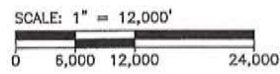
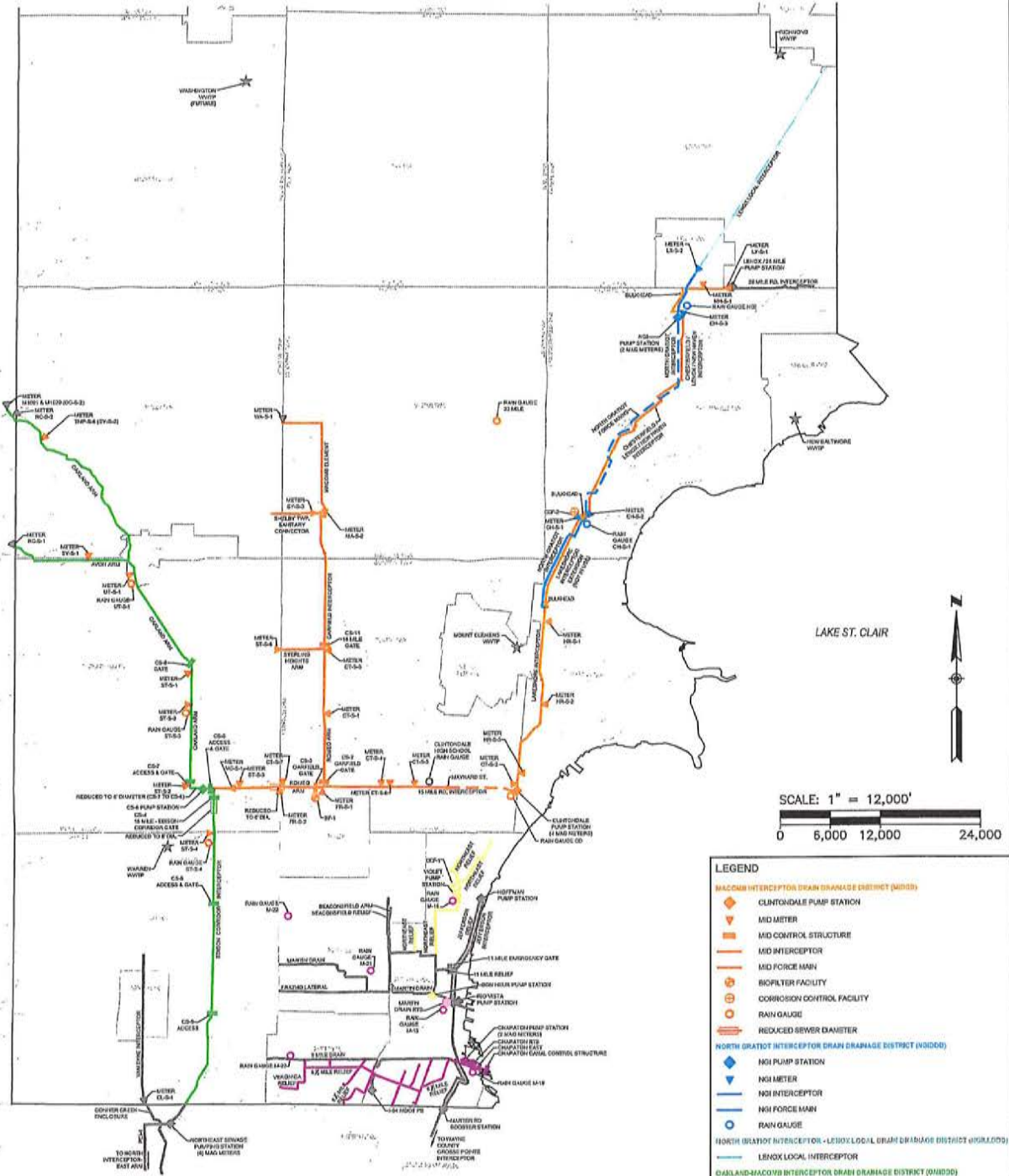


Miller  
Santo  
Klinefelt

EIGHT AND ONE-HALF MILE RELIEF DRAIN  
INTRA-COUNTY DRAINAGE BOARD  
MAY 13, 2019  
10:00 A.M.  
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for May 13, 2019	
3. Approval of Minutes for April 8, 2019	3
4. Public Participation	
5. Project Updates – Vince Astorino	
6. Consideration for approval of invoices (see attached)	5
7. Financial Report – Bruce Manning	64
8. Adjourn	

# MACOMB COUNTY WASTEWATER SYSTEMS



- LEGEND**
- MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MIDDD)**
    - CLINTONDALE PUMP STATION
    - MID METER
    - MID CONTROL STRUCTURE
    - MID INTERCEPTOR
    - MID FORCE MAIN
    - BIOFILTER FACILITY
    - CORROSION CONTROL FACILITY
    - RAIN GAUGE
    - REDUCED SEWER DIAMETER
  - NORTH GRATTOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NGIDD)**
    - NGI PUMP STATION
    - NGI METER
    - NGI INTERCEPTOR
    - NGI FORCE MAIN
    - RAIN GAUGE
  - HOUSTON BRANTON INTERCEPTOR - LEBOY LOCAL DRAIN DRAINAGE DISTRICT (HBLDD)**
    - LEBOY LOCAL INTERCEPTOR
  - OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMIDD)**
    - CS-4 PUMP STATION
    - OMD METER
    - OMD CONTROL STRUCTURE
    - OMD INTERCEPTOR
    - REDUCED SEWER DIAMETER
  - 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT**
    - CHAPATON WEST PUMP STATION
    - CHAPATON RETENTION TREATMENT BASIN
    - CHAPATON CANAL CONTROL GATE
    - 8 1/2 MILE INTERCEPTOR
    - RAIN GAUGE
  - SEMOWIS DRAIN DRAINAGE DISTRICT**
    - SEMOWIS PUMP STATION
    - CORROSION CONTROL FACILITY
    - SEMOWIS INTERCEPTOR
  - MARTIN LAMBERTSON DRAIN DRAINAGE DISTRICT (MLDD)**
    - MARTIN DRAIN RETENTION TREATMENT BASIN
  - OTHER SYSTEMS**
    - PUMP STATION
    - METER
    - WWTP
    - INTERCEPTOR

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



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 April 8, 2019, at 11:48 A.M.

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

ABSENT: Veronica Klinefelt, Member

ALSO-PRESENT: Brian Baker, Chief Deputy Commissioner, Karen Czernel, Deputy Government Relations, Vince Astorino, Operations & Flow Manager, Evans Bantios, Construction & Maintenance Manager, Dan Heaton, Communications Manager, Kellie Kource, Drain Account Specialist, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Kyle McKee, Community Services Manager, Macomb County Public Works;

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

Adopted: YEAS: 2  
NAYS: 0

Minutes of the meeting of March 11, 2019 were presented. A motion was made by Mr. Santo, supported by Ms. Miller to approve the minutes as presented.

Adopted: YEAS: 2  
NAYS: 0

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

Mr. Astorino updated the board that the Engineering Design RFP for the Phase 2 construction project went out on March 22. The bids are due by May 10 and we plan to bring an award to the board with recommendation for design on the project in June. Two new projects kicked off recently including a structural integrity study of the basin itself and the design for spot repairs for 8 ½ and 9 mile interceptors.

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

Adopted: YEAS: 2  
NAYS: 0

The Chair presented the invoices totaling \$70,833.92 to the board for review and approval.

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

Adopted: YEAS: 2  
NAYS: 0

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

Adopted: YEAS: 2  
NAYS: 0

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

Adopted: YEAS: 2  
NAYS: 0

The meeting was adjourned at 11:51 a.m.

  
\_\_\_\_\_  
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 April 8, 2019 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: 4/8/19



EIGHT AND ONE HALF MILE DRAIN RELIEF INVOICES 4/16/19 - 5/7/19

<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	Abel Electronics	\$ 42,445.00	Invoice #152067 - 04.05.19	Upgrade existing camera system			
		Astorino	City of St. Clair Shores Treasurer	\$ 608.04	Invoice #19-140 - 03.15.19	Water Bill 12.13.18 - 03.15.19 - Service Garage			
		Astorino	City of St. Clair Shores Treasurer	\$ 4,593.48	Invoice #19-138 - 03.15.19	Water Bill 12.13.18 - 03.15.19 - Chapaton West			
		Astorino	Consumers Energy	\$ 522.69	Invoice #206078201769 - 03.25.19	Gas Services 02.26.19 - 03.25.19			
		Astorino	De-Cal, Inc.	\$ 996.20	Invoice #WO19001051 - 03.27.19	PM on HVAC			
		Astorino	DTE Energy	\$ 9,051.78	Invoice #19-175 - 04.09.19	Monthly Electric - 03.08.19 - 04.08.19			
		Astorino	DTN, LLC	\$ 551.81	Invoice #5534057 - 04.19.19	Storm Sentry Subscription			
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 4,754.00	Invoice #381853 - 04.01.19	SRF Project Plan	\$ 6,400.00		
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 5,343.32	Invoice #382820 - 04.29.19	State Revolving Fund Project Plan	\$ 1,496.68		
		Astorino	HESCO	\$ 1,200.00	Invoice #161025 App 7 - 04.18.19	Flow Meters	\$ 49,499.00		
		Astorino	J & J Roofing Co.	\$ 800.00	Invoice #923001 - 03.09.19	Repair Missing Trim Metal			
		Astorino	Jack Doherty Companies Inc.	\$ 1,258.36	Invoice #A200005 - 03.29.19	Confined Space Equipment			
		Astorino	JCI Jones Chemicals Inc.	\$ 4,147.06	Invoice #786797 - 04.22.19	Hypochlorite Solution - 4,584 gallons			
		Astorino	Kennedy Industries	\$ 1,215.00	Invoice #610100 - 04.12.19	Field Service, Valves			
		Astorino	Nickel & Saph, Inc.	\$ 3,714.12	Invoice #19668 - 04.08.19	Liability Insurance Renewal			
		Astorino	Wade Trim	\$ 27,661.89	Invoice #M2014218 - 04.01.19	Chapaton RTB Canal Upgrades 03.01.19 - 03.22.19	\$ 949,949.11		
		Astorino	Wade Trim	\$ 45,547.73	Invoice #M2014455 - 04.26.19	Chapaton RTB Canal Upgrades 03.23.19 - 04.19.19	\$ 904,374.38		
		<b>Total</b>				\$ 154,410.48			



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

**PURCHASE ORDER NO.**

**PW000015**

PURCHASE ORDER NUMBER MUST  
 APPEAR ON ALL INVOICES AND SHIPPING  
 DOCUMENTS.

Vendor: **V00024**  
 ABEL ELECTRONICS  
  
 27201 HARPER  
 ST CLAIR SHORES, MI 48081

Ship To: **DPWK**  
 PUBLIC WORKS OFFICE  
 CHAPATON PUMP STATION  
 23001 9 MILE ROAD  
 SAINT CLAIR SHORES MI 48080

Requested by: Michelle Houvener

Req. Dt: 02/12/2019

ITEMS							
ITEM #	ORGKEY	OBJECT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
0001	8703018M	93001	Upgrade existing camera system to a Panasonic Video Insight VMS	1.00		1,585.00	1,585.00
0002	8703018M	93001	Upgrade existing camera system to a Panasonic Video Insight VMS	1.00		1,390.00	1,390.00
0003	8200166M	93001	Upgrade existing camera system to a Panasonic Video Insight VMS	1.00		1,390.00	1,390.00
0004	8200166M	93001	Upgrade existing camera system to a Panasonic Video Insight VMS	1.00		3,710.00	3,710.00
0005	8200017M	93001	Upgrade existing camera system to a Panasonic Video	1.00		42,445.00	42,445.00

**BILL TO:**  
 MACOMB COUNTY PUBLIC WORKS  
 FINANCE DEPARTMENT  
 21777 DUNHAM ROAD  
 CLINTON TOWNSHIP, MI 48036

AUTHORIZED AGENT

Print Date: 02/12/2019



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

**PURCHASE ORDER NO.**

**PW000015**

PURCHASE ORDER NUMBER MUST  
APPEAR ON ALL INVOICES AND SHIPPING  
DOCUMENTS.

Insight VMS

TOTAL \$50,520.00

**BILL TO:**

MACOMB COUNTY PUBLIC WORKS  
FINANCE DEPARTMENT  
21777 DUNHAM ROAD  
CLINTON TOWNSHIP, MI 48036

AUTHORIZED AGENT

Print Date: 02/12/2019

**ADDRESS:** 21777 Dunham Road, Clinton Township, MI 48036 • Phone: 586-469-5325 • Fax: 586-469-5933  
**ENGINEERING:** • Phone: 586-469-5910 • Fax: 586-469-7693 **SOIL EROSION:** • Phone: 586-469-5327 • Fax: 586-307-8264





# ABEL ELECTRONICS

27201 HARPER AVENUE  
 ST. CLAIR SHORES, MI 48081  
 586-777-8232 Fax: 586-777-7540

<b>INVOICE NUMBER</b>
152067
<b>Invoice Date</b>
04/05/2019

**Sold To:**  
 MACOMB COUNTY OPW  
 23001 E 9 MILE RD  
 SAINT CLAIR SHORES, MI 48080

**Ship To:**  
 JOE BETZ

## INVOICE

<b>Customer No.</b>	<b>Service Order No.</b>	<b>P.O. Number</b>	<b>Payment Terms</b>		<b>Page No.</b>
390	13266	PW000015	NET 30 DAYS		1
<b>Sales Rep.</b>	<b>Shipping Method</b>		<b>Due Date</b>	<b>Station</b>	<b>Time</b>
MSM 006			04/05/2019	006	1:07pm

QTY	Item	Description	Unit Price	Extension
1.00		SCOPE OF WORK:	0.00	0.00
0.00		Upgrade existing camera system to a Panasonic Video Insight	0.00	0.00
0.00		VMS at the following locations: Chapaton, Clintondale,	0.00	0.00
0.00		Biofilter, Bon Huer and Violet.	0.00	0.00
0.00			0.00	0.00
0.00			0.00	0.00
1.00		VIOLET PUMP STATION:	0.00	0.00
0.00		Convert existing system over to a Panasonic Video Insight	0.00	0.00
0.00		VMS and add three existing cameras to customers NVR	0.00	0.00
0.00		with licenses. Includes Unlimited SUP and tech support	0.00	0.00
3.00	-	VIDEO INSIGHT CAMERA LICENSE	195.00	585.00
1.00		SYSTEM CONFIGURATION AND SETUP	1,000.00	1,000.00
0.00			0.00	0.00
1.00		BON HUER PUMP STATION:	0.00	0.00
0.00		Convert existing system over to a Panasonic Video Insight	0.00	0.00
0.00		VMS and add two existing cameras to customers NVR.	0.00	0.00
1.00		Includes Unlimited SUP and tech support	0.00	0.00
2.00		VIDEO INSIGHT CAMERA LICENSE	195.00	390.00
1.00		SYSTEM CONFIGURATION AND SETUP	1,000.00	1,000.00
0.00			0.00	0.00
1.00		BIOFILTER PUMP STATION:	0.00	0.00
0.00		Convert existing system over to a Panasonic Video Insight	0.00	0.00
0.00		VMS and add two existing cameras to customers NVR.	0.00	0.00

<b>Charged to Account</b>	<b>SubTotal Amount</b>	<b>Sales Tax</b>	<b>Invoice TOTAL</b>
50,520.00	50520.00	0.00	50,520.00

<b>Date Due:</b>	04/05/2019	<b>Balance Due:</b>	\$ 50520.00
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Signature: \_\_\_\_\_





# ABEL ELECTRONICS

27201 HARPER AVENUE  
 ST. CLAIR SHORES, MI 48081  
 586-777-8232 Fax: 586-777-7540

<b>INVOICE NUMBER</b>
152067
<b>Invoice Date</b>
04/05/2019

## INVOICE

**Sold To:**

MACOMB COUNTY OPW  
 23001 E 9 MILE RD  
 SAINT CLAIR SHORES, MI 48080

**Ship To:**

JOE BETZ

<b>Customer No.</b>	<b>Service Order No.</b>	<b>P.O. Number</b>	<b>Payment Terms</b>	<b>Page No.</b>
390	13266	PW000015	NET 30 DAYS	2
<b>Sales Rep.</b>	<b>Shipping Method</b>		<b>Due Date</b>	<b>Station</b>
MSM 006			04/05/2019	006
				<b>Time</b>
				1:07pm

QTY	Item	Description	Unit Price	Extension
1.00		Includes unlimited SUP and software support	0.00	0.00
2.00		VIDEO INSIGHT CAMERA LICENSE	195.00	390.00
1.00		SYSTEM CONFIGURATION AND SETUP	1,000.00	1,000.00
0.00			0.00	0.00
1.00		CLINTONDALE PUMP STATION:	0.00	0.00
0.00		Install NVR and from Chapaton and convert system to a	0.00	0.00
0.00		Panasonic Video Insight VMS. Install 10 camera license and	0.00	0.00
0.00		replace existing control room camera.	0.00	0.00
1.00		Includes unlimited SUP and software support.	0.00	0.00
10.00		VIDEO INSIGHT CAMERA LICENSE	195.00	1,950.00
1.00		SYSTEM CONFIGURATION AND SETUP	1,000.00	1,000.00
1.00		CAMERA REPLACEMENT LABOR	375.00	375.00
1.00		PANASONIC ADVIDIA 3MP A-37-FW FIXED 2.8MM DOME CAMERA	350.00	350.00
1.00		WALL MOUNT	35.00	35.00
0.00			0.00	0.00
1.00		CHAPATON PUMP STATION:	0.00	0.00
0.00		Install one Panasonic server by Dell. Unlimited SUP,	0.00	0.00
0.00		Includes all Panasonic camera license and new server	0.00	0.00
0.00		from Dell.	0.00	0.00
9.00		PANASONIC ADVIDIA A-47-F- (H.265) FIXED CAMERAS	400.00	3,600.00
9.00		WALL MOUNTS	65.00	585.00
5.00		PANASONIC ADVIDIA A-427-V - 8MP MULTISENSOR CAMERA 270 DEG	1,600.00	8,000.00
4.00		WALL MOUNTS	80.00	320.00

<b>Charged to Account</b>	<b>SubTotal Amount</b>	<b>Sales Tax</b>	<b>Invoice TOTAL</b>
50,520.00	50520.00	0.00	50,520.00

<b>Date Due:</b>	04/05/2019	<b>Balance Due:</b>	\$ 50520.00
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Signature: \_\_\_\_\_



# ABEL ELECTRONICS

27201 HARPER AVENUE  
ST. CLAIR SHORES, MI 48081  
586-777-8232 Fax: 586-777-7540

<b>INVOICE NUMBER</b>
152067
<b>Invoice Date</b>
04/05/2019

## INVOICE

Sold To:

MACOMB COUNTY OPW  
23001 E 9 MILE RD  
SAINT CLAIR SHORES, MI 48080

Ship To:

JOE BETZ

<b>Customer No.</b>	<b>Service Order No.</b>	<b>P.O. Number</b>	<b>Payment Terms</b>		<b>Page No.</b>
390	13266	PW000015	NET 30 DAYS		3
<b>Sales Rep.</b>	<b>Shipping Method</b>		<b>Due Date</b>	<b>Station</b>	<b>Time</b>
MSM 006			04/05/2019	006	1:07pm

QTY	Item	Description	Unit Price	Extension
1.00		CEILING MOUNT ADAPTER	85.00	85.00
3.00		PANASONIC CORNER AMOUNT ADAPTER	120.00	360.00
3.00		PANASONIC ADVIDIA A-300 2MP PTZ CAMERA	1,725.00	5,175.00
3.00		WALL MOUNTS	80.00	240.00
1.00		CORNER MOUNT ADAPTER KITS	120.00	120.00
1.00		SWITCHES, CABLING AND POE INJECTORS	2,850.00	2,850.00
1.00		PARAPET MOUNT WITH CAMERA ADAPTER PLATE	475.00	475.00
3.00		CAMERA LICENSE FOR EXISTING CAMERAS	195.00	585.00
1.00		INSTALLATION, SETUP AND TRAINING COST	6,800.00	6,800.00
1.00		DELL NVR-R-1-1-24TB WITH PANASONIC SERVICE LICENSE	5,500.00	5,500.00
0.00		Dell R230XL, Single Xeon E3-1220 Processor, 8GB RAM,	0.00	0.00
0.00		Windows 10 PRO ,	0.00	0.00
0.00		OS 1TB HDD, Storage 24TB (RAID5) DVD-RW Drive, Keyboard and	0.00	0.00
0.00		Mouse, No audio, 3 year hardware limited warranty	0.00	0.00
1.00		APC SRT3000 RMXLA WITH NIC CARD AND RACK RAILS	3,500.00	3,500.00
1.00		DELL WORKSTATION: I7-8700 PROCESSOR, 8GB MEMORY, DUAL	1,200.00	1,200.00
1.00		GRAPAHIC CARD AND 1TB	0.00	0.00
1.00		SHIPPING	375.00	375.00
0.00			0.00	0.00
1.00		ADD TWO CAMERAS AT CHAPATON B3 LOCATION:	0.00	0.00
2.00		ADVIDIA E-47-V - 4MP IR & VARIFOCAAL CAMERA	510.00	1,020.00
0.00		PANASONIC CAMERA LICENSE INCLUDED	0.00	0.00
1.00		WIRE AND HARDWARE	125.00	125.00

<b>Charged to Account</b>	<b>SubTotal Amount</b>	<b>Sales Tax</b>	<b>Invoice TOTAL</b>
50,520.00	50520.00	0.00	50,520.00

<b>Date Due:</b>	04/05/2019	<b>Balance Due:</b>	\$ 50520.00
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Signature: \_\_\_\_\_





# ABEL ELECTRONICS

27201 HARPER AVENUE  
 ST. CLAIR SHORES, MI 48081  
 586-777-8232 Fax: 586-777-7540

<b>INVOICE NUMBER</b>
152067
<b>Invoice Date</b>
04/05/2019

## INVOICE

**Sold To:**  
 MACOMB COUNTY OPW  
 23001 E 9 MILE RD  
 SAINT CLAIR SHORES, MI 48080

**Ship To:**  
 JOE BETZ

<b>Customer No.</b>	<b>Service Order No.</b>	<b>P.O. Number</b>	<b>Payment Terms</b>	<b>Page No.</b>
390	13266	PW000015	NET 30 DAYS	4
<b>Sales Rep.</b>	<b>Shipping Method</b>		<b>Due Date</b>	<b>Station</b>
MSM 006			04/05/2019	006
				<b>Time</b>
				1:07pm

QTY	Item	Description	Unit Price	Extension
2.00		WALL MOUNTS WITH ADAPTER PLATES	85.00	170.00
1.00		INSTALLATION AND SETUP	1,360.00	1,360.00
1.00		NOTES:	0.00	0.00
0.00		All racks, power and monitors to be supplied by the	0.00	0.00
0.00		customer.	0.00	0.00
0.00		ALL MAN LIFTS TO BE SUPPLIED BY CUSTOMER IF REQUIRED	0.00	0.00
0.00		- ALL FIBER SWITCHES TO BE SUPPLIED BY COUNTY.	0.00	0.00
0.00		- COUNTY RESPONSIBLE FOR ALL CONNECTION BETWEEN	0.00	0.00
0.00		MDF AND IDF'S AT ALL LOCATION.	0.00	0.00
0.00		- ADDITIONAL CHARGES WILL APPLY FOR BLOCKED OR DAMAGED	0.00	0.00
0.00		RACEWAYS -	0.00	0.00
1.00		- ALL VIEWING MONITORS AND WORKSTATIONS TO BE	0.00	0.00
0.00		SUPPLIED BY THE COUNTY.	0.00	0.00
1.00		- ALL RACEWAYS ARE OPEN AND NOT BLOCKED	0.00	0.00
1.00		- WORK STATION WILL BE EITHER HDMI OR DISPLAY PORT OUTS	0.00	0.00

<b>Charged to Account</b>	<b>SubTotal Amount</b>	<b>Sales Tax</b>	<b>Invoice TOTAL</b>
50,520.00	50520.00	0.00	50,520.00

<b>Date Due:</b>	04/05/2019	<b>Balance Due:</b>	\$ 50520.00
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Signature: \_\_\_\_\_



# St. Clair Shores Water Bill

**ACCOUNT NUMBER**

25776-00

**SERVICE ADDRESS**

23009 NINE MILE

**SERVICE TYPE**

Government

**PREVIOUS READ**

383

**CURRENT READ**

429 A

**CONSUMPTION**

46

**FROM: SERVICE PERIOD TO:**

12/13/2018

03/15/2019

**DUE DATE**

04/22/2019

**PAY AFTER DUE DATE**

638.44

**PAY BY DUE DATE**

608.04

PREVIOUS BALANCE

0.00

Water

217.95

Sewer

295.55

Customer Chg

94.05

Retention Basins O&M

0.49

**CURRENT BALANCE**

**608.04**

**MONTHLY BUDGET**

Temp-Return Service Requested

8275 1 AB 0.412

8275-8275-27



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: \$4.738/unit

Sewer rate: \$6.425/unit

Total rate: \$11.163

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**

04/22/2019

**Pay After Due Date**

638.44

**PAY BY DUE DATE**

608.04

**Service Address**

23009 NINE MILE

**Account Number**

25776-00

City of St. Clair Shores  
27600 Jefferson Ave  
Saint Clair Shores MI 48081-2075







# St. Clair Shores Water Bill

ACCOUNT NUMBER      SERVICE ADDRESS      SERVICE TYPE

23287-00      23001 NINE MILE      Government

PREVIOUS READ      CURRENT READ      CONSUMPTION      FROM: SERVICE PERIOD TO:  
1343      1373 A      320      12/13/2018      03/15/2019

DUE DATE      PAY AFTER DUE DATE      PAY BY DUE DATE

04/22/2019      4823.15      4593.48

PREVIOUS BALANCE	0.00
Water	1516.16
Sewer	2056.00
Customer Chg	342.00
Retention Basins O&M	0.49
Storm Water	678.83

**CURRENT BALANCE 4593.48**

**MONTHLY BUDGET**

19-138

Temp-Return Service Requested

8273 1 AB 0.412      8273-8273-27



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: \$4.738/unit  
Sewer rate: \$6.425/unit  
Total rate: \$11.163  
One unit = 748 gallons



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	Pay After Due Date	PAY BY DUE DATE
04/22/2019	4823.15	4593.48

**Service Address**

23001 NINE MILE

City of St. Clair Shores  
27600 Jefferson Ave  
Saint Clair Shores MI 48081-2075

**Account Number**

23287-00





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

Amount Due: **\$522.69**  
Please pay by: **April 18, 2019**

▶ **Thank You** - We received your last payment of **\$1,332.68** on **March 13, 2019**

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

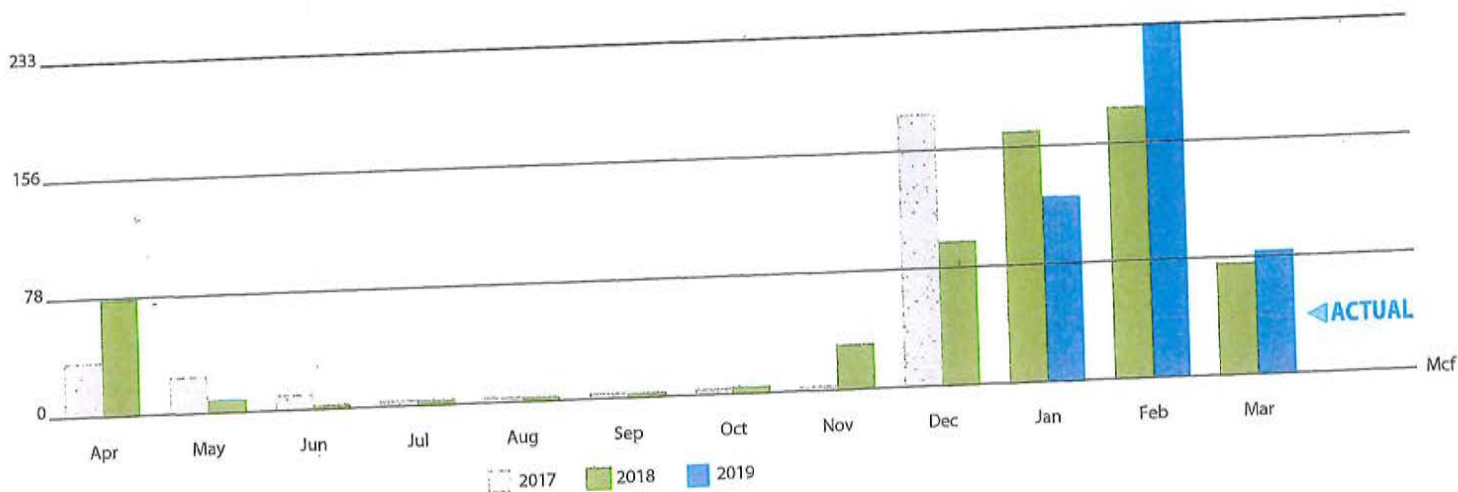
ATTN PUBLIC WORKS  
MACOMB COUNTY  
21777 DUNHAM RD  
CLINTON TOWNSHIP MI 48036-1005



Service dates: February 26, 2019 - March 25, 2019 (28 days)

**March Energy Bill**

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



Fold, detach and mail this portion with your check made payable to Consumers Energy. Please write your account number on your check.



**You can pay your bill by mail, by phone or online**  
See reverse side for more information

Account: **1000 0754 2523**

Service Address:  
MACOMB COUNTY  
23301 E 9 MILE RD  
SAINT CLAIR SHORES MI 48080-0000

PAYMENT CENTER  
PO BOX 740309  
CINCINNATI OH 45274-0309

Amount Due: **\$522.69**  
Please pay by: **April 18, 2019**  
▶ **Enclosed:**

I 100007542523 000000522698 0000 2056 0 000000000000 H



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

## Service Invoice

Invoice #: WO19001051

Date: 03/27/2019

**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> Cliff Wilkerson	<b>Due Terms:</b> 30DY
--------------------	----------------------------------	------------------------

Assembly#	Part#	Description	Equipment	Quantity	Price	Ext Price	Tax
		See Attached		1.0000	996.20	996.20	N

*8 1/2 HVAC*

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: \$</b>	<b>996.20</b>
-----------------------	---------------







# Service Report

Service Report No : 900-19-105-1



Date: March 12, 2019

Client P.O. #: N/A

**HVAC Service**

**Ready to Invoice/Work Complete**

**Site:**

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

**Client:**

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

**Reason for Call:**

perform 1st quarter P.M. on H.V.A.C equipment

**Description of Service:**

performed quarterly P.M. on H.V.A.C.equipment, at east and west buildings, West bldg. replaced filters on 3 air handlers, 1 RTU, checked operation of units, checked belts, and blr. mtrs., 1- greenheck M.A.U. checked filters and belts and operation of unit, checked operation and pressures and temps on heating heating hot water boiler, checked for leaks, on pumps and piping checked good, checked operation of radiant htrs on mtr. pump flr ceiling found 1, unit not lighting, informed Pete Checked 1 dom HWH

East bldg. checked operation of 7 gas fired unit htrs, 1 dom. HWH, 2- furnaces, checked filter, checked operation of units

checked out with Pete

**Technician Work**

Name	Date	Reg. hrs	Prem. hrs
Cliff Wilkerson	Mar 12, 2019	8	0

910000053785

00000905178 B



**Payment Coupon**



Account Number	910000053785
Due Date:	May 03, 2019
Total Due:	\$9,051.78

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
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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**



For the average Michigan residential customer, renewable energy is estimated to avoid \$3.08 per month of new coal-fired generation costs.



# Summary Of Charges

**Account Number 9100-0005-3785**

Previous Balance as of 03/11/2019	7,620.86
Payment(s) and Credit(s)	- 7,620.86
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	03/08 - 04/08/19	9,051.78
		Taxes			0.00
		Miscellaneous Charges			0.00
		<b>Current Bill</b>			<b>\$9,051.78</b>

**Amount Due on or before Due Date of 05/03/2019** **\$9,051.78**

Your current charges are due on May 3, 2019. A 2% late payment charge will be applied if paid after the due date.



Account No.	Invoice No.	Invoice Date
0322513	5534057	19-Apr-2019

BETZ,JOSEPH  
 MACOMB COUNTY OPW  
 21777 DUNHAM  
 CLINTON TOWNSHIP, MI 48036

We hope you noticed we have a new brand and logo for DTN. We believe it is important for our visual identity and brand promise to truly reflect the Vision, Mission, and Values we introduced in 2017 and live by today.

Our vision is to be *the* independent, trusted source of insights to you, our customers, who feed, protect, and fuel the world. Our mission is to empower you with intelligent and actionable insights that exceed your expectations and enable your success on a daily basis. In short, when you prosper, DTN prospers.

We believe the degree symbol in our logo exemplifies the highest degree of precision and accuracy in which we work every day to provide you with our solution and services.

<b>New Charges</b>	<b>\$ 1,471.50</b>
Late Fees	\$ 0.00
<b>Total Due</b>	<b>\$ 1,471.50</b>

Please send your payment 7-10 days before the due date to allow time for payment processing. To ensure proper payment posting, detach and return lower portion with your payment.

**Customer Service**

Billing Customer Service:  
 888-826-4282, [weatherbilling@dtn.com](mailto:weatherbilling@dtn.com)

Technical Support:  
 800-485-4000

Postal Correspondence:  
 DTN  
 9110 W Dodge Rd Ste 100  
 Omaha, NE 68114-3334

Be sure to include your name, telephone number and DTN account number whenever you contact us.

**Pay My Bill**

**Online:** Visit [myaccount.dtn.com](http://myaccount.dtn.com) to submit payments or update your contact information 24 hours a day.

**By Mail:** Send your check and payment slip to the address on payment slip below.

**By Phone:** Call billing customer service at the number provided to pay by credit card or make changes to your account MONDAY THROUGH FRIDAY 7:00AM TO 5:00PM (CST).

Detach and return this payment slip with your check payable to DTN

T1190419.001-333-00000330



Account No.	Invoice No.	Due Date
0322513	5534057	10-May-2019
Amount Due		<b>\$ 1,471.50</b>
Payment enclosed		

#BWNCVCR  
 0322513

000167 000000330



BETZ,JOSEPH  
 MACOMB COUNTY OPW  
 21777 DUNHAM RD  
 CLINTON TOWNSHIP MI 48036-1005

DTN, LLC  
 26385 NETWORK PLACE  
 CHICAGO, IL 60673-1263

10000000055340570000000003225131 00000147150



Account Number: 0322513 UserID: MACOMB4

Email: JOSEPH.BETZ@MACOMBGOV.ORG

Service Period

05/15/19-08/14/19 WxSentry Transp Online-Std \$ 144.00

**SUBTOTAL \$ 144.00**

Customer: MACOMB COUNTY OPW, CLINTON TOWNSHIP, MI

Account Number: 0322513 UserID: MACOMB5

Email: JOSEPH.BETZ@MACOMBGOV.ORG

Service Period

05/15/19-08/14/19 WxSentry Transp Online-Std \$ 144.00

**SUBTOTAL \$ 144.00**

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**Total New Charges \$ 1,471.50**

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WO18369



Fishbeck, Thompson, Carr & Huber, Inc.  
engineers | scientists | architects | constructors  
Federal I.D. No. 38-1841857 | Incorporated

**Payment Options**

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829  
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546

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

Invoice : 381853  
Invoice Date : 4/1/2019  
Project : 181748  
Project Name : Macomb Co PW/8 1/2 Drain SRF  
Project Plan  
Bill Term : 1

For Professional Services Rendered Through 3/22/2019

P.O. WO 18369

	Fee	Available	Billings		
			To Date	Previous	Current
A - MCPWO	25,000.00	11,594.00	18,160.00	13,406.00	4,754.00
Rate Labor		4,754.00			
					4,754.00
					4,754.00

6840.00

A - MCPWO

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Engineer	9.00	113.0000	1,017.00
	20.00	124.0000	2,480.00
	-----		-----
<b>Total Engineer</b>	29.00		3,497.00
Geographic Information Systems Manager	1.00	157.0000	157.00
Production Support	2.00	67.0000	134.00
Senior Environmental Specialist	1.50	149.0000	223.50
Staff Engineering Specialist	2.50	76.0000	190.00
	6.50	85.0000	552.50
	-----		-----
<b>Total Staff Engineering Specialist</b>	9.00		742.50
		<b>Total Rate Labor</b>	<b>4,754.00</b>
<b>Total Bill Task: A - MCPWO</b>			<b>4,754.00</b>

Total Project: 181748 - Macomb Co PW/8 1/2 Drain SRF Project Plan

4,754.00

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

**WORK ORDER NUMBER** WO18369

**PROJECT NUMBER** WWS-2019-005

**PROJECT NAME** State Revolving Fund Project Plan

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

**CONSULTANT NAME** FTC&H

**INVOICE DATE** 4/23/2019

**INVOICE START DATE** 3/23/2019

**INVOICE END DATE** 4/19/2019

<b>ORIGINAL CONTRACT AMOUNT</b>	\$ 25,000.00
<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>	\$ 25,000.00
(includes all approved change orders only)	
<b>TOTAL AMOUNT PREVIOUSLY INVOICED</b>	\$ 18,160.00
<b>TOTAL AMOUNT DUE THIS INVOICE</b>	\$ 5,343.32
<b>TOTAL BUDGET REMAINING</b>	\$ 1,496.68
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	





Fishbeck, Thompson, Carr & Huber, Inc.  
 engineers | scientists | architects | constructors  
 Federal I.D. No. 38-1841857 | Incorporated

**Payment Options**

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829  
 Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546

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

**Invoice:** 382820  
**Invoice Date:** 4/29/2019  
**Project:** 181748  
**Project Name:** Macomb Co PW/8 1/2 Drain SRF  
 Project Plan  
**Bill Term:** 1

For Professional Services Rendered Through 4/19/2019

P.O. WO 18369

	Fee	Available	Billings		
			To Date	Previous	Current
A - MCPWO	25,000.00	6,840.00	23,503.32	18,160.00	5,343.32
Rate Labor	5,333.00				
Unit Rate Expense	10.32				
			<b>Current Billings</b>		<u>5,343.32</u>
			<b>Amount Due This Bill</b>		<u>5,343.32</u>

**A - MCPWO**

**Rate Labor**

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer	32.00	124.0000	3,968.00
Production Support	11.00	67.0000	737.00
Senior Engineer	4.00	157.0000	628.00
<b>Total Rate Labor</b>			<b>5,333.00</b>

**Unit Rate Expenses**

<i>Account / Unit</i>	<i>Quantity</i>	<i>Amount</i>
Reproduction		
Black & White Copying	172.00	10.32
<b>Total Unit Rate Expenses</b>		<b>10.32</b>

**Total Bill Task: A - MCPWO**

**5,343.32**

**Total Project: 181748 - Macomb Co PW/8 1/2 Drain SRF Project Plan**

**5,343.32**



HESCO  
28838 Van Dyke Road  
Warren MI 48093  
248 476-7660

# Unit Billing

HESCO Job: 161025  
Application: 7  
Period: 04/18/2019

**Owner:** Macomb County Public Works  
21777 Dunham Road  
Clinton Twp MI 48036

**Job Location:** 161025 Macomb SEMCWDS PM  
21777 Dunham Road  
Clinton Twp MI 48036

**Attention:** Vince Astorino

## Application For Payment On Contract Contractor's Certification of Work

Contract Sum to Date .....	63,899.00
Total Complete to Date .....	14,400.00
Total Retained .....	0.00
Total Earned Less Retained .....	14,400.00
Less Previous Billings .....	13,200.00
Current Payment Due .....	1,200.00
Balance on Contract .....	49,499.00

The undersigned contractor certifies that, to the best of the contractor's knowledge, the work on the above named job has been completed in accordance with the plans and specifications to the level of completion indicated on the attached schedule of completion.



Date: 4/18/19

*Terms: Invoices are due and payable 30DY from the date of invoice. All overdue amounts will be charged a service charge of 0.00 % per anum. Please make checks payable to: HESCO*

*Thank you for your prompt payment.*

**SUBMITTED BY:** HESCO  
 28838 Van Dyke Road  
 Warren MI 48093

**PROJECT:** 161025 Macomb SEMCWDS PM  
 21777 Dunham Road  
 Clinton Twp MI 48036

HESCO Job: 161025  
 Application: 7  
 Period: 04/18/2019

Unit Billing

Schedule of Work Completed

Bid It	Description	Price/Unit	Contract Plus Changes	Previous Units Billed	Current Units Complete	Total Units Complete	Previous Value	Current Value	Total Value
	Chapaton 9 Mile Dr	300.00	900.00	1.00		1.00	300.00		300.00
	Chapaton Dry Flow Pump #1	300.00	900.00	2.00		2.00	600.00		600.00
	Chapaton Intermedi	300.00	900.00	2.00		2.00	600.00		600.00
	Chapaton Wet well	300.00	900.00	1.00	1.00	2.00	300.00	300.00	600.00
	Chapaton North Su	300.00	900.00	1.00	1.00	2.00	300.00	300.00	600.00
	Chapaton South Su	300.00	900.00	1.00	1.00	2.00	300.00	300.00	600.00
	Jefferson & 9 Mile	300.00	900.00	2.00		2.00	600.00		600.00
	Chapaton East								
	NaOCI Flow to Head Tanks	300.00	900.00	1.00		1.00	300.00		300.00
	NaOCI Storage Tank 1	300.00	900.00	2.00		2.00	600.00		600.00
	NaOCI Storage Tank 2	300.00	900.00	2.00		2.00	600.00		600.00
	NaOCI Storage Tank 3	300.00	900.00	2.00		2.00	600.00		600.00
	Fisher Porter Mag.	300.00	900.00						
	Fisher Porter Mag.	300.00	900.00						
	NaOCI Head Tank Level 1	300.00	900.00						
	NaOCI Head Tank Level 2	300.00	900.00						
	Chapaton West Basin Level	300.00	900.00	2.00		2.00	600.00		600.00
	Chapaton Outfall Building								
	Chapaton Canal Lake Side	300.00	900.00	2.00		2.00	600.00		600.00
	Chapaton Canal Canal Side	300.00	900.00	2.00		2.00	600.00		600.00
	Martin Retention Basin								
	Drain East of Dry Flow Gates	300.00	900.00	2.00		2.00	600.00		600.00
	Drain West of Dry Flow Gates	300.00	900.00	2.00		2.00	600.00		600.00
	Basin Level	300.00	900.00	2.00		2.00	600.00		600.00
	NaOCI Flow to Head Tanks	300.00	900.00						
	NaOCI Storage Tank 1	300.00	900.00	2.00		2.00	600.00		600.00
	NaOCI Storage Tank 2	300.00	900.00	2.00		2.00	600.00		600.00



**SUBMITTED BY:** HESCO  
 28838 Van Dyke Road  
 Warren MI 48093

**PROJECT:** 161025 Macomb SEMCWDS PM  
 21777 Dunham Road  
 Clinton Twp MI 48036

HESCO Job: 161025  
 Application: 7  
 Period: 04/18/2019

Unit Billing

Schedule of Work Completed

Bid It	Description	Price/Unit	Contract Plus Changes	Previous Units Billed	Current Units Complete	Total Units Complete	Previous Value	Current Value	Total Value
Chlorination 1"		300.00	900.00						
Bon Hour Pump Station									
Flow ( Flume)		300.00	900.00	2.00		2.00	600.00		600.00
Effluent (Harper)		300.00	900.00	2.00		2.00	600.00		600.00
Influent Ultrasonic		300.00	900.00	2.00		2.00	600.00		600.00
Influent Pressure Transducer		300.00	900.00						
Violet Pump Station									
Wet Well Level (Pre		300.00	900.00	1.00		1.00	300.00		300.00
Wet Well Level ( Ca		300.00	900.00						
Proposed Chemical		300.00	900.00	2.00		2.00	600.00		600.00
Proposed Chemical		300.00	900.00	2.00		2.00	600.00		600.00
Proposed Flow Meter		300.00	900.00						
8 1/2 Mile Drian Re		300.00	900.00		1.00	1.00		300.00	300.00
Instrumentation Replacement									
Chapaton NaoCl He		5,200.00	5,200.00						
Chapaton NaoCl He		5,200.00	5,200.00						
Fisher Porter Magn		7,333.00	7,333.00						
Fisher Porter Magn		7,333.00	7,333.00						
Martin Chlorination - 1"		7,333.00	7,333.00						
<b>Totals:</b>			<b>63,899.00</b>	<b>44.00</b>	<b>4.00</b>	<b>48.00</b>	<b>13,200.00</b>	<b>1,200.00</b>	<b>14,400.00</b>



J&J Roofing, Co.  
 29522 Little Mack  
 Roseville, MI 48066

Invoice

Invoice #: 00923001

Bill To:

Chapaton Pumping Station  
 23001 E 9 Mile Road  
 St. Clair Shores, MI 48080

Ship To:

Chapaton Pumping Station  
 23001 E 9 Mile Road  
 St. Clair Shores, MI 48080

SALESPERSON		YOUR NO.	SHIP VIA	COL	PPD	SHIP DATE	TERMS	DATE	PG.
Pat Evanoff				X			C.O.D.	3/9/2019	1
QTY.	ITEM NO.	DESCRIPTION			PRICE	UNIT	DISC %	EXTENDED	TX.
1	REP	REPAIR MISSING TRIM METAL			\$800.00			\$800.00	
						<i>8 1/2 Chap w siding repair</i>			
						Sale Amt.:		\$800.00	
						Freight:		\$0.00	
						Sales Tax:		\$0.00	
						Total Amt.:		\$800.00	
						Paid Today:		\$0.00	
						Balance Due:		\$800.00	



V 69531  
(01)

Remittance Address:  
Jack Doheny Companies, Inc.  
L-3846  
Columbus, OH 43260-3846



Phone (248) 349-0904  
Fax (248) 349-2774  
www.DohenyCompanies.com

Customer: MACO001      I N V O I C E      Invoice: A20005      Pg: 1  
Date: 3/29/19

Sold To  
~~MACOMB COUNTY~~  
ROAD COMMISSION  
117 S. GROESBECK HWY  
MT. CLEMENS MI 48043

Ship To  
KRIS BENDA  
MACOMB COUNTY  
PUBLIC WORKS  
21777 DUNHAM RD  
CLINTON TWP MI 48036

586-463-8671

586/480-9368

Ship Via FED EX STD

FOB DELIVER

Br	Trk	Make	Model	Serial	Equipment	Meter	Sls	Customer	P.O.
001							AM	KRIS	

Ordr	Ship	B/O	Description	List	Each	Amount
			Taken By Adam Mazzara	Opened	3/14/19	
				Shipped	3/29/19	
1	1		CS 2005-100G	2,050.00	2,050.00	2,050.00
			SELF RETRACTING LIFE			
1	1		CS 100/9	850.00	850.00	850.00
			9' TRIPOD			
1	1		CS AX-ADSK-1	125.00	125.00	125.00
			ADAPTER FOR SKEDCO			
1	1		CS AX-ADSK-1	125.00	125.00	125.00
			ADAPTER FOR SKEDCO			
			TOTAL PARTS			3,150.00
	1		PARTS SHIPPING & HANDLING		.00	205.64
			MICHIGAN MUNICIPAL TAX EXEMPT			.00
			NO SHIPPING INFO			

\* Interested in receiving your invoices by email \*  
\* For details call 800-336-4369 and ask for A/R \*

Total 3,355.64



www.jcichemicals.com

**INVOICE**

Inv Date	Invoice #
04/22/2019	786797
Date Shipped	Order/BOL #
04/22/2019	580686

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

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	
VBL-PETE		Destination		Delivered		NORTH	
Release #		Ship Via		Terms		Due Date	
		JCI		N 30		05/22/2019	
Discount Due Date		Amount		Unit Price		Total Quantity	
5/22/2019		4,125.60		0.9000 /Gal		4,584.0000/Gal	
Units	Package	Product Name		Unit Price		Amount	
4,584.00	1 Gal Bulk	HYPOCHLORITE SOLUTION, SS150 1201-001 BULK (\$85 Stop Fee) (+ fsc)		0.9000 /Gal		4,125.60	
General Remarks:		<> EMAIL INVOICE TO: michelle.houvener@macombgov.org <> OUTSIDE CARRIER: HAROLD MARCUS NET WEIGHT: 46 220 FSC					
		Fuel Surcharge				21.46	

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Total: **4,147.06**

PLEASE PAY  
THIS AMOUNT



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

\*JCI Welcomes payments via ACH, EFT and WIRE\*



# KENNEDY INDUSTRIES

INNOVATE  
SOLVE  
MONITOR  
REPAIR

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

100% Chapaton

INVOICE		
DATE	NUMBER	PAGE
4/12/2019	610100	1 of 1

B MAC152  
I MACOMB COUNTY PUBLIC WORKS  
L 21777 DUNHAM RD.  
L CLINTON TWP, MI 48036  
T  
O

S MACOMB COUNTY PUBLIC WORKS  
H 23001 9 MILE RD  
I  
P ST. CLAIR SHORE, MI 48080  
T  
O

ATTENTION:

BOB BUGAMELLI 586-557-1148

CUSTOMER REF/PO #	JOB #	JOB TITLE	SLP	SHIPPING TYPE
	0098428	CHAPATON STATION, FIELD SERVICE	KES/LAA	FIELD SERVICE

QUANTITY		PART NO.	DESCRIPTION	UNIT PRICE	EXTENDED
B/O	Ship				
0.00	8.00	MAC152CHAPATON	MACOMB CO, CHAPATON STATION . KENNEDY INDUSTRIES PROVIDED (1) FIELD SERVICE TECHNICIAN(S) ONSITE ON 04-11-19. PLEASE SEE THE ATTACHED SERVICE REPORT.	\$135.00	\$1,080.00
0.00	1.00	TRAVEL	SERVICE VEHICLE	\$135.00	\$135.00

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

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

SUBTOTAL: \$ 1,215.00  
 TAX: \$ 0.00  
 TOTAL: \$ 1,215.00

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





**KENNEDY**  
INDUSTRIES

INNOVATE  
SOLVE  
MONITOR  
REPAIR

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

**FIELD SERVICE REPORT**

DATE: 04-11-19      TECHNICIAN: G.PHIPPS S.ELLIS      CUSTOMER: MACOMB COUNTY PUBLIC WORKS  
 WO #: 098428001001000      JOB TY: FIELD SERVICE      STATION: CHAPATAN STATION

WORK SCOPE AND TOOLS NEEDED:

START TIME: 08:00AM

CONFINED SPACE

VALVES ARE NOT OPENING WHEN THEY SHOULD DURING BACKWASH

TROUBLESHOOT

WORK PERFORMED:

- ARRIVED ON SITE.
- MET WITH PETE.
- PETE STATED THAT MAG FLOW METER ON SCADA WAS SHOWING A NEGITIVE FLOW THROUGH SWINGARM CHECK VALVE.
- CUSTOMER ISOLATED VALVE FROM SYSTEM AND TAGGED OUT PUMP, VERIFIED DONE.
- REMOVED AIR DAMPNER AND VERFIED DAMPNER WAS NOT CAUSING VALVE TO STICK OPEN. WORKING AS SHOULD.
- OPENED THE TOP OF VALVE.
- FOUND NO DEBRIS PREVENTING VALVE FROM SEATING.
- INSPECTED VALVE SEAT, WAS STARTING TO FEEL WORN.
- CLEANED ARM SHAFT AND REMOVED PACKING NUT. FOUND NO DEBRIS CAUSING STICKING.
- REASSEMBLED VALVE.
- HAD CUSTOMER CLEAR LOCK OUT AND RESTORE SYSTEM TO OPERATION.
- TRIED LIFTING SWING ARM, COULD ONLY LIFT WITH A LOT OF EFFORT, DIDNT FEEL LIKE VALVE WAS LEAKING BY.
- RAN PUMP FOR ONE MINUTE.
- WHEN PUMP STOPPED VALVE CLOSED AS SHOULD, MAG FLOW METER SHOWED ZERO BACK FLOW.
- REPEATED A FEW TIMES.
- SAME RESULTS.
- LEFT SYSTEM IN OPERATION AND TOLD PETE TO MONITOR TO SEE IF ISSUE RETURNED.
- CLEANED UP SITE.
- FILLED OUT PAPERWORK OFF SITE.

Nickel & Saph, Inc.  
P. O. Box 46907  
Mt. Clemens, MI 48046-6907  
Phone: 586-463-4573

<b>INVOICE NO. 19668</b>		<b>Page 1</b>
<b>ACCOUNT NO.</b>	<b>CSR</b>	<b>DATE</b>
MACO-17	AJ	04/08/2019
<b>Commercial Application</b>		
<b>POLICY #</b>		
2902101-01		
<b>EFFECTIVE</b>	<b>EXPIRATION</b>	<b>BALANCE DUE ON</b>
04/26/2019	04/26/2020	04/26/2019

Macomb County Intra-County  
Drains Drainage Districts  
21777 Dunham Road  
Clinton Twp., MI 48036

106850

<b>Itm #</b>	<b>Eff Date</b>	<b>Trn</b>	<b>Type</b>	<b>Description</b>	<b>Amount</b>
69520	04/26/19	MEM	PCKG	Excess Liability Renewal	\$185,706.00
<b>Invoice Balance:</b>					<b>\$185,706.00</b>

Thank you.

Nickel & Saph, Inc.  
P. O. Box 46907  
Mt. Clemens, MI 48046-6907  
Phone: 586-463-4573 Fax: 586-463-3135

**MEMO**

Page 1

ACCOUNT NO.	OP	DATE
MACO-17	SJ	04/08/2019
POLICY INFORMATION		
POLICY#		
2902101-01		
TYPE	EFFECTIVE	EXPIRATION
PCKG	04/26/2019	04/26/2020

Macomb County Intra-County  
Drains Drainage Districts  
21777 Dunham Road  
Clinton Twp., MI 48036

**Bruce Manning:**

**Re: Renewal**

Enclosed, please find an invoice for the April 26, 2019 renewal of the excess liability insurance and a binder which demonstrates that coverage has been renewed. As soon as the renewal policy is issued, I'll drop off the paperwork. If questions, just call. Many thanks.



Stephen R. Saph Jr.





# INSURANCE BINDER

CSR: AJ

DATE (MM/DD/YYYY)

4/8/2019

**THIS BINDER IS A TEMPORARY INSURANCE CONTRACT, SUBJECT TO THE CONDITIONS SHOWN ON THE REVERSE SIDE OF THIS FORM.**

AGENCY <b>Nickel &amp; Saph, Inc.</b> P. O. Box 46907 Mt. Clemens, MI 48046-6907 Stephen R. Saph Jr.		COMPANY <b>Argonaut Insurance Co.</b>		BINDER # <b>1733</b>	
PHONE (A/C, No, Ext): <b>586-463-4573</b>		FAX (A/C, No): <b>586-463-3135</b>		X THIS BINDER IS ISSUED TO EXTEND COVERAGE IN THE ABOVE NAMED COMPANY PER EXPIRING POLICY #: <b>2902101-00</b>	
CODE:		SUB CODE:		DESCRIPTION OF OPERATIONS/VEHICLES/PROPERTY (Including Location)	
AGENCY CUSTOMER ID: <b>MACO-17</b>		INSURED <b>Macomb County Intra-County Drains Drainage Districts 21777 Dunham Road Clinton Twp. MI 48036</b>		<b>Various drainage districts all located within (intra) Macomb County.</b>	
DATE EFFECTIVE		TIME		EXPIRATION DATE	
<b>04/26/19</b>		<b>12:01</b>		<b>06/26/19</b>	
		X AM		X 12:01 AM	
		PM		NOON	

COVERAGES		LIMITS		
TYPE OF INSURANCE	COVERAGE/FORMS	DEDUCTIBLE	COINS %	AMOUNT
PROPERTY CAUSES OF LOSS <input type="checkbox"/> BASIC <input type="checkbox"/> BROAD <input type="checkbox"/> SPEC				N/A
GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Public Officials' Liab.	RETRO DATE FOR CLAIMS MADE:	EACH OCCURRENCE	\$	11,000,000
		DAMAGE TO RENTED PREMISES	\$	EXCLUDED
		MED EXP (Any one person)	\$	EXCLUDED
		PERSONAL & ADV INJURY	\$	11,000,000
		GENERAL AGGREGATE	\$	12,000,000
		PRODUCTS - COMP/OP AGG	\$	11,000,000
AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		COMBINED SINGLE LIMIT	\$	11,000,000
		BODILY INJURY (Per person)	\$	
		BODILY INJURY (Per accident)	\$	
		PROPERTY DAMAGE	\$	
		MEDICAL PAYMENTS	\$	N/A
		PERSONAL INJURY PROT	\$	EXCLUDED
		UNINSURED MOTORIST	\$	EXCLUDED
AUTO PHYSICAL DAMAGE DEDUCTIBLE <input type="checkbox"/> COLLISION: _____ <input type="checkbox"/> OTHER THAN COL: _____	<input type="checkbox"/> ALL VEHICLES <input type="checkbox"/> SCHEDULED VEHICLES	ACTUAL CASH VALUE		
		STATED AMOUNT	\$	N/A
		OTHER		
GARAGE LIABILITY <input type="checkbox"/> ANY AUTO		AUTO ONLY - EA ACCIDENT	\$	N/A
		OTHER THAN AUTO ONLY:		
		EACH ACCIDENT	\$	
		AGGREGATE	\$	
EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM	RETRO DATE FOR CLAIMS MADE:	EACH OCCURRENCE	\$	N/A
		AGGREGATE	\$	
		SELF-INSURED RETENTION	\$	
WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY		WC STATUTORY LIMITS		
		E.L. EACH ACCIDENT	\$	N/A
		E.L. DISEASE - EA EMPLOYEE	\$	
		E.L. DISEASE - POLICY LIMIT	\$	
SPECIAL CONDITIONS/OTHER COVERAGES	Additional Named Insureds - 140 Chapter 20 Drains, 9 Chapter 4 Drains, and 25 Act 342 Drains. Covered claims subject to a \$250,000 per occurrence self-insured retention.	FEES	\$	
		TAXES	\$	
		ESTIMATED TOTAL PREMIUM	\$	

NAME & ADDRESS		MORTGAGEE	ADDITIONAL INSURED
		LOSS PAYEE	
		LOAN #	
		AUTHORIZED REPRESENTATIVE	
		<b>Stephen R. Saph Jr.</b>	
		<i>Stephen R. Saph Jr.</i>	

Chapter 20  
Insurance Cost Breakdown  
April 26, 2019 Renewal

DRAIN NAME	PERCENT	PORTION OF INSURANCE
Eight Half Mile Relief	2.000%	\$ 3,714.12
MIDDD	98.000%	\$ 181,991.88

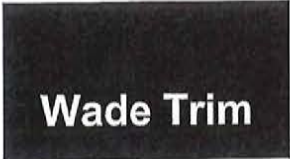
Insurance bill	\$ 185,706.00
----------------	---------------

\*\*\* After an analysis of the 2018 expenses, other drain's portions were minimal and insignificant

*Board approved*  
4/8/19

WO 18374

INVOICE



Wade Trim  
25251 Northline Road • Taylor, MI 48180  
734.947.9700 • FAX: 734.947.1380 • www.wadetrим.com  
Federal ID 38-1802386

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

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

Invoice Date : April 1, 2019  
Invoice # : M2014218  
Project # : MCW200501T

Remit payment to : Wade Trim  
P.O. Box 10  
Taylor, MI 48180

Re: Chapaton RTB Canal Upgrades

For Professional Services rendered from 3/1/2019 through 3/22/2019

Total Salaries	\$22,253.75
Total Expenses	\$5,408.14
Professional Services Rendered	<u>\$27,661.89</u>

**Amount Due This Invoice \$27,661.89**

Statement	
Prior Invoices	\$0.00
This Invoice	\$27,661.89
Total Invoiced	\$27,661.89
Paid to Date	\$0.00
Amount Outstanding	\$27,661.89

Fee Summary	
Authorized Fee	\$977,611.00
Total Invoiced	\$27,661.89
Amount Remaining	\$949,949.11





Wade Trim  
 25251 Northline Road • Taylor, MI 48180  
 734.947.9700 • FAX: 734.947.1380 • www.wadetrिम.com  
 Federal ID 38-1802386

**INVOICE**

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

Invoice Date : April 1, 2019  
 Invoice # : M2014218  
 Project # : MCW200501T

Phase: 100 -- Project Management  
 Task: 1A1 -- Project Management

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
<b>Senior Professional</b>				
	02/28/2019	4.00	\$215.00	\$860.00
	03/01/2019	4.00	\$215.00	\$860.00
	03/04/2019	2.00	\$215.00	\$430.00
	03/05/2019	4.00	\$215.00	\$860.00
	03/06/2019	4.00	\$215.00	\$860.00
	03/08/2019	2.00	\$215.00	\$430.00
	03/11/2019	4.00	\$215.00	\$860.00
	03/12/2019	2.00	\$215.00	\$430.00
	03/13/2019	2.50	\$215.00	\$537.50
	03/14/2019	3.00	\$215.00	\$645.00
	03/15/2019	2.00	\$215.00	\$430.00
	03/19/2019	2.00	\$215.00	\$430.00
	03/21/2019	1.00	\$215.00	\$215.00
	03/22/2019	2.00	\$215.00	\$430.00
		-----		-----
		38.50		\$8,277.50

**Total Rate Schedule Labor** **\$8,277.50**

Total Task : 1A1 -- Project Management Labor : \$8,277.50  
Expense : \$0.00

**Task: 1A2 -- Project Management Support**

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
<b>Engineer I</b>				
	03/01/2019	6.00	\$100.00	\$600.00
	03/13/2019	0.50	\$100.00	\$50.00
	03/18/2019	1.00	\$100.00	\$100.00
	03/20/2019	1.00	\$100.00	\$100.00
		-----		-----
		8.50		\$850.00
<b>Professional Engineer IV</b>				
	02/28/2019	1.00	\$190.00	\$190.00
		-----		-----
		1.00		\$190.00

**Total Rate Schedule Labor** **\$1,040.00**

# INVOICE

## Wade Trim

Wade Trim  
 25251 Northline Road • Taylor, MI 48180  
 734.947.9700 • FAX: 734.947.1380 • www.wadetrिम.com  
 Federal ID 38-1802386

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

Invoice Date : April 1, 2019  
 Invoice # : M2014218  
 Project # : MCW200501T

**Phase: 100 -- Project Management**

Total Task : 1A2 -- Project Management Support

Labor : \$1,040.00  
 Expense : \$0.00

Total Phase : 100 -- Project Management	Labor :	\$9,317.50
	Expense :	\$0.00

**Phase: 200 -- Preliminary Design**

Task: 2A1 -- Rvw Existing Documents

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
Project Aide II	03/20/2019	1.00	\$95.00	\$95.00
		----- 1.00		----- \$95.00
Project Specialist II	03/19/2019	3.00	\$150.00	\$450.00
	03/20/2019	6.00	\$150.00	\$900.00
		----- 9.00		----- \$1,350.00
- Senior Professional	03/04/2019	1.00	\$215.00	\$215.00
	03/06/2019	1.00	\$215.00	\$215.00
	03/08/2019	2.00	\$215.00	\$430.00
	03/11/2019	1.00	\$215.00	\$215.00
	03/13/2019	2.00	\$215.00	\$430.00
	03/15/2019	3.00	\$215.00	\$645.00
	03/18/2019	2.00	\$215.00	\$430.00
	03/19/2019	2.00	\$215.00	\$430.00
	03/21/2019	1.00	\$215.00	\$215.00
		----- 15.00		----- \$3,225.00

**Total Rate Schedule Labor**

**\$4,670.00**

Total Task : 2A1 -- Rvw Existing Documents

Labor : \$4,670.00  
 Expense : \$0.00

**Task: 2A2 -- Survey**

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
------------	------	-------	------	--------



Wade Trim  
 25251 Northline Road • Taylor, MI 48180  
 734.947.9700 • FAX: 734.947.1380 • www.wadetrim.com  
 Federal ID 38-1802386

**INVOICE**

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

Invoice Date : April 1, 2019  
 Invoice # : M2014218  
 Project # : MCW200501T

Phase: 200 -- Preliminary Design  
 Task: 2A2 -- Survey

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
<b>2-Man Survey Crew</b>	03/20/2019	8.00	\$175.00	\$1,400.00
	03/20/2019	1.50	\$262.50	\$393.75
		----- 9.50		----- \$1,793.75
<b>CADD Technician IV</b>	03/20/2019	1.00	\$100.00	\$100.00
	03/21/2019	1.00	\$100.00	\$100.00
	03/22/2019	1.00	\$100.00	\$100.00
		----- 3.00		----- \$300.00
<b>Professional Surveyor III</b>	03/15/2019	1.00	\$140.00	\$140.00
	03/19/2019	1.00	\$140.00	\$140.00
	03/21/2019	1.00	\$140.00	\$140.00
	03/22/2019	0.50	\$140.00	\$70.00
		----- 3.50		----- \$490.00
<b>Senior Professional</b>	03/18/2019	1.00	\$215.00	\$215.00
	03/19/2019	1.00	\$215.00	\$215.00
	03/20/2019	2.00	\$215.00	\$430.00
		----- 4.00		----- \$860.00
<b>Total Rate Schedule Labor</b>				<b>\$3,443.75</b>

**Unit Pricing Expenses**

Vendor / Employee Name	Doc Nbr	Date	Units	Rate	Amount
<b>Travel/Company Vehicles</b>	27912	03/20/2019	144.00	\$0.630	\$90.72
					----- 90.72
<b>GPS Equipment</b>	001968	03/20/2019	9.50	\$20.000	\$190.00
					----- 190.00
<b>Total Unit Pricing</b>					<b>\$280.72</b>



# INVOICE

## Wade Trim

Wade Trim  
 25251 Northline Road • Taylor, MI 48180  
 734.947.9700 • FAX: 734.947.1380 • www.wadetrिम.com  
 Federal ID 38-1802386

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

Invoice Date : April 1, 2019  
 Invoice # : M2014218  
 Project # : MCW200501T

**Phase: 200 -- Preliminary Design**

Total Task : 2A2 -- Survey

Labor : \$3,443.75  
 Expense : \$280.72

**Task: 2A3 -- Site Visit**

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
Senior Professional	03/20/2019	2.00	\$215.00	\$430.00
		----- 2.00		----- \$430.00
<b>Total Rate Schedule Labor</b>				<b>\$430.00</b>

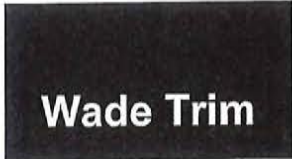
Total Task : 2A3 -- Site Visit

Labor : \$430.00  
 Expense : \$0.00

**Task: 2A4 -- Meetings**

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
Engineer IV	03/14/2019	2.50	\$150.00	\$375.00
		----- 2.50		----- \$375.00
Professional LA III	03/20/2019	2.50	\$150.00	\$375.00
	03/21/2019	3.75	\$150.00	\$562.50
		----- 6.25		----- \$937.50
Professional Surveyor III	03/14/2019	0.50	\$140.00	\$70.00
		----- 0.50		----- \$70.00
Senior Professional	02/28/2019	4.00	\$215.00	\$860.00
	03/12/2019	1.00	\$215.00	\$215.00
	03/14/2019	2.00	\$215.00	\$430.00
	03/20/2019	1.00	\$215.00	\$215.00
	03/21/2019	4.00	\$215.00	\$860.00
	03/20/2019	2.00	\$215.00	\$430.00
	----- 14.00			----- \$3,010.00



Wade Trim  
 25251 Northline Road • Taylor, MI 48180  
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 Federal ID 38-1802386

**INVOICE**

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

Invoice Date : April 1, 2019  
 Invoice # : M2014218  
 Project # : MCW200501T

**Phase: 200 -- Preliminary Design**

**Task: 2A4 -- Meetings**

*Total Rate Schedule Labor* **\$4,392.50**

Total Task : 2A4 -- Meetings Labor : \$4,392.50  
Expense : \$0.00

Total Phase : 200 -- Preliminary Design	Labor :	\$12,936.25
	Expense :	\$280.72

**Phase: 600 -- Subcontractors**

**Task: 6A1 -- Applied Science**

**Regular Expenses**

Vendor Name	Doc Nbr	Date	Amount
<b>Subconsultants</b>			
	20015105	03/26/2019	\$1,708.88
			----- \$1,708.88
<b>Total Regular Expenses</b>			<b>\$1,708.88</b>

Total Task : 6A1 -- Applied Science Labor : \$0.00  
Expense : \$1,708.88

**Task: 6A2 -- NTH Consultants**

**Regular Expenses**

Vendor Name	Doc Nbr	Date	Amount
<b>Subconsultants</b>			
	20015081	03/26/2019	\$3,418.54
			----- \$3,418.54
<b>Total Regular Expenses</b>			<b>\$3,418.54</b>

Total Task : 6A2 -- NTH Consultants Labor : \$0.00  
Expense : \$3,418.54

Total Phase : 600 -- Subcontractors	Labor :	\$0.00
	Expense :	\$5,127.42

Work Description:

Attended project kick-off meeting with MCPWO staff on February 28, 2019. Set up project accounting and File Management Systems. Conducted internal team kick off meeting and coordination requirements for development of site drawings. Gathered and initiated review of historical aerial photos and construction drawings for Chapaton facility. Conducted site control survey to verify integration of drone flight aerial survey data with existing facility BIM model prepared by others. Prepared draft technical memorandum for review of historical documents. Developed preliminary soil bore location plan for geotechnical investigation. Attended Great Lakes Commission Chapaton Site Visit held on March 21, 2019. Initiated review of hydraulic parameters for use in formulating alternatives.





# Applied Science, Inc.

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

March 26, 2019

Invoice #1 (ASI Inv. #7309)

John Arvai, P.E.  
Wade Trim  
25251 Northline Road  
Taylor, Michigan 48180

RE: RTB Canal Upgrades  
(ASI Job No. 1831)

Services provided from December 9, 2018 through March 23, 2019.

<u>Employee</u>	<u>Classification</u>	<u>Direct Labor Hrs.</u>	<u>Hourly Rate</u>	<u>Total</u>
John Michalski	Sr. Project Manager	10.5	\$ 155.00	\$ 1,627.50
Total Labor:				\$ 1,627.50
Total this invoice:				\$ 1,627.50
Previous Amount Invoiced:				\$ -
Total Invoiced To-Date:				\$ 1,627.50
Not To Exceed:				\$ 68,005.00
Amount Remaining:				\$ 66,377.50
<b>Total Amount Due This Invoice:</b>				<b>\$ 1,627.50</b>



NTH Consultants, Ltd.

Infrastructure Engineering and Environmental Services

# INVOICE

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

Invoice #: 617907  
Project: 62190022  
Invoice Group: \*\*  
Invoice Date: 03/25/2019

**Attention: Accounts Payable**

For Professional Services Rendered through: 3/22/2019

P.O./Ref #:

Engineering services related to the expansion of the Chapaton Basin

Phase Name	Maximum Budget	Previous Billings	Current Charges	Remaining Budget
10 -- Project Management	28,890.00	0.00	740.00	28,150.00
20 -- Preliminary Design	99,060.00	0.00	2,515.75	96,544.25
30 -- Final Design	91,200.00	0.00	0.00	91,200.00
40 -- Bidding Assistance	9,360.00	0.00	0.00	9,360.00
Project Total	228,510.00	0.00	3,255.75	225,254.25

Amount Due This Invoice : \$ 3,255.75

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 # : 617907

Phase : 10 -- Project Management

Rate Schedule Labor	Date	Hours	Rate	Amount
<b>Sr Principal Engineer</b>				
Roarty, Charles	02/28/2019	3.50	185.00	647.50
	03/15/2019	0.50	185.00	92.50
<i>Rate Schedule Labor</i>		<b>4.00</b>		<b>740.00</b>
<b>Total Phase : 10 -- Project Management</b>				<b>Labor : 740.00</b>
				<b>Expense : 0.00</b>

Phase : 20 -- Preliminary Design

Rate Schedule Labor	Date	Hours	Rate	Amount
<b>Cadd Operator</b>				
Bryan, Stephen H.	03/21/2019	0.50	85.00	42.50
	03/22/2019	1.50 Overtime	85.00	127.50
	03/22/2019	1.25	85.00	106.25
<b>Sr Principal Engineer</b>				
Roarty, Charles	03/15/2019	3.00	185.00	555.00
	03/16/2019	6.50	185.00	1,202.50
	03/18/2019	0.50	185.00	92.50
	03/19/2019	0.50	185.00	92.50
	03/20/2019	0.50	185.00	92.50
	03/21/2019	1.00	185.00	185.00
<i>Rate Schedule Labor</i>		<b>15.25</b>		<b>2,496.25</b>

Unit Pricing Expenses	Units	Rate	Amount
<b>Per Unit Expenses</b>			
CADD Supplies	3.25 HOUR(S) @	6.00	19.50
<i>Unit Pricing</i>			<b>19.50</b>

**Total Phase : 20 -- Preliminary Design**      **Labor : 2,496.25**  
**Expense : 19.50**

**Total Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades**      **3,255.75**

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

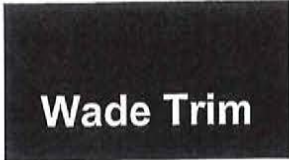
TERMS: Due upon receipt. One percent (1%) interest per month charged on invoices over 30 days old.

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.



W018374

INVOICE



Wade Trim  
25251 Northline Road • Taylor, MI 48180  
734.947.9700 • FAX: 734.947.1380 • www.wadetrим.com  
Federal ID 38-1802386

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

Macomb County Public Works  
21777 Dunham Road  
Clinton Township, MI 48036

Attention: Vince Astorino  
Operations and Flow Manager

Invoice Date : April 26, 2019  
Invoice # : M2014455  
Project # : MCW200501T

Remit payment to : Wade Trim  
P.O. Box 10  
Taylor, MI 48180

Re: Chapaton RTB Canal Upgrades

For Professional Services rendered from 3/23/2019 through 4/19/2019

Total Salaries	\$32,727.50
Total Expenses	\$12,847.23
Professional Services Rendered	<u>\$45,574.73</u>

**Amount Due This Invoice \$45,574.73**

Statement	
Prior Invoices	\$27,661.89
This Invoice	\$45,574.73
Total Invoiced	\$73,236.62
Paid to Date	\$0.00
<b>Amount Outstanding</b>	<b>\$73,236.62</b>

Fee Summary	
Authorized Fee	\$977,611.00
Total Invoiced	\$73,236.62
<b>Amount Remaining</b>	<b>\$904,374.38</b> ✓

# INVOICE

## Wade Trim

Wade Trim  
 25251 Northline Road • Taylor, MI 48180  
 734.947.9700 • FAX: 734.947.1380 • www.wadetrिम.com  
 Federal ID 38-1802386

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

Invoice Date : April 26, 2019  
 Invoice # : M2014455  
 Project # : MCW200501T

Phase: 100 -- Project Management

Task: 1A1 -- Project Management

### Rate Schedule Labor

Class Name	Date	Hours	Rate	Amount
Project Aide II	04/09/2019	1.00	\$95.00	\$95.00
		----- 1.00		----- \$95.00
Senior Professional	03/25/2019	2.50	\$215.00	\$537.50
	04/03/2019	4.00	\$215.00	\$860.00
	04/04/2019	2.00	\$215.00	\$430.00
	04/05/2019	5.00	\$215.00	\$1,075.00
	04/08/2019	2.00	\$215.00	\$430.00
	04/09/2019	2.00	\$215.00	\$430.00
	04/10/2019	4.00	\$215.00	\$860.00
	04/16/2019	2.00	\$215.00	\$430.00
	04/17/2019	2.00	\$215.00	\$430.00
	04/18/2019	1.00	\$215.00	\$215.00
	04/19/2019	1.00	\$215.00	\$215.00
			----- 27.50	
<b>Total Rate Schedule Labor</b>				<b>\$6,007.50</b>

Total Task : 1A1 -- Project Management      Labor : \$6,007.50  
 Expense : \$0.00

Task: 1A2 -- Project Management Support

### Rate Schedule Labor

Class Name	Date	Hours	Rate	Amount
Engineer I	03/25/2019	1.00	\$100.00	\$100.00
	03/27/2019	2.00	\$100.00	\$200.00
	03/28/2019	2.00	\$100.00	\$200.00
	03/29/2019	2.00	\$100.00	\$200.00
	04/01/2019	2.00	\$100.00	\$200.00
	04/02/2019	2.00	\$100.00	\$200.00
	04/03/2019	6.00	\$100.00	\$600.00
	04/11/2019	0.50	\$100.00	\$50.00
	04/12/2019	0.50	\$100.00	\$50.00
			----- 18.00	

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 Federal ID 38-1802386

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

Invoice Date : April 26, 2019  
 Invoice # : M2014455  
 Project # : MCW200501T

Phase: 100 -- Project Management  
 Task: 1A2 -- Project Management Support

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
Professional Engineer IV	03/29/2019	0.25	\$190.00	\$47.50
		-----		-----
		0.25		\$47.50
<b>Total Rate Schedule Labor</b>				<b>\$1,847.50</b>
Total Task : 1A2 -- Project Management Support			Labor :	\$1,847.50
			Expense :	\$0.00

Task: 1EXP -- Project Management Expenses

**Unit Pricing Expenses**

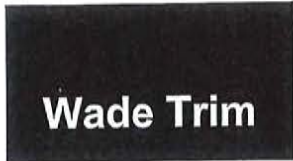
Vendor / Employee Name	Doc Nbr	Date	Units	Rate	Amount
Employee Mileage	37B7C3	04/10/2019	60.00	\$0.640	\$38.40
	9796B4	04/03/2019	91.00	\$0.640	\$58.24
					-----
					96.64
<b>Total Unit Pricing</b>					<b>\$96.64</b>
Total Task : 1EXP -- Project Management Expenses			Labor :	\$0.00	
			Expense :	\$96.64	

Total Phase : 100 -- Project Management	Labor :	\$7,855.00
	Expense :	\$96.64

Phase: 200 -- Preliminary Design  
 Task: 2A1 -- Rvw Existing Documents

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
Engineer IV	04/03/2019	0.50	\$150.00	\$75.00
		-----		-----
		0.50		\$75.00
Professional Engineer IV	04/17/2019	0.50	\$190.00	\$95.00



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 Federal ID 38-1802386

**INVOICE**

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

Invoice Date : April 26, 2019  
 Invoice # : M2014455  
 Project # : MCW200501T

Phase: 200 -- Preliminary Design  
 Task: 2A1 -- Rvw Existing Documents

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
Professional Engineer IV	04/18/2019	2.50	\$190.00	\$475.00
		----- 3.00		----- \$570.00
Project Aide II	04/08/2019	1.00	\$95.00	\$95.00
		----- 1.00		----- \$95.00
Project Specialist II	03/26/2019	2.00	\$150.00	\$300.00
	03/27/2019	8.00	\$150.00	\$1,200.00
	03/28/2019	6.50	\$150.00	\$975.00
	03/29/2019	4.00	\$150.00	\$600.00
	04/02/2019	2.00	\$150.00	\$300.00
	04/03/2019	2.00	\$150.00	\$300.00
	04/05/2019	2.00	\$150.00	\$300.00
	04/08/2019	3.00	\$150.00	\$450.00
	04/10/2019	3.50	\$150.00	\$525.00
	04/11/2019	8.00	\$150.00	\$1,200.00
	04/12/2019	8.00	\$150.00	\$1,200.00
	04/15/2019	7.50	\$150.00	\$1,125.00
	04/16/2019	7.25	\$150.00	\$1,087.50
	04/17/2019	8.00	\$150.00	\$1,200.00
04/18/2019	7.00	\$150.00	\$1,050.00	
04/19/2019	8.00	\$150.00	\$1,200.00	
		----- 86.75		----- \$13,012.50
Senior Professional	03/25/2019	1.00	\$215.00	\$215.00
	03/26/2019	1.00	\$215.00	\$215.00
	03/27/2019	1.00	\$215.00	\$215.00
	03/28/2019	2.00	\$215.00	\$430.00
	03/29/2019	2.00	\$215.00	\$430.00
	04/09/2019	1.00	\$215.00	\$215.00
	04/11/2019	1.00	\$215.00	\$215.00
	04/17/2019	1.00	\$215.00	\$215.00
	04/18/2019	1.00	\$215.00	\$215.00
	04/19/2019	2.00	\$215.00	\$430.00
		----- 13.00		----- \$2,795.00



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## Wade Trim

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 Federal ID 38-1802386

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

Invoice Date : April 26, 2019  
 Invoice # : M2014455  
 Project # : MCW200501T

Phase: 200 -- Preliminary Design  
 Task: 2A1 -- Rvw Existing Documents

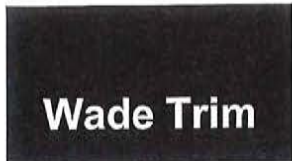
**Total Rate Schedule Labor** **\$16,547.50**

Total Task : 2A1 -- Rvw Existing Documents Labor : \$16,547.50  
Expense : \$0.00

Task: 2A2 -- Survey

### Rate Schedule Labor

Class Name	Date	Hours	Rate	Amount
<b>CADD Technician IV</b>				
	04/10/2019	1.00	\$100.00	\$100.00
	04/12/2019	6.00	\$100.00	\$600.00
	04/15/2019	6.50	\$100.00	\$650.00
	04/17/2019	7.50	\$100.00	\$750.00
		-----		-----
		21.00		\$2,100.00
<b>Construction Technician VI</b>				
	03/28/2019	2.00	\$140.00	\$280.00
		-----		-----
		2.00		\$280.00
<b>Professional Surveyor III</b>				
	04/01/2019	0.50	\$140.00	\$70.00
	04/02/2019	1.00	\$140.00	\$140.00
	04/08/2019	1.00	\$140.00	\$140.00
	04/10/2019	1.00	\$140.00	\$140.00
	04/11/2019	1.00	\$140.00	\$140.00
	04/17/2019	0.50	\$140.00	\$70.00
	04/19/2019	1.00	\$140.00	\$140.00
		-----		-----
		6.00		\$840.00
<b>Senior Professional</b>				
	03/27/2019	1.00	\$215.00	\$215.00
	04/16/2019	1.00	\$215.00	\$215.00
		-----		-----
		2.00		\$430.00
<b>Survey Technician IV</b>				
	04/15/2019	9.00	\$95.00	\$855.00
		-----		-----
		9.00		\$855.00
<b>Total Rate Schedule Labor</b>				<b>\$4,505.00</b>



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 Federal ID 38-1802386

**INVOICE**

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

Invoice Date : April 26, 2019  
 Invoice # : M2014455  
 Project # : MCW200501T

**Phase: 200 -- Preliminary Design**

Total Task : 2A2 -- Survey  
 Labor : \$4,505.00  
 Expense : \$0.00

**Task: 2A4 -- Meetings**

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
<b>Engineer IV</b>				
	04/08/2019	0.50	\$150.00	\$75.00
	04/16/2019	1.00	\$150.00	\$150.00
	04/17/2019	0.50	\$150.00	\$75.00
		-----		-----
		2.00		\$300.00
<b>Professional LA III</b>				
	04/18/2019	1.25	\$150.00	\$187.50
		-----		-----
		1.25		\$187.50
<b>Senior Professional</b>				
	03/25/2019	1.00	\$215.00	\$215.00
	03/27/2019	1.00	\$215.00	\$215.00
	04/10/2019	3.50	\$215.00	\$752.50
	04/16/2019	2.00	\$215.00	\$430.00
	04/18/2019	2.00	\$215.00	\$430.00
	04/15/2019	2.00	\$215.00	\$430.00
		-----		-----
		11.50		\$2,472.50
<b>Total Rate Schedule Labor</b>				<b>\$2,960.00</b>

Total Task : 2A4 -- Meetings  
 Labor : \$2,960.00  
 Expense : \$0.00

**Task: 2B1 -- AIt Analysis & Development**

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
<b>Senior Professional</b>				
	04/08/2019	1.00	\$215.00	\$215.00
	04/09/2019	1.00	\$215.00	\$215.00
	04/12/2019	1.00	\$215.00	\$215.00
		-----		-----
		3.00		\$645.00
<b>Total Rate Schedule Labor</b>				<b>\$645.00</b>

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 Federal ID 38-1802386

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

Invoice Date : April 26, 2019  
 Invoice # : M2014455  
 Project # : MCW200501T

**Phase: 200 -- Preliminary Design**

Total Task : 2B1 -- Alt Analysis & Development      Labor : \$645.00  
 Expense : \$0.00

**Task: 2D6 -- 30% Civil / Site**

**Rate Schedule Labor**

Class Name	Date	Hours	Rate	Amount
Senior Professional	04/18/2019	1.00	\$215.00	\$215.00
		----- 1.00		----- \$215.00

**Total Rate Schedule Labor** **\$215.00**

Total Task : 2D6 -- 30% Civil / Site      Labor : \$215.00  
 Expense : \$0.00

Total Phase : 200 -- Preliminary Design	Labor :	\$24,872.50
	Expense :	\$0.00

**Phase: 600 -- Subcontractors**

**Task: 6A1 -- Applied Science**

**Regular Expenses**

Vendor Name	Doc Nbr	Date	Amount
Subconsultants	20015286	04/24/2019	\$1,275.75
			----- \$1,275.75

**Total Regular Expenses** **\$1,275.75**

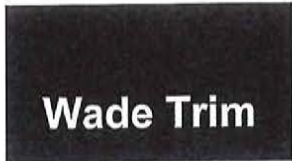
Total Task : 6A1 -- Applied Science      Labor : \$0.00  
 Expense : \$1,275.75

**Task: 6A2 -- NTH Consultants**

**Regular Expenses**

Vendor Name	Doc Nbr	Date	Amount
Subconsultants	20015287	04/24/2019	\$11,474.84
			----- \$11,474.84

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Federal ID 38-1802386

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

Invoice Date : April 26, 2019  
Invoice # : M2014455  
Project # : MCW200501T

Phase: 600 -- Subcontractors

Task: 6A2 -- NTH Consultants

*Total Regular Expenses*

**\$11,474.84**

Total Task : 6A2 -- NTH Consultants

Labor : \$0.00  
Expense : \$11,474.84

Total Phase :	600 -- Subcontractors	Labor :	\$0.00
		Expense :	\$12,750.59

Chapaton RTB Canal Upgrade:

Project management and coordination of design activities and team meetings. Updated memorandum summarizing historical document review. Site visit on April 9, 2019 to review type and condition of existing sheeting. Attended meeting with Shore Club on April 10, 2019. Attended initial coordination meeting with MCPWO, MDEQ and USACOE on April 10, 2019. Drill Test Boring Nos. 1 to 3 on April 9, 2019 and April 10, 2019 and performed laboratory testing on selected samples. Review of historical data regarding Shore Club parking garage foundations and position relative to 8 1/2 Mile box culvert. Coordination of Test Boring Nos. 4 and 5 on Shore Club property. Conducted design team BIM kick off meeting on April 23, 2019 and finalized BIM project execution plan. Performed survey work and utilized data to develop base site plan drawing. Digitized historical photos related to the exiting canal gate structure. Collection and review of hydraulic data for analysis. Collection of manufacturer's data on control gate alternatives.





# Applied Science, Inc.

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

April 24, 2019

Invoice #2 (ASI Inv. #7331)

John Arvaj, P.E.  
Wade Trim  
25251 Northline Road  
Taylor, Michigan 48180

RE: RTB Canal Upgrades  
(ASI Job No. 1831)

Services provided from March 24, 2019 through April 20, 2019..

<u>Employee</u>	<u>Classification</u>	<u>Direct Labor Hrs.</u>	<u>Hourly Rate</u>	<u>Total</u>
John Michalski	Sr. Project Manager	4.0	\$ 155.00	\$ 620.00
Erika Campbell	Staff Engineer	7.0	\$ 85.00	\$ 595.00
Total this invoice:				\$ 1,215.00
Previous Amount Invoiced:				\$ 1,627.50
Total Invoiced To-Date:				\$ 2,842.50
Not To Exceed:				\$ 68,005.00
Amount Remaining:				\$ 65,162.50
<b>Total Amount Due This Invoice:</b>				<b>\$ 1,215.00</b>



### Time by Project

3/24/2019 (Sun) - 4/20/2019 (Sat)

(Single Project)

	<u>Hours</u>	<u>Date</u>	<u>Task</u>	<u>Type</u>	<u>Sun</u>	<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Approver</u>	<u>Status</u>	<u>Description</u>
Macomb Co. Public Works:1831 Chapaton Canal & Gate	7	04/14/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	1	1	5	0	0	CEC		04/22/19
Campbell, Erika	3	04/07/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	0	3	0	0	0	CEC		04/22/19
Michaliski, John R.	1	04/14/19	1831 Chapaton Canal & Gate:1-001 Proposal	Reg	0	0	1	0	0	0	0	CEC		04/22/19

Subtotal

Subtotal

Total

4

11

11



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

**Invoice # :** 618241  
**Project :** 62190022  
**Invoice Group :** \*\*  
**Invoice Date :** 04/24/2019

**Attention: Accounts Payable**

**For Professional Services Rendered through: 4/19/2019**

**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	740.00	2,514.97	25,635.03
20 -- Preliminary Design	99,060.00	2,515.75	8,413.45	88,130.80
30 -- Final Design	91,200.00	0.00	0.00	91,200.00
40 -- Bidding Assistance	9,360.00	0.00	0.00	9,360.00
<b>Project Total</b>	<b>228,510.00</b>	<b>3,255.75</b>	<b>10,928.42</b>	<b>214,325.83</b>

**Amount Due This Invoice :** \$ 10,928.42

**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 # : 618241

Phase : 10 -- Project Management

<u>Rate Schedule Labor</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>Principal Engineer</b>				
McInerney, Judith W.	04/05/2019	1.50	165.00	247.50
<b>Senior Officer</b>				
Roarty, Charles	03/25/2019	1.50	215.00	322.50
	04/03/2019	3.50	215.00	752.50
	04/12/2019	1.00	215.00	215.00
	04/13/2019	0.50	215.00	107.50
	04/16/2019	1.00	215.00	215.00
	04/18/2019	1.00	215.00	215.00
<b>Sr Principal Engineer</b>				
Roarty, Charles	04/01/2019	0.50	185.00	92.50
	04/04/2019	1.00	185.00	185.00
<b>Word Processor</b>				
McKiever, Marguerite A.	03/28/2019	0.50	65.00	32.50
	04/12/2019	0.25	65.00	16.25
Comerford, Dawn E.	04/15/2019	1.00	65.00	65.00
<b>Rate Schedule Labor</b>		<b>13.25</b>		<b>2,466.25</b>

<u>Unit Pricing Expenses</u>	<u>Units</u>	<u>Rate</u>	<u>Amount</u>
<b>Per Unit Expenses</b>			
REIMBURSED MILEAGE	84.00 MILE(S) @	0.58	48.72
<b>Unit Pricing</b>			<b>48.72</b>

Total Phase : 10 -- Project Management      Labor : 2,466.25  
Expense : 48.72

Phase : 20 -- Preliminary Design

<u>Rate Schedule Labor</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
<b>Cadd Operator</b>				
Bryan, Stephen H.	03/25/2019	1.50 Overtime	85.00	127.50
	03/25/2019	5.25	85.00	446.25
	03/27/2019	0.50	85.00	42.50
	03/28/2019	0.50 Overtime	85.00	42.50
	03/28/2019	0.25	85.00	21.25
	04/10/2019	0.50	85.00	42.50
	04/15/2019	0.25	85.00	21.25
<b>Project Professional</b>				
Ventura, Erik	04/10/2019	2.00	120.00	240.00

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 # : 618241

Phase : 20 -- Preliminary Design

Rate Schedule Labor	Date	Hours	Rate	Amount
<b>Project Professional</b>				
	04/11/2019	2.25	120.00	270.00
	04/12/2019	0.25	120.00	30.00
	04/16/2019	2.00	120.00	240.00
	04/18/2019	1.50	120.00	180.00
<b>Sr Principal Engineer</b>				
Roarty, Charles	03/25/2019	1.50	185.00	277.50
	03/27/2019	1.50	185.00	277.50
	03/28/2019	2.50	185.00	462.50
	04/03/2019	1.50	185.00	277.50
	04/05/2019	1.50	185.00	277.50
	04/06/2019	0.50	185.00	92.50
	04/08/2019	1.50	185.00	277.50
	04/09/2019	0.50	185.00	92.50
	04/09/2019	4.00	185.00	740.00
	04/10/2019	2.00	185.00	370.00
	04/10/2019	4.00	185.00	740.00
	04/15/2019	0.50	185.00	92.50
	04/16/2019	1.50	185.00	277.50
<b>Sr Staff Professional</b>				
Waring, Kurt D.	04/08/2019	1.00	100.00	100.00
	04/09/2019	10.00	100.00	1,000.00
	04/10/2019	8.00	100.00	800.00
	04/19/2019	0.50	100.00	50.00
<b>Staff Professional</b>				
Verge, Donovan	04/05/2019	2.00	95.00	190.00
<b>Word Processor</b>				
McKiever, Marguerite A.	04/11/2019	1.00	65.00	65.00
<b>Rate Schedule Labor</b>		<b>62.25</b>		<b>8,163.75</b>

Unit Pricing Expenses	Units	Rate	Amount
<b>Per Unit Expenses</b>			
REIMBURSED MILEAGE	40.00 MILE(S) @	0.58	23.20
CADD Supplies	8.75 HOUR(S) @	6.00	52.50
COMPANY VEHICLE MILEAGE	174.00 MILE(S) @	1.00	174.00
<b>Unit Pricing</b>			<b>249.70</b>

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NTH Consultants, Ltd.

Infrastructure Engineering and Environmental Services

INVOICE

Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades	Invoice # : 618241
Total Phase : 20 -- Preliminary Design	Labor : 8,163.75
	Expense : 249.70
<b>Total Project : 62190022 -- MCO - Chapaton RTB Canal Upgrades</b>	<b>10,928.42</b>

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

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

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

Budget to Actual  
8.5 Mile Relief  
As of April 30, 2019 = 58%

DESCRIPTION	2019 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
<b>REVENUE ACCOUNTS</b>					
Interest Earned	26,000		57,347	(31,347)	220.6%
Other Revenue	1,500		26,913	(25,413)	1794.2%
State Grant	-		3,000,000	(3,000,000)	100.0%
8.5 O&M/Charge Required Revenue	3,898,266		3,898,266	-	100.0%
PY Revenue-Fund Balance	1,946,000			1,946,000	0.0%
Rental Fee	15,360		8,962	6,398	58.3%
<b>Total Revenue Accounts</b>	<b>5,887,126</b>	<b>-</b>	<b>6,991,488</b>	<b>(1,104,362)</b>	<b>118.8%</b>
<b>EXPENSE ACCOUNTS</b>					
Application/Permit Fee	3,000		3,000	-	100.0%
Dues, Training, Conf, Subs.	5,750		7,170	(1,420)	124.7%
<b>Engineering</b>					
Chapaton East Disinfection System Improvement	50,000		17,937	32,063	35.9%
Disinfection Systems Improvement Study	120,000		74,279	45,721	61.9%
RTB/PS Ventilation Design	120,000			120,000	0.0%
Design of Improvements	50,000			50,000	0.0%
As Needed Engineering	75,000		17,219	57,781	23.0%
Chapaton Improvements-Office Space	250,000			250,000	0.0%
Phase 1 TRC Basin Equipment	100,000		990	99,010	1.0%
9 Mile & 8 1/2 Mile Rehab	100,000			100,000	0.0%
Basin Structural Integrity Study	60,000			60,000	0.0%
Basin Expansion Design	1,000,000			1,000,000	0.0%
In-System Storage Design(Gates on 8.5 Tunnel)	500,000			500,000	0.0%
<b>New Equipment</b>					
Office Supplies	750		500	250	66.7%
Operating Supplies	82,750		47,654	35,096	57.6%
Other Professional Svcs	47,920		32,305	15,615	67.4%
Personnel Services	875,405		439,166	436,239	50.2%
Repair & Maintenance	100,615		90,309	10,306	89.8%
Switch gear	45,000			45,000	0.0%
Painting interior and garage facade	20,000			20,000	0.0%
Instrumentation all buildings	30,000			30,000	0.0%
Canal seawall sheeting	5,000			5,000	0.0%
Driveway grate	12,000			12,000	0.0%
Pumping and screening improvements	1,250,000		61,854	1,188,146	4.9%
CHA-EB Chem Flow Meter - Basin Gates (Pumps 4-5)	10,000			10,000	0.0%
Security Fence Structures Around Gate Actuators	60,000			60,000	0.0%
Electrical Upgrade Program	10,000			10,000	0.0%
Pump Station Exterior Wall Upgrades-Basin Kneewall	4,000			4,000	0.0%
9 Mile Dewatering Gate	5,000			5,000	0.0%
SRF Replacement Reserve	259,215			259,215	0.0%
<b>Scada System</b>					
Utilities	190,073		165,377	24,696	87.0%
Utilities	284,148		65,166	218,982	22.9%
<b>Total Expense Accounts</b>	<b>5,887,126</b>	<b>-</b>	<b>1,070,674</b>	<b>4,816,452</b>	<b>18.2%</b>

	O&M Balance 9/30/2018	O&M	Total 4/30/2019
Cash - Operating	4,445,246	5,920,814	10,366,060
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		6,991,488	6,991,488
Expenditures		1,070,674	1,070,674
			0
Equity*	4,445,246		10,366,060

**Detail of 2018 Equity\***

5 year maintenance of switchgear	38,000	Instrumentation all buildings	30,000
9 Mile Dewatering Gate	5,000	Oufall Gate Reserve	7,000
Canal seawall sheeting	5,000	Painting interior and garage facade	20,000
CHA-EB Chem Flow Meter - Basin Gates (Pumps 4-5)	10,000	Pump Station Exterior-Basin Kneewall	4,000
Chapaton East disinfection system improvement	50,000	Pumping and screening improvements	1,250,000
Design of Improvements	50,000	RTB/PS Ventilation Design	60,000
Disinfection Systems Improvement Study	120,000	Sampling Pumps	2,500
Driveway grate	12,000	Scada Reserve	80,000
Electrical Upgrade Program	10,000	Security Fence Structures -Gate Act	60,000
Emergency Reserve	818,956	Spare Rain Gauge	2,500
Flow Meter	150,000	SRF Replacement Reserve	1,555,290
HVAC Design	60,000	Switch gear(Label and maintenance)	45,000