020
7	MDEQ Submittal (Part 41)			4/28/2020*
8	Issued for Bid			6/10/2020*
9	Bid Opening			9/30/2020*
10	Contract Award and NTP			12/8/2020 and 1/04/2021*
	Subtotal - Design	\$2,400,570		
11	Final Completion of Construction – PCI-4 Rehab	\$3,500,000	\$35,000,000	07/23/2022*

\*These tentative dates are for PCI-4 Rehabilitation Project; PCI-18/19 Rehabilitation is TBD.

## October 21, 2020 OMIDDD Board Meeting



NI-EA OMID Contracts 1 & 2 Project Location

## October 21, 2020 OMIDDD Board Meeting

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### NESPS Electrical and Mechanical Rehab

**Budget Status:** \$1,264,569 out of current design budget of \$1,382,430; Total design and construction budget currently established as \$39,300,000 (including contingencies and admin/legal).

**Schedule Status:** Engineering/Design efforts underway; approximately 99% complete; procurement packages being developed and bid.

The following work is active:

#### Design Effort

- Site Plan and Foundation Design Bids were received, and Subcontractor was selected. Work includes site concrete for electrical work, building foundation, and underground plumbing. The City of Detroit permit was conditionally approved with exception to the site drainage. Changes to the stormwater system are required. The Design Team is moving forward with changes to meet the DWSD Stormwater Standards.
- A review of alternative energy saving methods and pump sequence remains ongoing. On-going coordination with GLWA is occurring to evaluate the phase over to the new pumping units.
- Drawing and Specifications for 100% design were made available for Team and CMAR review on August 8<sup>th</sup>. The CMAR and OMID staff produced Bid packages for the remaining work. Bids for the final packages were bid in September. The team is evaluating the bids and working with Walsh to develop a guaranteed maximum price (GMP).
- The Design team and Walsh are working together to develop a sequence of construction, schedule, and design package arrangement. The schedule will be driven from this sequence being developed.
- The design team is assisting the CMAR in preparation of the City of Detroit complete building permit.

#### Construction Services

- Construction Phase services (RFI's, Submittals) have commenced, and the engineering is reviewing and responding.
- Received Part 41 permit from EGLE on the construction of the new pumping units and electrical system.
- Conducted further site visits to inspect the existing conditions to assess construction coordination.
- Walsh team working on an updated construction schedule and GMP.



# October 21, 2020 OMIDDD Board Meeting

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

Work Item/ Milestone	Estimated Budget	Estimated Budget	Estimated Delivery Date
1 Draft Basis of Design			5/3/2019
2 Final Basis of Design			5/31/2019
3 30% Design			8/27/2019
CMAR RFP			10/16/2019
4 60% Design			12/19/2019
CMAR Recommendation			11/20/2019
5a 90% Equipment Package			6/15/2020
Suction Gate Rehab			5/15/2020
Site Plan/Foundation			5/15/2020 (est)
Pumping Units			5/20/2020
Major Electrical			5/20/2020
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 - Design	\$1,519,275 (including		
10 Substantial Completion	\$2,500,000 (est.)	\$40,000,000 (est.)	3/1/2023
11 Final Completion			12/1/2023



**NESPS Refurbishment Project Location**

# October 21, 2020 OMIDDD Board Meeting

## CS-9 Gate Installation

### Budget Status:

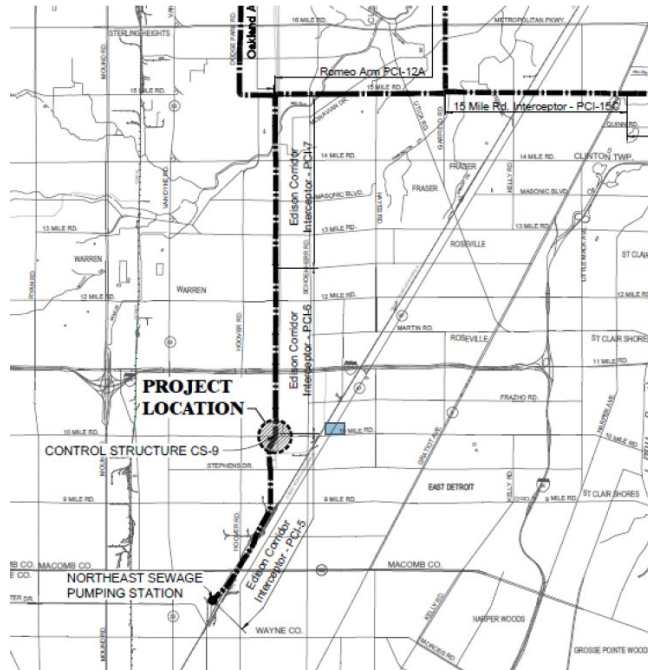
Total design and construction budget currently established as \$1.7M (including contingencies and admin/legal).

### Schedule Status:

Engineering/Design efforts complete; CMR bidding in packages.

The design team is complete with 100% design package for Walsh. With this effort, the following work is active:

- Bids have been received from two contractors for the procurement of gate and actuator packages. Hydrogate has been selected as the gate manufacturer.
- Remaining bid packages received on 9/17/2020; costs currently being evaluated and GMP efforts underway.



CS-9 Gate Installation Project Location

## Other

- Met with EGLE to discuss continued use of existing and future gates for long term flow control and management in the OMID and NIEA systems. EGLE has no objections; OMID Team drafted a letter to formalize arrangement. Awaiting response from EGLE.

## October 21, 2020 OMIDDD Board Meeting

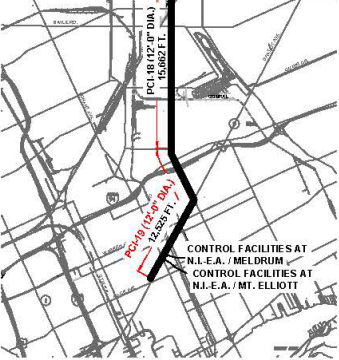
### Summary of OMID Design and Construction Status:

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 (Gatehouse)	IWPC (Weiss)	Y	Y	Y*	N*	N/A
2	Contract 3 (Grouting PCI-5 thru 8)	IWPC	Y	Y	Y	N*	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	N	N	N	N	N/A
N/A	Control Structure Modifications	CSM/Hesco/MCE	Y/N/N	Y/N/N	N	N	N/A
N/A	OMID Maintenance Repairs	Doetsch	N	N	N	N	N/A

\* In review, pending Coating Issues Resolution and Change Order and Memo of Understanding approvals

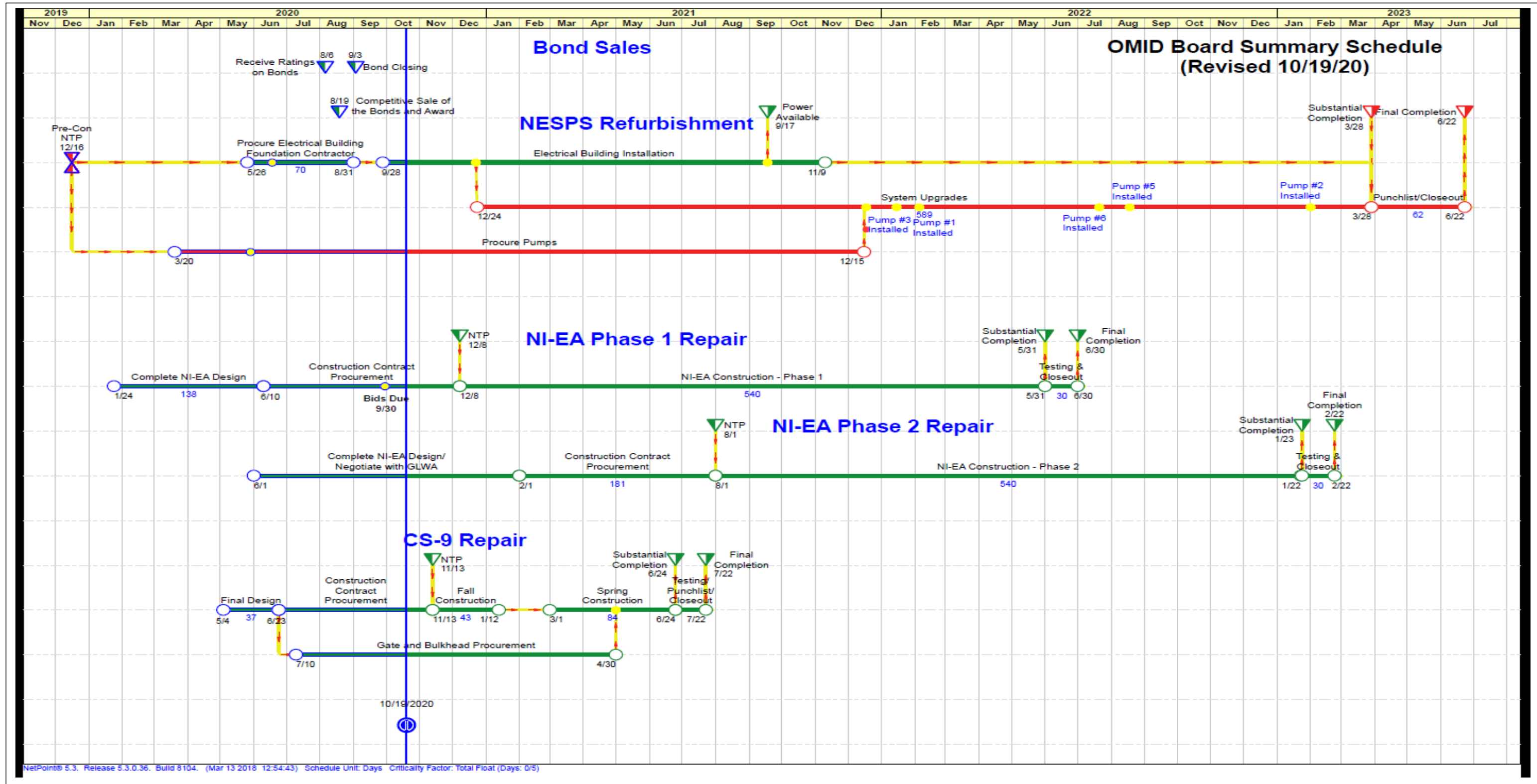
Work Currently in Design/Study/Engineering		
Description	Design Consultant	Status
System-wide Odor/Corrosion Study	Jacobs	Study ~95% Complete
NESPS & OMID Maintenance & Repairs	Metco	Engineering/Maintenance Ongoing
CS-9 Gate Modifications	NTH; Walsh as CMR	Design Complete; Pursuing Bids in Packages
NIEA-OMIDDD Contract 1 (PCI-4)	NTH	Design Complete; Receiving Bids 9/30/20
NIEA-OMIDDD Contract 2 (PCI-18/19)	NTH	Design ~80% Complete; pursuing cost sharing w/ GLWA
NESPS Redesign	ASI; Walsh as CMR	Design Complete; Pursuing Bids in Packages
Emergency Pumping Plan	ASI	Design Complete; Pursuing Bids in Packages





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

# October 21, 2020 OMIDDD Board Meeting



OMID Project Schedule Summary

## October 21, 2020 OMIDDD Board Meeting



### MID/OMID Construction Schedule

Project	Work Location	Owner	Lead Engineer	Contractor	2020			2021																2022																2023		MID/OMID Control Devices Required to Store Flow										Concurrent Work Notes
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	CS-2	CS-3	CS-5	CS-6	CS-6 PS	CS-7	CS-8	CS-9	CS-12	CPS									
MID Grouting (Preliminary schedule has GI and LSI work beginning when OMID grouting has moved upstream of CS-6)	Romeo Arm Interceptor (RAI)	MID	FKE	Doetsch	/																										-	Y	N	H	-	H	Y	-	n/a	H	OMID grouting work can be done concurrently downstream of CS-6.											
	Garfield Interceptor (GI)	MID	AEW	Doetsch	/	/	/																								N	N	N	H	-	H	H	-	n/a	Y	If other work requires CS-3 closure, then GI grouting will be scheduled when CS-3 is not in storage. This crew will move to LSI grouting. Schedule is TBD based on grout takes.											
	Lakeshore Interceptor (LSI)	MID	AEW	Doetsch	/	/	/																								-	-	-	-	-	-	-	-	n/a	N	If other work requires CS-3 closure, then LSI work will be concurrent. CPS can not be used for storage. Schedule duration is TBD based on grout takes.											
OMID Maintenance/Spot Repairs (Preliminary schedule has crews beginning downstream and working upstream. 1 through 3).	1. Downstream of CS-5	OMID	NTH	Doetsch	/	/	/																							-	Y	Y	Y	-	Y	Y	-	n/a	H	Can be accomplished when RAI grouting is complete. Flow control required for some activities, not all.												
	2. Downstream of CS-6	OMID	NTH	Doetsch	/	/	/																							-	Y	N	Y	-	Y	Y	-	n/a	H	Can work concurrently with LSI grouting. Flow control required for some activities, not all.												
	3. Downstream of CS-7	OMID	NTH	Doetsch	/	/	/																							-	-	N	Y	H	Y	Y	-	n/a	-	Can work concurrently RAI, LSI, or GI grouting. Would require CS-6 closure and CS-6 PS operation to keep water levels low if CS-3 remains open. Flow control required for some activities, not all.												
	4. Downstream of CS-8	OMID	NTH	Doetsch	/	/	/																							-	-	-	N	-	N	Y	-	n/a	-	Can work concurrently RAI, LSI, or GI grouting. Flow control required for some activities, not all.												
	5. Upstream of CS-8	OMID	NTH	Doetsch	/	/	/																							-	-	-	N	-	N	N	-	n/a	-	Can work concurrently RAI, LSI, or GI grouting. Will have to coordinate with PSPS, ELPS, and WRC meters 1222/1223 for alerting. Flow control required for some activities, not all.												
MID Drop Shaft Rehab	UT-S-1, ST-S-4, ST-S-5	MID	AEW	IWPC	/	/	/																							-	-	-	-	-	-	-	-	n/a	-	May require brief MID/OMID flow control. Local community bypass required into MID/OMID interceptor.												
MID Drop Shaft Rehab	MA-S-2, CT-S-2, HR-S-2	MID	NTH	IWPC	/	/	/																							-	-	-	-	-	-	-	-	n/a	-	May require brief MID/OMID flow control. Local community bypass required into MID/OMID interceptor.												
OMID Gate Structure Improvements	OMID CS Gates (CS-5, CS-6, CS-7, CS-8)	OMID	ASI/FKE	CSM	/																									-	-	-	-	-	-	-	-	n/a	-	May require brief flow control. Work to be done to improve access to gate structures. Followed up with physical gate improvement.												
CS-9 Gate Installation	CS-9	OMID	NTH	TBD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	Y	Y	Y	Y	-	Y	Y	Y	n/a	H	May require brief flow control for installation. Will require flow control for operations testing and verification.											
MID Inspection	Routine Inspection of MID Manholes & Interceptors	MID	Fishbeck	TBD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	-	-	-	-	-	-	-	n/a	-	Work may require brief flow control to inspect certain reaches. Work will be coordinated around active construction.													
Segment 3 Lining*	13 Mile between ITC Corridor & Eberlein	MID	FKE	TBD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	Y	N	Y	-	Y	Y	-	Y	H	If work is concurrent with NIEA rehabilitation; CS-9 is required. Flow control dates may change depending on sediment removal means and methods.													
NIEA Rehabilitation (Downstream of NESPS)	PCI-4 Shaft & Lining	OMID	NTH	TBD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	Y	N	Y	-	Y	Y	Y	-	H	If work is concurrent with Segments 5 & 6 Lining; CS-9 is required.														
	PCI-18/19 Spot Repairs, Lining, and Flow Controls	OMID	NTH	TBD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	-	-	-	-	-	-	-	-	-	-	Shaft construction. MID/OMID flow control may be required depending on 7-Mile Relief Inter-Connection and PC-663 Gate status.													
NESPS Improvements	NESPS Pump Replacement	OMID	ASI	TBD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	Y	-	Y	-	Y	Y	Y	-	H	Will require brief flow control for pump installation, gate installation, and electrical work.														
Segment 6 Lining	13 Mile upstream of Garfield & between CS-2/CS-3	MID	FKE	TBD	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	Y	Y	-	-	-	-	-	-	Y	Y	May work concurrent with segment 5 or NIEA rehab. Flow control conditions at the CS gates is similar with the exception of utilizing CS-2. Schedule is preliminary.														
PSPS / COSDS Work (PSPS Shutdown)	PSPS	WRC	n/a	n/a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	-	-	-	-	-	-	-	-	-	-	-	Scheduled shut down of PSPS; no flow diversion to Pontiac WWTP (CRWRRF). Will significantly impact storage capabilities on the Oakland Arm CS gates.													

Table updated on 10/13/2020. Estimates to be updated as necessary.

\* Flow control from 8/20 through 6/21 will be required for sewer cleaning. Flow control requirements are TBD based on contractor means & methods, not reflected in "Control Devices Required to Store Flow" section.

Y = Required to store  
N = Required to not store  
H = Helpful to extend work times. *If available when not required for concurrent work.*  
- = Irrelevant

	Estimated Project Window
	Flow Control Required
	Flow Control May Be Required

**Agenda Item No. 13**

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

**YTD Trial Balance****Fund: 84914 Oakland Macomb InterceptorSeg3****As of Fiscal Period: Month 1, 2021**

Run By: WRC\_REPORTING

Run: 10/15/2020 at 01:02 PM

Scope: 84914 Oakland Macomb InterceptorSeg3

ACCOUNT		YTD Balance Total Fund	Oakland Macomb InterceptorSeg3 100000001557	YTD Balance
100100	Cash - Operating	22,711.03	22,711.03	22,711.03
104100	Accrued Interest on Investment	(371.58)	(371.58)	(371.58)
143100	Prepaid Expenses	891.00	891.00	891.00
211100	Due to Primary Government	(25.79)	(25.79)	(25.79)
	Revenues	(16.82)	(16.82)	(16.82)
	Expenditures	0.00	0.00	0.00
	Special Items- Uses	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(23,187.84)	(23,187.84)	(23,187.84)
		(0.00)	(0.00)	(0.00)

Cash as of 10/15/2020 \$ 22,711.03

Invoices / Reimbursements on Current Cash Balance 0.00

Total Net Cash Balance \$ 22,711.03

# Water Resources Commissioner

## PROJECT WORK IN PROGRESS

### Oakland Macomb InterceptorSeg3

#### 10000001557

(as of October 15, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
<b>ADM - Administration</b>				
730772 - Freight and Express		0.00	237.38	
730926 - Indirect Costs		0.00	87,973.15	
730940 - Insurance		0.00	374,816.24	
731521 - Public Services		0.00	72,238.27	
732018 - Travel and Conference		0.00	160.44	
771638 - Drain Equip Labor		0.00	216,953.03	
771639 - Drain Equipment		0.00	19,268.57	
<b>Administration TOTALS</b>				
	460,138.00	0.00	771,647.08	(\$311,509.08)
<b>CONT - Contingency</b>				
<b>Contingency TOTALS</b>				
	4,581,277.00	0.00	0.00	\$4,581,277.00
<b>ENG - Engineering</b>				
702000 - Salaries		0.00	37.74	
722000 - Fringe Benefits		0.00	-25.90	
730772 - Freight and Express		0.00	85.13	
731346 - Personal Mileage		0.00	528.54	
731521 - Public Services		0.00	41,759.18	
732018 - Travel and Conference		0.00	5,546.06	
750140 - Employee Footwear		0.00	75.00	
771638 - Drain Equip Labor		0.00	619,287.86	
771639 - Drain Equipment		0.00	62,383.73	
<b>Engineering TOTALS</b>				
	1,063,145.00	0.00	729,677.34	\$333,467.66
<b>ENGCON - Engineering Consultant</b>				
730639 - Engineering Services-Other		0.00	12,856,549.06	
730940 - Insurance		0.00	2,435.63	
731458 - Professional Services		0.00	62,241.27	
<b>Engineering Consultant TOTALS</b>				
	12,471,892.00	0.00	12,921,225.96	(\$449,333.96)
<b>FAC - Facility Acquisition</b>				
731472 - Project Construction and Impr		0.00	50,234,735.34	
731521 - Public Services		0.00	2,240.68	
<b>Facility Acquisition TOTALS</b>				
	45,738,545.00	0.00	50,236,976.02	(\$4,498,431.02)
<b>FRINGE_BENEFITS - Fringe Benefits</b>				
722000 - Fringe Benefits		0.00	25.90	
<b>Fringe Benefits TOTALS</b>				
	0.00	0.00	25.90	(\$25.90)
<b>INS - Inspection</b>				
731521 - Public Services		0.00	37,329.11	
<b>Inspection TOTALS</b>				
	330,221.00	0.00	37,329.11	\$292,891.89
<b>LEGAL - Legal and Financial</b>				



**Water Resources Commissioner**  
**PROJECT WORK IN PROGRESS**  
**Oakland Macomb InterceptorSeg3**  
**100000001557**  
(as of October 15, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
730639 - Engineering Services-Other	0.00	209,748.13	
730772 - Freight and Express	0.00	127.71	
730940 - Insurance	0.00	2,894,717.09	
731073 - Legal Services	0.00	449,564.79	
731451 - Prof Svc-Financial Consultant	0.00	62,305.00	
<b>Legal and Financial TOTALS</b>			
3,737,066.00	0.00	3,616,462.72	\$120,603.28

**ROW - Right of Way**

731038 - Land and Easement	0.00	226,383.45	
731661 - RW Negotiation and Expense	0.00	1,750.00	
<b>Right of Way TOTALS</b>			
11,440.00	0.00	228,133.45	(\$216,693.45)

Project 100000001557 - Oakland Macomb InterceptorSeg3			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$68,393,724.00	\$0.00	\$68,541,477.58	(\$147,753.58)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$3,253,724.00	
631827-Reimb General	\$0.00	\$43,882.94	
655077-Accrued Interest Adjustments	(\$14.95)	(\$371.58)	
655385-Income from Investments	\$31.77	\$127,446.88	
697753-State Revolving Fund Loans	\$0.00	\$65,140,000.00	
<b>TOTAL REVENUE</b>	<b>\$16.82</b>	<b>\$68,564,682.24</b>	
<b>REVENUE OVER/(UNDER) EXPENSES</b>		<b>\$23,204.66</b>	

YTD Trial Balance  
Fund: 84915 Oakland Macomb InterceptorSeg4  
As of Fiscal Period: Month 1, 2021

Run By: WRC\_REPORTING  
Run: 10/15/2020 at 10:04 PM  
Scope: 84915 Oakland Macomb InterceptorSeg4

ACCOUNT		YTD Balance Total Fund	Oakland Macomb InterceptorSeg4 100000001913	OMI NESPS GATEHOUSE SEG4 100000002232	NESPS Odor Corrosion Stdy Seg4 100000002708	YTD Balance
100100	Cash - Operating	429,489.47	386,997.80	29,958.47	12,533.20	429,489.47
104100	Accrued Interest on Investment	42,430.40	42,430.40	0.00	0.00	42,430.40
211100	Due to Primary Government	(18,184.39)	(12,400.01)	0.00	(5,784.38)	(18,184.39)
	Revenues	(460.15)	(460.15)	0.00	0.00	(460.15)
	Expenditures	(113,614.70)	0.00	(1,141.17)	(112,473.53)	(113,614.70)
	Special Items- Uses	0.00	0.00	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(339,660.63)	(416,568.04)	(28,817.30)	105,724.71	(339,660.63)
		0.00	(0.00)	0.00	0.00	0.00

SRF (SAW Loan) final draw request received January 2017.

Cash as of 10/15/2020	\$	429,489.47
Invoices/Reimbursements for Seg 4 on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS Gatehouse on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS NIEA-East Arm on Current Agenda impacting Cash Balance		(1,342.95)
Invoices/Reimbursements for NESPS Odor Corrosion Study on Current Agenda impacting Cash Balance		(32,385.97)
Total Net Cash Balance	\$	395,760.55



# Water Resources Commissioner

## PROJECT WORK IN PROGRESS

### Oakland Macomb InterceptorSeg4

#### 100000001913

(as of October 15, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
<b>ADM - Administration</b>				
730926 - Indirect Costs		0.00	59,001.44	
730940 - Insurance		0.00	67,871.13	
731115 - Licenses and Permits		0.00	320,000.00	
731521 - Public Services		0.00	14,235.58	
732165 - Workshops and Meeting		0.00	29.66	
771638 - Drain Equip Labor		0.00	4,607.71	
771639 - Drain Equipment		0.00	269.47	
<b>Administration TOTALS</b>				
	390,165.00	0.00	466,014.99	(\$75,849.99)
<b>ENG - Engineering</b>				
731346 - Personal Mileage		0.00	13,783.77	
731521 - Public Services		0.00	40,605.00	
771638 - Drain Equip Labor		0.00	750,197.86	
771639 - Drain Equipment		0.00	82,464.04	
<b>Engineering TOTALS</b>				
	484,153.00	0.00	887,050.67	(\$402,897.67)
<b>ENGCON - Engineering Consultant</b>				
730639 - Engineering Services-Other		0.00	3,594,242.60	
731073 - Legal Services		0.00	108.00	
<b>Engineering Consultant TOTALS</b>				
	3,275,248.00	0.00	3,594,350.60	(\$319,102.60)
<b>FAC - Facility Acquisition</b>				
731472 - Project Construction and Impr		0.00	14,058,313.68	
731521 - Public Services		0.00	6,798.84	
750294 - Material and Supplies		0.00	228.00	
<b>Facility Acquisition TOTALS</b>				
	15,225,614.00	0.00	14,065,340.52	\$1,160,273.48
<b>INS - Inspection</b>				
730373 - Contracted Services		0.00	473.03	
731521 - Public Services		0.00	16,935.91	
<b>Inspection TOTALS</b>				
	17,408.00	0.00	17,408.94	(\$0.94)
<b>LEGAL - Legal and Financial</b>				
730639 - Engineering Services-Other		0.00	8,398.96	
730940 - Insurance		0.00	54,526.58	
731073 - Legal Services		0.00	124,753.11	
793938 - Discount on Bonds		0.00	6,964.10	
<b>Legal and Financial TOTALS</b>				
	191,321.00	0.00	194,642.75	(\$3,321.75)
<b>ROW - Right of Way</b>				
731563 - Recording Fees		0.00	50.67	
<b>Right of Way TOTALS</b>				
	0.00	0.00	50.67	(\$50.67)

**Water Resources Commissioner**  
**PROJECT WORK IN PROGRESS**  
**Oakland Macomb InterceptorSeg4**  
**100000001913**  
 (as of October 15, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
<b>Project 100000001913 - Oakland Macomb InterceptorSeg4</b>			
<b>Total Project Expenses</b>			
<b>Budget Amount</b>	<b>Month-to-Date Expenses</b>	<b>Life-to-Date Expenses</b>	<b>LTD Variance</b>
\$19,583,909.00	\$0.00	\$19,224,859.14	\$359,049.86
<b>Total Project Revenue</b>			
<b>Account</b>	<b>Month-to-Date Revenue</b>	<b>Life-to-Date Revenue</b>	
605572-Special Assessments	\$0.00	\$8,485,730.35	
615572-State Capital Grants	\$0.00	\$1,105,350.77	
655077-Accrued Interest Adjustments	(\$408.93)	\$42,430.40	
655385-Income from Investments	\$869.08	\$649,736.16	
697551-Issuance of Bonds	\$0.00	\$868,639.65	
697753-State Revolving Fund Loans	\$0.00	\$8,490,000.00	
<b>TOTAL REVENUE</b>	<b>\$460.15</b>	<b>\$19,641,887.33</b>	
<b>REVENUE OVER/(UNDER) EXPENSES</b>		<b>\$417,028.19</b>	

**Water Resources Commissioner**  
**PROJECT WORK IN PROGRESS**  
**NESPS Pump Install Seg4**  
**100000002041**  
 (as of October 15, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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**ADM - Administration**

730926 - Indirect Costs	0.00	535.47	
<b>Administration TOTALS</b>			
5,000.00	0.00	535.47	\$4,464.53

**ENG - Engineering**

771638 - Drain Equip Labor	0.00	9,128.98	
771639 - Drain Equipment	0.00	387.33	
<b>Engineering TOTALS</b>			
15,000.00	0.00	9,516.31	\$5,483.69

**ENGCON - Engineering Consultant**

730639 - Engineering Services-Other	0.00	181,969.55	
<b>Engineering Consultant TOTALS</b>			
200,000.00	0.00	181,969.55	\$18,030.45

**FAC - Facility Acquisition**

<b>Facility Acquisition TOTALS</b>			
3,268,155.00	0.00	0.00	\$3,268,155.00

Project 100000002041 - NESPS Pump Install Seg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$3,488,155.00	\$0.00	\$192,021.33	\$3,296,133.67
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$192,021.33	
TOTAL REVENUE	\$0.00	\$192,021.33	
REVENUE OVER/(UNDER) EXPENSES		\$0.00	

# Water Resources Commissioner

## PROJECT WORK IN PROGRESS

### OMI NESPS GATEHOUSE SEG4

#### 100000002232

(as of October 15, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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**ADM - Administration**

730926 - Indirect Costs	0.00	852.60	
771638 - Drain Equip Labor	0.00	53.43	

**Administration TOTALS**

9,472.00	0.00	906.03	\$8,565.97
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**CONT - Contingency**
**Contingency TOTALS**

93,209.00	0.00	0.00	\$93,209.00
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**ENG - Engineering**

771638 - Drain Equip Labor	194.30	12,041.53	
771639 - Drain Equipment	7.48	531.68	

**Engineering TOTALS**

59,699.00	201.78	12,573.21	\$47,125.79
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**ENGCON - Engineering Consultant**

730639 - Engineering Services-Other	0.00	1,247,503.79	
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**Engineering Consultant TOTALS**

496,981.00	0.00	1,247,503.79	(\$750,522.79)
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**FAC - Facility Acquisition**

731472 - Project Construction and Impr	0.00	3,456,264.64	
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**Facility Acquisition TOTALS**

3,748,637.00	0.00	3,456,264.64	\$292,372.36
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**INS - Inspection**

771638 - Drain Equip Labor	0.00	1,277.93	
771639 - Drain Equipment	0.00	59.93	

**Inspection TOTALS**

5,000.00	0.00	1,337.86	\$3,662.14
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**LEGAL - Legal and Financial**

731073 - Legal Services	0.00	1,456.00	
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**Legal and Financial TOTALS**

6,000.00	0.00	1,456.00	\$4,544.00
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Project 100000002232 - OMI NESPS GATEHOUSE SEG4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$4,418,998.00	\$201.78	\$4,720,041.53	(\$301,043.53)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$2,434,988.28	
697551-Issuance of Bonds	\$0.00	\$2,315,011.72	
TOTAL REVENUE	\$0.00	\$4,750,000.00	
REVENUE OVER/(UNDER) EXPENSES		\$29,958.47	

# Water Resources Commissioner

## PROJECT WORK IN PROGRESS

### NESPS Odor Corrosion Stdy Seg4

#### 100000002708

(as of October 15, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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#### ADM - Administration

730926 - Indirect Costs	0.00	5,784.38	
730940 - Insurance	0.00	44,200.00	

#### Administration TOTALS

188,148.00	0.00	49,984.38	\$138,163.62
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#### CONT - Contingency

#### Contingency TOTALS

637,000.00	0.00	0.00	\$637,000.00
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#### ENG - Engineering

771638 - Drain Equip Labor	0.00	109,216.49	
771639 - Drain Equipment	0.00	4,070.36	

#### Engineering TOTALS

206,253.00	0.00	113,286.85	\$92,966.15
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#### ENGCON - Engineering Consultant

730373 - Contracted Services	0.00	577,430.53	
730639 - Engineering Services-Other	0.00	59,195.44	

#### Engineering Consultant TOTALS

1,073,000.00	0.00	636,625.97	\$436,374.03
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#### FAC - Facility Acquisition

730352 - Construction	0.00	571,066.40	
731472 - Project Construction and Impr	0.00	4,005,685.03	

#### Facility Acquisition TOTALS

4,600,000.00	0.00	4,576,751.43	\$23,248.57
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#### INS - Inspection

771638 - Drain Equip Labor	6,726.77	194,911.63	
771639 - Drain Equipment	1,010.66	30,002.57	

#### Inspection TOTALS

190,343.00	7,737.43	224,914.20	(\$34,571.20)
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#### LEGAL - Legal and Financial

#### Legal and Financial TOTALS

15,000.00	0.00	0.00	\$15,000.00
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#### ROW - Right of Way

#### Right of Way TOTALS

46,000.00	0.00	0.00	\$46,000.00
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#### STD - Standard Operation

**Water Resources Commissioner**  
**PROJECT WORK IN PROGRESS**  
**NESPS Odor Corrosion Stdy Seg4**  
**100000002708**  
 (as of October 15, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
730352 - Construction	0.00	198,018.10	
730373 - Contracted Services	0.00	600,395.51	
730926 - Indirect Costs	0.00	1,864.90	
730940 - Insurance	0.00	184,130.93	
731073 - Legal Services	0.00	1,744.00	
731472 - Project Construction and Impr	0.00	51,390.00	
731906 - Testing Services	0.00	31,382.05	
771638 - Drain Equip Labor	0.00	4,184.02	
771639 - Drain Equipment	0.00	2,163.51	
<b>Standard Operation TOTALS</b>			
38,010.00	0.00	1,075,273.02	(\$1,037,263.02)

**SUR - Survey Crew**

<b>Survey Crew TOTALS</b>				
10,246.00	0.00	0.00	\$10,246.00	

Project 100000002708 - NESPS Odor Corrosion Stdy Seg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$7,004,000.00	\$7,737.43	\$6,676,835.85	\$327,164.15
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$3,127,236.04	
697551-Issuance of Bonds	\$0.00	\$3,556,348.63	
<b>TOTAL REVENUE</b>	<b>\$0.00</b>	<b>\$6,683,584.67</b>	
<b>REVENUE OVER/(UNDER) EXPENSES</b>		\$6,748.82	

YTD Trial Balance  
Fund: 84917 Oakland Macomb InterceptorSeg5  
As of Fiscal Period: Month 1, 2021

Run By: 32808  
Run:10/15/2020 at 01:21 PM  
Scope: 84917 Oakland Macomb InterceptorSeg5

ACCOUNT		YTD Balance Total Fund	No Project	Oakland Macomb InterceptorSeg5 100000003252	YTD Balance
100100	Cash - Operating	83,235,588.46	0.00	83,235,588.46	83,235,588.46
104100	Accrued Interest on Investment	(50,524.72)	262.18	(50,786.90)	(50,524.72)
	Revenues	(57,147.52)	107,934.42	(50,786.90)	(57,147.52)
	Expenditures	0.00	0.00	0.00	0.00
	Special Items- Uses	0.00	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(83,127,916.22)	(542.12)	(83,127,374.10)	(83,127,916.22)
		0.00	0.00	0.00	0.00

Cash as of 10/15/2020 \$ 83,235,588.46

Invoices / Reimbursements on Current Cash Balance 0.00

Total Net Cash Balance \$ 83,235,588.46

# Water Resources Commissioner

## PROJECT WORK IN PROGRESS

### OMID Segment 5

### 100000003252

(as of October 15, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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**ADM - Administration**

730177 - Bond Issuing Cost 0.00 242,201.57

**Administration TOTALS**

0.00 0.00 242,201.57 (\$242,201.57)

**LEGAL - Legal and Financial**

730177 - Bond Issuing Cost 0.00 514,935.00

**Legal and Financial TOTALS**

0.00 0.00 514,935.00 (\$514,935.00)

Project 100000003252 - OMID Segment 5			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$0.00	\$0.00	\$757,136.57	(\$757,136.57)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$18,996,523.74	
655077-Accrued Interest Adjustments	(\$50,786.90)	(\$50,524.72)	
697219-Premiums on Bonds Sold	\$0.00	\$7,672,724.75	
697551-Issuance of Bonds	\$0.00	\$57,215,000.00	
TOTAL REVENUE	(\$50,786.90)	\$83,833,723.77	
REVENUE OVER/(UNDER) EXPENSES		\$83,076,587.20	



**County of Oakland  
OMIDD Maintenance Fund  
Statement of Net Position  
September 30, 2020**

**ASSETS**

Current assets:

Cash	\$ 23,998,332.14
Accrued interest receivable	91,549.48
Accounts receivable	300,000.00
Due from municipalities	4,257,665.09
Prepaid Expenses	244,502.25
 Total assets	 <u>\$ 28,892,048.96</u>

**LIABILITIES**

Current liabilities:

Accounts payable	6,573,798.36
Vouchers payable	5,827,590.71
Deposits	4,250.00
Total current liabilities	<u>12,405,639.07</u>
 Total liabilities	 <u>\$ 12,405,639.07</u>

**NET POSITION**

FB Major Maint Reserve	3,311,541.96
FB Capital Improvement Reserve	2,368,182.59
FB Restricted Programs	10,681,685.33
FB Emergency Maint Reserve	125,000.01
Total net position	<u><u>\$ 16,486,409.89</u></u>

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

Oakland County - Water Resources Commissioner's Office  
Fund Equity: Schedule of Reserves and Dedicated Funds  
As of Date: June 30, 2020

Fund	Description	Major Maintenance	Emergency Maintenance	Capital Improvement	Undesignated	Committed for Capital Projects	Total Equity
82912	OMIDD Maintenance Fund	3,311,541.96	125,000.01	2,368,182.59	10,681,685.33		16,486,409.89
84914	OMIDD Seg 3						
	- Project 1-1557 Interceptor Seg 3					23,204.66	23,204.66
84915	OMIDD Seg 4						
	- Project 1-1913 Interceptor Seg 4					417,028.19	417,028.19
	- Project 1-2232 NESPS Gatehouse					29,958.47	29,958.47
	- Project 1-2708 NESPS Odor Corrosion Study					6,748.82	6,748.82
84915	OMIDD Seg 5						
	- Project 1-3252 Interceptor Seg 5 Bond Issue					83,076,587.20	83,076,587.20
Total Equity in Maintenance and Construction Funds							<u>100,039,937.23</u>

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

**County of Oakland**  
**Oakland Macomb InterceptorCh21 Fund**  
**Statement of Revenues, Expenses, and Changes in Net Position**  
**For the Year Ended September 30, 2020**

	<b>Amended Budget</b>	<b>Actual</b>	<b>Favorable (Unfavorable)</b>	<b>YTD % of Budget</b>
Operating revenues				
Inspection Fees	0.00	250.00	\$ 250.00	No Budget
Plan Review Fees	0.00	500.00	500.00	No Budget
Sewage Disposal Services	81,107,830.00	79,668,379.77	(1,439,450.23)	98.23%
Refund Prior Years Expenditure	0.00	1,677,950.01	1,677,950.01	No Budget
Total operating revenue:	<u>81,107,830.00</u>	<u>81,347,079.78</u>	<u>239,249.78</u>	<u>100.29%</u>
Operating expenses				
Salaries	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>No Budget</u>
Fringe benefits	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>No Budget</u>
Contractual services				
Adj Prior Years Exp	0.00	1,583.90	(1,583.90)	No Budget
Bond Issuing Cost	0.00	44,970.04	(44,970.04)	No Budget
Contracted Services	5,404,570.00	1,493,124.34	3,911,445.66	27.63%
Electrical Service	807,780.00	827,428.04	(19,648.04)	102.43%
Engineering Services-Other	0.00	2,310,501.02	(2,310,501.02)	No Budget
Equipment Maintenance	0.00	389,936.64	(389,936.64)	No Budget
Equipment Repair	500,000.00	392,711.21	107,288.79	78.54%
Freight and Express	0.00	50.01	(50.01)	No Budget
Garbage and Rubbish Disposal	12,000.00	0.00	12,000.00	0.00%
Grounds Maintenance	25,000.00	0.00	25,000.00	0.00%
Insurance	1,127,300.00	2,581,308.16	(1,454,008.16)	228.98%
Land and Easement	0.00	31.19	(31.19)	No Budget
Legal Services	350,000.00	41,959.00	308,041.00	11.99%
Natural Gas	80,000.00	7,949.66	72,050.34	9.94%
Prof Svc-Consultant	0.00	255,035.03	(255,035.03)	No Budget
Professional Services	0.00	9,757.84	(9,757.84)	No Budget
Project Construction and Impr	0.00	321,645.60	(321,645.60)	No Budget
Public Services	60,000.00	59,424.27	575.73	99.04%
Sewage Disposal Services	69,046,600.00	69,046,600.05	(0.05)	100.00%
Software Support Maintenance	10,500.00	0.00	10,500.00	0.00%
Special Projects	0.00	11,920,000.00	(11,920,000.00)	No Budget
Testing Services	0.00	20,842.60	(20,842.60)	No Budget
Travel and Conference	20,000.00	0.00	20,000.00	0.00%
Water and Sewage Charges	125,210.00	49,076.86	76,133.14	39.20%
Workshops and Meeting	0.00	585.41	(585.41)	No Budget
Total contractual services	<u>77,568,960.00</u>	<u>89,774,520.87</u>	<u>(12,205,560.87)</u>	<u>115.74%</u>
Commodities				
Material and Supplies	<u>3,260.00</u>	<u>5,502.04</u>	<u>(2,242.04)</u>	<u>168.77%</u>
Total commodities	<u>3,260.00</u>	<u>5,502.04</u>	<u>(2,242.04)</u>	<u>168.77%</u>
Depreciation				
Total depreciation				
Internal services				
Drain Equip Materials	180.00	7.04	172.96	3.91%
Drain Equip Labor	87,330.00	265,779.25	(178,449.25)	304.34%
Drain Equipment	1,540.00	12,456.09	(10,916.09)	808.84%
Telephone Communications	<u>10,500.00</u>	<u>0.00</u>	<u>10,500.00</u>	<u>0.00%</u>
Total internal services	<u>99,550.00</u>	<u>278,242.38</u>	<u>(178,692.38)</u>	<u>279.50%</u>
Total operating expense	<u>77,671,770.00</u>	<u>90,058,265.29</u>	<u>(12,386,495.29)</u>	<u>115.95%</u>
Operating income (loss)	<u>3,436,060.00</u>	<u>(8,711,185.51)</u>	<u>12,147,245.51</u>	<u>-253.52%</u>
Nonoperating revenues (expenses)				
Property Taxes	0.00	0.00	0.00	No Budget
Intergov General Reimbursement	0.00	0.00	0.00	No Budget
Special Assessments	0.00	6,761,333.92	6,761,333.92	No Budget
Federal Grants	0.00	0.00	0.00	No Budget
State Grants	0.00	0.00	0.00	No Budget
Income from investments	201,210.00	328,659.02	127,449.02	163.34%
Interest expense	0.00	0.00	0.00	No Budget
Contributions	0.00	0.00	0.00	No Budget
Paying agent fees	0.00	0.00	0.00	No Budget
Issuance of debt	0.00	5,205,000.00	5,205,000.00	No Budget
Capital Contributions	0.00	0.00	0.00	No Budget
Gain on Exchange of Assets	0.00	0.00	0.00	No Budget
Capital Improvement Program	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>No Budget</u>
Total nonoperating revenues (expenses)	<u>201,210.00</u>	<u>12,294,992.94</u>	<u>12,093,782.94</u>	<u>6110.53%</u>
Income (loss) before transfer	<u>3,637,270.00</u>	<u>3,583,807.43</u>	<u>(53,462.57)</u>	<u>98.53%</u>
Transfers in	0.00	0.00		
Transfers out	<u>0.00</u>	<u>0.00</u>		
Change in net position	<u>3,637,270.00</u>	<u>3,583,807.43</u>	<u>(53,462.57)</u>	<u>98.53%</u>
Net Position - beginning		<u>12,908,902.96</u>		
Net Position - ending		<u><u>16,492,710.39</u></u>		

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

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

OMI DD Meeting Date 10/21/2020

		84914	84915	84915	84915	84915	84917	82912	
		1-1557	1-1913	1-2232	1-2232	1-2708			
<u>Payable To</u>	<u>Invoice #</u>	<u>Segment 3</u>	<u>Segment 4</u>	<u>Segment 4 - NESPS Gate House</u>	<u>Segment 4 - NIEA East Arm</u>	<u>Segment 4 - NESPS Odor Corrosion Study</u>	<u>Segment 5</u>	<u>Oppérations &amp; Maintanence</u>	<u>Total</u>
Oakland County *	WRC Labor/Fringes/Non-direct Labor			194.30		22,032.24			\$22,226.54
Oakland County *	WRC Equipment			7.48		2,812.46			\$2,819.94
Applied Scienceec Inc.	Invoice #20 (ASI Inv. #7696) Work Through 9/26/2020							48,207.33	\$48,207.33
CH2M - Jacobs	Invoice # 697317CH025 Services Through 10/02/20							19,230.12	\$19,230.12
CH2M - LG Design, Inc	Invoice # 705773CH020 Services Through 10/02/20					32,385.97			\$32,385.97
CSM Mechanical, LLC	Invoice # 200MIDD002 Invoice Date 5/13/20							1,310.00	\$1,310.00
CSM Mechanical, LLC	Invoice # 200MIDD003 Invoice Date 5/13/20							3,540.94	\$3,540.94
CSM Mechanical, LLC	Invoice # 200MIDD004 Invoice Date 5/21/20							389.70	\$389.70
CSM Mechanical, LLC	Invoice # 200MIDD007 Invoice Date 10/01/20							7,500.59	\$7,500.59
CSM Mechanical, LLC	Invoice # 200MIDD010 Invoice Date 9/28/20							4,155.15	\$4,155.15
Clark Hill PLC	Invoice # 1018323 Matter 316432 Through 8/31/20							2,997.00	\$2,997.00
Clark Hill PLC	Invoice # 1019309 Matter 404547 Through 9/10/2020							1,107.00	\$1,107.00
Detroit Elevator	Invoice #188128 NESPS Elevator Maintenance June 2020							182.00	\$182.00
Dickenson Wright PLLC	Invoice # 1512133 Matter 012840-00424 Service through 8/31/20							1,155.00	\$1,155.00
Inland Lakes Landscaping Corp.	Invoice # 24627 Herbicide Application, Site Clean Up 9/11/20 & 10/2/20 Toepher							1,625.00	\$1,625.00
Inland Lakes Landscaping Corp.	Invoice # 24628 Herbicide Application, Site Clean Up 9/11/20 & 10/2/20 Struct. #6							1,125.00	\$1,125.00
Kennedy Industries	Invoice # 618284 - NESPS Field Service Date 5/21/20							748.00	\$748.00
Motor City Electric Technologies	Invoice # 93245 NESPS SCADA Cutover 09/02/20							654.50	\$654.50
Motor City Electric Technologies	Invoice # 93246 NESPS SCADA Cutover 09/24/21							192.50	\$192.50
NTH Consultants	Inv # 04 OMID NESPS Safety Manual & Crane Support Service Through 09/25/20							5,328.33	\$5,328.33
NTH Consultants	Inv # 06 OMID CS-9 Gate Design Service Through 09/25/20							8,767.44	\$8,767.44
NTH Consultants	Inv # 16 - OMIDD NI-EA Rehab Services Through 09/25/20							52,257.86	\$52,257.86
NTH Consultants	Inv # 20 - OMIDD System Immediate Repair Service Through 09/25/20							139.51	\$139.51
NTH Consultants	Inv # 53 - OMIDD NESPS Discharge Rehab Services Through 09/25/20				1,342.95				\$1,342.95
PMA Consultants	Invoice # 03559.01 - 4 Professional Services Through 09/30/20							7,469.52	\$7,469.52
PM Technologies	Invoice # 0000143106 Services 9/25/20 Fuel Float Switch							1,699.84	\$1,699.84
PM Technologies	Invoice # 0000143242 Services 9/25/20 Rupture Basin Alarm							776.25	\$776.25
Rotor Electric Co.	Invoice # 12329 Switchgear Maint. & Testing 7/14/20							665.00	\$665.00
Rotor Electric Co.	Invoice # 12354 Switchgear Maint. & Testing 7/17/20							1,178.70	\$1,178.70
Rotor Electric Co.	Invoice # 12355 Switchgear Maint. & Testing 7/2/20							712.00	\$712.00
Rotor Electric Co.	Invoice # 12357 Switchgear Maint. & Testing 9/10/20							1,197.00	\$1,197.00
Rotor Electric Co.	Invoice # 12359 Switchgear Maint. & Testing 8/18/20							3,499.32	\$3,499.32
Rotor Electric Co.	Invoice # 12360 Switchgear Maint. & Testing 9/16/20							4,343.97	\$4,343.97
Rotor Electric Co.	Invoice # 12361 Switchgear Maint. & Testing 9/16/20							2,666.48	\$2,666.48
Rotor Electric Co.	Invoice # 12362 Switchgear Maint. & Testing 9/14/20							2,326.47	\$2,326.47
Rotor Electric Co.	Invoice # 12364 Switchgear Maint. & Testing 7/13/20							1,910.00	\$1,910.00
Rotor Electric Co.	Invoice # 12365 Switchgear Maint. & Testing 5/28/20							1,460.00	\$1,460.00
Total Invoices/Reimbursements for Approval		\$0.00	\$0.00	\$201.78	\$1,342.95	\$57,230.67	\$0.00	\$190,517.52	\$249,292.92
	* Less WRC Charges already paid from OMI Fund	0.00	0.00	(201.78)	0.00	(24,844.70)	0.00	0.00	(25,046.48)
	** Less amount being paid from Retainage Account								0.00
Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain Board		\$0.00	\$0.00	\$0.00	\$1,342.95	\$32,385.97	\$0.00	\$190,517.52	\$224,246.44

## **Agenda Item No. 14**

### **Invoices**

OMI Segment 4 NESPS Gatehouse Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 08/29/2020 - 10/09/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
525985	10/08/2020	10/05/2020	PARROTT, JEFFREY	2.50	\$194.30	REGULAR	WRCROW	100000002232	ENG
					\$194.30				

OMI NESPS Gatehouse Project - WRC Equipment Charges for Trans Dates - 08/29/2020 - 10/09/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
525985	10/08/2020	10/05/2020	PARROTT, JEFFREY	2.50	\$0.63	ASSIGNED	Tablet/iPad	100000002232	ENG
525985	10/08/2020	10/05/2020	PARROTT, JEFFREY	2.50	\$1.00	ASSIGNED	Cell Phone	100000002232	ENG
525985	10/08/2020	10/05/2020	PARROTT, JEFFREY	2.50	\$5.85	ASSIGNED	PC/Computer	100000002232	ENG
					\$7.48				

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Oper Unit	OU Descr	Descr	Sum BU Amount
None									\$0.00



OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 08/29/2020 - 10/09/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
864521	08/31/2020	08/18/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	08/31/2020	08/19/2020	BROWN, JOEL	4.00	\$415.64	REGULAR	WRCCON	100000002708	ENG
864521	08/31/2020	08/21/2020	BROWN, JOEL	1.00	\$103.91	REGULAR	WRCCON	100000002708	ENG
864521	08/31/2020	08/24/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	08/31/2020	08/26/2020	BROWN, JOEL	1.00	\$103.91	REGULAR	WRCCON	100000002708	ENG
864521	08/31/2020	08/27/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	09/14/2020	08/31/2020	BROWN, JOEL	1.00	\$103.91	REGULAR	WRCCON	100000002708	ENG
864521	09/14/2020	09/04/2020	BROWN, JOEL	1.50	\$155.87	REGULAR	WRCCON	100000002708	ENG
864521	09/14/2020	09/08/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	09/14/2020	09/09/2020	BROWN, JOEL	1.00	\$103.91	REGULAR	WRCCON	100000002708	ENG
864521	09/14/2020	09/10/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	09/25/2020	09/14/2020	BROWN, JOEL	0.50	\$51.96	REGULAR	WRCCON	100000002708	ENG
864521	09/25/2020	09/15/2020	BROWN, JOEL	3.50	\$363.69	REGULAR	WRCCON	100000002708	ENG
864521	09/25/2020	09/16/2020	BROWN, JOEL	1.00	\$103.91	REGULAR	WRCCON	100000002708	ENG
864521	09/25/2020	09/21/2020	BROWN, JOEL	1.00	\$103.91	REGULAR	WRCCON	100000002708	ENG
864521	09/25/2020	09/22/2020	BROWN, JOEL	1.00	\$103.91	REGULAR	WRCCON	100000002708	ENG
864521	09/25/2020	09/24/2020	BROWN, JOEL	3.00	\$311.73	REGULAR	WRCCON	100000002708	ENG
864521	09/25/2020	09/25/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
			<b>BROWN, JOEL Total</b>		<b>\$3,273.18</b>				
951584	08/31/2020	08/31/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/02/2020	09/01/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/02/2020	09/02/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/03/2020	09/03/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/08/2020	09/08/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/09/2020	09/09/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/10/2020	09/10/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/16/2020	09/16/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/17/2020	09/17/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/18/2020	09/18/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/21/2020	09/21/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/22/2020	09/22/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/23/2020	09/23/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/24/2020	09/24/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
951584	09/29/2020	09/29/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	09/30/2020	09/30/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	10/01/2020	10/01/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	10/02/2020	10/02/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	10/05/2020	10/05/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	10/06/2020	10/06/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	10/07/2020	10/07/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	10/08/2020	10/08/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
951584	10/09/2020	10/09/2020	CODE, JEFFREY	1.00	\$69.74	REGULAR	WRCCDM	100000002708	INS
			<b>CODE, JEFFREY Total</b>		<b>\$1,584.84</b>				
864521	09/11/2020	09/02/2020	LOCKHART, SIDNEY	1.00	\$122.94	REGULAR	WRCADM	100000002708	ENG
864521	09/11/2020	09/10/2020	LOCKHART, SIDNEY	1.00	\$122.94	REGULAR	WRCADM	100000002708	ENG
			<b>LOCKHART, SIDNEY Total</b>		<b>\$245.88</b>				
951584	08/31/2020	08/31/2020	ROBERTS, PATRICK	10.00	\$565.80	REGULAR	WRCCDM	100000002708	INS
951584	09/01/2020	09/01/2020	ROBERTS, PATRICK	10.00	\$565.80	REGULAR	WRCCDM	100000002708	INS
951584	09/01/2020	09/01/2020	ROBERTS, PATRICK	1.00	\$64.17	OVERTIME	WRCCDM	100000002708	INS
951584	09/02/2020	09/02/2020	ROBERTS, PATRICK	10.00	\$565.80	REGULAR	WRCCDM	100000002708	INS
951584	09/02/2020	09/02/2020	ROBERTS, PATRICK	1.00	\$64.17	OVERTIME	WRCCDM	100000002708	INS
951584	09/03/2020	09/03/2020	ROBERTS, PATRICK	10.00	\$565.80	REGULAR	WRCCDM	100000002708	INS
951584	09/04/2020	09/04/2020	ROBERTS, PATRICK	6.00	\$385.02	OVERTIME	WRCCDM	100000002708	INS
951584	09/09/2020	09/08/2020	ROBERTS, PATRICK	10.00	\$565.80	REGULAR	WRCCDM	100000002708	INS
951584	09/09/2020	09/09/2020	ROBERTS, PATRICK	10.00	\$565.80	REGULAR	WRCCDM	100000002708	INS
951584	09/11/2020	09/10/2020	ROBERTS, PATRICK	10.00	\$565.80	REGULAR	WRCCDM	100000002708	INS
951584	09/11/2020	09/11/2020	ROBERTS, PATRICK	9.00	\$577.53	OVERTIME	WRCCDM	100000002708	INS
951584	09/14/2020	09/14/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/14/2020	09/14/2020	ROBERTS, PATRICK	1.00	\$64.17	OVERTIME	WRCCDM	100000002708	INS
951584	09/16/2020	09/15/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/16/2020	09/15/2020	ROBERTS, PATRICK	1.50	\$96.26	OVERTIME	WRCCDM	100000002708	INS
951584	09/17/2020	09/16/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/17/2020	09/16/2020	ROBERTS, PATRICK	3.50	\$224.60	OVERTIME	WRCCDM	100000002708	INS
951584	09/17/2020	09/17/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/17/2020	09/17/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
951584	09/18/2020	09/18/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/18/2020	09/18/2020	ROBERTS, PATRICK	2.50	\$160.43	OVERTIME	WRCCDM	100000002708	INS
951584	09/21/2020	09/21/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/21/2020	09/21/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
951584	09/22/2020	09/22/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/22/2020	09/22/2020	ROBERTS, PATRICK	2.50	\$160.43	OVERTIME	WRCCDM	100000002708	INS
951584	09/23/2020	09/23/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS

951584	09/23/2020	09/23/2020	ROBERTS, PATRICK	2.50	\$160.43	OVERTIME	WRCCDM	100000002708	INS
951584	09/24/2020	09/24/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/25/2020	09/25/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/25/2020	09/25/2020	ROBERTS, PATRICK	1.00	\$64.17	OVERTIME	WRCCDM	100000002708	INS
951584	09/28/2020	09/28/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
951584	09/29/2020	09/29/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	09/30/2020	09/30/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/01/2020	10/01/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/01/2020	10/01/2020	ROBERTS, PATRICK	1.00	\$65.45	OVERTIME	WRCCDM	100000002708	INS
951584	10/02/2020	10/02/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/05/2020	10/05/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/06/2020	10/06/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/06/2020	10/06/2020	ROBERTS, PATRICK	2.00	\$130.90	OVERTIME	WRCCDM	100000002708	INS
951584	10/07/2020	10/07/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/07/2020	10/07/2020	ROBERTS, PATRICK	2.00	\$130.90	OVERTIME	WRCCDM	100000002708	INS
951584	10/08/2020	10/08/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/08/2020	10/08/2020	ROBERTS, PATRICK	2.00	\$130.90	OVERTIME	WRCCDM	100000002708	INS
951584	10/09/2020	10/09/2020	ROBERTS, PATRICK	8.00	\$461.68	REGULAR	WRCCDM	100000002708	INS
951584	10/09/2020	10/09/2020	ROBERTS, PATRICK	5.00	\$327.25	OVERTIME	WRCCDM	100000002708	INS
951584	10/09/2020	10/09/2020	ROBERTS, PATRICK	4.00	\$261.80	OVERTIME	WRCCDM	100000002708	INS
			<b>ROBERTS, PATRICK Total</b>		<b>\$16,484.19</b>				
951584	09/29/2020	09/29/2020	ROBINSON, RYAN	4.00	\$253.80	REGULAR	WRCCDM	100000002708	INS
951584	10/07/2020	10/07/2020	ROBINSON, RYAN	3.00	\$190.35	REGULAR	WRCCDM	100000002708	INS
			<b>ROBINSON, RYAN Total</b>		<b>\$444.15</b>				
			<b>Grand Total</b>		<b>\$22,032.24</b>				

OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Equipment Charges for Trans Dates - 08/29/2020 - 10/09/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
864521	08/31/2020	08/18/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	08/31/2020	08/18/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	08/31/2020	08/18/2020	BROWN, JOEL	2.00	\$0.50	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	08/31/2020	08/19/2020	BROWN, JOEL	4.00	\$1.60	ASSIGNED	Cell Phone	100000002708	ENG
864521	08/31/2020	08/19/2020	BROWN, JOEL	4.00	\$9.36	ASSIGNED	PC/Computer	100000002708	ENG
864521	08/31/2020	08/19/2020	BROWN, JOEL	4.00	\$1.00	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	08/31/2020	08/21/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	08/31/2020	08/21/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	08/31/2020	08/21/2020	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	08/31/2020	08/24/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	08/31/2020	08/24/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	08/31/2020	08/24/2020	BROWN, JOEL	2.00	\$0.50	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	08/31/2020	08/26/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	08/31/2020	08/26/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	08/31/2020	08/26/2020	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	08/31/2020	08/27/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	08/31/2020	08/27/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	08/31/2020	08/27/2020	BROWN, JOEL	2.00	\$0.50	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/14/2020	08/31/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/14/2020	08/31/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/14/2020	08/31/2020	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/14/2020	09/04/2020	BROWN, JOEL	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/14/2020	09/04/2020	BROWN, JOEL	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/14/2020	09/04/2020	BROWN, JOEL	1.50	\$0.38	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/14/2020	09/08/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/14/2020	09/08/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/14/2020	09/08/2020	BROWN, JOEL	2.00	\$0.50	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/14/2020	09/09/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/14/2020	09/09/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/14/2020	09/09/2020	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/14/2020	09/10/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/14/2020	09/10/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/14/2020	09/10/2020	BROWN, JOEL	2.00	\$0.50	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/25/2020	09/14/2020	BROWN, JOEL	0.50	\$0.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/25/2020	09/14/2020	BROWN, JOEL	0.50	\$1.17	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/25/2020	09/14/2020	BROWN, JOEL	0.50	\$0.13	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/25/2020	09/15/2020	BROWN, JOEL	3.50	\$1.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/25/2020	09/15/2020	BROWN, JOEL	3.50	\$8.19	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/25/2020	09/15/2020	BROWN, JOEL	3.50	\$0.88	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/25/2020	09/16/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/25/2020	09/16/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/25/2020	09/16/2020	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/25/2020	09/21/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/25/2020	09/21/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/25/2020	09/21/2020	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/25/2020	09/22/2020	BROWN, JOEL	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/25/2020	09/22/2020	BROWN, JOEL	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/25/2020	09/22/2020	BROWN, JOEL	1.00	\$0.25	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/25/2020	09/24/2020	BROWN, JOEL	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/25/2020	09/24/2020	BROWN, JOEL	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/25/2020	09/24/2020	BROWN, JOEL	3.00	\$0.75	ASSIGNED	Tablet/iPad	100000002708	ENG
864521	09/25/2020	09/25/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	09/25/2020	09/25/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	09/25/2020	09/25/2020	BROWN, JOEL	2.00	\$0.50	ASSIGNED	Tablet/iPad	100000002708	ENG
			<b>BROWN, JOEL Total</b>		<b>\$94.20</b>				0
951584	08/31/2020	08/31/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	08/31/2020	08/31/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	08/31/2020	08/31/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	09/02/2020	09/01/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	09/02/2020	09/01/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	09/02/2020	09/01/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	09/02/2020	09/02/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	09/02/2020	09/02/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	09/02/2020	09/02/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
951584	09/03/2020	09/03/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
951584	09/03/2020	09/03/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
951584	09/03/2020	09/03/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS

OMI Seg 4 NESPS Odor Corrosion Study Project - WRC labor-FB-NPF-EQP for 10-21-2020 meeting

OMI Seg 4 NESPS Odor Corrosion Study Project - WRC labor-FB-NPF-EQP for 10-21-2020 meeting	Equipme
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OMI Seg 4 NESPS Odor Corrosion Study Project - WRC labor-FB-NPF-EQP for 10-21-2020 meeting

951584	10/07/2020	10/07/2020	ROBINSON, RYAN	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
951584	10/07/2020	10/07/2020	ROBINSON, RYAN	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
			<b>ROBINSON, RYAN Total</b>		<b>\$59.01</b>				0
951584	09/29/2020	09/29/2020	CDM Leica TS15P R400	4.00	\$38.00	UNASSIGNED		100000002708	INS
951584	10/07/2020	10/07/2020	CDM Leica TS15P R400	3.00	\$28.50	UNASSIGNED		100000002708	INS
			<b>CDM Leica TS15P R400 Total</b>		<b>\$66.50</b>				0
			<b>Grand Total</b>		<b>\$2,812.46</b>				0

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Oper Unit	OU Descr	Descr	Sum BU Amount
									<div>\$-</div>





# Applied Science, Inc.

300 River Place Suite 5400 Detroit, MI 48207  
Phone: (313) 567-3990 Fax: (313) 567-3750  
www.asi-detroit.com

October 7, 2020

Project Invoice #20 (ASI Inv. #7696)

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

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

**li# 41133**  
**exp. 6/26/21**  
**V#352**

Invoice Period: 8/30/20 - 9/26/20

Task No.	Task Description	Total This Invoice
1	<b>Transition &amp; Basis of Design</b>	
	Total:	\$ -
	Subconsultants:	
	<b>FK Engineering:</b>	\$ -
	ASI Markup 5%:	\$ -
	<b>Total:</b>	<b>\$ -</b>

Task No.	Task Description	Total This Invoice
2	<b>Design Services for Pump &amp; Electrical Upgrades</b>	
	Total:	\$ 21,029.00
	Subconsultants:	
	<b>Metco Services</b>	\$ 14,715.00
	<b>FK Engineering:</b>	\$ 4,058.80
	<b>NTH Consultants</b>	\$ 5,745.08
	<b>AEW</b>	\$ -
	ASI Markup 5%:	\$ 1,225.94
	<b>Total Due This Invoice:</b>	<b>\$ 46,773.82</b>

**82912 - 149667 - 730639 -  
1-3020 engcon**

JTB 10/9/20  
*Sid Lockhart*

Task No.	Task Description	Total This Invoice
3	<b>Additional Special Services</b>	
	Total:	\$ -
	Subconsultants:	
	<b>NTH Consultants</b>	
	<b>FK Engineering:</b>	\$ 1,365.25
	ASI Markup 5%:	\$ 68.26
	<b>Total Due This Invoice:</b>	<b>\$ 1,433.51</b>

**82912 - 149667 - 730639 -  
1-3016 engcon**

JTB 10/9/20  
*Sid Lockhart*

**Total Due This Invoice:**

**\$ 48,207.33**

**\$48,207.33** *Sid Lockhart*

Previous Amount Invoiced:	\$ 1,462,162.55
Total Invoiced To-Date	\$ 1,510,369.89
Contract Task Total:	\$ 1,755,118.00
Amount Remaining:	\$ 244,748.11

JTB 10/13/20



LG Design is a Subsidiary of CH2M Hill Engineers

Invoice Contact:  
Sandy.Pepper@Jacobs.com

Remit to:

LG Design, Inc.  
Attn: Judy Rives  
1041 East Butler Road  
Greenville, SC. 29607  
Tax ID : 20-0936384

84915 - 149015 - 730373 - 5456 - 1-2708 - Ch. 21 - engcon v# 22147 exp. 6/26/23 li# 41407

Oakland-Macomb Interceptor Drain Drainage District  
Oakland County Water Resources Commissioner  
One Public Works Drive  
Waterford, MI 48328  
248-858-0958

JTB 10/13/20

*Sid Lockhart*

Invoice Date 10/12/2020  
CH2M HILL Project No. 705773CH  
CH2M HILL Invoice No. 705773CH020  
Sequential Invoice Number: 21

**PROFESSIONAL SERVICES RENDERED FOR THE OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMIDDD)  
BIOTRICKLING FILTER DESIGN AND CONSTRUCTION OVERSIGHT**

This invoice includes labor and expenses for the period:  
From August 22, 2020 through October 02, 2020

**Authorized Amount: \$ 1,272,470.46**  
Current Invoice: \$ 32,385.97  
Total Invoiced: \$ 1,119,908.22  
Percent Complete: 88.01%  
Remaining Budget: \$ 152,562.24

**Total Amount Due: \$ 32,385.97**

Project/Task Number	Description	Total Budget	Previously Invoiced	Current Invoice	Total Invoiced	Percent Spent	Remaining Budget
1	PROJECT MANAGEMENT	\$ 33,527.00	\$ 33,504.07	\$ -	\$ 33,504.07	99.93%	\$ 22.93
2	PRELIMINARY DESIGN	\$ 73,599.00	\$ 73,519.37	\$ -	\$ 73,519.37	99.89%	\$ 79.63
3	FINAL DESIGN	\$ 195,027.00	\$ 195,009.84	\$ -	\$ 195,009.84	99.99%	\$ 17.16
4	BIDDING	\$ 31,841.46	\$ 31,840.94	\$ -	\$ 31,840.94	100.00%	\$ 0.52
5	CONSTRUCTION OBSERVATION	\$ 325,731.16	\$ 297,527.70	\$ 13,930.13	\$ 311,457.83	95.62%	\$ 14,273.33
6	REVIEW SUBMITTALS	\$ 85,648.00	\$ 85,581.87	\$ -	\$ 85,581.87	99.92%	\$ 66.13
7	CHANGES & CLAIMS	\$ 17,361.00	\$ 17,274.11	\$ -	\$ 17,274.11	99.50%	\$ 86.89
8	SITE INSPECTION	\$ 35,641.00	\$ 4,307.50	\$ -	\$ 4,307.50	12.09%	\$ 31,333.50
9	PREPARE O&M MANUAL	\$ 26,718.00	\$ -	\$ -	\$ -	0.00%	\$ 26,718.00
10	PROVIDE OPERATING TRAINING	\$ 9,082.00	\$ -	\$ -	\$ -	0.00%	\$ 9,082.00
11	ASSIST WITH FACILITY START-UP	\$ 17,129.00	\$ -	\$ -	\$ -	0.00%	\$ 17,129.00
12	PREPARE RECORD DRAWINGS	\$ 9,803.00	\$ -	\$ -	\$ -	0.00%	\$ 9,803.00
13	WARRANTY & PERFORMANCE REVIEWS	\$ 15,925.00	\$ -	\$ -	\$ -	0.00%	\$ 15,925.00
14	PROJECT PLANNING	\$ 25,000.00	\$ 24,997.75	\$ -	\$ 24,997.75	99.99%	\$ 2.25
EX	EXPENSES	\$ 22,711.00	\$ 17,175.62	\$ -	\$ 17,175.62	75.63%	\$ 5,535.38
SUB.METCO	ELECTRICAL ENGINEERING	\$ 75,570.00	\$ 74,194.50	\$ -	\$ 74,194.50	98.18%	\$ 1,375.50
SUB.NTH	GEOTECH INVESTIGATION	\$ 246,215.84	\$ 227,338.98	\$ 18,455.84	\$ 245,794.82	99.83%	\$ 421.02
SUB.SDA	SITE SURVEY	\$ 5,250.00	\$ 5,250.00	\$ -	\$ 5,250.00	100.00%	\$ -
<b>Subtotal:</b>		\$ 1,251,779.46	\$ 1,087,522.25	\$ 32,385.97	\$ 1,119,908.22	89.47%	\$ 131,871.24
<b>Allowance</b>		\$ 20,691.00	\$ -	\$ -	\$ -	0.00%	\$ 20,691.00
<b>Total:</b>		\$ 1,272,470.46	\$ 1,087,522.25	\$ 32,385.97	\$ 1,119,908.22	89.47%	\$ 152,562.24

**OUTSTANDING INVOICES:**

INVOICE DATE	INVOICE #	AMOUNT
<b>Total:</b>		\$ -
Current invoice		\$ 32,385.97
<b>TOTAL DUE:</b>		\$ 32,385.97

**Payment term: 30 calendar days (NET)**

FINANCE CHARGES WILL BE ASSESSED AT 1% PERCENT PER MONTH (OR MAXIMUM PERMISSIBLE UNDER STATE LAW) ON ALL ACCOUNTS OVERDUE UNLESS STATED OTHERWISE IN OUR CONTRACT. CH2M HILL IS INCORPORATED.

**Electronic payment details:**

Beneficiary Bank: Wells Fargo  
ABA No: 121000248  
Account No (USD): 4121034003  
SWIFT: WFBUS6S

# CLARK HILL

P.L.C.

A T T O R N E Y S   A T   L A W

151 S. Old Woodward Avenue, Suite 200  
Birmingham, Michigan 48009  
Telephone (248) 642-9692  
Fed.ID # 38-0425840

82912 - 1149667-3019--Legal- 731073 - 5113 -  
Ch.21

*Jed* *R*

10/9/20

## INVOICE

Invoice # 1018323

Oakland-Macomb Interceptor Drain Drainage District September 14, 2020  
Attn: Kelsey Cooke Client: 58434  
c/o Oakland County Water Resources Commissioner Matter: 316432  
1 Public Works Drive  
Waterford, MI 48328

=====

RE: OMID Phase 2 Project - Acquisition of Northeast Pump  
Stations

FOR SERVICES RENDERED through August 31, 2020

Total Services: \$2,997.00

INVOICE TOTAL \$2,997.00

08/13/20 1009440 \$1917.00

Past Due Balance: pd. 9/22/20 \$1,917.00

TOTAL AMOUNT DUE \$4,914.00

=====

PAYABLE UPON RECEIPT IN U.S. DOLLARS

MK 9/22/20

# CLARK HILL

P.L.C.

ATTORNEYS AT LAW

212 East Grand River Avenue  
Lansing, Michigan 48906-4328  
Telephone (517) 318-3100  
Fed.ID # 38-0425840

## INVOICE

Invoice # 1019309

Oakland-Macomb Interceptor Drain Drainage District September 16, 2020  
Attn: Kelsey Cooke Client: 58434  
c/o Oakland County Water Resources Commissioner Matter: 404547  
1 Public Works Drive  
Waterford, MI 48328

82912 - 149667 - 731073 - 1-3019 - 5113 - v#2788 - li#39308 - exp. 5/15/21



RE: Northeast Interceptor East Arm Improvements

10/8/20

FOR SERVICES RENDERED through September 10, 2020

Total Services: \$1,107.00

STATEMENT TOTAL \$1,107.00

MK 10/8/20

PAYABLE UPON RECEIPT IN U.S. DOLLARS

CSM Mechanical, LLC  
7400 Hickory Valley Dr.  
Fenton, MI 48430

7400 Hickory Valley Dr.  
Fenton, MI 48430

Joh. R.

10/9/20

# Invoice

Date	Invoice #
5/13/2020	200MIDD002

82912 - 149090 - 730660 - 5817 - Ch. 21 - v# 15750 - exp. 6/28/22 - li# 42697

Bill To
OMIDD One Public Works Drive Building 95 West Waterford, MI 48328

Ship To
OMIDD 11010 E. State Fair St. Detroit, MI

P.O. Number	Terms	Due Date
	Net 60	7/12/2020

Description	Amount
Repairs to Hand Railing	
Labor	1,235.00
Vehicle/Tool Allowance	<i>TM</i> 75.00

	<b>Total</b>	\$1,310.00
WE ACCEPT MASTER CARD, VISA, AND DISCOVER CARD	<b>Payments/Credits</b>	\$0.00
<b>“Relentlessly Helping Our Customers Achieve Success by Being an Integral, Caring and Innovative Mechanical Solutions Provider.”</b>	<b>Balance Due</b>	\$1,310.00

WE ACCEPT MASTER CARD, VISA, AND DISCOVER CARD

**“Relentlessly Helping Our Customers Achieve Success by Being an Integral, Caring and Innovative Mechanical Solutions Provider.”**

CSM Mechanical, LLC

7400 Hickory Valley Dr.  
Fenton, MI 48430

10/9/20

# Invoice

Date	Invoice #
5/13/2020	200MIDD003

82912 - 149090 - 730660 - 5817 - Ch. 21 - v# 15750 - exp. 6/28/22 - li# 42697

Bill To
OMIDD One Public Works Drive Building 95 West Waterford, MI 48328

Ship To
OMIDD 11010 E. State Fair St. Detroit, MI

P.O. Number	Terms	Due Date
	Net 60	7/12/2020

[illegible]

WE ACCEPT MASTER CARD, VISA, AND DISCOVER CARD

**“Relentlessly Helping Our Customers Achieve Success by Being an Integral, Caring and Innovative Mechanical Solutions Provider.”**

<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$3,540.94

CSM Mechanical, LLC

7400 Hickory Valley Dr.  
Fenton, MI 48430

10/9/20

# Invoice

Date	Invoice #
5/21/2020	20OMIDD004

Bill To
OMIDD One Public Works Drive Building 95 West Waterford, MI 48328

Ship To
OMIDD 11010 E. State Fair St. Detroit, MI

P.O. Number	Terms	Due Date
	Net 60	7/20/2020

[illegible]


WE ACCEPT MASTER CARD, VISA, AND DISCOVER CARD

**“Relentlessly Helping Our Customers Achieve Success by Being an Integral, Caring and Innovative Mechanical Solutions Provider.”**

<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$389.70





Vendor	No.	Description	Unit Price	Total	<div><div>CSM MECHANICAL, LLC 7400 HICKORY VALLEY DRIVE FENTON, MI 48430 TEL: 248.521.0981 FAX: 517.540.9704</div><a href="http://WWW.CSMMECHANICAL.COM">WWW.CSMMECHANICAL.COM</a></div>									
	1	Rigging Equipment Rental	\$275.00	\$275.00	CUSTOMER P.O. NO.		DATE OF INVOICE		9/28/2020		CSM JOB #			
	5	2" x 50' Fire Hose	\$127.50	\$637.50	CONTACT:		Terry Moore		PHONE NO.		(313) 829-7207 20 OMIDD 010			
	1	40' of 3/4" Black Pipe	\$84.00	\$84.00	JOB NAME		Bar screen Cleaning in OMIDD Wet Well							
	1	Pitch Fork and Hand Tools	\$123.45	\$123.45	ADDRESS		11010 E. State Fair St. Detroit, Michigan 48234							
	1	Misc. Consumables	\$97.33	\$97.33	SERVICE REQUESTED OR TROUBLE REPORTED:									
	1	Fire Hose Nozzle	\$32.87	\$32.87	Blockage on Pump #2									
			\$0.00		MAKE		MODEL		SERIAL NO.		WARRANTY			
			\$0.00								CONTRACT			
			\$0.00								SERVICE CONTRACT			
			\$0.00								NORMAL			
ENVIRONMENT CHECK LIST					SERVICE PERFORMED:									
REFRIGERANT	CHRG. CODE	TYPE REFRIG.		SYS QTY.	EQUIPMENT	CHANGED OUT OR REPLACED? Y/N								
	1	RECOVERED? Y/N	N/A	QTY.		DIS-MANTLED? Y/N								
	2	RECYCLED? Y/N	N/A	QTY.		REFRIGERATOR DISPOSAL? Y/N								
	3	RECLAIMED? Y/N	N/A	QTY.										
		RETURNED TO THIS SYSTEM? Y/N	N/A	QTY.		OUR PERSONNEL RECOMMENDS								
	4	DISPOSAL			OWNERS INITIALS		ACCEPTED		DECLINED					
		NON USABLE? Y/N	N/A	QTY.										
	5	DISPOSAL												
	DATE	SERVICE ENGINEER	HOURS			LABOR AMOUNT	EQUIPMENT RENTAL							
			ST	OT	DT									
9/21/2020	Travis Loruss	8			\$760.00	CARTAGE								
9/21/2020	Taylor Kubik	8			\$760.00	MATERIAL		\$1,250.15						
9/21/2020	Mark Kowalski	8			\$760.00	FED REFRIG FEE								
9/19/2020	Taylor Kubik	5			\$475.00	TAX								
					\$0.00	VEH/TOOL ALLOW		2 \$150.00						
					\$0.00	TOTAL LABOR		\$2,755.00						
					\$0.00									
					\$0.00	TOTAL		\$4,155.15						
TERMS NET 10 DAYS.					NOTE. A DELIQUENCY CHARGE OF 1-1/2% PER MONTH (BUT NOT IN EXCESS OF THE LAWFUL MAXIMUM) ON ANY AMOUNT 60 DAYS IN ARREARS IF NOT RECEIVED PRIOR TO THE NEXT MONTHLY BILLING DATE AND THEREAFTER ON ALL AMOUNTS 60 DAYS OR MORE IN ARREARS UNTIL PAID.					CUSTOMERS SIGNATURE				
										SERVICEMAN SIGNATURE				
										COMPLETE				
										INCOMPLETE				

**Detroit Elevator Company**  
2121 Burdette  
Ferndale, MI 48220  
Phone: (248) 591-7484 Fax: (248) 591-7491  
www.detroitellevator.com

## INVOICE

Invoice #

**188128**

|||||

**Bill To:** Oakland Macomb Inter. Drain Dist.  
c/o OMIDD  
1 Public Works  
Waterford, MI 48328

**Account:** Northeast Pump Station-maint  
11001 State Fair  
Detroit, MI 48205

**Account #:** NORTHEASTPUMP-M

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

*JL R*  
**10/9/20**

<b>Date</b>	Jul 09,2020	<b>Terms</b>	Net 30 Days	<b>Route</b>	Vaughan	<b>Job #</b>	47729
<b>Inv #</b>	188128	<b>PO #</b>	Contract	<b>Territory</b>	Joyce	<b>Type</b>	Maintenance

Quantity	Description	Taxable	Measure	Price	Amount
1.00	Routine Maintenance June, 2020	No	hour	182.00	\$182.00
Routine Maintenance June, 2020				<b>Taxable</b>	\$0.00
				<b>Non-Taxable</b>	\$182.00
				<b>Sub-Total</b>	\$182.00
				<b>Sales Tax</b>	\$0.00
				<b>TOTAL</b>	\$182.00

Page 1



**Detroit Elevator Company**  
2121 Burdette  
Ferndale, MI 48220

**Account #** NORTHEASTPUMP-M  
Northeast Pump Station-maint

**Invoice #** 188128

**Amount** \$182.00

**Paid**

\$

PLEASE DETACH THIS PORTION AND RETURN WITH PAYMENT

INVOICE DATE: SEPTEMBER 21, 2020  
 INVOICE NO.: 1512133

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

**82912 - 149997 - 731073 - 5089 - 1-3020 - Ch. 21**  
**v# 4978 exp. 4/20/30**

ATTN: JOHN BASCH

CLIENT/MATTER NO.: 012840-00424



10/9/20

RE: REVISION OF OAKLAND COUNTY PURCHASE ORDER FOR MISCELLANEOUS WORK

*PRIVILEGED AND CONFIDENTIAL*

FOR PROFESSIONAL SERVICES THROUGH AUGUST 31, 2020

USD

TOTAL FEES CURRENT INVOICE ..... \$ 1,155.00

TOTAL CURRENT INVOICE ..... \$ 1,155.00

OUTSTANDING INVOICES ON THE MATTER BILLED ON THIS CURRENT INVOICE AS OF SEPTEMBER 21, 2020

<u>INVOICE</u>	<u>DATE</u>	<u>BILLED VALUE</u>	<u>PAYMENTS</u>	<u>OUTSTANDING</u>
1503601	08/18/20	1,750.00	(0.00)	1,750.00

TOTAL OUTSTANDING FROM PRIOR INVOICES ..... \$ 1,750.00

TOTAL AMOUNT DUE ..... \$ 2,905.00

**MK 9/28/20**

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  (Please Reference Invoice Numbers)	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 021 000 021 Swift Code: CHASUS33 (International) Account# 38852  (Please Reference Invoice Numbers)



# Inland Lakes Landscaping Corp.

560 S. Telegraph Rd.

Pontiac, MI 48341

## Invoice

82912 - 155020 - 730373 - 4436 - Ch. 21 v# 16044

Reviewed and approve this invoice

GPN 10/9/20

Date	Invoice #
10/2/2020	24627
Terms	

Bill To	Job Name
OCWRC C/O George Nichols Bldg 95 West-One Public Works Dr Waterford, MI 48328	Oakland Macomb Toepher Site

Qty	Description	Rate	Amount
1	LS Vegetation Maintenance: 9/11/2020 - Applied Herbicide Treatment to kill vegetation 10/2/2020 - Mow, Trim Brush, Clean-up debris from site. Sales Tax	1,625.00  6.00%	1,625.00  0.00

			<b>Total</b>	\$1,625.00
Phone #	Fax #	E-mail	<b>Payments/Credits</b>	\$0.00
(248) 338-8088	(248) 338-6705	inlandlakes@comcast.net	<b>Balance Due</b>	\$1,625.00

# Inland Lakes Landscaping Corp.

560 S. Telegraph Rd.  
Pontiac, MI 48341

Reviewed and approve this invoice  
*GP* 10/9/20

## Invoice

**82912 - 155020 - 730373 - 4436 - Ch. 21 v# 16044**

Date	Invoice #
10/2/2020	24628
Terms	

Bill To	Job Name
OCWRC C/O George Nichols Bldg 95 West-One Public Works Dr Waterford, MI 48328	Oakland Macomb Interceptor Drain Control Structure #6 12620 15 Mile Road Sterling Heights, MI 48312

Qty	Description	Rate	Amount
1	LS Vegetation Maintenance: 9/11/2020 - Applied Herbicide Treatment to kill vegetation. 10/2/2020 - Mow, Trim Brush, Clean-up debris from site. Sales Tax	1,125.00  6.00%	1,125.00  0.00

			<b>Total</b>	\$1,125.00
Phone #	Fax #	E-mail	<b>Payments/Credits</b>	\$0.00
(248) 338-8088	(248) 338-6705	inlandlakes@comcast.net	<b>Balance Due</b>	\$1,125.00



Oakland-Macomb Interceptor Drain Drainage District  
 c/o Oakland County Water Resources Commissioner  
 One Public Works Drive  
 Waterford, MI 48328  
 248-858-0958

Invoice Date: 10/9/2020  
 Jacobs Project Number: 697317CH  
 Sequential Invoice Number: 25  
 Jacobs Invoice Number: 697317CH025

**82912 - 149662- 730639 -1-3275 - STD 5216 - Ch. 21 - std v# 20192 exp. 5/15/21 li# 39942**

# INVOICE

## OMIDDD System-wide Odor/Corrosion Study

This invoice includes labor and expenses for the period  
 From August 22, 2020 through October 02, 2020

10/13/20

Authorized Amount	\$	531,447.00
Current Invoice	\$	19,230.12
Total Invoiced to Date	\$	487,612.44
Remaining Budget	\$	43,834.56

Total Amount Due	\$	19,230.12
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## STATUS OF PREVIOUS INVOICES

Date	Invoice Number	Sequential Invoice Number	Invoiced Amount	Paid Date	Paid Amount	Amount Outstanding
09/27/2018	381161194	1	\$35,231.70	11/14/2018	\$35,231.70	\$0.00
11/07/2018	697317CH001	2	\$18,104.11	12/06/2018	\$18,104.11	\$0.00
11/13/2018	697317CH002	3	\$11,916.34	12/24/2018	\$11,916.34	\$0.00
12/17/2018	697317CH003	4	\$17,294.97	01/29/2019	\$17,294.97	\$0.00
01/09/2019	697317CH004	5	\$11,205.83	01/24/2019	\$11,205.83	\$0.00
02/15/2019	697317CH005	6	\$14,963.22	03/27/2019	\$14,963.22	\$0.00
03/11/2019	697317CH006	7	\$23,348.82	03/27/2019	\$23,348.82	\$0.00
04/17/2019	697317CH008	8	\$21,792.04	05/17/2019	\$21,792.04	\$0.00
05/21/2019	697317CH009	9	\$10,413.99	06/28/2019	\$10,413.99	\$0.00
06/05/2019	697317CH010	10	\$14,856.85	07/31/2019	\$14,856.85	\$0.00
08/13/2019	697317CH011	11	\$64,654.11	08/30/2019	\$64,654.11	\$0.00
09/17/2019	697317CH012	12	\$25,928.19	10/31/2019	\$25,928.19	\$0.00
10/21/2019	697317CH013	13	\$22,538.94	11/27/2019	\$22,538.94	\$0.00
11/04/2019	697317CH014	14	\$8,692.74	12/06/2019	\$8,692.74	\$0.00
12/04/2019	697317CH015	15	\$12,547.23	01/23/2020	\$12,547.23	\$0.00
01/10/2020	697317CH016	16	\$27,522.34	03/16/2020	\$27,522.34	\$0.00
01/31/2020	697317CH017	17	\$13,617.64	03/16/2020	\$13,617.64	\$0.00
03/02/2020	697317CH018	18	\$11,928.66	04/01/2020	\$11,928.66	\$0.00
04/03/2020	697317CH019	19	\$14,163.86	04/21/2020	\$14,163.86	\$0.00
05/08/2020	697317CH020	20	\$21,634.51	06/09/2020	\$21,634.51	\$0.00
06/04/2020	697317CH021	21	\$24,631.95	07/16/2020	\$24,631.95	\$0.00
07/08/2020	697317CH022	22	\$22,988.97	09/26/2020	\$22,988.97	\$0.00
08/04/2020	697317CH023	23	\$6,484.91	09/26/2020	\$6,484.91	\$0.00
08/31/2020	697317CH024	24	\$11,920.40	09/26/2020	\$11,920.40	\$0.00
TOTAL OUTSTANDING AMOUNT					<u>\$0.00</u>	

Payment terms: 30 NET

To ensure accurate posting, please note the invoice number on your check.

### Electronic payment details:

Beneficiary Bank: Wells Fargo  
 ABA No: 121000248  
 Account No (USD): 4121034003  
 SWIFT: WFBUS6S

### Checks payable to:

CH2M HILL ENGINEERS, INC.  
 P.O. Box 201869  
 Dallas, TX 75320 - 1869



**KENNEDY**  
INDUSTRIES

INNOVATE  
SOLVE  
MONITOR  
REPAIR

INVOICE		
DATE	NUMBER	PAGE
5/28/2020	618284	1 of 1

B OMI100  
I OAKLAND MACOMB INTERCEPTOR DRA  
L 1 PUBLIC WORKS DR.  
L WATERFORD, MI 48328

S NORTH EAST PUMPING STATION  
H 8598 E. STATE FAIR AVE  
I DETROIT, MI 48234  
P

T  
O

T  
O

**82912 - 149090 - 730660 - 5825 - Ch. 21 - v#239 6/30/22**

*JL R*

10/9/20

ATTENTION:

TERRY MOORE

313-8297207

TMOORE@METCOSERVICES.COM

CUSTOMER REF/PO #		JOB #	JOB TITLE		SLP	SHIPPING TYPE	
		0105114	NEPS, FIELD SERVICE, SANITARY		KES/SPM	FIELD SERVICE	
QUANTITY		PART NO.	DESCRIPTION			UNIT PRICE	EXTENDED
B/O	Ship						
0.00	6.50	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN(S) ONSITE ON 05/21/20. PLEASE SEE THE ATTACHED SERVICE REPORT. <i>TM</i>			\$110.00	\$715.00
0.00	1.00	TRAVEL	SERVICE VEHICLE			\$33.00	\$33.00

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

This invoice is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer Warranty available at [www.kennedyind.com](http://www.kennedyind.com) which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.

**\*TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE**  
**\*A 7% PER ANNUM SERVICE CHARGE SHALL BE APPLIED TO ANY BALANCE**  
**\*CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE**

SUBTOTAL: \$748.00

TAX: \$0.00

TOTAL: \$748.00

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

**[www.KennedyInd.com](http://www.KennedyInd.com)**



# 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"

82912 - 149090 - 730660 - Ch 21 -

5469 v# 7755

li# 41132

exp. 7/30/21

*John R.*

10/9/20

# 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
920567	0	001	9/2/2020	9/29/2020	93245

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	\$654.50	-	\$654.50	\$654.50	-	-
Totals:		\$654.50		\$654.50	\$654.50		
Less Retained:				-			
Invoice Total:				\$654.50			

*TM*

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 9/2/2020

complete electrical construction

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





# MOTOR CITY ELECTRIC TECHNOLOGIES INC.

AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL

DETROIT, MI 48213-1151

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

"AN EQUAL OPPORTUNITY EMPLOYER"

82912 - 149090 - 730660 - Ch 21 -

5469 v# 7755

li# 41132

exp. 7/30/21

10/9/20

*John R.*

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

Customer  
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	9/24/2020	9/29/2020	93246

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	\$192.50	-	\$192.50	\$192.50	-	-
Totals:		\$192.50		\$192.50	\$192.50		
Less Retained:				-			
Invoice Total:				\$192.50	<i>TM</i>		

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 9/24/2020

complete electrical construction

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



**NTH Consultants, Ltd.**

Infrastructure Engineering and  
Environmental Services

# INVOICE

**82912-149662-1-2842-731906-STD-omid ch. 21 - 2603 V: 4716-LI#24138 Exp: 12/31/21**

*JL R*

10/9/20

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

**Invoice # : 4  
Project : 61-200209  
Invoice Group : HSM/CSE  
Invoice Date : 10/7/2020**

**Attention: Sid Lockhart**

**For Professional Services Rendered from 8/29/2020 - 9/25/2020**

Provide Engineering and Consulting Services for the OMID NESPS Safety Manual and Crane Support Evaluation. (D419)

<b>Task 01</b>	<b>Health and Safety Manual</b>	<b>\$33,428.00</b>
<b>Task 02</b>	<b>Crane Support Evaluation</b>	<b>\$14,359.00</b>
	<b>Preliminary Budget Amount</b>	<b>\$47,787.00</b>
	<b>Percent Complete:</b>	<b>43.62%</b>

Analysis of Costs		This Invoice	Cumulative
Direct Salaries	\$	1,651.89	\$ 4,402.90
Overhead %	188.00 \$	3,105.55	8,277.45
Total Regular Labor Expense		4,757.44	12,680.35
Premium Labor Cost		0	0
<b>Total Direct Labor</b>		<b>4,757.44</b>	<b>12,680.35</b>
<b>Profit / Fixed Fee %</b>	12.00	<b>570.89</b>	<b>1,521.64</b>
Direct Expenses Charge		0.00	3,194.86
Expense Multiplier %	5.00	0.00	159.75
Direct Subcontractor Charge		0.00	3,100.00
Subcontractor/Subconsultant Multiplier %	6.00	0.00	186.00
Direct Unit Rate Charge		0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>		<b>0.00</b>	<b>6,640.61</b>
<b>Total Costs:</b>		<b>5,328.33</b>	<b>20,842.60</b>
<b>Total Due This Invoice</b>		<b>\$ 5,328.33</b>	<b>\$ 20,842.60</b>

**REMIT TO:** NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459  
Please include Project No. and Invoice No. on remittance.

**TERMS:** Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



**NTH Consultants, Ltd.**

Infrastructure Engineering and  
Environmental Services

**INVOICE**

**82912 - 149667 - 731444 - 2603 1-3019 - Ch. 21 - engcon v#4716**  
**exp. 12/31/21**  
**li# 42499**

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

*JL R*

10/12/20

Invoice # : 6  
Project : 61-190439  
Invoice Group : CS9  
Invoice Date : 10/7/2020

Attention: Sid Lockhart

For Professional Services Rendered from 8/29/2020 - 9/25/2020

Provide engineering services for the design of a new hydraulic control gate to be installed in the existing OMID Control Structure No. 9(CS-9).

Task 01 Gate Design \$189,426.00

Preliminary Budget Amount \$189,426.00  
Percent Complete: 83.71%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 1,634.53	\$ 15,051.62
Overhead %	188.00	3,072.92	28,297.05
Total Regular Labor Expense		4,707.45	43,348.67
Premium Labor Cost		0	0
<b>Total Direct Labor</b>		<b>4,707.45</b>	<b>43,348.67</b>
<b>Profit / Fixed Fee %</b>	12.00	<b>564.89</b>	<b>5,201.83</b>
Direct Expenses Charge		0.00	241.55
Expense Multiplier %	5.00	0.00	12.10
Direct Subcontractor Charge		3,297.26	103,558.43
Subcontractor/Subconsultant Multiplier %	6.00	197.84	6,213.52
Direct Unit Rate Charge		0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>		<b>3,495.10</b>	<b>110,025.60</b>
<b>Total Costs:</b>		<b>8,767.44</b>	<b>158,576.10</b>
<b>Total Due This Invoice</b>		<b>\$ 8,767.44</b>	<b>\$ 158,576.10</b>

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459  
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



NTH Consultants, Ltd.

Infrastructure Engineering and  
Environmental Services

INVOICE

82912 - 149667 - 730639 - 2603 - 1-3019 - Ch. 21 - engcon v# 4716  
exp. 12/31/21

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

**JTB** 10/9/20  
*Sid Lockhart*

Invoice # : 16  
Project : 61-190078  
Invoice Group : NI-EA  
Invoice Date : 10/7/2020

Attention: Sid Lockhart

For Professional Services Rendered from 8/29/2020 - 9/25/2020

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

Preliminary Budget Amount **\$2,273,833.00**  
Percent Complete: 65.80%

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 7,030.80	\$ 227,802.17
Overhead %	188.00	13,217.90	428,268.11
Total Regular Labor Expense		20,248.70	656,070.28
Premium Labor Cost		0	0
<b>Total Direct Labor</b>		<b>20,248.70</b>	<b>654,809.18</b>
<b>Profit / Fixed Fee %</b>	12.00	<b>2,429.84</b>	<b>78,728.44</b>
Direct Expenses Charge		0.00	22,584.33
Expense Multiplier %	5.00	0.00	1,129.27
Direct Subcontractor Charge		27,905.02	695,884.73
Subcontractor/Subconsultant Multiplier %	6.00	1,674.30	41,753.17
Direct Unit Rate Charge		0	0
<b>Total Other Direct Charges Reimbursables</b>		<b>29,579.32</b>	<b>761,351.50</b>
<b>Total Costs:</b>		<b>52,257.86</b>	<b>1,496,150.22</b>
<b>Total Due This Invoice</b>		<b>\$ 52,257.86</b>	<b>\$ 1,496,150.22</b>

REMIT TO: NTH Consultants, Ltd. - 41780 Six Mile Road - Suite 200 - Northville MI - 48168-3459  
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



**NTH Consultants, Ltd.**

Infrastructure Engineering and  
Environmental Services

# INVOICE

82912 - 149662 - 730639 - 2603 - 1-3015 Ch. 21 - engcon v# 4716 exp. 12/31/21  
li# 24138

*Jed R*

10/9/20

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

Invoice # : 20  
Project : 61-190044  
Invoice Group : REPAIRS  
Invoice Date : 10/7/2020

Attention: Sid Lockhart

For Professional Services Rendered from

08/29/2020 - 09/25/2020

OMID System Immediate Repairs

AMP/Inspection Reports (Task 01)	\$4,587.37
Rehabilitation Design (Task 02)	\$71,617.66
Construction Observation (Task 03)	\$178,109.97
	<u>\$254,315.00</u>

Analysis of Costs		This Invoice	Cumulative
Direct Salaries (Task 01 & 02)		\$ 43.25	\$ 24,110.69
Overhead %	188.00	81.31	45,328.09
Total Regular Labor Expense		124.56	69,438.78
Premium Labor Cost		0	0
<b>Total Direct Labor</b>		<b>124.56</b>	<b>69,438.78</b>
<b>Profit / Fixed Fee %</b>	12.00	<b>14.95</b>	<b>8,332.65</b>
Direct Expenses Charge		0.00	330.08
Expense Multiplier %	5.00	0.00	66.51
Direct Subcontractor Charge		0.00	9,301.50
Subcontractor/Subconsultant Multiplier %	5.00	0.00	465.12
Direct Unit Rate Charge		0.00	0.00
<b>Total Other Direct Charges Reimbursables</b>		<b>0.00</b>	<b>10,163.21</b>
<b>Total Costs:</b>		<b>139.51</b>	<b>87,934.64</b>
<b>Total Due This Invoice</b>		<b>\$ 139.51</b>	<b>\$ 87,934.64</b>

REMIT TO: NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459  
Please include Project No. and Invoice No. on remittance.

TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



**NTH Consultants, Ltd.**

Infrastructure Engineering and  
Environmental Services

# INVOICE

**84915 - 149015 - 730639 - 2603 - 1-2232 Ch 21 - eng con  
v#4716 exp. 12/31/21 li#24138**

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

*Jed R* 10/9/20

Invoice # : 53  
Project : 61-150162  
Invoice Group : NESPS CCA  
Invoice Date : 10/7/2020

Attention: Sid Lockhart

For Professional Services Rendered from

08/29/2020 - 09/25/2020

CCA and Construction Observation Services for the Emergency Rehabilitation of the NESPS Discharge Chamber

CCA / Construction Observation (Task 01)	\$437,458.04
CIP Concrete Riser Substitution (Task 02)	\$3,041.52
Continuation of NESPS CCA (Task 03)	\$522,070.69
Continuation of GLWA Coordination (Task 04)	\$41,800.92
Sterling Heights Sewer Grout Investigation (Task 05)	\$7,507.83
<b>Preliminary Budget Amount</b>	<b>\$1,011,879.00</b>
<b>Percent Complete:</b>	<b>97.94%</b>

Analysis of Costs		This Invoice	Cumulative
Direct Salaries		\$ 416.34	\$ 242,538.18
Overhead %	188.00	782.72	455,971.76
Total Regular Labor Expense		1,199.06	698,509.94
Premium Labor Cost		0	0
<b>Total Direct Labor</b>		<b>1,199.06</b>	<b>698,509.94</b>
<b>Profit / Fixed Fee %</b>	12.00	<b>143.89</b>	<b>83,821.28</b>
Direct Expenses Charge		0.00	37,430.90
Expense Multiplier %	5.00	0.00	1,871.55
Direct Subcontractor Charge		0.00	156,860.04
Subcontractor/Subconsultant Multiplier %	5.00	0.00	7,843.01
Direct Unit Rate Charge		0.00	4,655.59
<b>Total Other Direct Charges Reimbursables</b>		<b>0.00</b>	<b>208,661.09</b>
<b>Total Costs:</b>		<b>1,342.95</b>	<b>990,992.31</b>
<b>Total Due This Invoice</b>		<b>\$ 1,342.95</b>	<b>\$ 990,992.31</b>

**REMIT TO:** NTH Consultants, Ltd. – 41780 Six Mile Road – Suite 200 – Northville MI – 48168-3459  
Please include Project No. and Invoice No. on remittance.

**TERMS:** Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

Payment for all invoices is expected as per contract terms. All retainers are held and applied to final invoice for a project. Checks will be issued for any amounts collected as retainers that exceed the final invoice. Call 248-553-6300 with questions.



28294 Beck Road Wixom, MI 48393  
800-419-5199 FAX (248) 374-6402

www.PMTech.org

82912-149090-730660 Contract# 5821 V#238 Exp 6/28/22 LI# 42705

# Invoice

Date Invoice #

9/29/2020 0000143106

## Bill To:

County Of Oakland  
A Michigan Constitutional Corp  
2100 Pontiac Lake Road  
Waterford MI 48328

10/9/20

## Site Address:

Northeast Sewage Pumping Station - Generator  
3  
11001 East State Fair  
Detroit MI 48234

PO Number		Terms	Make	Model	Serial Number
Darrin G - Contract		NET 30 DAYS	CAT/KATO	A269500000	13669-03
KW	PM Tech's Other Locations			A LATE FEE of 1.5% per month, 18% per year, of the unpaid balance unpaid balance will be added to past due amounts	Remit To:  28294 Beck Road Wixom, MI 48393
1825	2385 Wilshire Drive Jenison, MI 49428 1695 Dalton Drive New Carlisle, OH 45344				

DESCRIPTION	QTY	PRICE EACH	AMOUNT
The original Service Call is included in this quote. If this quote is NOT accepted within 10 days, Service Call will be invoiced.	1.00	433.00	433.00
Quote 141043			
FUEL FLOAT SWITCH	1.00	203.22	203.22
Miscellaneous Materials	1.00	200.00	200.00
Shop Surcharge	1.00	41.12	41.12
Technician labor.	1.00	822.50	822.50
9/25/2020			

Visa, Master Card, Discover or American Express 3% credit card processing fee will be added	Subtotal	\$1,699.84
Sign: _____ Inv # _____	Sales Tax	\$0.00
Card #: _____	Balance Due	\$1,699.84
Exp Date: _____ Security Code: _____	This Invoice is for the Services mentioned above only, if other repair work was completed it will be invoiced separately.	

Conditions of Sale and Limitations of Liability are on back of invoice.

Warranty Disclaimer: parts and labor not covered by the

manufactures written warranty are the owner's responsibility to reimburse PM Technologies for reasonable costs incurred.



28294 Beck Road Wixom, MI 48393  
800-419-5199 FAX (248) 374-6402  
www.PMTech.org

# Invoice

Date 9/29/2020 Invoice # 0000143242

82912-149090-730660 Contract# 5821 V#238 Exp 6/28/22 LI# 42705

**Bill To:**

County Of Oakland  
A Michigan Constitutional Corp  
2100 Pontiac Lake Road  
Waterford MI 48328

10/9/20

**Site Address:**

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

PO Number		Terms	Make	Model	Serial Number
contract		NET 30 DAYS	CAT/KATO	A269500000	13669-05
KW	PM Tech's Other Locations			A LATE FEE of 1.5% per month, 18% per year, of the unpaid balance unpaid balance will be added to past due amounts	Remit To:  28294 Beck Road Wixom, MI 48393
1825	2385 Wilshire Drive Jenison, MI 49428 1695 Dalton Drive New Carlisle, OH 45344				

DESCRIPTION	QTY	PRICE EACH	AMOUNT
Service Call - rupture basin alarm	1.00	185.00	185.00
Labor	6.75	115.00	776.25
9/25/2020			
Discount - also on site for other generator	-1.00	185.00	-185.00

Visa, Master Card, Discover or American Express 3% credit card processing fee will be added	Subtotal	\$776.25
Sign: _____ Inv # _____	Sales Tax	\$0.00
Card #: _____	Balance Due	\$776.25
Exp Date: _____ Security Code: _____	This Invoice is for the Services mentioned above only, if other repair work was completed it will be invoiced separately.	

Conditions of Sale and Limitations of Liability are on back of invoice.  
manufactures written warranty are the owner's responsibility to reimburse PM Technologies for reasonable costs incurred.

Warranty Disclaimer: parts and labor not covered by the





# PMA Consultants

226 W. Liberty Street ■ Ann Arbor, MI 48104

Tel: 734.769.0530 ■ Fax: 734.663.9561

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

October 5, 2020

Invoice No: 03559.01-4

**82912 - 149667 - 731444 - 5158 - 1-3020 - Ch. 21 - engcon**  
**v# 16918**  
**exp. 6/30/22**

10/9/20

Project 03559.01 Oakland-Macomb Interceptor Drainage 2020

**Professional Services from September 1, 2020 to September 30, 2020**

## Professional Personnel

	Hours	Rate	Amount
Zann, John	29.00	94.00	2,726.00
Totals	29.00		2,726.00
<b>Total Labor</b>			<b>2,726.00</b>

## Additional Fees

Overhead	149.10 % of 2,726.00	4,064.47
Profit	10.00 % of 6,790.47	679.05
<b>Total Additional Fees</b>		<b>4,743.52</b>

## Billing Limits

	Current	Prior	To-Date
Total Billings	7,469.52	19,060.14	26,529.66
Limit			450,000.00
Remaining			423,470.34

**Total this Invoice \$7,469.52**

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](mailto:szeisler@pmaconsultants.com)



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

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

*John Brown*

10/9/20

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	7/14/2020	9/23/2020	12329

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$665.00	-	\$665.00	\$665.00	-	-
Totals:		\$665.00		\$665.00	\$665.00		
Less Retained:				-			
Invoice Total:				\$665.00			

*TMM*

UNIT SUB XFRM 1A MV FEEDER REPAIRS

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.

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DETROIT, MI 48213-1151  
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"AN EQUAL OPPORTUNITY EMPLOYER"

# INVOICE

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

*John Brown*

10/9/20

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	7/17/2020	9/23/2020	12354

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$1,178.70	-	\$1,178.70	\$1,178.70	-	-
Totals:		\$1,178.70		\$1,178.70	\$1,178.70		
Less Retained:							
Invoice Total:				\$1,178.70			

*TM*

complete electrical construction

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DETROIT, MI 48213-1151  
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"AN EQUAL OPPORTUNITY EMPLOYER"

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

# INVOICE

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contrac

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	7/2/2020	9/23/2020	12355

JOEL BROWN

*Joel Brown*

10/9/20

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$712.00	-	\$712.00	\$712.00	-	-
Totals:		\$712.00		\$712.00	\$712.00		
Less Retained:				-			
Invoice Total:				\$712.00			

*TM*

BAYVIEW CONSTRUCTION PROJECT

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"

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

*John R.*

10/9/20

# INVOICE

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contrac

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	9/10/2020	9/24/2020	12357

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$1,197.00	-	\$1,197.00	\$1,197.00	-	-
Totals:		\$1,197.00		\$1,197.00	\$1,197.00		
Less Retained:				-			
Invoice Total:				\$1,197.00			

*TM*

TROUBLESHOOT P4 OPERATIONAL ISSUES

complete electrical construction

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Rotor Electric Company of Michigan, LLC.

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DETROIT, MI 48213-1151  
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"AN EQUAL OPPORTUNITY EMPLOYER"

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

INVOICE

JOEL BROWN

10/9/20

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contrac

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	8/18/2020	9/24/2020	12359

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$3,499.32	-	\$3,499.32	\$3,499.32	-	-
Totals:		\$3,499.32		\$3,499.32	\$3,499.32		
Less Retained:				-			
Invoice Total:				\$3,499.32			

TMM

CRANE DISCONNECT REPLACEMENT

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  
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"AN EQUAL OPPORTUNITY EMPLOYER"

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

*Joel Brown* 10/9/20

# INVOICE

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contrac

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	9/16/2020	9/25/2020	12360

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$4,343.97	-	\$4,343.97	\$4,343.97	-	-
Totals:		\$4,343.97		\$4,343.97	\$4,343.97		
Less Retained:							
Invoice Total:				\$4,343.97	<i>TM</i>		

PUMP P1

TRIP TROUBLE SHOOTING

REPAIRS

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.

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

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

*John Brown*

10/9/20

INVOICE

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contrac

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	9/16/2020	9/25/2020	12361

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$2,666.48	-	\$2,666.48	\$2,666.48	-	-
Totals:		\$2,666.48		\$2,666.48	\$2,666.48		
Less Retained:				-			
Invoice Total:				\$2,666.48			

*TM*

P2 AND P4 MOTOR MAINTENANCE

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"

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

*Handwritten signature*

10/9/20

INVOICE

OMID  
1 PUBLIC WORKS DRIVE  
WATERFORD, MI 48328-

Customer  
PO Number  
Professional Services Contrac

JOEL BROWN

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	9/14/2020	9/25/2020	12362

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$2,326.47	-	\$2,326.47	\$2,326.47	-	-
Totals:		\$2,326.47		\$2,326.47	\$2,326.47		
Less Retained:				-			
Invoice Total:				\$2,326.47			

*TM*

PUMP P5 AND P6  
MOTOR MAINTENANCE

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."

82912 - 149662 - 730373 - Project #1-3014 - Ch. 21 - 5807 v#  
22125  
li# 42614  
exp. 6/28/22

*John Brown*

Rotor Electric Company of Michigan, LLC.



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

10/9/20

INVOICE

*TM* 10-1-20

OCWRC-WATERFORD  
2636 DIXIE HWY  
WATERFORD TOWNSHIP, MI 48328-

Customer  
PO Number  
005461

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719706	0	001	7/13/2020	9/30/2020	12364

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	ELECTRICAL EQUIPMENT MAINTENANCE AND	\$1,910.00	-	\$1,910.00	\$1,910.00	-	-
	Totals:	\$1,910.00		\$1,910.00	\$1,910.00		
	Less Retained:			-			
	Invoice Total:			\$1,910.00			

NESPS CATASTROPHIC FAILURE

GENERATOR SYSTEM

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"

82912 - 149662 - 730373 - Project #1-3014 - Ch. 21 - 5807  
v# 22125  
li# 42614  
exp. 6/28/22

*John Brown*

10/9/20

INVOICE

*TMM*

10-1-2020

OCWRC-WATERFORD  
2636 DIXIE HWY  
WATERFORD TOWNSHIP, MI 48328-

Customer  
PO Number  
005461

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719706	0	001	5/28/2020	9/30/2020	12365

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	ELECTRICAL EQUIPMENT MAINTENANCE AND	\$1,460.00	-	\$1,460.00	\$1,460.00	-	-
	Totals:	\$1,460.00		\$1,460.00	\$1,460.00		
	Less Retained:			-			
	Invoice Total:			\$1,460.00			

CATASTROPHIC FAILURE

PROOF OF CONCEPT

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."

# Project Application and Project Certificate for Payment, Construction Manager as Adviser Edition

**TO OWNER:** PROJECT: OMIDDD NESPS Mech. And Elec. Improvements  
Oakland Macomb Interceptor Drain Drainage District c/o Oakland County WRC  
One Public Works Drive, Building 95 West Waterford, MI 48328-1907

**ATTENTION:** VIA CONSTRUCTION MANAGER:  
Joel T. Brown P.E. CJ Pokorny  
Walsh Construction Company II, LLC 3031 West Grand Blvd. Ste.640  
Detroit, MI 48202

**APPLICATION NO:** 220008 Pre-Con 8  
**PERIOD TO:** 9/30/2020  
**OMIDDD Proj#** 1-3020  
**FUND** 82912 **PROGRAM:** 149667  
**ACCOUNT** 730373  
**ACTIVITY** ENGCON  
**VENDOR ID** 23191 **LINE ITEM** 43331 **Expiration:** 12/16/2022

**Distribution to:**  
**OWNER:** ☒  
**CONSTRUCTION MANAGER:** ☒  
**ARCHITECT:** ☐  
**OTHER:** ☐

## PROJECT APPLICATION FOR PAYMENT

Application is made for Payment, as shown below, in connection with the Project AIA Document G703, Schedule of Values, is attached for payment.

1. TOTAL CONTRACT SUMS (Item D Totals)	\$	570,000.00
2. TOTAL NET CHANGES BY CHANGE ORDERS		\$4,042,914.45
3. TOTAL CONTRACT SUM TO DATE	\$	4,612,914.45
4. TOTAL COMPLETED & STORED TO DATE (Item G Totals)	\$	1,198,299.81
	\$	-
5. LESS PREVIOUS TOTAL PAYMENTS (Item J Totals)		\$1,107,352.17
6. CURRENT PAYMENT DUE (Item A Totals)	\$	90,947.64

The undersigned Construction Manager certifies that to the best of its knowledge, information and belief this Project Application for Payment is an accurate compilation of the Contract's Application for Payment, attached hereto.

## CONSTRUCTION MANAGER:

By: Dave Pauline Date: 10/1/2020

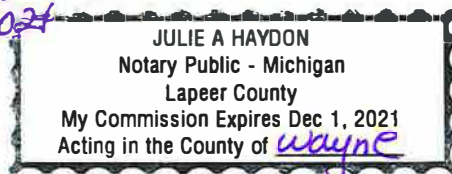
State of: Michigan

County of: Wayne

Subscribed and sworn to before me this 14th

Notary Public Julie A. Haydon day of October

My Commission expires: 12-01-2021



## PROJECT CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on evaluation of the work and the data compromising this Application, the Construction Manager certifies to the Owner that to the best of its knowledge, information and belief the Work has progressed as indicated; the quality of the Work is in accordance with the Contract Documents; and the Construction Manager recommends to the Owner and Architect that the Contractors be paid the AMOUNTS set forth in the attached Schedule of Values for Payment.

JTB 10/19/20

TOTAL OF AMOUNTS CERTIFIED \$ 90,947.64

## CONSTRUCTION MANAGER:

By: Dave Pauline Date: 10/1/2020

In accordance with the Contract Documents, based on evaluation of the work and the data compromising this Application, the Construction Manager's recommendation, the Architect certifies to the Owner that to the best of its knowledge, information and belief the Work has progressed as indicated; the quality of the Work is in accordance with the Contract Documents; and the Contractors are entitled to payments of the AMOUNTS set forth in the attached Schedule of Values for Payment.

## ARCHITECT:

By: \_\_\_\_\_ Date: \_\_\_\_\_

## **Agenda Item No. 15**

Other Business

## **Agenda Item No. 16**

Adjourn