

AGENDA

Oakland-Macomb Interceptor Drain Drainage Board Macomb and Oakland Counties

February 19, 2020 – 11:30 a.m.

Office of the Oakland County Water Resources Commissioner
One Public Works, Building 95 West
Waterford, Michigan

1. Call meeting to order

Board Members:

Michael Gregg, Chair, Michigan Department of Agriculture and Rural Development

Candice Miller, Macomb County Public Works Commissioner

Jim Nash, Oakland County Water Resources Commissioner

2. Motion to approve the meeting agenda for February 19, 2020
3. Motion to approve the Drainage District Board Meeting Minutes from January 15, 2020
4. Public Comment
5. Present Executive Summary regarding OMID Corrosion Control Study (Jacobs)
6. Motion to approve the following Engineering Work Order:
NTH Additional Design and CCA Services for the New Hydraulic Control Gate for CS-9 (Bantios)
7. Motion to approve the following Construction Estimate:
CSM Mechanical, LLC, Regular Construction Estimate No. Six
8. Report/Update – Status of OMI Project, Segments 1 through 4, NESPS
9. Financial Reports – General Financial Report and Status of State Revolving Fund Financing and Other Financing
10. Motion to approve the following Invoices:
 - a) Reimbursement of Oakland County WRC-Incurred Expenses and Costs
 - 1) Labor/Fringes/Non-Direct Labor Factor

• Segment 4	\$	\$5,760.31
• Segment 4 Odor Corrosion Study	\$	20,353.61
• Segment 4 Mileage	\$	1,279.33
 - 2) Equipment Charges

• Segment 4	\$	600.00
• Segment 4 Odor Corrosion Study	\$	2,247.36
 - 3) Reimbursement of Drain Revolving Fund \$ | 345.66 |
 - b) Applied Science, Inc.

Invoice No. 7521	O&M	\$	112,983.53
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c)	Bioair		
	Invoice No. 1-20004	Seg. 4	\$ 79,615.00
d)	CDM Smith		
	Invoice No. 90092080	O&M	\$ 24,011.81
e)	Ch2m		
	Invoice No. 13	Seg. 4	\$ 143,526.04
f)	CSM Mechanical, LLC		
	1) Invoice No. OMIDD003	O&M	\$ 491.76
	2) Invoice No. OMIDD004	O&M	\$ 278.40
	3) Invoice No. OMIDD005	O&M	\$ 926.38
	4) Invoice No. OMIDD006	O&M	\$ 657.52
	5) Invoice No. OMIDD008	O&M	\$ 2,439.00
g)	D'Angelo Brothers Inc.		
	Invoice No. 6457-WRCOMID	O&M	\$ 4,996.70
h)	Dickinson Wright		
	1) Invoice No. 1439744	O&M	\$ 35.00
	2) Invoice No. 1447211	O&M	\$ 560.00
i)	Jacobs		
	1) Invoice No. 697317CH016	Seg. 1	\$ 27,522.34
	2) Invoice No. 697317CH017	Seg. 1	\$ 13,617.64
j)	Kennedy Industries		
	1) Invoice No. 614099	O&M	\$ 704.00
	2) Invoice No. 615975	O&M	\$ 3,085.00
	3) Invoice No. 615977	O&M	\$ 1,276.00
k)	Konecranes		
	Invoice No. 154205346	O&M	\$ 31,250.00
l)	Meadowbrook Insurance Agency		
	1) Excess Liability 2 nd Layer Renewal		
	Invoice No. 3743	O&M	\$ 32,640.00
	2) Excess Liability Renewal		
	Invoice No. 3744	O&M	\$ 87,545.00
	3) General Liability Renewal		
	Invoice No. 3770	O&M	\$ 213,726.85
	4) OMIDD Pollution Liability Renewal		
	Invoice No. 3772	O&M	\$ 60,372.50
m)	METCO		
	Invoice No. 1811-13	O&M	\$ 47,702.67
n)	Motor City Electric Technologies Inc.		
	1) Invoice No. 92879	O&M	\$ 154.00
	2) Invoice No. 92880	O&M	\$ 443.46
	3) Invoice No. 92881	O&M	\$ 154.00
	4) Invoice No. 92882	O&M	\$ 269.50
	5) Invoice No. 92883	O&M	\$ 1,211.08
	6) Invoice No. 92884	O&M	\$ 192.50
	7) Invoice No. 92885	O&M	\$ 154.00
	8) Invoice No. 92886	O&M	\$ 616.00
	9) Invoice No. 92887	O&M	\$ 616.00
	10) Invoice No. 92888	O&M	\$ 616.00

o) NTH Consultants, Ltd			
1)	NESPS – Additional OMID Rehabilitation Closeout Services		
	Invoice No. 6	O&M	\$ 3,587.12
2)	NI-EA – Engineering Design Services for Rehabilitation of NI-EA Sections	PCI-4	
	Invoice No. 8	O&M	\$ 105,405.17
3)	REPAIRS – OMID System Immediate Repairs		
	Invoice No. 12	O&M	\$ 5,597.93
4)	NI-EA – NI-EA Lining Options and Study		
	Invoice No. 17	Seg. 4	\$ 947.41
5)	NESPS – Construction Material Testing for NESPS Odor/Corrosion System		
	Invoice No. 4	Seg. 4	\$ 2,135.31
6)	NESPS CCA – Emergency Rehabilitation of the NESPS Discharge Chamber		
	Invoice No. 49	Seg. 4	\$ 1,898.24
p) PM Technologies			
1)	Invoice No. 134622	O&M	\$ 1,348.52
2)	Invoice No. 134306	O&M	\$ 1,504.00
q) Rotor Electric			
1)	Invoice No. 12280	O&M	\$ 6,639.11
2)	Invoice No. 12281	O&M	\$ 796.80
3)	Invoice No. 12282	O&M	\$ 9,514.50

11. Liability and Property Insurance Policy Renewal Update (Meadowbrook)

12. Other Business

13. Adjourn

Next Regular Meeting: March 18, 2020 at the *Office of the Oakland County Water Resources Commissioner, One Public Works, Building 95 West, Waterford, Michigan* at 11:30 a.m., Eastern Standard Time.

Agenda Item No. 3

Board Meeting Minutes from January 15, 2020

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

January 15, 2020

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

PRESENT:

Michael Gregg, Chairperson and Deputy for Gary McDowell, Director of the Michigan Department of Agriculture and Rural Development; Brian Baker on behalf of Candice Miller, Member and Macomb County Public Works Commissioner; and Jim Nash, Member and Oakland County Water Resources Commissioner.

OTHERS PRESENT:

Representing the office of the Macomb County Public Works Commissioner: Stephen Downing. Representing the office of the Oakland County Water Resources Commissioner: Sid Lockhart; Anne Vaara; Steven Korth; Megan Koss; Evans Bantios. Others in attendance: Brady Harrington; MDARD; Fritz Klingler, FK Engineering; Shawn Phelps, OC Fiscal Services; Larry Gilbert and Saju Sachi, NTH Consultants; Jason Matteo, Jacobs; Jim Kelley, Meadowbrook Insurance; John Axe, Clark Hill.

1. Call meeting to order.

Chairperson Gregg called the meeting to order at 11:38 a.m.

2. Agenda.

Motion by Nash, supported by Baker, to approve the January 15, 2020 agenda as presented.

AYES: Gregg, Baker and Nash

NAYS: None

3. Minutes.

Motion by Baker, supported by Nash, to approve the minutes of the December 18, 2019 meeting.

AYES: Gregg, Baker and Nash

NAYS: None

4. Public Comment. None.

5. Resolution to Authorize Tax and Continuing Disclosure Post Issuance Compliance Procedures.

John Axe of Clark Hill detailed what has been done and what will continue to be done with respect to tax compliance for the sale of the bonds, specifically regarding continuous disclosure. He noted that Steve Korth will serve as Compliance Officer.

Motion by Nash, supported by Baker, to adopt the resolution and authorize the Secretary to execute.

ROLL CALL VOTE:

Gregg: AYE

Baker: AYE

Nash: AYE

6. Engineering Work Order.

The following Engineering Work Order and project budget increase was submitted to the Board for approval:

LG Design Engineering Work Order No. D-412 for Additional Construction Contract Administration Services for an amount not to exceed \$332,569 and a total not to exceed amount of \$1,272,470.46. Motion by Nash, supported by Baker, to approve the LG Design Work Order for an amount not to exceed \$332,569 and a total not to exceed amount of \$1,272,470.46 as presented.

AYES: Gregg, Baker and Nash

NAYS: None

7. Change Order.

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

Change Order No. Three for CSM Mechanical, LLC for a net increase in the amount of \$26,349.16. Motion by Baker, supported by Nash, to approve CSM Mechanical LLC Change Order No. Three as presented.

AYES: Gregg, Baker and Nash

NAYS: None

8. Construction Pay Estimate.

The following Construction Pay Estimate was submitted to the Board for approval:

Construction Estimate No. Five for CSM Mechanical, LLC for a payment to the contractor in the amount of \$295,399.57 and a transfer of \$32,822.18 for deposit as retained funds in an interest-bearing account in a regulated financial institution in accordance with Act No. 524 of the Michigan Public Acts of 1980. Motion by Baker, supported by Nash, to approve Construction Pay Estimate No. Five as presented.

AYES: Gregg, Baker and Nash

NAYS: None

9. Report/Update – Status of OMI Project, Segments 1 through 4, NESPS.
Fritz Klingler of FK Engineering presented the Project Progress Update to the Board and summarized the status of various projects. Motion by Nash, supported by Baker, to receive and file the report and summary (as attached).

AYES: Gregg, Baker and Nash
NAYS: None

10. Financial Reports.
Shawn Phelps of OC Fiscal Services presented the financial reports for Segments 1 through 4 and the NESPS. Motion by Nash, supported by Baker, to receive and file the financial reports (as attached).

AYES: Gregg, Baker and Nash
NAYS: None

11. Invoices.

The following invoices were submitted to the Board for approval:

- a) Reimbursement of Oakland County WRC-Incurred Expenses and Costs
- 1) Labor/Fringes/Non-Direct Labor Factor
 - Segment 4 \$ 3,517.86
 - Segment 4 Odor Corrosion Study \$ 16,662.73
 - Segment 4 Mileage \$ 905.96
 - 2) Equipment Charges
 - Segment 4 \$ 368.08
 - Segment 4 Odor Corrosion Study \$ 1,886.81
- b) Reimbursement of Macomb County-Incurred Expenses and Costs
Macomb County SCADA Reimbursement
Invoice No. ARP200018 \$ 11,520.84
- c) Applied Science, Inc
Invoice No. 7504 NESPS M&E \$ 130,884.95
- d) CSM Mechanical, LLC
Invoice No. 19-007 O&M \$ 446.37
- e) Dickinson Wright
Invoice No. 1432261 NESPS M&E \$ 1,050.00
- f) Hutchinson Shockey Erley & Co
Invoice No. N/A O&M \$ 5,000.00
- g) Kennedy Industries
Invoice No. 615174 O&M \$ 16,670.00
- h) Meadowbrook Insurance Agency
Invoice No. 2026 Seg. 4 \$ 51,530.93
- i) METCO
Invoice No. 1811-12 O&M \$ 33,183.04

j)	Municipal Financial Consultants			
	Invoice No. 1062	O&M	\$	15,493.55
k)	NTH Consultants, Ltd			
	1) Invoice No. 5	NESPS Trans.	\$	1,616.10
	2) Invoice No. 7	O&M	\$	63,941.91
	3) Invoice No. 11	O&M	\$	1,969.89
	4) Invoice No. 16	Seg. 4	\$	1,966.13
	5) Invoice No. 3	Seg. 4	\$	1,488.82
l)	PM Technologies			
	Invoice No. 132705		\$	319.55
m)	Varnum			
	Invoice No. N/A	Seg. 4	\$	3,500.00

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

AYES: Gregg, Baker and Nash

NAYS: None

12. Liability and Property Insurance Policy Renewal Update.

Jim Kelley of Meadowbrook Insurance provided information to the board regarding the status of the Drainage District's property insurance. Kelley indicated that a policy of this type presented challenges to renew and that they are currently waiting on a follow-up from carrier Chubb. Discussion ensued as to coverage possibilities and potential future action. Motion by Nash, supported by Baker, to authorize Steve Korth and Brian Baker to find the requisite insurance coverage, report back to the Board regarding said coverage and execute the policy on behalf of the Board.

AYES: Gregg, Baker and Nash

NAYS: None

13. Other Business.

Member Baker indicated he would like a timeline for the sale of bonds at a future meeting.

14. Adjourn.

Motion by Nash, supported by Baker, to adjourn the January 15, 2020 meeting at 1:24 p.m.

AYES: Gregg, Baker and Nash

NAYS: None

Next Regular Meeting: February 19, 2020 at the *Office of the Oakland County Water Resources Commissioner, One Public Works, Building 95 West, Waterford, Michigan* at 11:30 a.m., Eastern Standard Time.

I hereby certify that the foregoing constitutes the minutes of the Drainage Board for the Oakland-Macomb Interceptor Drain Drainage Board, at a meeting held on January 15, 2020 and that the meeting was conducted and public notice was given in compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes were kept and will be or have been made available as required by the Act.

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

Jim Nash, Secretary
Oakland-Macomb Interceptor Drain Drainage Board

Agenda Item No. 4

Public Comment

Agenda Item No. 5

Present Executive Summary regarding
OMID Corrosion Control Study

Executive Summary

The Oakland-Macomb Interceptor Drain (OMID) wastewater collection system has experienced degradation in some sewer reaches due to sulfuric acid formed from hydrogen sulfide (H_2S). The H_2S has also been the source of recurring odor complaints at some locations in the service area. These issues have been ongoing since the system was originally constructed in the 1970s. Previous studies were performed to begin addressing these issues, and some efforts have been made to mitigate them. However, there are significant remaining problems that must be addressed to: (1) prevent further degradation, (2) extend the life of the interceptor sewer system, and (3) reduce odor complaints throughout the system.

To provide a robust evaluation, Jacobs conducted an extensive data-collection effort to obtain measurements of sewer air pressure differential and H_2S concentration. These data were used to develop a sewer process model with Jacobs' Wastewater Aerobic/Anaerobic Transformations in Sewers (WATS) modeling platform. WATS predicts odors and corrosion rates and is used to help determine the most effective locations and alternatives for mitigation. Air dispersion modeling was also conducted using the AERMOD program to determine the levels of odor control required to mitigate odors and reduce complaints.

The turbulence caused by vertical drops and release of stored wastewater releases the odorous and corrosive sulfides from the liquid phase into the vapor phase. Wastewater is stored in the OMID using flow control (gate) structures. When stored wastewater is released, turbulence strips the H_2S from the wastewater liquid into vapor-phase in the sewer headspace. The OMID system is fairly "closed," meaning that there are relatively few openings or ventilation points that would allow fresh air to dilute the H_2S in the sewer headspace. The resulting peak vapor-phase H_2S concentrations and sewer pressures are very high, and even the average H_2S concentrations are high enough to cause excessive corrosion and odor complaints. It was found that some level of storage and release could continue without a significant impact on sewer corrosion. However, if storage and release occur frequently—such as every day—then the pipe life could be significantly reduced, especially directly downstream of the flow control structures.

There are many alternatives for mitigating odors and corrosion in wastewater systems, and the two major alternatives are liquid-phase and vapor-phase treatment. Liquid-phase treatment adds chemicals to the wastewater stream. Vapor-phase treatment extracts air from the sewer headspace, and devices are used to remove odor-causing compounds before the treated air is discharged into the atmosphere. Several types of vapor- and liquid-phase alternatives were evaluated in detail. It was found that vapor-phase treatment had a lower life-cycle cost than liquid phase, and vapor-phase would provide more reliable and efficient control.

Based on the field measurements and model predictions, Jacobs recommends that vapor-phase control be installed at the ST-S-3 and CS-6 sites as shown in Figure ES-1 on the following page. The approximate extents of the zone of influence for each odor control system are shown as well. The recommended odor control facility at ST-S-3 is also expected to capture odorous air from most of the Avon Arm. Odorous levels of H_2S were found to occasionally occur during the sampling period in the upper reach of the Avon Arm. If historically there have been odor complaints in the upper reaches of the Avon Arm, then the required air-flow rate of the recommended ST-S-3 odor control facility can be increased by perhaps up to 25 percent to mitigate odors originating from the upper end of the Avon Arm.

Vapor-phase controls also have non-monetary advantages. Carbon or other similar dry medium is recommended for both locations, although the other vapor-phase technologies are also feasible and could be considered. It is important to note that during storage conditions, the recommended vapor-phase control locations would not provide control in all sewer reaches due to sewer headspace constrictions. Passive carbon could be installed at multiple upstream locations to address this but is likely not warranted due to the anticipated relatively low frequency of use of the control structures for flow control and management and the relatively low risk of complaints.

Corrosion will be significantly mitigated by the recommended vapor-phase controls, especially for the main interceptor sewers. However, there may be localized corrosion at the drop connections and flow control (gate) structures, although it is difficult to estimate the extent of these highly localized corrosion impacts. It may be necessary to line some of these sewer reaches. Jacobs recommends that drop connections be inspected to determine the extent of any corrosion, and then a plan for lining specific areas could be developed based on that.

The size of the recommended vapor-phase devices is not large enough to depressurize the sewers for some storage and release events when high release rates cause high pressures. The vapor-phase devices would have to be much larger and would be much more costly to be able to depressurize and treat all storage events.

Several storage and release events per year could occur without a significant impact on the sewer life due to corrosion. The frequency of storage and release in upcoming years and its impact on sewer corrosion should be considered and discussed further. Evaluations showed that if storage and release events were to be done frequently—such as every day—the pipe life could be significantly reduced.

It was also found that if infiltration and inflow in the interceptor sewers and in upstream collection systems continue to be reduced, the more concentrated wastewater will result in higher H₂S headspace concentrations that could cause an increase in odors and corrosion. The impacts of infiltration and inflow reductions on odor and corrosion should be carefully considered. An attachment to this executive summary provides additional details.

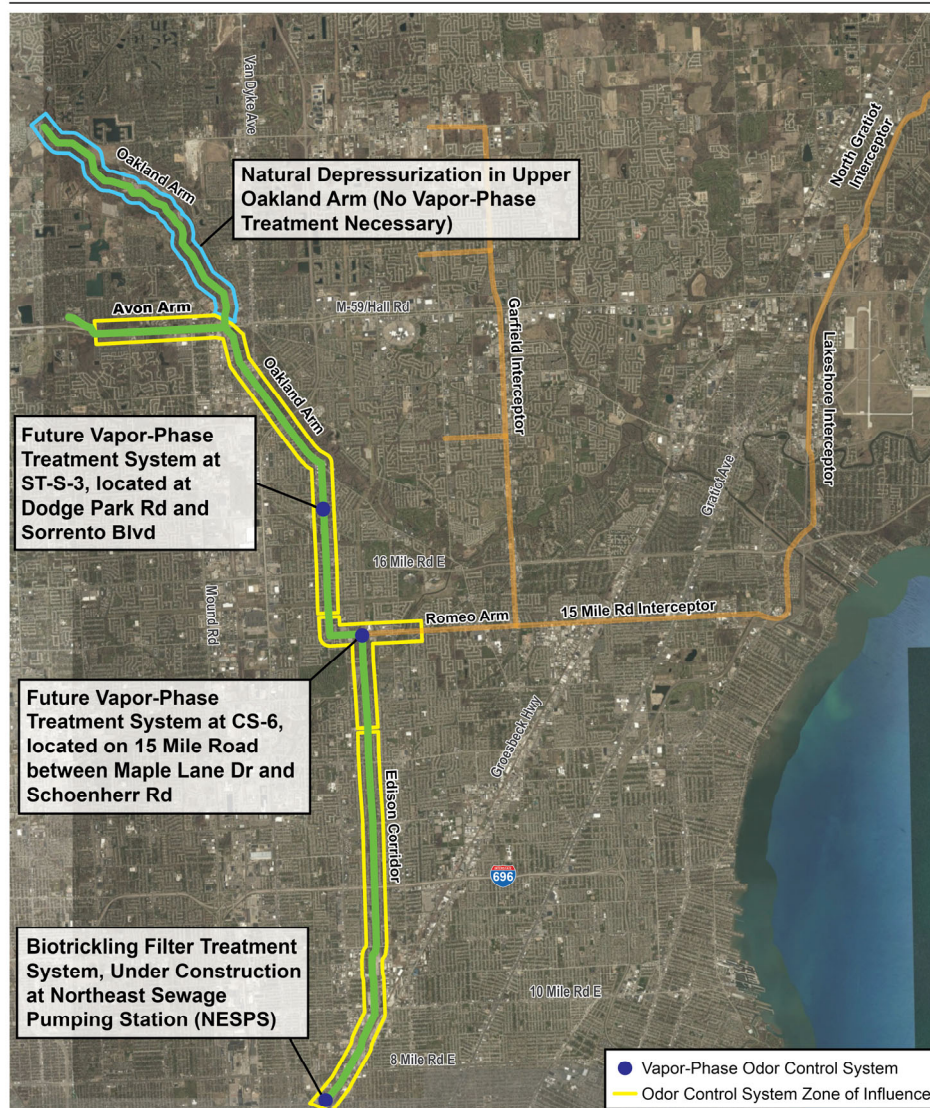


Figure ES-1
 OMID System — Oakland Arm, Avon Arm, and Edison Corridor Interceptors
 OMID/MID System-Wide Odor and Corrosion Study

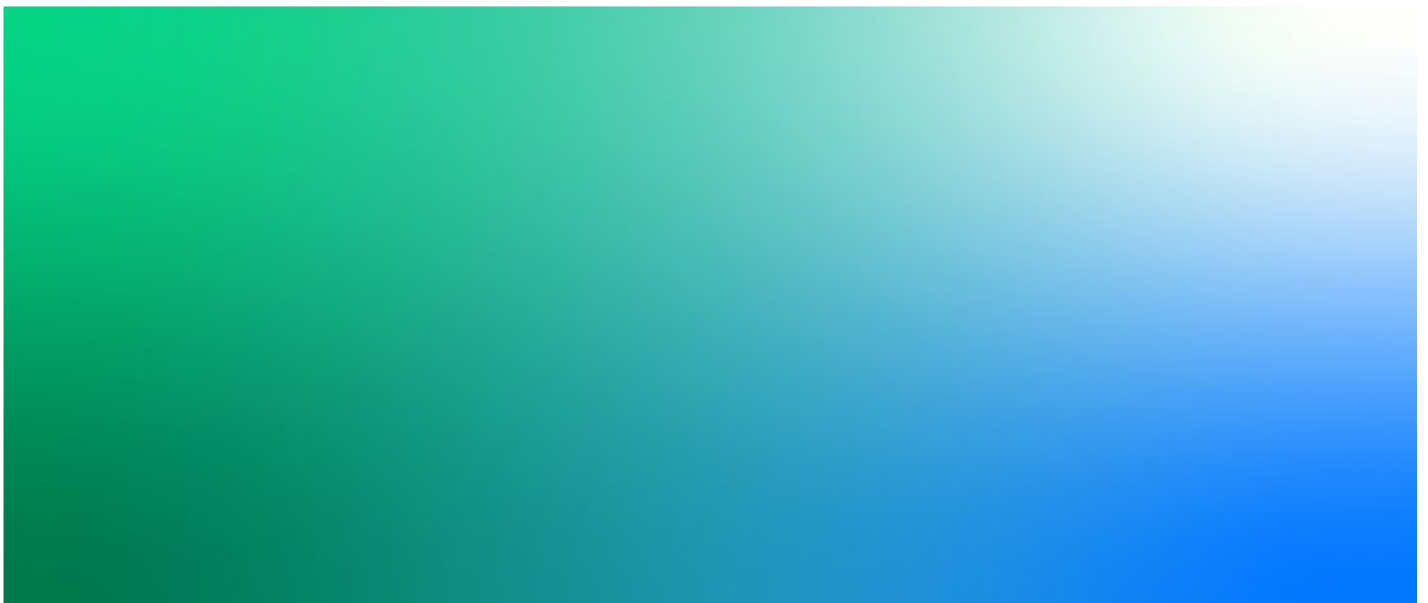
Attachment
Preface to the Oakland-Macomb Interceptor
Drain Draft Odor and Corrosion Control
Study Report



Oakland-Macomb Interceptor Drain Draft Odor and Corrosion Control Study Report

February 2020

Oakland-Macomb Interceptor
Drain Drainage District



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Preface

The Oakland-Macomb Interceptor Drain (OMID) wastewater collection system has experienced degradation in some sewer reaches due to sulfuric acid formed from hydrogen sulfide (H_2S). The H_2S emitted from the interceptor system has also been the source of recurring odor complaints. These issues have been ongoing since the OMID system, a large diameter sanitary sewer system, was originally constructed in the 1970s. There have been past studies performed to begin addressing these issues and some efforts have been made to mitigate them. However, there are significant remaining problems that must be addressed to: (1) prevent further degradation; (2) extend the life of the interceptor sewer system; and (3) reduce odor complaints throughout the system.

The most prevalent odor source in sewers and in municipal wastewater pumps stations is H_2S . Sulfides must be transferred from liquid-phase to vapor-phase for odors and corrosion to occur. For the OMID system, turbulence caused by vertical drops in the system, abrupt sewer slope changes, and sewer direction changes releases sulfides from the liquid- into the vapor-phase.

The Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) contracted CH2M HILL Engineers, Inc. (now Jacobs) to conduct a detailed, system-wide odor and corrosion evaluation and to develop an odor and corrosion control strategy for the OMID interceptor sewer system. This study built upon past related work and coordinated with the Macomb Interceptor Drain Drainage District. Potential effects on odors and sewer corrosion rates from operating scenarios using existing flow control structures and pump stations were evaluated. An assessment was made of several alternatives to further mitigate odors and corrosion throughout the OMID. Conceptual designs and cost opinions for these mitigation alternatives were also prepared.

To provide a robust evaluation, the project included an extensive data collection program of sewer air pressure differential and H_2S concentration data. This data was used to develop a detailed sewer process model using the Wastewater Aerobic/Anaerobic Transformations in Sewers (WATS) modeling platform. The WATS program predicts odors and corrosion and is used to help determine the most effective locations and alternatives for mitigation. Air dispersion modeling was also conducted to determine the levels of odor control required to mitigate odors and reduce complaints.

Past Studies and Mitigation

Previous studies have been conducted to better understand the issues and to begin mitigating odors and corrosion in the OMID sewer system. These studies include a 2011 Corrosion Identification and Control Study prepared by others that recommended rehabilitation and mitigation methods as well as removal of debris from some sewer reaches. In 2018, an odor/corrosion mitigation study was prepared by Jacobs for the Northeast Sewage Pumping Station (NESPS). The study recommended installing a 25,000-cubic-foot-per-minute (cfm) biotrickling filter that controls odors and corrosion inside the pump station (both in the dry well and wet well), upstream in the Edison Corridor and downstream of NESPS in PCI-4 and a portion of the North Interceptor – East Arm. This 25,000-cfm biotrickling filter is currently under construction in the NESPS yard and is anticipated to be operational by early 2020.

Field Sampling and WATS Model Development

Data were collected over a 4-week period that were used to characterize the system and calibrate the WATS odor and corrosion model. This included continuous vapor-phase H_2S and sewer pressure monitoring at 17 locations. An example of the data collected for this study is shown in Figure i. In addition, liquid samples were collected to characterize the wastewater for parameters including BOD, dissolved oxygen, and sulfides.

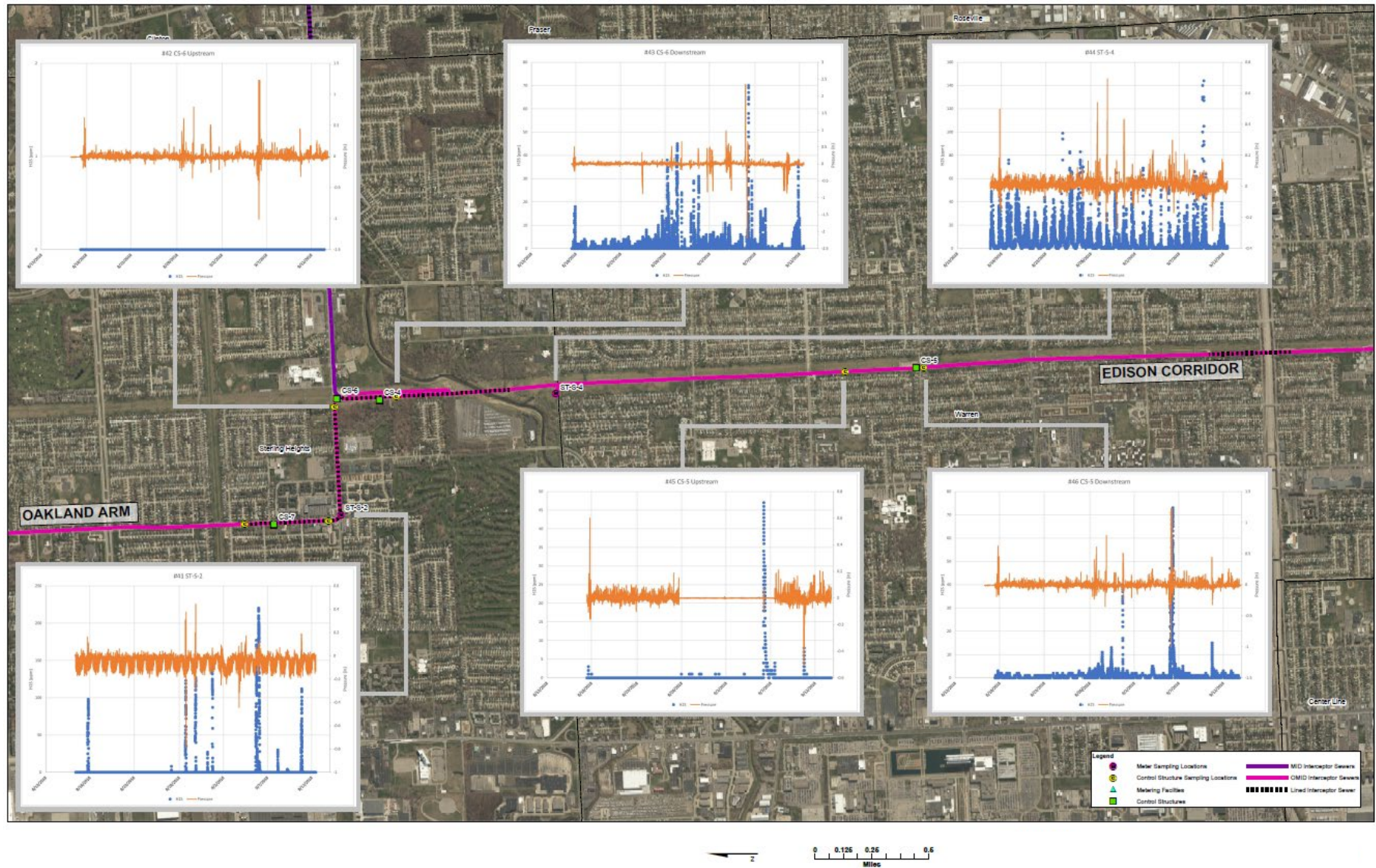


Figure i. Example of Collected H₂S and Pressure Data During Sampling Program

Using the results of the field sampling and the OMID hydraulic model (using the EPA-SWMM5 modeling platform), a WATS sewer process computer model was developed and calibrated. The model was then used to determine the source of odors and corrosion. WATS was also used to determine the optimum odor and corrosion mitigation strategies and concept-level sizing for these mitigation alternatives. The WATS model was also a valuable tool in predicting current and future sewer corrosion rates for a range of operating scenarios and flow rate conditions.

Causes of Odors and Corrosion

The WATS modeling effort combined with the collected field data were used to determine the following conclusions and observations:

- The sulfides generated in the OMID interceptor sewers are typical or perhaps slightly higher than those found in other similar sewer systems in areas with temperature ranges similar to southeast Michigan. In some other collection systems, high levels of sulfides are formed due to conditions such as excessive detention times, high industrial loadings, long force mains and/or high wastewater temperatures. These conditions were not generally found in the OMID system. However, the H₂S headspace concentrations are higher than acceptable and require mitigation. Nearly all the odor/corrosion in the OMID system are due to turbulence, which strips out the hydrogen sulfide in the liquid wastewater into the sewer headspace. The turbulence is caused by:
 - The change in elevation at the drops from typical sanitary sewers into the much deeper OMID interceptors. The drops are up to approximately 35+ feet above the receiving OMID interceptor invert at the points of connection and the wastewater drops in a “waterfall” type drop, which results in a much higher amount of turbulence compared to other types of drops such as vortex drops which are designed to dissipate energy. There are 10 drops like this directly on the OMID system that provide multiple opportunities to continuously strip H₂S to the vapor phase.
 - Wastewater is stored in the OMID using flow control (gate) structures. When stored wastewater is released—either by opening the low-flow sluice gates or overtopping the divider walls in the flow control structures—turbulence strips the H₂S from the wastewater liquid into the sewer headspace. The release of stored wastewater can also cause more odorous H₂S to be released from openings in the upstream customer collection systems.
- The OMID system is fairly “closed” meaning that there are relatively few openings or ventilation points that would allow fresh air to dilute the H₂S that is stripped due to the drops and storage release. Most manhole covers are sealed or do not have openings. Manholes along the interceptors that are spaced relatively far apart (in some cases more than 1,000 feet) result in low natural ventilation rates. The peak vapor phase H₂S concentrations exceed 100 ppm at some locations; even average H₂S concentrations of more than 5 or 10 ppm can cause excessive corrosion and/or odor complaints. Concentrations vary across the OMID system depending upon site specifics. The National Institute for Occupational Safety and Health sets 100 ppm as the Immediately Dangerous to Life or Health level, and lower concentrations also pose health and safety risks.

Corrosion

Figure ii shows the WATS model-predicted level of corrosion throughout the OMID system. Higher “WATS scores” indicated higher rates of sewer corrosion. A score of 5,000 indicated a concrete corrosion rate of greater than 1 inch over 50 years and a score of 1,000 indicated up to 0.25 inch over 50 years. The WATS scoring system was an attempt to correlate the WATS model results to the condition assessments that were done using the Pipeline Assessment Certification Program (PACP) ratings. PACP is the North American Standard for pipeline defect identification and assessment, providing standardization and consistency to the methods in which pipeline conditions are identified, evaluated, and managed. The PACP quick rating considers a variety of condition variables including deposits, roots, inflow and infiltration (I & I), joint and

grout condition, and cracks. Most of these do not directly relate to the impacts of H₂S corrosion. Moreover, the historical loss of concrete surface due to corrosion may be of limited value since system operations have changed over time. The H₂S generation may have been different in the past since, for example, conditions such as average dry weather flow rates (including interceptor I & I), BODs, flow management (storage and release), and customer community sewer operations have changed.

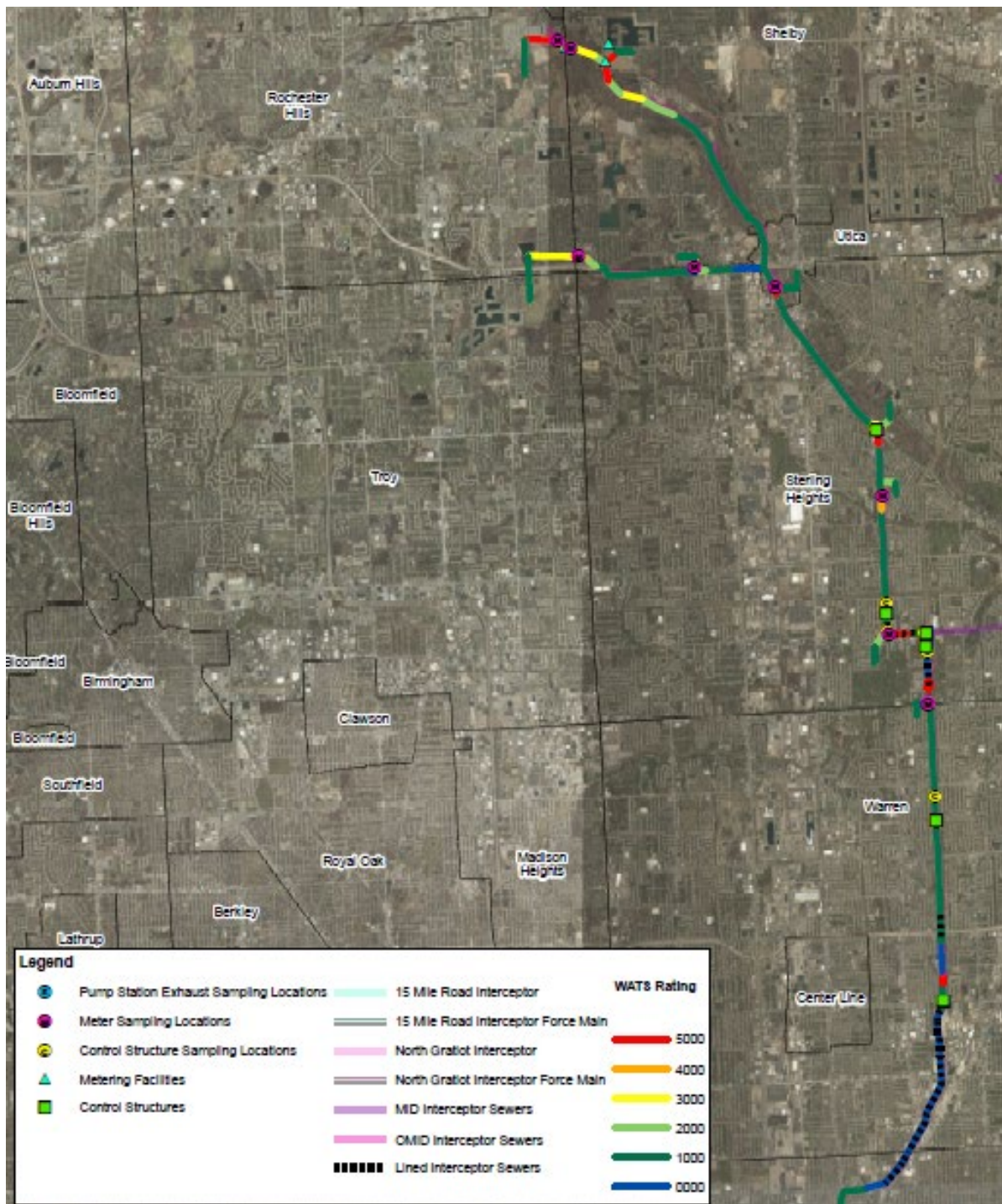


Figure ii. WATS Model-Predicted Sewer Corrosion Ratings

Odors

Air dispersion modeling using site-specific meteorological data was done to determine the levels of H₂S and pressures are acceptable to mitigate odor complaints. Air dispersion modeling was done for a wide variety of scenarios and model results indicated the following:

- At about 10 ppm and less than 3 inches to 4 inches of water column headspace, odor control is not necessary to mitigate complaints from a receptor (a person) about 50 feet away from a manhole (typical distance from a manhole in the middle of the street to the front of a house). If a receptor were closer, then the allowable H₂S concentration and pressure would be less. Corrosion of sewers must also be considered when determining the maximum allowable H₂S concentration.
- For a “typical” vent at an air flow rate of 1 million gallon per day, the allowable H₂S concentration would be about 2 ppm assuming the receptor is 50 feet away. Air flow rates from the vents are approximately proportionate to wastewater flow rates. Drop connections with higher wastewater/air flow rates would have higher impacts and lower flow rates would have lesser impacts. This means that some drop shafts with lower wastewater/air flow rates may not need controls.

Flow Control Operations (Storage and Release Modes) Impacts

During the sampling effort, there were several times when the flow control structures were operated to store wastewater by closing the low flow sluice gates (Storage Mode) followed by releasing the stored wastewater into downstream sewer reaches by overtopping the divider walls and/or opening the low flow sluice gates (Release Mode). The storage of wastewater provides additional detention time promoting sulfide production that, when gates open, is stripped due to the turbulence created by weir flow over the divider walls and flows at high velocities through the sluice gate openings. The WATS model was used to simulate the impacts of Storage Mode and Release Mode on sewer corrosion rates.

Figure iii provides an example of collected data that illustrates how Storage Mode and Release Mode at the flow control structures impact H₂S stripping and air pressures in the OMID interceptor sewer system.

The sewer corrosion rates predicted with the WATS model were used to estimate approximate remaining pipe life, assuming replacement would occur after one inch of concrete was corroded. The amount of concrete available to corrode will vary. Several scenarios were evaluated for various numbers of storage events and H₂S concentrations including those shown in Figure iv.

Results shown in Figure v suggest that several storage and release events per year could occur without any additional mitigation required to reduce H₂S concentrations. The frequency of storage and release in upcoming years and its impact on sewer corrosion should be considered and discussed further in future system operations planning. However, it shows that if storage and release occur frequently—such as every day—the pipe life could be significantly reduced. Note the sewer corrosion rates begin to plateau at H₂S concentrations above approximately 20 parts per million by volume (ppmv), which is a phenomenon supported by the latest research.

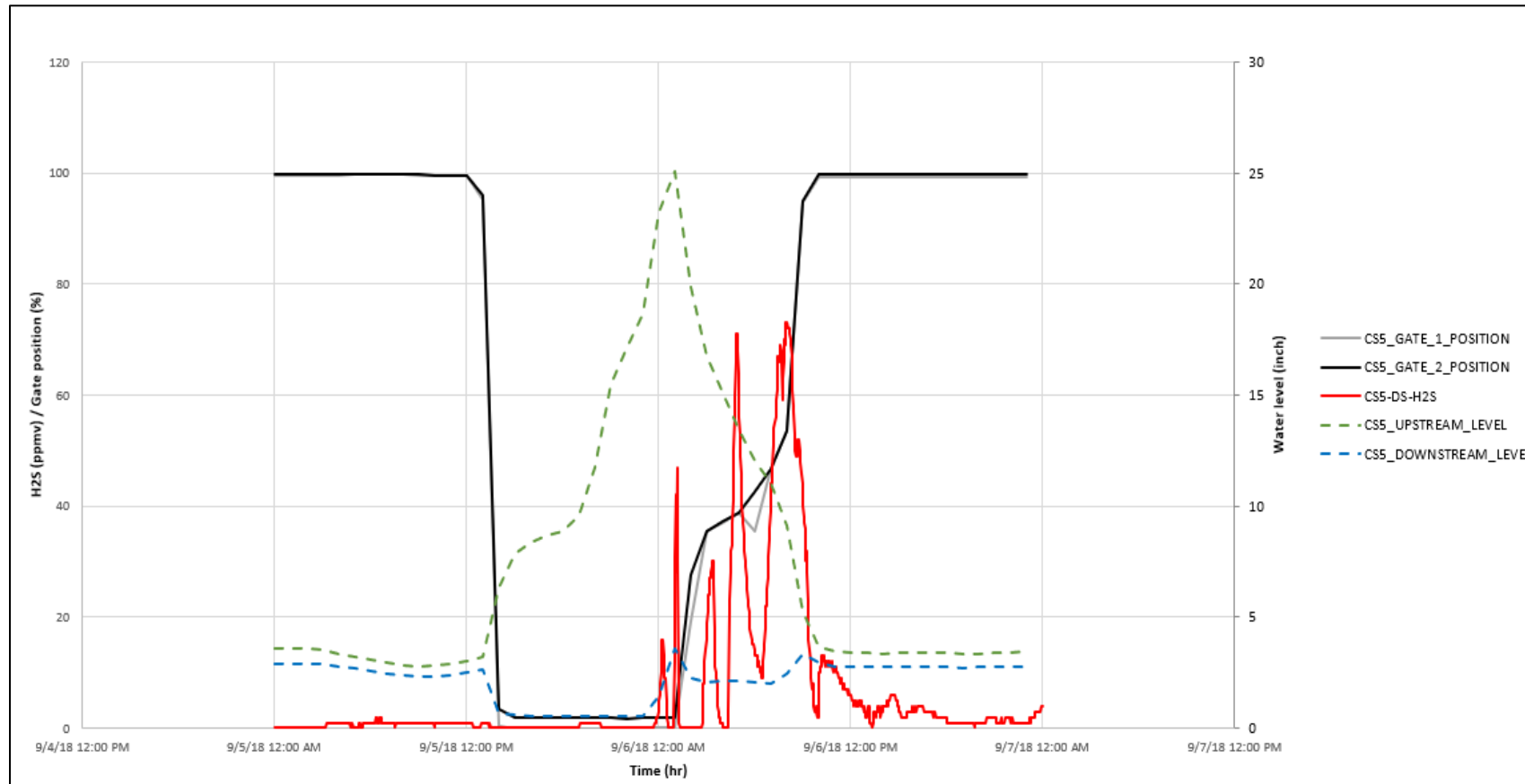


Figure iii. H₂S Levels During Wastewater Storage and Release Event at CS-5

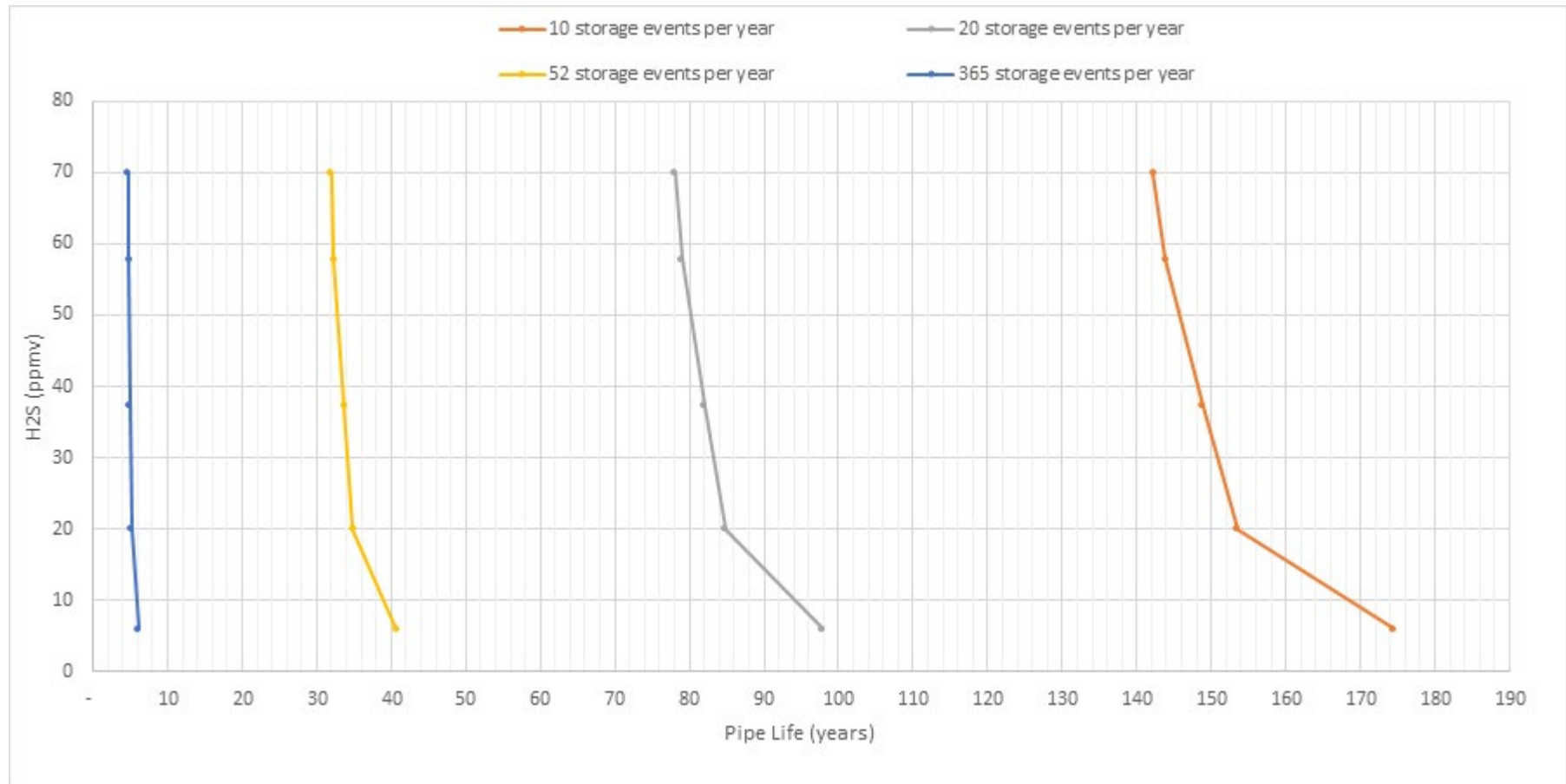


Figure iv. Impact of CS-5 Operation on Downstream Pipe Life Due to Increased Corrosion

Pipe life assumed 1 inch of corroded concrete before action is needed.

Mitigation Alternative Evaluation

There are many alternatives for mitigating odors and corrosion in wastewater collection systems. The two major categories of treatment technology described below are liquid-phase and vapor-phase treatment. Liquid phase treatment adds chemicals to the wastewater stream. Vapor phase treatment extracts air from the sewer headspace and devices are used to remove odor-causing compounds before the treated air is discharged to the atmosphere.

Vapor Phase Control Alternatives

Modeling computations can be prepared to estimate air flow rates and locations of odor control devices. However, the calculations are complex and sometimes result in inaccurate estimates. To address this potential shortcoming, fan testing was conducted for this study. A fan was used to ventilate the sewer headspace at several locations and the sewers were monitored for pressure at several locations ranging from about 100 feet or less to more than 4 miles away from the air extraction points to characterize the fan "zone of influence" achieved by various air extraction rates. The fan air flow rate and pressure readings were used to determine the optimum locations and sizes (i.e., air flow rates) of vapor phase odor control needed to achieve negative pressures in the interceptor sewer system. An OdaLog installed at the fan inlet measured H_2S concentrations at a range of air ventilation rates and those were used to help select the best vapor phase odor control device. The H_2S concentrations into the fan were low, meaning that activated carbon may be the lowest cost control because low concentrations of H_2S result in longer carbon life, which reduces the life cycle cost for activated carbon.

Figure v shows the approximate zones of influence for potential future odor control systems along with preliminary sizes that may be needed to control odors and corrosion throughout the system. Based on the fan testing, it was determined that vapor phase controls at sites located near ST-S-3 (on the Oakland Arm at Sorrento Blvd., near Dodge Park and 17 Mile Road) and at CS-6 (near 15 Mile Road and the ITC overhead power line corridor) would depressurize the system and mitigate odors and corrosion. Vapor-phase alternatives were evaluated for these two locations. The recommended odor control facility at ST-S-3 is also expected to capture odorous air from most of the Avon Arm. Odorous levels of H_2S were found to occasionally occur during the sampling period in the upper reach of the Avon Arm. If historically there have been odor complaints in the upper reaches of the Avon Arm, then the required air flow rate of the recommended ST-S-3 odor control facility can be increased by perhaps up to 25 percent to mitigate odors originating from the upper end of the Avon Arm. The remaining portions of the OMID (Oakland Arm and Edison Corridor) is either naturally depressurized or will be treated by the biotrickling filter at the NESPS, which is currently under construction at the time of this report.

Impact of Surcharging on Vapor Phase Controls

It is important to note that this vapor phase system assumes that the sewers all have open air headspace above the wastewater through which to pull air. An exception to this is the known restrictive connection at 15 Mile Road just east of Garfield Road, at which air is prevented from flowing due to high wastewater and air flow velocities through the 5-foot connection between the 15 Mile Road Interceptor and the Garfield Arm Interceptor.

Storage events at the flow control structures and pump stations can create high wastewater levels and sometimes surcharging that may not allow vapor phase systems to pull air from all areas of the OMID system. Passive carbon on openings upstream of bottlenecks could be used to control odors. Emissions from the sewer surcharging would be relatively low due to reduced velocities in both the wastewater and air flow rates during Storage Mode. If the openings are large and serve as vents for high pressure sewer headspace air, then carbon facilities may need a bypass damper for relief of high-pressure air (during high flow/storage events). The damper would avoid having to install a very large, expensive carbon system that would only be used during infrequent high wastewater levels.

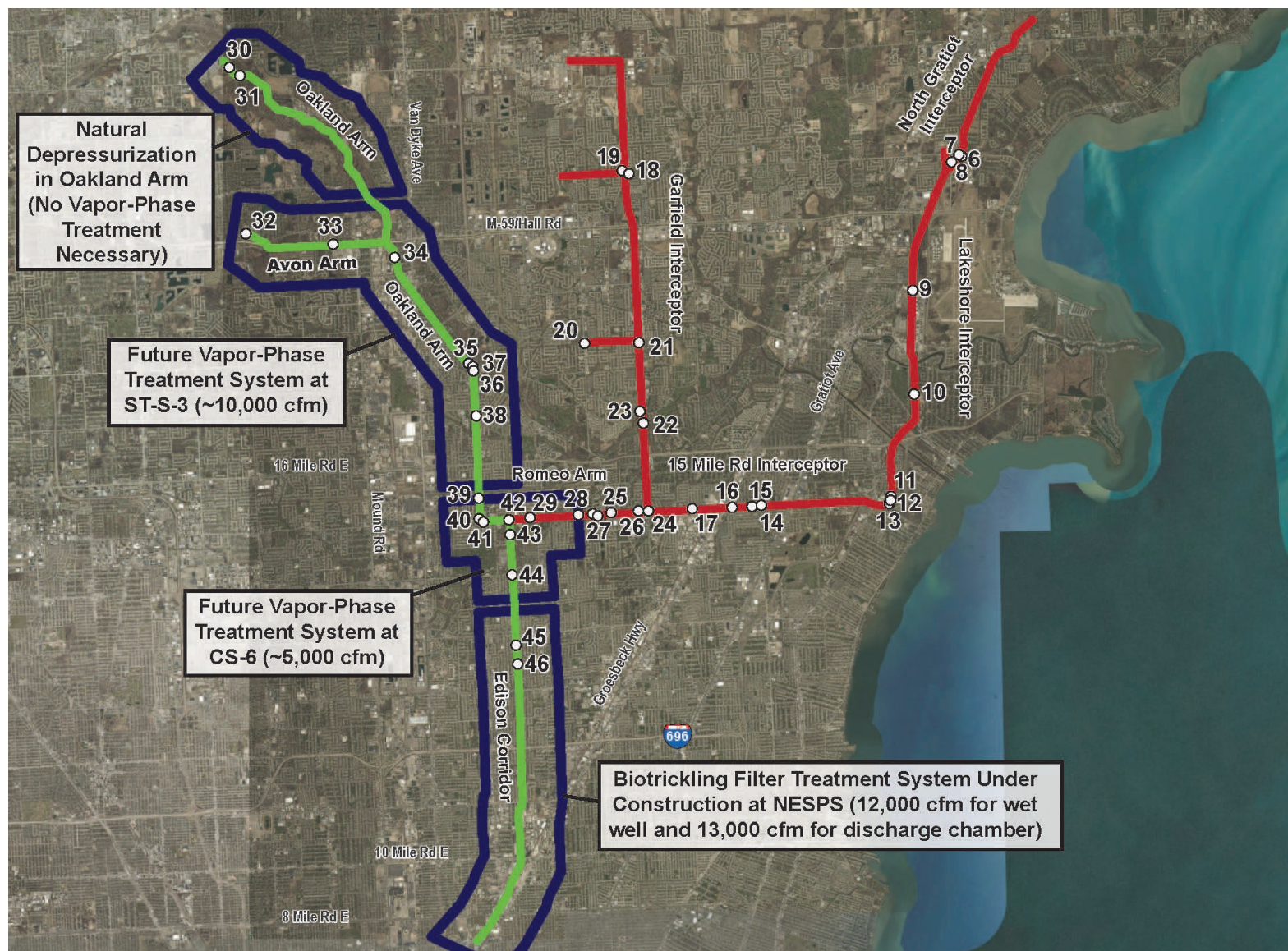


Figure v. Approximate Air Flow “Zones of Influence” from Fan Testing

Liquid Phase Controls

Liquid-phase treatments involve adding chemicals upstream of each drop connection into the system to reduce or eliminate sulfides in the wastewater and to avoid releasing H₂S from the turbulence at the drop connections. This would require finding several locations in customer communities' collection systems where chemical addition systems could be constructed. There would be a chemical dosing station upstream of each turbulence causing drop into the OMID system. The estimated nine systems would include feed pumps, a chemical storage tanks and for larger systems, a building. The WATS model was used to estimate the dose and costs of chemicals required to control odors throughout the OMID system.

Sewer Lining

If vapor phase control is implemented, the sewers will be depressurized, and odors will be effectively controlled. Corrosion will also be significantly mitigated, especially for the main interceptors. However, there may be localized corrosion at the drops, near the flow control (gate) structures and the connecting sewers from the bottom of the drops to the interceptors, especially for the parts of the sewer that are not wetted surfaces. This is because the wastewater that splashes on the sewer walls at the drop will tend to wash away the corrosive sulfuric acid. It is, however, difficult to estimate these highly localized H₂S concentrations and their corrosion impacts. It may be necessary to line some of these areas. It is recommended that if feasible, one or more the drop areas be inspected to determine the extent of any corrosion and then a plan for lining specific areas could be developed based on that.

Mitigation Cost Comparison

For liquid-phase treatment, ferric chloride appears to have the lowest cost; however, ferric chloride (unlike hydrogen peroxide and calcium nitrate) will only remove approximately 90 percent of the sulfides at the dosages assumed. Hydrogen peroxide and calcium nitrate have the potential for 100 percent control with proper dosing control. Also, ferric chloride (and hydrogen peroxide) are hazardous to handle while calcium nitrate is not.

For vapor-phase treatment, activated carbon, biofilters and biotrickling filters were evaluated. Site plans, conceptual designs and cost estimates were prepared for the preferred alternatives at the 2 proposed locations (ST-S-3 and CS-6).

At ST-S-3, a biofilter with engineered media would require a taller stack (approximately 20-feet tall) because the efficiency of a biofilter is not as high as the efficiency of several other alternatives. Carbon would require a shorter stack (approximately 10-feet tall). It was assumed that odor control at ST-S-3 would be installed in a buried vault to improve visual aesthetics of the site and for noise attenuation.

At the CS-6 site, there is an existing carbon system. It was found that rehabilitation of that system is likely not cost-effective and not viable.

Figures vi and vii show conceptual layouts of a carbon system at ST-S-3 and a biofilter at CS-6.

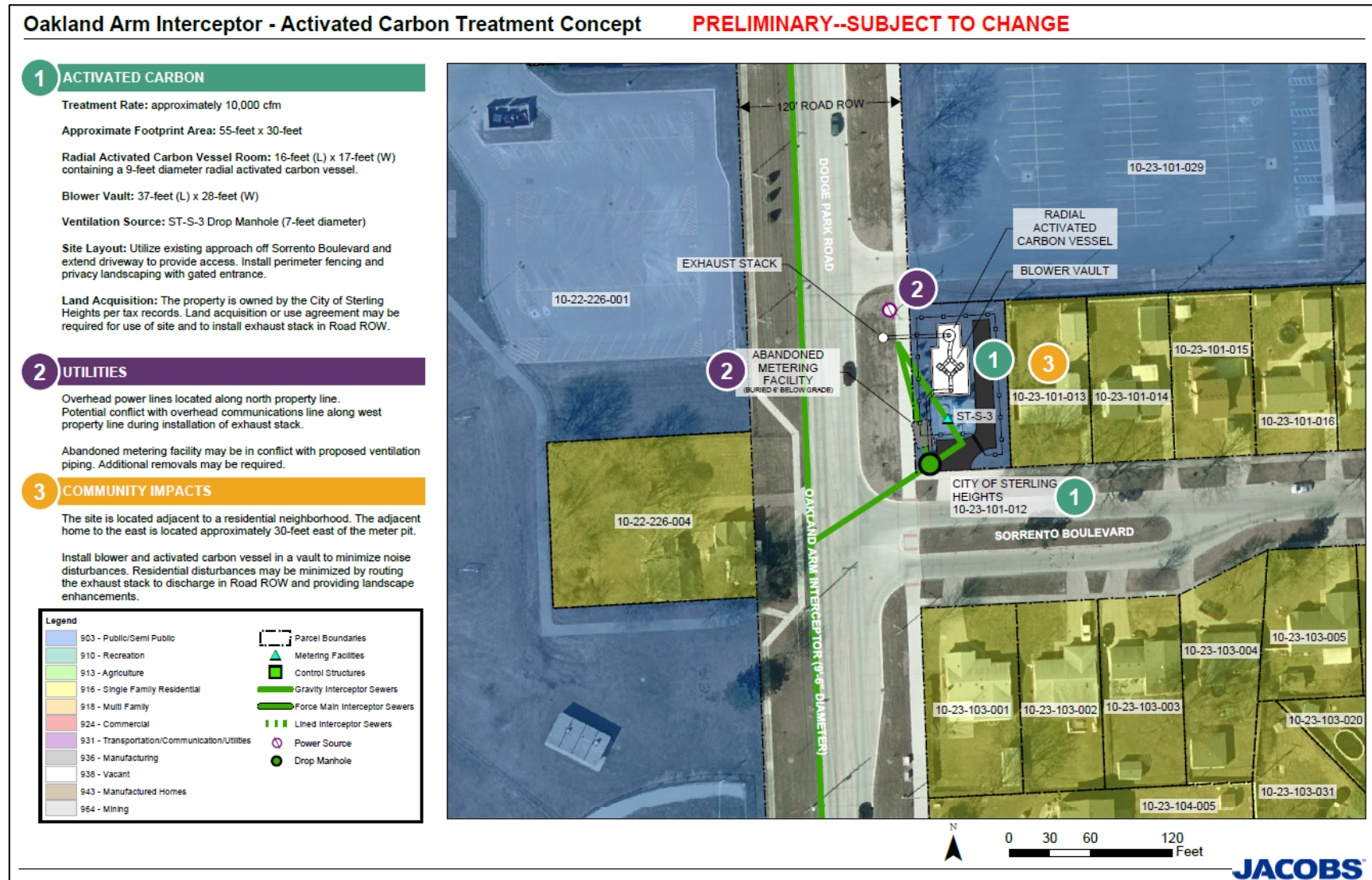


Figure vi. Biofilter with Engineered Media, System Layout at Metering Site ST-S-3

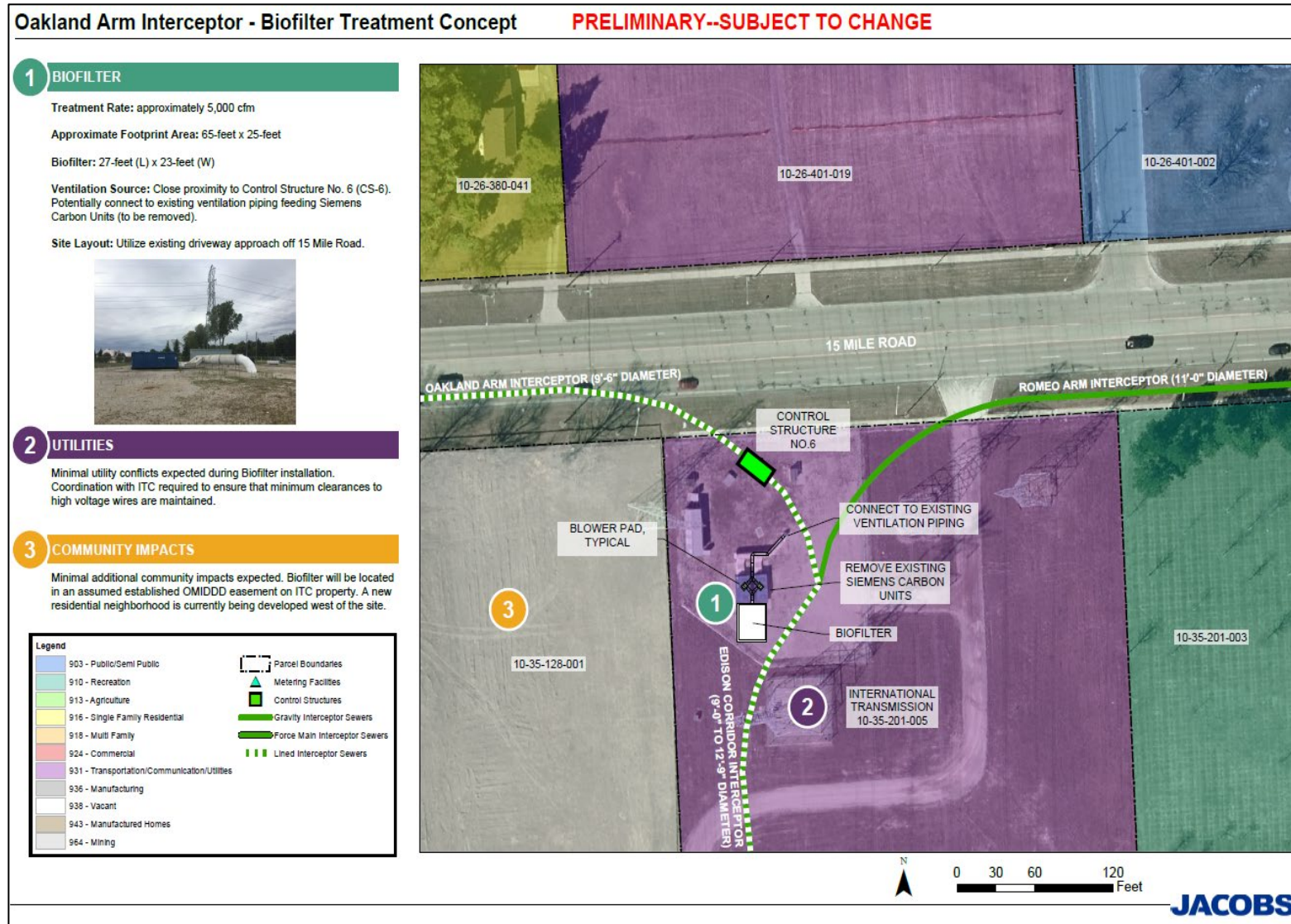


Figure vii. Biofilter with Engineered Media, System Layout at Flow Control Structure CS-6

Tables i and ii show the estimated costs of liquid- and vapor-phase treatment options.

Table i. Cost Estimates for Liquid-Phase Treatment Alternatives

	Ferric Chloride	Hydrogen Peroxide	Calcium Nitrate
Initial Capital Investment (9 dosing stations – rough cost)	\$900,000	\$900,000	\$900,000
Annual Operations and Maintenance (O&M) Costs	\$186,500	\$260,900	\$383,500
20-year Present Worth	\$5,000,000	\$6,067,000	\$7,826,000

Table ii. Cost Estimates for Vapor-Phase Treatment Alternatives

	Biofilter (Engineered Media) at CS-6	Carbon at ST-S-3	Total Vapor Phase
Initial Capital Investment	\$1,585,000	\$2,764,000	\$4,349,000
Annual O&M Costs	\$7,000	\$48,000	\$55,000
20-year Present Worth	\$1,666,000	\$3,315,000	\$4,981,000

Non-Monetary Comparison of Mitigation Alternatives

The life cycle costs of liquid- and vapor-phase controls are of similar order of magnitude and therefore non-monetary attributes should be also considered. Table iii summarizes some of the non-monetary considerations.

Table iii. Non-Monetary Comparison of Liquid- and Vapor-Phase Controls

Control Type	Advantages	Disadvantages
Liquid Phase	<ul style="list-style-type: none"> Ferric chloride could be low cost solution, but only +/- 90% control. Will control odors/corrosion even when interceptor surcharges during storage and high flow rate conditions. 	<ul style="list-style-type: none"> Requires up to 9 dosing stations at each point in upstream communities where sewers drop into main interceptor; reliance on customer communities to maintain proper dosage consistently. Proper doing would be challenging; often overdosing is done, which results in higher costs. Chemical handling issue for ferric and peroxide.
Vapor Phase	<ul style="list-style-type: none"> Can keep negative pressures in large part of system with relatively low air flows/smaller, low-cost units because system is "tight" (i.e., sealed manholes). Easier to operate and control compared to liquid phase. Lower cost than liquid except maybe ferric (but ferric only controls to 90%). 	<ul style="list-style-type: none"> Will not control odors from areas that are "bottlenecked" during storage. Adding passive carbon at multiple sites would address this but would add cost and require site investigations. Will not provide 100 percent control during some short periods when stored wastewater is released because of high flow rates that must be overcome by control fans.

Conclusions and Recommendations

The H₂S present in the OMID interceptor sewer headspaces is due primarily to the turbulence caused at the numerous drops from shallower sanitary sewers into the deeper interceptor sewers. When wastewater is stored and released, the turbulence at the flow control structures during release causes very high peaks of H₂S, especially directly downstream of the flow control structures. The H₂S combined with positive pressures in the sewer headspace results in odorous emission from openings that have been the source of odor complaints for some locations. The sulfuric acid form on sewer walls from the H₂S can cause corrosion. Liquid phase and vapor phase mitigation alternatives were evaluated for odor and corrosion.

The following actions are recommended:

- Vapor phase control devices should be installed at ST-S-3 and CS-6. The cost of vapor phase control is less than liquid phase controls. Vapor phase controls also have non-monetary advantages. Carbon or other similar dry media is recommended for both locations. However, the other vapor phase technologies that were evaluated are also feasible and could be considered.
- During storage conditions, the recommended vapor phase control locations would not provide control in all areas due to headspace constrictions. Passive carbon could be installed at multiple upstream locations to address this but is likely not warranted due to the relatively low frequency of their use and the relatively low risk of complaints.
- The vapor phase controls will depressurize the sewers and odors will be effectively controlled. Corrosion will also be significantly mitigated especially for the main interceptor sewers. However, there may be localized corrosion at the drop connections and storage gates, especially for the parts of the sewer that are not wetted surfaces. This is because the wastewater that splashes on the sewer walls at the drop will tend to wash away the corrosive sulfuric acid. It is, however, difficult to estimate these highly localized H₂S concentrations and their corrosion impacts. It may be necessary to line some of these areas. It is recommended that, if feasible, one or more the drop areas be inspected to determine the extent of any corrosion and then a plan for lining specific areas could be developed based on that.
- The size of the recommended vapor phase devices is not large enough to depressurize the sewers for some storage and release events when the release rate is relatively fast and the stored wastewater volumes are relatively high. The vapor phase devices would have to be much larger and would be much more costly to be able to depressurize and treat all storage events.
- Several storage and release events per year could occur without any significant impact on the sewer life due to corrosion. The frequency of storage and release in upcoming years and its impact on sewer corrosion should be considered and discussed further in future system operations planning. Evaluations showed that if storage and release events were to be done frequently—such as every day—the pipe life could be significantly reduced.
- If I & I in the OMID interceptors and upstream collection systems continues to be reduced, the more concentrated wastewater will result in higher H₂S headspace concentrations that could cause a significant increase in odors and corrosion. The impacts of I & I reductions on odor and corrosion should be carefully considered.

Agenda Item No. 6

Present Engineering Work Order for
NTH Additional Design and CCA Services
For the New Hydraulic Control Gate for CS-9



Oakland-Macomb Interceptor Drain Drainage District

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

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

SUBJECT: Request for Approval of EWO for NTH Additional Design & Construction Contract Administration (CCA) Services on the New Hydraulic Control Gate for CS-9

DATE: February 10, 2020

We request a budget increase to NTH contract associated with the design of a new hydraulic gate for Control Structure No. 9. The reasons for this additional effort are discussed below.

Based on the projected overlapping work in the OMID and MID systems, which is expected to start in the fall of 2020, a new hydraulic gate is needed at Control Structure (CS) No.9. This gate is needed to allow for work to occur in the MID system without any backwater effects and to provide enough storage time in the OMID system upstream of the NESPS to allow for the repair work to occur in the NIEA. Currently, the gates at CS-5, when closed, utilize a large portion of the Romeo Arm to store flow. The MIDDD plans to reline this portion of the MID and the estimated start date is late summer of 2020. Also, the OMIDDD team plans on starting the first phase of the NIEA, which is located downstream of the NESPS, rehab work in early fall. Typically, CS-5, CS-6, CS-7 and CS-8 are used to store flow in order to allow for 8 to 10 hours of work to occur in the NIEA system. However, as previously mention CS-5 will not be fully utilized and therefore more storage will be needed. A gate at CS-9 will fill the gap to allow for sufficient flow control in both the MID and OMID systems.

Requested Action: Approve the attached Engineering Work Order to increase NTH Contract #2603 value by \$189,466 for additional design services associated with the new hydraulic control gate for Control Structure No. 9.



NTH Consultants, Ltd.

*Infrastructure Engineering
and Environmental Services*

*41780 Six Mile Road, Suite 200
Northville, MI 48168
248.553.6300
248.324.5179 Fax*

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

February 10, 2020
NTH Proposal No. 61-190439

Mr. Steven Downing, P.E.
Office of the Macomb County
Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036-1005

RE: Proposal to Provide Engineering Design Services
New Hydraulic Control Gate for Control Structure No. 9

Dear Messrs. Lockhart and Downing:

As requested, NTH Consultants, Ltd. (NTH) is pleased to submit this proposal to provide engineering services for the design of a new hydraulic control gate to be installed in the existing OMID Control Structure No. 9 (CS-9). The following sections present our understanding of the project background, our proposed scope of work, and the associated professional fees, terms, and conditions.

PROJECT BACKGROUND

CS-9 was constructed under Segment 1, Contract 1 of the OMID repair program. Its purpose was to provide sewer access and, if necessary, flow control to complete the repairs of the OMID sewers under the subsequent repair contracts (Contracts 3 and 4). The design of CS-9 was similar in nature to Control Structure No. 5 (CS-5), which was constructed under the same OMID Segment 1 repair contracts. While CS-5 was designed complete with a remotely-operated hydraulic control gate, CS-9 was designed such that the gate from CS-5 could be removed and installed within CS-9 should the need arise. Operation of the hydraulic control gate within the CS-9 structure would require use of a crane, as CS-9 was not constructed with the equipment or controls necessary for remote operation.

Based on recent discussions with you, we understand that OMIDDD desires to have CS-9 be retrofitted with its own remotely-operated hydraulic control gate to improve flow control capabilities and facilitate upcoming repair projects in the Macomb Interceptor Drain and the North Interceptor – East Arm concurrently.

SCOPE OF SERVICES

Based on the above understanding, we propose the following scope of services:



Project Management

We will provide project management to ensure the project will be completed within the required schedule. This will include detailed work planning and coordination among team members, conducting as-needed progress meetings with the Owner and team members to review work plan and schedule progress, identifying and tracking issues that require resolution during design, preparing monthly progress reports, and invoicing.

Document / Record Review

Document / record review services necessary to perform the proposed gate design will consist of the following tasks:

- ***Review Existing CS-9 Structure and CS-5 Gate Drawings:*** Since CS-9 was designed with the intent to house the hydraulic control gate provided for CS-5, we will review the design and as-built drawings and specifications for the CS-9 structure as well as the CS-5 gate and appurtenances, using them as the basis for the design of the proposed CS-9 gate.
- ***Review Existing Shop Drawings and Submittals:*** We will review the various shop drawings, submittals, and comments / responses from the original CS-9 and CS-5 gate construction to identify any issues that arose during fabrication and procurement of the CS-5 gate and appurtenances, as well as any design modifications that were proposed and approved through the submittal review process.
- ***Review Construction Documentation:*** We will review construction progress meeting minutes, correspondence during construction, and daily field reports relevant to the construction of CS-5 and CS-9 to identify any issues that may have arisen during construction of said structures, gate, and appurtenances.
- ***Review Flow Control Operation:*** We will review the information gathered in the above subtasks and discuss with the OMID Flow Control Manager to identify any operational or maintenance issues that arose during the use of the CS-5 gate for flow control purposes.

Field Investigation

Once our review of existing records is complete, we will perform a field investigation consisting of the following tasks:

- ***3D Dimensional Survey of CS-9:*** We will perform a 3D-scan survey to obtain precise dimensional information relevant to the design of the proposed gate and use the data obtained to confirm or correct the information on the as-built / record drawings. Due to atmospheric conditions inside the structure, we will not perform a manned-entry condition assessment of the CS-9 structure as part of this design project.



Design

Design services for the proposed gate will consist of the following:

- **Hydraulic Design:** We will perform an updated analysis of the OMID flow control system, considering the desire for concurrent work in the MID and the NI-EA, to determine the optimal height of the proposed gate and weir elevations for CS-9 to maximize available work time in the NI-EA while reducing impacts on work within the MID. This task will include a technical memorandum that will serve as the basis of design for the proposed gate.
- **Structural Design:** Based on the hydraulic requirements and the results of the 3D-scan described above, we will design modifications or repairs to CS-9 that are necessary for the installation, operation, and maintenance of the proposed gate.
- **Mechanical, Electrical, and I&C Design:** Based on review of the existing records and discussions with the OMID Flow Control Manager, we will design the mechanical, electrical, instrumentation, and control systems required to operate and maintain the proposed gate. This task will include a technical memorandum that will serve as the basis of design for the proposed gate.
- **Site Civil Design:** As part of this task, we will perform a topographic survey of the CS-9 site. The survey will include existing site appurtenances such as ITC towers, solar panels, existing manholes, gate access points, ground elevation as well as location and elevation of ITC lines. The site civil design will also include temporary as well as permanent access requirements and associated site civil details.
- **Contract Drawings and Specifications:** We will prepare Contract Documents based on the above designs for 90% design review and issued-for-bid packages. We will develop technical specifications based on the existing specifications for CS-5 and CS-9, with any modifications that are required based on our record review described above.
- **Engineer's Opinion of Probable Construction Costs:** We will develop an EOPCC at the 90% and issued-for-bid stages, based on the design drawings and specifications.
- **Permit Coordination:** We will meet with representatives of MDEQ regarding Part 41 permit application and ITC to discuss the proposed modifications to CS-9 and the associated construction and will assist OMID in procurement of any temporary construction easement or modifications to the permanent easement required.

Procurement Support

Based on discussions with you regarding the various lead time activities involved in the construction of the proposed gate and associated schedule delays, it may be beneficial to engage the Northeast Sewage Pump Station Construction Manager at Risk (CMAR) to procure this construction contract. As such, we did not include bidding assistance for a typical "design-bid-build" scope as part of this proposal; however, we have included internal coordination meetings during the design in which the CMAR could participate.



KEY PROJECT STAFF

For this project, NTH will serve as the prime design firm and will be responsible for the successful execution of the project. Saju Sachidanandan, P.E. will serve as Project Manager for the project and will provide oversight for all aspects for the project. Charles Roarty, P.E. will serve as Quality Control Manager. Key staff will also include Larry Gilbert, P.E. as lead Constructability Reviewer, and Abdalnasser Almadhoun, P.E., who will serve as lead Specification Engineer. To supplement our staff, we propose to include the following firms to assist in the required efforts:

FK Engineering Associates –FKE will run design coordination meetings, prepare construction cost estimation and assist on other permits and design needs. Fritz Klingler, P.E., will serve as Project Manager for FKE.

Applied Science, Inc. – ASI will be engaged to provide the flow control evaluations and hydraulic design tasks, as they have provided since the inception of OMID project. John Michalski, P.E. will be the Project Manager for ASI.

Anderson Eckstein and Westrick Inc. – AEW will perform the 3D dimensional survey, as well as site civil design tasks. Louis Urban, P.E. will serve as the Project Manager for AEW.

Metco Services, Inc. – Metco will perform the required Electrical, Mechanical, and Instrumentation and Control tasks associated with the design of the actuated gate structure. Raj Vijayendran, P.E. serve as the Project Manager for Metco.

PROFESSIONAL FEES

For the current effort, we have used the investigation and design engineering activities identified in the scope of services presented herein to develop an estimate of the effort required for each task and subtask. 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 following 2009 Contract with the OMIDDD Board. Based on the assumptions and proposed scope of services described above, our estimated fee is \$189,426. A detailed breakdown of the anticipated man hours for each of these tasks is provided in the attached work plan.

SCHEDULE

Based on our current workload and that of our team members, we are prepared to immediately start work on the project once we receive your approval. Assuming we receive authorization to proceed at the February 2020 OMIDDD Board meeting, we will complete the required investigation and 90% design efforts within 8 to 10 weeks from the notice to proceed date.



Messrs. Lockhart and Downing
February 10, 2020

TERMS AND CONDITIONS

Terms and conditions will be in accordance with our 2009 Contract with OMIDDD. We understand that if this proposal is acceptable to OMIDDD, that the work will be authorized in a forthcoming Engineering Work Order.

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

Sincerely,

NTH Consultants, Ltd.

A handwritten signature in blue ink, appearing to read 'Lawrence T Gilbert'.

Lawrence T Gilbert, P.E.
Senior Principal Engineer

A handwritten signature in blue ink, appearing to read 'Saju Sachi'. To the right of the signature is the word 'For:'.

Saju Sachi, P.E.
Principal Engineer

LTG/SS/mam

Attachment

PROJECT FEE ESTIMATING SHEET - DESIGN PHASE

Client Name: OMIDDD
Project Description: CS-9 Gate Design
L. Gilbert / S. Sachidanandan
Assumptions: See below

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

[illegible]



ANDERSON, ECKSTEIN & WESTRICK, INC.

CIVIL ENGINEERS SURVEYORS ARCHITECTS

51301 Schoenherr Road
Shelby Township, MI 48315

586.726.1234
www.aewinc.com

February 7, 2020

Mr. Saju Sachidanandan
Vice President
NTH Consultants, Ltd.
41780 Six Mile Rd., Suite 200
Northville, MI 48168

Reference: **Proposal for Professional Services**
Control Structure 9-Topographic/Scan Survey and Site Engineering Design
City of Warren

Mr. Sachidanandan:

Thank you for considering our firm for providing surveying and engineering services for the above referenced project.

Understanding of the Project

It is understood that the scope of the project is to remove the top of Control Structure 9, install a hydraulically actuated flow control gate, construct a control cabinet, install SCADA controls and extend an electrical service from 10 Mile Road to power the control cabinet. A site topographic survey and laser scan of existing Control Structure 9 is required to facilitate the design and installation of a new hydraulically actuated flow control gate. Construction of the gate will require an access road to the structure.

Services to be Provided

Based upon the survey limits in the attached C.033 drawing provided by NTH in an email dated January 24, 2020 and the aforementioned project understanding we offer to provide the following:

Site Topographic Survey

AEW will provide a topographic survey of the site limits as indicated on the attached C.033 drawing. In consideration of the potential for damage to the 10 Mile Road right of way from construction traffic/activities and the need to extend an electrical service to the site AEW will include the north 10 Mile Road right of way in within the ITC corridor limits as well as the north ROW to the west that includes the utility pole.

The topographic survey will include the location of all exiting site appurtenances including but not limited to the ITC towers, solar panel, OMIDDD manhole, control structure manholes, gate access ports, ground elevations on a 50 foot grid, along with the elevation and location of the ITC overhead lines.



Mr. Saju Sachidanandan
February 7, 2020
Page 2

Control Structure 9 Scanning

AEW will utilize the latest scanning technology to provide an accurate representation of the physical features for the interior of Control Structure 9. AEW will lower a Leica BLK360 scanner into Control Structure 9, this scanner will self-register each scan together during the scanning process. The point cloud will be exported to ReCap software for Civil 3D compatibility. The control structure can then be modeled for design use. Scanning technology will not penetrate fluid therefore flow control measures are required. Control Structure 5 and the North East Pump Station will need to be utilized to lower the water surface elevation in Control Structure 9 to expose the channel, gate guide channel and any other structure appurtenances typically submerged in flow.

Engineering Drawing Preparation

To facilitate the removal of the top of CS-9 and installation of the flow control gate a temporary/permanent access road from the existing concrete approach along 10 Mile Road to the structure is necessary. AEW will design a temporary and permanent aggregate access road to the control structure with considerations for crane location, overhead wire limitations, ITC requirements and control cabinet location. It is intended that the temporary and permanent access roads will be in the same location with some modifications for the permanent condition. The access road section will consist of geotextile fabric topped with limestone graded to match existing site elevations. The site sheet drainage flows north to an existing swale. Currently there is ponding at the structure and this swale will be proposed to be extended or the area re-contoured to better drain the site. Drawings will be provided to NTH for permitting and approval through local regulatory agencies.

Deliverables

AEW will provide the following:

- A site topographic survey drawing in AutoCAD format.
- A 3D scanned image along with drawings in AutoCAD format.
- Engineering drawings to include temporary and permanent aggregate roads, SESC measures, and restoration.

Additional Services Available

The following services are available but not included in this proposal.

- As-built field work and plan preparation
- Staking
- Contract administration



Mr. Saju Sachidanandan
February 7, 2020
Page 3

Services Not Provided

Material testing, environmental testing, geotechnical investigations, and wetlands delineation are outside the scope of services that AEW can provide. We will gladly coordinate these services when requested, to be performed by outside consultants as selected by the Client. All services provided by a sub-consultant of AEW will incur a seven and one half (7.5%) percent prime consultant markup.

- Environmental testing
- Materials testing
- Wetlands delineation

Responsibilities of the Client

AEW will require flow control assistance from NTH as previously described utilizing CS-5 and the NESPS. Access to the site is through a locked ITC gate requiring NTH assistance for ITC permissions and gate access.

Fee for Professional Services

The following fees will be on a lump sum (fixed fee) basis not to exceed

• Site Topographic Survey with drawings in AutoCAD format	\$ 3,900
• Control Structure 9 Scanning with drawings in AutoCAD format	\$ 5,700
• Temporary/Permanent access road drawings in AutoCAD format	<u>\$ 3,950</u>
Total	\$ 13,550

Any additional services will be provided on an hourly basis according to our rate schedule effective for the period in which the work is performed. We have attached our current hourly rate schedule as part of this proposal; this schedule is revised effective January 1 of each year and is considered an amendment to the proposal at that time.

Basis of Payment

Work in progress will be invoiced every four weeks (billing cycle) based upon hourly charges to date. Payment is due within twenty-eight days of invoice date, after which a time price differential charge of 1% per billing cycle (13% annually) will be added to the outstanding balance. There are no mileage expenses required. Travel time is charged portal to portal. Failure to pay invoices promptly can result in suspension of the work and revision of the completion schedule by the Engineer.



Mr. Saju Sachidanandan
February 7, 2020
Page 4

Please note that the fees quoted are for services completed within one year. If time beyond one year is required, an adjustment to the fees for the remaining portion may be made to reflect changes in cost of living, based on the Consumer's Price Index.

Other Terms of Service

Services provided by AEW under this contract will be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. Upon notice to AEW and by mutual agreement between the parties, AEW will correct those services not meeting such standard without additional compensation.

If the Client fails to make payment when due or is otherwise in breach of this contract, AEW may suspend performance of services upon five (5) calendar days' notice to the Client. AEW shall have no liability whatsoever to the Client for any costs or damages as a result of such suspension caused by any breach of this contract by the Client. No party to this agreement shall transfer, sublet or assign any rights under or interest in this agreement (including but not limited to monies that are due or monies that may be due) without the prior written consent of the other party(s).

In recognition of the relative risks, rewards, and benefits of the project to both the Client and AEW, the risks have been allocated such that the Client agrees that, to the fullest extent permitted by law, AEW's total liability to the Client for any and all injuries, claims, losses, expenses, damages, or claim expenses arising out of this agreement from any cause or causes, shall not exceed the greater of Fifty Thousand Dollars (\$50,000) or the compensation received by AEW under this agreement.

The Client or his authorized agent may terminate this agreement within five days written notice. The Client must pay for any unpaid work and expenses incurred prior to termination.

Execution of the Agreement

We trust that this proposal meets your needs. Please advise if any modifications or clarifications are required. When you are prepared to authorize us to proceed, please sign, date, and return one copy of this agreement with original signatures for our use.

We thank you once again for the opportunity to work with you on this project.



Mr. Saju Sachidanandan
February 7, 2020
Page 5

Sincerely,

Anderson, Eckstein and Westrick, Inc.

Accepted By

Mike A. Truax, PS
Senior Project Surveyor

Signature

Louis J. Urban, PE
Senior Project Engineer

Printed Name, Title

Signature

Enclosure: Current Hourly Rate Schedule

cc:

M:\0999\0999-0852\2020\LJU\Control Structure 9 NTH.docx

EXHIBIT "A"

HOURLY-BASE FEE SCHEDULE

PROFESSIONAL SERVICES

Where it is agreed that fees for services will be based upon the time worked on the project, such fees will be computed at the following rates:

<u>Classification Hourly Rate</u>	<u>2019 Rates</u>
Principal Engineer/Surveyor/Architect	\$171.00
Project Manager	\$167.50
Senior Project Engineer	\$157.00
Project Engineer/Project Surveyor/ Resident Project Representative	\$142.50
Operation and Maintenance Specialist	\$136.50
Graduate Engineer/Surveyor/Architect	\$117.50
Team Leader/Designer	\$117.50
Drafter/Technician	\$ 97.00
Clerical	\$ 47.00
One-person Survey Crew (Crew Chief) w/Truck and Equipment	\$167.50
Two-person Survey Crew (Crew Chief and Instrument Man w/Truck and Equipment)	\$229.50
Three-person Survey Crew (Crew Chief and Instrument Man and Assistant w/Truck and Equipment)	\$283.50
Three Person Sewer Crew	\$333.00
Four Person Sewer Crew	\$409.00
Construction Observer	\$ 97.00

If necessary, the Consultant would serve on litigation or as an expert witness at a rate of 1.5 times the current hourly rate.

These rates are inclusive of all overhead items that are normal business operations. No reimbursable for normal business operations will be allowed, i.e., mileage, faxes, phone bills, etc.

Hourly-Basis Fee Schedule to be adjusted beginning January 1, 2020.

Effective January 1, 2019.



Applied Science, Inc.
consulting engineering

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

January 16, 2020

Mr. Saju Sachidanandan, P.E.
NTH Consultants, LTD.
41780 Six Mile Road, Suite 200
Northville, Michigan 48168

**Re: Oakland-Macomb Interceptor Drain Drainage District (OMIDDD)
Scope and Estimate for providing Hydraulic, Mechanical, and Electrical Design
Services for CS-9**

Dear Mr. Sachidanandan,

Thank you for the opportunity for Applied Science, Inc. (ASI) to continue to provide you with engineering services for the above referenced project. Per request, we are submitting a proposal for design services associated with gate addition to CS-9. The requested services are to prepare design documents associated with providing hydraulic basis of design, mechanical associated with the gate operator, electrical and I&C to the site. As part of our scope, ASI will subconsult with METCO Services to complement the services required to complete the design.

The estimated budget for this requested work is as follows:

Applied Science, Inc. - \$30,831
Metco Services - - \$36,820

Total Budget Requested: \$67,651

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.
Vice President

Applied Science, Inc.

Engineering Services for
CS-9 Design

January 16, 2020

Labor Cost by Personnel Category

Task No.	Applied Science, Inc.									
	Principal Engineer @ \$165.00/hr		Senior Project Manager @ \$155/hr		Project Engineer @ \$100.00/hr		CADD Draftsman @ \$93.00/hr		Total	
	hrs	\$	hrs	\$	hrs	\$	hrs	\$	hrs	\$
1. Preliminary Design	2	330	20	3,100	40	4,000	10	930	72	8,360
2. 60% Submission	2	330	20	3,100	20	2,000	10	930	52	6,360
3. 95% Submission	2	330	20	3,100	20	2,000	10	930	52	6,360
4. 100% Submission	2	330	10	1,550	20	2,000	10	930	42	4,810
5. Meeting and Project Management	0	0	20	3,100	0	0	0	0	20	3,100
									Subtotal =	28,990
Total	8	1,320	90	13,950	100	10,000	40	3,720	238	28,990

ASI Estimated Fee = \$ 28,990

METCO Fee = \$ 36,820

5% = \$ 1,841

ASI Total = \$ 67,651

**METCO COST ESTIMATE
NORTHEAST SEWAGE PUMP STATION**

	Principal Engineer		Project Manager		QA/QC		Sr. Project Engineer-Elec		Sr. Project Engineer-I&C		Staff Engineer		Designer/Drafter		Admin.		TOTALS	
	Hr. Rate	\$ 240.00	Hr. Rate	\$ 175.00	Hr. Rate	\$ 250.00	Hr. Rate	\$ 145.00	Hr. Rate	\$ 155.00	Hr. Rate	\$ 105.00	Hr. Rate	\$ 90.00	Hr. Rate	\$ 65.00		
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
Design Phase																		
1.0 Preliminary Design	4	\$ 960.00	4	\$ 700.00		\$ -	8	\$ 1,160.00	8	\$ 1,240.00	8	\$ 840.00	8	\$ 720.00	4	\$ 260.00	36	\$ 4,720.00
2.0 60% Submission	8	\$ 1,920.00	8	\$ 1,400.00	4	\$ 1,000.00	16	\$ 2,320.00	12	\$ 1,860.00	24	\$ 2,520.00	28	\$ 2,520.00	4	\$ 260.00	88	\$ 11,480.00
3.0 QA/QC Workshop	0	\$ -	4	\$ 700.00		\$ -	4	\$ 580.00	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4	\$ 700.00
4.0 95% Pre-Final Submission	8	\$ 1,920.00	12	\$ 2,100.00	0	\$ -	16	\$ 2,320.00	10	\$ 1,550.00	24	\$ 2,520.00	36	\$ 3,240.00	8	\$ 520.00	98	\$ 11,850.00
5.0 Comment Resolution	2	\$ 480.00	2	\$ 350.00		\$ -	4	\$ 580.00	4	\$ 620.00	8	\$ 840.00	0	\$ -	4	\$ 260.00	20	\$ 2,550.00
6.0 100% Final Submission	2	\$ 480.00	8	\$ 1,400.00	4	\$ 1,000.00	4	\$ 580.00	8	\$ 1,240.00	4	\$ 420.00	8	\$ 720.00	4	\$ 260.00	38	\$ 5,520.00
TOTAL FEE - DESIGN PHASE	24	\$ 5,760.00	38	\$ 6,650.00	8	\$ 2,000.00	52	\$ 7,540.00	42	\$ 6,510.00	68	\$ 7,140.00	80	\$ 7,200.00	24	\$ 1,560.00	284	\$ 36,820.00

OAKLAND COUNTY WATER RESOURCES COMMISSIONER
One Public Works Drive Phone: (248) 858-0958
Waterford, Michigan 48328-1907

No. - _____

ENGINEERING WORK ORDER

FOR: OMID CS-9 Design

Amendment to Contract #2603 For Additional Engineering Design

TO: NTH Consultants, Ltd.

DATE: 2-10-20

Description

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the OMID CS-9 Design Project that falls under the aforementioned sections of Contract #2603. This EWO serves as your approval for compensation of the following additional services as delineated in NTH proposal February 6, 2020. NTH proposal is attached for reference.

As part of the Segment 1 Contract 1, CS-9 was constructed for the OMID repair program. Its purpose was to provide sewer access and flow control to complete the repairs of the OMID sewers under the subsequent repair Contract Nos. 3 and 4. CS-9 was designed such that the gate from CS-5 could be removed and installed within CS-9. A new remotely controlled gate at CS-9 will need to be used in conjunction with the CS-5, CS-3, CS-6, CS-7, and CS-8 gates to facility the construction, concurrently, of the OMID work in the NIEA and the MID work in the Romeo Arm along 15 Mile Road.

The scope of work needed to complete the project is as follows: document and record review; field investigation consisting of a 3D scan survey and topographical survey; design of the hydraulics, structural design of gate, modifications to the CS-9 structure, mechanical, electrical and instruction and control design. The project team will consist of NTH Consultants, Ltd., FK Engineering Associates, Applied Science, Inc., Anderson Eckstein and Westrick, Inc., and Metco Services, Inc.

Document/Record Review

The team will review the existing CS-9 structure and the CS-5 gate drawings as the basis of design for the new proposed CS-9 gate. The team will also review the existing shop drawings and submittals for the CS-9 structure and CS-5 gate. In addition, the team will review the flow control operation of the system to determine how the new gate will be incorporated into the overall system operational sequence.

Field Investigation

AEW will perform a 3D-scan survey to obtain precise dimensional information of the existing CS-9 structure relevant to the design of the proposed gate. In addition, AEW will perform a topographical survey of the CS-9 site to aid in site civil design.

Design

ASI will perform an updated analysis of the OMID flow control system, considering the designed for concurrent work in the MID and NIEA to determine the optimal height of the proposed gate and weir elevations for the CS-9 gate. This will include a technical memorandum that will serve as the basis of design for the proposed gate.

Based on the hydraulic requirements and the 3D-scan, NTH will provide structural modifications and/or repairs for the installation, operation and maintenance of the proposed gate. This will include design of the gate and modifications to existing roof panels for future maintenance.

Metco will design the mechanical, electrical, instrumentation and control systems required to operate and maintain the proposed gate. The task will include a technical memorandum that will serve as the basis of design for the proposed gate.

AEW will develop temporary and permanent access requirements and associated site civil designs. In addition, the team will develop drawings for temporary and permanent easements, as needed, to complete the work.

As part of the design, the team will develop Construction Documents based on the above design for 90% design review and Issued for Bid packages. A set of technical specifications will be developed for the CS-9 project based on the existing specifications for CS-5.

Engineer's Opinion of Probable Construction Cost

The team will develop estimated construction cost at the 90% design and the Issued for Bid stages.

Permits & Site Coordination

The team will meet with EGLE representatives to discuss the proposed gate installation, apply for and obtain a Part 41 permit. They will meet with ITC representatives to discuss the project. The team will assist OMID representatives in obtaining any temporary and permanent easements in order to complete the project.

Project Management

NTH and FKE will provide project management to ensure the project will be completed within the required schedule. This will include detailed work planning and coordination among the team members, conducting as-needed progress meetings with the Owner and team members to review work plan and schedule progress, identifying and tracking issues that require resolution during design, preparing monthly progress reports and invoicing.

Procurement Support

The team will work with the Construction Manager at Risk for the NESPS to procure this construction contract. This will expedite the construction schedule and allow for the work on the NIEA and the lower reach of the Romeo Arm in the MID to proceed without major delay.

Schedule

The team is prepared to immediately start work on the project once we receive approval. The expected schedule is to complete the field investigation and develop the 90% design drawings within 8 to 10 weeks.

Engineering Fees

The compensation for the above additional services is \$189,426 and the cost is broken down as follows:

Document/Record Review	\$2,284
Field Investigation	\$10,070
Design, Review Workshops, including Preparation of Contract Documents	\$142,992
Engineer's Opinion of Probable Construction Cost	\$4,543
Permits & Site Coordination	\$10,942
Project Management	\$18,595

Fees for this Engineering Work Order shall be billed on a time and material basis according to Contract No. 2603 standard fee and rate schedule. The total amount of the Engineering Services Agreement is to be increased by \$189,426. This amount is not to be exceeded without written authorization from the Oakland-Macomb Interceptor Drain Drainage District (OMIDDD) Board.

RECOMMENDED	DATE: 2/10/2020	ACCEPTED	DATE: 2/10/2020
<i>Evangelos Bantios</i>			
By:	Evangelos Bantios, P.E. Project Engineer OCWRC	By:	Keith Swaffar, P.E. Chairman NTH Consultants, Ltd
APPROVED		APPROVED	
DATE:		DATE:	
By:	Stephen Downing Construction & Maintenance Manager MCPWO.	By:	Sid Lockhart, P.E. Special Projects Manager OCWRC
APPROVED			
DATE:			
By:	Steve Korth, P.E. Manager OCWRC		
Approved by Drainage Board on:			

Agenda Item No. 7

Present Construction Estimate No. Six for
CSM Mechanical, LLC

OAKLAND MACOMB INTERCEPTOR DRAIN DRAINAGE BOARD
For Construction of the Odor / Corrosion Control System- Northeast Sewage Pumping Station
Located in the City of Detroit, Wayne County, Michigan
Project ID 100000002708

Regular Construction Estimate Number Six

January 1, 2020 through January 31, 2020

Department No.:	6010101	Account No.:	731472
Fund No.:	84915	Program No.:	149015
Project No.:	295117	Activity:	FAC

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

Contract No. # 5777

Date of Contract:	July 3, 2019
Final Completion Date:	September 27, 2020
Extended to:	N/A

Original Contract Amount:		\$3,783,390.00
Previous Change Orders:	CO 1 & 2: \$128,523.62	\$128,523.62
Change Orders This Estimate:	CO 3: \$26,349.16	\$26,349.16
Total Net Change Orders:		\$154,872.78
Adjusted Contract Amount:		\$3,938,262.78
Sub-Total To Date:		\$3,938,262.78
Less Deductions:	None	
Gross Estimate: (Work in Place)	40.2 % Complete	\$1,583,339.54
Less Amount Reserved (10% of Gross Est.)		\$158,333.95
Total Amount Allowed To Date:		\$1,425,005.59
Less Previous Estimates:		\$1,103,680.44
Net Payment Request To Be Paid To Contractor:		\$321,325.15
Reserve Payment to Contractor		
Balance of Contract to Date: \$2,354,923.24	Accounting Auditor:	
Amount To Be Reserved (From Above)		\$158,333.95
Less Previous Transfers To Reserve:		\$122,631.16
Amount of Current Transfer:		\$35,702.79

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

Date: 2-10-2020

FOR Recommended by: Jason Matteo
Jason Matteo, P.E.; Jacobs

Date: 2/11/2020

Recommended by: Evans Bantios
Evans Bantios, P.E. Oakland County WRC

Date: 2-10-2020

Recommended by: Stephen Downing
Stephen Downing, P.E.; Macomb County OPWC

Date: 2-10-2020

Approved for Payment by: _____
Sid Lockhart, P.E.; Special Projects Manager, Oakland County WRC

Date: _____

Regular Construction Estimate Number Six

Approved By Board On: _____

Agenda Item No. 8

Report/Update – Status of OMI Project,
Segments 1 through 4, NESPS

Oakland Macomb Interceptor Drain (OMID) Repairs

Project Progress Update

Prepared by:

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

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

February 19, 2020 OMIDDD Board Meeting

The following provides a status update as of the writing of this report (February 11, 2020) for the work completed for the Oakland-Macomb Interceptor Drain Repair Program (SRF Segments 1-4; Contract 7 PCI-4 repairs; Maintenance Repairs in PCI-5 through PCI-11A; Control Structure Modifications; NIEA Repairs; NESPS Upgrades; Odor/ Corrosion Control System, and other related work):

SRF Segment 1 Status:

Contracts 1&2 – Complete

System-wide Odor/Corrosion Study – Ongoing:

Engineering Consultant: Jacobs Engineering

Project Budget Summary:

- | | |
|--|--------------|
| • Original Project Budget (including Fan Testing Allowance of \$60,000): | \$383,789.00 |
| • Total Spent (through January 2020): | \$354,629.06 |
| • Remaining Budget (through January 2019): | \$29,159.94 |

Milestone Schedule Summary:

- Draft report including previously prepared tech memos, detailed model results, conceptual layouts, opinions of costs, and recommendations was delivered in January 2020.

Status of Major Project Tasks:

- Continued to advance conceptual design of vapor-phase odor/corrosion control alternatives.
- Finalized WATS sewer process model and AERMOD air dispersion modeling for drop connections with internal drops and existing CS-6 carbon units, respectively.
- Coordinated with OMIDDD representatives to incorporate review comments on draft report.
- Presentation of major findings and conclusions of study report to OMIDDD Drain Board planned on February 19, 2020.
- Preparation of final report ongoing and will be completed and submitted prior to next Board meeting.

SRF Segment 2 Status:

Contract 3 (Base Contract) – Complete, Closeout Pending

Construction Amt Invoiced: \$18,011,426.41, as adjusted by C.O. 11.

Schedule Status: Complete July 31, 2014; Overall Contract closeout will be combined with closeout for NESPS Discharge Chamber Emergency Repairs (CO 2-E, et al).

February 19, 2020 OMIDDD Board Meeting

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

Construction Amt Invoiced: \$5,151,543.52 Invoiced to date including Change Order 2E through 2J.

Schedule Status: Substantially Complete on 11/25/17, with additional Gatehouse lining work performed under Change Order 2-I and completed on March 31, 2019

- East side Tnemec repairs are complete; west side repairs remain delayed as a result of Pump 1 damage related to an electrical fire on 3/9/2019. On 1/21/2020, GLWA and its subcontractor performed a test run on Pump No. 1 which resulted in abrupt stoppage after 10 seconds of run time. Further assessment of damage is required, and coordination with GLWA is ongoing for those efforts. Tnemec Repairs are currently on hold pending condition assessment of Pump No. 1 and required repairs.

SRF Segment 3 Status:

Contract 4: Complete

SRF Segment 4 Status:

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

Construction Amount Invoiced (C5A/B): \$11,865,520.08 corresponding to 100% of the revised final contract amount, through 6/30/17.

Schedule Status: Completed 12/31/16, on time, based on revised completion, as established by Change Order.

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

Contract 6 – Complete, Administrative Closeout Pending:

Construction Amt Invoiced (C6): \$3,172,793.60 corresponding to 100% of the revised final contract amount, through 12/31/2016.

Schedule Status: Completed on 12/31/16, on time, based on final negotiated schedule, as established by Change Order.

Contract 7 (NIEA Emergency Rehab) – Complete

February 19, 2020 OMIDDD Board Meeting

NESPS Odor/Corrosion Mitigation System (No Contract Number)

Engineering Consultant: LG Design, Inc. (subsidiary of Jacobs Engineering)

Prime Construction Contractor: CSM Mechanical, LLC

Project Budget Summary:

- | | |
|---|----------------|
| • BioAir Solutions, LLC for Bio-Trickling Filter (BTF) Fabrication: | \$ 816,570.00 |
| • CSM Mechanical, LLC (General Construction Contractor): | \$3,938,262.78 |
| • Jacobs (Design and CA/RPR) Budget (per EWO #3): | \$1,272,470.46 |
| • Remaining Jacobs Budget (through January 2019): | \$ 420,701.28 |

Milestone Schedule Summary:

- Notice-to-Proceed letter sent to CSM on August 1, 2019.
- Installation of BTF at NESPS Substantial Completion per Contract: February 6, 2020.
- BTF Acclimation, Start-up and Testing: Spring/Summer 2020.
- HVAC Improvements Substantial Completion: July 28, 2020.
- Project Final Completion: September 27, 2020

Status of Major Project Tasks:

- Weekly Construction Progress Meetings continue with CSM Mechanical, LLC and other project stakeholders including OMIDDD representatives, CSM key staff, GLWA and Jacobs.
- BioAir Solutions has fabricated and delivered all the major bio-trickling filter (BTF) components. The BioAir VFD cabinets and control panel were installed by CSM in early January, 2020.
- CSM has completed concrete driveway demolition, excavation for BTF foundation and final concrete pours for the bio-trickling main foundation pad and associated duct supports. CSM has completed the Odorous Duct support foundations and light pole bases, and structural steel support columns have been installed.
- CSM has completed installation of water supply and drain lines on the exterior of the biotrickling filter vessel, and installation of water supply and drain lines to equipment connections are ongoing inside the station. Coring of the gate house wall has been completed and underground HDPE duct installation is now complete. Work on the above ground portion of the odorous air duct will commence upon the delivery arrival of the FRP duct work, currently scheduled for early March, 2020.
- Additional electrical installation activities are ongoing inside the station to provide power to various components of the new biotrickling filter and HVAC systems. Conduit and wiring installation activities are focused on the biotrickling filter components, however minimal HVAC conduit and wiring is also underway.
- Demolition crews have removed the existing dry well Supply Fans and support frames (# 1 and # 2) in preparation for dismantling and scrap recycling. A temporary fan arrangement is now installed to provide ventilation for crews working on other tasks within the Wet Well confined space. Scaffolding has been erected inside the wet well and demolition of the existing duct work on the west side has been completed. Installation of fabric duct material will commence in mid-February, and once complete, the scaffolding will be disassembled and relocated to the east side of the wet well. Specialized Confined Space emergency rescue crews provided by the General Contractor continue to support the wet well work when elevated scaffolding operations are in progress,

February 19, 2020 OMIDDD Board Meeting



Installation of BioAir VFD cabinets and control panel; Additional water and drain pipe installation along the biotrickling filter vessel.



Demolition of existing duct work on the west side of the wet well; HDPE and FRP duct work arrived on site ready for installation.

- Demolition has been completed of new openings in Fan Room Nos. 1 and 2 for future installation of motorized dampers in conjunction with new drywell supply fans. New motorized dampers have been installed in the wall between each fan room and the main pump room. CSM has begun

February 19, 2020 OMIDDD Board Meeting

installation of round spiral industrial aluminum duct work in the southwest corner of the station and is approximately 90% complete. Once complete, a new dry well supply fan #1 will be installed and made operable; demolition will commence in fan room #2 in preparation for new rectangular industrial aluminum duct work.

- Potential addition of NESPS LED lighting in the wet well is currently being evaluated and coordinated with CSM. A field order to add a water service control valve and gate well outside the station has been sent to CSM and installation was completed in late January 2020. A temporary bypass water line to feed make-up water to the station pumps is now complete, and the permanent waters service, including a new gate valve and well, is complete. Crews have completed demolition of the existing 6-inch domestic water piping and installation of new ductile iron water pipe is ongoing. Crews have relocated two fire hydrants adjacent to the pumping station in preparation for driveway realignment. Work is also underway on preliminary rough grading for the site roadway pavement; actual final base and concrete paving work will be suspended until Spring.
- CSM indicated in the January schedule update the biotrickling filter substantial completion date will be delayed by approximately 1 month beyond the contractual date of February 6, 2020. Discussions continue with CSM to review options for a recovery plan, noting that the Bio Filter Substantial Completion date is now projected by the Contractor for mid-April, 2020
- CSM is preparing an updated comprehensive project Health and Safety Plan and will submit, with revisions, to OMIDDD and Jacobs.
- DTE-Mich Con is has completed installation of a new gas service, meter upgrade and manifold at the NESPS, which allows for increased output for the Heating Unit Nos. 1 and 2 and additional future capacity as required for additional heating equipment.

Summary of OMID Construction Contract Status:

Seg. No	Contract No. (Description)	Const. Comp?	As-Builts Final?	Balancing Change Order?	Contractor Closed Out?	Easements Settled?
1	Contract 1 (CS-9, 5, 3)	Y	Y	Y	Y	Y
1	Contract 2 (CS-6, 7, 8)	Y	Y	Y	Y	Y
2	Contract 3 (Gatehouse)	Y	Y	Y*	N*	N/A
2	Contract 3 (Grouting PCI-5 thru 8)	Y	Y	Y	N*	Y
3	Contract 4 (Lining PCI-5 thru 8)	Y	Y	Y	Y	Y
4	Contract 5 (Lining PCI-9, 10A/B)	Y	Y	Y	Y	N
4	Contract 6 (Lining PCI-11A)	Y	Y	Y	Y	Y
N/A	Contract 7 (Lining 110' of NIEA)	Y	Y	Y	Y	N/A
N/A	Odor/Corrosion Control System	N	N	N	N	N/A

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

February 19, 2020 OMIDDD Board Meeting

Transfer of NESPS & NIEA Maintenance & Repairs Status:

Amt Invoiced: \$216,823 thru 12/31/2019 out of current \$353,000 ASI engineering budget;

Schedule Status: Transfer Complete; follow-on tasks ongoing

- GLWA/OMIDDD technical issues are mostly resolved and/or plan is in place.
- Sanitary Pumps #2, #4, #5 and #6 ready for duty. (500 CFS Capacity)
- Sanitary Pump #2 Packing Gland Seal replaced under normal wear and tear by Kennedy
- DTE installed new 2-inch service line and 16 M meter manifold on 2-5-2020. Dunbar Mechanical applied start-up and fine tune adjustments to HVAC heating units.
- New service water main is in final stages of completion. Coordinated efforts with GLWA/DWSD in locating stop boxes and gate wells. Loop drawings require updating.
- PM Technologies along with GLWA and METCO conducted routine start-up exercise of the generator using the existing PLC. PLC functioned as designed except for a minor alarm.
- METCO has summarized in an email-report to OMIDDD on the current state of the existing PLC related to age and support. The report provides basis for replacement which has been done by GLWA at most if not all of their stations. A quote for replacement has been submitted to OMIDDD.
- Sanitary Pump No. 1 remains out of service. On 1/21/202 GLWA and its subcontractor performed a test run which resulted in abrupt stoppage after 10 seconds of run time. Stoppage was accompanied by arcing, smoke, and mechanical noise.
 - GLWA stated that an inspection of the pump to determine extent of damage would cost in range of \$25,000 to \$50,000. At the request of OMIDDD, GLWA is proceeding with having an inspection performed, some cost sharing by OMIDDD is expected.
- Sanitary pump No. 5 and No. 6 have monthly preventative maintenance services scheduled for 2/18/202 in coordination with switchgear battery maintenance. Work to be performed by Motor City Electric.
- Monthly maintenance and inspections completed on the Dry Well elevator. No issues to report.
- Drawings submitted for review on elevator signal fixtures as part of re-modification. METCO to review.
- Quote on Wet-Well re-modification submitted to OMIDDD.

February 19, 2020 OMIDDD Board Meeting

OMID Control Structure Upgrades Status:

Amt Invoiced: \$30,400 to date; Total design and construction budget currently established as \$500,000 (including contingencies and admin/legal).

Schedule Status: Engineering/Design efforts complete; CSM approved by OMIDDD Board on 11/20/19. Kickoff Meeting held 1/8/2020

- MCE has drafted Programmable Logic Controller (PLC) changes for gate operation; ASI testing to be completed once access and position indicators are repaired (4/1/20).
 - MCE provided report for Communication Upgrades at CS-5, 6, and 8; to be incorporated into the upgrades work.
 - Level sensor upgrades (design/installation) are to be completed once access is completed.
 - FKE has completed design set for Control Structure modifications at CS-5, CS-6, and CS-7.
 - CSM has begun procurement of long lead time items (East Jordan Access Hatches and Precast Concrete Risers).
 - With respect to CS-5, HESCO has indicated that Gate #1 indicator probe and closed limit switch replacements remain contingent on top slab hatch modifications. Work scheduled for spring 2020. Gate #2 hydraulic hose ruptured during storage operations Jan 3rd, that has since been replaced. Gate #2 position status fluctuates erratically and is being investigate by MCE/HESCO. Condition determined to be either compromised wire connections of failing transducer. HESCO scheduled to repair on 2/11/2020. Comcast completed construction tasks for modem installation on 1/30/2020.
 - With respect to CS-6, HESCO previously installed a Siemens LR radar unit on the upstream side of the storage gate. OMID approved quote for permanent installation of the unit. The unit has performed well and is recommended by METCO to be used to replace the existing sensors in all structures. CS-6 is functional but in various stages of deterioration per HESCO condition assessment. Most components are at end of life status. Critical spare parts and long lead items are a subject of attention. HESCO has developed an inventory list.
 - With respect to CS-7, both SCADA PLC and Rodney Hunt PLC faulted resulting in delay of storage operations for MID grouting operations. This was a rare occurrence as reported by MCE and will continue to be monitored.
 - Hesco reports that CS-8 is functional but in various stages of deterioration per HESCO condition assessment. Most components are at end of life status. Critical spare parts and long lead items are a subject of attention. HESCO has developed an inventory list.
- The **draft** line item schedule and budget are summarized:

Work Item/ Milestone		Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractors)	Estimated Delivery Date
1	Draft PLC Mods by Metco, MCE, ASI			5/8/2019
2	Field Investigations (roof measurements, etc.)		TBD	5/30/2019
3	CS level sensors design (Metco)		TBD	7/29/2019

February 19, 2020 OMIDDD Board Meeting

4	Comm. System Improvements (Metco)		TBD	8/31/2019
3	Test and implement			4/1/2020
4	50% Design Package			6/20/2019
5	95%, 100% Design Package			9/9/2019
6	Receive Bid(s) for cover mods			11/10/2019
7	Contract Award and NTP for cover mods			12/10/2019
8	Subtotal – Design	\$9,000 (ASI)		
9	PCI-5 Gate Repairs and final install of level sensors	TBD	TBD	3/31/2020
10	Substantial Completion of Construction			5/1/2020
11	Final Testing and Approval of PLC Mods	TBD	TBD	5/1/2020
12	Final Completion of Construction	\$11,000 (ASI)	\$300,000 (est.)	5/15/2020

OMID System Immediate Repairs Status:

Amt Invoiced: \$40,473 out of original total design budget of \$21,418; Total design and construction budget currently is established as \$1,352,801 (including contingencies and admin/legal).

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

- Doestch Enivronmental was awarded the contract to perform the work at the November Board Meeting.
- Field work to begin mid-February.
- The current **draft** line item schedule and budget for the OMID System Immediate Repair Project are summarized below:

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

February 19, 2020 OMIDDD Board Meeting

NIEA Repairs (Study and Design/Construction)

Amt Invoiced: \$752,233 out of currently projected study/design budget of \$2,331,800; Total design and construction budget currently is \$44,100,000 (including contingencies and admin/legal).

Schedule Status: Field investigations/Engineering/Design efforts are underway; Study 100 percent complete; design approximately 55 percent complete.

- Liner data collection and presentation tasks have been completed. A few linings are short-listed for further consideration in the RFTS as well as basis of design for repair of the deteriorated sections of the NI-EA. RFTS report under final review.
- A workshop was held with GLWA representatives to discuss the Basis of Design in January 2020. More coordination meetings are coming in the near future. GLWA is supportive of the general approach for the project.
- The aerial survey of the interceptor alignment is complete. The survey crews have recorded the manhole elevations as well as control points necessary to compliment the aerial survey. Additional surveys were performed at proposed shaft locations.
- Design is progressing towards next submittal – 90% design.
- Environmental report complete.
- MASW report complete.
- Geotechnical exploration boring locations have been identified based on MASW data. City of Detroit and Wayne County access permit coordination and field investigation ongoing.
- Conducted a workshop to discuss potential shaft location in PCI-4 reach. GLWA/MDOT access permit coordination is underway for geotechnical investigation.
- A preliminary hydraulic model has been run to evaluate flow control in PCI-4 and PCI-19 during rehabilitation efforts. A draft memorandum was issued to the OMIDDD for review.
- Permit coordination with municipal agencies are ongoing – City of Detroit, Wayne County, GLWA, and MDOT.

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

Work Item/ Milestone		Estimated Budget Expenditure (Engineering)	Estimated Budget Expenditure (Contractor)	Estimated Delivery Date
1	Lining Study Evaluations & Draft Report			6/15/2019
2	Lining Study Final Report			10/30/2019
	Subtotal - Study	\$126,744		
3	Field Investigations (MASW, SUE, Survey, Geotech, Env. Inv)			10/30/19
4	Basis of Design Draft			9/30/2019
5	50% Design Package			8/30/2019
6	95%, 100% Design Package			5/4/2020
7	MDEQ Submittal (Part 41)			5/4/2020
8	Issued for Bid			6/5/2020

February 19, 2020 OMIDDD Board Meeting

9	Bid Opening			7/22/2020
10	Contract Award and NTP			8/20/2020
	Subtotal - Design	\$2,205,063		
11	Final Completion of Construction	\$3,200,000	\$32,000,000	12/1/2022

NESPS Electrical and Mechanical Rehab

Budget Status: \$591,896 out of current design budget of \$1,319,275; Total design and construction budget currently established as \$39,300,000 (including contingencies and admin/legal).

Schedule Status: Engineering/Design efforts underway; approximately 60% complete.

The design team is working on the 60% design package for review with the CMAR. With this effort, the following work is active:



- Pump and Motor size confirmation complete and review of approved manufacturer pump selections continues. Additional data is requested from pump vendors on motor type and sizing.
- Design and CMAR Team met with suppliers to review pump and motor selections.
- Design and CMAR Team met with gate and actuator supplier to advance the first package of work.
- Electrical gear design and sizing for new electrical building is ongoing.
- Architectural detailing of building is ongoing.
- HVAC and plumbing design are ongoing.
- Site layout and improvements design, including updated security requirements, ongoing.
- Site plan was developed for site plan review and permitting.

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- A review of alternative energy saving methods remains ongoing.
- Specifications for 60% design are in progress.
- The Design team and Walsh are working together to develop a sequence of construction, schedule, and design package arrangement. The schedule will be driven from this sequence being developed.
- Conducted a coordination meeting with GLWA to discuss advance of the design and construction program.
- Conducted further site visits to inspect the existing conditions of the equipment to assess replacement needs.
- Added a new task to design the replacement of the existing NESPS building roof as part of the overall rehabilitation package.

Emergency Contingency Plan is being developed for pumping operations in the event of total power loss at NESPS or other catastrophic failure in the system:

- An Interim plan has been established and potential upstream emergency pumping locations identified. Drawings issued for procurement of contractor.
- Working on plan to energize (by temporary power) OMID Pump 4 in event of total power loss. Motor City is finalizing a quote to perform the work.
- Working to incorporate use of media and community communication in the event of emergency.

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

Work Item/ Milestone		Estimated Budget	Estimated Budget	Estimated Delivery Date
1	Draft Basis of Design			5/3/2019
2	Final Basis of Design			5/31/2019
3	30% Design			8/27/2019
	CMAR RFP			10/16/2019
4	60% Design			12/19/2019
	CMAR Recommendation			11/20/2019
5a	90% Equipment Procurement			3/15/2020
	Suction Gate Rehab			TBD
	Site Plan/Foundation			TBD
	Pumping Units			TBD
	Major Electrical			TBD
7	MDEQ Submittal (Part 41 Permit)			4/8/2020
8	Issued for Bid – Final			4/15/2020
9	Notice to Proceed			6/1/2020
	Subtotal - Design	\$1,519,275 (including		
10	Substantial Completion	\$2,500,000 (est.)	\$25,000,000 (est.)	3/1/2022
11	Final Completion	\$500,000 (est.)	\$5,000,000 (est.)	12/1/2022

Agenda Item No. 9

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

YTD Trial Balance**Fund: 84912 Oakland Macomb InterceptorSeg1****As of Fiscal Period: Month 5, 2020**

Run By: WRC_REPORTING

Run: 02/12/2020 at 01:47 PM

Scope: 84912 Oakland Macomb InterceptorSeg1

ACCOUNT		YTD Balance Total Fund	OMID Odor- Corrosion Study Seg1 100000002892	YTD Balance All Grants
100100	Cash - Operating	76,878.80	76,878.80	76,878.80
104100	Accrued Interest on Investment	653.22	653.22	653.22
	Revenues	(1,203.44)	(1,203.44)	(1,203.44)
	Expenditures	29,707.10	29,707.10	29,707.10
	Special Items- Uses	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(106,035.68)	(106,035.68)	(106,035.68)
		0.00	0.00	0.00

SRF final draw received September 2013

Cash as of 01/08/2020	\$	76,878.80
Invoices / Reimbursements on Current Agenda Impacting Cash Balance		(41,139.98)
Total Net Cash Balance	\$	<u>35,738.82</u>

Water Resources Commissioner
PROJECT WORK IN PROGRESS
OMID Odor-Corrosion Study Seg1
100000002892
 (as of February 12, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
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STD - Standard Operation

730639 - Engineering Services-Other	0.00	313,489.08	
Standard Operation TOTALS			
383,789.00	0.00	313,489.08	\$70,299.92

Project 100000002892 - OMID Odor-Corrosion Study Seg1			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$383,789.00	\$0.00	\$313,489.08	\$70,299.92
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
655077-Accrued Interest Adjustments	\$37.32	\$653.22	
655385-Income from Investments	\$132.69	\$6,578.88	
695500-Transfers In	\$0.00	\$266,792.12	
697551-Issuance of Bonds	\$0.00	\$116,996.88	
TOTAL REVENUE	\$170.01	\$391,021.10	
REVENUE OVER/(UNDER) EXPENSES		\$77,532.02	

YTD Trial Balance**Fund: 84914 Oakland Macomb InterceptorSeg3****As of Fiscal Period: Month 5, 2020**

Run By: WRC_REPORTING

Run: 02/12/2020 at 01:48 PM

Scope: 84914 Oakland Macomb InterceptorSeg3

ACCOUNT		YTD Balance Total Fund	Oakland Macomb InterceptorSeg3 100000001557	YTD Balance All Grants
100100	Cash - Operating	24,819.08	24,819.08	24,819.08
104100	Accrued Interest on Investment	(343.75)	(343.75)	(343.75)
143100	Prepaid Expenses	891.00	891.00	891.00
211100	Due to Primary Government	(25.79)	(25.79)	(25.79)
	Revenues	(242.84)	(242.84)	(242.84)
	Expenditures	1,050.96	1,050.96	1,050.96
	Special Items- Uses	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(26,148.66)	(26,148.66)	(26,148.66)
		0.00	0.00	0.00

Cash as of 01/08/2020 \$ 24,819.08

Invoices / Reimbursements on Current Cash Balance 0.00

Total Net Cash Balance \$ 24,819.08

Water Resources Commissioner

PROJECT WORK IN PROGRESS

Oakland Macomb InterceptorSeg3

10000001557

(as of February 12, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
ADM - Administration				
730772 - Freight and Express		0.00	237.38	
730926 - Indirect Costs		0.00	87,973.15	
730940 - Insurance		0.00	374,816.24	
731521 - Public Services		0.00	72,238.27	
732018 - Travel and Conference		0.00	160.44	
771638 - Drain Equip Labor		0.00	216,953.03	
771639 - Drain Equipment		0.00	19,268.57	
Administration TOTALS				
	460,138.00	0.00	771,647.08	(\$311,509.08)
CONT - Contingency				
Contingency TOTALS				
	4,581,277.00	0.00	0.00	\$4,581,277.00
ENG - Engineering				
702000 - Salaries		0.00	37.74	
722000 - Fringe Benefits		0.00	-25.90	
730772 - Freight and Express		0.00	85.13	
731346 - Personal Mileage		0.00	528.54	
731521 - Public Services		0.00	41,759.18	
732018 - Travel and Conference		0.00	5,546.06	
750140 - Employee Footwear		0.00	75.00	
771638 - Drain Equip Labor		0.00	617,074.94	
771639 - Drain Equipment		0.00	62,227.49	
Engineering TOTALS				
	1,063,145.00	0.00	727,308.18	\$335,836.82
ENGCON - Engineering Consultant				
730639 - Engineering Services-Other		0.00	12,856,549.06	
730940 - Insurance		0.00	2,435.63	
731458 - Professional Services		0.00	62,241.27	
Engineering Consultant TOTALS				
	12,471,892.00	0.00	12,921,225.96	(\$449,333.96)
FAC - Facility Acquisition				
731472 - Project Construction and Impr		0.00	50,234,735.34	
731521 - Public Services		0.00	2,240.68	
Facility Acquisition TOTALS				
	45,738,545.00	0.00	50,236,976.02	(\$4,498,431.02)
FRINGE_BENEFITS - Fringe Benefits				
722000 - Fringe Benefits		0.00	25.90	
Fringe Benefits TOTALS				
	0.00	0.00	25.90	(\$25.90)
INS - Inspection				
731521 - Public Services		0.00	37,329.11	
Inspection TOTALS				
	330,221.00	0.00	37,329.11	\$292,891.89
LEGAL - Legal and Financial				

Water Resources Commissioner
PROJECT WORK IN PROGRESS
Oakland Macomb InterceptorSeg3
100000001557
 (as of February 12, 2020)

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

ROW - Right of Way

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

Project 100000001557 - Oakland Macomb InterceptorSeg3			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$68,393,724.00	\$0.00	\$68,539,108.42	(\$145,384.42)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$3,253,724.00	
631827-Reimb General	\$0.00	\$43,882.94	
655077-Accrued Interest Adjustments	\$9.50	(\$343.75)	
655385-Income from Investments	\$33.77	\$127,185.77	
697753-State Revolving Fund Loans	\$0.00	\$65,140,000.00	
TOTAL REVENUE	\$43.27	\$68,564,448.96	
REVENUE OVER/(UNDER) EXPENSES		\$25,340.54	

YTD Trial Balance
Fund: 84915 Oakland Macomb InterceptorSeg4
As of Fiscal Period: Month 5, 2020

Run By: WRC_REPORTING
Run: 02/12/2020 at 01:48 PM
Scope: 84915 Oakland Macomb InterceptorSeg4

ACCOUNT		YTD Balance Total Fund	Oakland Macomb InterceptorSeg4 100000001913	NESPS Pump Install Seg4 100000002041	OMI NESPS GATEHOUSE SEG4 100000002232	NESPS Odor Corrosion Study Seg4 100000002708	YTD Balance All Grants
100100	Cash - Operating	4,381,320.15	4,124,279.32	7,978.67	41,613.28	207,448.88	4,381,320.15
104100	Accrued Interest on Investment	46,813.79	46,813.79	0.00	0.00	0.00	46,813.79
201210	Vouchers Payable AP Cont	(79,615.00)	0.00	0.00	0.00	(79,615.00)	(79,615.00)
211100	Due to Primary Government	(18,184.39)	(12,400.01)	0.00	0.00	(5,784.38)	(18,184.39)
	Revenues	(51,993.01)	898,006.99	0.00	0.00	(950,000.00)	(51,993.01)
697551	Issuance of Bonds	0.00	1,050,000.00	0.00	0.00	(1,050,000.00)	0.00
	Expenditures	1,146,023.35	17,647.23	0.00	39,399.56	1,088,976.56	1,146,023.35
	Special Items- Uses	0.00	0.00	0.00	0.00	0.00	0.00
382100	FB Committed for Capital Proj	(5,424,364.89)	(6,124,347.32)	(7,978.67)	(81,012.84)	788,973.94	(5,424,364.89)
		0.00	(0.00)	0.00	0.00	0.00	0.00

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

Cash as of 01/08/2020	\$	4,381,320.15
Invoices/Reimbursements for Seg 4 on Current Agenda impacting Cash Balance		0.00
Invoices/Reimbursements for NESPS Gatehouse on Current Agenda impacting Cash Balance		(1,898.24)
Invoices/Reimbursements for NESPS NIEA-East Arm on Current Agenda impacting Cash Balance		(974.00)
Invoices/Reimbursements for NESPS Odor Corrosion Study on Current Agenda impacting Cash Balance		(225,276.35)
Total Net Cash Balance	\$	<u>4,153,171.56</u>

Water Resources Commissioner

PROJECT WORK IN PROGRESS

Oakland Macomb InterceptorSeg4

100000001913

(as of February 12, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
ADM - Administration				
730926 - Indirect Costs		0.00	59,001.44	
730940 - Insurance		0.00	67,871.13	
731115 - Licenses and Permits		0.00	320,000.00	
731521 - Public Services		0.00	14,235.58	
732165 - Workshops and Meeting		0.00	29.66	
771638 - Drain Equip Labor		0.00	4,607.71	
771639 - Drain Equipment		0.00	269.47	
Administration TOTALS				
	390,165.00	0.00	466,014.99	(\$75,849.99)
ENG - Engineering				
731346 - Personal Mileage		0.00	7,350.14	
731521 - Public Services		0.00	40,605.00	
771638 - Drain Equip Labor		3,476.13	719,103.40	
771639 - Drain Equipment		332.80	79,647.04	
Engineering TOTALS				
	484,153.00	3,808.93	846,705.58	(\$362,552.58)
ENGCON - Engineering Consultant				
730639 - Engineering Services-Other		0.00	3,594,242.60	
731073 - Legal Services		0.00	108.00	
Engineering Consultant TOTALS				
	3,275,248.00	0.00	3,594,350.60	(\$319,102.60)
FAC - Facility Acquisition				
731472 - Project Construction and Impr		0.00	14,058,313.68	
731521 - Public Services		0.00	6,798.84	
750294 - Material and Supplies		0.00	228.00	
Facility Acquisition TOTALS				
	15,225,614.00	0.00	14,065,340.52	\$1,160,273.48
INS - Inspection				
730373 - Contracted Services		0.00	473.03	
731521 - Public Services		0.00	16,935.91	
Inspection TOTALS				
	17,408.00	0.00	17,408.94	(\$0.94)
LEGAL - Legal and Financial				
730639 - Engineering Services-Other		0.00	8,398.96	
730940 - Insurance		0.00	54,526.58	
731073 - Legal Services		0.00	124,753.11	
793938 - Discount on Bonds		0.00	6,964.10	
Legal and Financial TOTALS				
	191,321.00	0.00	194,642.75	(\$3,321.75)
ROW - Right of Way				
731563 - Recording Fees		0.00	50.67	
Right of Way TOTALS				
	0.00	0.00	50.67	(\$50.67)

Water Resources Commissioner
PROJECT WORK IN PROGRESS
Oakland Macomb InterceptorSeg4
100000001913
 (as of February 12, 2020)

Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
Project 100000001913 - Oakland Macomb InterceptorSeg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$19,583,909.00	\$3,808.93	\$19,184,514.05	\$399,394.95
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$10,250,729.40	
615572-State Capital Grants	\$0.00	\$1,105,350.77	
655077-Accrued Interest Adjustments	\$1,726.89	\$46,813.79	
655385-Income from Investments	\$6,140.21	\$622,066.59	
697551-Issuance of Bonds	\$0.00	\$2,828,246.60	
697753-State Revolving Fund Loans	\$0.00	\$8,490,000.00	
TOTAL REVENUE	\$7,867.10	\$23,343,207.15	
REVENUE OVER/(UNDER) EXPENSES		\$4,158,693.10	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS Pump Install Seg4

100000002041

(as of February 12, 2020)

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

730926 - Indirect Costs	0.00	535.47	
Administration TOTALS			
5,000.00	0.00	535.47	\$4,464.53

ENG - Engineering

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

ENGCON - Engineering Consultant

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

FAC - Facility Acquisition

Facility Acquisition TOTALS			
3,268,155.00	0.00	0.00	\$3,268,155.00

Project 100000002041 - NESPS Pump Install Seg4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$3,488,155.00	\$0.00	\$192,021.33	\$3,296,133.67
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$200,000.00	
TOTAL REVENUE	\$0.00	\$200,000.00	
REVENUE OVER/(UNDER) EXPENSES		\$7,978.67	

Water Resources Commissioner
PROJECT WORK IN PROGRESS
OMI NESPS GATEHOUSE SEG4
100000002232
(as of February 12, 2020)

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

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

Administration TOTALS

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

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

771638 - Drain Equip Labor	0.00	7,984.27	
771639 - Drain Equipment	0.00	393.60	

Engineering TOTALS

59,699.00	0.00	8,377.87	\$51,321.13
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ENGCON - Engineering Consultant

730639 - Engineering Services-Other	0.00	1,240,287.32	
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Engineering Consultant TOTALS

496,981.00	0.00	1,240,287.32	(\$743,306.32)
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FAC - Facility Acquisition

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

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

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

Inspection TOTALS

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

731073 - Legal Services	0.00	1,213.00	
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Legal and Financial TOTALS

6,000.00	0.00	1,213.00	\$4,787.00
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Project 100000002232 - OMI NESPS GATEHOUSE SEG4			
Total Project Expenses			
Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
\$4,418,998.00	\$0.00	\$4,708,386.72	(\$289,388.72)
Total Project Revenue			
Account	Month-to-Date Revenue	Life-to-Date Revenue	
605572-Special Assessments	\$0.00	\$2,434,988.28	
697551-Issuance of Bonds	\$0.00	\$2,315,011.72	
TOTAL REVENUE	\$0.00	\$4,750,000.00	
REVENUE OVER/(UNDER) EXPENSES		\$41,613.28	

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS Odor Corrosion Stdy Seg4

100000002708

(as of February 12, 2020)

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

730926 - Indirect Costs	0.00	5,784.38	
Administration TOTALS			
188,148.00	0.00	5,784.38	\$182,363.62

CONT - Contingency

Contingency TOTALS			
637,000.00	0.00	0.00	\$637,000.00

ENG - Engineering

771638 - Drain Equip Labor	4,506.09	80,701.66	
771639 - Drain Equipment	127.41	3,053.77	
Engineering TOTALS			
206,253.00	4,633.50	83,755.43	\$122,497.57

ENGCON - Engineering Consultant

730373 - Contracted Services	0.00	198,151.42	
730639 - Engineering Services-Other	0.00	59,195.44	
Engineering Consultant TOTALS			
1,073,000.00	0.00	257,346.86	\$815,653.14

FAC - Facility Acquisition

730352 - Construction	0.00	496,066.40	
731472 - Project Construction and Impr	0.00	879,521.99	
Facility Acquisition TOTALS			
4,600,000.00	0.00	1,375,588.39	\$3,224,411.61

INS - Inspection

771638 - Drain Equip Labor	5,738.73	77,505.83	
771639 - Drain Equipment	875.91	13,038.78	
Inspection TOTALS			
190,343.00	6,614.64	90,544.61	\$99,798.39

LEGAL - Legal and Financial

Legal and Financial TOTALS			
15,000.00	0.00	0.00	\$15,000.00

ROW - Right of Way

Right of Way TOTALS			
46,000.00	0.00	0.00	\$46,000.00

STD - Standard Operation

730352 - Construction	0.00	198,018.10	
730373 - Contracted Services	0.00	600,395.51	
730926 - Indirect Costs	0.00	1,864.90	
730940 - Insurance	0.00	139,930.93	
731073 - Legal Services	0.00	1,744.00	
731472 - Project Construction and Impr	0.00	51,390.00	
731906 - Testing Services	0.00	20,811.23	
771638 - Drain Equip Labor	0.00	1,419.02	
771639 - Drain Equipment	0.00	357.14	
Standard Operation TOTALS			
38,010.00	0.00	1,015,930.83	(\$977,920.83)

Water Resources Commissioner

PROJECT WORK IN PROGRESS

NESPS Odor Corrosion Stdy Seg4

100000002708

(as of February 12, 2020)

	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
SUR - Survey Crew				
Survey Crew TOTALS				
	10,246.00	0.00	0.00	\$10,246.00

Project 100000002708 - NESPS Odor Corrosion Stdy Seg4				
Total Project Expenses				
	Budget Amount	Month-to-Date Expenses	Life-to-Date Expenses	LTD Variance
	\$7,004,000.00	\$11,248.14	\$2,828,950.50	\$4,175,049.50
Total Project Revenue				
Account	Month-to-Date Revenue	Life-to-Date Revenue		
605572-Special Assessments	\$0.00	\$1,354,258.32		
697551-Issuance of Bonds	\$0.00	\$1,596,741.68		
TOTAL REVENUE	\$0.00	\$2,951,000.00		
REVENUE OVER/(UNDER) EXPENSES		\$122,049.50		

OAKLAND MACOMB INTERCEPTOR DRAINAGE BOARD - APPROVAL OF INVOICES/REIMBURSEMENTS

OMI DD Meeting Date 02/19/2020

		84912	84914	84915	84915	84915	84915	84915	82912	
		1-2892	1-1557	1-1913	1-2041	1-2232	1-2232	1-2708		
Payable To	Invoice #	Segment 1 - OMID Odor, Corrosion Study	Segment 3	Segment 4	Segment 4 - NESPS Pump Install	Segment 4 - NESPS Gate House	Segment 4 - NIEA East Arm	Segment 4 - NESPS Odor, Corrosion Study	Operations & Maintenance	Total
Oakland County *	WRC Labor/Fringes/Non-direct Labor			5,760.13				20,353.61		\$26,113.74
Oakland County *	WRC Equipment			600.00				2,247.36		\$2,847.36
Oakland County *	WRC Mileage/Parking			1,279.33						\$1,279.33
Applied Sciences Inc.	Invoice #12 (ASI Inv. #7521) Work Through 01/25/2020								112,983.53	\$112,983.53
Bioair Solutions LLC	Invoice # I-20004 Electrical Control Panel NESPS Odor Corrosion Control							79,615.00		\$79,615.00
CH2M - LG Design, Inc	Invoice # 705773CH013							143,526.04		\$143,526.04
Comerica (Pcard)	FedEx 91023032								50.01	\$50.01
Comerica (Pcard)	PANERA BREAD #600750								295.65	\$295.65
CSM Mechanical	Invoice # OMIDD003 Replace Bypass Gate Valve on Pump 2								491.76	\$491.76
CSM Mechanical	Invoice # OMIDD004 Toilet Seat Replacement								278.40	\$278.40
CSM Mechanical	Invoice # OMIDD005 Hose bib inspection and replacement								926.38	\$926.38
CSM Mechanical	Invoice # OMIDD006 R&R 2" nipple and gate valve								657.52	\$657.52
CSM Mechanical	Invoice # OMIDD008 R&R Door and framing								2,439.00	\$2,439.00
D'Angelo Brothers Inc	Invoice # 6457-WRCOMID Sterling Heights: Edison Corridor								4,996.70	\$4,996.70
Dickinson Wright	Invoice # 1439744 - Professional Services ending 12/31/19								35.00	\$35.00
Dickinson Wright	Invoice # 1447211 - Professional Services ending 01/31/20								560.00	\$560.00
Jacobs CH2M Hill Engineers Inc.	Invoice # 697317CH # 16 Through 12/27/2019			27,522.34						\$27,522.34
Jacobs CH2M Hill Engineers Inc.	Invoice # 697317CH # 17 Through 01/24/2020			13,617.64						\$13,617.64
Konecranes	Invoice # 154205346 Service through 11/07/2019								31,250.00	\$31,250.00
Kennedy Industries	Invoice # 614099 - NESPS Field Service On Site 10/23								704.00	\$704.00
Kennedy Industries	Invoice # 615975 - NESPS Field Service On Site 10/29 & 11/12								3,085.00	\$3,085.00
Kennedy Industries	Invoice # 615977 - NESPS Field Service On Site 11/6 & 11/20								1,276.00	\$1,276.00
Meadowbrook Insurance Agency	Invoice # 3743 - Insurance - Policy N11036260 003 Excess Liability 2nd Layer								32,640.00	\$32,640.00
Meadowbrook Insurance Agency	Invoice # 3744 - Insurance - Policy 5111-0090-03 Excess Liability Renewal								87,545.00	\$87,545.00
Meadowbrook Insurance Agency	Invoice # 3770 - Insurance - Policy 023627171 General Liability Renewal								213,726.85	\$213,726.85
Meadowbrook Insurance Agency	Invoice # 3772 - Insurance - Policy EPC012143503 Pollution, Stamping, & Surpluss								60,372.50	\$60,372.50
METCO	Invoice # 1811-13 Through 01/31/2020								47,702.67	\$47,702.67
Motor City Electric Technologies	Invoice # 92879 Work Performed 11/18/2019								154.00	\$154.00
Motor City Electric Technologies	Invoice # 92880 Work Performed 11/27/2019								443.46	\$443.46
Motor City Electric Technologies	Invoice # 92881 Work Performed 12/02/2019								154.00	\$154.00
Motor City Electric Technologies	Invoice # 92882 Work Performed 12/04/2019								269.50	\$269.50
Motor City Electric Technologies	Invoice # 92883 Work Performed 12/04/2019								1,211.08	\$1,211.08
Motor City Electric Technologies	Invoice # 92884 Work Performed 12/05/2019								192.50	\$192.50
Motor City Electric Technologies	Invoice # 92885 Work Performed 12/10/2019								154.00	\$154.00
Motor City Electric Technologies	Invoice # 92886 Work Performed 12/16/2019								616.00	\$616.00
Motor City Electric Technologies	Invoice # 92887 Work Performed 12/17/2019								616.00	\$616.00
Motor City Electric Technologies	Invoice # 92888 Work Performed 12/18/2019								616.00	\$616.00
NTH Consultants	Inv # 04 - OMIDD NESPS Corrosion Control System							2,135.31		\$2,135.31
NTH Consultants	Inv # 06 - Additional OMIDD Rehab Closeout Svs								3,587.12	\$3,587.12
NTH Consultants	Inv # 08 - OMIDD NI-EA Rehab								105,405.17	\$105,405.17
NTH Consultants	Inv # 12 - OMIDD System Immediate Repairs								5,597.93	\$5,597.93
NTH Consultants	Inv # 17 - OMIDD NI-EA Lining Options Study						974.00			\$974.00
NTH Consultants	Inv # 49 - OMIDD NESPS Discharge Rehab					1,898.24				\$1,898.24
PM Technologies	Invoice # 0000134306 Control Room Heater								1,504.00	\$1,504.00
PM Technologies	Invoice # 0000134622 Battery Replacement								1,348.52	\$1,348.52
Rotor Electric Co.	Invoice # 12280 Switchgear Maint. & Testing 11/21/2019								6,639.11	\$6,639.11
Rotor Electric Co.	Invoice # 12281 Switchgear Maint. & Testing 01/08/2020								796.80	\$796.80
Rotor Electric Co.	Invoice # 12282 Switchgear Maint. & Testing 11/18/2019								9,514.50	\$9,514.50
	Total Invoices/Reimbursements for Approval	\$41,139.98	\$0.00	\$7,639.46	\$0.00	\$1,898.24	\$974.00	\$247,877.32	\$731,321.16	\$1,030,850.16
	* Less WRC Charges already paid from OMI Fund	0.00	0.00	(7,639.46)		0.00	0.00	(22,600.97)	0.00	(30,240.43)
	** Less amount being paid from Retainage Account									0.00
	Total Invoices/Reimbursements that will impact Cash Balance listed on Current Trial Balance submitted to OMI Drain Board	\$41,139.98	\$0.00	\$0.00	\$0.00	\$1,898.24	\$974.00	\$225,276.35	\$731,321.16	\$1,000,609.73

Agenda Item No. 10

Invoices

OMI Seg 4 Proj - WRC Employee Related Expense - Reconciliation between CIP & Query Reports

Internal Reconciliation for the 02/19/2020 OMI Meeting

Activity	Account Name	Amount from Previous OMI Meeting CIP Report (01/15/2020 mtg)	WRC Labor, Fringes, Non-Direct Labor Factor, and Equipment presented to 02/19/2020 Mtg	*Rounding adjustment due to CAMS Upgrade	WRC LTD as of the CIP Report for the 02/19/2020 Mtg
ADM	SALARIES	\$0.00			\$0.00
ADM	SALARIES - NPF	\$0.00			\$0.00
ADM	EQUIP RENTAL (drain equip from Prelim Proj)	\$0.00			\$0.00
ADM	DRAIN EQUIP LABOR	\$4,607.71			\$4,607.71
ADM	DRAIN EQUIP	\$269.47			\$269.47
ENG	SALARIES	\$0.00			\$0.00
ENG	SALARIES - NPF	\$0.00			\$0.00
ENG	EQUIP RENTAL (drain equip from Prelim Proj)	\$0.00			\$0.00
ENG	PERSONAL MILEAGE	\$7,212.10	\$	1,279.33	\$8,491.43
ENG	DRAIN EQUIP LABOR	\$713,357.31	\$	5,760.13	\$719,117.44
ENG	DRAIN EQUIP	\$88,437.09	\$	600.00	\$89,037.09
INS	SALARIES	\$0.00			\$0.00
INS	SALARIES - NPF	\$0.00			\$0.00
INS	EQUIP RENTAL (drain equip from Prelim Proj)	\$0.00			\$0.00
INS	DRAIN EQUIP LABOR	\$0.00			\$0.00
INS	DRAIN EQUIP	\$0.00			\$0.00
ROW	SALARIES	\$0.00			\$0.00
ROW	SALARIES - NPF	\$0.00			\$0.00
ROW	EQUIP RENTAL (drain equip from Prelim Proj)	\$0.00			\$0.00
ROW	DRAIN EQUIP LABOR	\$0.00			\$0.00
ROW	DRAIN EQUIP	\$0.00			\$0.00
FRINGE_BENEFITS	total FBs	\$0.00			\$0.00
		\$813,883.68	\$	7,639.46	\$0.00
					\$821,523.14

Detailed Query info worksheets

WRC Labor/Fringes/Non-Direct Labor Factor	\$	5,760.13
WRC Equipment	\$	600.00
mileage/parking w/s	\$	1,279.33
unassigned equip w/s	\$	-
		<u>\$7,639.46</u>

Difference between Project in Progress Report and Query Detail \$0.00

OMI Segment 4 Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 01/04/2020 - 01/31/2020										
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipmer	Cost Category	Project	Activity	
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	1000000	ENG	
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	1000000	ENG	
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	1000000	ENG	
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	1000000	ENG	
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	1000000	ENG	
			LOCKHART, SIDNEY Total		\$1,229.40					
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$86.40	OVERTIME	WRCROW	1000000	ENG	
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$76.18	REGULAR	WRCROW	1000000	ENG	
			PARROTT, JEFFREY Total		\$162.58					
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$256.95	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	1000000	ENG	
			POUSHO, ROBERT Total		\$4,368.15					
			Grand Total		\$5,760.13					

OMI Segment 4 Project - WRC Equipment Charges for Trans Dates - 01/04/2020 - 01/31/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburban	100000001913	ENG
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburban	100000001913	ENG
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburban	100000001913	ENG
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburban	100000001913	ENG
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburban	100000001913	ENG
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
			LOCKHART, SIDNEY Total		\$84.30				
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000001913	ENG
			PARROTT, JEFFREY Total		\$4.68				
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$3.60	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$5.40	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$21.06	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Car	100000001913	ENG
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG

OMI Segment 4 Project - WRC Equipment Charges for Trans Dates - 01/04/2020 - 01/31/2020									
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Ca	100000001913	ENG
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
			POUSHO, ROBERT Total		\$511.02				
			Grand Total		\$600.00				

OMI Segment 4 Project - WRC Personal Mileage and Parking - Accounting Date Range 01/01/2020 - 01/31/2020

Acctg Date	Fund	Fund Description	Project	Project Description	Activity	Descr	Sum BU Amount
1/3/2020	84915	Oakland Macomb Interceptor Seg 4	100000001913	Oakland Macomb Interceptor Seg 4	ENG	Pousho 450 miles 01-10-2020	\$ 261.00
1/17/2020	84916	Oakland Macomb Interceptor Seg 5	100000001913	Oakland Macomb Interceptor Seg 5	ENG	Pousho 936 miles 01-24-2020	\$ 538.20
31-Jan	84917	Oakland Macomb Interceptor Seg 6	100000001913	Oakland Macomb Interceptor Seg 6	ENG	Pousho 835 miles 02-07-2020	\$ 480.13
							<u>\$ 1,279.33</u>

WID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Assign Equipment	Cost Category	Project	Activity
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburbans	100000001913	ENG
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburbans	100000001913	ENG
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburbans	100000001913	ENG
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburbans	100000001913	ENG
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$0.80	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$4.68	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$11.38	ASSIGNED	Blazer/Suburbans	100000001913	ENG
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$5.40	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$3.60	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$21.06	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$18.72	ASSIGNED	PC/Computer	100000001913	ENG
834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$3.20	ASSIGNED	Cell Phone	100000001913	ENG
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000001913	ENG
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$86.40	OVERTIME	WRCROW	100000001913	ENG

834323	01/15/2020	01/10/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/15/2020	01/14/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/15/2020	01/16/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/22/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/28/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/31/2020	01/23/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000001913	ENG
834323	01/15/2020	01/07/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/15/2020	01/09/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/15/2020	01/13/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/21/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/27/2020	POUSHO, ROBERT	9.00	\$256.95	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/31/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/31/2020	01/21/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000001913	ENG
834323	01/31/2020	01/31/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000001913	ENG
834323	01/15/2020	01/15/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/15/2020	01/17/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/15/2020	01/06/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/15/2020	01/08/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/24/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/30/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/31/2020	01/24/2020	PARROTT, JEFFREY	1.00	\$76.18	REGULAR	WRCROW	100000001913	ENG
834323	01/31/2020	01/29/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000001913	ENG
834323	01/30/2020	01/23/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/30/2020	01/29/2020	POUSHO, ROBERT	8.00	\$228.40	REGULAR	WRCCON	100000001913	ENG
834323	01/31/2020	01/27/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000001913	ENG

Internal Reconciliation for the 02/19/2020 OMI Meeting

		Amount from Previous OMI Meeting CIP Report (01/15/2020 mtg)	WRC Labor, Fringes, Non-Direct Labor Factor, and Equipment presented to 02/19/2020 Mtg	WRC LTD as of the CIP Report for the02/19/2020 Mtg
Activity	Account Name			
ENG / STD / INS	DRAIN EQUIP LABOR	\$ 139,329.90	\$ 20,353.61	\$ 159,683.51
ENG / STD / INS	DRAIN EQUIP	\$ 14,142.59	\$ 2,247.36	\$ 16,389.95
		<u>\$ 153,472.49</u>	<u>\$ 22,600.97</u>	<u>\$ 176,073.46</u>
Detailed Query info worksheets				
WRC Labor/Fringes/Non-Direct Labor Factor			\$ 20,353.61	
WRC Equipment			\$ 2,218.86	
mileage/parking w/s			\$ -	
unassigned equip w/s			\$ 28.50	
			<u>\$22,600.97</u>	
Difference between Project in Progress Report and Query Detail				\$0.00

OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Labor/Fringes/Non-Direct Labor Factor for Trans Dates - 01/04/2020 - 01/31/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	1.50	\$151.37	OVERTIME	WRCWMA	100000002708	ENG
895939	01/31/2020	01/22/2020	BANTIOS, EVAGELOS	1.50	\$151.37	OVERTIME	WRCWMA	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	1.00	\$100.91	OVERTIME	WRCWMA	100000002708	ENG
			BANTIOS, EVAGELOS Total		\$403.65				
864521	01/08/2020	12/23/2019	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	01/08/2020	01/02/2020	BROWN, JOEL	3.00	\$311.73	REGULAR	WRCCON	100000002708	ENG
864521	01/08/2020	01/03/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/06/2020	BROWN, JOEL	3.00	\$311.73	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/07/2020	BROWN, JOEL	7.00	\$727.37	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/08/2020	BROWN, JOEL	1.50	\$155.87	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/09/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/10/2020	BROWN, JOEL	3.00	\$311.73	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/14/2020	BROWN, JOEL	5.00	\$519.55	REGULAR	WRCCON	100000002708	ENG
			BROWN, JOEL Total		\$2,961.44				
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
			CODE, JEFFREY Total		\$205.11				
864521	01/17/2020	01/06/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/07/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/09/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/13/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/15/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/17/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
			LOCKHART, SIDNEY Total		\$1,475.28				
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/10/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/21/2020	01/20/2020	ROBERTS, PATRICK	11.00	\$705.87	HOLIDAY	WRCCDM	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
			ROBERTS, PATRICK Total		\$9,734.52				
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$186.60	REGULAR	WRCCDM	100000002708	INS
			ROBINSON, RYAN Total		\$186.60				
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
			CODE, JEFFREY Total		\$341.85				
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/10/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
			ROBERTS, PATRICK Total		\$905.28				
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
			CODE, JEFFREY Total		\$68.37				
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS

			ROBERTS, PATRICK Total		\$1,357.92				
895939	01/31/2020	01/27/2020	BANTIOS, EVAGELOS	1.00	\$88.97	REGULAR	WRCWMA	100000002708	ENG
895939	01/15/2020	01/14/2020	BANTIOS, EVAGELOS	5.50	\$489.34	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	5.00	\$444.85	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/29/2020	BANTIOS, EVAGELOS	4.00	\$355.88	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/31/2020	BANTIOS, EVAGELOS	1.00	\$88.97	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	4.00	\$355.88	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/23/2020	BANTIOS, EVAGELOS	1.00	\$88.97	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/28/2020	BANTIOS, EVAGELOS	5.00	\$444.85	REGULAR	WRCWMA	100000002708	ENG
895939	01/14/2020	01/13/2020	BANTIOS, EVAGELOS	4.00	\$355.88	REGULAR	WRCWMA	100000002708	ENG
			BANTIOS, EVAGELOS Total		\$2,713.59				
			Grand Total		\$20,353.61				

OMI Segment 4 NESPS Odor Corrosion Study Project - WRC Equipment Charges for Trans Dates -01/04/2020 - 01/31/2020									
WOID	Date Entered	Date Worked	Name/Description	Hours/Units	Cost	Cost Category	Assign Equipment	Project	Activity
895939	01/14/2020	01/13/2020	BANTIOS, EVAGELOS	4.00	\$1.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/14/2020	01/13/2020	BANTIOS, EVAGELOS	4.00	\$9.36	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/15/2020	01/14/2020	BANTIOS, EVAGELOS	5.50	\$2.20	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/15/2020	01/14/2020	BANTIOS, EVAGELOS	5.50	\$12.87	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	4.00	\$1.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	4.00	\$9.36	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/22/2020	BANTIOS, EVAGELOS	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/22/2020	BANTIOS, EVAGELOS	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/23/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/23/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	5.00	\$2.00	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	5.00	\$11.70	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/27/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/27/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/28/2020	BANTIOS, EVAGELOS	5.00	\$2.00	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/28/2020	BANTIOS, EVAGELOS	5.00	\$11.70	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/29/2020	BANTIOS, EVAGELOS	4.00	\$1.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/29/2020	BANTIOS, EVAGELOS	4.00	\$9.36	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/31/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/31/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
			BANTIOS, EVAGELOS Total		\$94.53				
864521	01/08/2020	12/23/2019	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/08/2020	12/23/2019	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/08/2020	01/02/2020	BROWN, JOEL	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/08/2020	01/02/2020	BROWN, JOEL	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/08/2020	01/03/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/08/2020	01/03/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/21/2020	01/06/2020	BROWN, JOEL	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/21/2020	01/06/2020	BROWN, JOEL	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/21/2020	01/07/2020	BROWN, JOEL	7.00	\$2.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/21/2020	01/07/2020	BROWN, JOEL	7.00	\$16.38	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/21/2020	01/08/2020	BROWN, JOEL	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/21/2020	01/08/2020	BROWN, JOEL	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/21/2020	01/09/2020	BROWN, JOEL	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/21/2020	01/09/2020	BROWN, JOEL	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/21/2020	01/10/2020	BROWN, JOEL	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/21/2020	01/10/2020	BROWN, JOEL	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	ENG
864521	01/21/2020	01/14/2020	BROWN, JOEL	5.00	\$2.00	ASSIGNED	Cell Phone	100000002708	ENG
864521	01/21/2020	01/14/2020	BROWN, JOEL	5.00	\$11.70	ASSIGNED	PC/Computer	100000002708	ENG
			BROWN, JOEL Total		\$78.09				
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS

Equipment

866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$11.38	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$1.20	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/21/2020	01/20/2020	ROBERTS, PATRICK	11.00	\$62.59	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/21/2020	01/20/2020	ROBERTS, PATRICK	11.00	\$4.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/21/2020	01/20/2020	ROBERTS, PATRICK	11.00	\$6.60	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/21/2020	01/20/2020	ROBERTS, PATRICK	11.00	\$25.74	ASSIGNED	PC/Computer	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	2.00	\$11.38	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	2.00	\$1.20	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS

866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$11.38	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$1.20	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	INS
			ROBERTS, PATRICK Total		\$1,842.12				
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$17.07	ASSIGNED	3/4 Ton Pick-up	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
			ROBINSON, RYAN Total		\$27.09				
866220	01/10/2020	01/10/2020	CDM Leica TS15P R400	3.00	\$28.50	UNASSIGNED		100000002708	INS
			CDM Leica TS15P R400 Total		\$28.50				
			Grand Total		\$2,247.36				

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

866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	2.00	\$11.38	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	2.00	\$1.20	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	INS
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$17.07	ASSIGNED	3/4 Ton Pick-up	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$1.20	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$11.38	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$1.20	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$11.38	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$0.80	ASSIGNED	Cell Phone	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$4.68	ASSIGNED	PC/Computer	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$3.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$45.52	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$18.72	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$4.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	INS
866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	3.00	\$17.07	ASSIGNED	1/2 Ton Pick-up	100000002708	INS

866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$5.69	ASSIGNED	1/2 Ton Pick-up	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	3.00	\$7.02	ASSIGNED	PC/Computer	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	3.00	\$1.20	ASSIGNED	Cell Phone	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	3.00	\$1.80	ASSIGNED	Mobile Data Card	100000002708	INS
895939	01/14/2020	01/13/2020	BANTIOS, EVAGELOS	4.00	\$1.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/14/2020	01/13/2020	BANTIOS, EVAGELOS	4.00	\$9.36	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/15/2020	01/14/2020	BANTIOS, EVAGELOS	5.50	\$2.20	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/15/2020	01/14/2020	BANTIOS, EVAGELOS	5.50	\$12.87	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/22/2020	BANTIOS, EVAGELOS	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/22/2020	BANTIOS, EVAGELOS	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	1.50	\$0.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/31/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/29/2020	BANTIOS, EVAGELOS	4.00	\$1.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/29/2020	BANTIOS, EVAGELOS	4.00	\$9.36	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/28/2020	BANTIOS, EVAGELOS	5.00	\$2.00	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/28/2020	BANTIOS, EVAGELOS	5.00	\$11.70	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	1.50	\$3.51	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/23/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/23/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/31/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	5.00	\$2.00	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	5.00	\$11.70	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/27/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/27/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	1.00	\$0.40	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	1.00	\$2.34	ASSIGNED	PC/Computer	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	4.00	\$1.60	ASSIGNED	Cell Phone	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	4.00	\$9.36	ASSIGNED	PC/Computer	100000002708	ENG
866220	01/10/2020	01/10/2020	CDM Leica TS15P R400	3.00	\$28.50	UNASSIGNED		100000002708	INS
866220	01/21/2020	01/20/2020	ROBERTS, PATRICK	11.00	\$705.87	HOLIDAY	WRCCDM	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/10/2020	01/10/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/25/2020	01/23/2020	ROBERTS, PATRICK	3.00	\$192.51	OVERTIME	WRCCDM	100000002708	INS
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	2.00	\$128.34	OVERTIME	WRCCDM	100000002708	INS
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	1.00	\$100.91	OVERTIME	WRCWMA	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	1.50	\$151.37	OVERTIME	WRCWMA	100000002708	ENG
895939	01/31/2020	01/22/2020	BANTIOS, EVAGELOS	1.50	\$151.37	OVERTIME	WRCWMA	100000002708	ENG
864521	01/08/2020	01/02/2020	BROWN, JOEL	3.00	\$311.73	REGULAR	WRCCON	100000002708	ENG
864521	01/17/2020	01/09/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/15/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/21/2020	01/09/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	01/17/2020	01/07/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/21/2020	01/08/2020	BROWN, JOEL	1.50	\$155.87	REGULAR	WRCCON	100000002708	ENG
864521	01/08/2020	12/23/2019	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/07/2020	BROWN, JOEL	7.00	\$727.37	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/14/2020	BROWN, JOEL	5.00	\$519.55	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/06/2020	BROWN, JOEL	3.00	\$311.73	REGULAR	WRCCON	100000002708	ENG
864521	01/21/2020	01/10/2020	BROWN, JOEL	3.00	\$311.73	REGULAR	WRCCON	100000002708	ENG
864521	01/17/2020	01/06/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/13/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/17/2020	01/17/2020	LOCKHART, SIDNEY	2.00	\$245.88	REGULAR	WRCADM	100000002708	ENG
864521	01/08/2020	01/03/2020	BROWN, JOEL	2.00	\$207.82	REGULAR	WRCCON	100000002708	ENG
866220	01/08/2020	01/07/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/15/2020	01/14/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/17/2020	01/15/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/17/2020	01/16/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/28/2020	01/28/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/17/2020	01/17/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/31/2020	01/31/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/09/2020	01/08/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/09/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/10/2020	ROBINSON, RYAN	3.00	\$186.60	REGULAR	WRCCDM	100000002708	INS
866220	01/23/2020	01/22/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/28/2020	01/27/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/16/2020	01/16/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/08/2020	01/06/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/08/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/23/2020	01/21/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/29/2020	01/29/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/06/2020	01/06/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/14/2020	01/14/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/10/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/09/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/15/2020	01/15/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/23/2020	01/23/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/10/2020	01/10/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/17/2020	01/17/2020	CODE, JEFFREY	1.00	\$68.37	REGULAR	WRCCDM	100000002708	INS
866220	01/08/2020	01/07/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/25/2020	01/24/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
866220	01/15/2020	01/13/2020	ROBERTS, PATRICK	8.00	\$452.64	REGULAR	WRCCDM	100000002708	INS
895939	01/31/2020	01/27/2020	BANTIOS, EVAGELOS	1.00	\$88.97	REGULAR	WRCWMA	100000002708	ENG
895939	01/15/2020	01/14/2020	BANTIOS, EVAGELOS	5.50	\$489.34	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/24/2020	BANTIOS, EVAGELOS	5.00	\$444.85	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/29/2020	BANTIOS, EVAGELOS	4.00	\$355.88	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/31/2020	BANTIOS, EVAGELOS	1.00	\$88.97	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/21/2020	BANTIOS, EVAGELOS	4.00	\$355.88	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/23/2020	BANTIOS, EVAGELOS	1.00	\$88.97	REGULAR	WRCWMA	100000002708	ENG
895939	01/31/2020	01/28/2020	BANTIOS, EVAGELOS	5.00	\$444.85	REGULAR	WRCWMA	100000002708	ENG
895939	01/14/2020	01/13/2020	BANTIOS, EVAGELOS	4.00	\$355.88	REGULAR	WRCWMA	100000002708	ENG



Invoice Number	Invoice Date	Account Number	Page
6-898-14308	Jan 15, 2020	1155-3125-5	1 of 2

Billing Address:

OAKLAND CTY DRAIN COMMISSIONER
JACKYLN THOMAS
1 PUBLIC WORKS DR
WATERFORD MI 48328-1907

Shipping Address:

OAKLAND CTY WATER RESOURCES CO
1 PUBLIC WORKS DR
WATERFORD MI 48328-1907

Invoice Questions?**Contact FedEx Revenue Services**

Phone: 800.622.1147

M-F 7 AM to 8 PM CST

Sa 7 AM to 6 PM CST

Internet: fedex.com

Invoice Summary**FedEx Express Services**

Total Charges	USD	\$50.01
TOTAL THIS INVOICE	USD	\$50.01

Other discounts may apply.

82912
6010101
149662
730772
1-3015

Fund	82912	Dept	6010101
Prog	149662	Acct	730772
Contract #		Project	1-3015
Chap 20/21		Op Unit	
Approver	Hackman's record		

Conf #:
91023032

Detailed descriptions of surcharges can be located at fedex.com

To ensure proper credit, please return
this portion with your payment to FedEx.
Please do not staple or fold.
Please make check payable to FedEx.

Invoice Number	Invoice Amount	Account Number
6-898-14308	USD \$50.01	1155-3125-5

Remittance Advice

Your payment is due by Jan 30, 2020

68981430830000050013115531255400000000000000000500130

OAKLAND CTY DRAIN COMMISSIONER
JACKYLN THOMAS
1 PUBLIC WORKS DR
WATERFORD MI 48328-1907



FedEx
P.O. Box 371461
Pittsburgh PA 15250-7461



Public/Group Meeting Expense Form

Date: 1/15/2020 Department: WRC
 Contact Name: Debbie Hackman Division: Administration
 Signature: *Debbie Hackman*
 (authorized to charge account)

FUND #	DEPT. #	PROGRAM #	ACCOUNT #
82912	6010101	155020	732165
Project Info (if applicable)			
Project information should include Project Business Unit, Project ID, Activity, Category (if applicable) and Budget Ref year			

Please provide complete and accurate account information in the boxes above

Event Information

Type of Event OMI Drain Board Meeting Date of Event 1/15/2020
 Number of attendees: 25 Total Cost \$295.65

List of attendees and a copy of the agenda must be attached to this form

Vendor/Payee's Name Panera Bread Café #600750 Please provide mailing
 Address: 5175 Highland Road address where check
Waterford, MI 48327 is to be sent
248-618-0617
 Vendor ID # _____

Invoice/receipt must be attached

Method of payment:

Non-Purchasing Voucher

Department can request deposit payments or final payment by submitting this form to Accounts Payable.

Procurement Card

Department must submit the Public/Group Events Expense form to Department Administration with the credit card receipt.

Personal credit card, personal check, or cash to be reimbursed

Department must submit the original receipt with Public/Group Events Expense form to Accounts Payable.

Direct Bill (ex: Oak Management)

Department is responsible for obtaining invoice and submitting with the Public/Group Events Expense form to Accounts Payable.

Purpose of event and purchase (explanation should describe benefits to County):

Lunch was ordered to accommodate staff and board members need to work through lunch without leaving the building.

Approved by Director/Division Manager:

Signature

Title

Date

<https://oakgov.sharepoint.com/sites/intranet/departments/fiscal>



Applied Science, Inc.

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

February 7, 2020

Project Invoice #12 (ASI Inv. #7521)

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)

ii # 41133

v # 352

Invoice Period: 12/29/19 - 1/25/20

exp. 1/25/20

Task No.	Task Description	Total This Invoice
1	Transition & Basis of Design <i>82912</i>	
	Total:	\$ 300.00
	Subconsultants:	
	FK Engineering: <i>149662</i>	\$ 66.25
	ASI Markup 5%: <i>730639</i>	\$ 3.31
	Total: <i>1-2842</i>	\$ 369.56
	<i>engcon</i>	

Task No.	Task Description	Total This Invoice
2	Design Services for Pump & Electrical Upgrades	
	Total:	\$ 22,170.00
	Subconsultants: <i>82912</i>	
	Metco Services: <i>149667</i>	\$ 53,105.00
	FK Engineering:	\$ 1,751.50
	NTH Consultants: <i>730639</i>	\$ 21,034.71
	AEW:	\$ -
	ASI Markup 5%: <i>1-3020</i>	\$ 3,794.56
	Total Due This Invoice: <i>engcon</i>	\$ 101,855.77

Task No.	Task Description	Total This Invoice
3	Additional Special Services	
	Total:	\$ -
	Subconsultants: <i>82912</i>	
	NTH Consultants: <i>149667</i>	\$ -
	FK Engineering: <i>730639</i>	\$ 10,245.90
	ASI Markup 5%:	\$ 512.30
	Total Due This Invoice: <i>1-3016</i>	\$ 10,758.20

Total Due This Invoice: *engcon* **\$ 112,983.53**
Previous Amount Invoiced: \$ 719,336.46
Total Invoiced To-Date: \$ 832,319.99
Contract Task Total: \$ 1,691,901.00
Amount Remaining: \$ 859,581.01



BioAir Solutions, LLC
110 Kresson-Gibbsboro Road
Suite 303
Voorhees, NJ 08043
Phone: 856-258-6969
Fax: 856-258-6975

Invoice

Invoice No.	Invoice Date
I-20004	2020-01-13

Terms	Due Date
Net 30	2020-02-12

Oakland-Macomb Interceptor Drain
Drainage District (OMIDDD)
One Public Works Drive
Building 95 West
Waterford, MI 48328-1907

Purchaser	P.O. Number	Customer Reference	BioAir Project	
Joel Brown 248-452-8681	Agreement 00 52 63-1	NESPS Odor/Corrosion Control System	P18126 - OMIDDD NE PS_MI	
Item	Description		Price Each	Amount
	Electrical Control Panel, net 30 days after delivery to the job site Delivery date: 2020-01-08 BioAir Solutions is not registered to collect sales tax in the State of Michigan. If applicable, please remit tax directly.		79,615.00	79,615.00T

Fund	84915	Dept	6010101
Prog	149015	Acct	730352
Contract #	5719	Project	1-2708
Chap 20/21	20	Op Unit	FAL
Approver	<i>[Signature]</i>		

V 20748
exp 5/20/20
li 42222

Wire Information:
HSBC Bank USA, N.A.
1025 Arch Street, Philadelphia, PA 19107
Phone: 610-263-2107

Acct: 125-225881
ABA: 021001088
Swift: MRMDUS33

Interest at 1.5% per
month (18% per annum)
charged on overdue
invoices

Total USD 79,615.00

Payments/Credits USD 0.00

Balance Due USD 79,615.00



645 Griswold Street
Suite 3770
Detroit MI 48226
Tel: +1(313) 963-1313

INVOICE

Please Remit To:
CDM Smith Inc.
15050 Collections Center Drive
Chicago IL 60693

Oakland County, MI
DEBBIE HACKMAN, P.E.
OAKLAND COUNTY DRAIN COMMISSIONER
ONE PUBLIC WORKS DRIVE
WATERFORD MI 48328-1907

Account Number: 000200418081
Wire Routing: 011000138
Invoice Number: 90092080
Invoice Date: 29-JAN-2020
Project Number: 95031

Amount Due : \$24,011.81

Services from February 10, 2019 to January 25, 2020

Re : OMID Flow Meter Management and Billing Support

95031 - OMID Flow Meter DM/Billing

Description	Amount
Labor	\$23,259.61
Other Direct Costs	\$111.45
Outside Professionals	\$640.75
Total Due	\$24,011.81

Description	Amount
Previously Invoiced	\$371,579.63
Invoiced ITD	\$395,591.44
Total Contract Amount	\$655,000.00
Balance Remaining	\$259,408.56
Percent Complete	60.40%

Fund 84915 Dept 60101

Prog 149100 Acct 730373

Contract # 3669 Project _____

Op Unit _____

Approver 



LG Design is a Subsidiary of CH2M HILL Engineers

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

Invoice Contact:
Sandy.Pepper@Jacobs.com

Remit to:

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

Invoice Date 2/7/2020
CH2M HILL Project No. 705773CH
CH2M HILL Invoice No. 705773CH012
Sequential Invoice Number: 13

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

This invoice includes labor and expenses for the period:
From October 26, 2019 through January 24, 2020

Authorized Amount: \$ 1,272,470.46
Current Invoice: \$ 143,526.04
Total Invoiced: \$ 851,769.18
Percent Complete: 66.94%
Remaining Budget: \$ 420,701.28

Total Amount Due: \$ 143,526.04

Project/Task Number	Description	Total Budget	Previously Invoiced	Current Invoice	Total Invoiced	Percent Spent	Remaining Budget
1	PROJECT MANAGEMENT	\$ 33,527.00	\$ 33,504.07	\$ -	\$ 33,504.07	99.93%	\$ 22.93
2	PRELIMINARY DESIGN	\$ 73,599.00	\$ 73,519.37	\$ -	\$ 73,519.37	99.89%	\$ 79.63
3	FINAL DESIGN	\$ 195,027.00	\$ 195,009.84	\$ -	\$ 195,009.84	99.99%	\$ 17.16
4	BIDDING	\$ 31,841.46	\$ 31,840.94	\$ -	\$ 31,840.94	100.00%	\$ 0.52
5	CONSTRUCTION OBSERVATION	\$ 344,187.00	\$ 124,677.04	\$ 60,244.41	\$ 184,921.45	53.73%	\$ 159,265.55
6	REVIEW SUBMITTALS	\$ 85,648.00	\$ 60,886.35	\$ 24,210.32	\$ 85,096.67	99.36%	\$ 551.33
7	CHANGES & CLAIMS	\$ 17,361.00	\$ -	\$ 1,708.25	\$ 1,708.25	9.84%	\$ 15,652.75
8	SITE INSPECTION	\$ 35,641.00	\$ 4,202.75	\$ 104.75	\$ 4,307.50	12.09%	\$ 31,333.50
9	PREPARE O&M MANUAL	\$ 26,718.00	\$ -	\$ -	\$ -	0.00%	\$ 26,718.00
10	PROVIDE OPERATING TRAINING	\$ 9,082.00	\$ -	\$ -	\$ -	0.00%	\$ 9,082.00
11	ASSIST WITH FACILITY START-UP	\$ 17,129.00	\$ -	\$ -	\$ -	0.00%	\$ 17,129.00
12	PREPARE RECORD DRAWINGS	\$ 9,803.00	\$ -	\$ -	\$ -	0.00%	\$ 9,803.00
13	WARRANTY & PERFORMANCE REVIEWS	\$ 15,925.00	\$ -	\$ -	\$ -	0.00%	\$ 15,925.00
14	PROJECT PLANNING	\$ 25,000.00	\$ 24,997.75	\$ -	\$ 24,997.75	99.99%	\$ 2.25
EX	EXPENSES	\$ 22,711.00	\$ 16,983.39	\$ 192.23	\$ 17,175.62	75.63%	\$ 5,535.38
SUB.METCO	ELECTRICAL ENGINEERING	\$ 75,570.00	\$ 64,354.50	\$ 6,030.00	\$ 70,384.50	93.14%	\$ 5,185.50
SUB.NTH	GEOTECH INVESTIGATION	\$ 227,760.00	\$ 73,017.14	\$ 51,036.08	\$ 124,053.22	54.47%	\$ 103,706.78
SUB.SDA	SITE SURVEY	\$ 5,250.00	\$ 5,250.00	\$ -	\$ 5,250.00	100.00%	\$ -
Subtotal:		\$ 1,251,779.46	\$ 708,243.14	\$ 143,526.04	\$ 851,769.18	68.04%	\$ 400,010.28
Allowance		\$ 20,691.00	\$ -	\$ -	\$ -	0.00%	\$ 20,691.00
Total:		\$ 1,272,470.46	\$ 708,243.14	\$ 143,526.04	\$ 851,769.18	68.04%	\$ 420,701.28

OUTSTANDING INVOICES:

INVOICE DATE	INVOICE #	AMOUNT
Total:		\$ -
Current Invoice		\$ 143,526.04
TOTAL DUE:		\$ 143,526.04

Payment term: 30 calendar days (NET)

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

Electronic payment details:

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

Fund	84915	Dept	6010101
Prog	149015	Acct	730373
Contract #	5465	Project	1-2708
Chap 20/21	21	Op Unit	engcon
Approver	Eugene Butler		

v# 22147
exp. 06/03/23
i# 41047

**CSM Mechanical, LLC**

7400 Hickory Valley Dr.

Fenton, MI 48430

Phone # (248) 302-2078

Fax # (248) 856-2370

Invoice

Date	Invoice #
1/23/2020	OMIDD003

Bill To

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

Ship To

OMIDD
11010 E. State Fair St.
Detroit, MI

P.O. Number	Terms	Due Date
	Net 60	3/23/2020

Description	Amount																				
Replaced Bypass Gate Valve and 45 Fitting on Pump 2																					
Materials	36.76																				
Vehicle/Tool Allowance	75.00																				
Labor	380.00																				
<table><tr><td>Fund</td><td><u>82912</u></td><td>Dept</td><td><u>6010101</u></td></tr><tr><td>Prog</td><td><u>149090</u></td><td>Acct</td><td><u>730660</u></td></tr><tr><td>Contract #</td><td><u>5017</u></td><td>Project</td><td><u>/</u></td></tr><tr><td>Chap 20/21</td><td><u>21</u></td><td>Op Unit</td><td><u>/</u></td></tr><tr><td>Approver</td><td colspan="3"><u>Angel Benton</u></td></tr></table>		Fund	<u>82912</u>	Dept	<u>6010101</u>	Prog	<u>149090</u>	Acct	<u>730660</u>	Contract #	<u>5017</u>	Project	<u>/</u>	Chap 20/21	<u>21</u>	Op Unit	<u>/</u>	Approver	<u>Angel Benton</u>		
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Prog	<u>149090</u>	Acct	<u>730660</u>																		
Contract #	<u>5017</u>	Project	<u>/</u>																		
Chap 20/21	<u>21</u>	Op Unit	<u>/</u>																		
Approver	<u>Angel Benton</u>																				
Total		\$491.76																			

WE ACCEPT MASTER CARD, VISA, AND DISCOVER CARD

Payments/Credits \$0.00**Balance Due** \$491.76



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

Invoice

Date	Invoice #
1/23/2020	OMIDD004

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


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


P.O. Number	Terms	Due Date
	Net 60	3/23/2020


Description	Amount
Toilet Seat Replacement	
Labor	190.00
Materials	13.40
Vehicle/Tool Allowance	75.00

Fund	<u>82912</u>	Dept	<u>6010101</u>
Prog	<u>149090</u>	Acct	<u>7300110</u>
Contract #	<u>5817</u>	Project	<u>/</u>
Chap 20/21	<u>21</u>	Op Unit	<u>/</u>
Approver	<u>Angel Burton</u>		

WE ACCEPT MASTER CARD, VISA, AND DISCOVER CARD "Relentlessly Helping Our Customers Achieve Success by Being an Integral, Caring and Innovative Mechanical Solutions Provider."	Total	\$278.40
	Payments/Credits	\$0.00
	Balance Due	\$278.40

Vendor	No.	Description	Unit Price	Total	<div><div>CSM MECHANICAL, LLC 7400 HICKORY VALLEY DRIVE FENTON, MI 48430 TEL: 248.521.0981 FAX: 517.540.9704</div><div>WWW.CSMMECHANICAL.COM</div></div>								
Ferguson	3	Hose Bibs	\$9.57	\$28.71	CUSTOMER P.O. NO		DATE OF INVOICE		9/26/2019		CSM JOB #		
	1	Mop Sink Faucet	\$177.67	\$177.67	CONTACT:		Terry Moore		PHONE NO.		313-829-7207 19OMIDD-005		
				\$0.00	JOB NAME		OMIDD						
				\$0.00	ADDRESS		11010 E State Fair St. Detroit Mi.						
				\$0.00	SERVICE REQUESTED OR TROUBLE REPORTED:								
				\$0.00	Inspect and replace hose Bibs. Replace mop sink faucet.								
				\$0.00	MAKE		MODEL		SERIAL NO.		WARRANTY		
				\$0.00							CONTRACT		
				\$0.00							SERVICE CONTRACT		
				\$0.00							NORMAL		
ENVIRONMENT CHECK LIST					SERVICE PERFORMED:								
REFRIGERANT	CHRG. CODE	TYPE REFRIG.		SYS QTY.	EQUIPMENT	CHANGED OUT OR REPLACED? Y/N		N/A					
	1	RECOVERED? Y/N	N/A	QTY.		DIS-MANTLED? Y/N		N/A					
	2	RECYCLED? Y/N	N/A	QTY.		REFRIGERATOR DISPOSAL? Y/N		N/A					
	3	RECLAIMED? Y/N	N/A	QTY.									
		RETURNED TO THIS SYSTEM? Y/N	N/A	QTY.		OUR PERSONNEL RECOMMENDS							
	4	DISPOSAL			OWNERS INITIALS		ACCEPTED		DECLINED				
		NON USABLE? Y/N	N/A	QTY.									
	5	DISPOSAL											
	DATE	SERVICE ENGINEER	HOURS			LABOR AMOUNT	EQUIPMENT RENTAL						
			ST	OT	DT								
9/24/2019	Tyler Fields	4			\$380.00	CARTAGE							
9/26/2019	Tyler Fields	2			\$190.00	MATERIAL		\$206.38					
					\$0.00	FED REFRIG FEE							
					\$0.00	TAX							
					\$0.00	VEH/TOOL ALLOW		2 \$150.00					
					\$0.00	TOTAL LABOR		\$570.00					
					\$0.00								
					\$0.00	TOTAL		\$926.38					
TERMS NET 10 DAYS.					NOTE: A DELIQUENCY CHARGE OF 1-1/2% PER MONTH (BUT NOT IN EXCESS OF THE LAWFUL MAXIMUM) ON ANY AMOUNT 60 DAYS IN ARREARSIF NOT RECEIVED PRIOR TO THE NEXT MONTHLY BILLING DATE AND THEREAFTERON ALL AMOUNTS 60 DAYS OR MORE IN ARREARS UNTIL PAID.					CUSTOMERS SIGNATURE			
										SERVICEMAN SIGNATURE			
					Dorin Green					Tyler Fields			
										COMPLETE			
										INCOMPLETE			

Vendor	No.	Description	Unit Price	Total	 <div> CSM MECHANICAL, LLC 7400 HICKORY VALLEY DRIVE FENTON, MI 48430 TEL: 248.521.0981 FAX: 517.540.9704 </div>																																																																																																																																																																																										
	1	2"x6 galvanized nipple	\$11.54	\$11.54																																																																																																																																																																																											
	1	2" brass threaded. Gate valve	\$63.68	\$63.68																																																																																																																																																																																											
	1	2" brass plug	\$32.30	\$32.30	WWW.CSMMECHANICAL.COM																																																																																																																																																																																										
				\$0.00	CUSTOMER P.O. NO.		DATE OF INVOICE		9/26/2019		CSM JOB #																																																																																																																																																																																				
				\$0.00	CONTACT:		Terry Moore		PHONE NO		313-829-7207 19OMIDD-006																																																																																																																																																																																				
				\$0.00	JOB NAME		OMIDD																																																																																																																																																																																								
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				\$0.00	SERVICE REQUESTED OR TROUBLE REPORTED:																																																																																																																																																																																										
				\$0.00	Replace 2" drain line for pump six																																																																																																																																																																																										
				\$0.00	MAKE		MODEL		SERIAL NO.				WARRANTY																																																																																																																																																																																		
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				\$0.00	SERVICE PERFORMED:																																																																																																																																																																																										
				\$0.00	Removed broken 2" nipple and gate valve.																																																																																																																																																																																										
				\$0.00	Replaced with 2"x6" galvanized nipple and brass gate valve with plug in end.																																																																																																																																																																																										
				\$0.00	Was asked to take care of old hoses down on sixth floor.																																																																																																																																																																																										
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5	DISPOSAL																																																																																																																																																																																														
EQUIPMENT		6		OUR PERSONNEL RECOMMENDS																																																																																																																																																																																											
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DATE	SERVICE ENGINEER	HOURS			LABOR AMOUNT	EQUIPMENT RENTAL																																																																																																																																																																																									
		ST	OT	DT																																																																																																																																																																																											
9/26/2019	Tyler Fields	5			\$475.00	CARTAGE																																																																																																																																																																																									
					\$0.00	MATERIAL	\$107.52																																																																																																																																																																																								
					\$0.00	FED REFRIG FEE																																																																																																																																																																																									
					\$0.00	TAX																																																																																																																																																																																									
					\$0.00	VEH/TOOL ALLOW	1 \$75.00																																																																																																																																																																																								
					\$0.00	TOTAL LABOR	\$475.00																																																																																																																																																																																								
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					\$0.00	TOTAL	\$657.52																																																																																																																																																																																								

Vendor	No.	Description	Unit Price	Total	 <div style="text-align: right;"> CSM MECHANICAL, LLC 7400 HICKORY VALLEY DRIVE FENTON, MI 48430 TEL: 248.521.0981 FAX: 517.540.9704 </div>					
Overhead	1	Door Hinges & Lock Assembly	\$742.50	\$742.50						
RDM	1	RDM Construction	\$1,336.50	\$1,336.50	WWW.CSMMECHANICAL.COM					
			\$0.00		CUSTOMER P.O. NO		DATE OF INVOICE		11/27/2019	CSM JOB #
			\$0.00		CONTACT:		Terry Moore	PHONE NO		313-829-7207
			\$0.00		JOB NAME		OMIDD Door R&R			
			\$0.00		ADDRESS		11010 State Fair St. E Detroit Mi.			
			\$0.00		SERVICE REQUESTED OR TROUBLE REPORTED:					
			\$0.00		Replace metal door					
			\$0.00		MAKE	MODEL	SERIAL NO.	WARRANTY		
								CONTRACT		
								SERVICE CONTRACT		
								NORMAL		

ENVIRONMENT CHECK LIST									
REFRIGERANT	CHRG. CODE	TYPE REFRIG.		SYS QTY.	EQUIPMENT	CHANGED OUT OR REPLACED? Y/N	N/A		
	1	RECOVERED? Y/N	N/A	QTY.		DIS-MANTLED? Y/N	N/A		
	2	RECYCLED? Y/N	N/A	QTY.		REFRIGERATOR DISPOSAL? Y/N	N/A		
	3	RECLAIMED? Y/N	N/A	QTY.		6			
		RETURNED TO THIS SYSTEM? Y/N	N/A	QTY.		OUR PERSONNEL RECOMMENDS			
	4	DISPOSAL				OWNERS INITIALS			
		NON USABLE? Y/N	N/A	QTY.		ACCEPTED	DECLINED		
	5	DISPOSAL							
DATE	SERVICE ENGINEER	HOURS ST OT DT			LABOR AMOUNT	EQUIPMENT RENTAL			
11/27/2019	Tyler Fields	3			\$285.00	CARTAGE			
					\$0.00	MATERIAL	\$2,079.00		
					\$0.00	FED REFRIG FEE			
					\$0.00	TAX			
					\$0.00	VEH/TOOL ALLOW	1 \$75.00		
					\$0.00	TOTAL LABOR	\$285.00		
					\$0.00				
					\$0.00	TOTAL	\$2,439.00		

Fund 82912 Dept 6010101
 Prog 149090 Acct 7306060
 Contract # 5817 Project /
 Chap 20/21 21 Op Unit /
 Approver Eugels Bento

RECOMMENDATIONS OR ADDITIONAL REPAIRS NEEDED:						PARTS WARRANTY: ALL PARTS AS RECORDED ARE WARRANTED AS PER MANUFACTURER SPECIFICATIONS. LABOR GUARANTY THE LABOR CHARGE AS RECORDED HERE RELATIVE TO THE EQUIPMENT SERVICE AS NOTED IS GUARANTEED FOR A PERIOD OF 30 DAYS. WE DO NOT, OF COURSE GUARANTEE OTHER PARTS THAN THOSE WE INSTALL. IF REPAIRS LATER BECOME NECESSARY DUE TO OTHER DEFECTIVE PARTS, THEY WILL BE CHARGED SEPARATELY.	
CUSTOMERS SIGNATURE				SERVICEMAN SIGNATURE		COMPLETE	
				Tyler Fields		INCOMPLETE	

TERMS NET 10 DAYS. NOTE: A DELIQUENCY CHARGE OF 1-1/2% PER MONTH (BUT NOT IN EXCESS OF THE LAWFUL MAXIMUM) ON ANY AMOUNT 60 DAYS IN ARREARS IF NOT RECEIVED PRIOR TO THE NEXT MONTHLY BILLING DATE AND THEREAFTER ON ALL AMOUNTS 60 DAYS OR MORE IN ARREARS UNTIL PAID.



#6457-WRCOMID

02/01/20

PO Box 531330

Livonia, MI 48153

TO: Oakland County WRC

ATTN: Joel Brown

Sterling Heights; Edison Corridor; MH

DESCRIPTION OF WORK COMPLETED		Qty.	Unit	Hrs.	Rate	Total Per Line
Mobilize, Excavate around MH. Remove Damaged Flat Top & 4' MH Section						
50	Mobilize / Demobilize Excavator	2	EA	-	\$ 425.00	\$ 850.00
48	Excavator & Operator	1	HR	8	\$ 150.00	\$ 1,200.00
40	Labor, Regular Time	5	HR	8	\$ 43.00	\$ 1,720.00
47	Dump Truck	1	HR	8	\$ 70.00	\$ 560.00
						\$ 4,330.00
58	Precast MH Flat top, 4' Section & adjustment	1	LSx15%	-	\$ 579.74	\$ 666.70
						\$ 666.70
TOTAL						\$ 4,996.70

Vince D'Angelo (248) 515-1942

Fund	<u>82412</u>	Dept	<u>6010101</u>
Prog	<u>149130</u>	Acct	<u>730660</u>
Contract #	<u>4449</u>	Project	
Chap 20/21	<u>21</u>	Op Unit	
Approver	<u>Angelo Bortio</u>		

v# 763

IN ACCOUNT WITH

DICKINSON WRIGHT PLLC

2600 W. BIG BEAVER ROAD, SUITE 300
TROY, MI 48064-3312
TELEPHONE: (248) 433-7200
http://www.dickinsonwright.com
FEDERAL I.D. #38-1364333

INVOICE DATE: JANUARY 16, 2020
INVOICE NO.: 1439744

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

ATTN: JOHN BASCH

CLIENT/MATTER NO.: 012840-00424

Fund	82912	Dept	6010101
Prog	149667	Acct	731073
Contract #	5089	Project	1-3020
Chap 20/21	21	Op Unit	legal
12-20			

v 4978
exp 4/30/20

RE: REVISION OF OAKLAND COUNTY PURCHASE ORDER FOR MISCELLANEOUS WORK

PRIVILEGED AND CONFIDENTIAL

FOR PROFESSIONAL SERVICES THROUGH DECEMBER 31, 2019

	USD
TOTAL FEES CURRENT INVOICE	\$ 35.00
TOTAL CURRENT INVOICE	\$ 35.00

OUTSTANDING INVOICES ON THE MATTER BILLED ON THIS CURRENT INVOICE AS OF JANUARY 16, 2020

INVOICE	DATE	BILLED VALUE	PAYMENTS	OUTSTANDING
1432261	12/11/19	1,050.00	(0.00)	1,050.00
TOTAL OUTSTANDING FROM PRIOR INVOICES				\$ 1,050.00
TOTAL AMOUNT DUE				\$ 1,085.00

Remittance Instructions		
Terms: Due and Payable Upon Receipt		
Mail To:	ACH Instructions:	Wire Instructions:
Dickinson Wright PLLC 2600 W. Big Beaver Suite 300 Troy, MI 48064	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 072 000 326 Account# 38852 (Please Reference Invoice Numbers)	JP Morgan Chase Bank N.A. 28660 Northwestern Highway Southfield, MI 48034 ABA Number: 021 000 021 Swift Code: CHASUS33 (International) Account# 38852 (Please Reference Invoice Numbers)

mk 1/27/2020

IN ACCOUNT WITH

DICKINSON WRIGHT PLLC

2600 W. BIG BEAVER ROAD, SUITE 300
TROY, MI 48064-3312
TELEPHONE: (248) 433-7200
<http://www.dickinsonwright.com>
FEDERAL I.D. #38-1364333

INVOICE DATE: FEBRUARY 10, 2020
INVOICE NO.: 1447211

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

ATTN: Steve Korth

CLIENT/MATTER NO.: 012840-00418

RE: GATE OPERATION - MID

PRIVILEGED AND CONFIDENTIAL

FOR PROFESSIONAL SERVICES THROUGH JANUARY 31, 2020

		<u>USD</u>
TOTAL FEES CURRENT INVOICE	\$	560.00
TOTAL CURRENT INVOICE	\$	<u>560.00</u>

Fund	<u>82912</u>	Dept	<u>6010101</u>
Prog	<u>155010</u>	Acct	<u>731073</u>
Contract #	<u>5089</u>	Project	
Chap 20/21	<u>21</u>	Op Unit	
Approver			

r # 4978
exp 4/30/20

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

mk 2/12/20



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

Invoice Date: 1/10/2020
Jacobs Project Number: 697317CH
Sequential Invoice Number: 16
Jacobs Invoice Number: 697317CH016

INVOICE

OMIDDD System-wide Odor/Corrosion Study

This invoice includes labor and expenses for the period
From November 23, 2019 through December 27, 2019

Authorized Amount	\$ 383,789.00
Current Invoice	\$ 27,522.34
Total Invoiced to Date	\$ 341,011.42
Remaining Budget	\$ 42,777.58

Total Amount Due	\$ 27,522.34
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STATUS OF PREVIOUS INVOICES

Date	Invoice Number	Sequential Invoice Number	Invoiced Amount	Paid Date	Paid Amount	Amount Outstanding
09/27/2018	381161194	1	\$35,231.70	11/14/2018	\$35,231.70	\$0.00
11/07/2018	697317CH001	2	\$18,104.11	12/06/2018	\$18,104.11	\$0.00
11/13/2018	697317CH002	3	\$11,916.34	12/24/2018	\$11,916.34	\$0.00
12/17/2018	697317CH003	4	\$17,294.97	01/29/2019	\$17,294.97	\$0.00
01/09/2019	697317CH004	5	\$11,205.83	01/24/2019	\$11,205.83	\$0.00
02/15/2019	697317CH005	6	\$14,963.22	03/27/2019	\$14,963.22	\$0.00
03/11/2019	697317CH006	7	\$23,348.82	03/27/2019	\$23,348.82	\$0.00
04/17/2019	697317CH008	8	\$21,792.04	05/17/2019	\$21,792.04	\$0.00
05/21/2019	697317CH009	9	\$10,413.99	06/28/2019	\$10,413.99	\$0.00
06/05/2019	697317CH010	10	\$14,856.85	07/31/2019	\$14,856.85	\$0.00
08/13/2019	697317CH011	11	\$64,654.11	08/30/2019	\$64,654.11	\$0.00
09/17/2019	697317CH012	12	\$25,928.19	10/31/2019	\$25,928.19	\$0.00
10/21/2019	697317CH013	13	\$22,538.94	11/27/2019	\$22,538.94	\$0.00
11/04/2019	697317CH014	14	\$8,692.74	12/06/2019	\$8,692.74	\$0.00
12/04/2019	697317CH015	15	\$12,547.23		\$0.00	\$12,547.23
TOTAL OUTSTANDING AMOUNT					\$12,547.23	

Payment terms: 30 NET

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

Electronic payment details:

Beneficiary Bank: Wells Fargo
ABA No: 121000248
Account No (USD): 4121034003
SWIFT: WFBIUS6S

Checks payable to:

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

Fund	84912	Dept	6010101
Prog	149015	Acct	730639
Contract #	5216	Project	1-2892
Chap 20/21	21	Op Unit	Wrd
Approver	Engel		Bartus

V# 20192
exp. 5/15/20
li# 39042



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

Invoice Date: 1/31/2020
Jacobs Project Number: 697317CH
Sequential Invoice Number: 17
Jacobs Invoice Number: 697317CH017

INVOICE

OMIDDD System-wide Odor/Corrosion Study

This invoice includes labor and expenses for the period
From December 28, 2019 through January 24, 2020

Authorized Amount	\$	383,789.00
Current Invoice	\$	13,617.64
Total Invoiced to Date	\$	354,629.06
Remaining Budget	\$	29,159.94

Total Amount Due	\$	13,617.64
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STATUS OF PREVIOUS INVOICES

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

Payment terms: 30 NET

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

Electronic payment details:

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

Checks payable to:

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

Fund	84912	Dept	6010101
Prog	149015	Acct	730639
Contract #	5216	Project	1-2892
Chap 20/21	21	Op Unit	std
Approver			

v# 20192
exp. 5/15/20
li# 39942

KENNEDY INDUSTRIES

2019-2020
BUDGET
FUNDING



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

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

ATTENTION:
JOEL BROWN 248-410-4908 brownjt@oakgov.com

CUSTOMER REF/PO #		JOB #	JOB TITLE	SLP	SHIPPING TYPE	
		0101863	GREAT LAKES WATER AUTHORITY, N.E.P.S., MAINTENANCE, FIELD SERVICE	KES/MDM	FIELD SERVICE	
QUANTITY		PART NO.	DESCRIPTION		UNIT PRICE	EXTENDED
B/O	Ship					
0.00	2.50	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN(S) ONSITE ON 10/23/19 AT STANDARD RATES.		\$110.00	\$275.00
0.00	2.75	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN(S) ONSITE ON 10/23/19 AT OVERTIME RATES. PLEASE SEE THE ATTACHED SERVICE REPORT.		\$144.00	\$396.00
0.00	66.00	SERVICE TRUCK	TRAVEL		\$0.50	\$33.00

Fund	<u>82912</u>	Dept	<u>6010101</u>
Prog	<u>144090</u>	Acct	<u>7300000</u>
Contract #	<u>5825</u>	Project	
Chap 20/21	<u>21</u>	Op Unit	
Approver	<u>Angelina Bontino</u>		

v# 239
exp. 11/30/22
i# 42709

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

<small>This invoice is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer Warranty available at www.kennedyind.com which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.</small> *TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE *A 7% PER ANNUM SERVICE CHARGE SHALL BE APPLIED TO ANY BALANCE *CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE	SUBTOTAL:	\$ 704.00
	TAX:	\$ 0.00
	TOTAL:	\$ 704.00

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

www.KennedyInd.com



KENNEDY
INDUSTRIES

INNOVATE
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MONITOR
REPAIR

INVOICE		
DATE	NUMBER	PAGE
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B OMI100
I OAKLAND MACOMB INTERCEPTOR DRA
L 1 PUBLIC WORKS DR.
L WATERFORD, MI 48328
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S NORTH EAST PUMPING STATION
H 8598 E. STATE FAIR AVE
I DETROIT, MI 48234
P
T
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ATTENTION:
TERRY MOORE 313-8297207 TMOORE@METCOSERVICES.COM

CUSTOMER REF/PO #		JOB #	JOB TITLE	SLP	SHIPPING TYPE	
CONTRACT		0101863	GREAT LAKES WATER AUTHORITY, NORTH EAST PUMP STATION, MAINTENANCE, FIELD SERVICE	KES/BTJ	FIELD SERVICE	
QUANTITY		PART NO.	DESCRIPTION	UNIT PRICE	EXTENDED	
B/O	Ship					
0.00	4.50	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN ONSITE ON 10/29/2019. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$110.00	\$495.00	
0.00	66.00	TRAVEL	SERVICE VEHICLE 10/29/2019	\$0.50	\$33.00	
0.00	19.00	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (2) FIELD SERVICE TECHNICIANS ONSITE ON 11/12/2019. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$110.00	\$2,090.00	
0.00	66.00	TRAVEL	SERVICE VEHICLE 11/12/2019	\$0.50	\$33.00	
	1.00	PARTS	MATERIAL (1) SUPER ABSORBANT, 55 GAL DRUM (1) ABOSRBANT MAT, 100/PK	\$434.00	\$434.00	

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract #	5825	Project	/
Chap 20/21	21	Op Unit	/
Approver	Engel Bato		

r# 239
li# 42709
exp. 6/30/20

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

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

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

SUBTOTAL: \$3,085.00
TAX: \$0.00
TOTAL: \$3,085.00

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

www.KennedyInd.com



KENNEDY
INDUSTRIES

INNOVATE
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INVOICE		
DATE	NUMBER	PAGE
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B OMI100
I OAKLAND MACOMB INTERCEPTOR DRA
L 1 PUBLIC WORKS DR.
L WATERFORD, MI 48328
T
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S NORTH EAST PUMPING STATION
H 8598 E. STATE FAIR AVE
I DETROIT, MI 48234
P
T
O

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

CUSTOMER REF/PO #		JOB #	JOB TITLE	SLP	SHIPPING TYPE	
CONTRACT		0102135	GREAT LAKES WATER AUTHORITY, NORTH EAST PUMP STATION, PUMP #6, FIELD SERVICE	KES/JLQ	FIELD SERVICE	
QUANTITY		PART NO.	DESCRIPTION	UNIT PRICE	EXTENDED	
B/O	Ship					
0.00	11.00	GRE550NORTHEASTPS	GLWA, NORTHEAST PUMP STATION KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN ONSITE ON 11/6/2019 AND 11/20/2019. PLEASE SEE THE ATTACHED SERVICE REPORTS.	\$110.00	\$1,210.00	
0.00	132.00	TRAVEL	SERVICE VEHICLE	\$0.50	\$66.00	

Fund	82912	Dept	6010101
Prog	149096	Acct	7301660
Contract #	5825	Project	/
Chap 20/21	21	Op Unit	/
Approver	Angel Bob		

v # 239
li # 42709
exp. 4/30/22

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

This invoice is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer Warranty available at www.kennedyind.com which will be provided by email upon written request. Buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website. *TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE *A 7% PER ANNUM SERVICE CHARGE SHALL BE APPLIED TO ANY BALANCE *CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE	SUBTOTAL:	\$1,276.00
	TAX:	\$0.00
	TOTAL:	\$1,276.00

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

www.KennedyInd.com

Invoice

KONECRANES
Lifting Businesses™

Delivery Address Great Lakes Water Authority 11001 E State Fair St Detroit MI 48234	Information Document No. 154205346 Document Date 01/10/2020 Customer PO 5820 Customer Contact Terry Moore Customer No. 1806389
Invoice Address Oakland Macomb Interceptor Drain Drainage District Fund: 82912 - Program: 149090 Acct: 730660 - 1 Public Works Drive Waterford MI 48328-1907	Terms of Payment / Delivery Terms of Delivery FCA PLANT OF ORIGIN Terms of Payment 15 days net Due Date 11/22/2019

Invoice Details

Provided 4ton CXT hoist special build. Thank you very much for your business!

Item	Material Description	Quantity	Unit price USD	Value USD
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Service Request Num & Delivery Date: 1-90033593988 / 0157082789 / 11/07/2019


10	4 TON CXT Wire rope hoist	1 PC	31,250.00 / PC	31,250.00
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Tax Jur Code Level 1	6.000%	1,875.00
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Invoice Value	31,250.00
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Sales Tax	1,875.00
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Invoice Total	33,125.00
---------------	-----------

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract #	5820	Project	
Chap 20/21	21	Op Unit	
Approver			

V: 22075
exp. 6/28/22

JTB 1/10/20

DET-Detroit, MI
42970 W 10 Mile Rd
NOVI MI 48375-5421
USA

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

Contact: Hannah Russey
Email: hannah.russey@konecranes.com



16142 Collection Center Drive
Chicago, IL 60693-0002
(800) 875-8395

Invoice # 3743	Page 1 of 1
Account Number	Date
OAKLINT-01	1/27/2020
BALANCE DUE ON	
1/25/2020	
AMOUNT PAID	Amount Due
	\$32,640.00

**Oakland-Macomb Interceptor Drain
Drainage District (OMIDD)
Building 95 West, One Public Works Dr
Waterford, MI 48328**

Make checks payable to: Meadowbrook Insurance Agency

Excess Liability	Policy Number N11036260 003	Effective: 1/25/2020 to 1/25/2021
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Item #	Trans Eff Date	Due Date	Trans	Description	Amount
155026	1/25/2020	1/25/2020	RENB	Excess Liability 2nd Layer Renewal	\$32,640.00

Total Invoice Balance: \$32,640.00

Payment due upon receipt.

Fund	<u>82912</u>	Dept	<u>6010101</u>
Prog	<u>155020</u>	Acct	<u>730940</u>
Contract #	<u>4724</u>	Project	
Chap 20/21	<u>21</u>	Op Unit	
Approver	<u>St. Keith 1-31-20</u>		

v # 683
exp u/1/21



16142 Collection Center Drive
Chicago, IL 60693-0002
(800) 875-8395

Invoice # 3744	Page 1 of 1
Account Number	Date
OAKLINT-01	1/27/2020
BALANCE DUE ON	
1/25/2020	
AMOUNT PAID	Amount Due
	\$87,545.00

**Oakland-Macomb Interceptor Drain
Drainage District (OMIDD)
Building 95 West, One Public Works Dr
Waterford, MI 48328**

Make checks payable to: Meadowbrook Insurance Agency

Excess Umbrella	Policy Number 5111-0090-03	Effective: 1/25/2020 to 1/25/2021
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Item #	Trans Eff Date	Due Date	Trans	Description	Amount
155027	1/25/2020	1/25/2020	RENB	Excess Liability Renewal	\$87,545.00

Total Invoice Balance: \$87,545.00

Payment due upon receipt.

Fund	80912	Dept	6010101
Prog	155020	Acct	730940
Contract #	4724	Project	
Char	1	Op Unit	
1-31-20			

v# 683
exp 6/1/21



16142 Collection Center Drive
Chicago, IL 60693-0002
(800) 875-8395

Invoice # 3770	Page 1 of 1
Account Number	Date
OAKLINT-01	1/27/2020
BALANCE DUE ON	
1/25/2020	
AMOUNT PAID	Amount Due
	\$213,726.85

Oakland-Macomb Interceptor Drain
Drainage District (OMIDD)
Building 95 West, One Public Works Dr
Waterford, MI 48328

Make checks payable to: Meadowbrook Insurance Agency

General Liability	Policy Number 023627171	Effective: 1/25/2020 to 1/25/2021
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Item #	Trans Eff Date	Due Date	Trans	Description	Amount
155887	1/25/2020	1/25/2020	RENB	General Liability Renewal	\$208,514.00
155888	1/25/2020	1/25/2020	BSLT	Surplus Lines Taxes and Fees	\$5,212.85

Total Invoice Balance: \$213,726.85

Payment due upon receipt.

Fund	82912	Dept	6010101
Prog	155020	Acct	730940
Contract #	4724	Project	
Chap 20/21	21	Op Unit	
Approver	Sgt. Roth 1-31-20		

v# 683
exp. 6/1/21



16142 Collection Center Drive
Chicago, IL 60693-0002
(800) 875-8395

Invoice # 3772	Page 1 of 1
Account Number	Date
OAKLINT-01	1/27/2020
BALANCE DUE ON	
1/25/2020	
AMOUNT PAID	Amount Due
	\$60,372.50

**Oakland-Macomb Interceptor Drain
Drainage District (OMIDD)
Building 95 West, One Public Works Dr
Waterford, MI 48328**

Make checks payable to: Meadowbrook Insurance Agency

Pollution Liability Policy Number EPC012143503 Effective: 1/25/2020 to 1/25/2021

Item #	Trans Eff Date	Due Date	Trans	Description	Amount
156786	1/25/2020	1/25/2020	RENB	OMIDD Pollution Liability Renewal	\$58,900.00
156787	1/25/2020	1/27/2020	GSFE	Government Stamping Fee	\$294.50
156788	1/25/2020	1/27/2020	GSLT	Government Surplus Lines Tax	\$1,178.00

Total Invoice Balance: \$60,372.50

Payment due upon receipt.

Fund	82912	Dept	6010101
Prog	155020	Acct	730940
Contract #	4724	Project	
Chap 20/21	21	Op Unit	
Approver	[Signature] 1-31-20		

v # 603
exp. 6/1/21



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

INVOICE NO. 1811-13

DATE: February 4, 2020

METCO PROJECT NO. 1811

INVOICE PERIOD: thru 1/31/2020

Contract ID 000000000000000000005517

Vendor ID 0000020486

TO: OMIDD

Water Resources Commissioner
One Public Works Drive
Waterford, MI 48328

Attn: Mr. Sid Lockhart, PE

Deputy Chief Engineer/Special Projects Manager

approved:

[Signature] 2/4/20

TITLE: NESPS Operation and Maintenance

Task 3.2 - Operational Plan

Task 3.2A - OMID Operations - Fund 82912, Program 149130, Account 730373

eb 2/4/20

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>Rate/Hr.</u>	<u>Amount</u>
Raj Vijayendran, PE	Principal Engineer	0.0	\$ 215.00	\$ -
Terry Moore	Operations Manager	0.0	\$ 145.00	\$ -
Rosana Santos	Administrative Assoc.	0.0	\$ 73.79	\$ -
Subtotal Task 3.2A:				\$ -

Task 3.2B - NEPS Operations - Fund 82912, Program 149090, Account 730373

eb 2/4/20

<u>Name</u>	<u>Title</u>	<u>Hrs.</u>	<u>Rate/Hr.</u>	<u>Amount</u>
Raj Vijayendran, PE	Principal Engineer	16.0	\$ 215.00	\$ 3,440.00
Terry Moore	Operations Manager	49.0	\$ 145.00	\$ 7,105.00
Darrin Green	Staff Engineer	0.0	\$ 90.00	\$ -
Rosana Santos	Administrative Assoc.	2.0	\$ 73.79	\$ 147.58
Subtotal Task 3.2B:				\$ 10,692.58

Subtotal 3.2: \$ 10,692.58

Task 4.0 - Maintenance & Asset Management

Task 4.3A OMID Maintenance - Fund 82912, Program 149130, Account 730646

eb 2/4/20

Terry Moore	Operations Manager	26.0	\$ 145.00	\$ 3,770.00
Darrin Green	Staff Engineer	0.0	\$ 90.00	\$ -
Subtotal Task 4.3A:				\$ 3,770.00

Task 4.3B NEPS Maintenance - Fund 82912, Program 149090, Account 730646

eb 2/4/20

Terry Moore	Operations Manager	60.0	\$ 145.00	\$ 8,700.00
Terry Moore	Operations Manager (Overtime)	12.0	\$ 195.00	\$ 2,340.00
Daniel Martel	Sr. Project Coordinator	2.0	\$ 145.00	\$ 290.00

Darrin Green	Staff Engineer	104.0	\$	90.00	\$	9,360.00
Darrin Green	Staff Engineer-(Overtime)	8.0	\$	135.00	\$	1,080.00
Abhishek Shah	Staff Engineer	48.0	\$	90.00	\$	4,320.00
Brandon Brochue	Designer/Drafter	0.0	\$	85.00	\$	-

Subtotal: \$ 26,090.00

Maintenance Services (see attached invoices): \$ 7,150.09

Subtotal Task 4.3B \$ 33,240.09

Subtotal 4.3: \$ 37,010.09

TOTAL AMOUNT DUE THIS INVOICE: \$ 47,702.67

MOTOR CITY ELECTRIC TECHNOLOGIES INC.

AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL

DETROIT, MI 48213-1151

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

"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	11/18/2019	1/2/2020	92879

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$154.00	-	\$154.00	\$154.00	-	-
Totals:		\$154.00		\$154.00	\$154.00		
Less Retained:				-			
Invoice Total:				\$154.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 11/18/2019

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract#	5469	Project	-
Chap 20/21	21	Op Unit	-
Approver	Joel R		11/10/20

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."

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WATERFORD, MI 48328-

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	11/27/2019	1/2/2020	92880

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$443.46	-	\$443.46	\$443.46	-	-
Totals:		\$443.46		\$443.46	\$443.46		
Less Retained:				-			
Invoice Total:				\$443.46			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 11/27/2019

Fund	82912	Dept	6010101
Prog	149130	Acct	730660
Contract#	5469	Project	T
Chap 20/21	21	Op Unit	L
Approver	Jed Bm 1/14/20		

complete electrical construction

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/2/2019	1/2/2020	92881

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$154.00	-	\$154.00	\$154.00	-	-
Totals:		\$154.00		\$154.00	\$154.00		
Less Retained:				-			
Invoice Total:				\$154.00			

AS NEEDED ELETRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE AND FIELD REPORTS

WORK PERFORMED 12/2/2019

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract#	5469	Project	-
Chap 20/21	21	Op Unit	-
Approver	Jul R 1/10/20		

complete electrical construction

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INVOICE

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/4/2019	1/2/2020	92882

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$269.50	-	\$269.50	\$269.50	-	-
Totals:		\$269.50		\$269.50	\$269.50		
Less Retained:				-			
Invoice Total:				\$269.50			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTCHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 12/4/2019

Fund	<u>82912</u>	Dept	<u>6010101</u>
Prog	<u>149090</u>	Acct	<u>730660</u>
Contract#	<u>5469</u>	Project	<u>—</u>
Chap 20/21	<u>21</u>	Op Unit	<u>—</u>
Approver	<u>[Signature]</u>		<u>1/10/20</u>

complete electrical construction

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"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/4/2019	1/2/2020	92883

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$1,211.08	-	\$1,211.08	\$1,211.08	-	-
Totals:		\$1,211.08		\$1,211.08	\$1,211.08		
Less Retained:				-			
Invoice Total:				\$1,211.08			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICES

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 12/4/2019

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract#	5469	Project	-
Chap 20/21	21	Op Unit	-
Approver	[Signature] 1/10/20		

complete electrical construction

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INVOICE

OMID
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WATERFORD, MI 48328-

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/5/2019	1/2/2020	92884

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$192.50	-	\$192.50	\$192.50	-	-
Totals:		\$192.50		\$192.50	\$192.50		
Less Retained:				-			
Invoice Total:				\$192.50			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 12/5/2019

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract#	5469	Project	—
Chap 20/21	21	Op Unit	—
Approver	JLR 1/10/20		

complete electrical construction

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DETROIT, MI 48213-1151

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"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/10/2019	1/2/2020	92885

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$154.00	-	\$154.00	\$154.00	-	-
Totals:		\$154.00		\$154.00	\$154.00		
Less Retained:				-			
Invoice Total:				\$154.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 12/10/2019

Fund	<u>82912</u>	Dept	<u>6010101</u>
Prog	<u>149130</u>	Acct	<u>730660</u>
Contract#	<u>5469</u>	Project	<u>-</u>
Chap 20/21	<u>21</u>	Op Unit	<u>-</u>
Approver	<u>[Signature]</u>		<u>1/10/20</u>

complete electrical construction

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MOTOR CITY ELECTRIC TECHNOLOGIES INC.

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INVOICE

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/16/2019	1/2/2020	92886

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$616.00	-	\$616.00	\$616.00	-	-
Totals:		\$616.00		\$616.00	\$616.00		
Less Retained:				-			
Invoice Total:				\$616.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 12/16/2019

Fund	82912	Dept	6010101
Prog	149130	Acct	730660
Contract#	5469	Project	—
Chap 20/21	31	Op Unit	—
Approver	[Signature] 1/10/20		

complete electrical construction

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MOTOR CITY ELECTRIC TECHNOLOGIES INC.

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"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/17/2019	1/2/2020	92887

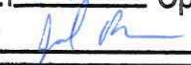
SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$616.00	-	\$616.00	\$616.00	-	-
Totals:		\$616.00		\$616.00	\$616.00		
Less Retained:				-			
Invoice Total:				\$616.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 12/17/2019

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract#	5469	Project	-
Chap 20/21	21	Op Unit	-
Approver			

complete electrical construction

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MOTOR CITY ELECTRIC TECHNOLOGIES INC.

AUTOMATION AND CONTROLS SOLUTIONS

9440 GRINNELL

DETROIT, MI 48213-1151

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

"AN EQUAL OPPORTUNITY EMPLOYER"

INVOICE

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

Customer
PO Number

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
920567	0	001	12/18/2019	1/2/2020	92888

SID LOCKHART

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	NESP SCADA CUTOVER	\$616.00	-	\$616.00	\$616.00	-	-
Totals:		\$616.00		\$616.00	\$616.00		
Less Retained:				-			
Invoice Total:				\$616.00			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE

SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORKS PERFORMED 12/18/2019

Fund	82912	Dept	6010101
Prog	149090	Acct	730660
Contract#	5469	Project	-
Chap 20/21	21	Op Unit	-
Approver	JLR 1/10/20		

complete electrical construction

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NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

OMI Drain Drainage District
One Public Works Drive
Building 96 West
Waterford, MI 48328

Invoice # : 4
Project : 61-190306
Invoice Group : NESPS
Invoice Date : 2/5/2020

Attention: Sid Lockhart

For Professional Services Rendered from 12/28/2019 - 1/24/2020

Additional OMID Construction Material Testing Services for the Northeast Sewage Pump Station Odor/Corrosion Control System Project

Task 01 NESPS Construction Material Testing \$32,862.00

Preliminary Budget Amount \$32,862.00
Percent Complete: 69.83%

Analysis of Costs	This Invoice	Cumulative
Direct Salaries	\$ 521.55	\$ 5,542.70
Overhead % 188.00	980.51	10,420.28
Total Regular Labor Expense	1,502.06	15,962.98
Premium Labor Cost	0	0
Total Direct Labor	1,502.06	1,502.06
Profit / Fixed Fee % 12.00	180.25	1,915.56
Direct Expenses Charge	431.43	4,826.66
Expense Multiplier % 5.00	21.57	241.34
Direct Subcontractor Charge	0.00	0.00
Subcontractor/Subconsultant Multiplier % 6.00	0.00	0.00
Direct Unit Rate Charge	0.00	0.00
Total Other Direct Charges Reimbursables	453.00	5,088.00
Total Costs:	2,135.31	22,946.64
Total Due This Invoice	\$ 2,135.31	\$ 22,946.64

Fund	84915	Dept	6010101
Prog	149015	Acct	731900
Contract #	2603	Project	1-2708
Chap 20/21	21	Op Unit	std
Approver	Eugene Banta		

v# 4716
exp 12/31/21
li# 24138

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

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

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NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

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

Invoice # : 6
Project : 61-190200
Invoice Group : NESPS
Invoice Date : 2/5/2020

Attention: Sid Lockhart

For Professional Services Rendered from 12/28/2019 - 1/24/2020

Additional OMID Rehabilitation Program Closeout Services and As-Needed NESPS Maintenance to Transition Tasks.

Task 01	NESPS Roof Inspection	\$11,678.33
Task 02	NESPS Spill Prevention Control and Countermeasures and Incident Prevention Plan	\$8,043.67

Preliminary Budget Amount	\$19,722.00
Percent Complete:	95.75%

Analysis of Costs

		This Invoice	Cumulative
Direct Salaries	\$	1,112.08	\$ 5,815.25
Overhead %	188.00	2,090.71	10,932.67
Total Regular Labor Expense		3,202.79	16,747.92
Premium Labor Cost		0	0
Total Direct Labor		3,202.79	16,747.92
Profit / Fixed Fee %	12.00	384.33	2,009.75
Direct Expenses Charge		0.00	119.49
Expense Multiplier %	5.00	0.00	5.97
Direct Subcontractor Charge		0.00	0.00
Subcontractor/Subconsultant Multiplier %	6.00	0.00	0.00
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		0.00	125.46
Total Costs:		3,587.12	18,883.13
Total Due This Invoice		\$ 3,587.12	\$ 18,883.13

Fund	82912	Dept	6010101
Prog	149662	Acct	731458
Contract #	2603	Project	1-2842
Chap 20/21	21	Op Unit	std
Approver	Eugene Banta		

v # 4716
exp 10/31/21
li # 24138

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

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NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

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

Invoice #: 8
Project: 61-190078
Invoice Group: NI-EA
Invoice Date: 2/5/2020

Attention: Sid Lockhart

For Professional Services Rendered from

12/28/2019 - 1/24/2020

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

Task 01	Project Management	\$276,169.00
Task 02	Condition Assessment	\$241,609.00
Task 03	Subsurface Utility Engineering	\$65,579.00
Task 04	Basemap Survey	\$89,327.00
Task 05	Geotechnical Investigation	\$134,797.00
Task 06	Environmental Study	\$60,642.00
Task 07	Basis of Design	\$379,785.00
Task 08	Rehabilitation Design	\$282,099.00
Task 09	Contract Drawings	\$236,070.00
Task 10	Contract Specifications	\$188,178.00
Task 11	Construction Costs	\$27,761.00
Task 12	Permits & Coordination	\$26,655.00
Task 13	Bidding Assistance	\$198,402.00

Preliminary Budget Amount
Percent Complete:

\$2,206,063.00
28.89%

Fund	82912	Dept	6010101
Prog	1491267	Acct	730639
Contract #	2663	Project	1-3019
Chap 20/21	21	Op Unit	engron
Approver	Eugene Boule		

v # 4716
exp. 12/31/21
i # 24138

Analysis of Costs

Direct Salaries
Overhead %
Total Regular Labor Expense
Premium Labor Cost

This Invoice
\$ 22,412.27
188.00 42,135.07
64,547.34
0

Cumulative

\$ 119,493.00
224,648.86
344,139.86
0

Total Direct Labor

64,547.34

344,139.86

Profit / Fixed Fee %

12.00 7,745.68

41,296.77

Direct Expenses Charge

497.85

18,600.87

Expense Multiplier %

5.00 24.91

930.06

Direct Subcontractor Charge

30,744.70

218,936.38

Subcontractor/Subconsultant Multiplier %

6.00 1,844.69

13,136.21

Direct Unit Rate Charge

0.00

0.00

Total Other Direct Charges Reimbursables

33,112.15

251,603.52

Total Costs:

105,405.17

637,040.15

Total Due This Invoice

\$ 105,405.17

\$ 637,040.15

REMIT TO: NTH Consultants, Ltd. - 41780 Six Mile Road - Suite 200 - Northville MI - 48168-3459
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NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

OMI Drain Drainage District
One Public Works Drive
Building 96 West
Waterford, MI 48328

Invoice # : 12
Project : 61-190044
Invoice Group : REPAIRS
Invoice Date : 2/5/2020

Attention: Sld Lockhart

For Professional Services Rendered from

12/28/2019 - 01/24/2020

OMID System Immediate Repairs

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

Analysis of Costs		This Invoice	Cumulative
Direct Salaries (Task 01 & 02)		\$ 1,578.60	\$ 22,439.65
Overhead %	188.00	2,967.77	42,186.53
Total Regular Labor Expense		4,546.37	64,626.18
Premium Labor Cost		0	0
Total Direct Labor		4,546.37	64,626.18
Profit / Fixed Fee %	12.00	545.56	7,755.14
Direct Expenses Charge		114.40	330.08
Expense Multiplier %	5.00	5.72	66.51
Direct Subcontractor Charge		387.50	8,595.25
Subcontractor/Subconsultant Multiplier %	5.00	18.38	429.80
Direct Unit Rate Charge		0.00	0.00
Total Other Direct Charges Reimbursables		506.00	9,421.64
Total Costs:		5,597.93	81,802.96
Total Due This Invoice		\$ 5,597.93	\$ 81,802.96

Fund	22912	Dept	6010101
Prog	1496602	Acct	730639
Contract #	2603	Project	1-3015
Chap 20/21	21	Op Unit	engron
Approver	Engel		

v# 4716
exp. 12/31/21
ii # 24138

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

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NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

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

Invoice # : 17
Project : 61-180419
Invoice Group : NI-EA
Invoice Date : 2/5/2020

Attention: Sid Lockhart

For Professional Services Rendered from

12/27/2019 - 01/24/2020

NI-EA Lining Options and Study

NI-EA Lining Study Options and Evaluation (Task 01)

\$126,744.00

\$126,744.00

Analysis of Costs

This Invoice

Cumulative

Direct Salaries (Task 01)

\$ 176.12

\$ 28,856.34

Overhead %

188.00 331.11

54,249.93

Total Regular Labor Expense

507.23

83,106.27

Premium Labor Cost

0

0

Total Direct Labor

507.23

83,106.27

Profit / Fixed Fee %

12.00 60.87

9,972.77

Direct Expenses Charge

0.00

455.15

Expense Multiplier %

5.00 0.00

22.76

Direct Subcontractor Charge

361.25

23,464.10

Subcontractor/Subconsultant Multiplier %

5.00 18.06

1,173.19

Direct Unit Rate Charge

0.00

0.00

Total Other Direct Charges Reimbursables

379.31

25,115.20

Total Costs:

947.41

118,194.24

Total Due This Invoice

\$ 947.41

\$ 118,194.24

Fund	84915	Dept	6010101
Prog	149015	Acct	730639
Contract #	2603	Project	1-2232
Chap 20/21	21	Op Unit	engcon
Approver	Angel Baker		

v# 4716
exp. 12/31/21
li# 24138

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

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NTH Consultants, Ltd.

Infrastructure Engineering and
Environmental Services

INVOICE

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

Invoice # : 49
Project : 61-150162
Invoice Group : NESPS CCA
Invoice Date : 2/5/2020

Attention: Sld Lockhart

For Professional Services Rendered from

12/28/2019 - 01/24/2020

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

CCA / Construction Observation (Task 01)	\$437,458.04
CIP Concrete Riser Substitution (Task 02)	\$3,041.52
Continuation of NESPS CCA (Task 03)	\$522,070.69
Continuation of GLWA Coordination (Task 04)	\$41,800.92
Sterling Heights Sewer Grout Investigation (Task 05)	\$7,507.83
Preliminary Budget Amount	\$1,011,879.00
Percent Complete:	97.43%

Analysis of Costs

	This Invoice	Cumulative
Direct Salaries	\$ 0.00	\$ 241,046.97
Overhead %	188.00 0.00	453,168.29
Total Regular Labor Expense	0.00	694,215.26
Premium Labor Cost	0	0
Total Direct Labor	0.00	694,215.26
Profit / Fixed Fee %	12.00 0.00	83,305.91
Direct Expenses Charge	0.00	37,430.90
Expense Multiplier %	5.00 0.00	1,871.55
Direct Subcontractor Charge	1,807.85	156,599.74
Subcontractor/Subconsultant Multiplier %	5.00 90.39	7,829.99
Direct Unit Rate Charge	0.00	4,655.59
Total Other Direct Charges Reimbursables	1,898.24	208,387.77
Total Costs:	1,898.24	985,908.94
Total Due This Invoice	\$ 1,898.24	\$ 985,908.94

Fund	24915	Dept	6010101
Prog	149015	Acct	730639
Contract #	2603	Project	1-2232
Chap 20/21	21	Op Unit	engcon
Approver	Angel Basha		

v # 4714
exp. 12/31/21
li # 24139

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

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Standby Generator Systems

We Bring Home Peace of Mind

28294 Beck Road Wixom, MI 48393

800-419-5199 FAX (248) 374-6402

www.PMTech.org

Invoice

Date Invoice #

1/23/2020 0000134306

Bill To:

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

Site Address:

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

PO Number	Terms	Make	Model	Serial Number																					
Darrin	NET 30 DAYS	CAT/KATO		13669-03																					
KW	PM Tech's Other Locations		Remit To:																						
1825	2385 Wilshire Drive Jenison, MI 49428 1695 Dalton Drive New Carlisle, OH 45344		28294 Beck Road Wixom, MI 48393																						
A LATE FEE of 1.5% per month, 18% per year, of the unpaid balance unpaid balance will be added to past due amounts																									
DESCRIPTION			QTY	PRICE EACH	AMOUNT																				
The original Service Call is included in this quote. If this quote is NOT accepted within 10 days, Service Call will be invoiced.			1.00	325.00	325.00																				
QUOTE 132742																									
Control room heater			1.00	779.00	779.00																				
Technician labor.			1.00	400.00	400.00																				
1/23/2020																									
<table border="1"> <tr> <td>Fund</td><td>82912</td><td>Dept</td><td>6010101</td></tr> <tr> <td>Prog</td><td>149090</td><td>Acct</td><td>7300000</td></tr> <tr> <td>Contract #</td><td>5801</td><td>Project</td><td></td></tr> <tr> <td>Chap 20/21</td><td>01</td><td>Op Unit</td><td></td></tr> <tr> <td>Approver</td><td colspan="3">Eugene Butler</td></tr> </table>						Fund	82912	Dept	6010101	Prog	149090	Acct	7300000	Contract #	5801	Project		Chap 20/21	01	Op Unit		Approver	Eugene Butler		
Fund	82912	Dept	6010101																						
Prog	149090	Acct	7300000																						
Contract #	5801	Project																							
Chap 20/21	01	Op Unit																							
Approver	Eugene Butler																								
Visa, Master Card, Discover or American Express 3% processing fee added to total over \$2,000			Subtotal \$1,504.00																						
Sign: _____ Inv # _____			Sales Tax \$0.00																						
Card #: _____			Balance Due \$1,504.00																						
Exp Date: _____ Security Code: _____			This Invoice is for the Services mentioned above only, if other repair work was completed it will be invoiced separately.																						
Conditions of Sale and Limitations of Liability are on back of invoice. Warranty Disclaimer: parts and labor not covered by the manufactures written warranty are the owner's responsibility to reimburse PM Technologies for reasonable costs incurred			Please let us know how we are doing. Go to: www.reviewbuzz.com and use PM Technologies as the company name.																						

v # 238

exp. 6/28/22

Invoice

Date 1/30/2020 Invoice # 0000134622

Bill To:

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

Site Address:

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

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

QUOTE 134553

GROUP 8D 12V COMM 1155CCA TOP POST
4 UNITS BATTERY RETURN
Technician labor.

4.00	247.63	990.52
-4.00	48.00	-192.00
1.00	550.00	550.00

1/30/2020

Fund	<u>82912</u>	Dept	<u>6010101</u>
Prog	<u>149090</u>	Acct	<u>7306600</u>
Contract #	<u>5821</u>	Project	
Chap 20/21	<u>21</u>	Op Unit	
Approver	<u>Angelo Bontio</u>		

✓ # 238
exp. 6/28/20
11 # 42705

Visa, Master Card, Discover or American Express 3% processing fee added to total over \$2,000

Subtotal \$1,348.52

Sign: _____ Inv # _____

Sales Tax \$0.00

Card #: _____

Balance Due \$1,348.52

Exp Date: _____ Security Code: _____

This Invoice if for the Services mentioned above only,
if other repair work was completed it will be invoiced
separately.

Conditions of Sale and Limitations of Liability are on back of invoice.
Warranty Disclaimer: parts and labor not covered by the manufactures written
warranty are the owner's responsibility to reimburse PM Technologies for reasonable costs incurred

Please let us know how we are doing.
Go to: www.reviewbuzz.com
and use PM Technologies as the company name.



Rotor Electric Company of Michigan, LLC

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

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	11/21/2019	1/20/2020	12290

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$6,639.11		\$6,639.11	\$6,639.11		
Totals:		\$6,639.11		\$6,639.11	\$6,639.11		
Less Retained:							
Invoice Total:				\$6,639.11			

Fund	62912	Dept	6010101
Prog	149090	Acct	730660
Contract #	5807	Project	
Chap 20/21	21	Op Unit	
Approver			

v# 22125
exp. 6/30/22

complete electrical construction

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



ROTOR ELECTRIC CO.

Rotor Electric Company of Michigan, LLC.

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

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48326

Customer
PO Number
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	1/8/2020	1/20/2020	12291

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$796.80		\$796.80	\$796.80		
Totals:		\$796.80		\$796.80	\$796.80		
Less Retained:							
Invoice Total:				\$796.80			

INVESTIGATE CHARGER GROUND FAULT

82412	Dept	6010101
149090	Acct	730660
# 5807	Project	
21	Op Unit	

v # 22125
exp. 6/28/22

complete electrical construction

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Rotor Electric Company of Michigan, LLC.

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

INVOICE

OMID
1 PUBLIC WORKS DRIVE
WATERFORD, MI 48328-

Customer
PO Number
Professional Services Contract

Job Number	Sub Job	Contract Number	Date Performed	Application	
				Date	Number
719707	0	001	11/18/2019	1/30/2020	12282

JOEL BROWN

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	SWITCHGEAR MAINTENANCE AND TESTING	\$9,514.50	.	\$9,514.50	\$9,514.50	.	.
Totals:		\$9,514.50		\$9,514.50	\$9,514.50		
Less Retained:							
Invoice Total:				\$9,514.50			

PROCURE AND DELIVERY OF CLASS A RECONDITIONED BREAKER

Fund	82912	Dept	6010101
Prog	149090	Acct	7306660
Contract #	5807	Project	
Chap 20/21	21	Op Unit	
Approver			

v # 22/25

exp 6/28/22

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 8, 7 and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof."

Agenda Item No. 11

Liability and Property Insurance
Policy Renewal Update

Agenda Item No. 12

Other Business

Agenda Item No. 13

Adjourn