AGENDA

Oakland-Macomb Interceptor Drain Drainage Board
Macomb and Oakland Counties

November 18, 2026 – 11:30 a.m.
Office of the Macomb County Public Works Commissioner
21777 Dunham Road, Clinton Township, Michigan, and Microsoft Teams

1. Call meeting to order

   Board Members:
   Joe Brezvai, 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 November 18, 2026

3. Motion to approve the Drainage District Board Meeting Minutes from October 21, 2026

4. Public Comment

5. Present Memorandum requesting the Board extend the current contract with Arthur J. Gallagher Risk Management Services, LLC for two years from December 31, 2026, its current expiration date, to December 31, 2028, and authorize the Chairperson to execute all documents necessary to effectuate the extension

6. Present Memorandum requesting the Board approve the proposed Licensee Agreement with ITC and authorize the Board Chairperson to execute the License Agreement on behalf of the Board

7. Present Memorandum requesting the Board:

   a) Authorize the plans and specifications that include the sole sourcing of the VFD utilizing a negotiated price with Toshiba
   b) Authorize the issuance of the Pump 2 VFD Rehabilitation Project Plans and Specifications for bidding
   c) Approve Engineering Work Order D-507(2) to increase contract #WDCON8420 by a not-to-exceed amount of $65,000.00 to provide Pump 2 Mechanical Design Services
   d) Approve the creation of a design project with a budget of $111,000.00

8. Present Memorandum requesting the Board approve Engineering Work Order No. D-508(1) to increase NTH contract #WDCON8173 by a not-to-exceed amount of $97,948.00 to provide updates to the OMID Operations and Maintenance Manual

9. Motion to approve the following Change Order:

a) Change Order No. 8 for Z Contractors for construction of CON00010396 NI-EA OMID Contract No. 2B for a net increase in the amount of $491, 272.00 and a change in the final completion date from September 10, 2026, to January 27, 2027

10. Motion to approve the following Construction Estimate:

a) Construction Estimate No. 20 for Z Contractors, Inc. for construction of the NI-EA OMID Contract 2-B Only in the amount of $1,649,982.00 with a transfer to the Oakland County Treasurer in the amount of $68,421.32

11. Status of OMID Repairs Project

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

13. Motion to approve the following invoices:

1) Labor/Fringes/Non-Direct Labor Factor

• Segment 5 NI-EA Construction	$	0
• Segment 5 NESPS Mech./Elect. Construction	$	2,513.13
• NIEA Contract #2 Construction	$	7,962.33
• Odor/Corrosion System Construction	$	3,298.19

2) Equipment Charges

• Segment 5 NI-EA Construction	$	0
• Segment 5 NESPS Mech./Elect. Construction	$	58.31
• NIEA Contract #2 Construction	$	154.08
• Odor/Corrosion System Construction	$	62.29

a)	ASI			
	1) Invoice No. 9862	NESPS	$	7,664.65
	2) Invoice No. 9882	NESPS	$	4,833.45
b)	Dunbar			
	Invoice No. 10027946	O&M	$	475.00
c)	Hesco			
	Invoice No. 2019807-019	O&M	$	709.12
d)	Jacobs			
	Invoice No. C6A19900-42	O&C	$	32,768.19
e)	Lardner			
	Invoice No. 210776	O&M	$	1,560.00
f)	Macomb County			
	Invoice No. AR26001462	O&M	$	32,985.63
g)	Metco			
	1) Invoice No. 1811-94	O&M	$	114,122.18
	2) Invoice No. 2510-09	O&M	$	23,373.95
h)	NTH			
	1) NI-EA PCI-18 and PCI 19 Rehabilitation			
	Invoice No. 643345	NI-EA	$	75,031.31
	2) Supplementary Support Services at the NESPS			
	Invoice No. 643344	O&M	$	2,771.95

i) Rotor Electric Invoice No. 13069		O&M	$	2,992.00

14. Other Business

15. Adjourn

Next Regular Meeting: December 16, 2026, at 11:30 a.m., Eastern Standard Time

Agenda Item No. 3

Board Meeting Minutes from October 21, 2026

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

October 21, 2026

Minutes of the regular meeting of the Drainage Board of the Oakland-Macomb Interceptor Drain Drainage District held at the office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township Michigan on the 21st day of October and via Microsoft Teams.

The meeting was called to order by Chairperson Brezvai at 11:34 a.m.

PRESENT: Joe Brezvai, Chairperson and Deputy for Dr. Tim Boring, Director of the Michigan Department of Agriculture and Rural Development

Don Brown, Member and Macomb County Deputy Public Works Commissioner, on behalf of Candice Miller, Macomb County Public Works Commissioner

Anne Vaara, Member and Chief Deputy Oakland County Water Resources Commissioner, on behalf of Jim Nash, Oakland County Water Resources Commissioner

Brown moved, seconded by Vaara, to approve the October 21, 2026, agenda, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Minutes of the meeting held September 16, 2026, were presented for consideration. Vaara moved, seconded by Brown, to approve the minutes, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Chairperson Brezvai asked if there were any public comments. There were none.

Brown moved, seconded by Vaara, to approve Change Order No. 7 for Z Contractors for construction of CON00010396 NI-EA OMID Contract No. 2B for a net increase in the amount of $653,316.64, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Vaara moved, seconded by Brown, to approve Change Order No. 2 for Mersino Dewatering Inc. to extend Contract No. CON00010079 for dewatering and bypass pumping services by two years, through October 20, 2028, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Vaara moved, seconded by Brown, to approve Construction Estimate No. 19 for Z Contractors, Inc. for construction of the NI-EA OMID Contract 2-B Only in the amount of $89,087.50 with a transfer to the Oakland County Treasurer in the amount of $9,898.61, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Fritz Klingler, P.E., of FK Engineering Associates, presented the OMI Project Segments 1 through 4, NESPS, and NI-EA status report.

Vaara moved, seconded by Brown, to receive and file the report, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Vaara moved, seconded by Brown, to approve the Financial Reports, as presented, and receive and file them.

MOTION CARRIED: Yeas – 3, Nays – 0

Invoices:

1) Labor/Fringes/Non-Direct Labor Factor

• Segment 5 NI-EA Construction	$	1,806.31
• Segment 5 NESPS Mech./Elect. Construction	$	1,555.00
• NIEA Contract #2 Construction	$	8,446.77
• Odor/Corrosion System Construction	$	4,878.77

2) Equipment Charges

• Segment 5 NI-EA Construction	$	29.91
• Segment 5 NESPS Mech./Elect. Construction	$	36.88
• NIEA Contract #2 Construction	$	162.68
• Odor/Corrosion System Construction	$	89.71

a)	ASI			
	Invoice No. 9822	NI-EA	$	27,875.73
b)	CSM			
	1) Invoice No. 7471	O&M	$	1,210.00
	2) Invoice No. 7589	O&M	$	44,986.90
	3) Invoice No. 7753	O&M	$	1,627.78
	4) Invoice No. 7952	O&M	$	389.00
	5) Invoice No. 7955	O&M	$	2,255.00
c)	Dunbar			
	1) Invoice No. 26JW1726-001	O&M	$	850.00
	2) Invoice No. 10026479	O&M	$	10,064.00
	3) Invoice No. 10027358	O&M	$	345.00
	4) Invoice No. 10027359	O&M	$	1,125.00
	5) Invoice No. 10027900	O&M	$	2,576.26
d)	Gallagher			
	1) Invoice No. 6223490	NI-EA	$	13,078.00
	2) Invoice No. 6256026	NI-EA	$	3,237.00
	3) Invoice No. 6272002	NI-EA	$	14,247.50
e)	Hesco			
	Invoice No. 2019807-018	O&M	$	3,500.00
f)	Jacobs			

	Invoice No. C6A19900-41	O&C	$	26,266.39
g)	Kennedy			
	Invoice No. 652838	O&M	$	997.00
h)	Lardner			
	1) Invoice No. 209731	O&M	$	225.00
	2) Invoice No. 210086	O&M	$	450.00
	3) Invoice No. 210342	O&M	$	450.00
	4) Invoice No. 210523	O&M	$	1,490.00
i)	Macomb County			
	Invoice No. AR26001320	O&M	$	31,923.77
j)	Metco			
	Invoice No. 1811-93	O&M	$	97,617.14
k)	Motor City			
	1) Invoice No. 97719	O&M	$	317.50
	2) Invoice No. 97720	O&M	$	317.50
l)	NTH			
	1) NI-EA PCI-18 and PCI 19 Rehabilitation			
	a) Invoice No. 642316	NI-EA	$	28, 257.71
	b) Invoice No. 643090	NI-EA	$	81,621.62
	2) Supplementary Support Services at the NESPS			
	Invoice No. 643089	O&M	$	2,175.06
	3) NI-EA PCI-4 and PCI-18 Liner Pilot Study			
	Invoice No. 643088	NI-EA	$	1,838.76
m)	PMA Consultants			
	Invoice No. 03559.01-73	NI-EA	$	1,002.88
n)	PM Tech			
	1) Invoice No. 147086420	O&M	$	350.00
	2) Invoice No. 147087700	O&M	$	350.00
	3) Invoice No. 147100323	O&M	$	350.00
	4) Invoice No. 147868056	O&M	$	1,904.40
o)	Rotor Electric			
	1) Invoice No. 13067	O&M	$	46,061.99
	2) Invoice No. 13066	O&M	$	9,405.00
	3) Invoice No. 13062	O&M	$	4,224.00
	4) Invoice No. 13063	O&M	$	43,158.50
	5) Invoice No. 13065	O&M	$	7,380.50
	6) Invoice No. 13068	O&M	$	2,851.75

Brown moved, seconded by Vaara, to approve payment of the invoices, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Vaara moved, seconded by Brown, to approve the 2027 meeting dates, as presented.

MOTION CARRIED: Yeas – 3, Nays – 0

Joel Brown, Chief Engineer for the Oakland County Water Resources Commissioner's Office, introduced Shoaib Mirzad, Civil Engineer also from the Oakland County Water Resources Commissioner's Office, who will be assisting with OMID projects.

There being no further business, Vaara moved, seconded by Brown, to adjourn the meeting at 12:00 p.m.

MOTION CARRIED: Yeas – 3, Nays – 0

Next Regular Meeting: *Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township, Michigan* and electronically at 11:30 a.m., Eastern Standard Time on November 18, 2026.

I hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage District, at a meeting held on the 21st day of October 2026, and that the meeting was conducted and public notice was given in compliance with the Open Meetings Act being Act 267, Public Acts of Michigan, 1976, as amended, and that the minutes were kept and will be or have been made available to the public as required by the Act.

IN WITNESS WHEREOF, I have hereunto affixed my official signature on this 21st day of October 2026.



_____

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

Agenda Item No. 4

Public Comment

Agenda Item No. 5

Gallagher Contract Extension

Oakland-Macomb Interceptor Drain Drainage District

TO: **Joseph Brezvai, Chairperson**
Oakland-Macomb Interceptor Drain Drainage Board

FROM: **Meg Koss, WRC Drainage District Legal Counsel**

SUBJECT: **Arthur J. Gallagher Risk Management Services, LLC Contract Extension**

DATE: **November 18, 2026**

The current contract between the Oakland-Macomb Interceptor Drain Drainage District and Arthur J. Gallagher Risk Management Services, LLC will expire on December 31, 2026. Gallagher has provided crucial, specialized insurance-related services to the Drainage District.

The attached engagement letter details the work Gallagher has handled and anticipates handling on behalf of the Drainage District, along with its proposed rates, which remain unchanged from the current contract. In the interest of continuity and efficiency, it is requested that the contract be extended for two years, with an expiration date of December 31, 2028.

Requested Action: Extend the current contract with Arthur J. Gallagher Risk Management Services, LLC for two years from December 31, 2026, its current expiration date, to December 31, 2028, and authorize the Chairperson to execute all documents necessary to effectuate the extension.

Gallagher
Insurance | Risk Management | Consulting

2600 S. Telegraph Road, Suite 100
Bloomfield Hills, MI 48302
USA

248-943-1317
www.ajg.com

October 26th, 2026

Ms. Megan Koss, Esquire
Drainage District Legal Counsel
Oakland-Macomb Interceptor Drain Drainage District
One Public Works Drive, Building 95 W.
Waterford, MI 48328

Subject: OMIDD Multi-Year Insurance Broker of Record Extension for Arthur J. Gallagher

Dear Meg,

Arthur J. Gallagher & Co., the current insurance broker of record for OMIDD, was granted an extension of our contract a few months ago through December 31, 2026. Before the agreement expires at the end of December, OMIDD should consider a multi-year extension of our insurance brokerage contract for several important reasons, including the following:

The OMIDD NESPS-NIEA Project Owner Controlled Insurance Program (OCIP) concluded on July 1, 2026, triggering the 10-year completed operations and products liability protection period. This extended coverage provides OMIDD with critical protection against project-related liability claims during the applicable statutes of limitations and repose. Any claims arising during this period will be managed and serviced by Arthur J. Gallagher & Co.

Maintaining continuity in the broker relationship during this important post-construction completed operations insurance coverage period is considered an industry best practice. A relevant example is the OMIDD - Interceptor Rehabilitation OCIP which started February 1, 2010, and concluded on December 31, 2016. During its subsequent 10-year tail coverage period, the project experienced nearly $12 million in liability claim payments. Those claims were successfully managed and advocated by Meadowbrook Insurance Agency, later Arthur J. Gallagher & Co., while serving as OMIDD's broker of record and providing oversight for both OCIP-related and operational insurance programs.

In addition to preserving continuity for OCIP-related claims management, Gallagher is actively engaged in the marketing of OMIDD's operational insurance program in advance of the January 25, 2027 renewal. The current renewal effort includes marketing the program to multiple qualified insurers, exploring a potential two-year property insurance structure designed to provide greater rate stability, and evaluating opportunities presented by several insurers that have entered or expanded their appetite for wastewater, infrastructure, and public entity risks since OMIDD's January 2026 renewal.

Gallagher's substantial public entity, wastewater, and infrastructure insurance portfolio has helped attract these new underwriting participants and create meaningful competition

Gallagher
Insurance | Risk Management | Consulting

on behalf of its clients. Through established relationships with specialized carriers and underwriting decision-makers, Gallagher has successfully secured favorable pricing, coverage enhancements, and innovative program structures for similarly situated public entity and wastewater clients. OMIDD is well-positioned to benefit from these same market dynamics as the renewal process continues.

Given the long-term exposure associated with the completed OCIP projects, the importance of maintaining institutional knowledge and claims advocacy continuity, and the significant marketplace leverage Gallagher brings through its leadership position in the public entity and wastewater insurance sectors, a multi-year extension of the brokerage agreement would be in OMIDD's best interest. Such an extension would allow OMIDD to continue benefiting from consistent claims oversight, strong carrier relationships, increased market competition, and the strategic insurance guidance necessary to support both its ongoing operations and long-term capital infrastructure investments.

Gallagher's compensation would continue to be derived from standard industry commission arrangements paid by insurers based upon applicable policy premiums approved by the board, together with any mutually agreed-upon broker service fees approved by OMIDD for any future OCIP administration, or related services. The commission levels associated with the program are consistent with ordinary and customary brokerage compensation. Accordingly, the recommended extension would provide continuity of service and broker representation without materially changing the compensation structure currently in place.

Please let me know if you have any questions.

Sincerely,

Salvatore Saputo

Salvatore Saputo
Executive Vice President
Michigan Agency

Gallagher
Insurance | Risk Management | Consulting

Gallagher 2600 S Telegraph Road, Suite 100
Bloomfield Hills, MI 48302
M: (248) 943-1317
salvatore_saputo@ajg.com | AJG.com
Arthur J. Gallagher Risk Management Services, LLC.

Agenda Item No. 6

License Agreement with ITC

OAKLAND COUNTY
WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: **Joseph Brezvai, Chairperson of the Board of the Oakland-Macomb Interceptor Drain Drainage District**

FROM: **Sara Rubino, WRC Government Policy Attorney**

SUBJECT: **License Agreement with ITC**

DATE: **November 18, 2026**

International Transmission Company (ITC) owns a transmission line corridor located in the cities of Warren and Sterling Heights (ITC's Property). In August 2021, an emergency bypass pipe for the Oakland-Macomb Interceptor Drain (OMID) was installed on ITC's Property in response to a critical loss of pumping capacity at OMID's Northeast Sewage Pumping Station. Although the emergency bypass system was not needed during the event, and the bypass pipe was never connected to the Northeast Pumping Station, concerns regarding the time required to reestablish the piping network and the potential consequences of a future failure pumping station failure led to the decision to shallow bury and connect the bypass pipe. The connected pipe serves as an emergency-only safeguard bypass system the ("Bypass System").

Before proceeding with construction for the Bypass System, representatives for the Drainage District requested easements from ITC to install and shallow bury the 24-inch diameter high-density polyethylene piping system on ITC's Property and within the transmission line corridor at three bypass locations with surface connections as specific manholes. ITC was unwilling to grant the requested easements, but it would grant a license for the construction, operation, and maintenance of the Bypass System.

The attached License Agreement for Shallow Bury Emergency Bypass System ("License Agreement") is for a 30-year term beginning January 1, 2026, and ending on December 31, 2056, with an automatic 5-year renewal subject to the terms and conditions of the Agreement. The Agreement would permit use of ITC's Property for construction of the Bypass System, as well as for long-term operation, maintenance, and repair. In addition to a single payment of $35,000 for existing use of ITC's property, each of the three bypass locations are subject to a monthly fee, with a 3% increase every year. The payment schedule is attached as Exhibit D to the License Agreement. Standard insurance, indemnity, and liability provisions are also included in the License Agreement.

Requested Action: Approve the proposed Licensee Agreement and authorize the Board Chairperson to execute the License Agreement on behalf of the Board.

Agenda Item No. 7

Pump 2 VFD Replacement Project

Oakland-Macomb Interceptor Drain Drainage District

TO: **Joseph Brezvai, 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: **Presentation of Plans and Specifications Pump 2 VFD Replacement Project and Request Authorization to Bid. Authorize Applied Science, Inc Engineering Work Order for Pump 2 Mechanical Project Design Services and Creation of a Project**

DATE: November 18, 2026

When this Board previously approved design of the Pump 2 Variable Frequency Drive (VFD) on November 20, 2025, Pump 2 was not replaced as part of the Northeast Sewage Pumping Station Pumping and Electrical Project. However, the Board was made aware at that time that Pump 2 required the following upgrades:

- Replacement of the Pump 2 Variable Frequency Drive (VFD).
- Replacement of the pump's main bearings, wear rings and drive shaft bearings.
- Recoating of the discharge pipe interior and pump as well as hardware replacement.

The design is now complete and plans and specifications have been developed for the purposes of bidding and are now being shared with the Board. As part of this design development, the Project Team is recommending that the VFD be sole-sourced to Toshiba for the following reasons:

- The Pump 4 VFD, installed in early 2025, was manufactured by Toshiba and has been a proven, highly reliable system.
- Toshiba's technical support team is extremely knowledgeable about the system. We will have this same technical support team for both VFDs.
- Utilizing the same manufacturer will allow for spare parts to be interchanged across both VFDs.
- A fair cost agreement with Toshiba will outweigh any perceived cost savings from the competitive bidding process.

Staff has requested that Applied Science, Inc. (ASI) provide design services related to the replacement of mechanical seals, pump main bearings, wear rings, and drive shaft bearings along with the seal water system. ASI will also perform some base condition of the discharge piping in preparation for rehabilitating the discharge piping to be performed at a later project. ASI has prepared the attached proposal for these services for an amount not-to-exceed $65,000. An Engineering Work Order for ASI to provide these services has been prepared. It also is requested that a project budget be established in the amount of $111,000 for design of the Pump 2 Mechanical Upgrades.

Collectively, $3 million has already been approved for the design and construction of both these projects from Capital Reserves. Revised project budget estimates will be established once bids have been received.

Requested Action: 1. Authorize the attached plans and specifications that include the sole sourcing of the VFD utilizing a negotiated price with Toshiba. 2. Authorize the issuance of the Pump 2 VFD Rehabilitation Project Plans and Specifications for bidding. 3. Approve the attached Engineering Work Order to increase contract #WDCON8420 by a not-to-exceed amount of $65,000 to provide Pump 2 Mechanical Design Services. 4. Approve the creation of a design project with a budget of $111,000.

OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMIDDD)

NORTHEAST SEWAGE PUMPING STATION

PUMP 2 VFD REPLACEMENT
WAYNE COUNTY, MICHIGAN

OMIDDD CONTRACT 1-8113 – 100% FINAL DRAWINGS

PREPARED FOR OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

WRC WATER RESOURCES COMMISSIONER Jim Nash

CANDICE S. MILLER
Macomb County
Public Works Commissioner

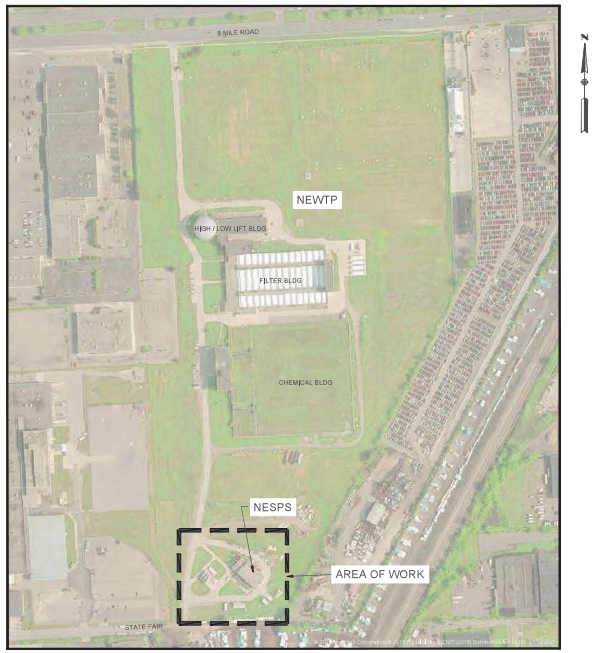
Michigan Department of AGRICULTURE & Rural Development

PREPARED BY:

METCO CONSULTING ENGINEERS



PROJECT LOCATION MAP



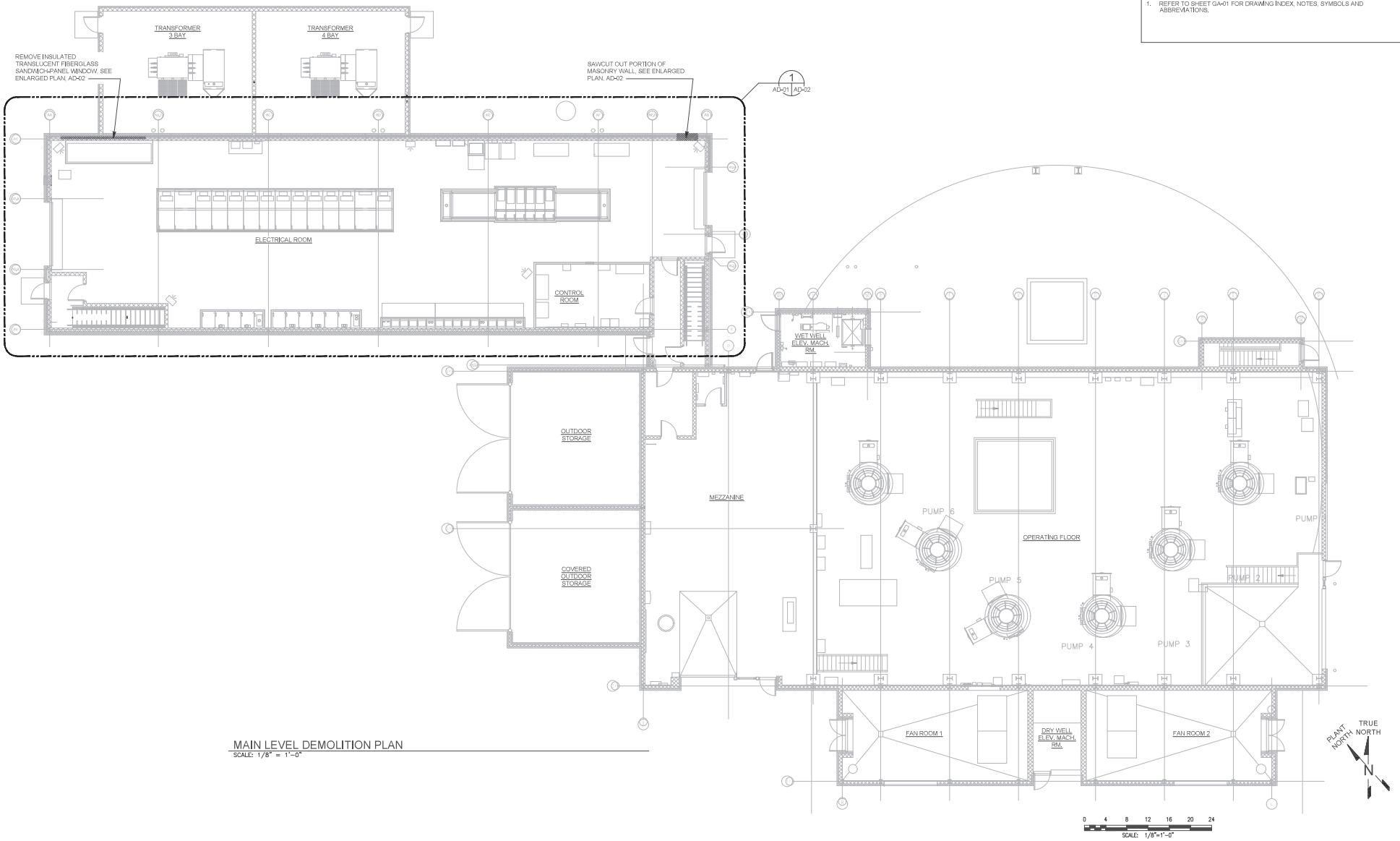
SITE LOCATION MAP

OCTOBER 2026

SHEET NUMBER: G-00

GENERAL SHEET NOTES

1. REFER TO SHEET GA-01 FOR DRAWING INDEX, NOTES, SYMBOLS AND ABBREVIATIONS.



MAIN LEVEL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

REVISIONS			
REV	DESCRIPTION	DATE	BY

DESIGNED BY: DM
DRAWN BY: SS
CHECKED BY: RV
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ARCHITECTURAL DEMOLITION
MAIN LEVEL OVERALL PLAN

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

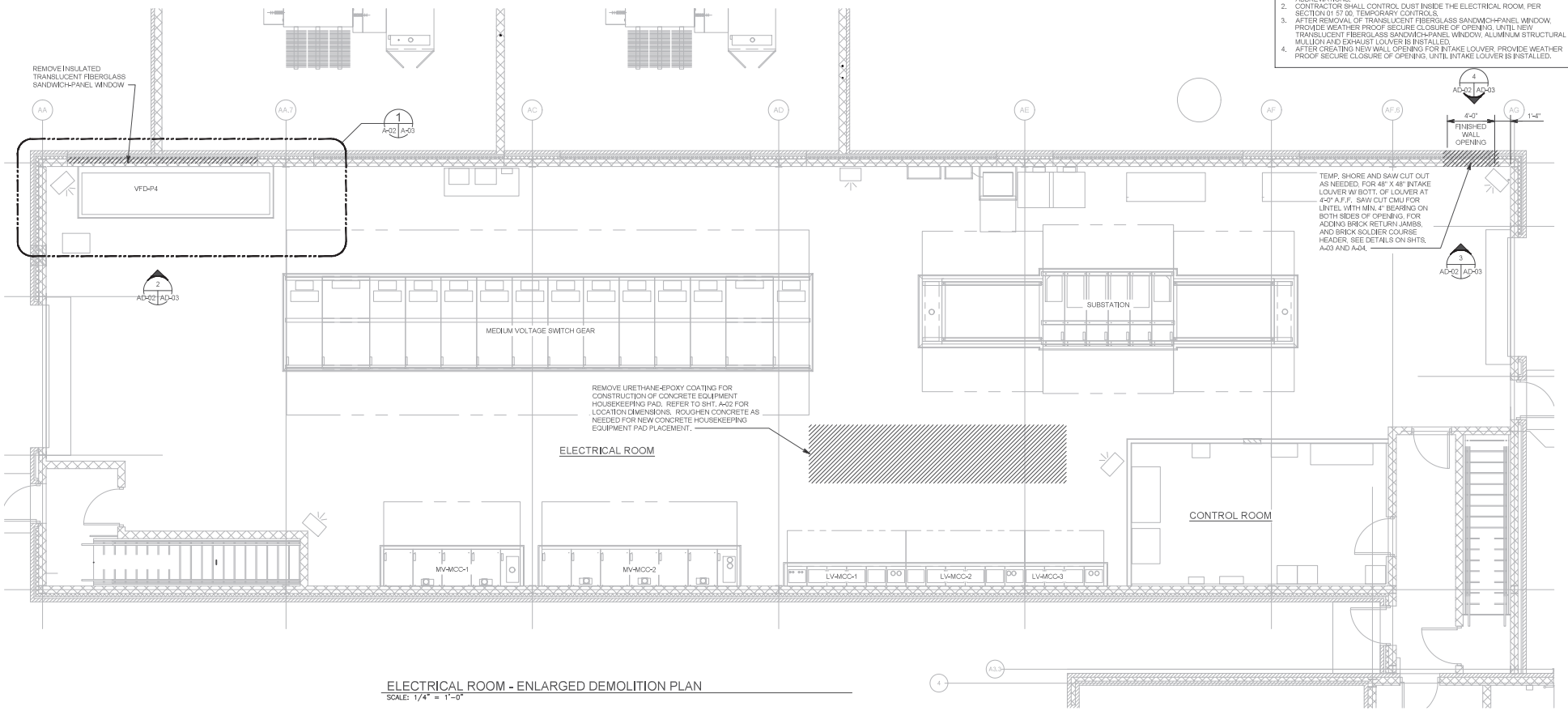
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	30-Oct-26

SHEET NUMBER: AD-01

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10/29/2026 3:31:53 PM

GENERAL SHEET NOTES

1. REFER TO SHEET GA-01 FOR DRAWING INDEX, NOTES, SYMBOLS AND ABBREVIATIONS.
2. CONTRACTOR SHALL CONTROL DUST INSIDE THE ELECTRICAL ROOM, PER SECTION 01 57 00, TEMPORARY CONTROLS.
3. AFTER REMOVAL OF TRANSLUCENT FIBERGLASS SANDWICH-PANEL WINDOW, PROVIDE WEATHER PROOF SECURE CLOSURE OF OPENING, UNTIL NEW TRANSLUCENT FIBERGLASS SANDWICH-PANEL WINDOW, ALUMINUM STRUCTURAL MULLION AND EXHAUST LOUVER IS INSTALLED.
4. AFTER CREATING NEW WALL OPENING FOR INTAKE LOUVER, PROVIDE WEATHER PROOF SECURE CLOSURE OF OPENING, UNTIL INTAKE LOUVER IS INSTALLED.



ELECTRICAL ROOM - ENLARGED DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

PLANT NORTH
TRUE NORTH

0 4 8 12
SCALE: 1/4"=1'-0"

REVISIONS			
REV	DESCRIPTION	DATE	BY

DESIGNED BY: DM
DRAWN BY: SS
CHECKED BY: RV
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ARCHITECTURAL DEMOLITION
ENLARGED PLAN - ELECTRICAL ROOM

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

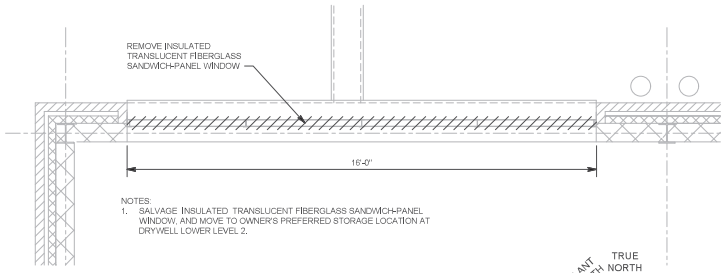
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INCEP DATE:
PLOT DATE: 30-Oct-26

SHEET NUMBER: AD-02

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GENERAL SHEET NOTES

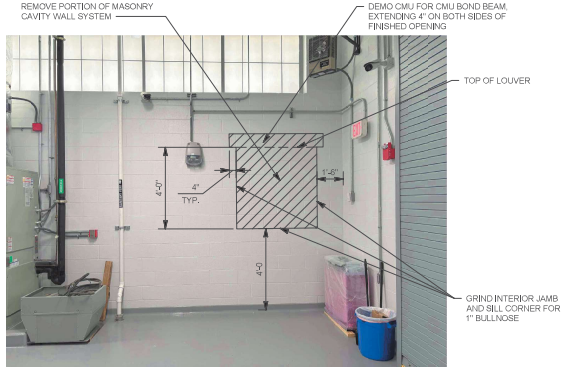
1. REFER TO SHEET GA-01 FOR DRAWING INDEX, NOTES, SYMBOLS AND ABBREVIATIONS.
2. COORDINATE WORK WITH WORK SHOWN ON A-02 & A-03.
3. DIMENSIONS SHOWN ON PICTURES ARE APPROXIMATE. COORDINATE WITH MASONRY SUBCONTRACTOR FOR ACTUAL DIMENSIONS.



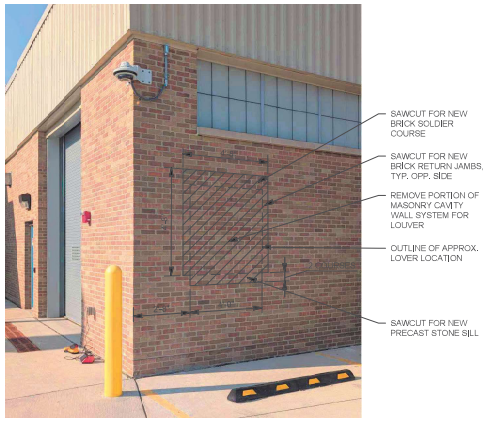
1 AD-02 AD-03 ELECTRICAL ROOM - ENLARGED WINDOW REMOVAL PLAN
SCALE: 1/2" = 1'-0"



2 AD-02 AD-03 PHOTOGRAPH - WINDOW REMOVAL



3 AD-02 AD-03 PHOTOGRAPH - MASONRY WALL DEMO - INTERIOR



4 AD-02 AD-03 PHOTOGRAPH - MASONRY WALL DEMO - EXTERIOR

0 1 2 3 4 5 6
SCALE: 1/2"=1'-0"

REVISIONS			
REV	DESCRIPTION	DATE	BY

DESIGNED BY: DM
DRAWN BY: SS
CHECKED BY: RV
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ARCHITECTURAL DEMOLITION
ENLARGED PLAN AND PHOTOGRAPHS

WRC WATER RESOURCES COMMISSIONER Jim Nash
Candice S. Miller Macomb County Public Works Commissioner

CAD FILE NAME: AD-03
DRAWING SCALE: AS SHOWN
INCEP DATE:
PLOT DATE: 30-Oct-26

SHEET NUMBER: AD-03

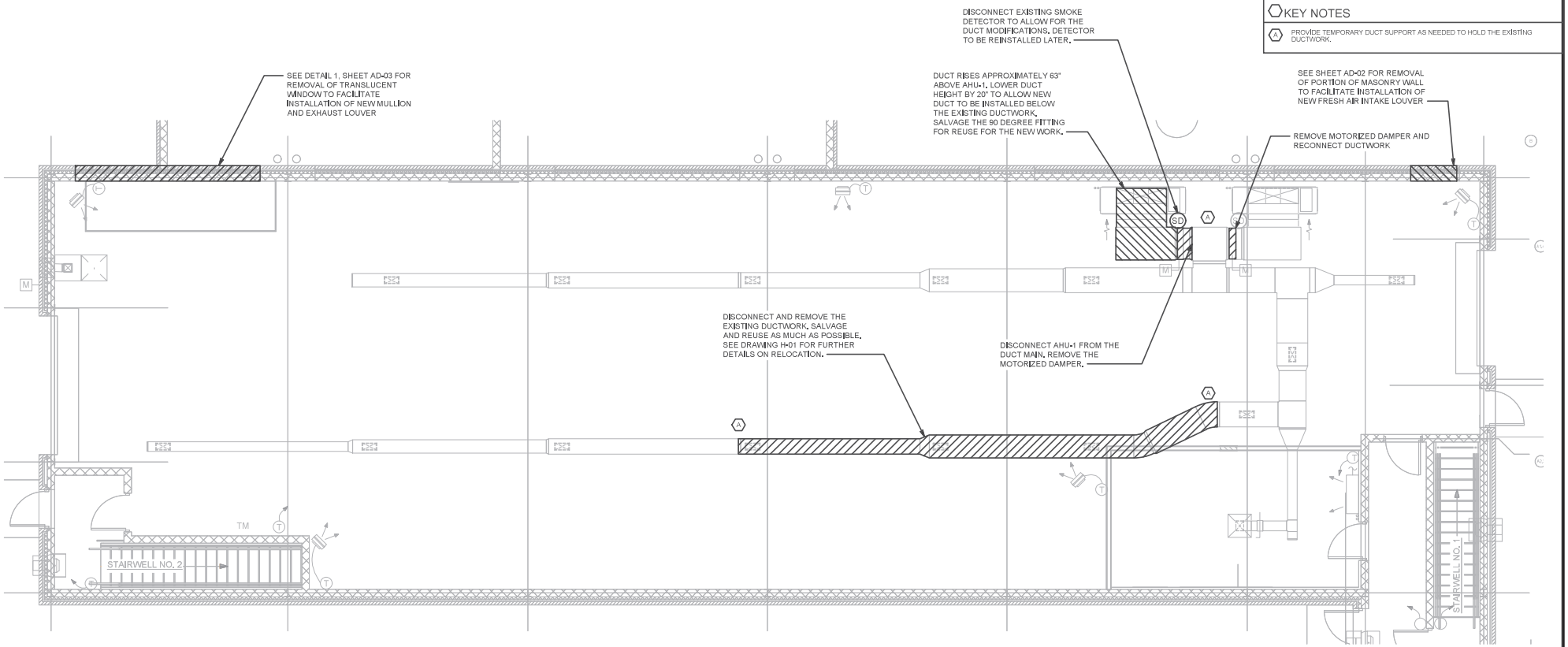
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GENERAL SHEET NOTES

1. REFER TO SHEET GH-01 FOR DRAWING INDEX, NOTES, SYMBOLS AND ABBREVIATIONS.
2. COORDINATE ANY WALL PENETRATIONS WITH THE STRUCTURAL DISCIPLINE.
3. ALL LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE APPROXIMATE BASED ON PREVIOUS DESIGN DOCUMENTS AND SITE OBSERVATIONS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGNER FOR FURTHER DIRECTION.
4. THE OWNER RESERVES RIGHT TO RETAIN ANY DEMOLISHED MATERIAL.
5. CONTRACTOR SHALL PROVIDE TEMPORARY COVER TO PROTECT THE ELECTRICAL EQUIPMENT IN THE ROOM WHILE DOING THE DEMOLITION AND SAW CUTTING WORK.

KEY NOTES

(A) PROVIDE TEMPORARY DUCT SUPPORT AS NEEDED TO HOLD THE EXISTING DUCTWORK.



MAIN LEVEL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

PLANT NORTH
TRUE NORTH
N

0 4 8 12
SCALE: 1/4"=1'-0"

REVISIONS			
REV	DESCRIPTION	DATE	BY

DESIGNED BY: JG
DRAWN BY: JG
CHECKED BY: PE
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

HVAC
MAIN LEVEL DEMOLITION PLAN

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

CAD FILE NAME:	DRAWING SCALE:
HD-01	1/4" = 1'-0"
INCEP DATE:	PLOT DATE:
	30-Oct-26

SHEET NUMBER: **HD-01**

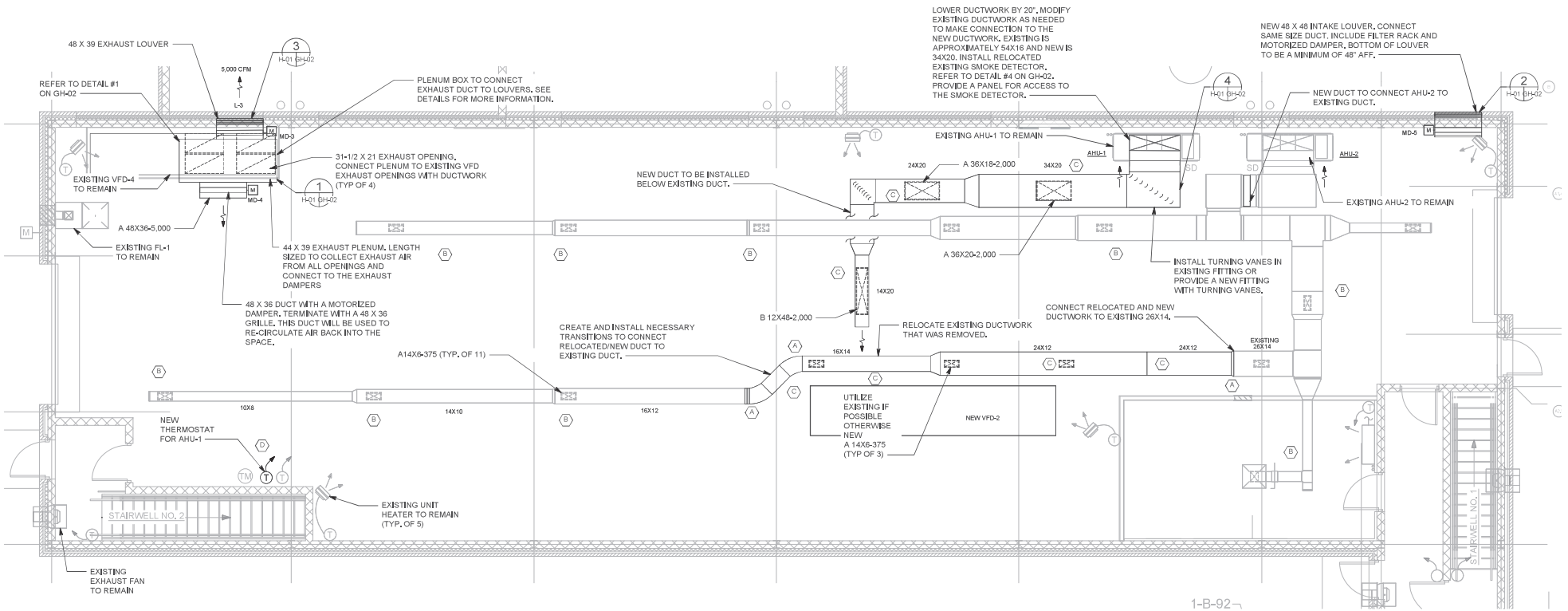
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10/30/2026 12:25:12 PM

GENERAL SHEET NOTES

1. REFER TO SHEET GH-01 FOR DRAWING INDEX, NOTES, SYMBOLS AND ABBREVIATIONS.
2. COORDINATE ANY WALL PENETRATIONS WITH STRUCTURAL DISCIPLINE.
3. LOCATION OF MECHANICAL SYSTEMS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND SIZES PRIOR TO COMMENCEMENT OF WORK.

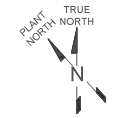
SHEET KEYNOTES

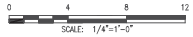
- (A) PROVIDE NEW PORTION OF DUCTWORK AS NEEDED TO ACCOMMODATE DUCTWORK REROUTING. REUSE DEMOLISHED DUCTWORK AND GRILLES WHERE POSSIBLE.
- (B) EXISTING DUCTWORK AND GRILLES TO REMAIN.
- (C) NEW DUCTWORK AND GRILLES.
- (D) RECONFIGURE THE HVAC CONTROL SYSTEM. REFER TO UPDATED SEQUENCE OF OPERATION ON SHEET H-03.



MAIN LEVEL RENOVATION PLAN

SCALE: 1/4" = 1'-0"





REVISIONS			
REV	DESCRIPTION	DATE	BY

DESIGNED BY: JG
DRAWN BY: JG
CHECKED BY: PE
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

HVAC
MAIN LEVEL DEMOLITION PLAN

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

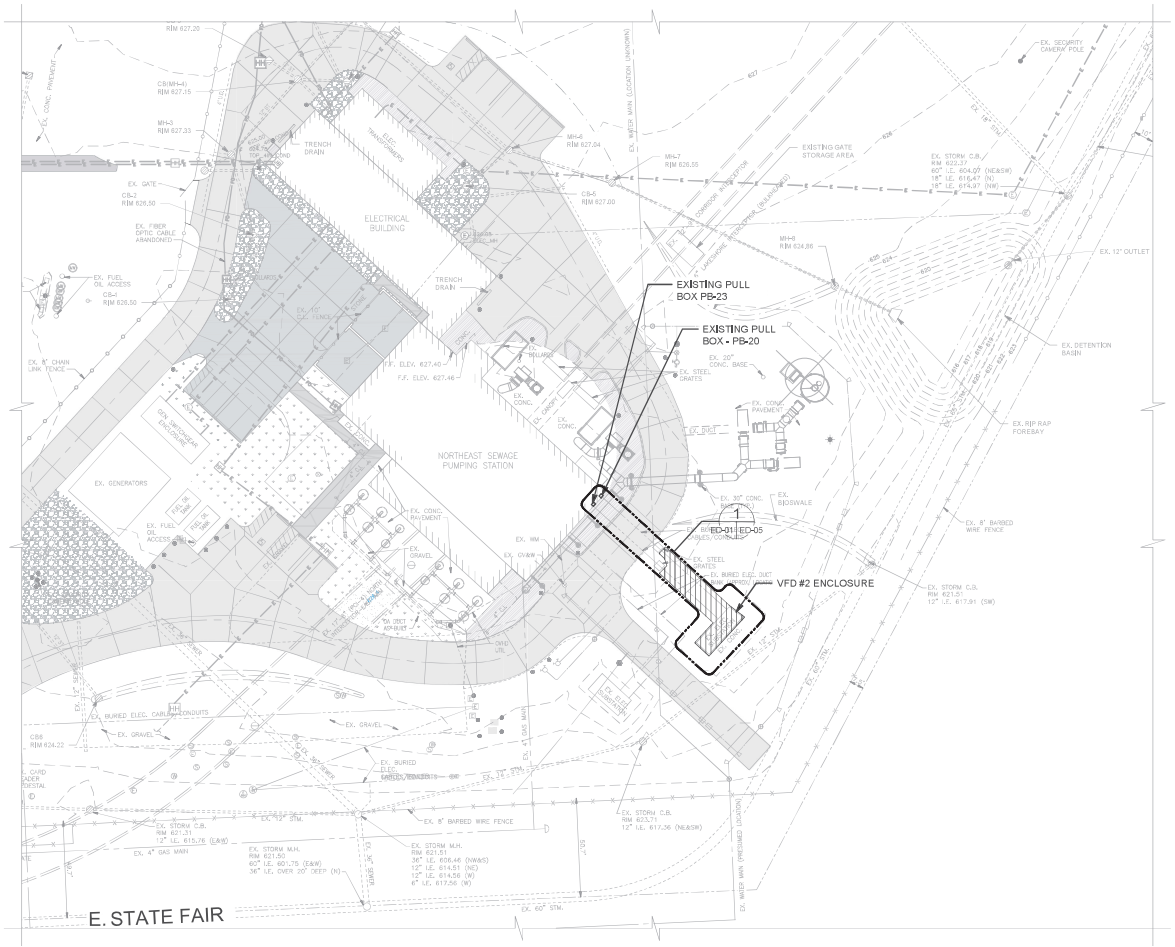
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INCEP DATE:	PLOT DATE:
	30-Oct-26

SHEET NUMBER: H-01

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GENERAL SHEET NOTES

1. REFER TO SHEET GE-01 FOR SYMBOLOGY.
2. REFER TO SHEET GE-02 FOR ABBREVIATIONS, GENERAL NOTES, AND DEMOLITION NOTES.
3. CONTRACTOR SHALL FILL VOID LEFT BY DEMOLITION OF CONCRETE FOUNDATION AND REMOVAL OF CONDUIT DUCT BANKS. W/ ENGINEERED FILL AND MIN. 4" OF TOP SOIL PER SECTION 31 05 15. SOILS AND AGGREGATES FOR EARTHWORK . RESTORE GRASS AREAS PER SECTION 32 92 00, TRF AND GRASSES.

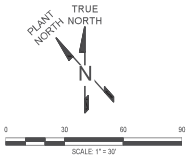


ENLARGED SITE PLAN
SCALE: 1" = 30'-0"

DEMOLISH AND REMOVE P2-VFD ENCLOSURE AND COMPLETE CONCRETE FOUNDATION



SITE PHOTOGRAPH



REVISIONS			
REV.	DESCRIPTION	DATE	BY

DESIGNED BY: RV
DRAWN BY: SS
CHECKED BY: DM
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ELECTRICAL DEMOLITION
VFD-P2 SITE PLAN AND PHOTOGRAPH

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

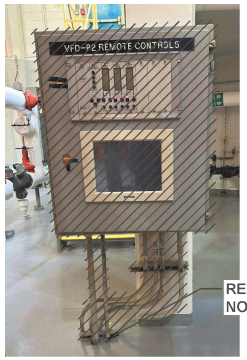
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INCEP DATE:	PLOT DATE:
	30-Oct-26

SHEET NUMBER: **ED-01**

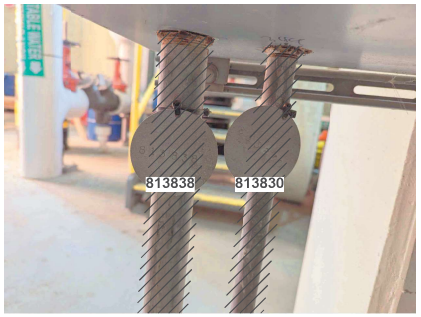
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GENERAL SHEET NOTES

1. REFER TO SHEET GE-01 FOR SYMBOLOGY.
2. REFER TO SHEET GE-02 FOR ABBREVIATIONS, GENERAL NOTES, AND DEMOLITION NOTES.
3. REFER TO SHEET E-08 FOR CONDUIT AND CABLE SCHEDULE.
4. SEAL THE FLOOR OPENINGS AFTER REMOVAL OF CONDUITS.



1 ED-03 ED-04 PHOTOGRAPH - VFD-P2 VIBRATION PANEL



2 ED-03 ED-04 PHOTOGRAPH - VFD-P2 VIBRATION PANEL



3 ED-03 ED-04 PHOTOGRAPH - VFD-P2 VIBRATION PANEL



4 ED-03 ED-04 PHOTOGRAPH - PB-23



5 ED-03 ED-04 PHOTOGRAPH - PB-23



6 ED-03 ED-04 PHOTOGRAPH - PB-23



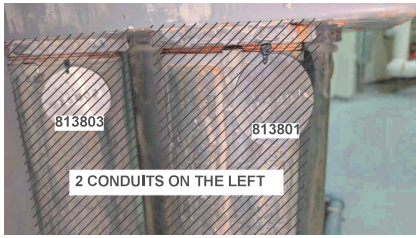
7 ED-03 ED-04 PHOTOGRAPH - PB-23



8 ED-04 ED-04 PHOTOGRAPH - PB-20



9 ED-04 ED-04 PHOTOGRAPH - PB-20



10 ED-04 ED-04 PHOTOGRAPH - PB-20

EXISTING CONDUIT SCHEDULE-VIBRATION PANEL

CONDUIT TAG #	FROM	TO	REMARKS (DEMOLITION)
813814	PUMP	VIB PANEL	DISCONNECT AND REMOVE CONDUIT AND CABLE
813818	PUMP- VIB SENSOR	VIB PANEL	SAME AS ABOVE
813830	LP-B	VIB PANEL	SAME AS ABOVE
813828	MOTOR-VIB SENSOR	VIB PANEL	SAME AS ABOVE
813837/38	VIB PANEL	PB-23	SAME AS ABOVE
813840	VIB PANEL	PB-23	SAME AS ABOVE

CONDUIT SCHEDULE-PB #23

CONDUIT TAG #	FROM	TO	REMARKS (DEMOLITION)
813816	PUMP- RTD	VFD (EXIST)	DISCONNECT REMOVE CONDUIT AND CABLE FROM THE FIELD EQUIPMENT TO PB-23. RERE TO SHEET ED-4 FOR FUTRTHER DEMOLITION REQUIREMENTS BEYOND PB-23 TO VFD
813817	PUMP-ESTOP	VFD (EXIST)	SAME AS ABOVE
813824	MOTOR-RTD	VFD (EXIST)	SAME AS ABOVE
813825	MOTOR-CT	VFD (EXIST)	SAME AS ABOVE
813826	MOTOR-EXCITOR	VFD (EXIST)	SAME AS ABOVE
813827	MOTOR-HEATER	VFD (EXIST)	SAME AS ABOVE
813833	OVATION	VFD (EXIST)	SAME AS ABOVE
813835	OVATION	VFD (EXIST)	SAME AS ABOVE
813836	SPARE	VFD (EXIST)	SAME AS ABOVE
813837/38	VIB PANEL	VFD (EXIST)	SAME AS ABOVE
81340	VIB PANEL	VFD (EXIST)	SAME AS ABOVE

REVISIONS

REV.	DESCRIPTION	DATE	BY

DESIGNED BY: RV
DRAWN BY: SS
CHECKED BY: DM
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ELECTRICAL DEMOLITION
RACEWAY PHOTOGRAPHS AND SCHEDULES

WRC WATER RESOURCES COMMISSIONER Jim Nash
Candice S. Miller Macomb County Public Works Commissioner

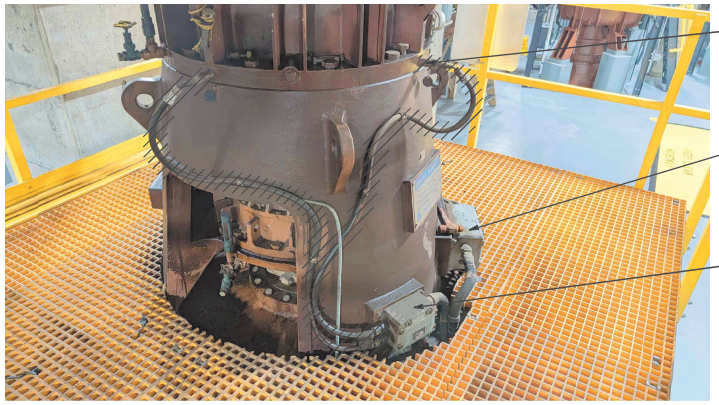
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INCEP DATE:
PLOT DATE: 30-Oct-26

SHEET NUMBER: ED-04

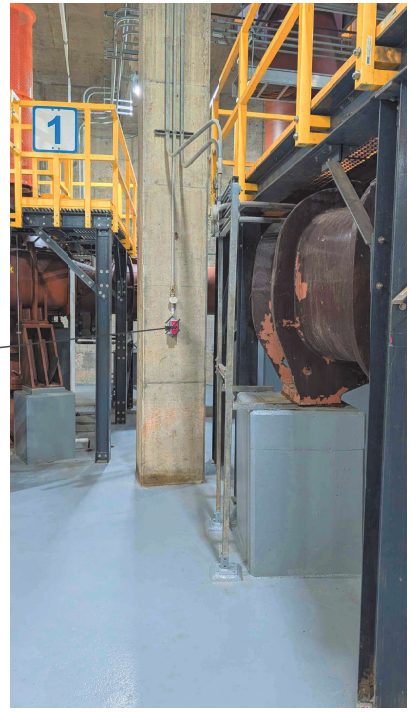
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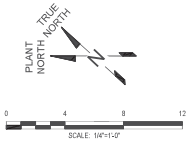
PHOTOGRAPH - PUMP 2 RTDS



PHOTOGRAPH - PUMP 2 VIBRATION SENSORS



PHOTOGRAPH - PUMP 2 E-STOP



REVISIONS			
REV.	DESCRIPTION	DATE	BY

DESIGNED BY: RV
DRAWN BY: SS
CHECKED BY: DM
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ELECTRICAL DEMOLITION
PUMP PHOTOGRAPHS

WRC WATER RESOURCES COMMISSIONER Jim Nash
Candice S. Miller Macomb County Public Works Commissioner
Macomb County Michigan

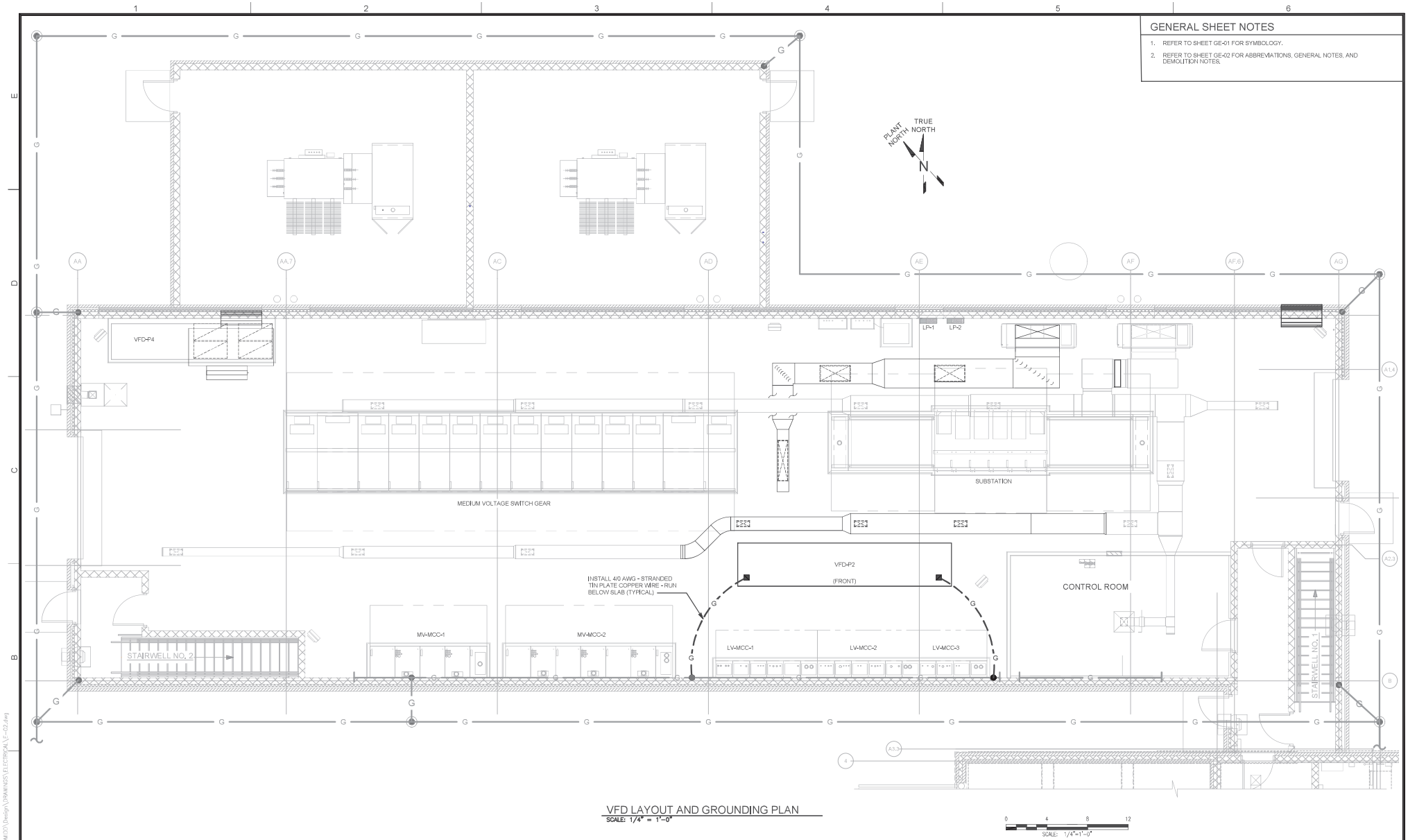
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	30-Oct-26

SHEET NUMBER: ED-06

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GENERAL SHEET NOTES

1. REFER TO SHEET GE-01 FOR SYMBOLOGY.
2. REFER TO SHEET GE-02 FOR ABBREVIATIONS, GENERAL NOTES, AND DEMOLITION NOTES.



VFD LAYOUT AND GROUNDING PLAN
SCALE: 1/4" = 1'-0"

SCALE: 1/4"=1'-0"

REVISIONS			
REV	DESCRIPTION	DATE	BY

DESIGNED BY: RV
DRAWN BY: SS
CHECKED BY: DM
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ELECTRICAL
ELECTRICAL ROOM
VFD LAYOUT AND GROUNDING PLAN

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

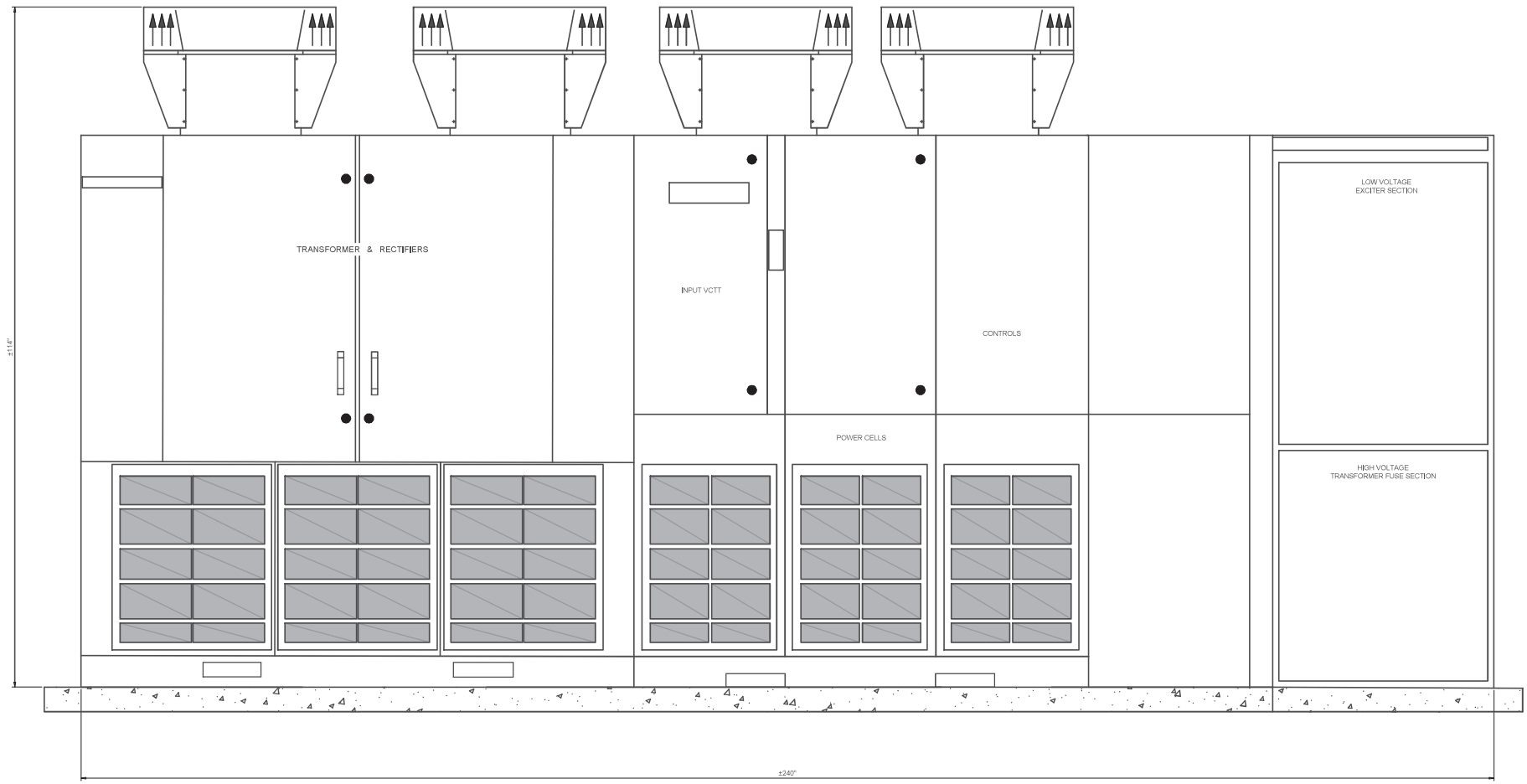
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INCEP DATE:	PLOT DATE: 30-Oct-26

SHEET NUMBER: E-02

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GENERAL SHEET NOTES

1. REFER TO SHEET GE-01 FOR SYMBOLOGY.
2. REFER TO SHEET GE-02 FOR ABBREVIATIONS, GENERAL NOTES, AND DEMOLITION NOTES.



VFD FRONT ELEVATION

SCALE: 1-1/2" = 1'-0"

REVISIONS			
REV.	DESCRIPTION	DATE	BY

DESIGNED BY: RV
DRAWN BY: SS
CHECKED BY: DM
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ELECTRICAL
VFD-P2 ELEVATION

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

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INCEP DATE:
PLOT DATE: 30-Oct-26

SHEET NUMBER: E-03

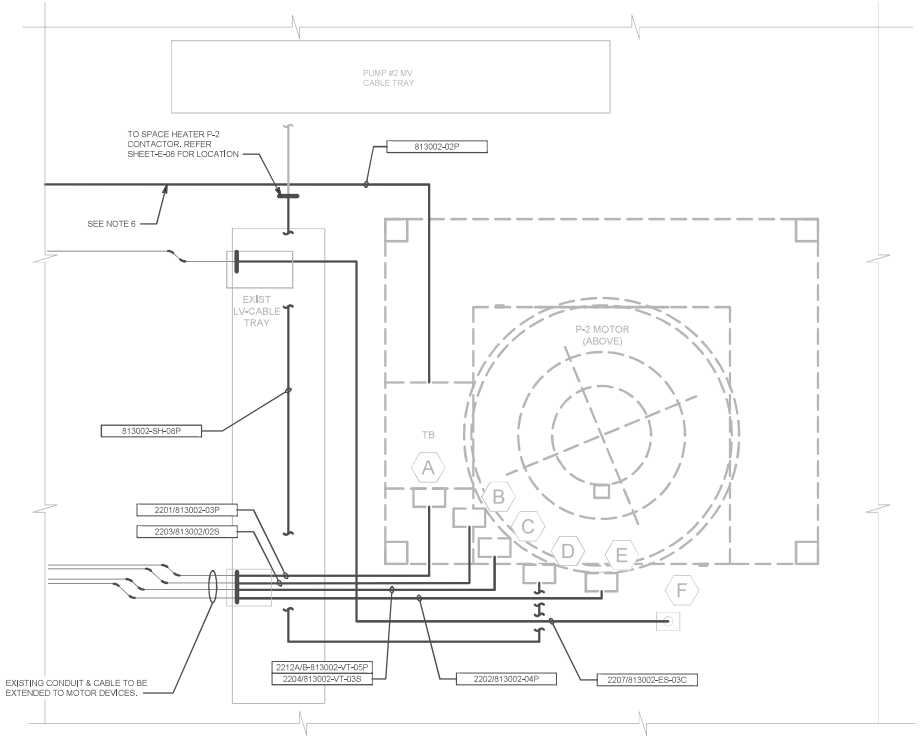
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LEGEND

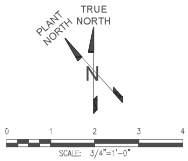
A. CTS
B. RTDS
C. VIBRATION TRANSMITTER
D. HEATER
E. EXCITER
F. E-STOP

GENERAL SHEET NOTES

1. REFER TO SHEET GE-01 FOR SYMBOLOGY.
2. REFER TO SHEET GE-02 FOR ABBREVIATIONS, GENERAL NOTES, AND DEMOLITION NOTES.
3. REFER TO SHEET E-## FOR ONE LINE DIAGRAM.
4. THE CONDUIT ROUTING SHOWN ARE PRELIMINARY. CONTRACTOR SHALL FIELD VERIFY FOR CONFLICTS AND DEVELOP AND SUBMIT CONDUIT ROUTING PLANS FOR REVIEW PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. REFER TO SHEET E-09 FOR POWER AND CONTROL RISER DIAGRAM AND SHEET E-11 FOR CONDUIT AND CABLE SCHEDULE.
6. CUT THE EXISTING CONDUIT (81301) AND EXTEND FOR TERMINATION AT MOTOR TERMINAL BOX. EXISTING SKV ABLE TO BE REUSED AFTER TESTING THE CABLE FOR THEIR ELECTRICAL INTEGRITY.
7. THE EXISTING CONDUIT SHALL BE MAINTAINED WHEN EXTENDING THEM FOR TERMINATION AT NEW VFD OR AT EXISTING MOTOR.



1 E-07 | E-08 ENLARGED PUMP NO. 2 PLAN
SCALE: 3/4" = 1'-0"



REVISIONS

REV.	DESCRIPTION	DATE	BY

DESIGNED BY: RV
DRAWN BY: SS
CHECKED BY: DM
PROJECT MANAGER: DM

METCO CONSULTING ENGINEERS

SEAL:

PUMP 2 VFD REPLACEMENT

NORTHEAST SEWAGE PUMPING STATION (NESPS)
WAYNE COUNTY, MICHIGAN

ELECTRICAL
ENLARGED PUMP NO. 2 PLAN

WRC WATER RESOURCES COMMISSIONER
Jim Nash
Candice S. Miller
Macomb County Public Works Commissioner

CAD FILE NAME: E-07
DRAWING SCALE: 3/4" = 1'-0"
INCEP DATE:
PLOT DATE: 30-Oct-26

SHEET NUMBER: E-07

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PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Toshiba

B. No substitution allowed.

2.2 DESIGN CRITERIA

A. The drive system in a NEMA rated with gasket shall consist of a VFD including the isolation transformer and Excitation module in a single factory-wired lineup. The system shall be rated for use with existing 2250 HP (FLA - 241), 4160 volt, 400 rpm, 3 phase, synchronous motor with brushless excitation as manufactured by Ideal Electric, Ohio, USA. Refer to the data sheet attached at the end of this specification section.

B. The VFD shall be provided with a padlock able input fused disconnect switch with contactor that shall allow isolation of the VFD system including transformer from the incoming supply. The complete system shall be factory tested and certified test data provided to ENGINEER to indicate that the system is functional and meets all the requirements as specified herein.

C. VFD system shall be fully integrated with a package including an integrated isolation transformer to provide common mode voltage protection and phase shifting. Any alternate system without isolation transformer and which requires motors with higher voltage rated insulation will not be allowed.

D. The external dimensions and the configuration of the VFD system including excitation cabinet and output filter (if required) and any other required components shall not exceed 20’-0”W X 4’-3” D X 9’-0”H.

E. VFD shall be of air-cooled construction with redundant blowers. The Blowers shall be designed to exhaust the air outside by an external duct system

F. The VFD shall be capable of producing a variable AC voltage/frequency output to provide continuous operation over the normal system 30-100% speed range. The VFD must be capable of sustained operation at 1/10 speed to facilitate checkout and maintenance of the drive equipment. As a commissioning and troubleshooting feature, the VFD power circuit shall be capable of operating without a motor connected to the VFD output.

G. VFD shall be capable of operating any standard AC motor of equivalent rating (horsepower and speed) over the specified speed range.

H. The VFD shall be capable of a momentary overload of 150% of rated motor current for one minute out of any ten minutes.

I. The VFD shall be able to produce full rated torque at any speed in the operating range (constant torque capability).

J. VFDs shall comply with the latest edition of IEEE 519 for total harmonic voltage and current distortion. Total harmonic distortion and K-Factor Information will be read and analyzed via feeder protection relay located at the feeder breaker, feeding the VFD System.

K. The VFD converter section shall not require separate harmonic filters.

L. Compliance shall be verified by the VFD manufacturer with field measurements of harmonic distortion differences at point of common coupling with and without VFDs operating. The point of common coupling (PCC) for all harmonic calculations and field measurements for both voltage and current distortion shall be defined as the primary connection of each VFD input transformer.

M. VFD system shall provide an output waveform that allows utilization of standard motors, without need of any special insulation or derating.

N. VFD output waveform shall be suitable for operating asynchronous. VFD output current waveform, as measured at the motor, shall be inherently sinusoidal at all speeds, with a total harmonic current distortion not exceeding 3% referenced to the full load output current fundamental between 10% and 100% speed. Any VFD system utilizing output transformers is not acceptable.

O. The system design shall not have any inherent output harmonic resonance in the operating speed range.

P. The VFD output shall produce no electrically induced pulsating torque to the output shaft of the mechanical system eliminating the possibility of a resonance caused by VFD induced torque pulsations. VFD systems or other types, which produce torque pulsations in excess of 1% shall require a torsional analysis to be supplied by the VFD manufacturer as part of the scope of supply. The price of the torsional analysis shall be included in the base price of the VFD.

Q. An input transformer shall be included to provide common mode voltage protection and allow the use of a standard motor. No alternate system requiring high voltage motor insulation is not acceptable.

R. Guaranteed minimum total VFD system efficiency (ηsys) shall be a minimum 96% at 100% load and minimum 95% at 50% load. Efficiency evaluation shall include input transformer, VFD converter, and output filter. Auxiliary controls, such as internal VFD control boards, cooling fans or blowers shall be included in all loss calculations.

S. The VFD system shall maintain a 95% minimum true power factor from 30% to 100% of rated speed. VFD system including power factor correction and/or harmonic filter shall never have a leading power factor under utility or generator operation.

T. VFD speed regulation shall be +/-0.5% without encoder or tachometer feedback.

U. The maximum allowable audible noise from the VFD system shall be 80 dB(A) at a distance of one meter (3.3 ft) at any speed or load condition.

Motor Drive Gearbox
Switchgear Control
Solutions

ESR MOTOR SYSTEMS, LLC
1810 S Lynhurst Dr, Ste E
Indpls, In 46241

Chris Strahl 317-435- 5299

Quotation Prepared For	Metco
Attention	
Project Name / Subject	OMID Pump 2 VFD Replacement
Reference	Northeast Sewage Pumping Station (NESPS)
Location	Wayne County, MI
Project Bid Date	
Project Specification Reference	26 19 23
Project Drawings	E-10

We thank you for the opportunity extended to provide an offer for the above project. TOSHIBA International Corporation is one of the world's leading manufacturers of adjustable speed drives, motor controllers, motors, and integrated automation systems. If you have any questions or need modifications to this quotation or any of the equipment listed, please feel free to contact us.

We look forward to working with you and welcome your phone call to discuss our offering.

Rev	Description	Date	Initials
1	Original	10/29/2026	JFH

T300MV2® Drive standard features:

The proposed drive system includes the following features. Optional features included in the offer are listed in the equipment description.

- Input voltage: see equipment description for input voltage
- Input voltage tolerance: ± 10%
- Input frequency: 60 Hz or 50 Hz
- Input frequency tolerance: ± 5%
- Output voltage: see equipment description
- Auxiliary power for cooling fans: 480 V, three-phase, 60 Hz (derived internally)
- Control power: 120 V, single-phase, 60 Hz (derived internally)
- Installation: in non-hazardous, unclassified area
- Cooling: forced air-cooled
- Input distribution class surge arrester
- Input-fused disconnect switch with vacuum contactor; integral part of ASD assembly
- Dry-type input isolation transformer with copper windings & electrostatic shield. Tertiary winding is included to provide auxiliary power to drive cooling fans. Transformer is an integral part of ASD assembly
- Modular power cell construction for easier service & access
- Multi-level PWM output waveform
- Analog inputs: three (2) selectable voltage or current input signals
- Analog outputs: eight (8) selectable voltage & current output signals with programmable functions
- Digital inputs: ten (10) digital inputs with programmable functions
- Digital outputs: ten (10) digital outputs with programmable functions
- Control: V/Hz, sensor-less vector control, closed-loop vector control
- Standard V/Hz control programming for smooth operation of the motor & optimal performance
- Speed regulation: ± 0.5% without encoder feedback; ± 0.01% with encoder feedback
- Variable torque applications with 115% overload capability for one (1) minute (some ratings are limited to 110% overload capability)
- Constant torque applications with 150% overload capability
- Acceleration/deceleration: 0.0001 to 6000 seconds
- Graphical backlit LCD display: ability to display multiple parameters on one screen. Software is flash-upgradeable. Includes multi-function rotary encoder & Ethernet PC interface
- LED indications: status LED to indicate ready (green), running (red), alarm (slow-blinking), fault (fast-blinking); LED indicating remote/local mode
- Keys: local/remote, mode, run, enter, escape, stop
- Push buttons: emergency stop, reset, interlock
- Selector switch “OPEN/CLOSE”, pilot lights for input contactor closed & input contactor open
- Electrical performance: NEC, ANSI
- Components & others: NEC, NEMA, UL, cUL
- IEEE 519 compliant at drive input terminals
- Standard factory testing

Input configuration:

- 24-pulse – ASD with 4160 V output

Indoor ASD:

- UL Type 1 enclosure suitable for indoor installation. Enclosure with gaskets & inlet air filters
- Cabinet paint color: ANSI 61 grey
- Ambient conditions: 0° to 40°C temperature, 5 to 95% humidity (non-condensing), altitude up to 1000 meters

Adjustable Speed Drives					
Item	**P**	**Description**	**Unit Price**	**QTY**	**Line Price**
10	**3,000**	**M42AN44300JAA0**	**$ 678,750.00**	**1**	**$ 678,750.00**
		Frame : 2 IEEE-519 -1992 compliant Air Cooled Disconnect: Input Isolation Switch Magnetics: Copper *Input: 4160V / 3Φ / 60 hz* *Output: 4160v @ 60 hz* *Drive FLA: 252.2 amps* *Dimensions: 103.7"H x 194'W x 49.5"D* *Weight: 26,300 lbs* *150% Overload current for one minute* *Enclosure: UL Type 1* *Rated Temperature: 0°C to 40°C* *Rated Altitude <1000 m* *Heat rejection at full load: 81.6 kW* ***Standard Items:*** * Two (2) 4-20 mA isolation transducers for speed reference input and Field Current Feedback * Two (2) 4-20 mA isolation transducers for analog outputs (speed feedback and current feedback) * Digital Output – 1NO & 1NC contacts for VFD fault, VFD ready, and VFD run * Digital Inputs – Dry contacts for remote start/stop, remote e-stop, and remote interlock			

		Optional Items: *(*Options included in drive price) See Schem E-10 (Customer Control Schematic) Similar Controls to Project 2310789 * Input I / O Terminal Cubicle 90"h x 30"w x 43.4"d Bolted on Left Side of VFD Kirk Key Interlocks * Enclosure Space Heaters - 240 vac external Power * Redundant fans * Communications Card (MODBUS / Ethernet) * Conformal Coated Circuit Boards * Door Devices Schneider PM 8000 Series Power Meter Multilin 869 Motor Protection Relay Elapsed Time Meter Input Contactor Selector Switch Local Remote Selector Switch Manual Speed Pot Start / Stop Push Buttons E-Stop Push Button - Pull to Reset Reset Push Buttons Pilot Lights - LED - 30mm Control Power On - White Input Contactor Opened - Green Input Contactor Closed - Red Motor Running - Red Motor Stopped - Green VFD Fault - Amber			
11	**SCHG**	**Import Tariff Surcharge**	**$ 33,937.50**	**1**	**$ 33,937.50**

12	**EW**	**VFD Extended Warranty**	**$ 108,600.00**	**1**	**$ 108,600.00**
		Warranty covers parts and labor for 4 years from System Acceptance or 54 months from date of shipping, which ever expires first.			
20	**EXC**	**Kinetics Exciter for AC Brushless Motor**	**$ 72500.00**	**1**	**$ 72500.00**
		Input: 4160V / 3Φ / 60 hz (Fed From I/O section) *Motor Exciter Rating: 13 KW* *Exciter Output: 370v ac / 3Φ / 30 amps* *Dimensions: 90"h x 36"w x 24"d* *Weight: Approx 1800 lbs* *Enclosure: N-3R* *Rated Temperature: 0°C to 40°C* *Rated Altitude <1000 m* ***Standard Items:*** **included in drive price** 4160v Stepdown Input Transformer Kinetics - Kinet Sync - NB Digital Control and Annunciation Module Kinetics Type SSAC three Phase input SCR Controlled Power Factor / Voltage AC Regulated Exciter Conformal Coated Circuit Boards			
21	EW	**Exciter Extended Warranty**	**$ 11,600.00**	**1**	**$ 11,600.00**
		Warranty covers parts and labor for 4 years from System Acceptance or 54 months from date of shipping, which ever expires first.			

Additional Items

Item	Frame	Description	Unit Price	QTY	Line Price
Spare Parts prices are valid when purchased with the drives					
30	**SPK**	Spare Parts Kit: Part No. SPK-M42AN44300J-1	**$ 107,375.00**	**1**	**$ 107,375.00**
31	**SCHG**	**Tariffs Surcharge**	**$ 5,3375.00**	**1**	**$ 5,375.00**
32	**SPK - Ex**	**Spare Parts for Exciter Panel** TBD	**$ 6,250.00**	**1**	**$ 6,250.00**
Power Module Accessories					
33	**ACC**	**Power Module Storage Container w 120v Plug and Heaters** Part Number GCI6722G947-042	**$ 6,625.00**	**1**	**$ 6,625.00**
34	**ACC**	**Power Module Lifting Bracket, One per jobsite** Part Number: GCI6722G055	**NC**	**1**	**Included**
35	**ACC**	**Power Module Ramp** Part Number: GCI6723G053	**$ 1,300.00**	**1**	**$ 1,300.00**
36	**ACC**	**Power Module Truck** Part Number: GCI6723G055	**$ 4000.00**	**1**	**$ 4000.00**

Spare Parts Kit Contents: SPK-M42AN44300J-1		
Item	**Description**	**Quantity**
1	Control Board	1
2	GSD Board	1
3	XIO Board	1
4	EXIO Board	1
5	Interface Board	1
6	External Interface Board	1
7	Keypad Interface Board	1
8	Display / Keypad	1
9	Power Supply	1
10	GDI Board	1
11	PDM Board	1
12	Control Power Fuse	2
13	Input Fuse	3
14	CPT Fuse	4
15	Rectifier Fuse	12
16	Diode Pack	12
17	Cooling Fan	1
18	Power Module (One Phase)	1

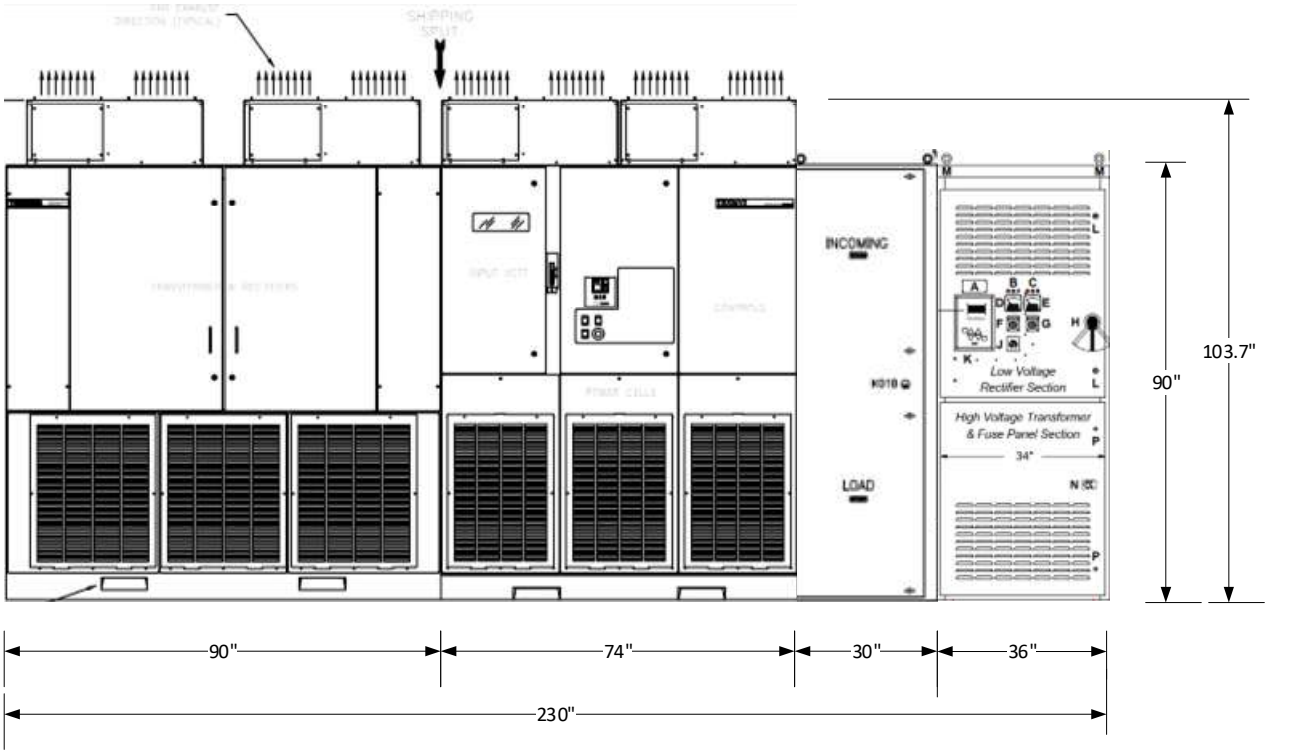
Additional Items					
40	**SU**	**Startup by Kinetics**	**$ 30,000.00**	**1**	**$ 30,000.00**
		1 Trip 5 Days Coordinated with Toshiba Field Service			
41	**SU**	**Startup on the PM 8000 Power Meter**	**$ 18,750.00**	**1**	**$ $ 18,750.00**
		Per Spec 26 09 12.12 Sect 3.3 1 Trip / 2 Days			
50	**TRG**	**Onsite Training by Toshiba**	**$ 19,750.00**	**1**	**$ 19,750.00**
		1 Trip / 3 Days			
51	**TRG**	**Onsite Training by Kinetics**	**$ 18,500.00**	**1**	**$ 18,500.00**
		1 Trip / 2 Days			
52	**TRG**	**Onsite Training on the PM 8000 Power Meter**	**$ 15,000.00**	**1**	**$ 15,000.00**
		Per Spec 26 09 12.12 Sect 3.3 1 Trip / 1 Day			
60	**HA**	**Harmonic Analysis**	**$ 16,000.00**	**1**	**$ 16,000.00**
70	**TST**	**Harmonic Field Testing**	**$ 19,000.00**	**1**	**$ 19,000.00**
		1 Trip 2 Days			

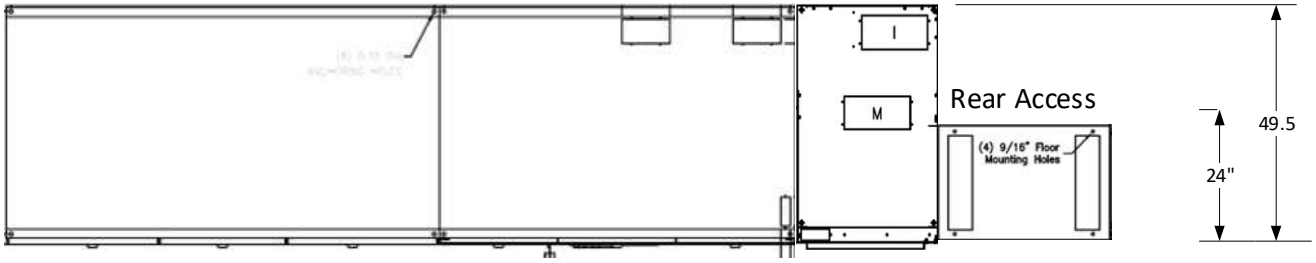
80	**TA**	**Tortional Analysis**	**$ 16,000.00**	**1**	**$ 16,000.00**

Additional Items					
Item		**Description**	**Unit Price**	**QTY**	**Line Price**
90	**SU**	**Start-up Package** *(not included in basic unit price)*	**$ 44,000.00**	**1**	**$ 44,000.00**
		Package is for Two (2) trips, 8 days on site, and includes Travel (leaving Monday-returning Friday) and Expenses. Price is based on 10 hour workdays, excluding Holidays. Contingent on 4 weeks advanced notice from site of expected startup date. **Package price is applicable only in continental US, Canada and Mexico.** Contact the Toshiba Field Service Department for additional cost for Saturday and Sunday travel. If additional time at job site is required, see ON-SITE FIELD SERVICES FORM for rates. ******* Customer responsibilities prior to startup******* • Complete request form for ON-SITE FIELD SERVICES FORM and email to TIC-Service@toshiba.com. • Equipment and associated devices or hardware necessary for operation must be mechanically installed, aligned, and ready for operation. • Power and Control wiring along with any process interface signals must be connected and ready for operation. • Any interruption or delays of the startup due to field wiring errors, mechanical problems or unpreparedness on the part of site personnel affecting a timely startup will be the customer's responsibility. In such cases, a return trip or standby time will be billed at published standard Field Service rates. • Customer to supply personnel familiar with the facility layout, applications and operations as well as capable of assisting our engineer with the operation of such equipment and processes.			

		If the equipment is to be tested under load, the customer's material or process must be ready for load test immediately following preliminary check out.			

Attached Documents	
Toshiba Medium Voltage Drive Brochure	T300MV2.pdf
4160 V Frame 2 Outline Drawing	MV2 4kV FR2 Outline.pdf


SHIPPING SPLIT
INCOMING
LOAD
Low Voltage Rectifier Section
High Voltage Transformer & Fuse Panel Section
34"
103.7"
90"
90"
74"
30"
36"
230"


Rear Access
(4) 9/16" Floor Mounting Holes
49.5
24"

Exceptions to Specifications 26 19 23		
E-Exception / D-Deviation / C-Clarification		
1.2.E.1	E	Section 26 00 00 not available at the time of this quote.
1.3.B.1,2,3	E	Medium Voltage Drives are not classified as Metal Clad Switchgeat
1.3.G	D	Medium Voltage Drives are covered by UL 347A.
1.4.A	C	Section 01 33 00 was not provided at time of this quote
1.4.D.1	E	Design Calculations will not be provided
1.4.E.2.b	E	Complete Circuit Diagnosis of the system not provided
1.4.E.2.c	E	Wiring Designation Schedule not provided
1.5.B	E	A User list with phone number cannot be provided due to our Corp Policy However a similar project was supplied to GLWA.
1.7.A.2	E	All Components will not be tested prior to installation. All components will go through Toshiba's standard Quality procedures.
1.7.B.1	E	Field Testing is not per NETA. Toshiba will test the VFD per Toshiba's standard Field Service procedures
1.8.A	E	Article 10 was not provided at time of this quote
1.8.E	C	Shipping of th(e Equipment to meet Toshiba's standard Freight Requirements. Truck must be Air Ride)
1.8.H	D	Does not include damage occurring during Shipping. The Title will transfer at Toshiba Factory Docs in Houston Tx. Toshiba Warranty terms will apply
1.9.A.3	E	Toshiba is not responsible for setting / programming protection relays
1.10.B	D	Warranty covers parts and labor for 4 years from System Acceptance or 54 months from date of shipping, which ever expires first.
1.10.C	C	Customer will need to issue a PO to have a Field Service Engineer on site. If the failure/Issue is covered by Toshiba Warranty Terms the visit/repair will be at no charge to the customer.
1.10.D	D	Warranty will be determined by Toshiba's Standard Terms and Conditions
2.2.B	D	Some functions will need to be simulated when the motor is not tested with the VFD
2.2.H	D	Overload is 150% of rated motor current for 1 minute, every 20 minutes.
2.2.P	E	Spec for the VFD is < 2% Torque Ripple over 20:1 speed range. Torsional Analysis is by other

2.3.E.1	D	Isolation Switch and fuses will only isolate the VFD and not the Field Exciter. The Exciter will be fed from the input terminals and have dedicated fuses to the stepdown transformer in the Exciter cabinet. Recommend interlocking the VFD/Exciter system with the upstream breaker.
2.3.E.3, 4 & 5	D	Input Isolation Switch is a non-load break switch that is based on a bolted pressure switch technology. Current interruption is accomplished by the Vacuum Contactor and Current Limiting Fuses.
2.3.F.2	D	This transformer is a proprietary design 24 pulse isolation transformer. Primary K Factor of the input transformer secondary windings is 5.6. The secondary Voltage of the transformer is not 4160v
2.3.G.4	D	The DC Bus capacitors are oil-filled and have a 20-year life expectancy
2.3.I.2	D	regulation of the Power factor of the motor will be controlled by the VFD via a 4-20ma signal to the exciter controller. Most of the Protections for loss of field and pullout will be performed by the VFD
2.3.I.4	D	The Exciter Panel input power will be fed from the Input Terminals in the I/O cabinet at 4160v / 3 phase
2.4.A.2.b	C	VFD does not contain Thyristors
2.4.A.4 & 5	D	SR 869 is obsolete. MPR will be a Multilin 869
2.5.B	D	Event log limited to last 31 events
2.5.D	D	Computer Interface is Ethernet
2.6.A.3	E	Only single level Password
2.6.A.4	E	Self-Test Keypad not available
2.7.A	D	Exciter Panel does have a read door for access
2.7.G.2	E	Enclosure is IP20 / UL Type 1
3.1.A.2	E	SR 869 is obsolete. MPR will be a Multilin 869

Project Delivery Schedule:	
Purchase Order Review & Acceptance	TIC will address any concerns within 1 week after receipt of a technically & commercially clear Purchase Order (Order) with clear definition of deliverables. TIC requires all concerns with respect to the Order be resolved prior to TIC's acceptance of Order It is TIC's recommendation for Customer to be involved with pre-award activities or kick-of meetings to better understand the project requirements and to meet applicable project schedules.
Approval Drawings	Outline and schematics drawings for Approval: 4-6 weeks after acceptance of Order Submittal schedule of additional approval documents must be separately agreed upon by TIC prior to Order submission. If Order does not state either "Hold for approval process" or "approval process is required", TIC shall not be required to hold for approval.
Review Cycle	2 weeks are allowed for client review and return of drawings. Additional time for review or more than one cycle of submittals will impact the project cycle time and delivery.
Re-Submittal	If resubmittal of drawings is required, TIC will submit the revised drawings within 4 weeks after receipt of marked drawings and acceptance of requested technical and commercial changes by Cstomer.
Design Freeze	Design freeze will be in effect after receipt of authorized release to manufacture. **Subsequent changes after design freeze will carry commercial and schedule impacts. Changes requested after shipment that are incorporated in the field will be subject to then-current TIC field service rates and standard terms & conditions of field service.**
Equipment Delivery	Based on current plant loading at the time of quotation, TIC can offer the following lead time, which will begin after receipt of approved drawings and release to manufacture are as follows: Line Item 10 & 20: 48 weeks after release to manufacturing. Add 1 week to above lead times for witness test option. Lead time is subject to confirmation at the time of order acceptance depending on current plant loading. TIC will respond with the estimated ship date at the time that the Order is received or at notice of order submission. TIC will make commercially reasonable efforts to honor the lead time quoted in the Order given there is no significant change related to the plant loading during the approval process.

Equipment Supplied By Client	If applicable, any equipment supplied by client for installation in the TIC manufactured product must be received in full at least 12 weeks prior to date of shipment. Customer's failure to timely send any such equipment may result in delays of shipment.
Client Inspection and Witness Test	If required, this will extend the lead time and will be scheduled 1-2 weeks prior to the shipment date. Any changes requested during acceptance test will result in commercial and schedule impacts.
Project / Product Documentation	Standard documentation and as built drawings will be provided electronically upon request 4 weeks after shipment of equipment.
Changes After Manufacturing Completion / Shipment	Changes requested after manufacturing completion/shipment will be subject to then-current TIC Field Service Rates and TIC Field Service Terms and Conditions.

Commercial Terms	
Validity	The quotation is valid for thirty (30) days from date of this quotation.
Delivery Terms	CPT Prepaid and Add, 13131 West Little York Rd, Houston, TX 77041 per Incoterms® 2020. Title and risk of loss are transferred to the buyer at delivery point according to Incoterms® 2020. Export crating is not included. Flatbed Shipping standard: Document Number 104S-741-001 needs to be followed for requirement.
Packaging	Product will be packed for domestic shipment via flatbed air ride truck. Flatbed Shipping is required as standard. The equipment should be covered by tarp for weather protection during transportation. Export crating is not included. For customers arranging their own transport, Document Number 104S-741-001 must be followed.
Basis of Price	The prices applicable to the products being purchased are those in effect at the time of Order; provided, however, that in the event of extenuating circumstances that result in significant increases in the costs of the products being purchased, including with respect to raw materials or components used in production or manufacture thereof directly attributable to tariffs, or duties, tariffs or other amounts assessed thereon by a governmental entity, Customer and TIC, upon mutual agreement, may adjust in good faith prices charged for the products as a result thereof. TIC shall provide reasonable supporting documentation for any such adjustments.
Payment Terms	Net thirty (30) Days from the date of invoice. Subject to credit approval by TIC. Payment terms may be negotiated if the credit limit is not approved. Progress payments terms are as follows: 10% along with purchase order 20% with approval drawings 40% after release to manufacture 30% at shipment
Product Warranty	Eighteen (18) months after the date on which the products being purchased are delivered by TIC to the initial purchaser or twelve (12) months after such products are first placed in operation, whichever period shall first expire.

Field Service Warranty	With respect to the field services provided, ninety (90) days after the last date such work was performed and, with respect to equipment, materials and parts, if any, that are provided as part of such work, six (6) months after such materials or parts are incorporated into the work or delivered to Customer.
Storage by TIC	In the event Customer requests an extension of the delivery date and TIC, in its sole discretion, agrees to extend such date, TIC may place such products in storage either at a TIC operated facility or at another location. In such event, (1) all costs incurred by TIC in connection with such storage, including, without limitation, costs of preparing such products for storage, placement into storage, handling, storage/demurrage, inspection, preservation and insurance shall be due and payable by Customer upon receipt by Customer of TIC's invoices and (2) TIC's delivery obligations shall be deemed fulfilled and title and risk of loss to such products shall pass to Customer if it has not already passed.
Storage at Customer Location	Products should be properly stored at site prior to installation. TIC's recommended short-term or long-term storage guidelines should be followed to maintain product warranty.
Receiving and Handling	Receipt and handling of the products at end location is not included. Please follow the guidelines set in the instruction manual for receiving and handling.
Terms and Conditions	TIC Standard Terms and Conditions of Sale apply to purchases of products from TIC. TIC Standard Terms and Conditions of Field Service apply to field service performed by TIC-authorized personnel. In addition, with respect to field services, TIC Standard Terms and Conditions of Field Services and the terms in the Request for On-Site Field Services, as supplemented by TOSHcare® Protection Plan Terms and Conditions only if purchased for specific products or components, shall apply and shall take precedence over any other terms and conditions referenced or included in any purchase order. However, if the parties have reached agreed terms in writing such as a Master Agreement or Field Service Agreement, those terms shall take precedence over all other terms except the TOSHcare® Protection Plan Terms and Conditions, where applicable.
Start Up & Training Field Service Rates	Startup / training requests require 4 weeks' notice. Startup requests with less than 4 weeks' advance notice may be subject to additional costs and/or TIC may not be able to support the requested timeline. The expectation at startup is that product supply power is available and that the motor can be operated. If the required time for startup exceeds the quoted scope, the additional scope will be billed per standard rates and terms. Additional training and field services may be purchased per TIC Field Service "Request for On Site Service" form. Standby Time will be billed at the appropriate rate on the specific day of the week in which it occurs. A minimum of 8 hours will be billed for standby days. Standby time is defined to include all of the following: (1) an individual is requested to remain on site when their ability to provide direct support activities is being impeded by others; (2) access to areas of the equipment and/or machine is not made available for checkout/troubleshooting by the service personnel; or (3) an individual is requested to remain at Customer's facility or close by on an "on-call" basis to provide support onsite, if requested. TIC Field Service Engineers may be dispatched from Canada or United States based on location and availability. To submit a request, please use online request form at, contact TIC Field service at 713-896-5224, or email TIC-Service@Toshiba.com. TIC Field Service Terms and Conditions apply.

Oakland-Macomb Interceptor Drain Drainage District
Northeast Sewage Pumping Station
For Pump 2 Mechanical Improvement
Wayne County, Michigan

Engineering Work Order No. D-507 (2) **Date: 11/04/2026**

To: Applied Science, Inc.

For: Scope and estimate for providing Mechanical and Piping Improvements at NESPS

DESCRIPTION

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the upgrades and improvements to the Mechanical components to Pump No. 2 at NESPS that falls under contract no. (WDCON8420). This EWO serves as your approval for compensation of the following additional services as delineated in your attached October 27, 2026 Proposal.

Task 1. Pump No. 2 Mechanical Upgrade Package

- Meet with maintenance staff and review inspection reports on latest pump review.
- Base assumption is for replacement of mechanical seals/stuffing box, bearings, pump impeller, and painting.
- Replacement of the seal water system and piping from the main station header to the pump connection.
- Discharge piping rehabilitation including replacement of couplings and fasteners.
- Replacement of instrumentation (vibration sensors, …) which is not covered under the Electrical package.
- Service on the steady floor bearings.
- Field measure the discharge piping thickness at each level and provide a conditional assessment report.
- Review and coordination with planned lining of the discharge piping interior and at the discharge chamber interface.

Fees for this Engineering Work Order shall be billed on a time and material basis according to the standard contract fee and rate schedule as modified by your proposal. The total amount of the Contract is to be increased by a not to exceed amount of $65,000 for this project. This amount is not to be exceeded without written authorization from this office.

RECOMMENDED	**DATE:** 11/04/2026	**ACCEPTED**	**DATE:**
By:	Shoaib Mirzad	By:	
Shoaib Mirzad E.I.T Civil Engineer II OCWRC		John R. Michalski, P.E. President Applied Science, Inc.	
APPROVED	**DATE:** 11/10/2026	**APPROVED**	**DATE:**
By:	Stephen Downing	By:	
Stephen Downing Construction and Maintenance Manager MCPWO		Steve Korth, P.E. Chief Manager OCWRC	
Approved by the Drainage District Board on:			

Department No.:	CCN6010101	Account No.:	SC730639
Fund No:	FND82912	Program No.:	PRG149667
Project No:	PRJXXXX	Project Activity:	ENG_CONSULT
Contract No:	WDCON8420	Contract Exp:	12/26/2027

Applied Science, Inc.
consulting engineering

300 River Place, Suite 5400
Detroit, Michigan 48207
Phone: 313.567.3990
Fax: 313.567.3750

October 27, 2026

Mr. Joel Brown, P.E.
Chief Engineer – Construction Projects Unit
Oakland County Water Resources Commissioner
One Public Works Drive
Building 95 West
Waterford, Michigan 48328

Re: Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)
Scope and Estimate for providing Mechanical and Piping Improvements at NESPS

Dear Mr. Brown,

Thank you for the opportunity for Applied Science, Inc. (ASI) to continue to provide you with engineering services for the above referenced project. It is our understanding that it is the OMIDDD's request to carry out upgrades and improvements to the Mechanical components to Pump No. 2 at NESPS. Pump No. 2 will be undergoing new electrical upgrades with a new VFD and some additional instrumentation under another effort. This task is to provide plans and specifications for upgrades to the associated mechanical components that were not included during the NESPS larger improvement project. As you know, it was decided to leave the existing Pump No. 2 in place as is under that Contract and utilize the pump as a wet weather pumping unit. Therefore, a few items need to be upgraded to bring the pump up to a condition to perform reliably for the next 10 years and beyond.

Part of this work will include coordination with Metco regarding the electrical work planned and NTH to coordinate piping improvements with discharge piping improvements in the future. Additionally, ASI includes scope and fee for NTH Consultants to provide assistance with Contract Specifications for a Bid package. NTH will additionally provide services to field measure the steel thickness of the discharge piping at each level of the station. This will assist in determination to replace or rehab the existing piping.

The requested fee is summarized in the following tasks:

1. **Pump No. 2 Mechanical Upgrade Package**

ASI will develop Bidding Documents for Pump No. 2 which will include the following main items or work scope efforts.

- Meet with maintenance staff and review inspection reports on latest pump review.
- Base assumption is for replacement of mechanical seals/stuffing box, bearings, pump impeller, and painting.
- Replacement of the seal water system and piping from the main station header to the pump connection.
- Discharge piping rehabilitation including replacement of couplings and fasteners.
- Replacement of instrumentation (vibration sensors, …) which is not covered under the Electrical package.
- Service on the steady floor bearings.
- Field measure the discharge piping thickness at each level and provide a conditional assessment report.
- Review and coordination with planned lining of the discharge piping interior and at the discharge chamber interface.

2. Construction Oversight

Construction oversight will be determined at a later date.

The estimated budget for this requested work is as follows:

Task 1 - $47,000 ASI, $18,000 NTH
Task 2 - TBD

Total Budget Requested: $65,000

We are ready to begin on the project upon your authorization to proceed. We look forward to working with you on making this a successful project for both Applied Science, Inc. and the OMID team.

Sincerely,
Applied Science, Inc.

John R. Michalski, P.E.
President

Project Design Cost Estimate for
Pump 2 Mechnical Upgrades Project
Oakland-Macomb Interceptor Drain Drainage District
18-Nov-26

			Total Cost
1) **Project Development: Engineering Consulting (ENG CON)**			
a Preliminary Design and Design (730639)		$	65,000
b Construction Contract Administration & Construction Materials Testing (731444)		$	-
c Scheduling Consultant (731458)		$	-
d Additional Special Services (730373)		$	-
	Sub-Total	**$**	**65,000**
2) **Right-of-Way Services (ROW)**			
a Easement Fees (731038)		$	-
b Legal Fees (easement) (731073)		$	-
c Permits (731115)		$	-
d County Personnel Time		$	-
	Sub-Total	**$**	**-**
3) **Exclusive County Services:**			
a Administration (ADM)		$	9,248
b Engineering-OCWRC (ENG)		$	26,786
c Construction Inspection (INS)		$	-
d Surveying (SUR)		$	-
e O&M/Equipment Startup and Training/Corrections-OCWRC (STD)		$	-
	Sub-Total	**$**	**36,000**
4) **Subtotal:**		**$**	**101,000**
5) **Contingency (10%)**		**$**	**10,000**
	Total Project Cost	**$**	**111,000**

6) **CVT Shares/Allocation: Capital Reserves**

By: 

Joel Brown
Chief Engineer

Agenda Item No. 8

NTH Engineering Work Order for OMID Operations and Manual Update

Oakland-Macomb Interceptor Drain Drainage District

TO: **Joseph Brezvai, 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: **NTH Engineering Work Order for OMID Operations and Manual Update**

DATE: **November 18, 2026**

As described in the appended proposal, the existing Oakland-Macomb Interceptor Drain (OMID) Operations and Maintenance Manual has served as a long-term general operational manual for the OMID flow control system. This manual provides users with an operational knowledge of the system and allows them to provide both a short-term and long-term maintenance and emergency response.

Currently, the manual includes the following:

- Background information regarding the purpose of the flow control system structures, pumping stations, and their design
- Details regarding the on-site flow control gate control cabinets,
- Details regarding operation of the gates via the Supervisory Control and Data Acquisition (SCADA) system,
- Details regarding the use of the flow control gates to access various reaches of sewer,
- Details to obtain authorization to access the sewer and details regarding lock-out and tag-out procedures
- Operation of the sluice gates and the Control Structure 6 Pump Station,
- Details regarding the Northeast Sewage Pumping Station (NESPS) as they pertain to the operation and maintenance of the OMID system,
- General maintenance of the system

.
The last revision to the manual was in 2024 and included some updates but did not account for all the relevant changes to the system that had occurred up to that time. Since the most recent significant update was established, a number of other system updates and/or new projects have added assets and functionality that were not covered by the existing O&M Manual. This includes, but is not limited to:

- Odor and Corrosion Systems at ST-S-1 and ST-S-3;
- Contracts 1, 2A, and 2B;
- Emergency Contingency Pumping Plan (still in implementation);
- Enhancements to flow control systems and NESPS functionality.

In order to retain its usefulness, the manual requires the addition of new sections, including the review and update of the existing Appendices along with the collecting of equipment manuals, maintenance histories, and other documentation. Further, the addition of features such as

electronic reference tables/sheets and document navigation functions (bookmarks and/or tabs) to improve content organization and user-friendliness are necessary.

Staff has asked the relevant design consultants, Applied Science, Inc., FK Engineering, Jacobs, METCO and NTH to participate in the updating the Manual. NTH has prepared the appended proposal for these consultants to provide the required updates, with the exception of METCO, which will provide the service under its existing operation and maintenance contract. There are sufficient available funds in capital reserves to pay for this work.

Requested Action: Approve the attached Engineering Work Order to increase NTH contract #WDCON8173 by a not-to-exceed amount of $97,948 to provide updates to the OMID Operations and Maintenance Manual.

Oakland-Macomb Interceptor Drain Drainage District
Northeast Sewage Pumping Station
For O&M Manual Update
Wayne County, Michigan

Engineering Work Order No. D-508 (1) **Date: 11/10/2026**

To: NTH Consultants, Ltd.

For: OMID Operations and Maintenance Manual Update

DESCRIPTION

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to OMID Operation and Maintenance Manual Update that falls under contract no. (CON00008173). This EWO serves as your approval for compensation of the following additional services as delineated in your attached November 9, 2026, Proposal.

1. **Scope of Services:**

- NTH: Updates to sections on Program Background and System Overview and the Northeast Sewage Pumping Station (NESPS). The development of new sections on Contracts 1, 2A, and 2B. Updates to the system map to include CS-12 and CS-13.

- ASI: Collaboration on document re-structuring and updates to sections on Flow Control Operations, the NESPS, and SCADA system control. The development of a section on Emergency Contingency Pumping Plan and the inclusion of existing plan documents.

- METCO: Collaboration on section updates for Flow Control Operations and SCADA system control. Section updates related to Sewer Access and Storage Flow Control Facilities/Structures (Control Structure (CS) 3, CS-5, CS-7, CS-8, and CS-9). The gathering of documentation related to recent maintenance work and warranties on new equipment in NESPS and elsewhere in the system. The addition of new equipment manuals and other documentation to the Appendices.

- Jacobs: The development of a new section on the Odor Control System (ST-S-1 and ST-S-3).

- FKE: Coordination on updates including progress meetings and central document control during update efforts. Review and incorporation of team contributions into the updated O&M Manual. Assistance in finalization of the Emergency Pumping Plan document. Document reformatting and the addition of organizational/navigational features. Updates to sections on CS-6/CS-12 and collaboration on updates to other existing sections and development of other new sections.

2. Schedule

The team anticipates that all new and updated manual sections can be completed by approximately March 1, 2027. The completion of the manual document, to include review of contributions, document restructuring, and the addition of organizational and navigational document features, is projected for April 1, 2027.

Fees for this Engineering Work Order shall be billed on a time and material basis according to the standard contract fee and rate schedule as modified by your proposal. The total amount of the Contract is to be increased by a not to exceed amount of $97,948 for this project. This amount is not to be exceeded without written authorization from this office.

RECOMMENDED	**DATE:** 11/10/2026	**ACCEPTED**	**DATE:** *11/10/2026*
By: *Shoaib Mirzad*		By:	
Shoaib Mirzad E.I.T Civil Engineer II OCWRC		Jeffrey Jaros President NTH Consultants, Ltd.	
APPROVED	**DATE:** 11/10/2026	**APPROVED**	**DATE:** Nov. 10, 2026
By: *Stephen Downing*		By: *Steven Korth*	
Stephen Downing Construction and Maintenance Manager MCPWO		Steve Korth, P.E. Chief Manager OCWRC	
Approved by the Drainage District Board on:			

Department No.:	CCN6010101	Account No.:	SC730639
Fund No:	FND82912	Program No.:	PRG149667
Project No:	PRJXXXX	Project Activity:	ENG_CONSULT
Contract No:	CON00008173	Contract Exp:	12/31/2026

NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

41780 Six Mile Rd., Suite 200; Northville, MI 48168
Phone 248-553-6300• Fax 248-324-5179

Oakland Macomb Interceptor Drain Drainage District c/o:
Mr. Joel Brown, P.E.
Chief Engineer
Office of the Oakland County Water Resources Commissioner
One Public Works Drive, Building 95 West
Waterford, MI 48328-1907

November 9, 2026
NTH Proposal No.: OP26003889

Mr. Stephen Downing
Construction and Maintenance Manager
Office of Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036-1005

RE: Proposal to Provide Engineering Services for OMID Operations and Maintenance Manual Update

Dear Messrs. Brown and Downing:

In accordance with our recent discussions, NTH Consultants, Ltd. (NTH) is pleased to submit this proposal to perform an update to the OMID Operations and Maintenance Manual (O&M Manual). To best support this project for the OMID Drainage District (OMIDDD), NTH has assembled a team of consultants – FK Engineering Associates (FKE), Applied Science Inc. (ASI), Metco Consulting Engineers (METCO), and Jacobs – who are well-acquainted with the unique operations of the OMID system. The following sections detail the project background, scope of services, professional fees, and terms and conditions.

PROJECT BACKGROUND

The existing OMID O&M Manual has served as a long-term general operational manual for the Oakland-Macomb Interceptor Drain (OMID) flow control system, allowing users to gain a working knowledge of the system, for the purposes of short- and long-term maintenance and emergency response. Currently, the O&M manual includes the following:

- Background information regarding the purpose of the flow control system structures, pumping stations, and their design,
- Details regarding the on-site flow control gate control cabinets,
- Details regarding operation of the gates via the SCADA system,
- Details regarding the use of the flow control gates to access various reaches of sewer,
- Procedures to obtain authorization to access the sewer and details regarding lock-out/tag-out,
- Operation of the sluice gates and the Control Structure 6 Pump Station,
- Details regarding the Northeast Sewage Pumping Station (NESPS) as they pertain to the operation and maintenance of the OMID system, and
- General maintenance of the system.

The last revision to the manual was in 2024 and included some updates but did not account for all the relevant changes to the system that had occurred up to that time. Since the most recent significant update, a number of other system updates and/or new projects have added assets and functionality that are not currently covered by the existing O&M Manual. This includes, but is not limited to, the Odor and Corrosion Systems at ST-S-1 and ST-S-3; NI-EA Contracts 1, 2A, and 2B; the Emergency Contingency Pumping Plan (still in implementation); and enhancements to flow control systems and NESPS functionality. In order to retain its usefulness, the O&M Manual requires updates to several sections and subsections, the addition of new sections, the review and update of the existing Appendices (collecting equipment manuals, maintenance histories, and other documentation), and the addition of features such as electronic reference tables/sheets and document navigation functions (bookmarks and/or tabs) to improve content organization and user-friendliness.

SCOPE OF SERVICES

To perform the O&M Manual update, the project team will include representatives from the firms engaged in design, operation, and/or construction administration related to recent and ongoing system projects or other upgrades. The entities involved and their responsibilities are outlined below. In addition to these tasks, contributors will attend regular progress meetings and collaboratively share information as necessary to finalize the manual update. The status of the manual update will be regularly shared with representatives of OMIDDD during regular Owners Meetings and/or project-specific progress meetings. The general scope of effort for each firm is summarized below:

- NTH: Updates to sections on Program Background and System Overview and the Northeast Sewage Pumping Station (NESPS). The development of new sections on Contracts 1, 2A, and 2B. Updates to the system map to include CS-12 and CS-13.
- ASI: Collaboration on document re-structuring and updates to sections on Flow Control Operations, the NESPS, and SCADA system control. The development of a section on Emergency Contingency Pumping Plan and the inclusion of existing plan documents.
- METCO: Collaboration on section updates for Flow Control Operations and SCADA system control. Section updates related to Sewer Access and Storage Flow Control Facilities/Structures (Control Structure (CS) 3, CS-5, CS-7, CS-8, and CS-9). The gathering of documentation related to recent maintenance work and warranties on new equipment in NESPS and elsewhere in the system. The addition of new equipment manuals and other documentation to the Appendices.
- Jacobs: The development of a new section on the Odor Control System (ST-S-1 and ST-S-3).
- FKE: Coordination on updates including progress meetings and central document control during update efforts. Review and incorporation of team contributions into the updated O&M Manual. Assistance in finalization of the Emergency Contingency Pumping Plan document. Document reformatting and the addition of organizational/navigational features. Updates to sections on CS-6/CS-12 and collaboration on updates to other existing sections and development of other new sections.

SCHEDULE

The project team is prepared to start work on the O&M Manual update immediately. Bi-weekly progress meetings are being held until they are deemed no longer necessary to maintain project progress.

The team anticipates that all new and updated manual sections can be completed by approximately March 1, 2027. The completion of the manual document, to include review of contributions, document restructuring, and the addition of organizational and navigational document features, is projected for April 1, 2027.

PROFESSIONAL FEES

Our anticipated professional fee for the services outlined above is $97,948. Fees for our services will be charged on a cost-plus-fixed-fee basis with a not-to-exceed budget in accordance with the attached work plan. Please note that, based on WRC direction, Metco's efforts would be incurred directly through another existing contract and, as such, are not included herein.

TERMS AND CONDITIONS

Our services under this task will be in accordance with the terms and conditions of our existing contract with the OMID Drainage Board dated June 2009.

We appreciate this opportunity to be of further service to the OMID Drainage Board. If you have any questions with respect to this proposal, please do not hesitate to call us.

Sincerely,

NTH Consultants, Ltd.

Signed by:
Abdulnasser Almadhoun
3BDFABECCA0641D...

Abdulnasser Almadhoun, P.E.
Principal Engineer

Signed by:
Saju Sachidanandan
04261F17B85445C...

Saju Sachidanandan, P.E.
Sr. Principal Engineer

AYA/SS/mlk

Attachments

cc: Fritz Klinger, P.E. – FK Engineering

NTH Consultants, Ltd.

PROJECT FEE ESTIMATING SHEET

Client Name: Oakland/Macomb Authority
Project Description: OMID O&M
Prepared by: A. Almadhoun, P.E/L. Gilbert, P.E./F. Klingler, P.E.
Assumptions: See below

Markup on Labor: 12.0%
Markup on Subs 6.0%
Markup on Expenses 5.0%

Detailed List of Steps or Tasks Required To Complete This Project	SS Proj Mgr $80	LTG CCA Eng. $76	AYA Principal Eng/S $71	Prj. Eng.	Field Eng.	Staff Eng.	CAD Tech. $44	Support Staff $35	NTH Overhead = 1.88	Principal/ PM	Sr. Proj/ Eng	Proj Eng	Field Eng	Staff Eng	Field Tech.	Support Staff	Principal/ PM	Sr. Proj/ Eng	Proj Eng	Field Eng	Staff Eng	Field Tech.	Support Staff	Estimated Expenses	Estimated Subconsultant's Expenses	Subconsultant's Name	Fee Estimate
OMID O&M																											$0
Program Background and System Overview (O&M Manual TOC Item 2.0)		40	30																								$16,676
Flow Control Facilities/Structures - NESPS (ASI/NTH - O&M Manual TOC Item 3.0/3.4)		20	12																					$100			$7,756
Emergency Contingency Pumping Plan (ASI/NTH - O&M Manual TOC Item 3.0/3.5)		12	10																								$5,232
CAD Drafting Support							8																	$48			$1,186
Support/Admin Staff								8																			$903
Project Management (contract coordination, invoicing, and QC)	8																										$2,064
																											$0
Services by Subconsultants (Refer to the proposal for scope)																											$0
FK Engineering (FKE) - Hours and rates are included as a separate attachment.																									$38,800	FKE	$41,128
Applied Science Inc. (ASI) - Hours and rates are included as a separate attachment.																									$15,000	ASI	$15,900
Jacobs - Hours and rates are included as a separate attachment.																									$6,700	Jacobs	$7,102
METCO Consulting Engineers (METCO) - Not included under this contract.																											$0
																											$0
																								$148	$60,500		
																									TOTAL ESTIMATED FEE		**$97,948**

2026 OMIDDD O&M Manual Update - FK Engineering					
FKE Personnel	**Tasks**	**Hours**	**Rate**	**Total**	**Notes**
BWK*	Initial update coordination	8	$ 194	$ 1,552	updating report structure, divvying up and distibuting assignments
FJK**	Initial update coordination	2	$ 296	$ 592	
BWK	Progress Meetings	20	$ 194	$ 3,880	Hosting bi-weekly meetings till end of 2026, minutes, agenda, scheduling.
FJK	Progress Meetings	8	$ 296	$ 2,368	Attending meetings and reviewing agendas/minutes
BWK	Gather and Integrate updates	48	$ 194	$ 9,312	Communication with team members, gathering their contributions, reviewing and working them into overall report
BWK	Section updates	32	$ 194	$ 6,208	Writing of new sections and updating existing sections based on assignments
BWK	Document formatting and review	32	$ 194	$ 6,208	Pulling together overall document, including bookmarks and hyperlinks
Document Control Spec	Document formatting and review	57	$ 110	$ 6,270	Alexa and/or Jojo
FJK	Manual Review	8	$ 296	$ 2,368	

*BWK - Brad Kelly
**FJK - Fritz Klingler

Total	**$ 38,758.00**

2026 OMIDDD O&M Manual Update - Applied Science, Inc.					
ASI Personnel	**Tasks**	**Hours**	**Rate**	**Total**	**Notes**
John Michalski	Update manual, attend meetings, and PM	60	$ 200	$ 12,000	
Staff Engineer	Update manual	25	$ 120	$ 3,000	

Total	**$ 15,000.00**

OMID System Wide O&M Manual Updates
ST-S-1 and ST-S-3 One Page Total Summary and One Page NESPS Biotrickling Filter Summmay
Level-of-Effort (Labor Hours) and Fee Worksheet

Updated: September 2, 2026

Task and Subtask Description	Jacobs' Odor Study Team										Labor Hours and Fee Summary			
	Brian McGannon		Bill Desing		Steve Graziano		Brendan Wrobel		Sandy Pepper					
	Project Manager		Senior Technologist		Project Engineer		Project Engineer		Administrative Support					
		$240.49		$351.32		$205.64		$138.82		$129.53				
	Hours	Costs	Hours	Costs	Hours	Costs	Hours	Costs	Hours	Costs	Hours	Costs	Expenses	Total Costs
Task 1 - Project Management														
Invoicing	0	$0	0	$0	0	$0	0	$0	2	$259	2	$259	$0	$259
Meetings	8	$1,924	0	$0	0	$0	0	$0	0	$0	8	$1,924	$0	$1,924
Task 1 Subtotal	**8**	**$1,924**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**2**	**$259**	**10**	**$2,183**	**$0**	**$2,183**
Task 2 - Section 6 Odor and Corrosion Systems (ST-S-1, ST-S-3 and NESPS Biotrickling Filter)														
Site Visit to Capture Photos	0	$0	0	$0	0	$0	3	$416	0	$0	3	$416	$75	$491
Draft Sections	0	$0	0	$0	12	$2,468	0	$0	0	$0	12	$2,468	$0	$2,468
Final Sections	0	$0	0	$0	4	$823	0	$0	0	$0	4	$823	$0	$823
QAQC - Draft and Final	0	$0	2	$703	0	$0	0	$0	0	$0	2	$703	$0	$703
Task 2 Subtotal	**0**	**$0**	**2**	**$703**	**16**	**$3,290**	**3**	**$416**	**0**	**$0**	**21**	**$4,409**	**$75**	**$4,484**
Project Total	**8**	**1,924**	**2**	**703**	**16**	**3,290**	**3**	**416**	**2**	**259**	**31**	**6,592**	**75**	**6,667**

Notes: This is a ballpark cost estimate.
Scope includes:
1. Up to 8 hours of meetings and time to develop invoices.
2.Draft and Final sections of a one page summary for the ST-S-1 and ST-S-3 odor control system and include Contractor provided O&M manuals as reference as an attachment.
3. Draft and Final sections of a one page summary for the NESPS Biotrickling Filter and include Contractor provided O&M manual as reference as an attachment.
4. QAQC of draft and final sections.
5. Expenses related to site visit travel.

Agenda Item No. 9

Change Order

CHANGE ORDER NO. 0008

The Oakland Macomb Interceptor Drain, Drainage District
NIEA OMID Contract #2 PCI 18 & 19 Rehab (1-7408)
For Construction of CON00010396 - NI-EA OMID Contract No. 2B
Adjustment to Contract Cost

Authorization for Changes In Contract

Department No.:	6010101	Account No.:	SC731472
Fund No.:	84918	Program No.:	149015
Project No.:	1-7408	Project Activity:	1-FAC-ACQ
Contractor	Z Contractors, Inc.	Contract No.:	CON00010396 - NI-EA OMID Contract No. 2B
	50500 Design Lane, Shelby Township, MI 48315	Date of Contract:	6/29/2023
		Completion Date:	1/27/2027

Description: Item 008-1 (Change/ Delete)
Delete: ($1,570,800.00)

Description and Reason: Deletion of Original Interceptor Lining Segments
The originally proposed scope included four individual proprietary lining products in 200 lf. segments each. Due to scheduling conflicts with a GLWA project it was agreed to modify the OMIDDD's project scope to a single lining product that will allow a simpler scope and thus reduce the overall schedule. This Change Order item will delete SOV Items BB37-1, BB38-1, BB39-1, and BB-40-1, as follows:
SOV Item 37-1 $401,200.00
SOV Item 38-1 $439,200.00
SOV Item 39-1 $346,000.00
SOV Item 40-1 $384,400.00
Total Value: $1,570,800.00 (Delete)
(Note: Change Order Item 008-2 will address the corresponding Additive item that provides for the revised lining concept.)

Item 008-2 (Change/ Add)
Add: $2,062,072.00

Description and Reason: Addition of GeoKrete Interceptor Lining (800 lf.)
The selection of GeoKrete Polymer Mortar was chosen as the sole product for use in lining the entire 800 lf. segment of the NIEA PCI-19 interceptor. This product was originally approved as one of the four lining projects and was recommended by the Contractor based on previous favorable performance on other projects. The product selection was approved by the OMIDD Engineer based on both technical evaluation and on previous performance in the PCI-4 interceptor. The cost for this substitution is summarized as:
Item 008-02a - GeoKrete lining: 800 lf @ $2,413.79/lf, Total: $1,931,032
Item 00-02b - additional GeoKrete material* 2080 bags @ $63/bag Total: $131,040
*Item 008-02a includes price of material as calculated for the specified length and thickness of coating with an additional 10% waste factor. (1,040 bags). The NTE allowance for additional material includes up to 30% waste material (3,120 bags). The quantity for Item 007-03b accounts for this extra 20% of material and is calculated by the difference of 3,120 - 1,040 = 2,080 bags

Attachments:

11-6-24

CHANGE ORDER NO. 0008

For Construction of CON00010396 - NI-EA OMID Contract No. 2B

Work Directive No.20
GeoKrete Specification Brochure

Item 008-03 (Extension of Contract Time)
Add: 139 Calendar Days
Description and Reason: Adjust Contract Time
The Contract Time is adjusted in accordance with the negotiated Agreement with GLWA to complete diversion related activities (i.e. lining) by December 31, 2026.
Current Substantial Completion: August 14, 2026
Adjusted Substantial Completion: December 31, 2026
Increase: 139 Days
Current Final Completion: September 10, 2026
Adjusted Final Completion: January 27, 2027
Increase: 139 Days

Item 008-004: Interim Milestone Completion Date
Description and Reason: (Add/ Milestone Date)
Establish Interim Final Completion Milestone Date (on December 11, 2026)
An Interim Completion Milestone date is added to the Contract requirements to reflect the current, demonstrated level of PCI-19 GeoKrete lining increased production and additionally the continuing daily direct costs to the Project Owner and other associated Agencies resulting from extended working days within the interceptor. This Interim Milestone date is intended to provide a specified date upon which the Contractor must complete all work in the Interceptor, including (but not limited to) GeoKrete lining installation, lining detail items (Including transition tapers and liner monument installation), liner QA/QC testing, punch-list items, final cleanup, and post lining construction videos within the PCI-19 interceptor that require flow diversion from the NESPS and/ or associated systems.
Failure to complete the indicated Work by the date of December 11, 2026, will result in the assessment of Liquidated Damages by the Project Owner in an amount of the per diem value of Five Thousand Dollars ($5,000) per day as described in the Contract Documents for Substantial Completion (The Agreement, Section 005200, Article 3.C) and continuing until completion of all work within the Interceptor requiring flow diversion.
Remaining Contract Work not included in this specific scope may continue toward the achievement of Substantial and Final Completion as defined by the "Agreement", as modified by this Change Order 8, Item 008-03.

Ref. No.	Description Reason	Value Change	Time Change
Deletion of Original Interceptor Lining Segments	Item 008-1	-$1,570,800.00	0

CHANGE ORDER NO. 0008

For Construction of CON00010396 - NI-EA OMID Contract No. 2B

Addition of Geokrete Interceptor Lining (800 lf)	Item 008-2	$2,062,072.00	0
Extension of Contract Time	Item 008-3	$0.00	139

CHANGE ORDER NO. 0008

For Construction of CON00010396 - NI-EA OMID Contract No. 2B

Notice to Proceed Date:			3/10/2025
Original Contract Substantial Completion Date:			10/6/2025
Original Final Completion Date:			5/25/2025
Original Contract Value:			$3,108,150.00
Previous C.O. Values			$2,914,949.67
Change Order No.	0008	$ Value	$491,272.00
Change Order No.	0008	Days	139
Adjusted Contract Value			**$6,514,371.67**
Adjusted Contract Substantial Completion Date			**12/31/2026**
Adjusted Contract Final Completion Date			**1/27/2027**

CHANGE ORDER NO. 0008

For Construction of CON00010396 - NI-EA OMID Contract No. 2B

Prepared By: _____ Date: _____
Larry Gilbert, P.E.
Sr. Principal Engineer, NTH

Recommended By: _____ Date: _____
Saju Sachidanandan, P.E.
Sr. Vice President, NTH

Approved By: _____ Date: _____
Jen Cook, P.E.
Assistant Chief Engineer, WRC

Approved By: _____ Date: _____
Steve Downing
Construction and Maintenance Manager, MCPW

Approved By: _____ Date: _____
Joel Brown
Chief Engineer, WRC

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

Except as included in this Change Order, the Agreement remains unchanged. Agreement on this Change Order shall constitute a final settlement of all matters relating to the change in the Work that is the subject of this Change Order, including, but not limited to, all direct and indirect costs associated with such change, and unchanged work, and any and all adjustments to the Contract Sum and the Contract Time. By signing this Change Order, Contractor attests that the change in the amount of the Contract Sum authorized by the Change Order represents compensation in full for all costs, markup, and expenses, direct and indirect, associated with or attributable to the Change Order, including any costs resulting from or caused by delays, impacts, acceleration, disruption or loss of efficiency encountered by Construction Manager in the performance of the Work through the date of the Change Order. In addition, Contractor for itself, its Subcontractors and any other persons or entities acting by, through or under them (collectively, "Releasors"), releases Owner, without any reservations, from any and all actual or potential claims or demands, disruptions, additional work, additional compensation or an extension of Contract Time, which Releasors may have, or in the future might have, against Owner, by reason of, based on, or in any manner connected with the subject of this Change Order or the performance of the Work identified in this Change Order.

The Contractor agrees to do the work and/or accepts quantity adjustments described above and agrees to accept the Contract Sum and Contract Time adjustments in full on the basis indicated.

Accepted By: _____ Date: _____
Robert Herrick
Z Contractors, Inc.

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

This Change Order No. 0008 was approved by the Drainage Board on:

Agenda Item No. 10

Construction Estimate

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD
For Construction of the NI-EA OMID Contracts 2 A and 2 B - PCI 18 and 19 Rehabilitation
Located in the City of Detroit, Wayne County, Michigan
WRC P.O. 00111576

Regular Construction Estimate No. 20 Rev. (Rev. 11-11-2026) — Period 10-1-26 through 10-31-26

Department No.:	6010101	Account No.:	SC 731472
	FND84918	Program No.:	PRG 149015
Project No.:	PRJ-17408	Activity:	1-FAC-ACQ

Contractor:
Z Contractors, Inc.
50500 Design Lane
Shelby Township, MI 48315

Vendor # TBD Contract # 10396
License # 07130 exp. 4-30-25
Final Completion Date: March 13,2026

NTP 3/10/25
(Adjusted- C.O.#0003)

Original Construction Contract Amount	(Contract 2-B, Only)	$3,108,150.00
Previous Change Orders		$2,261,633.03
Change Orders This Estimate: Nos. 7 and 8		$1,144,588.64
Total Net Change Orders:		$3,406,221.67
Adjusted Contract Amount: (Contract 2B Only)		$6,514,371.67
Total Earned to Date		$4,291,376.00
Less Deductions		$0.00
Gross Estimate, Work in Place	66% Complete	$4,291,376.00
Less Amount Reserved : 10% of amount earned of 50% Con.Value		$325,718.59
Total Amount Allowed To Date:		$3,965,657.41
Less Previous Estimates		$2,315,675.41
Net Pay Request To Be Paid To Contractor:		$1,649,982.00
Reserve Payment to Contractor:		$0.00
Balance to Finish: $ 2,222,995.67	Accounting Auditor:	
Amount to be Reserved from Above		$325,718.59
Less Previous Transfers To Reserve:		$257,297.27
Additional Value of Reserve for this Application		$68,421.32

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

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

Recommended by: _____
Jennifer Cook, P.E.; Oakland County WRC Date: _____

Recommended by: _____
Stephen Downing; Macomb County OPWC Date: _____

Recommended by: _____
Joel Brown, P.E.; Oakland County WRC Date: _____

Regular Pay Estimate No. 20 Rev.; 10-1-26 through 10-31-26 2026 Approved By Board On: _____

11-11-26

Agenda Item No. 11

Status of OMID Repairs Project

Oakland Macomb Interceptor Drain Drainage District (OMIDDD)

Progress Update for Various Rehab Projects

Prepared by:
F. Klingler, P.E., B. Kelly, P.E., FK Engineering Assoc.
L. Gilbert, P.E., NTH Consultants, Ltd.
J. Michalski, P.E., Applied Science, Inc.; T. Moore, Metco Services, Inc.
B. McGannon, P.E., Jacobs Consultants Inc.

November 18, 2026 OMIDDD Board Meeting

The following provides a status update as of the writing of this report (November 11, 2026) for the work completed for the Oakland-Macomb Interceptor Drain Repair Program (SRF Segments 1-4; Contract 7 PCI-4 repairs; Maintenance Repairs in PCI-5 through PCI-11A; Control Structure Modifications; NIEA Repairs; NESPS Upgrades; Odor/ Corrosion Control System, and other related work):

SRF Segment 1 Status:

Contracts 1&2: Complete

System-wide Odor/Corrosion Study: Complete

Odor/Corrosion Control Systems Design & Construction: Close-out

Amount Invoiced (Reported through Sept 8, 2026):

- CCC Construction Contract Value (includes C.O. #4): $7,665,569.35
- Jacobs Team Project Budget (with EWO#5): $2,375,161.86

Schedule Status:

- Construction Notice to Proceed was September 10, 2024.
- Substantial Completion for ST-S-1 and ST-S-3 was achieved on time; final Completion per contract was extended to August 31, 2026 to allow for punch list items.

Status of Major Project Tasks:

- All significant work is complete.
- Project close out in progress. Contractor working on providing remaining redlines, O&Ms, warranties and certificates related to the project. Final project completion expected end of November 2026.
- Additional work at the CS-6/CS-12 site has been on hold until the completion of the ST-S-1 and ST-S-3 vapor-phase facilities. Since these facilities are operational, team is currently reviewing the monitoring plan, fan testing, and set up for a condition assessment of existing vessels at the CS-6 site. This work is planned to take place in November 2026.
- Conduct site investigations and collect additional H2S and air pressure data within the NI-EA Near Meldrum and Mt. Elliot currently on hold.

SRF Segment 2 (Contract 3) Status: Complete

SRF Segment 3 (Contract 4) Status: Complete

SRF Segment 4 (Contracts 5-7) Status: Complete

NESPS Odor/Corrosion Control System: Complete

NESPS & OMID Maintenance and Operations Status:

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

- Mersino is under contract for standby emergency bypass pumping. No activity this month.
- The OMIDDD Project Team has finalized design (pending final property agreements) for keeping the 15 Mile Road bypass pumping arrangement (initially constructed in summer 2021) intact and buried.
- ITC Licensing Agreement for pipe bury signed and ready for Board review
- Solicitation of pipe-bury bids is on hold pending final agreement with City of Sterling Hts.
- Remaining items in the final emergency plan include punch-list and modifications at the 15 Mile Road Site, and overall optimization of the Emergency Plan per above. The final plan document will be revised after final installation (bury) of the emergency pumping conveyance conduit.

Additional work being performed under Metco Maintenance Contract for NESPS:

- Mechanical and Electrical corrective/preventative maintenance schedules continue.
- Coordination between OMIDDD, GLWA, and MIDDD is ongoing and has not impacted station operations or the ability to meet demand.
- Next date for screen cleaning will be in December 2026 (last date was Sept). A plan for wet well cleaning and debris removal is in the planning stages, possibly in the spring of 2027

Overall NESPS Station Performance and Maintenance Report by METCO:

- NESPS operational processes remain stable. Pump performance and related equipment, i.e. electrical, instrumentation, and mechanical are in good condition. Dry weather conditions have been dominant since last report. Pump discharge flows on average of 100 cfs.
- Mechanical: Sanitary Pump Nos. 1, 2, 3, 4, 5, 6, and dewatering pumps remain ready for duty at the time of this report. Current Total (wet weather) Pumping Capacity equals 550cfs. Contract Capacity is 423cfs with a Firm Capacity of 400cfs.
- At the time of this report Pump #3 and Pump #4 remain locked-out and temporarily sidelined by Contract 2B. Both Pumps are ready for wet weather duty as needed.
- An Equipment Shutdown Request (ESR) has been approved for September 1 through December 31, 2026 in support of Contract 2B (PCI-18/19 Rehab and Pilot Lining project).
- NESPS/GLWA LOTO (Lock-Out Tag-Out) protocols continue as a primary means of safety communication. ESR/LOTO Communication protocols were revisited with GLWA/OMID. NESPS coordination/communication with GLWA also remains good.
- CMMS: NEXGEN asset management in use. Monthly status meetings are being held with OMIDDD. Contractors are fulfilling their NEXGEN requirements with no outstanding issues.
- HVAC: Monitoring is conducted daily, Oxygen and other sensors performing as designed. Unit air filters are re-stocked and changed as required.

- Bio Filter performance has been acceptable. No odor-related complaints have been reported.
- Overall General Housekeeping tasks remain in order. Maintenance activities continue to be addressed in a timely manner.





Supply Air Room restoration



Generator Enclosure restoration work

Control Structures Performance Report (CS-5, CS-6, CS-7, CS-8, CS-9):

- Daily flow control operations using the control structures continue to support MID/OMID/NIEA repair and improvement projects on an as-needed basis (weather permitting).
- No excess odors noticed by OMIDDD personnel during normal field operations. Routine manhole cover inspections within the ITC Corridor will re-commence next summer.
- All LOTO protocols remain in place.
- System-wide remote communications are good.
- CS-9, CS-6, CS-5 and CS-7 gates are in stand-by mode and ready for service.
- CS-6 Wet Well Inlet gate actuator piston has a seal failure (end of life condition). Repair will take considerable effort. The current condition does not constrain flow control abilities. CS-6 Sewer gate remains fully functional. Future repair possibilities to be determined during rehab project.
- CS-8 is currently on Emergency Use Only status due to a gate thrust nut issue. Repair plan was modified in the field due to unknown structural conditions on the gate. The emergency-use-only condition has not impacted OMID operations. A permanent fix will be implemented during the rehabilitation project planned for 2027.
- CS-9 is operational with minor hydraulic oil leaks localized to the limit switch connector. Replacement parts have been delivered but a repair has not yet been scheduled.
- Routine daily rounds and inspections are ongoing.

Other System Operation Issues

- ST-S-1 (Dodge Park Road) and ST-S-3 (Sorrento Boulevard) Odor Control Units are on schedule for routine monitoring and inspecting. No odor/noise complaints. Asset management of assets are being arranged in NEXGEN.

OMID Control Structure Upgrades Status (on hold):

- ASI is complete with design of major upgrades to control structures which takes into consideration long-term operability.
- Currently considering options for contract delivery (i.e., one or multiple contracts, etc.)
- Currently evaluating potential impacts on other projects and best timing for construction, tentatively planned for 2027, starting with CS-7 and CS-8.

OMID System 6-Year Inspection and Related Repair Status:

- All inspections are complete and the final report has been finalized for previous inspection period. Selected PCI-10 and PCI-11 repairs identified during the inspection were completed in February and early March 2026, and coordination is underway with a task-order contractor to schedule the repair of other PCI-10 and PCI-11 defects.

NIEA Rehabilitation: Construction

Contract 1 (PCI-4 Rehabilitation): Complete

Contract 2A (NIEA Control Structures and Selected Repairs): Complete

Contract 2B (PCI-18/19 Rehab and Lining): Construction Ongoing

Amt Invoiced: Contract 2B has completed $4,457324.06 out of the adjusted contract value of $6,514,371.67 (68 % Contract Value complete). The revised contract value reflects the changes in the interceptor lining details.

Schedule Status: Flow diversion operations continue. No odor complaints have been received during current flow diversion. Contract 2B NTP was March 10, 2025; currently projecting completion in late December 2026, final site restoration following when practical.

Contract 2B (PCI -18/19 Rehabilitation and Lining at Meldrum/Mt. Elliott) Construction Status:

- Construction of the Seven Mile diversion shaft and PC 663 main bulkhead gate (including hardware and instrumentation) is complete under Contract 2A.
- Contract 2B has resumed active in-tunnel lining work with the start of Geokrete lining in PCI-19, with favorable production rates. To expedite in-tunnel lining work, due to other conflicting projects in the GLWA system, Geokrete is being used exclusively for the 800 linear feet of lining under C2B. An agreement was reached with GLWA to allow the OMID lining work to continue through Dec. 31, 2026 while a conflicting GLWA project at the Leib Screening facility was pushed back until Jan 2027. The full-time diversion of flow at the NESPS to the 7 Mile Relief sewer will continue until lining work is completed or until December 31, 2026, whichever is first.
- The ferric chloride dosing facility has been relocated to PCI-5-MH 101 (upstream of NESPS) to improve the chemical mixing process. The absence of odor complaints has allowed a chemical dosing pause; however, GLWA has requested further dosing to mitigate strong odor complaints at the Leib facility which has had favorable results.
- PCI-19 debris removal and chemical grouting is complete. Odor monitoring equipment and dataloggers have been calibrated and re-installed at 5 locations.
- Recent operational issues with the GLWA VR-15 Control Gate (at Mt. Elliott and Gratiot) have forced GLWA to remove portions of roadway to allow installation of a temporary stop log to provide isolation of the control gate. As of October 7, 2026, gate repairs have been completed to allow closure of VR-15 and NESPS flow diversion to resume.
- Some interruptions of in-pipe rehabilitation have occurred as a result of GLWA in-system issues related to the NIEA diversion.

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

Work Item/ Milestone	Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
Contract Award and NTP	**$2,400,570**		**12/16/2020 and 1/04/2021 (Contract 1) 6/20/23 and 7/1/23 (Contract 2)**
Completion of Construction	**$3,500,000**	**$28,630,000**	**Contract 1, SC at 1/24; FC 4/24 Contract 2A& B, est. SC 12/26 (tentative).**



Sewer Jetting and Vacuuming Debris



Geokrete Mixing Operations



Pressure washing prior to Geokrete application





Geokrete application

NESPS Pump & Electrical Upgrades: Construction Close-out

Budget Status: The total construction amount invoiced as of February 28, 2026 is $49,925,607.77 which is the final value of work completed.

Schedule Status: Work delay was 25 months beyond the approved contract completion date.

The following Design Team and Construction Services Effort is active:

- Construction Phase services are complete, with the exception of addressing fire alarm system issues identified during final inspections. Wet Well elevator work and permitting in the existing NESPS building has been completed and final permits issued by the City of Detroit.
- As-builts, final close-out, and related efforts are ongoing.

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

Work Item/ Milestone		Design/CCA Budget	Const Budget	Estimated Delivery Date
2	**Final Basis of Design**			**5/31/2019**
9	**Final Package Development**			**8/14/2020**
	Subtotal	**$3,826,000**		
10	**Substantial Completion**	**$2,500,000 (est.)**	**$49,125,101**	**Sept 30 2025 (late)**
11	**Final Completion**		**$49,925,607**	**March 2026 (late)**

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

Following grouting efforts to eliminate infiltration upstream of CS-12 in August 2026, the only remaining OMIDDD item is the transition between the tunnel and shaft opening at CS-12. This work is to be completed when flow control allows in the winter of 2027.

OMIDDD Operation and Maintenance Manual Update

A working group has been established to further develop and finalize the system Operation and Maintenance Manual. To accommodate the available information and optimize usability, the existing O&M manual has been restructured and sections to be added or revised have been assigned with a proposal currently under review. The update is currently projected for completion in early 2027. O&M Manual is currently being revised to include new structures, recently modified structures, new monitoring equipment, EGLE approval of gate use for long term flow management, emergency protocols, and recent inspection and repair status. Manual will also be made more “user friendly” and accessible.

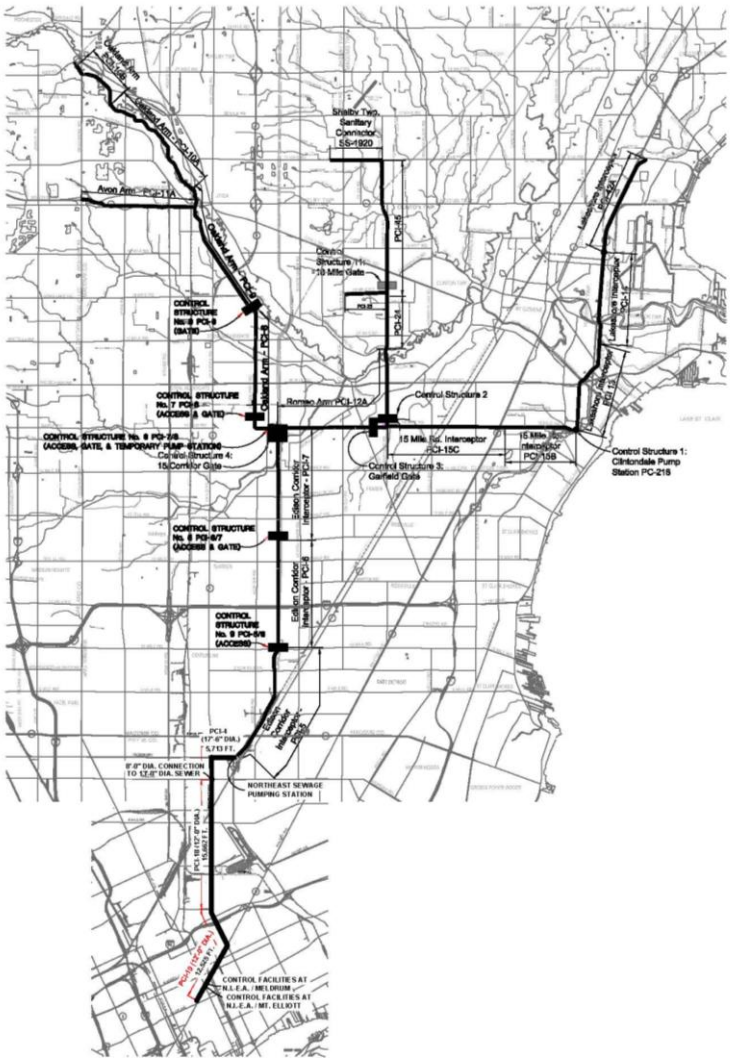
Summary of OMID Design and Construction Status:

Work In Construction Since 2009							
Seg. No	Contract No. (Description)	Contractor	Const. Comp?	As-Builts Final?	Balancing Change Order?	Contractor Closed Out?	Easements Settled?
1	Contract 1 (CS-9, 5, 3)	Ric-Man	Y	Y	Y	Y	Y
1	Contract 2 (CS-6, 7, 8)	Ric-Man	Y	Y	Y	Y	Y
2	Contract 3-2E (Gatehouse)	IWPC (Weiss)	Y	Y	Y	Y	N/A

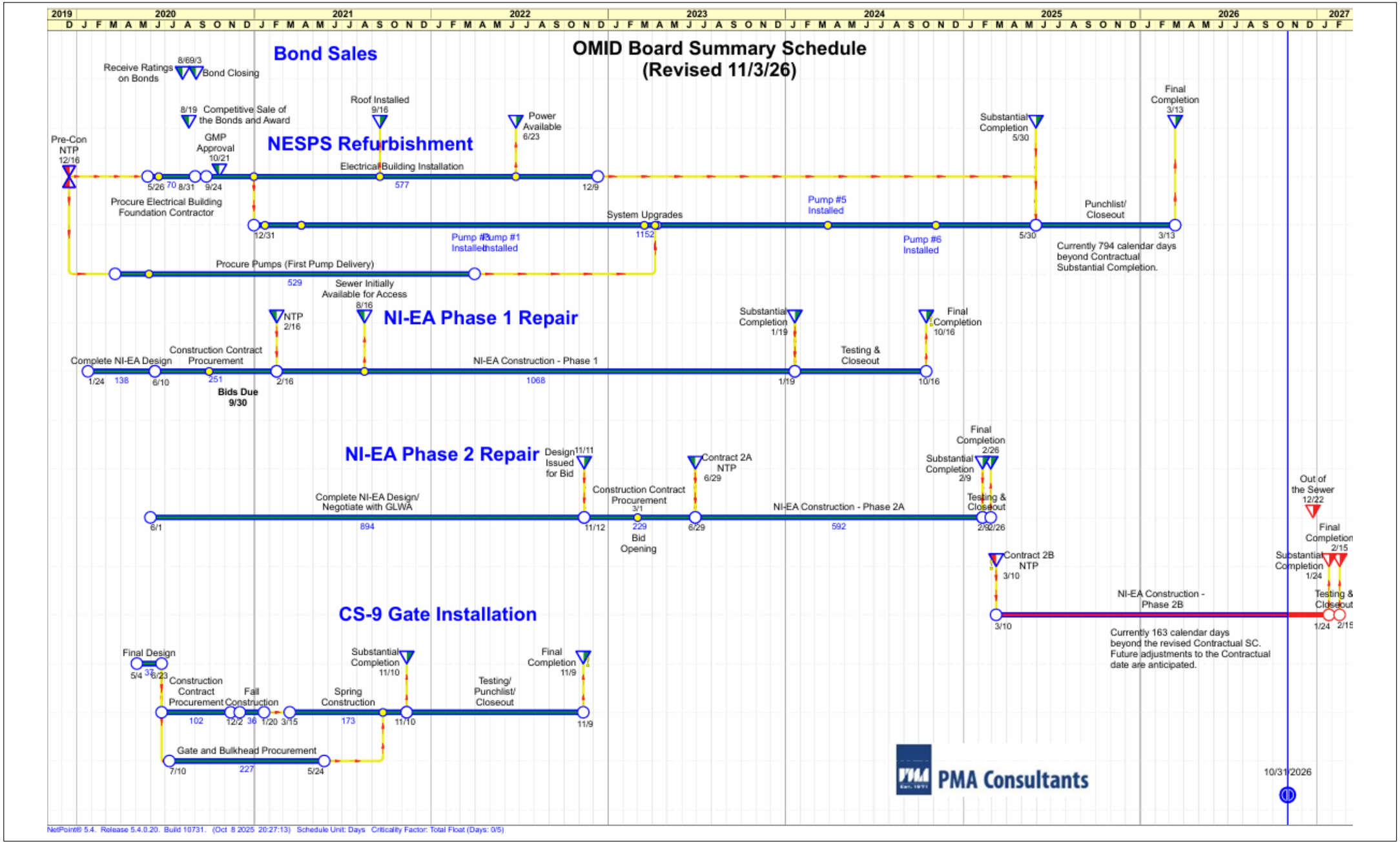
2	Contract 3 (Grouting PCI-5 thru 8)	IWPC	Y	Y	Y	Y	Y
3	Contract 4 (Lining PCI-5 thru 8)	Jay Dee Cont.	Y	Y	Y	Y	Y
4	Contract 5 (Lining PCI-9, 10A/B)	Lanzo	Y	Y	Y	Y	Y
4	Contract 6 (Lining PCI-11A)	Lanzo	Y	Y	Y	Y	Y
N/A	Contract 7 (Lining 110' of NIEA)	IWPC	Y	Y	Y	Y	N/A
N/A	Odor/Corrosion Control System	CSM	Y	Y	Y	Y	N/A
N/A	Control Structure Modifications	CSM/Hesco/MCE	Y/Y/Y	Y/Y/Y	Y/Y/Y	Y/Y/Y	N/A
N/A	OMID Maintenance Repairs	Doetsch	Y	Y	Y	Y	N/A
N/A	CS-9 Gate Modifications	Walsh as CMR	Y	Y	Y	Y	Y
N/A	NESPS Pump & Electrical Upgrade	ASI;Walsh as CMAR	Y	N	N	N	Y
N/A	3-year inspection and repairs	Doetsch	Y	Y	Y	Y	N/A
N/A	6-year inspection	Doetsch	Y	Y	Y	Y	N/A
N/A	NIEA-OMIDDD Contract 1 (PCI-4)	Marra	Y	Y	Y	Y	Y
N/A	NIEA-OMIDDD Cont 2 (PCI-18/19)	Z Contractors	N	N	N	N	N

Work Currently in Design/Study/Engineering

Description	Design Consultant	Status
NESPS & OMID Maintenance & Repairs	Metco	Engineering/Maintenance Ongoing
Emergency Pumping Plan	ASI/NTH/FKE	Draft Plan to be modified following ITC bypass pumping modifications
Control Structure Upgrades	ASI	Design Complete; On hold for bidding



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



OMID Project Schedule Summary

MID/OMID Construction Schedule

Project	Work Location	Owner	Lead Engineer	Contractor	2026			2027										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	CS-2	CS-3	CS-5	CS-6	CS-6 PS	CS-7	CS-8	CS-9	CS-12	CS-13	CPS	PC663 Gate	
NIEA Rehabilitation (Downstream of NESPS)	PCI-18/19 Spot Repairs and Linings (Contract 2B)	OMID	NTH	Z Contractors															-	N	N	N	N	N	N	N	N	N	-	Y	Partial Flow Control and full diversion planned. VR-15/16 Closure required. PC-663 Gate closure will divert flow to 7 Mile Relief Sewer. Coordination with GLWA and downstream system when flow is diverted to 7 Mile Relief. NESPS stores with Partial and should operate normally to pass DWF rates when P3/4 are isolated. NESPS Gates 3 and 4 not required to be Closed when plugs are in place. Odor Control features have been added to the system. Continued investigation into additional odor control alternatives continue.
Segment 5 Repairs	CS-12	MID	FKE	Ric-Man															-	Y	-	Y	-	Y	Y	-	Y	-	*H*	-	Work currently on HOLD. Work is between CS-4 and CS-3
RAI Repairs	RAI	MID	FKE	Doetsch															-	Y	-	Y	-	Y	Y	-	Y	-	*H*	-	Work currently on HOLD. Work is between CS-12 and CS-2. Con not occur concurrently with NIEA CB Work.
OMID O&M Repairs	TBD	OMID	TBD	TBD																											Upcoming
MID Inspection	15 Mile Interceptor Lining	MID	Fishbeck	Ruby Collins															-	-	-	-	-	-	-	-	-	-	Y	-	Requires CPS to store and dewater flow daily with LOTO
Odor Control	CS-6/CS-12	OMID	FKE	TBD															-	-	-	N	-	-	-	-	N	-	-	-	Project shown for coordination with other projects. No flow control actively required.
NESPS Bar Rack Cleaning	NESPS Wet Well	OMID	Metco	Doetsch															-	Y	Y	Y	-	Y	Y	Y	-	-	-	-	Periodic System Storage for 1 to 2 days for bar rack cleaning and inspection. On-going effort schedule by NESPS Maintenance staff.
CS Gate Maintenance	CS-8 Gate Replacement	OMID	Metco	HESCO																-	N	N	N	N	N	-	N	-			Gate Replacement - Actual time frame yet to be determined, work may be shifted to the larger gate rehab effort. New gate and frame have been procured.
Flow Control Structure Rehabilitation	CS-5, CS-6, CS-7, CS-8	OMID	ASI	TBD															N	N	-	-	-	-	-	N	N	-	N	-	Work will take CS Structures out of Service during Gate and Operator modifications. Project currently on hold.
Flow Control Structure Rehabilitation (MIDDD)	CS-3	MID	ASI	TBD															-	-	-	-	-	-	-	-	-	-	-	-	TDB
COSDS Lining Projects	Upstream Oakland Arm	WRC	FKE	Multiple															-	-	-	-	-	-	-	-	-	-	-	-	Several Upcoming projects that will have intermittent storage and release or by-pass pumping systems. Actions may create more H2S conditions and/or irregular flow variations.
PSPS / COSDS Work (PSPS Shutdown)	PSPS	WRC	n/a	n/a															-	-	-	-	-	-	-	-	-	-	-	-	Diversion to PSPS is 5 to 12 MGD. Scheduled shut down of PSPS for yearly maintenance; no flow diversion to Pontiac WWTP (CRWRRF) during this time. Will significantly impact storage capabilities on the Oakland Arm CS gates. Perry St PS is at reduced capacity due to Construction at the plant.

Monthly FINAL

Table updated for 11/1/2026. Estimates to be updated as necessary.

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

PSPS and ELPS operations can significantly impact storage times upstream of CS-6, 7 & 8 and subsequently downstream control structures. Coordination & alerting for ELPS, PSPS, WRC Meters 1222/1223 & 1000 required.

Estimated Project Window
Flow Control Required
Flow Control May Be Required
Structure Out of Service

Summary of OMID Flow Control Requirements for Ongoing and Future Projects

Agenda Item No. 12

Financial Reports

YTD Trial Balance Fund: 84917 Oakland Macomb InterceptorSeg5 As of Fiscal Period: Month 1, 2027		OMID SEGMENT 5 BOND ISSUE PRJ-13252	OMID NI-EA CONSTRUCTION PRJ-13308	NESPS MECH-ELEC CONSTRUCTION PRJ-13309	YTD Balance
100100	Cash - Operating	3,114,344.89	4,031,374.89	143,794.48	**7,289,514.26**
	ASSETS	**3,114,344.89**	**4,031,374.89**	**143,794.48**	**7,289,514.26**
201210	Vouchers Payable AP Cont	0.00	0.00	(27,875.73)	**(27,875.73)**
211100	Due to Primary Government	0.00	(8,600.41)	(28,085.01)	**(36,685.42)**
	LIABILITIES	**0.00**	**(8,600.41)**	**(55,960.74)**	**(64,561.15)**
	REVENUES	**0.00**	**0.00**	**0.00**	**0.00**
730000	Contractual Services	0.00	0.00	(20,000.00)	**(20,000.00)**
770000	Internal Support Expenditures	0.00	0.00	1,721.30	**1,721.30**
	EXPENSES	**0.00**	**0.00**	**(18,278.70)**	**(18,278.70)**
382100	FB Committed for Capital Proj	(3,114,344.89)	(4,022,774.48)	(69,555.04)	**(7,206,674.41)**
	Fund Balance	**(3,114,344.89)**	**(4,022,774.48)**	**(69,555.04)**	**(7,206,674.41)**
		0.00	**0.00**	**0.00**	**0.00**

Cash as of 10/31/2026 $ 7,289,514.26

Invoices/Reimbursements for NESPS Mech / Electrical Construction on Current Agenda impacting Cash Balance (12,498.10)

Total Net Cash Balance $ 7,277,016.16

OCM Project Work In Progress

Company	Oakland County
Projects and Project Hierarchies	PRJ-13308 OMID NI-EA CONSTRUCTION
Budget Structure	Project Task
Budget Name	
Period	FY2027 - Oct
Project Status for Actuals	
Project Status for Budget	

Project	Final Budget	Actuals		Obligations	Actuals YTD	Total Spend	Actuals LTD	Variance
Project Expenses	28,395,600.00	-	-	-	-	-	24,330,162.63	4,065,437.37
1 > Administration	584,000.00	-	-	-	-	-	191,104.18	392,895.82
1 > Contingency	2,581,000.00	-	-	-	-	-	-	2,581,000.00
1 > Engineering	478,000.00	-	-	-	-	-	323,611.25	154,388.75
1 > Engineering Consultants	4,913,000.00	-	-	-	-	-	5,877,676.59	(964,676.59)
1 > Facility Acquisition	17,983,600.00	-	-	-	-	-	17,400,876.92	582,723.08
1 > Inspection	260,000.00	-	-	-	-	-	-	260,000.00
1 > Legal and Financial	1,259,000.00	-	-	-	-	-	251,349.59	1,007,650.41
1 > Right of Way	265,000.00	-	-	-	-	-	86,378.76	178,621.24
1 > STANDARD	40,000.00	-	-	-	-	-	199,165.34	(159,165.34)
1 > Survey	32,000.00	-	-	-	-	-	-	32,000.00
Project Revenues	-	-	-	-	-	-	28,352,937.11	
RC605572 - Special Assessments Revenue	-	-	-	-	-	-	6,235,012.99	
RC655385 - Income from Investments	-	-	-	-	-	-	146,081.05	
RC697551 - Issuance of Bonds	-	-	-	-	-	-	21,965,099.65	
RC698200 - Insurance Recoveries	-	-	-	-	-	-	6,743.42	
Revenue Over/ (Under) Expenses							**4,022,774.48**	

OCM Project Work In Progress

Company	Oakland County
Projects and Project Hierarchies	PRJ-13309 NESPS MECH-ELEC CONSTRUCTION
Budget Structure	Project Task
Budget Name	
Period	FY2027 - Oct
Project Status for Actuals	
Project Status for Budget	

Project	Final Budget	Actuals	Commitments	Obligations	Actuals YTD	Total Spend	Actuals LTD	Variance
Project Expenses	54,086,000.00	(18,278.70)	-	(27,875.73)	(18,278.70)	(46,154.43)	58,071,539.31	(3,985,539.31)
1 > Administration	620,000.00	521.76	-	-	521.76	521.76	92,135.20	527,864.80
1 > Contingency	4,917,000.00	-	-	-	-	-	-	4,917,000.00
1 > Engineering	446,000.00	1,199.54	-	-	1,199.54	1,199.54	429,477.41	16,522.59
1 > Engineering Consultants	3,987,000.00	(20,000.00)	-	(27,875.73)	(20,000.00)	(47,875.73)	5,616,478.89	(1,629,478.89)
1 > Facility Acquisition	40,857,000.00	-	-	-	-	-	48,854,822.35	(7,997,822.35)
1 > Inspection	285,000.00	-	-	-	-	-	511,764.67	(226,764.67)
1 > Legal and Financial	2,417,000.00	-	-	-	-	-	1,318,766.90	1,098,233.10
1 > Right of Way	393,000.00	-	-	-	-	-	-	393,000.00
1 > STANDARD	130,000.00	-	-	-	-	-	1,245,943.58	(1,115,943.58)
1 > Survey	34,000.00	-	-	-	-	-	2,150.31	31,849.69
Project Revenues	-	-	-	-	-	-	58,159,373.05	
RC605572 - Special Assessments Revenue	-	-	-	-	-	-	12,267,450.70	
RC655385 - Income from Investments	-	-	-	-	-	-	22,090.84	
RC697551 - Issuance of Bonds	-	-	-	-	-	-	41,837,622.01	
RC698200 - Insurance Recoveries	-	-	-	-	-	-	4,032,209.50	
Revenue Over/ (Under) Expenses							**87,833.74**	

OCM Project Work In Progress

Company	Oakland County
Projects and Project Hierarchies	PRJ-13252 OMID Segment 5
Budget Structure	Project Task
Budget Name	
Period	FY2027 - Oct
Project Status for Actuals	
Project Status for Budget	

Project	Actuals MTD		Obligations	Actuals YTD	Total Spend	Actuals LTD	Variance
Project Expenses	-	-	-	-	-	757,136.57	(757,136.57)
1 > Administration	-	-	-	-	-	242,201.57	(242,201.57)
1 > Legal and Financial	-	-	-	-	-	514,935.00	(514,935.00)
Project Revenues	-	-	-	-	-	3,871,481.46	
RC605572 - Special Assessments Revenue	-	-	-	-	-	494,060.05	
RC655077 - Accrued Interest Adjustments	-	-	-	-	-	86,724.04	
RC655385 - Income from Investments	-	-	-	-	-	2,204,610.04	
RC655462 - Increase Market Value	-	-	-	-	-	1,084.24	
RC697219 - Premiums on Bonds Sold	-	-	-	-	-	7,672,724.75	
RC697551 - Issuance of Bonds	-	-	-	-	-	(6,587,721.66)	
Revenue Over/ (Under) Expenses						**3,114,344.89**	

YTD Trial Balance Fund: 84918 NIEA Contract #2 As of Fiscal Period: Month 1, 2027		NIEA Contract #2 Construction PRJ-17408	YTD Balance
100100	Cash - Operating	6,342,999.07	6,342,999.07
143100	PrepaidExpemses	30,562.50	30,562.50
	ASSETS	6,373,561.57	6,373,561.57
201210	Vouchers Payable AP Cont	(110,882.21)	(110,882.21)
211100	Due to Primary Government	(16,056.53)	(16,056.53)
222300	Unearned Revenues	(1,122,347.80)	(1,122,347.80)
	LIABILITIES	(1,249,286.54)	(1,249,286.54)
	REVENUES	0.00	0.00
730000	Contractual Services	(105,359.57)	(105,359.57)
770000	Internal Support Expenditures	4,538.88	4,538.88
	EXPENSES	(100,820.69)	(100,820.69)
382100	FB Committed for Capital Proj	(5,023,454.34)	(5,023,454.34)
	Fund Balance	(5,023,454.34)	(5,023,454.34)
		0.00	0.00

Cash as of 10/31/2026	$	6,342,999.07
Invoices/Reimbursements for Construction PRJ-17408 on Current Agenda impacting Cash Balance		(1,793,434.63)
Total Net Cash Balance	$	4,549,564.44

OCM Project Work In Progress

Company	Oakland County
Projects and Project Hierarchies	PRJ-17408 NI-EA C2 PCI 18&19 Rehab
Budget Structure	Project Task
Budget Name	
Period	FY2027 - Oct
Project Status for Actuals	
Project Status for Budget	

Project	Final Budget	Actuals MTD	Commitments	Obligations YTD	Actuals YTD	Total Spend YTD	Actuals LTD	Variance
Project Expenses	15,600,000.00	(100,820.69)	-	3,499,335.34	(100,820.69)	3,398,514.65	13,532,929.31	2,067,070.69
1 > Administration	95,287.00	10.96	-	-	10.96	10.96	243,047.64	(147,760.64)
1 > Engineering	235,465.00	4,527.92	-	-	4,527.92	4,527.92	103,398.26	132,066.74
1 > Engineering Consultants	2,089,000.00	(177,986.11)	-	628,554.29	(177,986.11)	450,568.18	2,520,800.36	(431,800.36)
1 > Facility Acquisition	12,596,000.00	89,087.50	-	2,870,781.05	89,087.50	2,959,868.55	10,210,987.91	2,385,012.09
1 > Inspection	230,037.00	-	-	-	-	-	-	230,037.00
1 > Legal and Financial	279,000.00	(16,460.96)	-	-	(16,460.96)	(16,460.96)	-	279,000.00
1 > Right of Way	42,000.00	-	-	-	-	-	-	42,000.00
1 > STANDARD	15,796.00	-	-	-	-	-	454,695.14	(438,899.14)
1 > Survey	17,415.00	-	-	-	-	-	-	17,415.00
Project Revenues	-	-	-	-	-	-	18,657,204.34	
RC605572 - Special Assessments Revenue	-	-	-	-	-	-	8,440,095.20	
RC631827 - Reimb General	-	-	-	-	-	-	3,375,000.00	
RC655385 - Income from Investments	-	-	-	-	-	-	935,230.69	
RC697219 - Premiums on Bonds Sold	-	-	-	-	-	-	176,878.45	
RC697551 - Issuance of Bonds	-	-	-	-	-	-	5,730,000.00	
Revenue Over/ (Under) Expenses							**5,124,275.03**	

YTD Trial Balance FND84919 OMIDDD Odor and Corrosion Control As of Fiscal Period: Month 1, 2027		OMID Odor/Corrosion System Construct PRJ-17705	YTD Balance
100100	Cash - Operating	1,632,423.94	**1,632,423.94**
	ASSETS	**1,632,423.94**	**1,632,423.94**
211100	Due to Primary Government	(51,308.53)	**(51,308.53)**
222300	Unearned Revenues	(696,443.14)	**(696,443.14)**
	LIABILITIES	**(747,751.67)**	**(747,751.67)**
	REVENUES	**0.00**	**0.00**
730000	Contractual Services	(47,020.14)	**(47,020.14)**
770000	Internal Support Expenditures	2,273.85	**2,273.85**
	EXPENSES	**(44,746.29)**	**(44,746.29)**
382100	FB Committed for Capital Proj	(839,925.98)	**(839,925.98)**
	Fund Balance	**(839,925.98)**	**(839,925.98)**
		(0.00)	**(0.00)**

Cash as of 10/31/2026	**$**	**1,632,423.94**
Invoices/Reimbursements for Construction PRJ-17705 on Current Agenda impacting Cash Balance		**(32,768.19)**
Total Net Cash Balance	**$**	**1,599,655.75**

OCM Project Work In Progress

Company	Oakland County
Projects and Project Hierarchies	PRJ-17705 OMID Odor/Corrosion System Construct
Budget Structure	Project Task
Budget Name	
Period	FY2027 - Oct
Project Status for Actuals	
Project Status for Budget	

Project	Final Budget	Actuals	Commitments	Obligations	Actuals YTD	Total Spend	Actuals LTD	Variance
Project Expenses	11,400,000.00	(44,746.29)	-	373,613.85	(44,746.29)	328,867.56	10,168,561.11	1,231,438.89
1 > Administration	-	-	-	-	-	-	112,431.68	(112,431.68)
1 > Contingency	747,000.00	-	-	-	-	-	-	747,000.00
1 > Engineering	193,000.00	2,273.85	-	-	2,273.85	2,273.85	141,097.73	51,902.27
1 > Engineering Consultants	2,350,000.00	(47,020.14)	-	-	(47,020.14)	(47,020.14)	1,988,596.89	361,403.11
1 > Facility Acquisition	7,419,000.00	-	-	373,613.85	-	373,613.85	7,665,569.35	(246,569.35)
1 > Inspection	295,000.00	-	-	-	-	-	168,180.50	126,819.50
1 > Legal and Financial	310,000.00	-	-	-	-	-	55,076.15	254,923.85
1 > Right of Way	77,000.00	-	-	-	-	-	34,850.16	42,149.84
1 > STANDARD	4,000.00	-	-	-	-	-	2,758.65	1,241.35
1 > Survey	5,000.00	-	-	-	-	-	-	5,000.00
Project Revenues	-	-	-	-	-	-	11,053,233.38	
RC605572 - Special Assessments Revenue	-	-	-	-	-	-	7,210,562.86	
RC655385 - Income from Investments	-	-	-	-	-	-	499,785.02	
RC697219 - Premiums on Bonds Sold	-	-	-	-	-	-	187,885.50	
RC697551 - Issuance of Bonds	-	-	-	-	-	-	3,155,000.00	
Revenue Over/ (Under) Expenses							**884,672.27**	

Oakland County - Water Resources Commissioner's Office
Fund Equity: Schedule of Reserves and Dedicated Funds
As of Date: October 31, 2026

Fund	Description	Major Maintenance	Emergency Maintenance Reserve	Capital Improvement	Undesignated	Committed for Capital Projects	Total Equity
82912	OMIDD Maintenance Fund	6,602,015.09	3,182,658.17	11,530,511.84	5,872,002.10		27,187,187.20
84917	OMIDD Seg 5						
	- Project 1-3252 Interceptor Seg 5					3,114,344.89	
	- Project 1-3308 NI - EA Construction					4,022,774.48	
	- Project 1-3309 NESPS Construction					87,833.74	7,224,953.11
84918	OMIDDD North Interceptor East Arm – Contract #2						
	- Project: PRJ-17408 OMIDDD NIEA Contract2 Construction					5,124,275.03	5,124,275.03
84919	OMID Odor and Corrosion Control						
	- Project: PRJ-17705 OMID Odor/Corrosion System Construction					884,672.27	884,672.27
Total Equity in Maintenance and Construction Funds							40,421,087.61

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

County of Oakland
Oakland Macomb Interceptor Ch21 Fund
Unaudited Statement of Revenues, Expenses, and Changes in Net Position
For the Twelve Months Ending September 30, 2026
100% of The Year Complete

	2026		Year to Date	
	Amended Budget	Actual	(Unfavorable) Variance	Favorable TYD % of Budget
Operating revenues				
Sewage Disposal Services	$ 84,932,330.00	$ 85,609,861.56	$ 677,531.56	100.80%
Reimburse General	10,642,890.00	113,026.26	(10,529,863.74)	1.06%
Total operating revenue:	$ 106,218,110.00	$ 85,722,887.82	$ (20,495,222.18)	80.70%
Contractual services				
Contracted Services	$ 7,098,370.00	$ 1,726,033.35	$ 5,372,336.65	24.32%
Electrical Service	1,217,710.00	913,983.83	303,726.17	75.06%
Engineering Services-Other	0.00	229,450.18	(229,450.18)	No Budget
Equipment Maintenance	689,500.00	404,765.71	284,734.29	58.70%
Equipment Repair	625,000.00	982,043.81	(357,043.81)	157.13%
Inspection	350.00	0.00	350.00	0.00%
Insurance	1,672,130.00	1,178,937.15	493,192.85	70.51%
Legal Services	29,030.00	308.00	28,722.00	1.06%
Membership Dues	5,930.00	102.81	5,827.19	1.73%
Natural Gas	30,000.00	58,925.12	(28,925.12)	196.42%
Printing	0.00	6,830.72	(6,830.72)	No Budget
Professional Services	0.00	(684.75)	684.75	No Budget
Public Services	137,000.00	167,183.14	(30,183.14)	122.03%
Right of Way	2,700.00	0.00	2,700.00	0.00%
Sewage Disposal Services	77,353,500.00	76,934,400.00	419,100.00	99.46%
Water and Sewage Charges	135,990.00	150,172.68	(14,182.68)	110.43%
Workshops and Meeting	3,430.00	3,915.70	(485.70)	114.16%
Total contractual services	$ 89,000,640.00	$ 82,756,367.45	$ 6,244,272.55	92.98%
Internal services				
Drain Equip Materials	$ 370.00	$ 416.17	$ (46.17)	112.48%
Drain Equip Labor	139,000.00	105,023.77	33,976.23	75.56%
Drain Equipment	8,940.00	2,907.88	6,032.12	32.53%
Info Tech Development	0.00	2,100.00	(2,100.00)	No Budget
Total internal services	$ 148,310.00	$ 110,447.82	$ 37,862.18	74.47%
Total operating expense	$ 89,148,950.00	$ 82,866,815.27	$ 6,282,134.73	92.95%
Operating income (loss)	$ 17,069,160.00	$ 2,856,072.55	$ (14,213,087.45)	16.73%
Nonoperating revenues (expenses)				
Income from investments	$ 530,020.00	$ 1,149,221.42	$ 619,201.42	216.83%
Total nonoperating revenues (expenses)	$ 530,020.00	$ 1,149,221.42	$ 619,201.42	216.83%
Income (loss) before transfer	$ 17,599,180.00	$ 4,005,293.97	$ (13,593,886.03)	216.83%
Transfers in	0.00	0.00	0.00	No Budget
Transfers out	0.00	0.00	0.00	No Budget
Change in net position	$ 17,599,180.00	$ 4,005,293.97	$ (13,593,886.03)	22.76%
Net Position - beginning		22,105,615.59		
Net Position - ending		$ 26,110,909.56		

Please note the following!!
1) Budgeted use of Prior year balance is not reflected on this report.
2) Any changes to the above amounts must be detailed below!!

Additional Items may be shown below. These items were not included in the financial statement shown above. Please review items shown below and make the necessary corrections!! If you feel the statement is in error please contact Dave Nelson to correct.

County of Oakland
OMIDD Maintenance Fund
Unaudited Statement of Net Position
September 30, 2026

ASSETS		
Current assets:		
Cash	$	35,334,513.43
Due from municipalities		5,004,763.75
Prepaid Expenses		292,908.53
Total assets	$	40,632,185.71
LIABILITIES		
Current liabilities:		
Vouchers payable	$	6,798,727.05
Accounts Payable		7,719,549.10
Deposits		3,000.00
Total liabilities	$	14,521,276.15
NET POSITION		
FB Major Maint Reserve		7,046,265.58
FB Emergency Maint Reserve		3,640,991.52
FB Capital Improvement Reserve		13,507,038.18
FB Restricted Programs		1,916,614.28
Total net position	$	26,110,909.56

OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS

OMIDD Meeting Date 11/18/2026

		84917	84917	84918	84919	82912	
		1-3308	1-3309	1-7408	1-7705		
Payable To	Invoice #	Segment 5 NIEA Construction	Segment 5 NESPS Mech / Electric Construction	NIEA Contract #2 Construction	Odor/ Corrosion System Construct	Operations & Maintenance	Total
Oakland County *	WRC Labor/Fringes/Non-direct Labor (9/19/26 - 10/30/26)		2,513.13	7,962.33	3,298.19		13,773.65
Oakland County *	WRC Equipment (9/19/26 - 10/30/26)		58.31	154.08	62.29		274.68
Applied Science Inc.	Invoice # 9862- Job 1815 Transition and Basis of Design 8/30/26-9/26/26		7,664.65				7,664.65
Applied Science Inc.	Invoice # 9882- Job 1815 Transition and Basis of Design 9/27/26 - 10/31/26		4,833.45				4,833.45
Dunbar	Invoice # 10027946 maintenance for 10/8/26					475.00	475.00
HESCO (Hamlett)	Invoice # 2019807-019 WO# 1882					709.12	709.12
Jacobs Consultants, Inc.	Invoice # C6A19900-42 OMIDD Odor & Corrosion Facilities 9/19/26 -10/30/26				32,768.19		32,768.19
Lardner Elevator Company	Invoice # 210776 - Elevator Repair 9/29/26					1,560.00	1,560.00
Macomb County	Invoice # AR26001462 Reimburse 7/1 - 9/30/26					32,985.63	32,985.63
METCO Consulting Engineers	Invoice # 1811-94 10/5/2026 Through 11/01/2026					114,122.18	114,122.18
METCO Consulting Engineers	Invoice # 2510-09 8/3/2026 Through 11/01/2026					23,373.95	23,373.95
NTH Consultants	Invoice # 643345 (D-458 & D-463) Engineering Services 9/26/26 - 10/23/26			75,031.31			75,031.31
NTH Consultants	Invoice # 643344 Maintenance Engineering Services 9/26/26 - 10/23/26					2,771.95	2,771.95
Rotor Electric	Invoice # 13069 Switchgear maintenance and testing 9/28/26					2,992.00	2,992.00
Z Contractors	Construction Estimate # 20 NI-EA contract # 2B			1,718,403.32			1,718,403.32
	Total Invoices/Reimbursements for Approval	0.00	15,069.54	1,801,551.04	36,128.67	178,989.83	2,031,739.08
	* Less WRC Charges already paid from OMI Fund	0.00	(2,571.44)	(8,116.41)	(3,360.48)		(14,048.33)
	Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain Board	0.00	12,498.10	1,793,434.63	32,768.19	178,989.83	2,017,690.75

Agenda Item No. 13

Invoices

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates -								9/19/2026	-	10/30/2026
WOID	**Date Entered**	**Date Worked**	**Name/Description**	**Hours/Units**	**Cost**	**Cost Category**	**Assign Equipment**	**Project**		**Activity**
1287147	10/7/2026	9/21/2026	BROWN, JOEL	0.50	$90.32	REGULAR	WRCCON	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/23/2026	BROWN, JOEL	5.00	$903.15	REGULAR	WRCCON	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/28/2026	BROWN, JOEL	0.50	$90.32	REGULAR	WRCCON	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/30/2026	BROWN, JOEL	0.50	$90.32	REGULAR	WRCCON	PRJ-13309-1-ENGINEERING		
1287147	9/28/2026	9/9/2026	BROWN, JOEL	1.00	$180.63	REGULAR	WRCCON	PRJ-13309-1-ENGINEERING		
1287147	9/28/2026	9/16/2026	BROWN, JOEL	1.00	$180.63	REGULAR	WRCCON	PRJ-13309-1-ENGINEERING		
			BROWN, JOEL Total		$1,535.37					
1287147	9/28/2026	9/11/2026	ROBERTOY, KATY	6.00	$488.88	REGULAR	WRCCON	PRJ-13309-1-ADMINISTRATION		
1287147	9/28/2026	10/7/2026	ROBERTOY, KATY	6.00	$488.88	REGULAR	WRCCON	PRJ-13309-1-ADMINISTRATION		
			ROBERTOY, KATY Total		$977.76					
			Grand Total		$2,513.13					

OMI Segment 5 NESP Mech - Elect Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates -								9/19/2026	-	10/30/2026
WOID	**Date Entered**	**Date Worked**	**Name/Description**	**Hours/Units**	Cost	**Cost Category**	**Assign Equipment**	**Project**		**Activity**
1255122	9/24/2026	9/21/2026	BROWN, JOEL	0.50	$0.20	ASSIGNED	Cell Phone	PRJ-13309-1-ENGINEERING		
1255122	9/24/2026	9/23/2026	BROWN, JOEL	5.00	$2.00	ASSIGNED	Cell Phone	PRJ-13309-1-ENGINEERING		
1255122	9/24/2026	9/28/2026	BROWN, JOEL	0.50	$0.20	ASSIGNED	Cell Phone	PRJ-13309-1-ENGINEERING		
1255122	10/8/2026	9/30/2026	BROWN, JOEL	0.50	$0.20	ASSIGNED	Cell Phone	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/9/2026	BROWN, JOEL	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/16/2026	BROWN, JOEL	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/21/2026	BROWN, JOEL	0.50	$1.17	ASSIGNED	PC/Computer	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/23/2026	BROWN, JOEL	5.00	$11.70	ASSIGNED	PC/Computer	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/28/2026	BROWN, JOEL	0.50	$1.17	ASSIGNED	PC/Computer	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/30/2026	BROWN, JOEL	0.50	$1.17	ASSIGNED	PC/Computer	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/9/2026	BROWN, JOEL	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/16/2026	BROWN, JOEL	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/21/2026	BROWN, JOEL	0.50	$0.13	ASSIGNED	Tablet/iPad	PRJ-13309-1-ENGINEERING		
1287147	10/7/2026	9/23/2026	BROWN, JOEL	5.00	$1.25	ASSIGNED	Tablet/iPad	PRJ-13309-1-ENGINEERING		
1287147	9/28/2026	9/28/2026	BROWN, JOEL	0.50	$0.13	ASSIGNED	Tablet/iPad	PRJ-13309-1-ENGINEERING		
1287147	9/28/2026	9/30/2026	BROWN, JOEL	0.50	$0.13	ASSIGNED	Tablet/iPad	PRJ-13309-1-ENGINEERING		
1287147	9/28/2026	9/9/2026	BROWN, JOEL	1.00	$0.25	ASSIGNED	Tablet/iPad	PRJ-13309-1-ENGINEERING		
1287147	9/28/2026	9/16/2026	BROWN, JOEL	1.00	$0.25	ASSIGNED	Tablet/iPad	PRJ-13309-1-ENGINEERING		
			BROWN, JOEL Total		$25.43					
1255122	10/8/2026	10/7/2026	ROBERTOY, KATY	6.00	$2.40	ASSIGNED	Cell Phone	PRJ-13309-1-ADMINISTRATION		
1255122	10/8/2026	9/11/2026	ROBERTOY, KATY	6.00	$2.40	ASSIGNED	Cell Phone	PRJ-13309-1-ADMINISTRATION		
1287147	10/7/2026	10/7/2026	ROBERTOY, KATY	6.00	$14.04	ASSIGNED	PC/Computer	PRJ-13309-1-ADMINISTRATION		
1287147	10/7/2026	9/11/2026	ROBERTOY, KATY	6.00	$14.04	ASSIGNED	PC/Computer	PRJ-13309-1-ADMINISTRATION		
			ROBERTOY, KATY Total		$32.88					
			Grand Total		$58.31					

OMI Odor & Corrosion Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates -								9/19/2026	-	10/30/2026
WOID	**Date Entered**	**Date Worked**	**Name/Description**	**Hours/Units**	**Cost**	**Cost Category**	**Assign Equipment**	**Project**		**Activity**
1286152	9/28/2026	9/15/2026	BROWN, JOEL	0.50	$90.32	REGULAR	WRCCON	PRJ-17705-1-ENGINEERING		
1286152	10/7/2026	9/22/2026	BROWN, JOEL	0.50	$90.32	REGULAR	WRCCON	PRJ-17705-1-ENGINEERING		
1286152	10/8/2026	9/28/2026	BROWN, JOEL	0.50	$90.32	REGULAR	WRCCON	PRJ-17705-1-ENGINEERING		
1286152	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$180.63	REGULAR	WRCCON	PRJ-17705-1-ENGINEERING		
			BROWN, JOEL Total		$451.59					
1286152	9/24/2026	9/8/2026	COOK, JENNIFER	4.00	$569.32	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	9/24/2026	9/15/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	9/24/2026	9/16/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	9/24/2026	9/18/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/13/2026	9/21/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/13/2026	9/22/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/13/2026	9/25/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/13/2026	9/28/2026	COOK, JENNIFER	2.00	$284.66	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/20/2026	10/5/2026	COOK, JENNIFER	3.00	$426.99	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/20/2026	10/7/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/20/2026	10/9/2026	COOK, JENNIFER	2.00	$284.66	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/20/2026	10/12/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
1286152	10/20/2026	10/13/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17705-1-ENGINEERING		
			COOK, JENNIFER Total		$2,846.60					
			Grand Total		$3,298.19					

OMI Odor & Corrosion Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates -								9/19/2026	-	10/30/2026
WOID	**Date Entered**	**Date Worked**	**Name/Description**	**Hours/Units**	Cost	**Cost Category**	**Assign Equipment**	**Project**		**Activity**
1286152	10/7/2026	9/22/2026	BROWN, JOEL	0.50	$0.20	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/8/2026	9/28/2026	BROWN, JOEL	0.50	$0.20	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	9/28/2026	9/15/2026	BROWN, JOEL	0.50	$0.20	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/7/2026	9/22/2026	BROWN, JOEL	0.50	$1.17	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/8/2026	9/28/2026	BROWN, JOEL	0.50	$1.17	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	9/28/2026	9/15/2026	BROWN, JOEL	0.50	$1.17	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/7/2026	9/22/2026	BROWN, JOEL	0.50	$0.13	ASSIGNED	Tablet/iPad	PRJ-17705-1-		ENGINEERING
1286152	10/8/2026	9/28/2026	BROWN, JOEL	0.50	$0.13	ASSIGNED	Tablet/iPad	PRJ-17705-1-		ENGINEERING
1286152	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$0.25	ASSIGNED	Tablet/iPad	PRJ-17705-1-		ENGINEERING
1286152	9/28/2026	9/15/2026	BROWN, JOEL	0.50	$0.13	ASSIGNED	Tablet/iPad	PRJ-17705-1-		ENGINEERING
			BROWN, JOEL Total		$7.49					
1286152	10/20/2026	10/5/2026	COOK, JENNIFER	3.00	$1.20	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/7/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/9/2026	COOK, JENNIFER	2.00	$0.80	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/12/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/13/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/21/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/22/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/25/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/28/2026	COOK, JENNIFER	2.00	$0.80	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/8/2026	COOK, JENNIFER	4.00	$1.60	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/15/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/16/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/18/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/5/2026	COOK, JENNIFER	3.00	$7.02	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/7/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/9/2026	COOK, JENNIFER	2.00	$4.68	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/12/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/20/2026	10/13/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/21/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/22/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/25/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	10/13/2026	9/28/2026	COOK, JENNIFER	2.00	$4.68	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/8/2026	COOK, JENNIFER	4.00	$9.36	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/15/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/16/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
1286152	9/24/2026	9/18/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17705-1-		ENGINEERING
			COOK, JENNIFER Total		$54.80					
			Grand Total		$62.29					

NI-EA Contract #2 - Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates -								9/19/2026	-	10/30/2026
WOID	**Date Entered**	**Date Worked**	**Name/Description**	**Hours/Units**	**Cost**	**Cost Category**	**Assign Equipment**	**Project**		**Activity**
1342844	9/28/2026	9/9/2026	BROWN, JOEL	0.50	$90.32	REGULAR	WRCCON	PRJ-17408-1-		ENGINEERING
1342844	9/28/2026	9/10/2026	BROWN, JOEL	1.00	$180.63	REGULAR	WRCCON	PRJ-17408-1-		ENGINEERING
1342844	9/28/2026	9/11/2026	BROWN, JOEL	3.50	$632.21	REGULAR	WRCCON	PRJ-17408-1-		ENGINEERING
1342844	10/7/2026	9/28/2026	BROWN, JOEL	2.00	$361.26	REGULAR	WRCCON	PRJ-17408-1-		ENGINEERING
1342844	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$180.63	REGULAR	WRCCON	PRJ-17408-1-		ENGINEERING
			BROWN, JOEL Total		$1,445.05					
1342844	10/20/2026	10/5/2026	COOK, JENNIFER	3.00	$426.99	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/20/2026	10/7/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/20/2026	10/9/2026	COOK, JENNIFER	2.00	$284.66	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/20/2026	10/12/2026	COOK, JENNIFER	4.00	$569.32	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/20/2026	10/13/2026	COOK, JENNIFER	3.00	$426.99	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/20/2026	10/14/2026	COOK, JENNIFER	3.00	$426.99	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/20/2026	10/16/2026	COOK, JENNIFER	4.00	$569.32	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/13/2026	9/21/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/13/2026	9/22/2026	COOK, JENNIFER	1.00	$142.33	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/13/2026	9/25/2026	COOK, JENNIFER	3.00	$426.99	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	10/13/2026	9/28/2026	COOK, JENNIFER	2.00	$284.66	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	9/24/2026	9/9/2026	COOK, JENNIFER	2.50	$355.83	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	9/24/2026	9/14/2026	COOK, JENNIFER	4.00	$569.32	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	9/24/2026	9/15/2026	COOK, JENNIFER	2.00	$284.66	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	9/24/2026	9/16/2026	COOK, JENNIFER	3.00	$426.99	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	9/24/2026	9/17/2026	COOK, JENNIFER	3.00	$426.99	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
1342844	9/24/2026	9/18/2026	COOK, JENNIFER	2.00	$284.66	REGULAR	WRCADM	PRJ-17408-1-		ENGINEERING
			COOK, JENNIFER Total		$6,191.36					
1343168	9/24/2026	9/24/2026	ROBERTOY, KATY	4.00	$325.92	REGULAR	WRCCON	PRJ-17408-1-		ADMINISTRATION
			ROBERTOY, KATY Total		$325.92					
			Grand Total		$7,962.33					

NI-EA Contract #2 - Construction Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates -								9/19/2026	-	10/30/2026
WOID	**Date Entered**	**Date Worked**	**Name/Description**	**Hours/Units**	Cost	**Cost Category**	**Assign Equipment**	**Project**		**Activity**
1342844	9/28/2026	9/9/2026	BROWN, JOEL	0.50	$0.20	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/9/2026	BROWN, JOEL	0.50	$1.17	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/9/2026	BROWN, JOEL	0.50	$0.13	ASSIGNED	Tablet/iPad	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/10/2026	BROWN, JOEL	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/10/2026	BROWN, JOEL	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/10/2026	BROWN, JOEL	1.00	$0.25	ASSIGNED	Tablet/iPad	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/11/2026	BROWN, JOEL	3.50	$1.40	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/11/2026	BROWN, JOEL	3.50	$8.19	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/28/2026	9/11/2026	BROWN, JOEL	3.50	$0.88	ASSIGNED	Tablet/iPad	PRJ-17408-1		ENGINEERING
1342844	10/7/2026	9/28/2026	BROWN, JOEL	2.00	$0.80	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/7/2026	9/28/2026	BROWN, JOEL	2.00	$4.68	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/7/2026	9/28/2026	BROWN, JOEL	2.00	$0.50	ASSIGNED	Tablet/iPad	PRJ-17408-1		ENGINEERING
1342844	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/8/2026	9/30/2026	BROWN, JOEL	1.00	$0.25	ASSIGNED	Tablet/iPad	PRJ-17408-1		ENGINEERING
			BROWN, JOEL Total		$23.93					
1342844	9/24/2026	9/9/2026	COOK, JENNIFER	2.50	$1.00	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/9/2026	COOK, JENNIFER	2.50	$5.85	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/14/2026	COOK, JENNIFER	4.00	$1.60	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/14/2026	COOK, JENNIFER	4.00	$9.36	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/15/2026	COOK, JENNIFER	2.00	$0.80	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/15/2026	COOK, JENNIFER	2.00	$4.68	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/16/2026	COOK, JENNIFER	3.00	$1.20	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/16/2026	COOK, JENNIFER	3.00	$7.02	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/17/2026	COOK, JENNIFER	3.00	$1.20	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/17/2026	COOK, JENNIFER	3.00	$7.02	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/18/2026	COOK, JENNIFER	2.00	$0.80	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	9/24/2026	9/18/2026	COOK, JENNIFER	2.00	$4.68	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/21/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/21/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/22/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/22/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/25/2026	COOK, JENNIFER	3.00	$1.20	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/25/2026	COOK, JENNIFER	3.00	$7.02	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/28/2026	COOK, JENNIFER	2.00	$0.80	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/13/2026	9/28/2026	COOK, JENNIFER	2.00	$4.68	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/5/2026	COOK, JENNIFER	3.00	$1.20	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/5/2026	COOK, JENNIFER	3.00	$7.02	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/7/2026	COOK, JENNIFER	1.00	$0.40	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/7/2026	COOK, JENNIFER	1.00	$2.34	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/9/2026	COOK, JENNIFER	2.00	$0.80	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/9/2026	COOK, JENNIFER	2.00	$4.68	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/12/2026	COOK, JENNIFER	4.00	$1.60	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/12/2026	COOK, JENNIFER	4.00	$9.36	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/13/2026	COOK, JENNIFER	3.00	$1.20	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/13/2026	COOK, JENNIFER	3.00	$7.02	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/14/2026	COOK, JENNIFER	3.00	$1.20	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/14/2026	COOK, JENNIFER	3.00	$7.02	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/16/2026	COOK, JENNIFER	4.00	$1.60	ASSIGNED	Cell Phone	PRJ-17408-1		ENGINEERING
1342844	10/20/2026	10/16/2026	COOK, JENNIFER	4.00	$9.36	ASSIGNED	PC/Computer	PRJ-17408-1		ENGINEERING
			COOK, JENNIFER Total		$119.19					
1343168	9/24/2026	9/24/2026	ROBERTOY, KATY	4.00	$1.60	ASSIGNED	Cell Phone	PRJ-17408-1		ADMINISTRATION
1343168	9/24/2026	9/24/2026	ROBERTOY, KATY	4.00	$9.36	ASSIGNED	PC/Computer	PRJ-17408-1		ADMINISTRATION
			ROBERTOY, KATY Total		$10.96					
			Grand Total		$154.08					

INVOICE

INVOICE #:	**10027946**
INVOICE DATE:	10/13/26
CUSTOMER NUMBER:	MET0004
CUSTOMER PO:	
INVOICE TOTAL:	**$475.00**
DUE DATE:	**11/12/26**
TERMS:	**NET 30**

OMID DRAINAGE DISTRICT
1 PUBLIC WORKS DR
WATERFORD, MI 48328

For work performed at:
NORTH EAST SEWAGE STA E STATE FAIR DETROIT
11001 E. STATE FAIR,
DETROIT, MI 48234

Service Order Description **Service Order #:** 10027045

ELECTRICAL ROOM A/C NOT OPERATING CORRECTLY

Comments

FOUND UNITS RUNNING UPON ARRIVAL. CHECKED ALARM HISTORY FOR BOTH UNITS. NO CURRENT ALARMS FOUND. CHECK ALL WIRING. CYCLED BOTHS UNITS AND OBSERVED OPERATION.

Labor

SCOTT K LOCKENOUR	10/08/26	3.00	REG	130.00	390.00
				Labor Total:	**390.00**

Other

TRUCK CHARGE		85.00
	Other Costs Total:	**85.00**

AMV 2026/10/26

Dunbar - NESPS						
PO85950	82912	6010101	149090	730660	11503	Ch. 21

SUBTOTAL:	475.00	TAX:	0.00	**TOTAL:**	**475.00**

REMIT TO: DUNBAR MECHANICAL INC P.O. BOX 352350 TOLEDO, OH 43635-2350

WE ACCEPT VISA & MASTERCARD, SUBJECT TO A 3% PROCESSING FEE / INVOICES PAST 30 DAYS ARE SUBJECT TO 18% ANNUAL PERCENTAGE RATE PHYSICAL ADDRESS: 2806 N. REYNOLDS ROAD, TOLEDO, OHIO 43615

ALL MATERIAL, PARTS AND EQUIPMENT CARRY ONLY THE ORIGINAL MANUFACTURERS WARRANTY. DUNBAR MAKES NO INDEPENDENT WARRANTY WITH RESPECT TO SUCH ITEMS WHATSOEVER. DUNBAR WARRANTS THAT ITS WORKMANSHIP WILL BE FREE FROM DEFECTS FOR A PERIOD OF 30#DAYS FROM THE DATE PERFORMED, BUT SUCH WARRNTY IS VOID IN THE EVENT OF MISUSE, ACCIDENT OR ANY OCCURRENCE INCONSISTENT WITH NORMAL USE. DUNBAR MAKES NO OTHER EXPRESS WARRANTY AND NO IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. IN NO EVENT WILL DUNBAR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

HESCO
Knowledgeable • Professional • Attentive • Likeable
29770 Hudson Drive Novi, MI 48377
Phone: (586) 978-7200
hesco-mi.com

Invoice No. 2019807-019

Date: 10/15/2026

Billed To: OMID Drainage District
1 Public Works Drive
tmoore@metcoservices.com
Waterford MI 48328

Client ID: 669
Contract ID: WDCON11045
HESCO Project: 2019807S OMID Flow Control Structures

Contact: Terry Moore **P.O.#** WO #1882 **Salesperson:** Kevin Livingston **Due Date:** 11/14/2026

Description	Unit	Quantity	Price	Amount
WO #1882 NESPS Oil Storage Rando HD22 Hydraulic Oil 25 gallons cost: $616.63 + 15% additional	LSUM	1.00	709.12	709.12

Notes:

A M V 2026/10/20

HESCO - OMID					
82912	6010101	149130	730660	11045	Ch. 21

ACH PAYMENTS:
HESCO GROUP LLC

Please note attachments for change in bank details and W-9.

ACH/EFT Remittance:
AR@hesco-mi.com

Remittance Checks To:
HESCO Group LLC
29770 Hudson Drive
Novi, MI 48377

Credit Card Payment:
Please call Receivables 1-586-978-7200 ext 101

A Service Charge of 4% will be applied to all credit card purchases.

Non-Taxable Amount:	0.00
Taxable Amount:	709.12
Sales Tax:	0.00
Total Invoice	709.12
Retention:	0.00
Payments/Credits:	0.00
Amount Due	**709.12**

LARDNER ELEVATOR

729 Meldrum, Detroit, MI 48207
Phone: (313) 568-1600 Fax: (313) 568-0488

Pay invoices online at www.lardnerelevator.com

INVOICE

Invoice #
210776

Bill To:

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

Account: Northeast Pump Station
11001 E. State Fair
Detroit, MI 48234

Account #: 00-6642-2

Date	Oct 09,2026	**Terms**	Net 30 Days	**Route**	Detroit Route	**Job #**	4912
Inv #	210776	**PO #**	WO 1883	**Territory**	LECO	**Type**	Repair

Quantity	Description	Taxable	Measure	Price	Amount
2.50	Mechanic R/T - #198	No	Each	298.00	$745.00
2.50	Mechanic R/T - #286	No	Each	298.00	$745.00
1.00	shop materials	No	Each	48.00	$48.00
20.00	Mileage	No	Each	1.10	$22.00

9/29/2026 TT# 219920 & 219921 E# 8943
Elevator stopping above bottom floor, found keepers froze and contacts in lock not making. Lubed keepers, cleaned and adjusted contacts. Checked operation and returned to service.
Recommendation: Resend quote for cable lubricators.

Taxable	$0.00
Non-Taxable	$1,560.00
Sub-Total	$1,560.00
Sales Tax	$0.00
TOTAL	$1,560.00

Rev. 02/16/2024

PLEASE DETACH THIS PORTION AND RETURN WITH PAYMENT

Account # 00-6642-2
Northeast Pump Station

Invoice # 210776

Amount $ 1,560.00

Paid $

Lardner Elevator Company
729 Meldrum
Detroit, MI 48207

2026/10/27

Lardner - NESPS					
82912	6010101	149090	730660	10510	Ch. 21

METCO CONSULTING ENGINEERS

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

INVOICE NO. 1811-94 DATE: November 2, 2026

METCO PROJECT NO. 1811 INVOICE PERIOD: 10/5 thru 11/1/2026

Contract ID 00000000000000000000008448

Vendor ID 0000020486

TO: OMIDD
Water Resources Commissioner
One Public Works Drive
Waterford, MI 48328

Attn: Joel Brown, P.E.
Chief Engineer-Construction Projects Unit

TITLE: OMIDD & NESPS Operation and Maintenance

* Contractual Fees	Contract Amount	Engineering Work Order No. 2	Engineering Work Order No. 3	Engineering Work Order No. 4	Engineering Work Order No. 5	New Contract Amount	Amount Earned	Previous Invoices	Cumulative Total	Funds Remaining
Transition Plan	$ 100,913.36	$ -				$ 100,913.36	$ -	$ 100,913.36	$ 100,913.36	$ -
3.1-3.4A-3.4B Operational Plan - Monthly Meetings-2021	$ 262,620.00	$ 211,858.00				$ 474,478.00	$ -	$ 474,478.00	$ 474,478.00	$ -
3.1-3.4A-3.4B Operational Plan - Monthly Meetings-2022	$ -	$ 353,936.00				$ 353,936.00	$ -	$ 353,936.00	$ 353,936.00	$ -
3.1-3.4A-3.4B Operational Plan - Monthly Meetings-2023	$ -	$ 318,436.00				$ 318,436.00	$ -	$ 318,436.00	$ 318,436.00	$ -
3.3 Maintenance & Asset Management	$ 78,906.64	$ -				$ 78,906.64	$ -	$ 162,073.04	$ 162,073.04	$ -
4.0 Operational Plan - Maintenance - Year 2	$ 293,460.00	$ -				$ 293,460.00	$ -	$ 316,576.41	$ 316,576.41	$ -
Maintenance - 2021	$ 293,460.00	$ 263,044.80	$ 286,680.00			$ 843,184.80	$ -	$ 843,184.80	$ 843,184.80	$ -
Maintenance - 2022	$ -	$ 464,612.00	$ 126,040.00			$ 590,652.00	$ -	$ 590,652.00	$ 590,652.00	$ -
Maintenance - 2023	$ -	$ 323,112.80	$ 243,884.60			$ 566,997.40	$ -	$ 566,997.40	$ 566,997.40	$ -
Miantenance - 2024	$ -	$ -		$ 929,278.12		$ 929,278.12	$ -	$ 929,278.12	$ 929,278.12	$ -
Maintenance - 2025-2026	$ -	$ -		$ 750,165.84	$ 996,614.52	$ 1,746,780.36	$ -	$ 1,746,780.36	$ 1,746,780.36	$ -
Maintenance - 2027					$ 767,348.20	$ 767,348.20	$ 102,080.47	$ 135,403.17	$ 237,483.64	$ 529,864.56
Maintenance - 2028					$ 782,147.80	$ 782,147.80		$ -	$ -	$ 782,147.80
6.0 NEXGEN Asset Management Implementation Services	$ 218,800.00	$ -	$ 295,628.60			$ 514,428.60	$ -	$ 514,428.60	$ 514,428.60	$ -
12.0 As-Needed Services	$ 205,000.00	$ -			$ 300,000.00	$ 505,000.00	$ 12,041.71	$ 367,541.43	$ 379,583.14	$ 125,416.86
TOTAL	$ 1,453,160.00	$ 1,934,999.60	$ 952,233.20	$ 1,679,443.96	$ 2,846,110.52	$ 8,865,947.28	$ 114,122.18	$ 7,420,678.69	$ 7,534,800.87	$ 1,437,429.22

METCO CONSULTING ENGINEERS

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

INVOICE NO. 2510-09 DATE: November 3, 2026

METCO PROJECT NO. 2510 INVOICE PERIOD: 08/03 thru 11/01/2026

Contract ID WDCON8448

Vendor ID 0000020486 PO00103099-6010101-82912-149667-730639-18113-ENGCON-8448-Ch.21

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

TITLE: NESPS Pump 2 VFD Replacement

Task 1 - Design Phase

Name	Title	Hrs.	Rate/Hr.	Amount
Rajaram Vijayendran, PE	Principal Engineer	24.0	$ 261.00	$ 6,264.00
Daniel Martel, RA	Sr. Project Architect	46.0	$ 220.00	$ 10,120.00
Pulanith Egodahewa	Sr. Project Engineer	4.0	$ 153.70	$ 614.80
Joshua Gabriel	Project Engineer	8.0	$ 125.50	$ 1,004.00
Steven Scheuer	Staff Engineer	44.5	$ 120.70	$ 5,371.15
Sweta Soni	Designer/Drafter	0.0	$ 113.00	$ -
Xavier Hale	Designer/Drafter	0.0	$ 113.00	$ -

TOTAL AMOUNT DUE THIS INVOICE : $ 23,373.95

NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

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

Invoice # : 643344
Project : 61210495
Invoice Group :
Invoice Date : 11/4/2026

Attention: Joel Brown, P.E.

For Professional Services Rendered from **9/26/2026 - 10/23/2026**

Additional OMID NESPS Maintenance Engineering Services

Task 01	**NESPS Health and Safety Audit**	**$8,651.75**
Task 02	**Control Structure 6 (CS-6) Emergency Bypass System Design**	**$85,450.46**
Task 03	**Wet Wall Screen Cleaning Equipment**	**$7,366.85**
Task 04	**Control Structure Gate Inspection**	**$9,747.94**

Preliminary Budget Amount		**$111,217.00**
Percent Complete:		95.19%

Analysis of Costs		**This Invoice**	**Cumulative**
Direct Salaries		$ 856.57	$ 23,866.74
Overhead %	188.00	1,610.35	44,869.47
Total Regular Labor Expense		2,466.92	68,736.21
Total Direct Labor		**2,466.92**	68,736.21
Profit / Fixed Fee %	12.00	**296.03**	8,248.34
Direct Expenses Charge		8.57	592.17
Expense Multiplier %	5.00	0.43	29.62
Direct Subcontractor Charge		0.00	26,662.90
Subcontractor/Subconsultant Multiplier %	6.00	0.00	1,599.78
Total Other Direct Charges Reimbursables		**9.00**	**28,884.47**
Total Costs:		**2,771.95**	**105,869.02**
Total Due This Invoice		**$ 2,771.95**	**$ 105,869.02**

ROTOR ELECTRIC CO.
OF MICHIGAN. LLC

ROTOR ELECTRIC CO.
9522 Grinnell St., Detroit, MI 48213
(313) 891-0331/FAX (313) 891-0511
"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

OMIDD
1 Public Works Drive
Waterford, MI 48328

Customer PO Number
GBP 19-2172

Job Number	Contract Number	Date Performed	Application	
			Date	Number
719707	0	8/18/2026	9/28/2026	13069

Joel Brown

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Completed & Stored	Balance To Finish	Current Retainage
001	Switchgear Maintenance and Testing	$2,992.00	-	$2,992.00	$2,992.00	-	-
	Totals:	**$2,992.00**		**$2,992.00**	**$2,992.00**		
	Less Retained:			-			
	Invoice Total:			**$2,992.00**			

2026/10/09

AS NEEDED ELECTRICAL AND ENGINEERING SUPP
SEE ATTACHED INVOICE SUMMARY AND FIELD RE
WO 1852

Rotor Electric - OMID

82912	6010101	149130	730660	8629	Ch.21

ALL CREDIT CARD PAYMENTS WILL INCUR A 2.5% SURCHARGE FEE ($3,066.80)

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."

Applied Science, Inc.
21455 Melrose Ave. Bldg R Suite 12 Southfield, MI 48075
Phone: (313) 567-3990
www.asi-eng.com

10/7/2026

Project Invoice #88 (ASI Inv. #9862)
WRC Coding String: 84917-6010101-149015-730639-PRJ13309-ENGCON-8420-Ch.21

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

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

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

Task No.	Task Description	Total This Invoice
1	**Transition & Basis of Design**	
	Total:	$ -
	Subconsultants:	
	ASI Markup 5%:	$ -
	Total:	**$ -**

Task No.	Task Description	Total This Invoice
2	**Design Services for Pump & Electrical Upgrades**	
	Total:	$ -
	Subconsultants:	
	ASI Markup 5%:	$ -
	Total Due This Invoice:	**$ -**

Task No.	Task Description	Total This Invoice
3	**Additional Special Services**	
	Total:	**$ -**
	Subconsultants:	
	ASI Markup 5%:	$ -
	Total Due This Invoice:	**$ -**

Task No.	Task Description	Total This Invoice
5	**Construction Services**	
	Total:	$ 2,100.00
	Subconsultants:	
	NTH Consultants	$ 3,763.47
	Metco Services	$ 1,536.20
	FK Engineering:	$ -
	ASI Markup 5%:	$ 264.98
	Total Due This Invoice:	**$ 7,664.65**

Task No.	Task Description	Total This Invoice
6	**Control Structure Rehab**	
	Total:	$ -
	Subconsultants:	
	NTH Consultants	$ -
	ASI Markup 5%:	$ -
	Direct Expenses:	$ -
	Total Due This Invoice:	**$ -**

Summary		
	Total Due This Invoice Tasks #1-6:	**$ 7,664.65**
	Amount Invoiced to Date Tasks #1-6:	$ 6,611,123.03
	Total Due This Invoice MCC Incident (separate invoice):	**$ -**
	Amount Invoiced to date for MCC Incident (separate invoice):	$ 68,336.23
	Total Due This Invoice Pump Issues (separate invoice):	**$ -**
	Amount Invoiced to date for Pump Issues (separate invoice):	$ 33,824.00
	Total Invoiced To-Date:	$ 6,713,283.26
	Original Contract Task Total:	$ 4,198,380.00
	Additional Budget-Task 5:	$ 284,076.60
	Additional Budget-Task 5a:	$ 1,513,301.00
	Additional Budget-Task 5b:	$ 510,144.00
	Additional Budget-Task 6:	$ 220,326.00
	Current Contract Task Total:	$ 6,726,227.60
	Amount Remaining:	$ 12,944.34

Applied Science, Inc.
21455 Melrose Ave. Bldg R Suite 12 Southfield, MI 48075
Phone: (313) 567-3990
www.asi-eng.com

10/31/2026

Project Invoice #89 (ASI Inv. #9882)
WRC Coding String: 84917-6010101-149015-730639-PRJ13309-ENGCON-8420-Ch.21

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

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

Invoice Period: 9/27/26 - 10/31/26

Task No.	Task Description	Total This Invoice
1	**Transition & Basis of Design**	
	Total:	$ -
	Subconsultants:	
	ASI Markup 5%:	$ -
	Total:	**$ -**

Task No.	Task Description	Total This Invoice
2	**Design Services for Pump & Electrical Upgrades**	
	Total:	$ -
	Subconsultants:	
	ASI Markup 5%:	$ -
	Total Due This Invoice:	**$ -**

Task No.	Task Description	Total This Invoice
3	**Additional Special Services**	
	Total:	**$ -**
	Subconsultants:	
	ASI Markup 5%:	$ -
	Total Due This Invoice:	**$ -**

Task No.	Task Description	Total This Invoice
5	**Construction Services**	
	Total:	$ 1,400.00
	Subconsultants:	
	NTH Consultants	$ 3,269.95
	Metco Services	$ -
	FK Engineering:	$ -
	ASI Markup 5%:	$ 163.50
	Total Due This Invoice:	**$ 4,833.45**

Task No.	Task Description	Total This Invoice
6	**Control Structure Rehab**	
	Total:	$ -
	Subconsultants:	
	NTH Consultants	$ -
	ASI Markup 5%:	$ -
	Direct Expenses:	$ -
	Total Due This Invoice:	**$ -**

Summary

Total Due This Invoice Tasks #1-6:	**$ 4,833.45**
Amount Invoiced to Date Tasks #1-6:	$ 6,615,956.48
Total Due This Invoice MCC Incident (separate invoice):	**$ -**
Amount Invoiced to date for MCC Incident (separate invoice):	$ 68,336.23
Total Due This Invoice Pump Issues (separate invoice):	**$ -**
Amount Invoiced to date for Pump Issues (separate invoice):	$ 33,824.00
Total Invoiced To-Date:	$ 6,718,116.71
Original Contract Task Total:	$ 4,198,380.00
Additional Budget-Task 5:	$ 284,076.60
Additional Budget-Task 5a:	$ 1,513,301.00
Additional Budget-Task 5b:	$ 510,144.00
Additional Budget-Task 6:	$ 220,326.00
Current Contract Task Total:	$ 6,726,227.60
Amount Remaining:	$ 8,110.89

INVOICE

Jacobs

Jacobs Consultants, Inc.

Invoice No.: C6A19900-42
Invoice Date: 11/6/2026
Jacobs Project No.: C6A19900
Services From: 9/19/2026
Services Through: 10/30/2026

Oakland-Macomb Interceptor Drain Drainage District
c/o Oakland County Water Resources Commissioner's Office
One Public Works Drive
Project Manager: Brian McGannon, P.E.
Waterford, Michigan 48328

Attn.: Ms. Jen Cook, P.E.
Project Description: Odor and Corrosion Control Systems within the OMID

Task Number	Task Description	Task Budget	Previously Invoiced	Current Invoice	Project to Date	Remaining Budget
1	Additional Investigation/Modeling	$226,151.90	$225,936.71	$0.00	$225,936.71	$215.19
2	Basis of Design	$122,605.02	$122,303.64	$0.00	$122,303.64	$301.38
3	ST-S-3 Vapor-Phase Treatment System - Subtask 3.1 - Design	$276,371.00	$276,367.83	$0.00	$276,367.83	$3.17
	ST-S-3 Vapor-Phase Treatment System - Subtask 3.2 - Bidding	$17,154.74	$17,150.52	$0.00	$17,150.52	$4.22
4	CS-6 Pump Station Vapor-Phase System - Subtask 4.1 - Design	$96,755.18	$96,755.18	$0.00	$96,755.18	$0.00
4	CS-6 Pump Station - Vapor-Phase System Subtask 4.2 - Bidding	$15,612.91	$15,604.83	$0.00	$15,604.83	$8.08
5	CS-8 and ST-S-1 Local Odor Control - Subtask 5.1 - Design	$80,199.91	$80,194.04	$0.00	$80,194.04	$5.87
	CS-8 and ST-S-1 Local Odor Control - Subtask 5.2 - Bidding	$12,829.09	$12,784.70	$0.00	$12,784.70	$44.38
6	Design Emergency Relief Valves for CS-9 High Pressures	$21,081.00	$21,071.61	$0.00	$21,071.61	$9.39
7	Construction Ventilation Coordination	$11,194.00	$11,117.15	$0.00	$11,117.15	$76.85
8	OMIDDD Progress Meeting Correction	$32,868.00	$32,865.66	$0.00	$32,865.66	$2.34
9	Monthly Design Coordination Meetings Correction	$46,767.00	$46,735.41	$0.00	$46,735.41	$31.59
10	Construction Administration	$860,372.00	$855,077.68	($17,705.73)	$837,371.95	$23,000.05
11	Resident Project Engineer	$170,948.00	$90,172.49	$21,637.88	$111,810.37	$59,137.63
12	Post-Construction Services	$144,988.00	$39,343.30	$20,383.33	$59,726.63	$85,261.37
10a	Reimbursement of Permitting Fees	$11,943.00	$11,673.12	$0.00	$11,673.12	$269.88
13	Review Existing Available Information	$4,425.00	$4,423.84	$0.00	$4,423.84	$1.16
14	Conduct Site Investigation at CS-9 and Adjacent Neighborhood	$13,450.00	$13,449.44	$0.00	$13,449.44	$0.56
15	Collect Additional OMID H2S and Air Pressure Data	$0.00	$0.00	$0.00	$0.00	$0.00
16	Determine Approximate Sizing and Prepare Conceptual Layout at CS-9	$0.00	$0.00	$0.00	$0.00	$0.00
17	Collect Additional OMID CS-5 and CS-9 H2S and Air Pressure Data	$24,884.00	$19,225.27	$0.00	$19,225.27	$5,658.73
18	Conduct Site Investigation and Collect Additional H2S and Air Pressure Data within the NI-EA Near Meldrum and Mt. Elliott	$22,857.00	$0.00	$0.00	$0.00	$22,857.00
19	Confirm NESPS Biotrickling Filter Zone of Influence	$0.00	$0.00	$0.00	$0.00	$0.00
20	Verify Sizing and Prepare Plan Sketch of Active Odor/Corrosion Control System near CS-6 Site	$351.29	$351.29	$0.00	$351.29	$0.00
21	Material Testing Allowance	$25,000.00	$22,258.55	$0.00	$22,258.55	$2,741.45
22	CS-6 Odor Study and Conceptual Design	$136,353.82	$0.00	$8,452.71	$8,452.71	$127,901.11
	Total	$2,375,161.86	$2,014,862.26	$32,768.19	$2,047,630.45	$327,531.41

Previously Invoiced:	$2,014,862.26
Total Due This Invoice:	$32,768.19
Total Invoiced To Date:	$2,047,630.45
Total Budget:	$2,375,161.86
Remaining Budget:	$327,531.41

Outstanding Invoices					
Date	Invoice No.	Invoiced Amount	Paid Date	Paid Amount	Amount Outstanding
9/28/2026	C6A19900-41	$26,266.39			$26,266.39

Signed:

Brian McGannon, P.E.
Project Manager

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

For OCWRC only
84919-6010101-49015-730639-PRJ17705-ENGCON-9788-Ch.21

NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

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

Invoice # : 643345
Project : 23001693
Invoice Group : **
Invoice Date : 11/4/2026

Attention: Jen Cook, P.E.

For Professional Services Rendered from **9/26/2026 - 10/23/2026**

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

Task 01 **Contract 2 CCA Services** **$2,826,169.00**
Preliminary Budget Amount **$2,826,169.00**
Percent Complete: 89.58%

Analysis of Costs		**This Invoice**	**Cumulative**
Direct Salaries		18,816.68	$ 548,538.48
Overhead %	188.00	35,375.36	1,031,252.31
Total Regular Labor Expense		54,192.04	1,579,790.80
Total Direct Labor		**54,192.04**	1,579,790.80
Profit / Fixed Fee %	12.00	**6,503.04**	189,574.89
Direct Expenses Charge		1,271.48	108,667.81
Expense Multiplier %	5.00	63.57	5,433.30
Direct Subcontractor Charge		12,265.28	611,542.23
Subcontractor/Subconsultant Multiplier %	6.00	735.91	36,692.60
Total Other Direct Charges Reimbursables		**14,336.24**	**762,335.95**
Total Costs:		**75,031.31**	**2,531,701.62**
Total Due This Invoice		**$ 75,031.31**	**$ 2,531,701.62**

Macomb County Public Works
21777 Dunham Rd
Clinton TWP, MI 48036

mcpwo.finance@macombgov.org
https://www.macombgov.org
(586) 469-5325

INVOICE

Date	Invoice Number
09/30/2026	AR26001462

Payment Terms	Due Date
Immediate	09/30/2026

82912-6010101-155020-731521

Bill To:

COUNTY OF OAKLAND
OAKLAND CO TREAS-CASH ACCT BLDG 12E
1200 N TELEGRAPH RD
PONTIAC, MI 48341
United States of America

Remit To:

Macomb County Public Works
Attn: Accounts Receivable
21777 Dunham Rd
Clinton TWP, MI 48036
United States of America
(586) 469-5325

Purchase Order Number	From Date	To Date	Customer ID
	07/01/2026	09/30/2026	C000024

Quantity	Item Description	Price Each	Amount
1	OMID Personnel Reimbursement 07/01/2026 - 09/30/2026	9,393.17	9,393.17
1	SCADA Maintenance 07/01/2026 - 09/30/2026	20,067.48	20,067.48
1	OMID Utility Reimbursement 07/01/2026 - 09/30/2026	3,524.98	3,524.98

Net Amount:	**32,985.63**
Tax	**0.00**
Total Invoice Amount	**USD 32,985.63**

Agenda Item No. 14

Other Business

Agenda Item No. 15

Adjourn