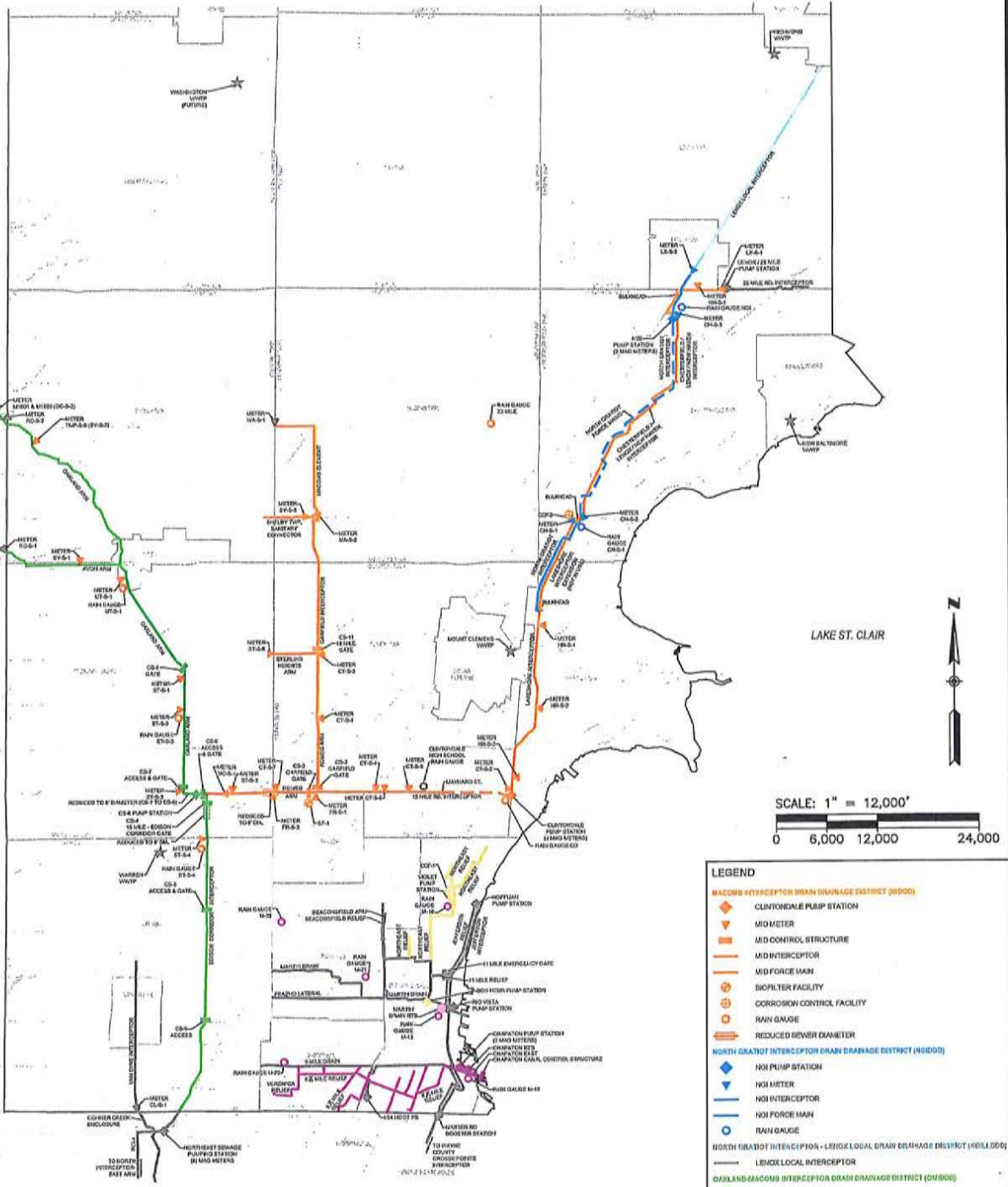


EIGHT AND ONE-HALF MILE RELIEF DRAIN  
INTRA-COUNTY DRAINAGE BOARD  
FEBRUARY 10, 2020  
10:00 A.M.  
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for February 10, 2020	
3. Approval of Minutes for January 13, 2020	3
4. Public Participation	
5. Project Updates – Vince Astorino	
6. Owner Controlled Insurance Program (OCIP) – Chapaton Canal & In-System Storage Projects – Stephen Downing	6
Motion: To authorize the Board Chair to enter an agreement with Meadowbrook Insurance Agency to provide the described services for the Owner Controlled Insurance Program.	
7. Consideration for approval of invoices (see attached)	10
8. Financial Report – Bruce Manning	88
9. Adjourn	

# MACOMB COUNTY WASTEWATER SYSTEMS



**Candice S. Miller**  
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



- LEGEND**
- MACOMB'S INTERCEPTOR DRAIN DRAINAGE DISTRICT (MDDD)**
    - CLINTONDALE PUMP STATION
    - M/D METER
    - M/D CONTROL STRUCTURE
    - M/D INTERCEPTOR
    - M/D FORCE MAIN
    - BIOFILTER FACILITY
    - CORROSION CONTROL FACILITY
    - RAIN GAUGE
    - REDUCED SEWER DIAMETER
  - NORTH GRANDT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NSDD)**
    - NOI PUMP STATION
    - NOI METER
    - NOI INTERCEPTOR
    - NOI FORCE MAIN
    - RAIN GAUGE
  - NORTH GRANDT INTERCEPTOR - LENOX LOCAL DRAIN DRAINAGE DISTRICT (NSLDD)**
    - LENOX LOCAL INTERCEPTOR
  - OXFORD/MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMDD)**
    - CS-6 PUMP STATION
    - OM/D METER
    - OM/D CONTROL STRUCTURE
    - OM/D INTERCEPTOR
    - REDUCED SEWER DIAMETER
  - 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT**
    - CHAPATON WEST PUMP STATION
    - CHAPATON RETENTION TREATMENT BASIN
    - CHAPATON CANAL CONTROL GATE
    - 1/2 MILE INTERCEPTOR
    - RAIN GAUGE
  - SOUTH GRANDT INTERCEPTOR DRAIN DRAINAGE DISTRICT (SGDD)**
    - SEMOGDS PUMP STATION
    - CORROSION CONTROL FACILITY
    - SEMOGDS INTERCEPTOR
  - MARTIN'S SANITARY SEWAGE DRAINAGE DISTRICT (MSDD)**
    - MARTIN DRAIN RETENTION TREATMENT BASIN
  - OTHER SYSTEMS**
    - PUMP STATION
    - METER
    - WWTP
    - INTERCEPTOR



UPDATED: APRIL 2017

An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on January 13, 2020, at 10:30 A.M.

PRESENT: Candice S. Miller, Chair  
Bryan Santo, Member  
Veronica Klinefelt, Member

ALSO PRESENT: Harold Haugh, Marvin Sauger, Robert Mijac, Macomb County Board of Commissioners; Vince Astorino, Operations & Flow Manager, Brian Baker, Chief Deputy, Stephen Downing, Construction & Maintenance Manager, Jeff Bednar, P.E., Environmental Resources Manager, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Kellie Kource, Drain Account Specialist, Karen Czernel, Deputy, Danielle Devlin, Environmental Specialist, Macomb County Public Works

The meeting was called to order by the Chair, Candice Miller. A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the agenda as presented.

Adopted: YEAS: 3  
NAYS: 0

Minutes of the meeting of December 9, 2019 were presented. A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the minutes as presented.

Adopted: YEAS: 3  
NAYS: 0

The meeting was opened to public participation, then closed, there being no comments from the public.

Mr. Astorino updated the board that EGLE is concerned that we will increase odors by adding 17 million gallons of storage to Chapaton. As part of our evaluation, we will put together an air dispersion model and apply it to different scenarios.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to receive and file the project update by Mr. Astorino.

Adopted: YEAS: 3  
NAYS: 0

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the Change Order #2 to the Chapaton RTB Canal Design Wade Trim contract in the amount of \$335,263.

Adopted: YEAS: 3  
NAYS: 0

A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the Jacobs Chapaton Odor Study proposal in the amount of \$68,639.

Adopted: YEAS: 3  
NAYS: 0

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the resolution for application for conveyance of Great Lakes Bottomlands.

Adopted: YEAS: 3  
NAYS: 0

A motion was made by Mr. Santo, supported by Ms. Klinefelt to receive and file the Grant Funding Request Letter – Chapaton Green Infrastructure Project.

Adopted: YEAS: 3  
NAYS: 0

The Chair presented the invoices totaling \$216,737.75 to the board for review and approval.

A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the invoices as presented.

Adopted: YEAS: 3  
NAYS: 0

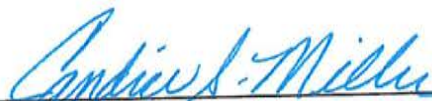
A motion to receive and file the financial report given by Mr. Manning was made by Mr. Santo and supported by Ms. Klinefelt.

Adopted: YEAS: 3  
NAYS: 0

There being no further business, it was moved by Ms. Klinefelt, supported by Mr. Santo, that the meeting of the Eight and One-Half Mile Relief Drain Board be adjourned.

Adopted: YEAS: 3  
NAYS: 0

The meeting was adjourned at 10:50 a.m.



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Candice S. Miller, Chair  
Macomb County Public Works Commissioner

STATE OF MICHIGAN  
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on January 13, 2020 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.

  
\_\_\_\_\_  
Candice S. Miller, Chair  
Macomb County Public Works Commissioner

DATED: 1/13/20



**Candice S. Miller**  
Public Works Commissioner  
Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

From: Stephen Downing, Construction & Maintenance Manager

Date: February 5, 2020

Subject: Owner Controlled Insurance Program (OCIP)

The Macomb County Public Works Office (MCPWO) evaluated implementation of an Owner Controlled Insurance Program (OCIP) for several upcoming construction projects in the Macomb Interceptor Drain Drainage District (MIDD) and 8 ½ Mile Relief Drain Drainage District (8 ½ Mile Relief). A conventional insurance program requires each individual contractor to provide insurance coverage based on the minimum coverage requirements established by the Owner. These costs are indirectly passed on to the owner as part of the contractor's bid costs. While this approach requires little effort by the Owner, and in most cases serves the intended purpose, the disadvantages have a potential impact in the event of a claim. An OCIP is a single insurance policy managed by an Owner's agent that covers all contractor's working on the included projects. This option presents an opportunity for cost savings to the Owner, better coverage and more efficient claim resolution.

We evaluated the advantages associated with an OCIP policy which made it clear that this approach better protects the Owner and creates opportunity for cost savings. The scope of services, fees and commission for Meadowbrook Insurance Agency have been attached for reference. We consulted with the County's insurance agent Stephen Saph throughout the evaluation process. While he has not managed an OCIP, Mr. Saph helped explain the benefits of such a program and confirmed the quoted fees are in line with industry standards. Meadowbrook Insurance Agency has successfully provided the same services for the Oakland-Macomb Interceptor Drain Drainage District (OMID). In fact, we are developing a new OCIP for upcoming OMID projects. We have tasked our Meadowbrook team to determine if the OMID projects can be included in this OCIP, this would create more cost savings to each Owner.

This OCIP will include the following projects:

- 1) Romeo Arm Segment 5 Rehabilitation – MIDD
- 2) Chapaton Canal Upgrades – 8 ½ Mile Relief
- 3) 15 Mile Interceptor Segment 6 Rehabilitation – MIDD
- 4) In-System Storage – 8 ½ Mile Relief

The recommendation is that the 8 ½ Mile Relief Drain Drainage District Board authorize the Board Chair to enter an agreement with Meadowbrook Insurance Agency Control to provide the described services for the Owner Controlled Insurance Program.

Attachments: Meadowbrook Insurance Agency Summary of Services

**OFFICE LOCATION:** 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

**MAILING ADDRESS:** P. O. Box 806, Mt. Clemens, Michigan 48046-0806

**ENGINEERING** • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264



February 5, 2020

**Re: Macomb County Public Works – Meadowbrook OCIP Services Contract Summary**

**Insurance Services Contract: effective January 16, 2020**

**Projects:**

- **Romeo Arm Segment 5 Rehab,**
- **Chapaton Canal Upgrades,**
- **15 Mile Interceptor Segment 6**
- **8.5 Mile Relief Storage**

**SERVICES PROVIDED – Meadowbrook Insurance Agency (MIA)**

**Item No.1:** Subject to all other terms and conditions of this Agreement, MIA shall provide professional assistance to OWNER in the development, implementation and administration of the OCIP. The OCIP shall include the following casualty, property, and other insurance coverages recommended by MIA to OWNER for the Work to be performed on the Site, in accordance with the Construction Contract:

- a. Commercial General Liability;
- b. Builder's Risk;
- c. Umbrella Excess Liability;
- d. Contractors Pollution Liability
- e. Project Professional (OPPI)
- f. Such other insurance coverages as may be requested by OWNER from time to time upon the recommendation of MIA.

In furtherance thereof, MIA shall provide the following services:

- 1.1. Develop an OCIP marketing package to be submitted to prospective underwriters for review and approval of the OWNER, and upon receipt of approval market such OCIP;
- 1.2. Negotiate, upon approval of OWNER, the terms and conditions of the insurance coverages for the OCIP and take such steps as deemed appropriate by MIA to implement the OCIP coverages; including advice as to inclusion of insurance requirements in the Contract Documents;
- 1.3. Place all insurance for the PROJECTS and OWNER for the full duration of the PROJECTS as "Agent of Record" for the insurance coverages of Owner. MIA will bill for the applicable insurance company(s) with whom insurance is placed under this Agreement for the full amount of premium.
- 1.4. Conduct OCIP orientation sessions, as directed by OWNER, for Contractors, Subcontractors, Engineers, and such other persons as OWNER may direct.

- 1.5. OCIP administration, including a list of the Engineer(s), Contractor(s) and Subcontractors enrolled in the OCIP, a summary of any significant issues MIA has encountered in the administration of the OCIP and any recommendations MIA deems appropriate for the operation of the OCIP;
- 1.6. Administer the OCIP, which shall include:
  - a. Enrollment of the Contractor(s) into OCIP program;
  - b. Notification to the insurer(s) with regard to enrollments, terminations, and contract completion;
  - c. Processing and distributing all OCIP policies and endorsements during the term hereof;
  - d. Reviewing insurance certificates furnished by Engineer(s), Contractor(s) and Subcontractors to verify compliance with the insurance requirements contained in the Contract Documents;
  - e. Assisting Contractor(s) in determining which Subcontractors qualify for enrollment under the OCIP;
  - f. Reviewing OCIP insurers' audits;
  - g. Serving as liaison between OWNER and the OCIP insurers with respect to claims filed under the OCIP. MIA shall advise as to need and method for providing notice of claims and consult with OWNER as to all actions necessary to protect OWNER's rights as an insured.

**Item No.2: ADDITIONAL SPECIAL SERVICES**

MIA shall provide Additional Special Services on an as needed basis upon specific prior written request of OWNER. No payment, of any nature whatsoever, will be made to MIA for additional work or services without such prior written approval by OWNER. Authorization for such work or services, in accordance with this provision of this Agreement, shall be in the form of a Work Order, issued by OWNER, stating the scope of the additional work, and the basis for payment. Those services are as follows:

1. Assistance to OWNER for preparation or appearance as an expert witness in litigation arising from the development or construction of the PROJECTS unless such services are required due to MIA's negligent acts, errors or omissions.
2. Preparation of applications and supporting documents for insurance submission.
3. Any other services resulting from significant changes in the scope, extent or character of the portions of the PROJECTS specified by MIA or its requirements when such changes are issued as a result of some action or inaction on the part of OWNER,



including, but not limited to, changes in size, complexity, OWNER's schedule, character of construction or method of financing; and revising previously accepted studies, reports, Drawings, Specifications or Contract Documents when such revisions are required by changes in laws, rules, regulations, ordinances, codes or orders enacted subsequent to the preparation of such studies, reports, drawings, specifications, or Contract Documents, or are due to other causes beyond MIA's control.

Notwithstanding anything to the contrary expressed elsewhere in the Agreement, no additional or other consulting services made necessary by any fault or omission of MIA to properly perform its professional agency services in conformance with the standard of practice of the profession as contracted for with OWNER, shall be compensated as an Additional Special Service under this Agreement. In the event that MIA's negligent acts, errors or omissions are determined by the final and unappealable ruling of a tribunal having jurisdiction of the claims not to be the sole cause for such additional or other consulting services, MIA shall receive compensation only for those services which are not attributable to its negligent acts, errors or omissions. Additional Special Services covered under this contract will be compensated on an hourly rate of \$125 per hour.

### **COMPENSATION FOR CONSULTING SERVICES AND TERM OF PROJECTS**

#### 1. Compensation

For the performance of the services to be provided hereunder, OWNER agrees to pay MIA the following fees:

Marketing and Setup Fee – to be billed at execution of the contract for the 3 months prior to start of construction	\$ 27,500
---	-----------

Fee Installments (paid in advance at project start) Annually	\$110,000
---	-----------

First Fee installment at inception of construction and billed every 12 months through full duration of the project which is expected to be complete in 3 years and to continue through project OCIP closeout. Any partial years' fee will be estimated pro-rata and paid in advance.

Core OCIP insurance policy and excess liability will be placed net of commissions (no commissions shall be charged by MIA) and ordinary commissions will be included in premiums paid for builders' risk, pollution liability, OPPI and other policies, which may be required to be placed and maintained for the project.

Consultative legal services for disputed claims with insurance companies, other legal requirements, associated claims expenses and other expenses that may not be payable through such insurance companies will be paid by the OWNER.

#### 2. This Agreement will be for the full term of the PROJECTS.

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
8 1/2 Mile Relief	Chapter 20 State of MI - 16.04% County of Macomb - 2.25% Dept. of Roads - 2.25% Eastpointe - 54.33% St. Clair Shores - 25.13%	Astorino	Belle Isle Awning	\$ 6,250.00	Invoice #2017862 - 1.6.20	Awning Recover	
		Astorino	City of St. Clair Shores Treasurer	\$ 714.19	Invoice #20-026 - 1.1.19	Water Bill - 9.15.19 - 12.15.19	
		Astorino	Colville Electric Co., LLC	\$ 600.00	Invoice #19-0966 - 12.26.19	Layout and Core Holes for Rack - TRC Project	
		Astorino	Colville Electric Co., LLC	\$ 635.00	Invoice #19-1011 - 12.30.19	Repaired Chlorine Pump #2	
		Astorino	Colville Electric Co., LLC	\$ 19,035.17	Invoice #20-109 - 1.8.20	Chapaton TRC Equipment	
		Astorino	Consumers Energy	\$ 700.26	Invoice #203764832650 - 1.10.20	Monthly Heat - 12.12.19 - 1.9.20	
		Astorino	Consumers Energy	\$ 591.71	Invoice #204476773264 - 1.10.20	Monthly Heat - 12.12.19 - 1.9.20	
		Astorino	DTE Energy	\$ 501.65	Invoice #20-017 - 12.31.19	Monthly Electric - 12.1.19 - 12.31.19	
		Astorino	DTE Energy	\$ 8,437.82	Invoice #20-036 - 1.8.20	Monthly Electric - 12.9.19 - 1.8.20	
		Astorino	De-Cal, Inc.	\$ 1,339.86	Invoice #W09192311 - 12.18.19	HVAC Maintenance Services	\$ 125,293.08
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 8,136.80	Invoice #388581 - 1.7.20	As-Needed Service through 12.27.19	\$ 15,556.37
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 51,495.51	Invoice #388947 - 1.7.20	Chapaton Building Renovation	
		Astorino	Hamlett Environmental Technologies	\$ 1,500.00	Invoice #2019269 - 1.17.20	Swan TRC Units Start Up	
		Astorino	HESCO	\$ 17,972.00	Invoice #10642 - 1.8.20	Jefferson Diversion Gate Repair	
		Astorino	JCI Jones Chemicals, Inc.	\$ 7,126.96	Invoice #810984 - 1.15.20	Hypochlorite Solution - 7,895 Gallons	
		Astorino	KHVPP, PLC	\$ 787.50	Invoice #43708 - 1.8.20	Legal Services	\$ 23,531.00
		Astorino	Motor City Electric Technologies	\$ 1,014.00	Invoice #92903 - 1.7.20	As-Needed SCADA Services	\$ 216,446.74
		Astorino	Tetra Tech, Inc.	\$ 60,213.92	Invoice #51540373 - 1.10.20	In-System Storage Design	\$ 188,082.69
		Astorino	Wade Trim	\$ 63,603.78	Invoice #2016836 - 1.3.20	Chapaton RTB Canal Upgrades 11.3.19 -	
					<b>Total</b>	\$ 250,656.13	



# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

Mark A. Hackel  
County Executive

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/10/20</b>
4. SET ID <b>VP 200113 MA</b>		
5. POST DATE		

PARENT RECORD INFORMATION	
6. VENDOR NAME (Check to be issued to) <b>Belle Isle Awning</b>	7. VENDOR NUMBER <b>V00424</b>
8. ADDR CODE <b>01</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>2017862</b>
10. Invoice Date <b>1/6/2020</b>	11. Invoice Amount <b>6,250.00</b>

CHILD RECORD DETAIL INFORMATION											
Line	12. Org Key	13. Object	14. Job Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
			Cost Center (CCNT)	15. Object							
A	8210017M	93001	CC0004	93001	WO18006	8 1/2 Mile Relief	PW000052; Awning recover	\$ 6,250.00	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ **6,250.00**

REV 06/2016

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

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25. Finance Officer: *BTM*      30. Drain: 8 1/2 Mile Relief

26. Chief Deputy: *AG*      31. Project Balance: N/A

27. Engineers:       32. Staff Date: 1-28-20

28. Managers: *UB*      33. Board Date: 2/10/2020

29. Coordinator: *KAC*      34. Select For Pay Date:



13701 E. 9 MILE ROAD  
WARREN, MI 48089

Phone: 586-294-6050  
Fax: 586-294-2487  
E-mail: info@belleisleawning.com  
Website: belleisleawning.com

**BILL TO:**

CHAPATON PUMP STATION  
KRIS BENDA  
23001 E 9 MILE RD  
ST. CLAIR SHORES, MI 48080

**SHIP TO:**

CHAPATON PUMP STATION  
KRIS BENDA  
23001 E 9 MILE RD  
ST. CLAIR SHORES, MI 48080

### INVOICE

<b>DATE:</b> 1/6/2020	<b>TERMS:</b>	<b>INVOICE #</b> 2017862
<b>DESCRIPTION</b>		<b>AMOUNT</b>
COMMERCIAL AWNING RECOVER 3 curtains  <b>PW 000052</b>  <b>Chapaton</b>		6,250.00
		<b>CREDITS</b>
		\$0.00
		<b>BALANCE DUE</b>
<b>PO #</b>	<b>TOTAL</b>	<b>\$6,250.00</b>
		<b>\$6,250.00</b>

TO PAY WITH A CREDIT CARD PLEASE CALL THE OFFICE

PLEASE SEND BOTTOM PORTION IN WITH YOUR PAYMENT

**BILL TO:**

CHAPATON PUMP STATION  
KRIS BENDA  
23001 E 9 MILE RD  
ST. CLAIR SHORES, MI 48080

**SHIP TO:**

CHAPATON PUMP STATION  
KRIS BENDA  
23001 E 9 MILE RD  
ST. CLAIR SHORES, MI 48080

**INVOICE #**

**2017862**

**BALANCE DUE**

**\$6,250.00**

**PLEASE MAIL PAYMENT TO:  
BELLE ISLE AWNING  
13701 E. 9 MILE ROAD  
WARREN, MI 48089**



**ONESolution**  
ACCOUNTS PAYABLE CHECK REQUEST  
**PUBLIC WORKS DIVISION**

Mark A. Hackel  
County Executive

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/10/20</b>
4. SET ID <b>18200113 MUA</b>		5. POST DATE

<b>PARENT RECORD INFORMATION</b>					
6. VENDOR NAME (Check to be issued to) City of St. Clair Shores Treasurer	7. VENDOR NUMBER V00928	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 20-026	10. Invoice Date 1/1/2020	11. Invoice Amount \$ 714.19

CHILD RECORD/DETAIL INFORMATION									
Line	General Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object							
A	8210017M	92103	CC0004	92103	WO18006 : 8 1/2 MILE RELIEF	\$ 714.19	GEN		
B									
C									
D									
E									
F									
G									

23. Total: \$ 714.19

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

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25. Finance Officer: BTM

26. Chief Deputy: AB

27. Engineers: 1.28.20

28. Managers: WR

29. Coordinator: WRC

30. Drain: 8 1/2 MILE RELIEF

31. Project Balance: N/A

32. Staff Date: 1.28.20

33. Board Date: 2/10/2020

34. Select For Pay Date:



# St. Clair Shores Water Bill

ACCOUNT NUMBER

23287-00

SERVICE ADDRESS

23001 NINE MILE

SERVICE TYPE

Government

PREVIOUS READ

1469  
7290

CURRENT READ

1499 A  
7290 E

CONSUMPTION

30  
0

FROM: SERVICE PERIOD TO:

09/15/19 12/14/19  
09/15/19 12/15/19

DUE DATE

01/21/2020

PAY AFTER DUE DATE

749.90

PAY BY DUE DATE

714.19

PREVIOUS BALANCE

0.00

Water

155.79

Sewer

199.71

Customer Chg

358.20

Retention Basins O&M

0.49

CURRENT BALANCE

714.19

MONTHLY BUDGET

20-026

Temp-Return Service Requested

8323 1 AB 0.412

8323-8323-27



MACOMB COUNTY PUBLIC WORKS

21777 DUNHAM RD

CLINTON TWP MI 48036-1005

PLEASE RETAIN THIS UPPER PORTION FOR YOUR RECORDS.  
YOUR CANCELLED CHECK IS YOUR RECEIPT.

Water rate: \$5.193/unit

Sewer rate: \$6.657/unit

Total rate: \$11.85

One unit = 748 gallons



City of  
St. Clair  
Shores

27600 Jefferson Ave.  
St. Clair Shores, MI 48081

FOR FURTHER INFORMATION PLEASE CALL:  
BILLING INFORMATION - (586) 447-3317  
SERVICE INFORMATION - (586) 445-5374  
VISIT US ON THE WEB AT [www.scsmi.org](http://www.scsmi.org)

To Pay by Credit Card or Electronic Check



Visit [www.scsmi.org](http://www.scsmi.org)

Online Payments and Services

or call 1-855-414-9009 (credit card only)

Point and Pay LLC, the service provider, charges a fee for this service of:

3.00% for credit cards (\$1.50 minimum)

Electronic checks are provided as a FREE service.

IMPORTANT INFORMATION - SEE REVERSE SIDE

REMOVE DOCUMENT ALONG THIS PERFORATION  
AND MAKE SURE RETURN ADDRESS APPEARS THROUGH WINDOW



# St. Clair Shores Water Bill

Due Date

01/21/2020

Pay After Due Date

749.90

PAY BY DUE DATE

714.19

Service Address

23001 NINE MILE

City of St. Clair Shores

27600 Jefferson Ave

Saint Clair Shores MI 48081-2075

Account Number

23287-00





Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	1/2/20
4. SET ID	5. POST DATE	
VP200103MA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Colville Electric Co., LLC	V50164	02	19-0966	12/26/2019	\$ 600.00

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object							
A	8210017M	80146	CC0014	80146	WO18006	8 1/2 Mile Relief	Layout and core holes for rack	\$ 600.00	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 600.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>BHM</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AS</i>	31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	1/14/2020
28. Managers:	<i>UA</i>	33. Board Date:	2/10/2020
29. Coordinator:	<i>CP</i>	34. Select For Pay Date:	

8 1/2 Mile

# Invoice

## Colville Electric Co., LLC

23416 Gratiot Ave.  
Eastpointe, MI 48021

*Thanks to our Loyal Customers,  
We are growing!  
The Same Family Owned Company,  
Just a new address.*

Invoice #	19-0966
Due Date	Date
1/25/2020	12/26/2019

Bill To
Macomb County DPW 23001 Nine Mile Rd. St. Clair Shores, MI 48080

Job Location
Chapton-East Building

P.O. No.	Terms	Tech
	Net 30	HN

Date	Description	Quantity	Rate	Amount
	Layout and core 6 holes for piping for plumbing for pipe rack at column 62.			
	Labor(@\$80/hr):ND	2	80.00	160.00
	Labor(@\$80/hr):HN	4.5	80.00	360.00
	Labor(@\$80/hr):DC	1	80.00	80.00
			<b>Total</b>	\$600.00

*Past Due Invoices Are Subject To 1.5% Per Month Finance Charge.  
If you have any questions, please call 586.774.9110*





Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	1/2/20
4. SET ID		5. POST DATE
NP200103MA		

6. VENDOR NAME (Check to be issued to)		7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Colville Electric Co., LLC		V50164	02	19-1011	12/30/2019	\$ 635.00

General Ledger		Job Ledger		OPTIONAL			20. DIV	21. MISC	22. Sep CK
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount		
A	8210017M	80146	80146	WO18006	8 1/2 Mile Relief	Repaired flushing pump #2	\$ 635.00	GEN	
B									
C									
D									
E									
F									
G									

23. Total: \$ 635.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>AS</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AS</i>	31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	1/14/2020
28. Managers:	<i>USA</i>	33. Board Date:	2/10/2020
29. Coordinator:	<i>CK</i>	34. Select For Pay Date:	

8 1/2 Mile

# Colville Electric Co., LLC

23416 Gratiot Ave.  
Eastpointe, MI 48021

*Thanks to our Loyal Customers,  
We are growing!  
The Same Family Owned Company,  
Just a new address.*

# Invoice

Invoice #	19-1011
Due Date	Date
1/29/2020	12/30/2019

Bill To
Macomb County DPW 23001 Nine Mile Rd. St. Clair Shores, MI 48080

Job Location
Chapton-East Building

P.O. No.	Terms	Tech
	Net 30	AM

Date	Description	Quantity	Rate	Amount
12/5	Repaired flushing pump #2. Starter was mechanically binding up not allowing full contact closure and causing pump to loose a phase.			
	Service Call Fee	1	75.00	75.00
	Labor(@\$80/hr):AM	3.5	80.00	280.00
	Labor(@\$80/hr):JC	3.5	80.00	280.00
			<b>Total</b>	\$635.00

*Past Due Invoices Are Subject To 1.5% Per Month Finance Charge.  
If you have any questions, please call 586.774.9110*



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/9/20</b>
4. SET ID <b>VP200109MA</b>		
5. POST DATE		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to) <b>Colville Electric Co., LLC</b>	7. VENDOR NUMBER <b>V50164</b>	8. ADDR CODE <b>02</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>20-109</b>
			10. Invoice Date <b>1/8/2020</b>
			11. Invoice Amount <b>\$ 19,035.17</b>

CHILD RECORD DETAIL INFORMATION												
Line	General Ledger			Job Ledger		16. Work Order Number	OPTIONAL			21. MISC		
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	17. Secondary Reference (MAX = 16 CHARACTERS)		18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV			
A	8210017M	97002	CC0004	97002		WO19081		8 1/2 Mile Relief	Chapaton TRC Equipment	\$ 19,035.17	GEN	
B												
C												
D												
E												
F												
G												

23. Total: \$ **19,035.17**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>HM</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AS</i>	31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	1/14/2020
28. Managers:	<i>VA</i>	33. Board Date:	2/10/2020
29. Coordinator:	<i>PR</i>	34. Select For Pay Date:	

# Invoice

## Colville Electric Co., LLC

23416 Gratiot Ave.  
Eastpointe, MI 48021

Invoice #	20-109
Due Date	Date
2/7/2020	1/8/2020

Bill To
Macomb County DPW 23001 Nine Mile Rd. St. Clair Shores, MI 48080

Job Location

P.O. No.	Terms	Tech
	Net 30	EN

Date	Description	Quantity	Rate	Amount
	ABZ512BCBA2F3K14GR6P24R North Basin Delivered Materials:	3	2,944.00	8,832.00 8,832.00
	ABZ512BCBA2F3K14GR6P24R South Basin Delivered Materials:	3	2,944.00	8,832.00 8,832.00
	A-B 193-ECM-ETR ETH/IP COMM MODULE	1	521.61	521.61
	A-B 193-EIO-43-120	1	453.16	453.16
	E300/E200 120V (4in/2out) Control Module	1	396.40	396.40
	A-B 592-ESM-VIG-30A-S2 E300/E200 30A SENSING MOD I/O and communication for one starter.			1,371.17
			<b>Total</b>	\$19,035.17

*Past Due Invoices Are Subject To 1.5% Per Month Finance Charge.  
If you have any questions, please call 586.774.9110*



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/16/20</b>
4. SET ID <b>VP200116MVA</b>		
5. POST DATE		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to) <b>CONSUMERS ENERGY</b>	7. VENDOR NUMBER <b>V01038</b>	8. ADDR CODE <b>01</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>203764832650</b>
		10. Invoice Date <b>1/10/2020</b>	11. Invoice Amount <b>700.26</b>

CHILD RECORD DETAIL INFORMATION				19. Amount	20. DIV	21. MISC		
Line	12. Org Key	13. Object	14. Job Ledger		18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC
			14. Cost Center (CCNT)	15. Object				
A	8210017M	92102	CC0004	92102	1000 0005 73113, 12/12-1/9	\$ 700.26	GEN	
B								
C								
D								
E								
F								
G								

23. Total: \$ 700.26

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>HAN</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AB</i>	31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	1/28/2020
28. Managers:	<i>JA</i>	33. Board Date:	2/10/2020
29. Coordinator:	<i>JP</i>	34. Select For Pay Date:	

REV 09/2018



**Questions:**  
Visit: [ConsumersEnergy.com](http://ConsumersEnergy.com)  
Call us: 800-805-0490

Amount Due: **\$700.26**  
Please pay by: **February 04, 2020**

▶ **Thank You** - We received your last payment of **\$736.14** on **December 24, 2019**

▶ **Service Address:**  
23001 E 9 MILE RD  
SAINT CLAIR SHORES MI  
48080-1576

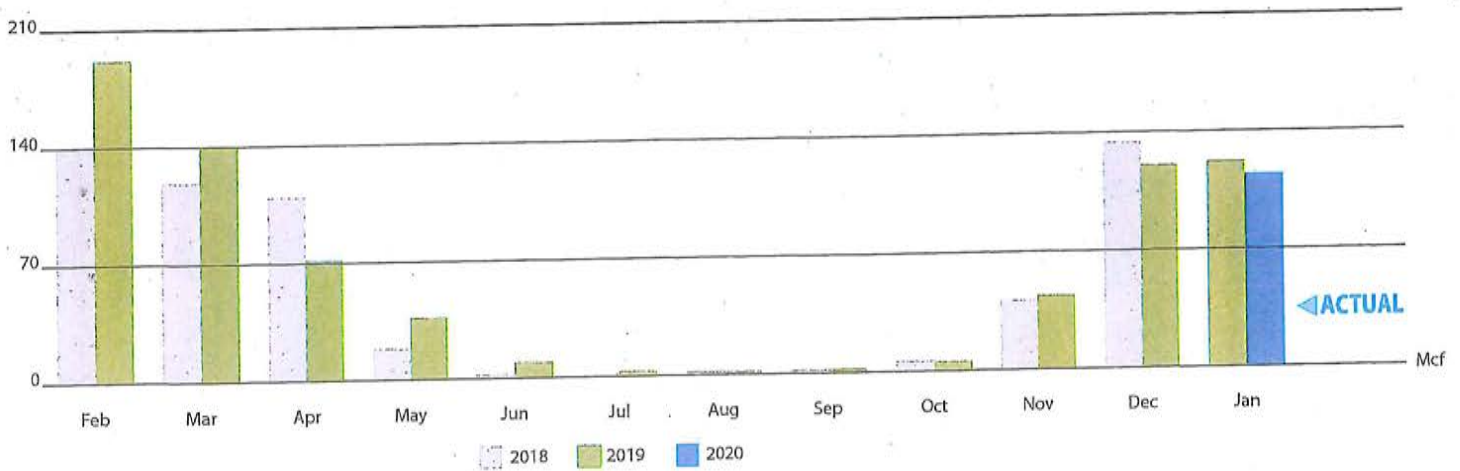
**CHAPTON PUMPING STATION  
MACOMB CO DRAIN COMM  
21777 DUNHAM RD  
CLINTON TOWNSHIP MI 48036-1005**



## January Energy Bill

Service dates: December 12, 2019 - January 09, 2020 (29 days)

### Total Natural Gas Use (Mcf - thousand cubic feet)



**January Natural Gas Use**  
**114.5 Mcf**

**Cost per day:**  
**\$24.15**

**Mcf per day:**  
**3.948**

**Prior 12 months of gas use:**  
**743 Mcf**

For more information, visit [ConsumersEnergy.com/waysstopay](http://ConsumersEnergy.com/waysstopay)

**In person**  
Cash, check, card or money order  
Varies by authorized payment location  
Fee may apply

**By mail**  
Check, money order  
Consumers Energy  
Payment Center  
P.O. Box 740309  
Cincinnati, OH 45274-0309

**Same-day payment**  
886-329-9593  
Discover® MasterCard®  
Visa® or eCheck

**Same-day payment**  
[ConsumersEnergy.com](http://ConsumersEnergy.com)  
Discover® MasterCard®  
Visa® or eCheck

**eLockbox**  
via ACH  
Secure electronic payment with emailed remittance

**Auto-pay**  
Checking or savings  
Auto-pay  
Discover® MasterCard® or Visa®  
(Eligibility varies)

## Ways to pay your energy bill:



Need to talk to us? Visit [ConsumersEnergy.com](http://ConsumersEnergy.com)  
or call **800-805-0490**  
Hearing/speech impaired: Call 7-1-1

**Service Address:**  
23001 E 9 MILE RD; SAINT CLAIR SHORES  
MI 48080-1576  
Account: **1000 0005 7313**

### Account Information

Bill Month: January  
Service dates: 12/12/2019 - 01/09/2020  
Days Billed: 29  
Portion: 12 01/20

### Rate Information

Gas Gen Serv Rate GS-2 - Com  
Rate: 262

### Meter Information

Your next scheduled meter read  
date is on or around 02/10/2020

#### Gas Service:

AMR Meter  
Meter Number: 96483303  
POD Number: 0000003537725  
Beginning Read Date: 12-12  
Ending Read Date: 01-09  
Beginning Read: 7055  
Ending Read: 8188 (Actual)  
Differential: 1133  
Constant: 0.1  
Correction factor: 1.01028  
Usage: 114.5 Mcf

Total Metered Energy Use: 114.5 Mcf

## January Energy Bill

Invoice: 203764832650

### Account Summary

Last Month's Account Balance	\$736.14
Payment on December 24, 2019	\$736.14-
<b>Balance Forward</b>	<b>\$0.00</b>

Payments applied after Jan 13, 2020 are not included.

### Natural Gas Charges

Customer Charge		\$81.86
Gas Distribution	114.5@ 2.449100	\$280.42
Energy Efficiency	114.5@ 0.306700	\$35.12
Gas Cost Recovery	114.5@ 2.645100	\$302.86

**Total Natural Gas \$700.26**

**Total Energy Charges \$700.26**

**Amount Due: \$700.26**  
**by February 04, 2020**

If you pay after the due date, a 2% late payment charge  
will be added to your next bill.

Please make any inquiry or complaint about this bill before the due date listed on the front.  
Visit [ConsumersEnergy.com/aboutmybill](http://ConsumersEnergy.com/aboutmybill) for details about the above charges.

### NEWS AND INFORMATION

Compare natural gas prices among Consumers Energy and other gas providers at [www.Michigan.gov/CompareMIGas](http://www.Michigan.gov/CompareMIGas).

Please see the insert for details on the environmental characteristics of electricity delivered to customers.

Natural gas rate filing. We have filed a request with the

Michigan Public Service Commission in Case U-20650 to adjust natural gas distribution rates. A copy of our filing and explanation of the proposed changes may be viewed at our offices and at <http://efile.mpsc.state.mi.us/efile>. Learn more at [www.ConsumersEnergy.com/ratesbiz](http://www.ConsumersEnergy.com/ratesbiz).

**ALERT - Beware of phone and email scams regarding utility payments:** Consumers Energy never demands

payment using only a prepaid card. Many options at [www.ConsumersEnergy.com/waystopay](http://www.ConsumersEnergy.com/waystopay).

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Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	1/16/20
4. SET ID	5. POST DATE	
VP200116MUA		

6. VENDOR NAME (Check to be issued to)		7. VENDOR NUMBER		8. ADDR CODE		9. Invoice No (MAX = 16 CHARACTERS)		10. Invoice Date		11. Invoice Amount	
CONSUMERS ENERGY		V01038		01		204476773264		1/10/2020		\$ 591.71	

General Ledger			Job Ledger		OPTIONAL		CHILD RECORD DETAIL INFORMATION			
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
A	8210017M	92102	92102	WO18006	8 1/2 MILE RELIEF	AC# 1000 0754 2523, 12/12 - 1/9	\$ 591.71	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ 591.71

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>[Signature]</i>	30. Drain:	8 1/2 MILE RELIEF
26. Chief Deputy:	<i>[Signature]</i>	31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	1/28/2020
28. Managers:	<i>[Signature]</i>	33. Board Date:	2/10/2020
29. Coordinator:	<i>[Signature]</i>	34. Select For Pay Date:	





**Questions:**  
Visit: [ConsumersEnergy.com](http://ConsumersEnergy.com)  
Call us: 800-805-0490

Amount Due: **\$591.71**  
Please pay by: **February 04, 2020**

▶ **Thank You** - We received your last payment of **\$577.57** on **December 24, 2019**

▶ **Service Address:**  
23301 E 9 MILE RD  
SAINT CLAIR SHORES MI  
48080-0000

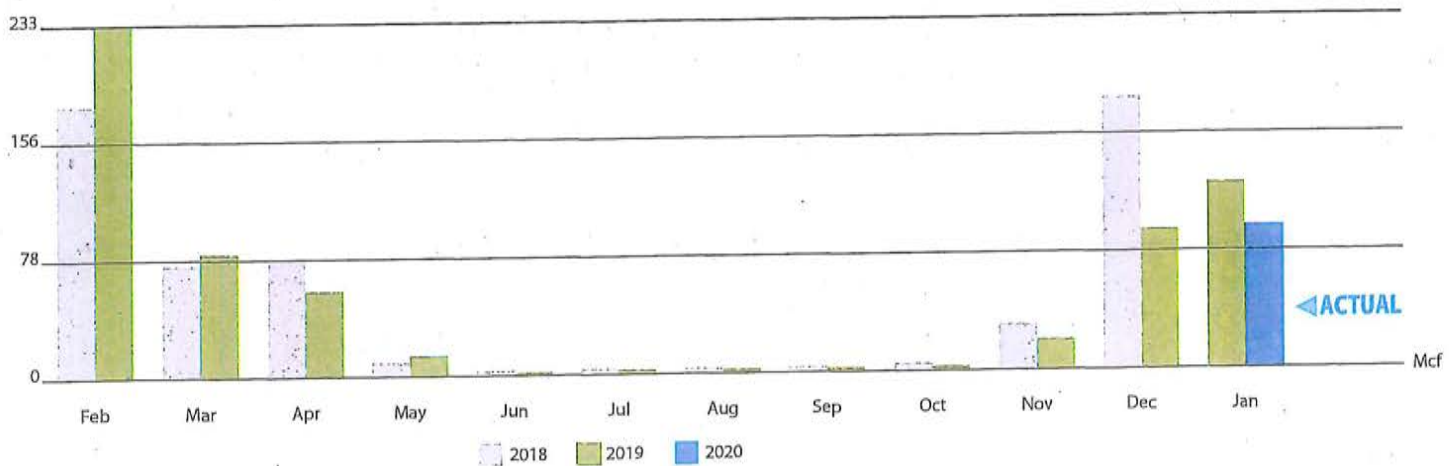
ATTN PUBLIC WORKS  
MACOMB COUNTY  
21777 DUNHAM RD  
CLINTON TOWNSHIP MI 48036-1005



## January Energy Bill

Service dates: **December 12, 2019 - January 09, 2020 (29 days)**

### Total Natural Gas Use (Mcf - thousand cubic feet)



**January Natural Gas Use**  
**94.4 Mcf**  
January 2019 use: 123 Mcf

**Cost per day:**  
**\$20.40**

**Mcf per day:**  
**3.255**

**Prior 12 months of gas use:**  
**605 Mcf**

For more information, visit [ConsumersEnergy.com/waysstopay](http://ConsumersEnergy.com/waysstopay)

**In person**  
Cash, check, card or money order  
Varies by authorized payment location  
Fee may apply

**By mail**  
Check, money order  
Consumers Energy  
Payment Center  
P.O. Box 740309  
Cincinnati, OH 45274-0309

**Same-day payment**  
866-329-9593  
Discover® MasterCard®  
Visa® or eCheck

**Same-day payment**  
[ConsumersEnergy.com](http://ConsumersEnergy.com)  
Discover® MasterCard®  
Visa® or eCheck

**eLockbox**  
via ACH  
Secure electronic payment with emailed remittance

**Auto-pay**  
Checking or savings  
Discover® MasterCard® or Visa®  
(Eligibility varies)

## Ways to pay your energy bill:



Need to talk to us? Visit [ConsumersEnergy.com](http://ConsumersEnergy.com)  
or call 800-805-0490  
Hearing/speech impaired: Call 7-1-1

**Service Address:**  
23301 E 9 MILE RD; SAINT CLAIR SHORES  
MI 48080-0000  
Account: 1000 0754 2523

### Account Information

Bill Month: January  
Service dates: 12/12/2019 - 01/09/2020  
Days Billed: 29  
Portion: 12 01/20

### Rate Information

Gas Gen Serv Rate GS-2 - Com  
Rate: 262

### Meter Information

Your next scheduled meter read  
date is on or around 02/10/2020

#### Gas Service:

AMR Meter  
Meter Number: 98117224  
POD Number: 0000000435095  
Beginning Read Date: 12-12  
Ending Read Date: 01-09  
Beginning Read: 5661  
Ending Read: 6605 (Actual)  
Differential: 944  
Constant: 0.1  
Correction factor: 1.00000  
Usage: 94.4 Mcf  
  
Total Metered Energy Use: 94.4 Mcf

## January Energy Bill

Invoice: 204476773264

### Account Summary

Last Month's Account Balance	\$577.57
Payment on December 24, 2019	\$577.57-
<b>Balance Forward</b>	<b>\$0.00</b>

Payments applied after Jan 13, 2020 are not included.

### Natural Gas Charges

Customer Charge		\$81.86
Gas Distribution	94.4@ 2.449100	\$231.20
Energy Efficiency	94.4@ 0.306700	\$28.95
Gas Cost Recovery	94.4@ 2.645100	\$249.70
<b>Total Natural Gas</b>		<b>\$591.71</b>

### Total Energy Charges

\$591.71

### Amount Due: by February 04, 2020

\$591.71

If you pay after the due date, a 2% late payment charge  
will be added to your next bill.

Please make any inquiry or complaint about this bill before the due date listed on the front.  
Visit [ConsumersEnergy.com/aboutmybill](http://ConsumersEnergy.com/aboutmybill) for details about the above charges.

### NEWS AND INFORMATION

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Please see the insert for details on the environmental characteristics of electricity delivered to customers.

Natural gas rate filing. We have filed a request with the

Michigan Public Service Commission in Case U-20650 to adjust natural gas distribution rates. A copy of our filing and explanation of the proposed changes may be viewed at our offices and at <http://efile.mpsc.state.mi.us/efile>. Learn more at [www.ConsumersEnergy.com/ratesbiz](http://www.ConsumersEnergy.com/ratesbiz).

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**Questions about your bill?** Get an explanation of charges and learn more at [www.ConsumersEnergy.com/business](http://www.ConsumersEnergy.com/business).



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/6/20</b>
4. SET ID <b>VR200107MVA</b>		
5. POST DATE		

6. VENDOR NAME (Check to be issued to) <b>DTE Energy</b>	7. VENDOR NUMBER <b>V01270</b>	8. ADDR CODE <b>08</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>20-017</b>	10. Invoice Date <b>12/31/2019</b>	11. Invoice Amount <b>\$ 501.65</b>
---	-----------------------------------	---------------------------	--	---------------------------------------	--

General Ledger			Job Ledger			OPTIONAL			CHILD RECORD DETAIL INFORMATION		
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK	
A	8210017M	92101	92101	WO18006	8 1/2 Mile Relief	Ac#9100 0005 6739, 12/1-12/31	\$ 501.65	GEN			
B											
C											
D											
E											
F											
G											

23. Total: \$ **501.65**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: *Ham*      30. Drain: 8 1/2 Mile Relief

26. Chief Deputy: *MS*      31. Project Balance: N/A

27. Engineers: \_\_\_\_\_      32. Staff Date: 1/14/2020

28. Managers: *JB*      33. Board Date: 2/10/2020

29. Coordinator: *W*      34. Select For Pay Date: \_\_\_\_\_



Payment Coupon

[Empty box for coupon number]

20-017

MACOMB COUNTY  
21777 DUNHAM RD  
CLINTON TWP MI 48036-1005

Account Number	910000056739
Due Date:	February 03, 2020
Total Due:	\$501.65

Mail Payments to:  
DTE Energy  
P.O. Box 630795  
Cincinnati OH 45263-0795

Please detach and return coupon with account number on check. Agencies are not authorized to accept payment of this bill.

Account Information

[Empty box for account information]

MACOMB COUNTY  
21777 DUNHAM RD  
CLINTON TWP, MI 48036

Account Number	9100-0005-6739
----------------	----------------

DTE-Energy Federal ID No.	38-3217752
---------------------------	------------

Programs you are enrolled in:

How to contact us:

Billing Inquiry 1-734-397-4287

Please make any inquiry or complaint about this bill to DTE Energy before the Due Date.  
DTE Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

Important Information

[Shaded box for important information]



# Summary Of Charges

**Account Number 9100-0005-6739**

Previous Balance as of 12/02/2019	576.97
Payment(s) and Credit(s)	- 576.97
Remaining Balance	\$0.00

## Current Charges

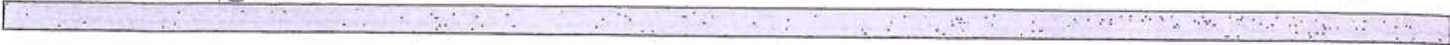
Service Location	Item	Service Type	Rate	Bill Period	Amount
Ref. to ESRI for location	7004422277	Street Lights OH Standard	EFS_E1UOHS	12/01 - 12/31/19	501.65
		Taxes			0.00
		Miscellaneous Charges			0.00
		Current Bill			\$501.65

**Amount Due on or before Due Date of 02/03/2020**

**\$501.65**

Your current charges are due on February 3, 2020. A 2% late payment charge will be applied if paid after the due date.

# Detail Charges



<b>Invoice:</b> 200041933929	<b>Service Name:</b> Streetlight	<b>Cust Ref #</b> 90-M
<b>Item:</b> 7004422277	<b>Cycle:</b> 20	<b>Street Lights OH Stand</b>

## Billing Status Information

Total Number of days in the Billing Period	31	DAYS
Avg Kilowatthours Used Per Day This Period	64	KWH
Avg Kilowatthours Used Per Day A Year Ago	64	KWH
kWh percentage change from a year ago	0	PCT

## Charges for 12/01/2019 through 12/31/2019

### Power Supply Charges:

Energy Charge:					
Power Supply Non Capacity Charge	1,980	KWH	@ \$	0.0454000	Per Total KWH 8
Surcharges:					
Power Supply Cost Recovery Factor	1,980	KWH	@ \$	0.0015600	Per Total KWH
<b>Sub Total:</b>					<b>9</b>

### Delivery Charges:

Luminaire:					
100 Watt High Pressure Sodium	10	EA	@ \$	14.5300000	14
250 Watt High Pressure Sodium	10	EA	@ \$	22.2200000	22
Multiple Lamp Discount	2	EA	@ \$	-0.5100000	-
Surcharges:					
Nuclear Surcharge	1,980	KWH	@ \$	0.0008270	Per Total KWH 1
Energy Optimization Surcharge	1		@ \$	38.5100000	38
Transitional Recovery Mechanism	1,980	KWH	@ \$	0.0010300	Per Total KWH 2
<b>Sub Total:</b>					<b>408</b>

### Invoice Subtotal

Michigan State Sales Tax On Taxable Portion	501.
---	------

### Invoice Total

**\$501.1**





# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

Mark A. Hackel  
County Executive

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	1/15/20
4. SET ID		5. POST DATE
VP2001ISMUA		

### PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
DTE Energy	V01270	08	20-036	1/8/2020	\$ 8,437.82

### CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL		19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)				
A	8210017M	92101	CC0004	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 12/9-1/8	\$ 8,437.82	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 8,437.82

### 24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: Btm

26. Chief Deputy: AD

27. Engineers: UR

28. Managers: UR

29. Coordinator: UR

30. Drain: 8 1/2 Mile Relief

31. Project Balance: N/A

32. Staff Date: 1/28/2020

33. Board Date: 2/10/2020

34. Select For Pay Date: \_\_\_\_\_



**Payment Coupon**

\_\_\_\_\_

Account Number	910000053785
Due Date:	February 03, 2020
Total Due:	\$8,437.82

20-036

MACOMB COUNTY  
MACOMB COUNTY DRAIN COMM  
21777 DUNHAM RD  
CLINTON TWP MI 48036-1005

Mail Payments to:  
DTE Energy  
P.O. Box 630795  
Cincinnati OH 45263-0795

Please detach and return coupon with account number on check. Agencies are not authorized to accept payment of this bill.

**Account Information**

\_\_\_\_\_

MACOMB COUNTY  
MACOMB COUNTY DRAIN COMM  
21777 DUNHAM RD  
CLINTON TWP, MI 48036

Account Number	9100-0005-3785
----------------	----------------

DTE-Energy Federal ID No.	38-3217752
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**Programs you are enrolled in:**

\_\_\_\_\_

**How to contact us:**

Power Outage	See Detail Charges
Billing Inquiry	1-734-397-4309

Please make any inquiry or complaint about this bill to DTE Energy before the Due Date.  
DTE Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

**Important Information**

\_\_\_\_\_





# Summary Of Charges

Account Number 9100-0005-3785

Previous Balance as of 12/10/2019	7,797.75
Payment(s) and Credit(s)	- 7,797.75
Remaining Balance	\$0.00

## Current Charges

Service Location	Item	Service Type	Rate	Bill Period	Amount
23001-E 9 Mile Rd	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	12/09 - 01/08/20	8,437.82
		Taxes			0.00
		Miscellaneous Charges			0.00
		Current Bill			\$8,437.82

Amount Due on or before Due Date of 02/03/2020 **\$8,437.82**

Your current charges are due on February 3, 2020. A 2% late payment charge will be applied if paid after the due date.

# Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 200001996422

Billing Period: 12/09/2019 through 01/08/2020

Days Billed: 31

## Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6321448	12/09	384.4A	01/08	389.2A	4.8	6,400.0000	30,720.0	P - In-V
6321448	12/09	484.6A	01/08	492.2A	7.6	6,400.0000	48,640.0	P - In-W
6321449	12/09	1.3A	01/08	1.4A	0.1	- 6400.000	640.0	P - Out-V
6321449	12/09	0.0A	01/08	0.0A	0.0	- 6400.000	0.0	P - Out-W
6321451	12/09	0.5A	01/08	0.5A	0.0	6,400.0000	0.0	P - In-V
6321451	12/09	0.5A	01/08	0.5A	0.0	6,400.0000	0.0	P - In-W
<b>Total KVARH</b>							<b>31,360.00</b>	
<b>Total KWH</b>							<b>48,640.00</b>	

Invoice: 200001996422	Service Name: Chapaton Pumping Station	General Service Municipal Pumping-Net Metering Cat1
Item: 7004376662	Cycle: 05	

## Billing Status Information

1	On-peak Billing Demand	333	KW	ESTABLISHED	12/17/2019	12:00
3	65% High OP Bill Dmd June-Oct prec 11 mths	1105	KW	ESTABLISHED	09/17/2019	18:00
8	Highest Single Billing Demand	896	KW	ESTABLISHED	12/30/2019	07:00
A	Current PV High Monthly Demand	896	KW	ESTABLISHED	12/30/2019	07:00
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	4956	KW	ESTABLISHED	05/01/2019	04:30
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	85	PCT			
	Total Number of days in the Billing Period	31	DAYS			
	Avg Kilowatthours Used Per Day This Period	1569	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	1493	KWH			
	kWh percentage change from a year ago	5	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	48640	KWH			
	Net Inflow (In - Out)	48640	KWH			

## Charges for 12/09/2019 through 01/08/2020

### Power Supply Charges:

Power Supply Energy:						
Power Supply Capacity Charge	48,640	KWH	@ \$	0.0329700	Per Total KWH	1,603.66
Power Supply Non Capacity Charge	48,640	KWH	@ \$	0.0464000	Per Total KWH	2,256.90
Surcharges:						
Power Supply Cost Recovery Factor	48,640	KWH	@ \$	0.0015600	Per Total KWH	75.88
<b>Sub Total:</b>						<b>3,936.44</b>

### Delivery Charges:

Service Charge						11.25
Distribution:						
Distribution Energy	48,640	KWH	@ \$	0.0386600	Per Total KWH	1,880.42
Surcharges:						
Nuclear Surcharge	48,640	KWH	@ \$	0.0008270	Per Total KWH	40.23
Energy Waste Reduction	2	MTR	@ \$	33.8200000		67.64
LIEAF Factor	2	MTR	@ \$	0.9200000		1.84
<b>Sub Total:</b>						<b>2,001.38</b>
Special Facilities Charge						2,500.00

### Invoice Subtotal

Michigan State Sales Tax On Taxable Portion **8,437.82**

### Invoice Total

**0.00**



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/2/20</b>
4. SET ID <b>VP200103MA</b>		5. POST DATE

<b>PARENT RECORD INFORMATION</b>	
6. VENDOR NAME (Check to be issued to) <b>De-Cal, Inc.</b>	7. VENDOR NUMBER <b>V59694</b>
8. ADDR CODE <b>01</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>WO9192311</b>
10. Invoice Date <b>12/18/2019</b>	11. Invoice Amount <b>\$ 1,339.86</b>

<b>CHILD RECORD DETAIL INFORMATION</b>										
12. Org Key	13. Object	14. Job Ledger								
		15. Object	16. Work Order Number							
17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)									
19. Amount	20. DIV	21. MISC	22. Sep CK							
A. 8210017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	Job #9192311, HVAC Srvc.	\$ 1,339.86	GEN		
B.										
C.										
D.										
E.										
F.										
G.										

23. Total: \$ **1,339.86** REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	<i>MM</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AS</i>	31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	1/14/2020
28. Managers:	<i>MS</i>	33. Board Date:	2/10/2020
29. Coordinator:	<i>KL</i>	34. Select For Pay Date:	



DE-CAL, Inc.  
 24659 Schoenherr Rd.  
 Warren, MI 48089-4775  
 Service Phone: 586-619-0281  
 Service Fax: 586-486-5242

# Service Invoice

Invoice #: WO9192311

Date: 12/18/2019

**Billed To:** Macomb County Chapaton  
 23001 E. 9 Mile Rd.  
 St. Clair Shores MI 48080  
 Attn: Accounts Payable

**Location:** Macomb Chapaton Pumping  
 23001 E. 9 Mile Rd.  
 St. Clair Shores MI 48080

<b>Client PO#:</b>	<b>Employee:</b> Rob Murphy	<b>Due Terms:</b> 30DY
--------------------	-----------------------------	------------------------

Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		See Attached	1.0000	1,339.860000	1,339.86	N

De-Cal Service Group is a division of De-Cal, Inc.

Please Make Checks Payable to: De-Cal, Inc.

Thank you for your prompt payment!

<b>Amount Due: \$ 1,339.86</b>
--------------------------------



# De - Cal Service Group

Commercial & Industrial HVAC Service, Building Automation

Chillers, Boilers, Piping & Plumbing

24659 Schoenherr Rd.

Warren, MI 48089

Phone: 586-619-0281

[www.de-cal.com](http://www.de-cal.com)

Customer Name:	Macomb Chapaton Pump	Date:		De-Cal Job #	9192311
Job Site Location:					
Description Of Work Performed:	Pump making noise			PO #	
				Site Contact:	
<b>LABOR HOURS</b>					
<i>Labor Type</i>	<i>Dates, Technicians</i>	<i>Total Hours</i>		<i>Total</i>	
HVAC Technician		5.0	\$	562.50	
Controls Technician			\$	-	
Boiler Technician			\$	-	
Chiller Technician			\$	-	
OT			\$	-	
DT			\$	-	
Veh/Tool Allowance		1.0	\$	75.00	
<b>MATERIALS/SUBCONTRACTORS UTILIZED</b>					
<i>Unit #</i>	<i>Material Description</i>	<i>Part #</i>	<i>Quantity</i>	<i>Price</i>	
	Consumables		1.0	\$	20.00
	Backflow Fee		1.0	\$	50.00
	Check Valves		1.0	\$	354.96
	Rebuild Kits		1.0	\$	237.64
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
				\$	-
<b>Total Work Order</b>				Material Tax %	\$ 39.76
				<b>Sell For</b>	
				<b>TOTAL BILLING:</b>	\$ 1,339.86

# Service Report

Service Report No : 9192311-1



Date: November 13, 2019

**HVAC Service**

Client P.O. #: N/A

**Further Work Required**

---

<b>Site:</b> Macomb Chapaton Pumping 23001 E. 9 Mile Rd., St. Clair Shores , MI , 48080	<b>Client:</b> Macomb County Chapton 23001 E. 9 Mile Rd., St. Clair Shores , MI , 48080
--	--

**Reason for Call:**

Pump making noise

**Description of Service:**

Investigated the pump noise. Found back flow leaking. Ordered parts

**Technician Work**

Name	Date	Reg. hrs	Prem. hrs
Rob Murphy	Nov 13, 2019	3	0

# Service Report

Service Report No : 9192311-2



Date: November 25, 2019

**HVAC Service**

Client P.O. #: N/A

**Ready to Invoice/Work Complete**

---

**Site:**

**Macomb Chapaton Pumping**  
23001 E. 9 Mile Rd., St. Clair Shores , MI ,  
48080

**Client:**

**Macomb County Chaption**  
23001 E. 9 Mile Rd., St. Clair Shores , MI ,  
48080

**Reason for Call:**

Pump making noise

**Description of Service:**

Rebuilt the leaking backflow and tested. Completed the paperwork and tagged the valve. Left a new rubber rebuild kit attached to the piping for the customers stock

**Technician Work**

Name	Date	Reg. hrs	Prem. hrs
Rob Murphy	Nov 21, 2019	2	0



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/10/20</b>
4. SET ID <b>VP200113MA</b>		5. POST DATE

<b>PARENT RECORD INFORMATION</b>	
6. VENDOR NAME (Check to be issued to) <b>FTCH</b>	7. VENDOR NUMBER <b>V44063</b>
8. ADDR CODE <b>01</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>388581</b>
10. Invoice Date <b>1/7/2020</b>	11. Invoice Amount <b>\$ 8,136.80</b>

CHILD RECORD DETAIL INFORMATION												
Line	General Ledger			Job Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	OPTIONAL							
A	8210017M	80138	CC0004	80138	WO19005	8 1/2 Mile Relief	Pjt #190051 through 12/27/19	\$ 828.97	GEN			
B	8210017M	80138	CC0004	80138	WO19104	8 1/2 Mile Relief	Pjt #190051 (Task 1A) through 12/27/19	\$ 246.00	GEN			0
C	8210017M	80138	CC0004	80138	WO19105	8 1/2 Mile Relief	Pjt #190051 (Task 1B) through 12/27/19	\$ 7,061.83	GEN			0
D												
E												
F												
G												

23. Total: \$ **8,136.80**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:  
**As Needed Services through 12/27/19**

25. Finance Officer: <i>MM</i>	30. Drain: <b>8 1/2 Mile Relief</b>
26. Chief Deputy: <i>AB</i>	31. Project Balance: <b>\$125,293.08</b>
27. Engineers: <i>UB</i>	32. Staff Date: <b>1/28/2020</b>
28. Managers: <i>KK</i>	33. Board Date: <b>2/10/2020</b>
29. Coordinator: <i>KK</i>	34. Select For Pay Date:





**1.A - Task 1a - Chapaton Structural Study**

Rate Labor Class	Hours	Rate	Amount
Senior Engineer	1.50	164.0000	246.00
<b>Total Rate Labor</b>			<b>246.00</b>

**1.B - Task 1b - 9 Mile Pipe Repair (WO19105)**

Rate Labor Class	Hours	Rate	Amount
Senior Engineer	5.00	164.0000	820.00
<b>Total Rate Labor</b>			<b>820.00</b>

Expenses Account / Vendor	Cost	Multiplier	Amount
<b>Subconsultant</b> NTH Consultants Ltd	5,944.60	1.05	6,241.83
<b>Total Expenses</b>			<b>6,241.83</b>
<b>Total Bill Task: 1.B - Task 1b - 9 Mile Pipe Repair (WO19105)</b>			<b>7,061.83</b>

**EN2 - Environmental - Task 2**

Rate Labor Class	Hours	Rate	Amount
Production Support	4.00	70.0000	280.00
Senior Industrial Hygienist	2.00	157.0000	314.00
Staff Technician	0.50	89.0000	44.50
<b>Total Rate Labor</b>			<b>638.50</b>

Expenses Account / Vendor	Cost	Multiplier	Amount
<b>Subconsultant</b> EMLab P&K LLC	181.40	1.05	190.47
<b>Total Expenses</b>			<b>190.47</b>
<b>Total Bill Task: EN2 - Environmental - Task 2</b>			<b>828.97</b>

**Total Project: 190051 - Macomb Co PW/8.5 As-needed Engineering**

**8,136.80**

**MACOMB COUNTY PUBLIC WORKS OFFICE  
ENGINEERING INVOICE COVER SHEET**

<b>WORK ORDER NUMBER</b>	WO19005
<b>PROJECT NUMBER</b>	WWS-2019-001
<b>PROJECT NAME</b>	As-Needed General Engineering Services
<b>DRAINAGE DISTRICT</b>	Eight and One-Half Mile Relief Drain Drainage District
<b>CONSULTANT NAME</b>	Fishbeck
<b>INVOICE DATE</b>	1/2/2020
<b>INVOICE START DATE</b>	11/30/2019
<b>INVOICE END DATE</b>	12/27/2019
<b>ORIGINAL CONTRACT AMOUNT</b>	\$ 151,919.00
<b>CHANGE ORDER TOTAL</b>	\$ 75,000.00
Change Order No. 1	\$ 75,000.00
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
<b>TOTAL REVISED CONTRACT AMOUNT</b>	\$ 226,919.00
(includes all approved change orders only)	
<b>TOTAL AMOUNT PREVIOUSLY INVOICED</b>	\$ 93,489.12
<b>TOTAL AMOUNT DUE THIS INVOICE</b>	\$ 8,136.80
<b>TOTAL BUDGET REMAINING</b>	\$ 125,293.08
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



Mark A. Hackel  
County Executive

# ONEsolution

## ACCOUNTS PAYABLE CHECK REQUEST

### PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/10/20</b>
4. SET ID <b>VP200113MA</b>		
5. POST DATE		

<b>PARENT RECORD INFORMATION</b>	
6. VENDOR NAME (Check to be issued to) <b>FTCH</b>	7. VENDOR NUMBER <b>V44063</b>
8. ADDR CODE <b>01</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>388947</b>
10. Invoice Date <b>1/7/2020</b>	11. Invoice Amount <b>\$ 51,495.51</b>

<b>CHILD RECORD DETAIL INFORMATION</b>										
12. Org Key	13. Object	<b>Job Ledger</b>		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
		14. Cost Center (CCNT)	15. Object							
A	8210017M	80138	CC0004	80138	WO19082	Pjt #191498 thru 12/27/19	\$ 51,495.51	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ **51,495.51**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

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25. Finance Officer: *btm*

26. Chief Deputy: *AS*

27. Engineers: \_\_\_\_\_

28. Managers: *WJ*

29. Coordinator: *PK*

30. Drain: 8 1/2 Mile Relief

31. Project Balance: \$15,556.37

32. Staff Date: 1/28/2020

33. Board Date: 2/10/2020

34. Select For Pay Date: \_\_\_\_\_



**Payment Options**

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829  
 Remit checks to: 1515 Arboretum Drive, SE, Grand Rapids, Michigan 49546  
 Remittance Advice: accounts.receivable@fishbeck.com  
 616.575.3824  
 Federal I.D. No. 38-1841857 | Incorporated

**Attention:** Mr Vincent Astorino  
**Macomb County Public Works Commissioner**  
 21777 Dunham Road  
 Clinton Township, MI 48036  
 United States

**Invoice :** 388947  
**Invoice Date :** 1/7/2020  
**Project :** 191498  
**Project Name :** Macomb Co PW/Chapaton Bldg  
 Renovation  
**Bill Term :** 1

For Professional Services Rendered Through 12/27/2019

WO19082 WWS-2019-016

Fee	% Complete	To Date	Billings	
			Previous	Current
86,000.00	81.91	70,443.63	18,948.12	51,495.51
			<b>Current Billings</b>	<u>51,495.51</u>
			<b>Amount Due This Bill</b>	<u>51,495.51</u>

**Rate Labor**

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Clerical/Production Support	2.00	70.0000	140.00
Engineer	189.00	130.0000	24,570.00
Senior Architect	29.50	155.0000	4,572.50
Senior Engineer	45.00	164.0000	7,380.00
Staff Engineer	13.00	110.0000	1,430.00
Staff Estimator	42.00	84.0000	3,528.00
Technician	104.75	94.0000	9,846.50
<b>Total Rate Labor</b>			<b>51,467.00</b>

**Unit Rate Expenses**

<i>Account / Unit</i>	<i>Quantity</i>	<i>Rate</i>	<i>Amount</i>
<b>Reproduction</b>			
KIP Plotter	142.56	0.2000	28.51
<b>Total Unit Rate Expenses</b>			<b>28.51</b>

**Total Bill Task: 191498 - Macomb Co PW/Chapaton Bldg Renovation** **51,495.51**

**Total Project: 191498 - Macomb Co PW/Chapaton Bldg Renovation** **51,495.51**



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/22/20</b>
4. SET ID <b>VP00122MB</b>		
5. POST DATE		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to) Hamlett Environmental Technologies	7. VENDOR NUMBER V71338	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 2019269
			10. Invoice Date 1/17/2020
			11. Invoice Amount \$ 1,500.00

CHILD RECORD/DETAIL INFORMATION										
Line	General Ledger			Job Ledger		16. Work Order Number	OPTIONAL			21. MISC
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	17. Secondary Reference (MAX = 16 CHARACTERS)		18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	
A	8210017M	80126	CC0004	80126	WO18006	8 1/2 Mile Relief	Product Startup Contract	\$ 1,500.00	GEN	
B										
C										
D										
E										
F										
G										

23. Total: \$ 1,500.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:		30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>PHB</i>	31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	1/28/2020
28. Managers:	<i>UB</i>	33. Board Date:	2/10/2020
29. Coordinator:	<i>PC</i>	34. Select For Pay Date:	



# Hamlett Environmental Technologies

## Invoice

Date	Invoice #
1/17/2020	2019269

Bill To
Macomb County Public Works Finance Department 21777 Dunham Road Clinton Township, MI 40036

905 Gulley Road  
Howell, MI 48843  
Office (517) 545-2500  
Fax (517) 545-3231

S.O. No.	P.O. No.	Terms	Due Date	Rep	Ship Date	Project
US20-0127	PW000048	Net 30	2/16/2020	JW	1/17/2020	Chapaton Pump Station

Description	Qty	Rate	Amount
V-9720003 Product Startup Contract Includes cost of travel and labor for the startup, commissioning, calibration, and training of plant personnel on 3 AMI CODES II TC analyzers.  Service completed on 1/17/20 by Robert Reyes	1	1,500.00	1,500.00

<b>THANK YOU FOR YOUR BUSINESS</b>	<b>Sales Tax (6.0%)</b>	<b>\$0.00</b>
	<b>Total</b>	<b>\$1,500.00</b>





Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	1/13/20
4. SET ID	5. POST DATE	
VP20011SMA		

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
HESCO	V66420	02	10642	1/8/2020	\$ 17,972.00

CHILD RECORD DETAIL INFORMATION												
Line	General Ledger			Job Ledger		16. Work Order Number	OPTIONAL			20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	17. Secondary Reference (MAX = 16 CHARACTERS)		18. Description (MAX = 30 CHARACTERS)	19. Amount				
A	8210017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	Stonkus Hydraulic Cylinder	\$ 12,872.00	GEN			
B	8210017m	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	Field Service	\$ 5,100.00	GEN	0		
C												
D												
E												
F												
G												

23. Total: \$ 17,972.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: BTM      30. Drain: HESCO

26. Chief Deputy: AB      31. Project Balance: N/A

27. Engineers: \_\_\_\_\_      32. Staff Date: 1/28/2020

28. Managers: URS      33. Board Date: 2/13/2020

29. Coordinator: URS      34. Select For Pay Date: \_\_\_\_\_



**Knowledgeable • Professional • Attentive • Likeable**  
 23905 Freeway Park • Farmington Hills, MI 48335  
 Phone: 586.978.7200 • Fax: 586.978.2200  
 www.hesco-mi.com

Invoice No. 10642

Date: 01/08/2020

**Billed To:** Macomb County Public Works  
 Finance Department  
 21777 Dunham Road  
 Clinton Twp MI 48036

**Project:** B2019582S Macomb Chapaton Hydraulic Cylinder

---

**Contact:** P.O.# PW000010 **Due Date:** 02/07/2020

---

Description	Qty	Rate	Amount
Stonkus Hydraulic HP Cylinder	1.000	12,872.00	12,872.00
Field Service	1.000	5,100.00	5,100.00

*Thank you for your prompt payment!*

Non-Taxable Amount:	17,972.00
Taxable Amount:	0.00
Sales Tax:	0.00
<b>Amount Due</b>	<b>17,972.00</b>



# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

**Mark A. Hackel**  
County Executive

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/17/20</b>
4. SET ID <b>VP200117MVA</b>		
5. POST DATE		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to) <b>JCI JONES CHEMICALS INC</b>	7. VENDOR NUMBER <b>V65297</b>	8. ADDR CODE <b>01</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>810984</b>	10. Invoice Date <b>1/15/2020</b>	11. Invoice Amount <b>\$ 7,126.96</b>

CHILD RECORD DETAIL INFORMATION									
Line	General Ledger		Job Ledger		OPTIONAL		21. MISC	22. Sep CK	
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)			18. Description (MAX = 30 CHARACTERS)
A	8210017M	72650	CC0004	72650	WO18006	8 1/2 Mile Relief	Order #599636, 1/15/20	\$ 7,126.96	GEN
B									
C									
D									
E									
F									
G									

23. Total: \$ **7,126.96**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: <u><i>SH</i></u>	30. Drain: <u>8 1/2 Mile Relief</u>
26. Chief Deputy: <u><i>PH</i></u>	31. Project Balance: <u>N/A</u>
27. Engineers: <u></u>	32. Staff Date: <u>1/28/2020</u>
28. Managers: <u><i>UB</i></u>	33. Board Date: <u>2/10/2020</u>
29. Coordinator: <u><i>KK</i></u>	34. Select For Pay Date: <u></u>



www.jcichemicals.com

**INVOICE**

\*\*\* ORIGINAL \*\*\*  
 JCI JONES CHEMICALS, INC..  
 RIVERVIEW BRANCH LOCATION  
 18000 PAYNE AVENUE  
 RIVERVIEW , MI 48192  
 Phone: (734) 283-0677  
 Fax: (734) 283-0979  
 email: cs@jci chem.com

Inv Date	Invoice #
01/15/2020	810984
Date Shipped	Order/BOL #
01/15/2020	599636

Customer Number  
 21543215

S MACOMB COUNTY  
 O ATTN: ACCTS PAYABLE  
 L 23001 9 MILE ROAD  
 D Saint Clair Shores , MI 48080-  
 T USA  
 O

S ID #: 1  
 H CHAPATON PUMPING STATION  
 I 23001 NINE MILE RD  
 P ST CLAIR SHORES , MI 48080-  
 T USA  
 O

Customer PO #		FOB Remark	Freight Terms		Sales ID
VERBAL-CHRIS		Destination	Delivered		NORTH
Release #		Ship Via	Terms	Due Date	Discount Due Date
		Harold Marcu	N 30	02/14/2020	2/14/2020
Units	Package	Product Name	Total Quantity	Unit Price	Amount
7,895.00	1 Gal Bulk	HYPOCHLORITE SOLUTION, SS150 1201-001 BULK (\$85 Stop Fee) (+ fsc)	7,895.0000/Gal	0.9000 /Gal	7,105.50
General Remarks:		<> EMAIL INVOICE TO: michelle.houvener@macombgov.org <> OUTSIDE CARRIER: HAROLD MARCUS NET WEIGHT: 79.800 FSC			
		Fuel Surcharge			21.46

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Total: **7,126.96**

PLEASE PAY  
THIS AMOUNT



Remit To: **JCI Jones Chemicals, Inc.**  
**MSC# 729**  
**PO BOX 830674**  
**Birmingham, AL 35283-0674 USA**



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/8/20</b>
4. SET ID <b>VP200109MA</b>		
5. POST DATE		

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to) Kienbaum Hardy Viviano Pelton & Forrest PLC	7. VENDOR NUMBER V69063	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 43708
			10. Invoice Date 1-8-20
			11. Invoice Amount 787.50

CHILD RECORD/DETAIL INFORMATION				19. Amount	20. DIV	21. MISC	22. Sep CK				
Line	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
A	8210017M	80139	CC0004	80139	WO18006	8 1/2 Mile Relief	Re: 1245-008/Dec 2019	\$ 787.50	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 787.50

REV 06/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: *[Signature]* 30. Drain: 8 1/2 Mile Relief

26. Chief Deputy: *[Signature]* 31. Project Balance: N/A

27. Engineers: \_\_\_\_\_ 32. Staff Date: 1/14/2020

28. Managers: \_\_\_\_\_ 33. Board Date: 2/10/2020

29. Coordinator: *[Signature]* 34. Select For Pay Date: \_\_\_\_\_

**Kienbaum Hardy Viviano Pelton & Forrest, PLC**

Suite 400  
280 N Old Woodward  
Birmingham MI 48009  
Phone No.: (248) 645-0000  
Fax: (248) 645-1385  
Federal Tax ID: 38-3347787

Statement as of 1/8/2020  
Statement no 43708

**MCDPW**

**Macomb County Department of Public Works**  
21777 Dunham Rd  
Clinton Twp MI 48036

1245-008 / 8.5 Mile

<b>Professional Fees</b>			Hours	Rate	Amount
12/06/2019	KMH	Initial review of documentation for engineering agreement with Wade Trim.	0.30	225.00	67.50
12/17/2019	KMH	Communications with client re: multiple contracts; Revise Access Interactive Agreement and related exhibits; Revise ADS Agreement; Update contract spreadsheet.	0.30	225.00	67.50
12/27/2019	KMH	Research for Chapaton and Martin Retention Basins improvement project and confer with team re: same; Review and analysis of Wade Trim project documents; Draft multi-party engineering services agreement with construction administration with Wade Trim.	2.90	225.00	652.50
<b>Sub-total Fees:</b>					<u>\$787.50</u>

**Rate Summary**

Katie M. Hoffman	<u>3.50</u> hours at \$225.00/hr	787.50
Total hours:	3.50	

**Payments**

11/25/2019	Payment	Thank you	<u>270.00</u>
<b>Sub-total Payments:</b>			<u>\$270.00</u>

Total Current Billing:	\$787.50
Previous Balance Due:	\$270.00
Total Payments:	(\$270.00)
<b>Total Now Due:</b>	<u>\$787.50</u>



# ONESolution

## ACCOUNTS PAYABLE CHECK REQUEST

### PUBLIC WORKS DIVISION

Mark A. Hackel  
County Executive

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/8/20</b>
4. SET ID <b>VP200109MA</b>		5. POST DATE

PARENT RECORD INFORMATION			
6. VENDOR NAME (Check to be issued to) Motor City Electric Technologies	7. VENDOR NUMBER V17465	8. ADDR CODE 02	9. Invoice No (MAX = 16 CHARACTERS) 92903
		10. Invoice Date 1/7/2020	11. Invoice Amount \$ 1,014.00

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object							
A	8210017M	93002	CC0014	93002	WO19102	8 1/2 Mile Relief	Job #920501, 11/26/19	\$ 507.00	GEN		
B	8210017M	93002	CC0014	93002		8 1/2 Mile (SEMSD)	Job #920501, 11/26/19	\$ 507.00	GEN		0
C											
D											
E											
F											
G											

23. Total: \$ 1,014.00

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:  
As Needed - SCADA Services - Cable tested, realigned the antenna for optimal performance. Checked weatherproofing and sprayed the coating on the surface of the antenna.

25. Finance Officer: <i>[Signature]</i>	30. Drain: 8 1/2 Mile Relief; SEMSD
26. Chief Deputy: <i>[Signature]</i>	31. Project Balance: \$23,531.00
27. Engineers: <i>[Signature]</i>	32. Staff Date: 1/14/2020
28. Managers: <i>[Signature]</i>	33. Board Date: 2/10/2020
29. Coordinator: <i>[Signature]</i>	34. Select For Pay Date:

# INVOICE

**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\*

Job Number	920501	Sub Job	0	Contract Number	001	Date Performed	11/26/2019	Date	1/7/2020	Application Number	92903
------------	--------	---------	---	-----------------	-----	----------------	------------	------	----------	--------------------	-------

Customer PO Number  
 13030 MACOMB COUNTY PUBLIC WORKS  
 21777 DUNHAM ROAD  
 CLINTON TOWNSHIP, MI 48036

BRENT WELSER

Item No	Description of Work	Contract Amount	Previous Billings	Current Amount	To Date Complete & Stored	Balance To Finish	Current Retainage
001	MISC. T&M	\$1,014.00	-	\$1,014.00	\$1,014.00	-	-
<b>Totals:</b>		<b>\$1,014.00</b>		<b>\$1,014.00</b>	<b>\$1,014.00</b>		
		Less Retained:					
		Invoice Total:		<b>\$1,014.00</b>			

AS NEEDED ELECTRICAL AND ENGINEERING SERVICE  
 SEE ATTACHED INVOICE SUMMARY AND FIELD REPORT

WORK PERFORMED 11/26/2019  
 50% 8 1/2 MILE = \$507.00  
 50% SEMSD = \$507.00  
 - (wo 19102)

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.\*



# Invoice Summary

Macomb County Public Works

Job No: 920501

Invoice No: 92903

Invoice Date: 1/7/2020

Motor City Electric Technologies Inc.  
9440 Grinnell, Detroit, MI 48213-1151

## Invoice Detail

INVOICE DETAIL	ST HRS	OT HRS	DT HRS	COST	TAX	MARKUP	OH & P	INVOICE TOTAL
Equipment				\$114.00		\$0.00	\$0.00	\$114.00
Labor	12.00			\$ 900.00		\$0.00	\$0.00	\$ 900.00
Invoice Totals:	12.00			\$1,014.00		\$0.00	\$0.00	\$1,014.00

## Invoice Detail by Field Report

11/26/2019 St. Clair Shores Public Works

Report Number: G191126-114820	ST HRS	OT HRS	DT HRS	COST	TAX	MARKUP	OH & P	REPORT TOTAL
Equipment				\$114.00		\$0.00	\$0.00	\$114.00
Labor	12.00			\$ 900.00		\$0.00	\$0.00	\$ 900.00
Report Totals:	12.00			\$1,014.00		\$0.00	\$0.00	\$1,014.00

**FIELD REPORT**  
MOTOR CITY ELECTRIC TECHNOLOGIES

REPORT NO: G191126-  
114820

CUSTOMER: Macomb County Public Works DATE: 11/26/2019 MCE JOB NO: 920501 SHEET   OF    
LOCATION OF WORK: St.Clair Shores Public Works CUSTOMER ORDER NO:    
WORK PERFORMED:

We tested the cable to make sure it was good. We then realigned the antenna for optimal performance. Checked the weatherproofing and sprayed the coating on the surface of the antenna. Went across the street with the truck and checked the weatherproofing and sprayed the surface of the antenna.

**LABOR**

LABOR CLASSIFICATION / NAME	STRAIGHT TIME			TIME AND ONE HALF			DOUBLE TIME			TOTAL
	HRS	RATE	COST	HRS	RATE	COST	HRS	RATE	COST	
<i>Subtotal:</i>									<i>\$900.00</i>	
<i>Field Labor</i>										
Witcomb, Nick	4.00	\$75.00	\$300.00		\$105.00	\$0.00		\$0.00	\$0.00	\$300.00
Mazurek, Matt	4.00	\$75.00	\$300.00		\$105.00	\$0.00		\$0.00	\$0.00	\$300.00
Thaxton, Don	4.00	\$75.00	\$300.00		\$105.00	\$0.00		\$0.00	\$0.00	\$300.00
<b>TOTAL:</b>									<b>\$900.00</b>	

**EQUIPMENT**

QTY	DESCRIPTION	UNIT COST	U/M	EXTENDED COST
4.00	Bucket Truck	\$9.50		\$38.00
8.00	Service Truck/Van	\$9.50		\$76.00
<b>TOTAL:</b>				<b>\$114.00</b>

REPORT SUMMARY	ST HRS	OT HRS	DT HRS	COST	TAX	MARKUP	OH & P	REPORT TOTAL
Equipment				\$114.00		\$0.00	\$0.00	\$114.00
Labor	12.00			\$900.00		\$0.00	\$0.00	\$900.00
<b>REPORT TOTALS:</b>	<b>12.00</b>			<b>\$1,014.00</b>		<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,014.00</b>



# FIELD REPORT

MOTOR CITY ELECTRIC TECHNOLOGIES - (313) 921-5300/FAX (313) 923-5310

CUSTOMER: Macomb DATE: Nov 26, 2019 JOB NO: 920501 SHEET 1 OF 1

LOCATION OF WORK: St Clair Shores Public Works CUSTOMER ORDER NO:

WORK PERFORMED: We tested the cable to make sure it was good. We then realigned the antenna for optimal performance. We checked the weatherproofing and sprayed the coating on the surface of the antenna. We went across the street with the truck and checked the weatherproofing and sprayed the surface of the antenna.

### LABOR

	NAME	TRUCK NO.	CLASSIFICATION	STRAIGHT TIME	TIME AND ONE HALF	DOUBLE TIME	SHIFT	COMMENTS
1	Don Thaxton	9048	TECHNICIAN	4.00	0.00	0.00	1	
2	Matt Mazurick	9042	TECHNICIAN	4.00	0.00	0.00	1	
3	Nick Witcomb	05-171	OPERATOR	4.00	0.00	0.00	1	100' bucket truck
4								
5								
6								
TOTAL HOURS				<u>12.00</u>	<u>0.00</u>	<u>0.00</u>		

### EQUIPMENT

	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
1	Service Truck	2	6 < None >	0	11	
2	Pick Up Truck	0	7		12	
3	Rolling Set Up	0	8		13	
4	Manlift Scissors to 25'	0	9		14	100' bucket truck
5	Manlift Boom to 40'	0	10		15	tower gear

### MATERIALS

QTY	DESCRIPTION	PRICE	PER	EXTENSION
0				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
LOT	EXPENDABLES		LOT	
MATERIAL TOTAL				<u>\$0.00</u>

BY: \_\_\_\_\_ DATE \_\_\_\_\_ BY: \_\_\_\_\_ DATE \_\_\_\_\_  
 (SUPERVISOR SIGNATURE) (AUTHORIZED SIGNATURE)

Donald Thaxton \_\_\_\_\_  
 (PRINT NAME) (PRINT NAME)



Mark A. Hackel  
County Executive

# ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

## PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/10/20</b>
4. SET ID <b>VP200113MA</b>		5. POST DATE

6. VENDOR NAME (Check to be issued to) <b>Tetra Tech, Inc.</b>		7. VENDOR NUMBER <b>V16060</b>	8. ADDR CODE <b>02</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>51540373</b>	10. Invoice Date <b>1/10/2020</b>	11. Invoice Amount <b>\$ 60,213.92</b>
---	--	-----------------------------------	---------------------------	--	--------------------------------------	---

PARENT RECORD INFORMATION				CHILD RECORD DETAIL INFORMATION						
General Ledger		Job Ledger		OPTIONAL						
12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object	16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
A	8210017M	80138	80138	WO19085	8 1/2 Mile Relief	Pjt #200-16347-19001 thru 12/27/19	\$ 60,213.92	GEN		
B										
C										
D										
E										
F										
G										

23. Total: \$ **60,213.92**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:  
In-System Storage Devices

25. Finance Officer:	<i>DM</i>	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:	<i>AS</i>	31. Project Balance:	\$216,446.74
27. Engineers:	<i>UB</i>	32. Staff Date:	1-28-20
28. Managers:	<i>KL</i>	33. Board Date:	2/10/2020
29. Coordinator:		34. Select For Pay Date:	

**MACOMB COUNTY PUBLIC WORKS OFFICE  
ENGINEERING INVOICE COVER SHEET**

**WORK ORDER NUMBER** WO19085

**PROJECT NUMBER** WWS-2019-003 (Tetra Tech# 200-16347-19001)

**PROJECT NAME** In-System Storage Devices

**DRAINAGE DISTRICT** Eight and One-Half Mile Relief Drain Drainage District

**CONSULTANT NAME** Tetra Tech of Michigan

**INVOICE DATE** 1/10/2020 (Invoice 51540373)

**INVOICE START DATE** 11/23/2019

**INVOICE END DATE** 12/27/2019

<b>ORIGINAL CONTRACT AMOUNT</b>	\$ 481,098.00
<b>CHANGE ORDER TOTAL</b>	\$ -
Change Order No. 1	
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
<b>TOTAL REVISED CONTRACT AMOUNT</b>	\$ 481,098.00
(includes all approved change orders only)	
<b>TOTAL AMOUNT PREVIOUSLY INVOICED</b>	\$ 204,437.34
<b>TOTAL AMOUNT DUE THIS INVOICE</b>	\$ 60,213.92
<b>TOTAL BUDGET REMAINING</b>	\$ 216,446.74
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



**Tetra Tech, Inc.**  
 424 Lewis Hargett Cir.  
 Ste. 110  
 Lexington, KY 40503  
 (859) 223-8000

**BILL TO:** MACOMB COUNTY  
**ATTN:** FINANCE DEPARTMENT  
 OFFICE OF PUBLIC WORKS  
 COMMISSIONER  
 21777 DUNHAM RD  
 PO BOX 806  
 CLINTON TOWNSHIP, MI 48036

**INVOICE NUMBER:** 51540373  
**INVOICE DATE:** 01/10/2020  
**SERVICES THROUGH:** 12/27/2019  
**FEDERAL TAX ID#:** 95-4148514  
**TERMS:** NET 30

ESA dated 10 July 2019  
 Client Contact: Vince Astorino. Email vincent.astorino@macombgov.org

**PROFESSIONAL SERVICES:**

Project Number	200-16347-19001	In-System Storage Devices		
Top Task	01AS	Project Management Subcontractors		CURRENT AMOUNT
<b>SUBCONTRACTOR</b>		<b>TYPE</b>		
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External		\$700.00
<b>TOTAL SUBCONTRACTOR CHARGES</b>				<b>\$700.00</b>
			<b>SUBTOTAL</b>	<b>\$700.00</b>
			<b>Total Top Task# 01AS</b>	<b>\$700.00</b>

Top Task	01BS	Infrastructure Survey Subcontractors		
				CURRENT AMOUNT
<b>SUBCONTRACTOR</b>		<b>TYPE</b>		
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External		\$1,299.00
FK ENGINEERING ASSOCIATES		Subcontractor-External		\$7,851.60
<b>TOTAL SUBCONTRACTOR CHARGES</b>				<b>\$9,150.60</b>
			<b>SUBTOTAL</b>	<b>\$9,150.60</b>
			<b>Total Top Task# 01BS</b>	<b>\$9,150.60</b>

Top Task	01CS	Utility Survey Subcontractors		
				CURRENT AMOUNT
<b>SUBCONTRACTOR</b>		<b>TYPE</b>		
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External		\$9,981.00
<b>TOTAL SUBCONTRACTOR CHARGES</b>				<b>\$9,981.00</b>
			<b>SUBTOTAL</b>	<b>\$9,981.00</b>
			<b>Total Top Task# 01CS</b>	<b>\$9,981.00</b>

Top Task	01D	Basis of Design			
			CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
<b>EMPLOYEE</b>		<b>TITLE</b>			
Fortier, Véronique		Sr Modeler	0.25	\$210.00	\$52.50
Geerlings, Eric P.		Project Engineer 1	104.00	\$155.00	\$16,120.00
Irgang, Laura M.		Project Engineer 1	68.50	\$155.00	\$10,617.50
Kaliman, Roger G.		Sr Engineer 1	33.50	\$180.00	\$6,030.00
Lopez Lopez, Daniela S.		Engineer 2	11.00	\$125.00	\$1,375.00
Rubel, Brian M.		Program Manager	22.00	\$225.00	\$4,950.00

**BILL TO:** MACOMB COUNTY  
**ATTN:** FINANCE DEPARTMENT  
 OFFICE OF PUBLIC WORKS  
 COMMISSIONER  
 21777 DUNHAM RD  
 PO BOX 806  
 CLINTON TOWNSHIP, MI 48036

**INVOICE NUMBER:** 51540373  
**INVOICE DATE:** 01/10/2020  
**SERVICES THROUGH:** 12/27/2019  
**FEDERAL TAX ID#:** 95-4148514  
**TERMS:** NET 30

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Voss, Justin D.	Project Engineer 1	7.50	\$155.00	\$1,162.50
<b>TOTAL LABOR</b>		<b>246.75</b>		<b>\$40,307.50</b>
		<b>SUBTOTAL</b>		<b>\$40,307.50</b>

OTHER DIRECT CHARGES	TYPE	CURRENT QUANTITY	UNIT RATE	CURRENT AMOUNT
Rubel, Brian M.	Mileage (unit)	129.00	\$0.58	\$74.82
<b>TOTAL OTHER DIRECT CHARGES</b>				<b>\$74.82</b>
		<b>SUBTOTAL</b>		<b>\$74.82</b>

**Total Top Task# 01D** \$40,382.32  
**Total Project# 200-16347-19001** \$60,213.92

**TOTAL AMOUNT DUE THIS INVOICE:** \$60,213.92

Gross Contract Summary	
Contract Amount	\$481,098.00
Previously Billed	\$204,437.34
Current Billing	\$60,213.92
Total Billed to Date	\$264,651.26
Contract Balance Remaining	\$216,446.74

**REMIT PAYMENT TO:**  
**TETRA TECH, INC.**  
**PO BOX 911967**  
**DENVER, CO 80291-1967**

To ensure accurate posting, please note the invoice number on your check. Interest will be charged on all past-due amounts per contract terms and conditions.



# fishbeck

Engineers | Architects | Scientists | Constructors

**Payment Options**  
 Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829  
 Remit checks to: 1515 Arboretum Drive, SE, Grand Rapids, Michigan 49546  
 Remittance Advice: accounts.receivable@fishbeck.com  
 616.575.3824  
 Federal I.D. No. 38-1841857 | Incorporated

Attention: Brian Rubel PE  
 Tetra Tech Mps  
 710 Avis Drive Suite 100  
 Ann Arbor, MI 48108  
 United States

Invoice: 387852  
 Invoice Date: 12/9/2019  
 Project: 190884  
 Project Name: Macomb Co PW/In-system Storage  
 Bill Term: 1

For Professional Services Rendered Through 11/29/2019

P.O. 1166522: X

	Fee	Available	To Date	Previous	Current	
1.A - Task 1A - 8.5 Mile Project Management	5,000.00	2,991.15	2,708.85	2,008.85	(3)	700.00 .01AS
Rate Labor		700.00				
1.B - Task 1B - 8.5 Mile Infrastructure Survey	66,655.00	4,274.45	63,679.55	62,380.55	(2)	1,299.00 .01BS
Rate Labor		1,299.00				
1.C - Task 1C - 8.5 Mile Utility Survey	16,964.00	16,964.00	9,981.00	0.00	(4)	9,981.00 .01CS
Rate Labor		7,171.00				
Expenses		2,173.50				
Unit Rate Expense		636.50				
Total Expense		2,810.00				
1.D - Task 1D - 8.5 Mile BOD	23,248.00	23,248.00	0.00	0.00		0.00
				<b>Current Billings</b>		<u>11,980.00</u>
				<b>Amount Due This Bill</b>		<u>11,980.00</u>

#103976

200-16347-19001.XXX

SUB-EXT  
 200 NEW RA

OK to pay when paid  
 B. Rubel  
 12/9/19

200-16347-19001





1.A - Task 1A - 8.5 Mile Project Management

Rate Labor Class	Hours	Rate	Amount
Senior Engineer	4.00	175.0000	700.00
<b>Total Rate Labor</b>			<b>700.00</b>

1.B - Task 1B - 8.5 Mile Infrastructure Survey

Rate Labor Class	Hours	Rate	Amount
Engineer	11.00	110.0000	1,210.00
Staff Engineering Specialist	1.00	89.0000	89.00
<b>Total Rate Labor</b>			<b>1,299.00</b>

Total Bill Task: 1.B - Task 1B - 8.5 Mile Infrastructure Survey

1,299.00

1.C - Task 1C - 8.5 Mile Utility Survey

Rate Labor Class	Hours	Rate	Amount
Production Support	1.00	70.0000	70.00
Senior Surveyor	40.00	130.0000	5,200.00
Staff Technician	21.00	73.0000	1,533.00
	4.00	92.0000	368.00
<b>Total Staff Technician</b>	25.00		1,901.00
<b>Total Rate Labor</b>			<b>7,171.00</b>

Expenses Account / Vendor	Cost	Multiplier	Amount
Subconsultant Liberty Title Agency	2,070.00	1.05	2,173.50
<b>Total Expenses</b>			<b>2,173.50</b>

Unit Rate Expenses Account / Unit	Quantity	Rate	Amount
Company Vehicle Use Mileage - Company Vehicle	670.00	0.9500	636.50
<b>Total Company Vehicle Use</b>			<b>636.50</b>
<b>Total Unit Rate Expenses</b>			<b>636.50</b>

Total Bill Task: 1.C - Task 1C - 8.5 Mile Utility Survey

9,981.00

Total Project: 190884 - Macomb Co PW/In-system Storage

11,980.00



FK Engineering Associates  
 30425 Stephenson Hwy  
 Madison Heights, MI 48071  
 (248) 817-2946

**INVOICE**

Invoice Date: 12/06/19  
 Total Amount: \$7,851.60  
 Number: 19-102-001  
 Invoice Period: 06/19/19 - 11/30/19  
 PO Number: **110682611**  
 Project Code: 19-102  
 Project: Macomb In-Line Storage

Tetra Tech  
 Brian Rubel  
 710 Avis Drive - Suite 100  
 Ann Arbor, MI 48108

**INVOICE SUMMARY**

Description	Amount
Task 1 - Study Phase.	\$3,819.00
Task 1 - Study Phase Expenses.	\$4,032.60

Description	Total Budget	Remaining Budget (\$)	Prior Billing (\$)	This Invoice (\$)
Task 1 - Study Phase	\$20,000.00	\$12,148.40	--	\$7,851.60
Task 2 - Design Phase	\$87,874.00	\$87,874.00	--	--
	--	--	--	--
<b>BUDGET TOTALS</b>	<b>\$107,874.00</b>	<b>\$100,022.40</b>	<b>--</b>	<b>\$7,851.60</b>
<b>TOTAL AMOUNT DUE</b>				<b>\$7,851.60</b>

Remit payment to:  
 30425 Stephenson Hwy, Madison Heights, MI 48071  
 Terms: Due upon receipt or per contract

# 184671  
 OK to pay when paid.  
 B. Rubel  
 12/27/19  
 200-16347-19001.01BS  
 SUB. EXT. 200 IEW AA





**FK Engineering Associates**  
 30425 Stephenson Hwy  
 Madison Heights, MI 48071  
 (248) 817-2946

**INVOICE**

**Tetra Tech**  
 Brian Rubel  
 710 Avis Drive - Suite 100  
 Ann Arbor, MI 48108

Invoice Date: 12/06/19  
 Total Amount: \$7,851.60  
 Number: 19-102-001  
 Invoice Period: 06/19/19 - 11/30/19  
 PO Number:  
 Project Code: 19-102  
 Project: Macomb In-Line Storage

**INVOICE DETAILS**

Source	Date	Code	Hrs / Qnt	Rate	Amount
<b>Professional Fees</b>					
Zachary Carr	06/17/19	02-Principal Engineer/Officer	2.00	\$145.00	\$290.00
Margaret O'Reilly	06/19/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
Margaret O'Reilly	06/19/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
Zachary Carr	06/24/19	02-Principal Engineer/Officer	0.25	\$145.00	\$36.25
Margaret O'Reilly	07/18/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
Margaret O'Reilly	07/30/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
Zachary Carr	08/27/19	02-Principal Engineer/Officer	0.50	\$145.00	\$72.50
Zachary Carr	10/17/19	02-Principal Engineer/Officer	0.50	\$145.00	\$72.50
Zachary Carr	10/18/19	02-Principal Engineer/Officer	1.00	\$145.00	\$145.00
Margaret O'Reilly	10/24/19	09-Administrative Assistant	0.25	\$55.00	\$13.75
Courtney Muchez	10/25/19	11-Engineering Tech 3	0.50	\$57.00	\$28.50
Zachary Carr	11/04/19	02-Principal Engineer/Officer	0.50	\$145.00	\$72.50
Peter Wenderski	11/04/19	06-Staff Engineer	0.50	\$85.00	\$42.50
Peter Wenderski	11/05/19	06-Staff Engineer	7.00	\$85.00	\$595.00
Zachary Carr	11/05/19	02-Principal Engineer/Officer	0.50	\$145.00	\$72.50
Zachary Carr	11/06/19	02-Principal Engineer/Officer	0.50	\$145.00	\$72.50
Peter Wenderski	11/06/19	06-Staff Engineer	5.50	\$85.00	\$467.50
Peter Wenderski	11/08/19	06-Staff Engineer	5.50	\$85.00	\$467.50
Peter Wenderski	11/11/19	06-Staff Engineer	0.75	\$85.00	\$63.75
Peter Wenderski	11/12/19	06-Staff Engineer	4.25	\$85.00	\$361.25
Peter Wenderski	11/13/19	06-Staff Engineer	4.75	\$85.00	\$403.75
Paul Wakefield	11/13/19	04-Project Engineer	1.50	\$112.00	\$168.00
Peter Wenderski	11/14/19	06-Staff Engineer	2.75	\$85.00	\$233.75
Peter Wenderski	11/15/19	06-Staff Engineer	1.00	\$85.00	\$85.00
<b>Task 1 - Study Phase</b>			<b>41.00</b>		<b>\$3,819.00</b>
<b>Professional Fees</b>			<b>41.00</b>		<b>\$3,819.00</b>
<b>Reimbursable Expenses</b>					
Zachary Carr	06/17/19	PR- Car Mileage	20.00	\$0.65	\$13.00



FK Engineering Associates  
 30425 Stephenson Hwy  
 Madison Heights, MI 48071  
 (248) 817-2946

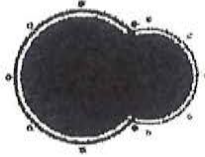
**INVOICE**

Invoice Date: 12/06/19  
 Total Amount: \$7,851.60  
 Number: 19-102-001  
 Invoice Period: 06/19/19 - 11/30/19  
 PO Number:  
 Project Code: 19-102  
 Project: Macomb In-Line Storage

Tetra Tech  
 Brian Rubel  
 710 Avis Drive - Suite 100  
 Ann Arbor, MI 48108

**INVOICE DETAILS**

Source	Date	Code	Hrs / Qnt	Rate	Amount
Zachary Carr	11/05/19	PR- Car Mileage	20.00	\$0.65	\$13.00
Peter Wenderski	11/05/19	PR- Car Mileage	40.00	\$0.65	\$26.00
Peter Wenderski	11/06/19	PR- Car Mileage	26.00	\$0.65	\$16.90
Peter Wenderski	11/06/19	PR-Water Level Indicator Daily	1.00	\$40.00	\$40.00
Peter Wenderski	11/13/19	LT 020-Atterberg Limits	2.00	\$35.00	\$70.00
Peter Wenderski	11/13/19	LT 110-Unconfined Compression Test (Controlled Strain) Linear	9.00	\$22.50	\$202.50
Admin -	11/30/19	PR-Subcontractor Expense	3,260.00	\$1.12	\$3,651.20
		Task 1 - Study Phase	3,378.00		\$4,032.60
		Reimbursable Expenses	3,378.00		\$4,032.60
		<b>TOTAL FEES/EXPENSES</b>	--		<b>\$7,851.60</b>



# 7NT

FK ENGINEERING ASSOCIATES  
MR. ZACH CARR  
30425 STEPHENSON HWY  
MADISON HEIGHTS, MI 48071

REMIT TO:  
7NT ENGINEERING, LLC  
3090 SOUTH TECH BLVD  
MIAMISBURG, OH 45342

DATE 12/02/2019

INVOICE #3990 FOR JOB #D191-MI  
MCPWO IN-LINE STORAGE

CONTRACT SERVICES	CONTRACT AMOUNT	PERCENT COMPLETE	PREVIOUSLY INVOICED	CURRENT FEE
DRILLING SERVICES	\$3,260.00	100%	\$0.00	\$3,260.00

TOTAL CONTRACT SERVICES DUE THIS INVOICE

\$3,260.00

19-102 (Task 1)  
\$3,260.00  
Zach Carr  
12/3/19

RECEIVED  
DEC 3 2019  
MI

12/3/19

**MCPWO Inline Storage D191-MI Invoice**

Description	Unit	Quantity	Unit Rate	Cost
Mobilization, Setup, Truck rig	rig	1	\$ 600.00	\$ 600.00
Drilling 0-50' standard sampling	ft	100.0	\$ 14.00	\$ 1,400.00
Drilling 50-100' standard sampling	ft	25.0	\$ 16.50	\$ 412.50
Grouting	ft	75.0	\$ 8.00	\$ 600.00
Backfilling with cuttings	lf	50	\$ 4.95	\$ 247.50
			<b>Total</b>	<b>\$ 3,260.00</b>



# PROJECT STATUS COMMUNICATION

DATE: December 30, 2019

PREPARED BY: Brian Rubel / Eric Geerlings

PROJECT: Macomb Co. In-System Storage Devices

Tt PROJECT NO: 200-16347-19001 CONTACT: Mr. Vince Astorino  
(INVOICE 51540373)

### Tasks completed or in-progress since last status communication.

#### December Updates:

The boundary survey field work for the Welsh Family Park site was completed in early December.  
A draft of the as-built survey drawing for the 8 1/2 Mile Relief Drain was completed and provided to MCPWO for comment.  
A draft of the geotechnical report for the two soil borings at Welsh Family Park was completed and provided to MCPWO for comment.  
Developed two storage structure designs that used inflatable hinge gates (adjustable height weirs) per MCPWO's request.  
Design storm hydraulics were estimated for three storage structure options. This enabled risk analysis and comparison to State Standards.  
On December 18<sup>th</sup>, held a face to face monthly meeting with MCPWO to review storage structure headloss and system hydraulics.  
On December 27<sup>th</sup>, Easement and Title work files were uploaded to the DropBox.

### Opportunities for cost avoidance or added value.

### Impediments, roadblocks, assistance needed.

Tetra Tech anticipates receiving detailed design information from MCPWO for the Chapaton Pump Station project. The expected modifications to pump setpoint levels are relevant to SWMM modeling of storm events and Real Time Control (RTC) schemes. Additional information about MCPWO instrumentation preferences are anticipated whenever decisions are made for other ongoing MCPWO projects.

### Change (or potential change) of scope items or customer concession. (Details on attached Request to Change Authorization)

The Nine Mile portion of the study was dropped and may cause inefficiencies in completing the 8.5 Mile study. Tetra Tech will monitor this as the study proceeds.

On December 19<sup>th</sup>, MCPWO requested a better understanding of the storage values and hydraulic losses for inflatable dam designs. These device options were only considered at a high level previously because they did not achieve MCPWO's initial storage goals.

### Schedule:

January 23<sup>rd</sup> is the next scheduled Progress Meeting. The study was scheduled for completion in February, but the December 19<sup>th</sup> MCWPO request to shift focus to inflatable dam options may cause delays in the schedule. For example, coordination with EGLE regarding the scope of the project will need to be postponed until MCPWO decides to proceed.

### Next task or action items.

1. Complete and deliver results of the Utility and Boundary Survey.
2. Complete Community Enhancement Design and Landscape Architecture.
3. Complete Control Structure Selection after completing review of inflatable dam designs.
4. Complete Transient Evaluation including the need for venting.
5. Finalize Risk Analysis.
6. Complete Feasibility Analysis.
7. Complete RTC Analysis.
8. Initiate Animated 3D Model.

Please do not hesitate to contact any member of our Team at any time.

Brian Rubel Phone: (734) 213-4081 Email: Brian.Rubel@tetrattech.com  
Project Manager



Mark A. Hackel  
County Executive

# ONESolution

## ACCOUNTS PAYABLE CHECK REQUEST

### PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) <b>Michelle Houvener</b>	2. PHONE # <b>95966</b>	3. DATE <b>1/6/20</b>
4. SET ID <b>VP200107MA</b>		5. POST DATE

6. VENDOR NAME (Check to be issued to) <b>Wade Trim</b>		7. VENDOR NUMBER <b>V09446</b>	8. ADDR CODE <b>02</b>	9. Invoice No (MAX = 16 CHARACTERS) <b>2016836</b>	10. Invoice Date <b>1/3/2020</b>	11. Invoice Amount <b>\$ 63,603.78</b>
--	--	-----------------------------------	---------------------------	---	-------------------------------------	---

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	17. Secondary Reference (MAX = 16 CHARACTERS)	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object							
A	8210017C	80138	CC0004	80138	WO19004	8 1/2 Mile Relief	Pjt #MCW200501T, 11/30-12/20	\$ 63,603.78	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ **63,603.78**

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:  
**Chapaton RTB Canal Upgrades, 11/30-12/30**

25. Finance Officer:	<i>[Signature]</i>	30. Drain:	<b>8 1/2 Mile Relief</b>
26. Chief Deputy:	<i>[Signature]</i>	31. Project Balance:	<b>\$188,082.69 (Grant Balance: \$2,135,471.69)</b>
27. Engineers:	<i>[Signature]</i>	32. Staff Date:	<b>1/14/2020</b>
28. Managers:	<i>[Signature]</i>	33. Board Date:	<b>2/10/2020</b>
29. Coordinator:	<i>[Signature]</i>	34. Select For Pay Date:	





25251 Northline Road • Taylor, MI 48180  
734.947.9700 • www.wadetrtrim.com

# INVOICE

Terms: Net 30 Days  
1.5% Per Month After 30 Days  
18% Annual Rate

ACH payments accepted. Send inquiries to remit@wadetrtrim.com

Remit Payment To: Wade Trim, 25251 Northline Road, Taylor, MI 48180

Attention: Vince Astorino  
Operations and Flow Manager  
Macomb County Public Works  
21777 Dunham Road  
Clinton Township, MI 48036

Invoice : 2016836  
Invoice Date : 1/3/2020  
Project : MCW200501T  
Project Name : Chapaton RTB Canal Upgrades

**For Professional Services Rendered For 11/30/2019 Through 12/20/2019**

\*\* All subconsultant invoices marked up 5% \*\*

		<u>Billings</u>				
		<u>Fee</u>	<u>Available</u>	<u>To Date</u>	<u>Previous</u>	<u>Current</u>
		1,052,611.00	251,686.47	864,528.31	800,924.53	63,603.78
<i>Rate Labor</i>	46,325.00					
<i>Expenses</i>	17,203.72					
<i>Unit Rate Expense</i>	75.06					
<i>Total Expense</i>	17,278.78					
						<u>63,603.78</u>
						<u>63,603.78</u>

**Total Fee :** 1,052,611.00  
**To Date Billings :** 864,528.31  
**Total Remaining :** 188,082.69 ✓

**1A1 - Project Management**

**Rate Labor**

<u>Class / Employee</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>Senior Professional</b>				
John Arvai	12/2/2019	2.00	215.0000	430.00
	12/4/2019	1.00	215.0000	215.00
	12/5/2019	0.50	215.0000	107.50
	12/6/2019	1.00	215.0000	215.00
	12/9/2019	2.00	215.0000	430.00
	12/10/2019	1.00	215.0000	215.00
	12/13/2019	2.00	215.0000	430.00
	12/16/2019	2.00	215.0000	430.00
	12/19/2019	1.00	215.0000	215.00
		-----		-----
		12.50		2,687.50
<b>Total Senior Professional</b>				<b>2,687.50</b>
			<b>Total Rate Labor</b>	<b>2,687.50</b>
<b>Total Bill Task: 1A1 - Project Management</b>				<b>2,687.50</b>

**1A2 - Project Management Support**

**Rate Labor**

<u>Class / Employee</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>Professional Engineer IV</b>				
Oskar E Nordstrom	12/3/2019	0.50	190.0000	95.00
<b>Project Aide II</b>				
Melanie A Phillips	12/16/2019	1.00	95.0000	95.00
			<b>Total Rate Labor</b>	<b>190.00</b>
<b>Total Bill Task: 1A2 - Project Management Support</b>				<b>190.00</b>

**1EXP - Project Management Expenses**

**Expenses**

<u>Account / Vendor</u>	<u>Doc Number</u>	<u>Date</u>	<u>Cost</u>	<u>Multiplier</u>	<u>Amount</u>
<b>Architectural/Engineering Supplies</b>					
John Arvai	ER000151896	11/14/2019	11.99	1.100	13.19
					<b>13.19</b>
<b>Total Expenses</b>					<b>13.19</b>

**Unit Rate Expenses**

<u>Account / Unit / Vendor</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b>Employee Mileage - Regular Rate</b>			
Employee Mileage	62.00	0.6400	39.68
John Arvai			39.68
			<b>39.68</b>
<b>Total Unit Rate Expenses</b>			<b>52.87</b>
<b>Total Bill Task: 1EXP - Project Management Expenses</b>			

**3D10 - 60% Permit Assistance**

**Rate Labor**

<u>Class / Employee</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>Engineer I</b>				
Jason Obrycki-Smith	12/4/2019	1.00	100.0000	100.00
	12/5/2019	4.00	100.0000	400.00
		-----		-----
		5.00		500.00
<b>Total Engineer I</b>				<b>500.00</b>
<b>Engineer IV</b>				
Tyler Barkho	12/5/2019	0.50	150.0000	75.00

**Project: MCW200501T - Chapaton RTB Canal Upgrades**

**3D10 - 60% Permit Assistance**

**Rate Labor**

*Class / Employee*

*Date*

*Hours*

*Rate*

*Amount*

**Principal**

Steven A Kalinowski

Date	Hours	Rate	Amount
12/2/2019	1.00	230.0000	230.00
12/4/2019	1.00	230.0000	230.00
12/5/2019	2.00	230.0000	460.00
12/10/2019	1.00	230.0000	230.00
12/11/2019	1.00	230.0000	230.00
12/12/2019	2.00	230.0000	460.00

Anthony C Igwe

12/3/2019	3.00	230.0000	690.00
12/4/2019	3.00	230.0000	690.00
12/5/2019	1.00	230.0000	230.00

**Total Principal**

15.00 3,450.00

**Senior Professional**

John Arvai

12/11/2019	0.50	215.0000	107.50
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**Total Rate Labor**

4,132.50

4,132.50

**Total Bill Task: 3D10 - 60% Permit Assistance**

**3D12 - 60% Construction Schedule Update**

**Rate Labor**

*Class / Employee*

*Date*

*Hours*

*Rate*

*Amount*

**Senior Professional**

John Arvai

12/2/2019	0.50	215.0000	107.50
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**Total Rate Labor**

107.50

**3D13 - 60% Engineer's Cost Estimate**

**Rate Labor**

*Class / Employee*

*Date*

*Hours*

*Rate*

*Amount*

**Senior Professional**

John Arvai

12/2/2019	0.50	215.0000	107.50
12/9/2019	0.50	215.0000	107.50
12/13/2019	0.50	215.0000	107.50
	1.50		322.50

**Total Senior Professional**

**Total Rate Labor**

322.50

322.50

**Total Bill Task: 3D13 - 60% Engineer's Cost Estimate**

**3E1 - 90% Process**

**Rate Labor**

*Class / Employee*

*Date*

*Hours*

*Rate*

*Amount*

**Principal**

Steven A Kalinowski

12/17/2019	1.00	230.0000	230.00
12/18/2019	1.00	230.0000	230.00
	2.00		460.00

**Total Principal**

**Senior Professional**

Jeffrey W Reynhout

12/5/2019	2.00	215.0000	430.00
12/18/2019	1.00	215.0000	215.00

Project: MCW200501T - Chapaton RTB Canal Upgrades

3E1 - 90% Process

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Senior Professional				
Jeffrey W Reynhout	12/20/2019	1.00	215.0000	215.00
		4.00		860.00
<b>Total Senior Professional</b>				<b>1,320.00</b>
<b>Total Rate Labor</b>				<b>1,320.00</b>

Total Bill Task: 3E1 - 90% Process

3E13 - 90% Meetings

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Senior Professional				
John Arvai	12/4/2019	1.00	215.0000	215.00
	12/10/2019	0.50	215.0000	107.50
	12/16/2019	0.50	215.0000	107.50
	12/18/2019	1.50	215.0000	322.50
		3.50		752.50
<b>Total Senior Professional</b>				<b>752.50</b>
<b>Total Rate Labor</b>				<b>752.50</b>

Total Bill Task: 3E13 - 90% Meetings

3E2 - 90% Electrical & I&C

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Engineer III				
Thomas J Stark	12/2/2019	5.00	130.0000	650.00
	12/3/2019	7.00	130.0000	910.00
	12/4/2019	7.00	130.0000	910.00
	12/5/2019	4.00	130.0000	520.00
	12/6/2019	1.00	130.0000	130.00
	12/11/2019	4.00	130.0000	520.00
	12/16/2019	2.00	130.0000	260.00
	12/17/2019	1.00	130.0000	130.00
	12/19/2019	1.00	130.0000	130.00
		32.00		4,160.00
<b>Total Engineer III</b>				<b>4,160.00</b>
<b>Total Rate Labor</b>				<b>4,160.00</b>

Total Bill Task: 3E2 - 90% Electrical & I&C

3E15 - 90% Lighthouse

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Senior Professional				
John Arvai	12/4/2019	2.00	215.0000	430.00
	12/16/2019	0.50	215.0000	107.50
		2.50		537.50
<b>Total Senior Professional</b>				<b>537.50</b>
<b>Total Rate Labor</b>				<b>537.50</b>

Total Bill Task: 3E15 - 90% Lighthouse

Project: MCW200501T - Chapaton RTB Canal Upgrades

3E3 - 90% Landscape/Green Infrastructure

Rate Labor Class / Employee	Date	Hours	Rate	Amount
<b>LA Staff</b>				
Catherine A Dennis	12/16/2019	0.50	100.0000	50.00
	12/18/2019	1.50	100.0000	150.00
	12/20/2019	0.25	100.0000	25.00
		-----		225.00
<b>Total LA Staff</b>				
<b>Principal</b>				
Steven A Kalinowski	12/17/2019	1.00	230.0000	230.00
<b>Professional LA III</b>				
Scot Lautzenheiser	12/10/2019	0.50	150.0000	75.00
	12/18/2019	0.50	150.0000	75.00
	12/20/2019	0.75	150.0000	112.50
		-----		262.50
<b>Total Professional LA III</b>		1.75		
			<b>Total Rate Labor</b>	<b>717.50</b>
				<b>717.50</b>

**Total Bill Task: 3E3 - 90% Landscape/Green Infrastructure**

3E16 - 90% Easement Assistance

Rate Labor Class / Employee	Date	Hours	Rate	Amount
<b>CADD Technician VI</b>				
Robert D Taylor	12/17/2019	2.00	120.0000	240.00
	12/18/2019	7.00	120.0000	840.00
	12/19/2019	1.00	120.0000	120.00
		-----		1,200.00
<b>Total CADD Technician VI</b>		10.00		
<b>Principal</b>				
Steven A Kalinowski	12/2/2019	1.00	230.0000	230.00
	12/3/2019	1.00	230.0000	230.00
		-----		460.00
<b>Total Principal</b>		2.00		
<b>Professional Surveyor III</b>				
Scott Bliss	12/3/2019	1.00	140.0000	140.00
	12/9/2019	1.00	140.0000	140.00
	12/11/2019	1.00	140.0000	140.00
	12/16/2019	1.00	140.0000	140.00
	12/18/2019	1.00	140.0000	140.00
	12/19/2019	1.00	140.0000	140.00
Scott A Warnke	12/4/2019	6.00	140.0000	840.00
	12/5/2019	6.00	140.0000	840.00
	12/6/2019	3.00	140.0000	420.00
	12/9/2019	4.00	140.0000	560.00
	12/10/2019	4.00	140.0000	560.00
	12/11/2019	5.00	140.0000	700.00
	12/12/2019	6.00	140.0000	840.00

Project: MCW200501T - Chapaton RTB Canal Upgrades

3E16 - 90% Easement Assistance

Rate Labor Class / Employee	Date	Hours	Rate	Amount
		40.00		5,600.00
<b>Total Professional Surveyor III</b>				<b>7,260.00</b>
<b>Total Rate Labor</b>				<b>7,260.00</b>

Total Bill Task: 3E16 - 90% Easement Assistance

3E4 - 90% Structural

Rate Labor Class / Employee	Date	Hours	Rate	Amount
<b>CADD Technician I</b>				
Rachelle Setser	12/12/2019	1.00	70.0000	70.00
<b>Engineer IV</b>				
Tyler Barkho	12/10/2019	0.50	150.0000	75.00
	12/11/2019	4.00	150.0000	600.00
	12/12/2019	6.00	150.0000	900.00
	12/17/2019	4.00	150.0000	600.00
	12/20/2019	1.00	150.0000	150.00
		15.50		2,325.00
<b>Total Engineer IV</b>				
<b>Professional Engineer IV</b>				
Italo Gonzalez	12/2/2019	4.00	190.0000	760.00
	12/3/2019	4.00	190.0000	760.00
	12/4/2019	4.00	190.0000	760.00
	12/12/2019	4.00	190.0000	760.00
	12/13/2019	4.00	190.0000	760.00
		20.00		3,800.00
<b>Total Professional Engineer IV</b>				
<b>Senior Professional</b>				
James K White	12/12/2019	8.00	215.0000	1,720.00
	12/19/2019	4.00	215.0000	860.00
		12.00		2,580.00
<b>Total Senior Professional</b>				
<b>Total Rate Labor</b>				<b>8,775.00</b>

Total Bill Task: 3E4 - 90% Structural

3E6 - 90% Civil / Site

Rate Labor Class / Employee	Date	Hours	Rate	Amount
<b>Engineer IV</b>				
Tyler Barkho	12/3/2019	1.00	150.0000	150.00
	12/4/2019	0.50	150.0000	75.00
		1.50		225.00
<b>Total Engineer IV</b>				
<b>Principal</b>				
Steven A Kalinowski	12/17/2019	1.00	230.0000	230.00
	12/18/2019	1.00	230.0000	230.00
	12/20/2019	1.00	230.0000	230.00
		3.00		690.00
<b>Total Principal</b>				

Project: MCW200501T - Chapaton RTB Canal Upgrades

3E6 - 90% Civil / Site

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Professional Surveyor III				
Scott A Warnke	12/19/2019	1.00	140.0000	140.00
<b>Total Rate Labor</b>				<b>1,055.00</b>

Total Bill Task: 3E6 - 90% Civil / Site

3E9 - 90% Permit Assistance

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Principal				
Steven A Kalinowski	12/16/2019	1.00	230.0000	230.00
	12/20/2019	1.00	230.0000	230.00
		2.00		460.00
<b>Total Principal</b>				<b>460.00</b>
<b>Total Rate Labor</b>				<b>460.00</b>

Total Bill Task: 3E9 - 90% Permit Assistance

6A2 - NTH Consultants

Expenses Account / Vendor	Doc Number	Date	Cost	Multiplier	Amount
Subconsultants					
NTH Consultants LTD	0020017316	12/13/2019	5,988.04	1.050	6,287.44
<b>Total Expenses</b>					<b>6,287.44</b>

6A3 - MKSK

Expenses Account / Vendor	Doc Number	Date	Cost	Multiplier	Amount
Subconsultants					
MKSK INC	0020017321	11/30/2019	4,011.39	1.050	4,211.96
<b>Total Expenses</b>					<b>4,211.96</b>

6A5 - AEW

Expenses Account / Vendor	Doc Number	Date	Cost	Multiplier	Amount
Subconsultants					
Anderson, Eckstein & Westrick Inc	0020017344	12/8/2019	6,372.50	1.050	6,691.13
<b>Total Expenses</b>					<b>6,691.13</b>

7A1 - Flushing System Study

Rate Labor Class / Employee	Date	Hours	Rate	Amount
Engineer I				
Tyler S Davidek	12/2/2019	4.00	100.0000	400.00
	12/3/2019	4.00	100.0000	400.00
	12/4/2019	3.00	100.0000	300.00
	12/5/2019	1.00	100.0000	100.00
	12/6/2019	1.00	100.0000	100.00
	12/10/2019	5.00	100.0000	500.00
	12/11/2019	8.00	100.0000	800.00
	12/12/2019	6.00	100.0000	600.00

Project: MCW200501T - Chapaton RTB Canal Upgrades

7A1 - Flushing System Study

Rate Labor

Class / Employee

	Date	Hours	Rate	Amount
<b>Engineer I</b>				
Tyler S Davidek	12/13/2019	1.75	100.0000	175.00
	12/16/2019	1.00	100.0000	100.00
	12/17/2019	4.50	100.0000	450.00
	12/18/2019	4.00	100.0000	400.00
	12/19/2019	2.00	100.0000	200.00
	12/20/2019	2.00	100.0000	200.00
		-----		-----
		47.25		4,725.00

**Total Engineer I**

**Principal**

Steven A Kalinowski

	12/4/2019	1.00	230.0000	230.00
	12/5/2019	1.00	230.0000	230.00
		-----		-----
		2.00		460.00

**Total Principal**

**Project Specialist II**

John K Golden

	12/11/2019	4.00	150.0000	600.00
--	------------	------	----------	--------

**Senior Professional**

John Arvai

	12/5/2019	0.50	215.0000	107.50
	12/10/2019	0.50	215.0000	107.50
	12/12/2019	3.00	215.0000	645.00
	12/19/2019	0.50	215.0000	107.50

Jeffrey W Reynhout

	12/2/2019	3.00	215.0000	645.00
	12/3/2019	5.00	215.0000	1,075.00
	12/4/2019	2.00	215.0000	430.00
	12/5/2019	2.00	215.0000	430.00
	12/9/2019	4.00	215.0000	860.00
	12/10/2019	3.00	215.0000	645.00
	12/12/2019	5.00	215.0000	1,075.00
	12/18/2019	5.00	215.0000	1,075.00
	12/19/2019	2.00	215.0000	430.00
	12/20/2019	2.00	215.0000	430.00
		-----		-----
		37.50		8,062.50

**Total Senior Professional**

**Total Rate Labor**

**13,847.50**

**Unit Rate Expenses**

Account / Unit / Vendor

**Employee Mileage - Regular Rate**

Employee Mileage

	Quantity	Rate	Amount
John Arvai	61.00	0.5800	35.38

**Total Unit Rate Expenses**

**35.38**

**Total Bill Task: 7A1 - Flushing System Study**

**13,882.88**

Total Project: MCW200501T - Chapaton RTB Canal Upgrades

**63,603.78**



Effort Description:

Project management and coordination of design activities, staff and team meetings. Prepared monthly invoice and progress report. Continued additional permitting efforts and finalized response for joint permit and NPDES revision permit. Assisted with submission of joint permit and NPDES revisions permit to EGLE. Continued response effort for Part 41 permit. Continued development of open space planning concepts. Attended control building architectural design meeting with MCPWO on December 4, 2019. Review of control building renderings and subsequent revisions. Updated 60% design drawings and specifications from workshop to include with permit submission. Construction 60% estimate and construction schedule submitted for MCPWO review. Completed the structural stability and design analysis for the new gate structure. Ran final stability analysis for various sections of embankment and sheeting. Progressed design drawings and specifications towards 90% level and began sequence of construction drawings. Commenced Shoreclub title search review of documents and survey. Continued Chapaton RTB flushing system study work. Attended flushing study meeting at Chapaton RTB pump station to review and discuss flushing options with MCPWO. Attended meeting at Chapaton RTB pump station to review high pressure jet options for flushing.



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

**INVOICE**

**Wade-Trim Associates, Inc.**  
 25251 Northline  
 Taylor MI 48180

**Invoice # :** 620928  
**Project :** 62190022  
**Invoice Group :** \*\*  
**Invoice Date :** 12/23/2019

**Attention: Accounts Payable**

For Professional Services Rendered through: 12/13/2019

**P.O./Ref #:** Authorization per NTH/Wade Trim Standard Subconsultant Agreement dated February 28, 2019.

Engineering services related tot he expansion of the Chapaton Basin

<u>Phase Name</u>	<u>Maximum Budget</u>	<u>Previous Billings</u>	<u>Current Charges</u>	<u>Remaining Budget</u>
10 -- Project Management	28,890.00	13,115.83	1,075.00	14,699.17
20 -- *C* - Preliminary Design	99,060.00	99,031.49	0.00	28.51
30 -- Final Design	91,200.00	9,858.75	4,913.04	76,428.21
40 -- Bidding Assistance	9,360.00	0.00	0.00	9,360.00
<b>Project Total</b>	<b>228,510.00</b>	<b>122,006.07</b>	<b>5,988.04</b>	<b>100,515.89</b>

**Amount Due This Invoice :** \$ 5,988.04

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

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

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



Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades

Invoice # : 620928

Phase : 10 -- Project Management

<u>Rate Schedule Labor</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>Senior Officer</b>				
Roarty, Charles	11/18/2019	0.50	215.00	107.50
	11/21/2019	0.50	215.00	107.50
	12/02/2019	1.00	215.00	215.00
	12/03/2019	1.00	215.00	215.00
	12/04/2019	0.50	215.00	107.50
	12/05/2019	1.00	215.00	215.00
	12/06/2019	0.50	215.00	107.50
<b>Rate Schedule Labor</b>		<b>5.00</b>		<b>1,075.00</b>
<b>Total Phase : 10 -- Project Management</b>			<b>Labor :</b>	<b>1,075.00</b>
			<b>Expense :</b>	<b>0.00</b>

Phase : 30 -- Final Design

<u>Rate Schedule Labor</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>Project Professional</b>				
Lobbestael, Adam	12/05/2019	3.50	120.00	420.00
	12/06/2019	1.00	120.00	120.00
	12/09/2019	2.00	120.00	240.00
	12/10/2019	8.50	120.00	1,020.00
	12/11/2019	7.50	120.00	900.00
	12/12/2019	7.00	120.00	840.00
Hassan, Samer	12/05/2019	0.50	120.00	60.00
<b>Senior Officer</b>				
Roarty, Charles	11/18/2019	1.50	215.00	322.50
	11/19/2019	3.50	215.00	752.50
	12/10/2019	0.50	215.00	107.50
	12/12/2019	0.50	215.00	107.50
<b>Rate Schedule Labor</b>		<b>36.00</b>		<b>4,890.00</b>

<u>Unit Pricing Expenses</u>	<u>Units</u>	<u>Rate</u>	<u>Amount</u>
Per Unit Expenses			
REIMBURSED MILEAGE	36.00 MILE(S) @	0.64	23.04
<b>Unit Pricing</b>			<b>23.04</b>

Total Phase : 30 -- Final Design

**Labor :** 4,890.00  
**Expense :** 23.04

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

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

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



NTH Consultants, Ltd.

Infrastructure Engineering and  
Environmental Services

INVOICE

Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades

Invoice # : 620928

Total Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades

5,988.04

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Page 3

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

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

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



462 South Ludlow Alley  
 Columbus, OH 43215  
 614-621-2796

Wade Trim Associates  
 John Arvai  
 jarvai@wadetrim.com  
 25251 Northline Road  
 Taylor, MI 48180

Invoice number 2191568  
 Date 12/24/2019  
 Project **k18101 St Clair Shores, Chapaton CSO Basin**

Professional Services for the Period ended November 30, 2019:

**\*\*Service Summary\*\***

**Professional Fees**

Standard Professional Services  
 Preliminary - Final Design

	Hours	Rate	Billed Amount
Associate	3.50	150.00	525.00
Landscape Architect II	24.00	115.00	2,760.00
Principal	3.00	210.00	630.00
Phase subtotal	30.50		3,915.00
Standard Professional Services subtotal			3,915.00
Professional Fees subtotal	30.50		3,915.00

**Reimbursable Expenses**

Reimbursable Expenses  
 Reimbursable Expenses

	Units	Cost Amount	Rate	Billed Amount
Mileage	41.10	23.84	0.58	23.84
60% Design Drawing review				
8.5 X 11 Bw On Bond - Prints	15.00	2.25	0.15	2.25
11 X 17 Bw On Bond - Prints	1.00	0.30	0.30	0.30
8.5 X 11 Color Copies - Prints	4.00	4.00	1.00	4.00
11 X 17 Color Copies - Prints	33.00	66.00	2.00	66.00
Phase subtotal				96.39
Reimbursable Expenses subtotal				96.39
Reimbursable Expenses subtotal		96.39		96.39

Invoice total **4,011.39**



Wade Trim Associates  
 Project K18101 St Clair Shores, Chapaton CSO Basin

Invoice number 2191568  
 Date 12/24/2019

**Invoice Summary**

Description	Contract Amount	Prior Billed	Total Billed	Current Billed
Standard Professional Services				
Preliminary - Final Design	24,380.00	14,902.50	18,817.50	3,915.00
Reimbursable Expenses				
Reimbursable Expenses	0.00	502.85	599.24	96.39
<b>Total</b>	<b>24,380.00</b>	<b>15,405.35</b>	<b>19,416.74</b>	<b>4,011.39</b>

**Aging Summary**

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
2191280	10/23/2019	8,417.92			8,417.92		
2191439	11/19/2019	6,009.13		6,009.13			
2191568	12/24/2019	4,011.39	4,011.39				
	<b>Total</b>	<b>18,438.44</b>	<b>4,011.39</b>	<b>6,009.13</b>	<b>8,417.92</b>	<b>0.00</b>	<b>0.00</b>

Approved by:

Christopher E. Hostettler, C.P.A.  
 C.F.O.

*Professional Services for the Period ended November 30, 2019:*

- Development of preliminary cost estimate
- Participation in client review meeting
- Development of specifications and plan refinement including grading, lighting, planting etc.
- Delivery of 60% Submittal Docs



**ANDERSON, ECKSTEIN & WESTRICK, INC.**  
**CIVIL ENGINEERS SURVEYORS ARCHITECTS**  
 51301 SCHOENHERR RD. SHELBY TOWNSHIP, MI 48315  
 www.aewinc.com p(586)726-1234

**INVOICE**

December 16, 2019  
 Project No: 0211-0206-0  
 Invoice No: 0124689

WADE TRIM  
 ATTN: JOHN ARVAI, PE  
 25251 NORTHLINE ROAD  
 TAYLOR, MI 48180

Project 0211-0206-0 CHAPATON RTB CANAL UPGRADE - GATE BLDG

**Professional Services from November 11, 2019 to December 8, 2019**

Phase 01 DESIGN

**Professional Personnel**

	Hours	Rate	Amount	
CONTRACT ADMINISTRATION				
PRINCIPAL ENGINEER	1.00	171.00	171.00	
ARCHITECT				
SENIOR PROJECT ARCHITECT	35.00	157.00	5,495.00	
DESIGN DEVELOPMENT				
SENIOR PROJECT ARCHITECT	2.50	157.00	392.50	
CONSTRUCTION DOCUMENTS				
SENIOR PROJECT ARCHITECT	2.00	157.00	314.00	
Totals	40.50		6,372.50	
<b>Total Labor</b>				<b>6,372.50</b>

Billing Limits	Current	Prior	To-Date	
Total Billings	6,372.50	0.00	6,372.50	
Limit			29,500.00	
Remaining			23,127.50	
		<b>Total this Phase</b>		<b>\$6,372.50</b>
		<b>Total this Invoice</b>		<b>\$6,372.50</b>

Budget to Actual  
8.5 Mile Relief  
As of January 31, 2020 = 33%

DESCRIPTION	2020 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
<b>REVENUE ACCOUNTS</b>					
Interest Earned	80,000		101,454	(21,454)	125.8%
Canal Expansion(SMSD and Macomb County)	-		3,000,000	(3,000,000)	0.0%
Other Revenue	5,000		1,376	3,624	27.5%
State Grant	-		-	-	0.0%
LSCWWI 04B Transfer	-		738,112	(738,112)	100.0%
8.5 O&M/Charge Required Revenue	4,279,768		2,139,884	2,139,884	50.0%
PY Revenue-Fund Balance	3,098,050		32,940	3,065,110	1.1%
Rental Fee	16,464		5,488	10,976	33.3%
<b>Total Revenue Accounts</b>	<b>7,479,282</b>	<b>-</b>	<b>6,019,254</b>	<b>1,460,028</b>	<b>80.5%</b>
<b>EXPENSE ACCOUNTS</b>					
Application/Permit Fee	3,000		6,000	(3,000)	200.0%
Dues, Training, Conf, Subs.	5,750		86	5,664	1.5%
<b>Engineering</b>					
As needed Engineering	75,000		29,497	45,503	39.3%
Chapaton Improvements-Office Space	500,000		-	500,000	0.0%
Disinfection system upgrade (Design and Construction)	1,000,000		-	1,000,000	0.0%
Basin Structural Integrity Study**	-		12,835	(12,835)	0.0%
Phase 1 TRC Basin Equipment**	-		20,105	(20,105)	0.0%
HVAC Design	200,000		-	200,000	0.0%
Flushing Study	75,000		-	75,000	0.0%
RTB/PS Ventilation Design	120,000		-	120,000	0.0%
Chapaton Improvements-Lab Relocation	250,000		70,444	179,556	28.2%
Basin Expansion Design	775,000		315,508	459,492	40.7%
In-System Storage Design(Gates on 8.5 Tunnel)	1,200,000		165,421	1,034,579	13.8%
9 Mile & 8 1/2 Mile Rehab	75,000		8,543	66,457	11.4%
<b>New Equipment</b>					
Office Supplies	1,000		46	954	4.6%
Operating Supplies	74,600		19,873	54,727	26.6%
Other Professional Svcs	46,800		5,989	40,811	12.8%
Personnel Services	979,953		-	979,953	0.0%
Repair & Maintenance	148,500		71,263	77,237	48.0%
Pumping and screening improvements	1,150,000		-	1,150,000	0.0%
SRF Replacement Reserve	259,215		-	259,215	0.0%
<b>Scada System</b>					
Utilities	243,839		60,437	183,402	24.8%
Utilities	273,125		34,536	238,589	12.6%
<b>Total Expense Accounts</b>	<b>7,479,282</b>	<b>-</b>	<b>831,157</b>	<b>6,648,125</b>	<b>11.1%</b>

	O&M Balance 9/30/2019	O&M	Total 1/31/2020
Cash - Operating	8,846,231	5,188,097	14,034,328
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		6,019,254	6,019,254
Expenditures		831,157	831,157
			0
Equity*	8,846,231		14,034,328

**Detail of 2019 Equity\***

Disinfection system upgrade (Design and Construction)	100,000	Basin Expansion Design	450,000
RTB/PS Ventilation Design	120,000	Pumping and screening improvements	1,215,000
Chapaton Improvements-Office Space	228,000	PLC Replacements at Chapaton East	40,000
In-System Storage Design (Gates on 8.5 Tunnel)	425,000	SRF Replacement Reserve	1,814,505
9 Mile & 8 1/2 Mile Rehab	67,800	Expansion Reserve (From State)	3,000,000
Scada Reserve	109,025	Capital Reserve	936,901
Phase 1 TRC Basin Equipment**	100,000	Basin Structural Integrity Study**	60,000
As needed Engineering	40,000	Painting interior and garage façade	20,000
HVAC Design	60,000	Security Fence Structure-Gate Act	60,000

\*\* Project was projected to be completed during 18/19 budget cycle. However it was not, so funds designated in 18/19 for this project will be used in 19/20