

MACOMB INTERCEPTOR DRAIN
MARCH 13, 2017
10:00 A.M.
AGENDA

Page No.

1. Call of meeting to order and roll call
2. Approval of Agenda for March 13, 2017
3. Approval of Minutes for February 13, 2017
4. Public participation
5. 15 Mile Sinkhole Update
Lou Urban, Anderson, Eckstein & Westrick, Inc.
Evans Bantios, Macomb County Public Works
6. Financing Plan Update 1
Brian Baker, Macomb County Public Works

State Assistance Update
Karen Czernel, Macomb County Public Works
7. Motion: Approve the following Agreements/Proposals/Resolutions:
 - a. Foster-Swift Bond Counsel Engagement – John Kamins 3
 - b. Foster-Swift Bond Authorizing Resolution – John Kamins 8
 - c. Offer to purchase condemned homes and property use agreements – Ben Aloia 47
 - d. Resolution 2017-1 – Revocation of agreement between Chapter 20 drain board and the Macomb County Wastewater Disposal District – Joe Viviano 98
 - e. Resolution 2017-2 – Revocation of Ric-Man emergency repair contract – Joe Viviano 100
 - f. Engineering Agreement with Hubbell, Roth & Clark, Inc. for services on the SRF Project Plan, Loan Application & MDEQ Grant Application – Evans Bantios 102
8. Motion: Approve the following Purchase Orders:
 - a. Pure Air Filtration Purchase Order – Evans Bantios 107
9. Motion: Approve Award of Bids subject to legal review:
 - a. 15 Mile Sinkhole Shaft and Repair – Evans Bantios 110

b.	RedZone Robotics, Inc. – \$1,498,573.70 for the MID Interceptor Condition Assessments – Romeo Arm, 15 Mile, Garfield and Lakeshore Interceptors funded by a SAW Grant – Evans Bantios	114
c.	Long-term by-pass bids with Mersino and Great Lakes – Evans Bantios	118
10.	Motion: Receive and File:	
	Fifth Third Bank – transition from First Merit Bank to Fifth Third Bank allows for unlimited transactions/disbursements, earnings of 0.45%, interest on net balances of 0.30%, annual increase of \$10,000-\$12,000 in net interest earnings, single-sign on access to all bank information – Bruce Manning	130
11.	Consideration of approval of invoices (see attached)	131
12.	Closed Session – Confidential Attorney/Client Communication, Litigation and Legal Strategy/Advice	
13.	Old Business	
14.	New Business	
15.	Adjourn	

Next Regular Meeting:

April 10, 2017 at the Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township, Michigan 48036 at 10:00 a.m., Eastern Standard Time. The April 10, 2017 meeting Board members will be Candice Miller, Bryan Santo and Robert Mijac.

An adjourned meeting of the Intra-County Drainage Board for the **MACOMB INTERCEPTOR DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on February 13, 2017, at 10:00 A.M.

PRESENT: Candice S. Miller, Chair
Robert Smith, Member
Veronica Klinefelt, Member

ALSO PRESENT: Brian Baker, Chief Deputy, Karen Czernel, Deputy, Keith Graboske, Chief Engineer, Dan Heaton, Public Relations Manager, Anthony Forlini, Operations Manager, Evans Bantios, Engineer II, Bruce Manning, Acting Financial Manager, Barbara Delecke, Administrative Services, Macomb County Public Works; Mary Bednar, Director of Public Services, Clinton Township; Ron Trombly, Supervisor, Cam Trombly, DPW Director, Lenox Township; Jason Castol, P.E., Sterling Heights; Sermed Saif, Tri-County Engineering; Benjamin Aloia, Annemarie Lepore, Aloia & Associates; Don Gardner, Macomb Daily; Christina Hall, Detroit Free Press;

The meeting was called to order by the Chair, Candice Miller. A motion was made by Ms. Klinefelt, supported by Mr. Smith to approve the Agenda, deleting Agenda Item No. 11. The meeting was opened to public participation, then closed, there being no comments from the public.

Work continues on the 15 Mile Road Interceptor collapse. The long-term by-pass system is 60 to 70 percent complete. When this part of the project is completed, the flow from the 11 foot interceptor will be diverted through a temporary by-pass pipe. The pump had to be replaced at site 110. Flow was held at the Clintondale Pump Station which averted a discharge. Six contractors are qualified to bid on the repair project. Bids are due March 3, 2017.

Mr. Baker explained the financing plan for the interceptor repair. The short-term financing includes borrowing up to \$20 million from Macomb County's surplus funds. Work is being done to acquire a long-term bond for the repair. The Macomb County Public Works Office is looking into refinancing some of the existing bonds, which will save the 11 sewer district communities money. Meetings have been held with the Macomb County Public Works Office, Macomb County Emergency Management, the Macomb County Department of Roads, the MDEQ and the Governor's office to help finance the repair through grants and loans. A Strategic Water Quality Initiative Grant has been applied for, as well as State Revolving Funds. The federal government is exploring avenues to help finance the project. Macomb County Emergency Management has received appropriations for reimbursement to Clinton Township, City of Fraser and Macomb County.

Engagement Agreements have been signed with Viviano Law and Aloia Associates to represent the Macomb County Public Works Office on legal matters. Aloia Associates will be dealing with resident claims, condemnation of the homes and acquisition of easements. Viviano Law and Aloia Associates will be dealing with general issues as they relate to the Macomb Interceptor Drain. Viviano Law will handle the contractors and the bidding process.

A motion was made by Mr. Smith, supported by Ms. Klinefelt to accept the Engagement Agreement from Viviano Law dated January 18, 2017.

Ayes: Smith, Klinefelt, Miller
Nays: None

Motion approved.

A motion was made by Mr. Smith, supported by Ms. Klinefelt to accept the Engagement Agreement from Aloia & Associates dated January 1, 2017.

Ayes: Smith, Klinefelt, Miller
Nays: None

Motion approved.

A motion was made by Mr. Smith, supported by Ms. Klinefelt to accept the Engagement agreement from Aloia & Associates dated January 26, 2017.

Ayes: Smith, Klinefelt, Miller
Nays: None

Motion approved.

A required disclosure has been provided by Citi (the underwriter for the bonds). Citi was recommended by Bendzinski & Company, Macomb County's financial advisor. This is for the tentative April Bond Issue, which includes approximately \$83 million in refinancing and approximately \$30 to \$40 million in new bonds for the 15 Mile Road Interceptor collapse. The co-underwriter will be Fifth/Third Bank.

A motion was made by Ms. Klinefelt, supported by Mr. Smith to accept the Agreement dated February 3, 2017 with Citi.

Ayes: Klinefelt, Smith, Miller
Nays: None

Motion approved.

Foster-Swift will be retained as bond counsel. A reimbursement resolution has to be approved within 60 days of paying invoices so that the invoices are eligible to be reimbursed by the bonds. Ms. Klinefelt asked that the top portion of the resolution be eliminated, which includes the heading Minutes and striking the last paragraph beginning with "There being no further business . . ."

A motion was made by Ms. Klinefelt, supported Mr. Smith to approve the Reimbursement Resolution from Foster-Swift with amendments.

Ayes: Klinefelt, Smith, Miller

Nays: None

Motion approved.

The Macomb County Board of Commissioners approved the Loan Agreement. This allows the Macomb Interceptor Drain Drainage District to borrow up to \$20 million from Macomb County to pay initial sinkhole costs until long-term bonds are issued in April. This is a very low interest rate loan, which can be used up to 120 days.

A motion was made by Ms. Klinefelt, supported by Mr. Smith to approve the short-term borrowing of funds from Macomb County.

Ayes: Klinefelt, Smith, Miller

Nays: None

Motion approved.

The purchase orders have already gone out to bid in an effort to keep the repair project moving forward so that when the contract is awarded work can begin immediately.

The purchase order from Michigan CAT in the amount of \$313,800.00 is a ten month lease for rental of generators for the long-term by-pass pumping station and the dewatering wells at the sinkhole site.

A motion was made by Ms. Klinefelt, supported by Mr. Smith to approve Purchase Order No. 2-3-207 in the amount of \$313,800.00 with Michigan CAT.

Ayes: Klinefelt, Smith, Miller

Nays: None

Motion approved.

The purchase order from Conklin Steel in the amount of \$702,466.81 is for the purchase of steel for the entry shaft. It takes approximately 6 to 8 weeks to manufacture the steel. This will eliminate any delay in starting the project once a contract has been awarded. Pre-ordering the steel, saved approximately 10 to 15 percent of the cost.

A motion was by Mr. Smith, supported by Ms. Klinefelt to approve Purchase Order No. 2-3-208 in the amount of \$702,466.81 with Conklin Steel.

Ayes: Smith, Klinefelt, Miller
Nays: None

Motion approved.

The Chair presented the invoices to the board for review and approval.

Three invoices were held pending further review.

<u>Kirk, Huth, Lange & Badalamenti, PLC</u> Invoice #80026 – Driggers v. MID Legal Services – 12/20/16 – 12/28/16	\$ 1,000.00
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<u>Kirk, Huth, Lange & Badalamenti, PLC</u> Invoice #80033 – 2016 Sinkhole Legal Services – 12/27/16 – 1/5/17	\$22,789.54
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<u>Macomb County</u> Invoice #AR161117 – Personnel & Operating Reimbursement – 4 th Quarter	\$10,746.87
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Motion was made by Ms. Klinefelt, supported by Mr. Smith to approve the remaining invoices as presented.

Ayes: Klinefelt, Smith, Miller
Nays: None

Motion approved.

Aloia & Associates are reviewing all reimbursement requests from residents affected by the sinkhole. An appraiser has been hired for the three condemned homes. Once the appraisals are complete, good faith offers will be made to the residents to acquire their homes through the Michigan Uniform Condemnation Procedures Act. The initial costs will involve resident reimbursements for purchase of lodging, fuel, food and miscellaneous supplies not to exceed \$10,000 per home.

A motion was made by Ms. Klinefelt, supported by Mr. Smith to approve the Resolution as written with the addition of \$10,000 per claim related to the Macomb Interceptor Drain 15 Mile Interceptor collapse.

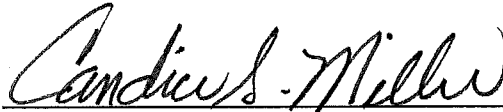
Ayes: Klinefelt, Smith, Miller
Nays: None

Motion approved.

Approximately \$130,000 has been expended to date on temporary by-pass pumping, engineering and legal fees.

The next meeting will be held on March 13, 2017, 10:00 a.m. at the Macomb County Public Works Office.

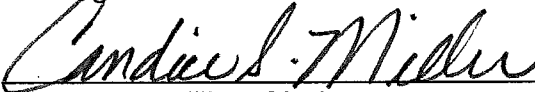
The meeting was adjourned on a motion by Mr. Smith, seconded by Ms. Klinefelt, and unanimously approved.



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 taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on February 13, 2017, 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: 2/15/17

8608.bd

Preliminary Financing Schedule (As of March 8, 2017)



Macomb Interceptor Drain Drainage District
 County of Macomb, State of Michigan
 Drainage District Drain Bonds and Refunding Bonds, Series 2017

March 2017							April 2017							May 2017								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
			1	2	3	4						1	1	2	3	4	5	6				
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13		
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20		
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27		
26	27	28	29	30	31	23	24	25	26	27	28	29	28	29	30	31						
													30									

Parties:

I	Issuer:	MID Drainage District	Co	Co-Manager	Fifth Third
BC	Bond Counsel:	Foster Swift	MA	Municipal Advisor:	Bendzinski
UC	Underwriter's Counsel:	Dickinson Wright	T	Trustee:	Huntington National Bank
C	Senior Manager:	Citi			

Dates	Transaction Item	Responsibility
Week of February 13 Monday, February 13	• Organization call to discuss schedule, assignments, structuring/sizing	• All
Week of February 20 Friday, February 24	• Circulate initial draft of local Full Faith & Credit Resolution (including CDU for 3 of the 11 local units)	• BC
Week of February 27 Monday, February 27 Tuesday, February 28 Friday, March 03	• Circulate initial draft of County's Full Faith & Credit / CDU Resolution • Comments to BC on initial draft of local Full Faith & Credit Resolution (including CDU for 3 local units) • Circulate initial draft of Issuer's Bond Authorizing Resolution • Comments to BC on initial drafts of Issuer's Bond Authorizing Resolution and County's Full Faith & Credit / CDU Resolution • Working Group Conference Call @ 11:45am	• BC • All • BC • All • All
Week of March 6 Tuesday, March 07 Wednesday, March 08 Thursday, March 09	• Circulate initial draft of Preliminary Official Statement (POS) • Bids received on construction • Packet goes to MIDDD Board	• UC, MA • I • I
Week of March 13 Monday, March 13 Tuesday, March 14 Wednesday, March 15 Thursday, March 16 Friday, March 17	• MIDD Drain Board Meeting • Circulate second draft of POS • Distribute first draft of rating book • Conference Call to Discuss POS and Transaction Timing • Macomb County Finance Meeting @ 3:00pm • County Board meeting to approve Resolution • Distribute documents to rating agencies	• I, BC • UC, MA • C • All • I, BC • I • MA, C
Week of March 20 Tuesday, March 21 Wednesday, March 22	• City of Sterling Heights Council Meeting @ 7:30pm • Shelby Township Board of Trustees Meeting @ 7:00pm • Township of Macomb Board of Trustees Meeting @ 7:00pm • Distribute draft of investor presentation	• I, BC • I, BC • I, BC • C
Week of March 27 Monday, March 27	• Charter Township of Clinton Board Meeting @ 6:30pm • Rating agency meetings with Moody's and S&P	• I, BC • I, MA, C
Week of April 3 Monday, April 03 Tuesday, April 04	• Drainage District Approval received for Macomb Interceptor Financing (Date TBD) • Distribute Draft of BPA	• MA • UC
Week of April 10 Wednesday, April 12 Thursday, April 13	• Distribute Proposed Final POS • Conference Call to Sign off on POS	• UC, MA • All
Week of April 17 Tuesday, April 18 Wednesday, April 19	• Due Diligence Call • Receive Ratings • Post POS	• All • I • UC, MA
Week of April 24 Wednesday, April 26 Thursday, April 27	• Pre-Pricing Call • Pricing of Bonds and signing of BPA	• I, MA, C • All
Week of May 8 Tuesday, May 09	• Pre-Closing	• All

Preliminary Financing Schedule (As of March 8, 2017)



Macomb Interceptor Drain Drainage District
 County of Macomb, State of Michigan
 Drainage District Drain Bonds and Refunding Bonds, Series 2017

March 2017							April 2017							May 2017						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1		1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			

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Parties:

I	Issuer:	MID Drainage District	Co	Co-Manager	Fifth Third
BC	Bond Counsel:	Foster Swift	MA	Municipal Advisor:	Bendzinski
UC	Underwriter's Counsel:	Dickinson Wright	T	Trustee:	Huntington National Bank
C	Senior Manager:	Citi			

Dates	Transaction Item	Responsibility
Wednesday, May 10	• Closing	• All

FOSTER SWIFT

FOSTER SWIFT COLLINS & SMITH PC || ATTORNEYS

Lansing | Southfield | Grand Rapids | Detroit | Holland | St. Joseph

Lansing
313 S. Washington Square
Lansing MI 48933

Detroit
333 W. Fort Street – Suite 1400
Detroit MI 48226

Walter S. Foster
1878-1961
Richard B. Foster
1908-1996
Theodore W. Swift
1928-2000
John L. Collins
1926-2001

Webb A. Smith
Allan J. Claypool
Gary J. McRay
Stephen I. Jurmu
Scott A. Storey
Charles A. Janssen
Charles E. Barbieri
James B. Jensen, Jr.
Scott L. Mandel

Michael D. Sanders
Brent A. Titus
Stephen J. Lowney
Jean G. Shtokal
Brian G. Goodenough
Matt G. Hrebec
Melissa J. Jackson
Nancy L. Kahn
Deanna Swisher
Thomas R. Meagher
Doug A. Mielock
Scott A. Chernich
Paul J. Millenbach
Dirk H. Beckwith
Brian J. Renaud
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Lynwood P. VandenBosch
Lawrence Korolewicz

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Southfield MI 48034

Holland
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Holland MI 49423

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Richard L. Hillman
Steven L. Owen
John P. Nicolucci
Michael D. Homier
David M. Liok
Scott H. Hogan
Richard C. Kraus
Benjamin J. Price
Frank T. Mamut
Michael R. Blum
Jonathan J. David
Frank H. Reynolds
Pamela C. Dausman
Andrew C. Vredenburg
John M. Kamins
Jack A. Siebers

Julie I. Fershtman
Todd W. Hoppe
Jennifer B. Van Regenmortel
Thomas R. TerMaat
Frederick D. Dilley
Alexander A. Ayar
David R. Russell
Zachary W. Behler
Joshua K. Richardson
Joel C. Farrar
Laura J. Genovieh
Liza C. Moore
Karl W. Butterer, Jr.
Lisa J. Hamanach
Mindi M. Johnson
Ray H. Littleton, II
Frank J. DeFrancesco
Scott A. Dienes

Jack L. Van Coevering
Barbra Homier
Anna Gibson
Patricia Scott
Nicholas Oertel
Lauren Dunn
Alicia Birach
Adam Fadly
Glen A. Schmiede
Gilbert M. Frimet
Mark J. Cnlon
Paul D. Yared
Ryan E. Lamb
Stephen W. Smith
Richard A. Dietz
Michael J. Liddane
Clifford L. Hammond
Jonathan H. Schwartz

Grand Rapids
1700 E. Beltline NE – Suite 200
Grand Rapids MI 49525

St. Joseph
728 Pleasant Street – Suite 204
St. Joseph MI 49085

Lindsey B. Bosch
Joseph J. Viviano
John W. Mashni
Allison M. Collins
Leslie A. Dickinson
Julie L. Hamlet
Michael C. Zahrt
Taylor A. Gast
Rachel N. Giziacki
Tyler J. Olney
Mark J. DeLuca
Stefania Gismondi
Thomas K. Dillon
Robert A. Basterly
Katila L. Howard
Ryan S. Mills
David S. Nows

Writer's Direct Phone: 248.785.4727

Fax: 248.538.2090

Reply To: Southfield

E-Mail: JKamins@fosterswift.com

March 7, 2017

Mr. Brian Baker
Chief Deputy Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036

Re: Bond Counsel Services in connection with the issuance of
not to exceed \$240,000,000 Macomb Interceptor Drain Drainage District
Drain and Refunding Bonds, Series 2017A (Limited Tax General Obligation)

Dear Mr. Baker:

This engagement letter will advise the Macomb Interceptor Drain Drainage District ("**Issuer**") and the Drainage Board for the Issuer (together with the Issuer, "**Clients**" or "**you**") of our fee and will describe our services as Clients' bond counsel in connection with the authorization and issuance of the above-mentioned bonds ("**Bonds**"). We understand that the Bonds are being issued for the purposes of financing a portion of the costs of certain intra-county drain projects (collectively, "**Project**") and refunding outstanding prior bonds issued by the Issuer in 2010 ("**Prior Bonds**").

We further understand as follows. The Bonds will be issued in anticipation of, and will be primarily payable from, the collection of special assessments against the public corporations benefited by the Project and the projects financed by the refunded Prior Bonds. Macomb County is expected to pledge its limited tax full faith and credit as additional security for payment of the principal of and interest on the Bonds. The Bonds are expected to be sold by a negotiated sale through Citigroup Global Markets Inc. ("**Citi**") and additional underwriters. The determination of whether all, less than all or none of the Prior Bonds will be refunded from proceeds of the sale of the Bonds will depend on prevailing market conditions at the time of the signing of the Bond Purchase Agreement for the Bonds. We have been instructed to provide in the Drainage Board's bond authorizing resolution for the authorized issuance of up to \$150 million principal amount of Bonds in regard to the Project and up to

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\$90 million principal amount of Bonds in regard to the refunding of Prior Bonds. It is expected that the closing of the issuance and delivery of the Bonds to the original purchasers of the Bonds will occur in May 2017. If after that closing the Issuer would issue additional bonds to finance completion of the Project, such future bond issues are not covered by this engagement letter and would be the subject of a different future engagement letter (if any) between you and us.

SCOPE OF ENGAGEMENT

In this regard, (i) since January 11, 2017 we have provided advice in connection with the Bonds, the Project and the refunding of Prior Bonds and we have participated in related meetings, conversations and correspondence with your representatives and registered municipal advisor and representatives of the County and Citi and their counsel, and (ii) we have performed and/or expect to perform the following duties:

(A) Reviewing and analyzing data and information provided by you, regarding the anticipated nature and costs of the Project, the documentation for and uses of the proceeds of the Prior Bonds, and the expenditures that you reasonably expect to make with respect to the Project, which under applicable federal tax law will be crucial factors in enabling tax-exempt bonds to be issued for this financing and refunding and in determining the maximum permissible principal amount of the Bonds.

(B) Preparing your declaration of official intent to reimburse certain Project costs paid by you prior to the issuance of the Bonds.

(C) Preparing resolutions for adoption by the Drainage Board to authorize the issuance and sale of the Bonds, by the County Board of Commissioners to pledge the limited tax full faith and credit of the County in regard to the Bonds, and by certain assessed public corporations in regard to their disclosure obligations under applicable federal securities laws.

(D) Subject to the completion of proceedings to our satisfaction, delivering our legal opinion ("**Approving Opinion**") regarding the validity and binding effect of the Bonds, the sources of payment and security for the Bonds, and the excludability of interest on the Bonds from gross income for federal and Michigan income tax purposes.

(E) Preparing and reviewing other documents necessary or appropriate for authorization, issuance and delivery of the Bonds; coordinating the authorization and execution of documents; and reviewing enabling legislation.

(F) Assisting the Issuer in seeking from other governmental authorities such approvals, permissions and exemptions as we determine are necessary or appropriate in connection with the authorization, issuance, sale and delivery of the Bonds, but we will not be responsible for any required

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"blue sky" filings. We understand that your other counsel will be responsible for obtaining all approvals and permits relating to the performance of the Project.

(G) Reviewing legal issues relating to the structure of the Bond issue.

(H) Assembling and distributing closing transcripts after the Closing.

(I) Participating only in the preparation of and reviewed those portions of the Preliminary Official Statement and final Official Statement for the Bonds under the captions entitled "THE BONDS," "PRIOR REDEMPTION OF BONDS," "PLAN OF REFUNDING," "THE PROJECT," "SOURCES AND USES OF FUNDS," "DETERMINATION BY MICHIGAN DEPARTMENT OF TREASURY," "TAX MATTERS," "LEGAL MATTERS," "BOND COUNSEL'S RESPONSIBILITY" and "CONTINUING DISCLOSURE" (except with regard to the Local Units' and the County's compliance with prior undertakings). We have not been retained to review any other portion of such Preliminary Official Statement or Official Statement for accuracy or completeness, and we will neither make inquiry of any of your officials or employees or any other person nor make any independent verification of such other portions thereof, and we will not express an opinion or view as to any such portions thereof.

Our Approving Opinion will be delivered by us on the date the Bonds are issued in exchange for their purchase price ("*Closing*").

Our Approving Opinion will be based on facts and law existing as of its date. In delivering our Approving Opinion, we will rely on the certified proceedings and other certifications of public officials and other persons furnished to us without undertaking to verify the same by independent investigation. During the course of this engagement, we will rely on you to provide us with complete and timely information on all developments pertaining to any aspect of the Project, the Bonds and the security for the Bonds. Among other things, we will require you to execute a certificate of facts with respect to the Project, the uses of Bond proceeds and the uses of Prior Bond proceeds.

Our duties in this engagement are limited to those expressly set forth above. Among other things, our duties do not include:

(1) Except as set forth in clause (I) above, (i) assisting in the preparation or review of an official statement or other disclosure document with respect to the Bonds, (ii) performing an independent investigation to determine the accuracy, completeness or sufficiency thereof or (iii) rendering advice that the official statement or other disclosure document does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made therein, in light of the circumstances under which they were made, not misleading.

(2) Preparing requests for tax rulings from the Internal Revenue Service.

(3) Preparing "blue sky" or investment surveys with respect to the Bonds.

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- (4) Drafting state constitutional or legislative amendments.
- (5) Pursuing test cases or other litigation.
- (6) Making an investigation or expressing any view as to the creditworthiness of the Issuer, the County or the Bonds.
- (7) Assisting in the preparation of, or providing an opinion on, a continuing disclosure undertaking pertaining to the Bonds or, after Closing, providing advice concerning any actions necessary to assure compliance with any continuing disclosure undertaking.
- (8) Representing you in Internal Revenue Service examinations or inquiries, or Securities and Exchange Commission investigations.
- (9) After Closing, providing continuing advice to you or any other party concerning any actions necessary to assure that interest paid on the Bonds will continue to be excludable from gross income for federal income tax purposes (*e.g.*, our engagement does not include rebate calculations for the Bonds).
- (10) Addressing any other matter not specifically set forth above that is not required to deliver our Approving Opinion.
- (11) Providing any financial advisory services; and this confirms that we are a law firm and not a registered municipal advisor.

ATTORNEY-CLIENT RELATIONSHIP

Our clients in this engagement are the Issuer and its Drainage Board, and an attorney-client relationship will exist between you and us. Macomb County also is our client in bond-related matters under an engagement letter between it and us.

OUR COMPENSATION

If no proceeds of the Bonds will be used to refund any Prior Bonds, our fee as your bond counsel in this engagement will be a fixed fee equal to a basic fee of \$75,000 plus one dollar (\$1.00) per each \$1,000 of the aggregate principal amount of the Bonds in excess of \$75 million. If, however, proceeds of the Bonds will be used to refund any Prior Bonds as well as to finance the Project, our fee will be a fixed fee equal to a basic fee of \$125,000 plus one dollar (\$1.00) per each \$1,000 of the aggregate principal amount of the Bonds in excess of \$125 million.

FOSTER SWIFT
FOSTER SWIFT COLLINS & SMITH P.C. ATTORNEYS

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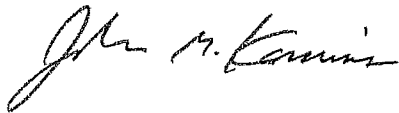
In addition, we will expect you to reimburse us for all client charges made or incurred in connection with the Bond issue, such as travel costs, document production and copying charges, courier deliveries, fax charges, filing fees, computer-assisted research, CD-ROM closing transcripts and other expenses. We estimate that such charges will be in the range of approximately \$2,000-\$4,000.

Our fee is usually paid at the Closing, and we customarily do not submit any statement until the Closing unless there is a substantial delay in completing the financing. In the event that this transaction is not completed by July 31, 2017, we reserve the right to present you for payment an interim statement for our services actually rendered to date.

If the foregoing terms are acceptable to you, please so indicate by returning a copy of this engagement letter signed by an authorized officer, and retain the original for your file. We look forward to working with you.

Very truly yours,

FOSTER, SWIFT, COLLINS & SMITH, P.C.



John M. Kamins

AGREED AND ACCEPTED:

Drainage Board for Macomb Interceptor Drain Drainage District
accepts and agrees to be bound by the foregoing.

**DRAINAGE BOARD for
MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT**

By: _____

Title:

**RESOLUTION AUTHORIZING THE ISSUANCE OF NOT TO EXCEED \$240,000,000
MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
DRAIN AND REFUNDING BONDS, SERIES 2017A
(LIMITED TAX GENERAL OBLIGATION)**

WHEREAS, the performance of the intra-county drain projects described in the attached Schedule I ("**Project**") by the Macomb Interceptor Drain Drainage District ("**Drainage District**" or "**Issuer**") is necessary to protect and preserve the public health;

WHEREAS, the Drainage District previously issued and desires to refund all or a portion of its outstanding Macomb Interceptor Drain Drainage District Drainage District Drain Bonds, Series 2010A (Limited Tax General Obligation) (Federally Taxable – Build America Bonds – Direct Payment), with the determination of the maturities and amounts of such Bonds to Be Refunded to be made by the Public Works Commissioner of Macomb County in accordance with the terms of this Resolution (as so determined, "**Bonds to Be Refunded**");

WHEREAS, the Drainage District desires to achieve interest savings by refunding the Bonds to Be Refunded;

WHEREAS, Part VI of Act No. 34 of the Michigan Public Acts of 2001, as amended ("**Act 34**"), authorizes the Drainage District to refund all or a portion of its outstanding securities by issuing refunding securities as described in Act 34;

WHEREAS, the Bonds to Be Refunded are secured pursuant to the pledge of the limited tax full faith and credit of the County pursuant to a resolution of the Macomb County Board of Commissioners adopted, by a 2/3 vote of its members-elect on May 27, 2010;

WHEREAS, pursuant to Section 609 of Act 34, a refunding security issued to refund municipal securities issued under the terms of the Drain Code (as defined below) shall be construed to be a continuation of the refunded outstanding municipal security; and

WHEREAS, it is anticipated that prior to the issuance of the Bonds (as defined below) the Macomb County Board of Commissioners will have acted, by a resolution adopted by a 2/3 vote of its members-elect, to pledge the limited tax full faith and credit of the County for the prompt payment of the principal of and interest on all of the Bonds as the same shall become due;

WHEREAS, the Drainage District desires to issue one or more series of bonds pursuant to Section 476 of the Drain Code to effectuate the refunding of the Bonds to Be Refunded and to finance the costs of the Project in anticipation of the collection of assessments made and to be made pursuant to the Drain Code and to pledge the full faith and credit of the Drainage District for the prompt payment of the principal of and interest on the bonds;

NOW THEREFORE, IT IS HEREBY RESOLVED BY THIS DRAINAGE BOARD as follows:

1. Definitions. Capitalized term used in this Resolution or in the Bonds have the meanings given above and below in this Resolution, including as follows, except where indicated otherwise by the context:
 - (a) "**Assessed Parties**" means Charter Township of Chesterfield, City of Fraser, City of Sterling Heights, City of Utica, Charter Township of Clinton, Charter Township of Harrison, Lenox Township, Macomb Township, Charter Township of Shelby, Village of New Haven and Washington Township, each of the County, and any other persons assessed under applicable provisions of the Drain Code with respect to the Bonds to Be Refunded.
 - (b) "**Bond Purchase Agreement**" means the agreement to be entered into by the Drainage District and the Underwriters with respect to the purchase of the Bonds.
 - (c) "**Bonds**" means the bonds to be issued pursuant to Section 3 and designated Macomb Interceptor Drain Drainage District, County of Macomb, State of Michigan, Drain and Refunding Bonds, Series 2017A (Limited Tax General Obligation) in Section 4.
 - (d) "**Code**" means the Internal Revenue Code of 1986, as amended, and the regulations promulgated thereunder.
 - (e) "**Commissioner**" means the Public Works Commissioner of the County, or her or his deputy.
 - (f) "**Drainage Board**" means the drainage board for the Drainage District.
 - (g) "**DTC**" means The Depository Trust Company, New York, New York.
 - (h) "**Escrow Agreement**" means an escrow deposit agreement relating to the refunding of the Bonds to Be Refunded to be entered into concurrently with the issuance of the Bonds by the Drainage District and the Escrow Trustee substantially in the form attached as **Exhibit A** to this Resolution.
 - (i) "**Escrow Trustee**" means The Huntington National Bank, Grand Rapids, Michigan, or such other bank or trust company with trust powers as may be designated by the Commissioner to act as Escrow Trustee under the Escrow Agreement.
 - (j) "**Macomb Interceptor Drain Series 2017A Special Assessments**" means the special assessments relating to the portion of the Bonds allocable to financing the Project and the interest thereon, and the special assessments relating to the Bonds to Be Refunded (if any, and thus relating to the portion of the Bonds allocable to the Refunding) and the interest thereon, in each case against the Assessed Parties to be paid in installments and set forth on the applicable Special Assessment Roll as approved by the Drainage Board, as corrected from time to time.

(k) "**Refunding**" means the refunding of the Bonds to Be Refunded (if any) to be effectuated using proceeds of any of the Bonds issued pursuant to this Resolution.

(l) "**Registered Owner**" means, with respect to any outstanding Bond or Replacement Bond, the Registered Owner thereof on the date of determination, as shown on the registration books of the Issuer maintained by the Transfer Agent.

(m) "**Rule**" means Rule 15c2-12 promulgated under the Securities Exchange Act of 1934, as amended.

(n) "**Section**" means the cited Section number or Section of this Resolution, (except where the context clearly indicates otherwise).

(o) "**Tax-Exempt Bonds**" means Bonds, the interest on which is excludable from gross income for federal income tax purposes under the Code.

(p) "**Taxable Bonds**" means Bonds (if any) other than Tax-Exempt Bonds.

(q) "**Transfer Agent**" means the bond registrar, transfer agent and paying agent for the Bonds, initially The Huntington National Bank.

(r) "**Treasurer**" means the Treasurer of the County.

(s) "**Underwriters**" means Citigroup Global Markets Inc. and any other broker-dealer represented by Citigroup Global Markets Inc.

2. Necessity. The performance of the Project is necessary for the public health. The refunding of the Bonds to Be Refunded will result in interest savings and will benefit the residents of the Assessed Parties. In order to provide funds to finance the costs of the Project and to refund the Bonds to Be Refunded it is necessary to issue the Bonds as provided herein and as authorized by the Drain Code and Act 34.

3. Issuance of Bonds.

(a) For the purposes of financing a portion of the costs of the Project, including payment of engineering, legal and financing expenses and other project costs within the meaning of the Drain Code in connection therewith, and refunding the Bonds to Be Refunded, including payment of issuance costs and refunding costs as permitted by the Drain Code and Act 34 in connection therewith, the Drainage Board, for and on behalf of the Drainage District, shall issue the Bonds as herein set forth in the aggregate principal amount of not to exceed \$240,000,000 (being not to exceed \$150,000,000 with respect to costs in connection with the Project and not to exceed \$90,000,000 with respect to costs in connection with the Refunding),

(b) Notwithstanding anything to the contrary in this Resolution, (i) the issuance of any Bonds allocable to the Refunding is subject to compliance with Section

611(1) of Act 34 (which generally requires net present value savings to be achieved in connection with a refunding); and (ii) the average maturity of any Bonds allocable to the Refunding may not exceed the remaining weighted average maturity of the Bonds to Be Refunded.

- (c) The total estimated cost of the Project, including the payment of engineering, legal and financing expenses and other project costs in connection therewith, is estimated to be an amount not to exceed \$150,000,000, and the estimated period of usefulness of the Project for which the Bonds are being issued is determined to be longer than thirty (30) years;

4. Bond Terms.

- (a) The Bonds shall be issued in the aggregate principal amount of not to exceed \$240,000,000 in anticipation of the collection of an equal amount of Macomb Interceptor Drain Series 2017A Special Assessments to be collected in installments and the Bonds shall be designated Macomb Interceptor Drain Drainage District, County of Macomb, State of Michigan, Drain and Refunding Bonds, Series 2017A (Limited Tax General Obligation); provided, however, that if any series of the Bonds is issued which is not at least in part for Refunding purposes, the designation of that series shall omit the words "and Refunding." The principal of and interest on the Bonds shall both be payable in the first instance from the Macomb Interceptor Drain Series 2017A Special Assessments. The Bonds shall consist of bonds registered as to principal and interest in the denomination of \$5,000 or integral multiples of \$5,000 up to the amount of a single maturity, numbered consecutively in order of authentication from 1 upwards, callable prior to maturity as provided below, dated the date of delivery, except as may otherwise be determined by the Commissioner, and shall mature annually on May 1 of each year through and including 2035 (with respect to the portion of principal of the Bonds allocable to providing funds for the Refunding) and 2047 or such earlier year as may otherwise be determined by the Commissioner (with respect to the portion of principal of the Bonds allocable to providing funds for the performance of the Project) , with the first principal payment date to be determined by the Commissioner. The principal amount of each maturity of the Bonds shall be determined by the Commissioner. The Bonds may be issued as Taxable Bonds or Tax-Exempt Bonds, as determined by the Commissioner in consultation with bond counsel and if the Bonds are issued as Taxable Bonds, "Federally Taxable" shall be added to the designation for the Bonds. The Bonds maturing in each year shall be eligible for designation as serial bonds or term bonds, or both, as determined by the Commissioner. There may be more than one term bond maturity. However, principal maturities designated as term bonds shall be subject to mandatory redemption, in part, by lot or otherwise pursuant to the procedures prescribed by DTC, at par and accrued interest on May 1st of the year in which such Bonds would otherwise be scheduled to mature if serial bonds.

- (b) The Underwriters shall have the option of designating in the Bond Purchase Agreement Bonds or portions of Bonds in integral multiples of \$5,000 maturing on and after May 1 in the year specified in the Bond Purchase Agreement which shall be subject to redemption prior to maturity, at the option of the Issuer, in such order as the Issuer shall determine, by lot within a maturity, on any date on or after May 1 in the year specified in the Bond Purchase Agreement, at par plus a redemption premium, if any, and accrued interest to the date fixed for redemption.
- (c) In case less than the full amount of an outstanding Bond is called for redemption, the Transfer Agent, upon presentation of the Bond called for redemption, shall register, authenticate and deliver to the Registered Owner of record a new Bond in the principal amount of the portion of the original Bond not called for redemption of the same maturity and bearing the same interest rate.
- (d) Notice of redemption shall be given to the Registered Owners of Bonds or portions thereof called for redemption by mailing of such notice by first class mail not less than thirty (30) days prior to the date fixed for redemption to the Registered Owner of record at the registered address, as shown on the registration books of the Issuer maintained by the Transfer Agent, which notice shall fix the date of record with respect to the redemption. Any defect in such notice, including the failure of a Registered Owner to receive such notice, shall not affect the validity of the redemption proceedings. Bonds so called for redemption shall not bear interest after the date fixed for redemption, provided that funds are on hand as of the date fixed for redemption with the Transfer Agent to redeem such Bonds.
- (e) The Bonds shall be sold at a price not less than ninety-eight percent (98.0%) of their par value. The Bonds shall bear interest at a rate or rates determined by the Commissioner, not exceeding a rate or net interest cost of six percent (6.0%) per annum, with an Underwriters' discount of not to exceed one percent (1.0%), payable on each May 1 and November 1, with the first such interest payment date to be determined by the Commissioner, by check drawn on the Transfer Agent mailed to the Registered Owner at the registered address, as shown on the registration books of the Issuer maintained by the Transfer Agent, or pursuant to the procedures of DTC while the Bonds are in book-entry only form. Interest on the Bonds shall be computed using a 360-day year with twelve 30-day months. Interest shall be payable to the Registered Owner of record as of the 15th day of the month prior to the payment date for each interest payment. The date of determination of Registered Owner for purposes of payment of interest as provided in this paragraph may be changed by the Issuer to conform to market practice in the future. The principal of the Bonds shall be payable upon presentation and surrender to the Transfer Agent at its designated office. The Drainage Board hereby designates The Huntington National Bank, Grand Rapids, Michigan as the Transfer Agent, or such other Transfer Agent as the Commissioner may designate, and the Commissioner may execute one or more agreements with the Transfer Agent on behalf of the Issuer in such form as she or he may approve. The Drainage Board reserves the right to replace the Transfer

Agent at any time by written notice mailed to the Registered Owners of record of Bonds not less than sixty (60) days prior to any interest payment date.

- (f) All determinations to be made by the Commissioner with respect to the Bonds pursuant to this Resolution shall be evidenced by her or his execution of the Bond Purchase Agreement.
- (g) The Commissioner is authorized to approve in the Bond Purchase Agreement the amount to be transferred to the Escrow Trustee in accordance with Section 9.
- (h) The Bonds are NOT designated as "qualified tax-exempt obligations" under the provisions of the Code, for purposes of deduction of interest expense by financial institutions under the provisions of Section 265(b)(3)(B) of the Code.

5. Book-entry Only Form.

- (a) The Bonds shall be issued only in fully registered form without coupons. One Bond representing each maturity will be issued to and registered in the name of Cede & Co., as nominee of DTC, as Registered Owner of the Bonds and each such Bond shall be immobilized in the custody of DTC or its agent. DTC will act as securities depository for the Bonds. Individual purchases will be made in book-entry form only, in the principal amount of \$5,000 or any integral multiple thereof. Purchasers will not receive physical delivery of certificates representing their interest in the Bonds purchased.
- (b) Principal, premium, if any, and interest payments on the Bonds will be made by the Transfer Agent by wire transfer to DTC or its nominee, Cede & Co., as Registered Owner of the Bonds, which will in turn remit such payments to the DTC participants for subsequent disbursement to the beneficial owners of the Bonds. Transfer of principal, premium, if any, and interest payments to DTC participants will be the responsibility of DTC. Transfers of such payments to beneficial owners of the Bonds by DTC participants will be the responsibility of such participants and other nominees of such beneficial owners. Transfers of ownership interests in the Bonds will be accomplished by book entries made by DTC and, in turn, by the DTC participants who act on behalf of the indirect participants of DTC and the beneficial owners of the Bonds.
- (c) The Issuer will not be responsible or liable for sending transaction statements or for maintaining, supervising or reviewing records maintained by DTC, its participants or persons acting through such participants or for transmitting payments to, communicating with, notifying, or otherwise dealing with any beneficial owner of the Bonds.

6. Procedure in the Event of Revision of Book-Entry Transfer System-Replacement Bonds.

- (a) The Issuer shall issue Bond certificates ("**Replacement Bonds**") directly to the beneficial owners of the Bonds other than DTC, or its nominee, but only in the event that:

- (i) DTC determines to discontinue providing its services with respect to the Bonds at any time by giving notice to the Issuer and discharging its responsibilities; or
 - (ii) the Issuer discontinues use of DTC (or substitute depository or its successor) at any time upon determination by the Issuer that the use of DTC (or substitute depository or its successor) is no longer in the best interests of the Issuer and the beneficial owners of the Bonds.
- (b) Upon the occurrence of the events described in either clause (a)(i) or clause (a)(ii) above, the Issuer shall attempt to locate another qualified securities depository. If the Issuer fails to locate another qualified securities depository to replace DTC, the Issuer shall execute and deliver Replacement Bonds in substantially the form set forth in this Resolution.
- (c) Prior to the execution and delivery of Replacement Bonds, the Issuer shall notify the beneficial owners of the Bonds by mailing an appropriate notice to DTC. Principal of and interest on the Replacement Bonds shall be payable by check or draft mailed to each Registered Owner of such Replacement Bonds at the registered address, as it shown on the registration books of the Issuer maintained by the Transfer Agent. Replacement Bonds will be transferred only by presentation and surrender to the Transfer Agent as registrar, together with an assignment duly executed by the Registered Owner of the Replacement Bond or by his or her representative in form satisfactory to the Transfer Agent as registrar and containing information required by the Transfer Agent as registrar in order to effect such transfer.
- (d) The Issuer may make a charge sufficient to reimburse it for any tax, fee or other governmental charge required to be paid with respect to an exchange or transfer of a Bond, and may charge the person requesting such exchange or transfer a sum or sums which shall be paid as a condition precedent to the exercise of the privilege of making such exchange or transfer.

7. Execution, Authentication and Delivery of Bonds.

- (a) The Chairman and any other member of the Drainage Board shall execute the Bonds for and on behalf of the Issuer, each by means of their manual or facsimile signatures. No Bond of any series shall be valid until authenticated by an authorized officer or representative of the Transfer Agent. The Bonds shall be delivered to the Transfer Agent for authentication and shall then be delivered to the purchaser in accordance with instructions from the Issuer upon payment of the purchase price for the Bonds in accordance with the Bond Purchase Agreement, provided that delivery of the Bonds shall be within forty-five (45) days after the date of the sale of the Bonds. Executed blank Bonds for registration and issuance to transferees shall simultaneously, and from time to time thereafter as necessary, be delivered to the Transfer Agent for safekeeping.

- (b) The Transfer Agent shall maintain and keep registration books for the Bonds on behalf of the Issuer. Any Bond may be transferred upon the books required to be kept pursuant to this Section by the person in whose name it is registered, in person or by his or her duly authorized attorney, upon surrender of the Bond for cancellation, accompanied by delivery of a duly executed written instrument of transfer in a form approved by the Transfer Agent. Whenever any Bond or Bonds shall be surrendered for transfer, the Issuer shall execute and the Transfer Agent shall authenticate and deliver in the name of the transferee or transferees a new Bond or Bonds, bearing the same interest rate and maturity date and for like aggregate principal amount as the surrendered Bond or Bonds. The Transfer Agent shall require the payment by the bondholder requesting the transfer of any tax or other governmental charge required to be paid with respect to the transfer.
- (c) Neither the Issuer nor the Transfer Agent shall be required to transfer or exchange any Bond or portion of any Bond either during the period of fifteen (15) days immediately preceding the date of mailing of any notice of redemption or (except as to the unredeemed portion, if any, of a Bond called for redemption) after such Bond or any portion of such Bond has been selected for redemption.

8. Primary Security for Bonds.

- (a) The Bonds and the interest thereon are being issued in anticipation of and shall be payable primarily from the Macomb Interceptor Drain Series 2017A Special Assessments pursuant to the Drain Code.
- (b) All of the Macomb Interceptor Drain Series 2017A Special Assessments are hereby pledged solely and only for the payment of the principal of and interest on the Bonds, and any additional bonds issued to complete the Project or any part thereof, including payment of engineering, legal and financing expenses, costs of issuance and other project costs within the meaning of the Drain Code in connection therewith,, in accordance with this Resolution. In addition, the full faith and credit of the Issuer is hereby pledged for the prompt payment of the principal of and interest on the Bonds when due.
- (c) Nothing contained in this Resolution shall be construed to prevent the Issuer from issuing additional bonds under the provisions of the Drain Code for any of the purposes authorized by the Drain Code, but any such bonds shall in no way have any lien on or be payable out of the Macomb Interceptor Drain Series 2017A Special Assessments pledged to the payment of the Bonds of this authorized issue, except such additional bonds as may be necessary may be issued to complete the Project, or any part of it, including payment of engineering, legal and financing expenses, costs of issuance and other project costs within the meaning of the Drain Code in connection therewith. Upon default in any of the Bonds or any additional bonds, to the extent any security may not be attributed to a particular series of bonds, it is the intention of the Issuer that such security or payments will be shared on a parity basis by all holders of bonds for which such security has been pledged, subject to bankruptcy, fraudulent conveyance or other

laws affecting creditors' rights generally now existing or hereafter enacted, and to the application of general principles of equity

9. Debt Retirement Fund.

- (a) It shall be the duty of the Issuer, after the adoption of this Resolution and the sale of the Bonds, to establish with the Treasurer a special depository account to be named Macomb Interceptor Drain Drainage District Drain and Refunding Bonds, Series 2017A Debt Retirement Fund (sometimes called "***Debt Retirement Fund***"), into which account it shall be the duty of the Issuer to deposit, as received, the accrued and capitalized interest on the Bonds, if any; collections of the Macomb Interceptor Drain Series 2017A Special Assessments; any transfers from the Costs of Issuance Fund made pursuant to Section 101; any payments made by the County pursuant to Section 12; any amounts described in Section 17; and any additional moneys paid by the Issuer to be used for purchasing Bonds for retirement prior to maturity. After satisfaction of any obligations to rebate earnings to the United States, moneys from time to time on hand in the Debt Retirement Fund shall be used solely and only for the payment of the principal of, redemption premium, if any, and interest on the Bonds.

After setting aside the amount representing the accrued and capitalized interest on the Bonds, if any, and after transferring to the Escrow Trustee from the proceeds of the Bonds including the premium paid in connection with the issuance of the Bonds, if any, for deposit in the escrow fund established pursuant to the Escrow Agreement of the amount determined by the Commissioner pursuant to Section 18(d) to provide for payment and redemption of the Bonds to Be Refunded, the balance of the proceeds of the sale of the Bonds shall be deposited as follows: (i) first, in the Project Fund the amount approved by the Commissioner pursuant to Section 18(e) to provide for payment, and reimbursement to the Issuer for its earlier payment, of costs relating to the Project; and (ii) second, the remaining balance thereof in the Costs of Issuance Fund.

10. Project Fund. It shall be the duty of the Issuer, after the adoption of this Resolution and the sale of the Bonds, to establish with the Treasurer a special depository account to be named Macomb Interceptor Drain Drainage District Drain and Refunding Bonds, Series 2017A Project Fund. Upon and after the initial deposit of moneys in the Project Fund pursuant to Section 9, all moneys in the Project Fund shall be used for the payment, and the reimbursement to the Issuer for its earlier payment, of costs (including engineering, legal and financing expenses) in connection with the planning, designing, acquisition, construction, reconstruction, renovation, repair and financing of the Project, subject to the terms and provisions of the Drain Code. Pending utilization for such purposes, as nearly as may be practicable all moneys in the Project Fund shall be invested, reinvested and deposited as permitted by Michigan law, which investments and deposits shall mature, or which shall be subject to redemption by the holder thereof at the option of the holder, not later than the respective dates, as estimated by the Issuer when such moneys will be required to pay the costs of the Project. Such investments and deposits shall be selected by the Issuer. After satisfaction of any obligations to rebate earnings to the United States,

interest realized from such investments or deposits shall be considered as additional moneys for the Project. Any surplus construction moneys remaining after paying the costs of the Project and paying the costs of issuance of the Bonds shall be used in accordance with the provisions of the Drain Code

11. Costs of Issuance Fund. It shall be the duty of the Issuer, after the adoption of this Resolution and the sale of the Bonds, to establish with the Treasurer a special depository account to be named Macomb Interceptor Drain Drainage District Drain and Refunding Bonds, Series 2017A Costs of Issuance Fund (sometimes called "***Costs of Issuance Fund***"). After making the deposits to the Debt Retirement Fund and the Project Fund and transfers to the Escrow Trustee described in Section 9, the balance of the proceeds of the sale of the Bonds shall be deposited in the Costs of Issuance Fund and used for the payment of costs of issuance of the Bonds and the costs of refunding the Bonds to Be Refunded. Any surplus moneys remaining after paying the costs of issuance of the Bonds and the costs of refunding the Bonds to Be Refunded shall be transferred to the Debt Retirement Fund and applied to the first payment of principal due on the Bonds.
12. Secondary Security for Bonds. It is anticipated that prior to the issuance of the Bonds the Macomb County Board of Commissioners will have acted, by a resolution adopted by a 2/3 vote of its members-elect, to pledge the limited tax full faith and credit of the County for the prompt payment of the principal of and interest on all of the Bonds as the same shall become due (if and when so adopted, "***County Resolution***"), pursuant to authorization provided in Chapter 20 of the Drain Code. As therein provided, if for any reason there are not sufficient funds on hand from the Macomb Interceptor Drain Series 2017A Special Assessments pledged to pay the principal of and interest on the Bonds when due, as specified herein, the Treasurer shall promptly, out of County funds, advance into the Debt Retirement Fund the amount of such deficiency. If it becomes necessary for the County to so advance such moneys, it shall have such right or rights of reimbursement and any and all remedies therefor as provided by the Drain Code or any other applicable law.
13. Bond Form. The Bonds shall be in substantially the following form, with such modifications and deletions as may be required to conform to the Bond Purchase Agreement:

**MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
COUNTY OF MACOMB, STATE OF MICHIGAN
DRAIN AND REFUNDING BOND, SERIES 2017A
(LIMITED TAX GENERAL OBLIGATION)**

Unless this Bond is presented by an authorized representative of The Depository Trust Company, a New York corporation ("**DTC**"), to the Issuer or its agent for registration of transfer, exchange, or payment and any certificate issued is registered in the name of Cede & Co. or in such other name as is requested by an authorized representative of DTC (and any payment is made to Cede & Co. or to such other entity as is requested by an authorized representative of DTC), ANY TRANSFER, PLEDGE OR OTHER USE OF THIS BOND FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL, inasmuch as the Registered Owner of this Bond, Cede & Co., has an interest in this Bond.

Interest Rate	Date of Maturity	Date of Original Issue	CUSIP
%	May 1, ____	____, 2017	55539P____

Registered Owner: Cede & Co.

Principal Amount: _____ Dollars

The Macomb Interceptor Drain Drainage District, County of Macomb, State of Michigan ("**Issuer**"), for value received, hereby promises to pay to the Registered Owner specified above, or registered assigns, the Principal Amount specified above, in lawful money of the United States of America on the Date of Maturity specified above, unless prepaid prior thereto as provided below, with interest thereon from the Date of Original Issue specified above or such later date to which interest has been paid, until paid, at the Interest Rate per annum specified above, first payable on ____ 1, 201____, and semiannually on each May 1 and November 1 thereafter. Interest shall be computed using a 360-day year with twelve 30-day months. Principal of this Bond is payable, upon surrender of this Bond, at the designated corporate trust office of _____, or such other Transfer Agent as the Issuer may hereafter designate by notice mailed to the Registered Owner hereof not less than sixty (60) days prior to any interest payment date ("**Transfer Agent**"). Interest on this Bond is payable to the Registered Owner of record as of the fifteenth (15th) day of the month preceding the payment date as shown on the registration books of the Issuer maintained by the Transfer Agent, by check or draft mailed to the Registered Owner at the registered address.

This Bond is one of a series of bonds of even original issue date, aggregating the principal amount of \$ _____, issued pursuant to a resolution adopted by the Drainage Board for the Issuer on _____, 2017 ("**Resolution**"), and under and in full compliance with the Constitution and statutes of the State of Michigan, and particularly Act No. 40, Public Acts of Michigan, 1956, as amended ("**Drain Code**"), and Act No. 34, Public Acts of Michigan, 2001, as amended ("**Act 34**"), for the purposes of financing a portion of the costs of the performance of certain intra-county drain projects, including payment of engineering, legal and

financing expenses and other project costs within the meaning of the Drain Code in connection therewith, and refunding [all] [a portion] of the Issuer's outstanding Macomb Interceptor Drain Drainage District Drainage District Drain Bonds, Series 2010A (Limited Tax General Obligation) (Federally Taxable – Build America Bonds – Direct Payment) ("**Bonds to Be Refunded**") and paying costs of issuance and costs of refunding in connection therewith. For a complete statement of the funds from which and the conditions under which this Bond is payable, and the general covenants and provisions pursuant to which this Bond is issued, reference is made to the Resolution. Capitalized terms not otherwise defined herein have the meaning given to them in the Resolution.

This Bond is payable primarily from the proceeds of certain Macomb Interceptor Drain Series 2017A Special Assessments (as defined in the Resolution) made pursuant to the provisions of the Drain Code. The Bonds and the interest thereon are being issued in anticipation of and shall be payable primarily from the Macomb Interceptor Drain Series 2017A Special Assessments pursuant to the Drain Code. In addition, the full faith and credit of the Issuer is hereby pledged for the prompt payment of the principal of and interest on the Bonds when due and any additional bonds issued in accordance with the Resolution when due.

Pursuant to authorization provided in Chapter 20 of the Drain Code and Section 609 of Act 34, the limited tax full faith and credit of the County has been pledged pursuant to the County Resolution for the prompt payment of the principal of, and interest on all of the Bonds as the same shall become due. If for any reason any of the Assessed Parties fails or neglects to pay to the Treasurer any amount of the Macomb Interceptor Drain Series 2017A Special Assessments, then the Treasurer shall advance the amount thereof from County funds. The full faith and credit pledge of the County is a limited tax general obligation subject to constitutional, statutory and charter limitations.

[Bonds maturing in years _____, inclusive, shall not be subject to redemption prior to maturity.]

[Bonds or portions of Bonds in integral multiples of \$5,000 maturing on and after May 1, _____ shall be subject to redemption prior to maturity, at the option of the Issuer, in such order as the Issuer shall determine, by lot within a maturity, on any date on or after May 1, _____, at par and accrued interest to the date fixed for redemption.]

[Insert mandatory redemption provisions if applicable.]

In case less than the full amount of an outstanding bond is called for redemption, the Transfer Agent, upon presentation of the bond called for redemption, shall register, authenticate and deliver to the Registered Owner of record a new bond in the principal amount of the portion of the original bond not called for redemption of the same maturity and bearing the same interest rate.

Notice of redemption shall be given to the Registered Owners of Bonds or portions thereof called for redemption by mailing of such notice by first class mail not less than thirty (30) days prior to the date fixed for redemption to the registered address of the Registered Owner of record, which notice shall fix the date of record with respect to the redemption. Any defect in

such notice, including the failure of any Registered Owner to receive such notice, shall not affect the validity of the redemption proceedings. Bonds so called for redemption shall not bear interest after the date fixed for redemption, provided that funds are on hand with the Transfer Agent to redeem such Bonds.

This bond is transferable only upon the books of the Issuer kept for that purpose at the designated office of the Transfer Agent by the Registered Owner hereof in person, or by his or her attorney duly authorized in writing, upon the surrender of this bond together with a written instrument of transfer satisfactory to the Transfer Agent duly executed by the Registered Owner or his or her attorney duly authorized in writing, and thereupon a new registered bond or bonds in the same aggregate principal amount, bearing the same interest rate and of the same maturity shall be issued to the transferee in exchange therefor as provided in the Resolution, and upon the payment of the charges, if any, therein prescribed.

Neither the Issuer nor the Transfer Agent shall be required to transfer or exchange any Bond or portion of any Bond either during the period of fifteen (15) days immediately preceding the date of mailing of any notice of redemption or (except as to the unredeemed portion, if any, of a Bond called for redemption) after such Bond or any portion of such Bond has been selected for redemption.

It is hereby certified and recited that all acts, conditions and things required by law precedent to and in the issuance of this Bond, and the series of bonds of which this is one, have been done and performed in regular and due time and form as required by law and that the total indebtedness of the Issuer, including the series of bonds of which this is one, does not exceed any constitutional or statutory limitation.

This Bond is not valid or obligatory for any purpose until the Transfer Agent's Certificate of Authentication on this Bond has been executed by the Transfer Agent.

IN WITNESS WHEREOF, the Macomb Interceptor Drain Drainage District, County of Macomb, State of Michigan, has caused this Bond to be signed in its name by the [facsimile] signature of the Chairman and one member of the Drainage Board, all as of the Date of Original Issue.

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

By: _____ [Bond Form]
Candice S. Miller
Chair, Drainage Board for the Macomb Interceptor
Drain Drainage District

and

By: _____ [Bond Form]
Member, Drainage Board for the Macomb
Interceptor Drain Drainage District

[FORM OF TRANSFER AGENT'S CERTIFICATE OF AUTHENTICATION]

Certificate of Authentication

This bond is one of the bonds described in the within-mentioned Resolution.

By: _____
Authorized Signature of Transfer Agent

Date of Registration: _____, 2____

ASSIGNMENT

For value received, the undersigned hereby sells, assigns and transfers unto

(please insert Social Security or other identifying number of assignee)

(please print or type name and address of transferee)

the within Bond and all rights thereunder and does hereby irrevocably constitute and appoint _____ attorney to transfer the within Bond on the books kept for registration thereof, with full power of substitution in the premises.

Dated: _____

Signature Guaranteed:

Signature(s) must be guaranteed by an eligible guarantor institution participating in a Securities Transfer Association recognized signature guarantee program

Eligible Guarantor Institution

By: _____

Authorized Signature

NOTICE: The signature of this assignment must correspond with the name as it appears upon the face of the within Bond in every particular, without alteration or enlargement or any change whatever. When assignment is made by a guardian, trustee, executor or administrator, an officer of a corporation, or anyone in a representative capacity, proof of his or her authority to act must accompany the Bond.

14. Tax Covenant for Tax-Exempt Bonds. The following provisions of this Section 14 shall be applicable if the Bonds are issued as Tax-Exempt Bonds. The Issuer covenants and agrees that to the extent permitted by law it will comply with the provisions or requirements of the Code, in order to maintain the exclusion from federal income taxation of interest on the Bonds, including, without limitation, actions relating to the rebate of arbitrage earnings and the expenditure and investment of the proceeds of the Bonds, and to not take any actions which would cause the Bonds to be private activity bonds (as defined in the Code). The Commissioner shall execute and furnish an appropriate non-arbitrage certificate at the time of delivery of the Bonds.
15. Contract with Bondholders. The provisions of this Resolution shall constitute a contract between the Issuer and the holder or holders of the Bonds from time to time, and after the issuance of the Bonds, may only be amended pursuant to Sections 19 or 20. The provisions of this Resolution shall be enforceable by appropriate proceedings taken by such holder under the law.
16. Other Covenants of the Issuer. The Issuer covenants and agrees with the successive holders of the Bonds that so long as any of the Bonds remain unpaid as to either principal or interest:
 - (a) The Issuer will punctually perform all of its obligations and duties under this Resolution and will collect, aggregate and apply the Macomb Interceptor Drain Series 2017A Special Assessments and other moneys paid by the Assessed Parties, in the manner required under this Resolution and the Drain Code, and will promptly and punctually perform all of its legal obligations and duties relating to the prompt payment of the principal of and interest on the Bonds.
 - (b) The Issuer will apply and use the proceeds of sale of the Bonds in the manner required by this Resolution, the Drain Code and the Escrow Agreement.
 - (c) The Issuer will maintain and keep proper books of record and account relating to the application of funds for the performance of the Project and the Macomb Interceptor Drain Series 2017A Special Assessments and other moneys received from the Assessed Parties. Not later than three (3) months after the end of each year, the Issuer shall cause to be prepared a statement, in reasonable detail, showing the application of the proceeds of sale of the Bonds, the cash receipts of Macomb Interceptor Drain Series 2017A Special Assessments from the Assessed Parties during such year and the application thereof, and such other information as may be necessary to enable any taxpayer or any Registered Owner of the Bonds, or anyone acting in their behalf, to be fully informed as to all matters pertaining to the performance of the Project and application of funds therefor or for the payment of the Bonds during such year. A certified copy of such statement shall be filed with the County Clerk of the County and the Clerks of the Assessed Parties which are public corporations.
 - (d) If for any reason the original Macomb Interceptor Drain Series 2017A Special Assessments shall not be sufficient to pay the principal of and interest on the

Bonds when due, the Drainage Board shall make such additional assessments therefor as may be necessary, apportioned as in the first instance, as authorized by the Drain Code.

17. Proceeds of Bond Sale; Investment. The proceeds of the sale of the Bonds herein authorized, except a sum equal to (a) six months (or such different period of time as may be determined by the Commissioner in the Bond Purchase Agreement) of capitalized interest on the Bonds, and (b) the amount of accrued interest, if any, received upon delivery of the Bonds, which sum shall be deposited in the Debt Retirement Fund, shall be deposited in the Project Fund and the Costs of Issuance Fund and transferred to the Escrow Trustee pursuant to Sections 9, 10 and 101. Pending utilization of the moneys in the Debt Retirement Fund, the Project Fund and the Costs of Issuance Fund as described in Sections 9, 10 and 101, such moneys, as nearly as may be practicable, shall be invested, reinvested and deposited as permitted by Michigan law, which investments and deposits shall mature, or which shall be subject to redemption by the holder thereof at the option of the holder, not later than the respective dates, as estimated by the Issuer, when such moneys will be required for the purposes described in Sections 9, 10 and 101. Such investments and deposits shall be selected by the Issuer. After satisfaction of any obligations to rebate earnings to the United States, interest realized from such investments or deposits shall be considered as additional moneys for the Project. Any surplus moneys remaining after paying the costs of performance of the Project and paying the costs of issuance of the Bonds and the costs of refunding the Bonds to Be Refunded shall be used in accordance with the provisions of the Drain Code.

18. Negotiated Sale, Issuance and Delivery of Bonds.

- (a) The Issuer has considered the option of selling the Bonds through a competitive sale and a negotiated sale, and has determined that a negotiated sale of the Bonds through the Underwriters will result in the most cost efficient and expeditious means of selling the Bonds and will result in the lowest interest cost to the Issuer. The final pricing and terms of the Bonds will be subject to the provisions of Section 4 and to the concurrence and recommendations of the Issuer's registered municipal advisor as to price, terms and conditions, and shall be evidenced by the Bond Purchase Agreement to be accepted by the Commissioner pursuant to Section 18(b).
- (b) The Commissioner is authorized to accept an offer from the Underwriters to purchase the Bonds in accordance with the provisions of Section 4. The Commissioner is authorized to execute and deliver a Bond Purchase Agreement for the Bonds in such form and with such changes as the Commissioner, in consultation with bond counsel, determines to be necessary or appropriate.
- (c) The Commissioner is authorized to approve the designation in the Bond Purchase Agreement of an initial interest payment date and an initial principal payment date and to make any other determinations to be made in accordance with the provisions of Section 4.

- (d) The Commissioner is authorized to approve the designation in the Bond Purchase Agreement of the maturities and amounts of the Bonds to Be Refunded (if any), depending upon which option results in the most interest savings, and based on the recommendation of the Issuer's registered municipal advisor.
- (e) The Commissioner is authorized to approve the designation in the Bond Purchase Agreement of the portion (expressed as a dollar amount) of the proceeds from the sale of the Bonds (including the premium paid in connection with the issuance of the Bonds, if any) to be deposited in the Project Fund.
- (f) The Commissioner is authorized to approve the distribution and use in accordance with law of a preliminary official statement with respect to the Bonds in such form and with such changes as the Commissioner, in consultation with bond counsel, shall approve. The Commissioner is authorized to deem such preliminary official statement final, in consultation with bond counsel, for purposes of the Rule. The Commissioner is authorized to cause to be prepared a final official statement substantially in the form of the preliminary official statement, with such changes, addition, deletions and variations as the Commissioner, in consultation with bond counsel, deems necessary and appropriate to reflect the final terms of the Bonds. The distribution and use of the official statement in accordance with applicable law by the Underwriters in connection with the marketing of the Bonds is hereby authorized. The Commissioner is authorized to execute the official statement on behalf of the Issuer.
- (g) The Commissioner is hereby designated, for and on behalf of the Issuer, to file a qualifying statement, request for reconsideration, or Application for State Treasurer's Approval to Issue Long-Term Securities, as applicable, with the Michigan Department of Treasury, as may be required pursuant to Act 34 and to pay any related fees in connection with any of the foregoing, and take any other actions necessary or desirable under Act 34 in connection with the Bonds.
- (h) In connection with the Refunding (if any), the Commissioner is authorized to execute and deliver a continuing disclosure undertaking for the Bonds on behalf of the Issuer if required by the Rule and the Bond Purchase Agreement in such form as the Commissioner, in consultation with bond counsel, determines to be necessary or appropriate.
- (i) The Commissioner is authorized to execute and deliver the Escrow Agreement in substantially the form attached hereto, with such modifications thereto as she or he may deem necessary or desirable in consultation with the Issuer's registered municipal advisor and bond counsel, including based upon the determination of the maturities and amounts of the Bonds to Be Refunded, as evidenced by her or his execution of the Escrow Agreement.
- (j) The Commissioner is authorized to execute and deliver such other certificates, documents and instruments as may be required by the purchaser(s) of the Bonds;

and to do all other acts and take all other actions and other necessary procedures required or appropriate to effectuate a sale, issuance and delivery of the Bonds and the refunding of the Bonds to Be Refunded (if any), including, if appropriate, and without limitation, obtaining a verification report regarding the sufficiency of the moneys to be deposited pursuant to the Escrow Agreement, approving the investments to be purchased by the Escrow Trustee for deposit to the Escrow Deposit Fund created under the Escrow Agreement in accordance with the terms of the Escrow Agreement, executing and delivering a letter of representations to DTC, receiving and applying payment for the Bonds, securing ratings by nationally recognized bond rating agencies, securing the services for printing the preliminary official statement and the official statement, providing for the delivery of the Bonds as may be agreed with the purchasers thereof, and making all payments and incurring all reasonable fees, costs and expenses incidental to the foregoing. The Commissioner shall not be required to secure an amendment to this Resolution or other approval from the Issuer if any reduction produces a bond issue whose terms remain within the terms authorized by this Resolution as outside parameters, or if such reduction or alteration is insignificant or insubstantial.

19. Supplemental Resolutions Not Requiring Approval of Registered Owners. The Drainage Board may adopt such resolutions supplemental hereto as shall not be inconsistent with the terms and provisions of this Resolution (which supplemental resolutions shall thereafter form a part hereof):

- (a) to cure any ambiguity or formal defect or omission in this Resolution or in any supplemental resolution;
- (b) to grant to or confer upon the Issuer for the benefit of the Registered Owners any additional rights, remedies, powers, authority or security that may lawfully be granted to or conferred upon the Registered Owners;
- (c) to make subject to the provisions of this Resolution any additional property;
- (d) if the Bonds are issued as Tax-Exempt Bonds, to comply with the provisions or requirements of the Code in order to maintain the exclusion from federal income taxation of interest on the Bonds; or
- (e) to accomplish, implement or give effect to any other action which is authorized or required by this Resolution.

20. Supplemental Resolutions With Approval of Registered Owners.

- (a) Subject to the terms and provisions contained in this Section 20, and not otherwise, the Registered Owners of not less than fifty-one percent (51%) in aggregate outstanding principal amount of the Bonds shall have the right, from time to time, to consent to and approve the adoption by the Drainage Board of such resolution or resolutions supplemental hereto as shall be deemed necessary or desirable by the Drainage Board for the purpose of modifying, altering,

amending, adding to or rescinding, in any particular, any of the terms or provisions contained in this Resolution or in any supplemental resolution as then may apply to the Bonds; provided, however, that nothing herein contained shall permit, or be construed as permitting (i) an extension of the maturity of the principal of or the interest on any Bond, or (ii) any alteration of any redemption requirements of Bonds except as may be provided herein, or (iii) a reduction in the principal amount of any Bond or the redemption premium or the rate of interest thereon, or (iv) the creation of a lien upon or a pledge of the Macomb Interceptor Drain Series 2017A Special Assessments other than the lien and pledge created by this Resolution and any other resolution authorizing any other bonds issued to complete the Project and/or the intra-county drain projects for which the Bonds to Be Refunded were issued, or (v) a preference or priority of any Bond or Bonds over any other Bond or Bonds, or (vi) any alteration in the nature of the permitted investments of funds and accounts relating to the Bonds or the application thereof, or (vii) a reduction in the aggregate outstanding principal amount of the Bonds required for consent to such supplemental resolutions. Nothing herein contained, however, shall be construed as making necessary the approval by Registered Owners of the adoption of any supplemental resolution as authorized in Section 19.

- (b) If at any time the Drainage Board desires to adopt any supplemental resolution for any of the purposes of this Section 20, the Issuer shall cause notice of the proposed adoption of such supplemental resolution to be mailed, postage prepaid, to all Registered Owners at their addresses as they appear on the registration books. The notice shall briefly set forth the nature of the proposed supplemental resolution and shall state that copies thereof are on file at the office of the Issuer for inspection by all Registered Owners.
- (c) Whenever, at any time within one year after the date of mailing such notice, the Issuer shall receive an instrument or instruments in writing purporting to be executed by the Registered Owners of not less than fifty-one percent (51%) in aggregate principal amount of the Bonds outstanding, which instrument or instruments shall refer to the proposed supplemental resolution described in such notice and shall specifically consent to and approve the adoption thereof in substantially the form of the copy thereof referred to in such notice, thereupon, but not otherwise, the Drainage Board may adopt such supplemental resolution in substantially such form, without liability or responsibility to any Registered Owner, whether or not such Registered Owners shall have consented thereto.
- (d) If the Registered Owners of not less than fifty-one percent (51%) in aggregate principal amount of the Bonds outstanding at the time of the acceptance of such supplemental resolution shall have consented to and approved the adoption thereof as herein provided, no owner of any Bond shall have any right to object to the adoption of such supplemental resolution, or to object to any of the terms and provisions contained therein or the operation thereof, or to enjoin or restrain the Issuer from adopting the same or from taking any action pursuant to the provisions thereof.

- (e) Upon the adoption of any supplemental resolution pursuant to the provisions of this Section 20, this Resolution shall be and be deemed to be modified and amended in accordance therewith, and the respective rights, duties and obligations under this Resolution of the Issuer, the Transfer Agent, and all Registered Owners of Bonds outstanding shall thereafter be determined, exercised and enforced hereunder, subject in all respects to such modifications and amendments.
21. Redemption. The Bonds are subject to redemption prior to maturity at the times and prices and in the manner set forth in or determined pursuant to this Resolution. Unless waived by any Registered Owner of Bonds to be redeemed, official notice of redemption shall be given by the Transfer Agent on behalf of the Issuer. Such notice shall be dated and shall contain at a minimum the following information: original issue date, maturity date, interest rates, CUSIP numbers, if any, the redemption date, the redemption price or premium, the place where Bonds called for redemption are to be surrendered for payment, and that interest on Bonds or portions thereof called for redemption shall cease to accrue from and after the redemption date, provided that funds are on hand with the Transfer Agent for the redemption of the Bonds or portions thereof. In addition, further notice shall be given by the Transfer Agent in such manner as may be required or suggested by regulations or market practice prevailing at the time, but no defect in such further notice or any failure to give all or any portion of such further notice shall in any manner affect the validity of any call for redemption if notice thereof is given as prescribed herein. The principal amount of Bonds to be redeemed each year pursuant to mandatory sinking fund redemption may be reduced through the earlier purchase or optional redemption thereof by the Issuer, with any partial purchase or optional redemptions of such Bonds credited against such future sinking fund requirements as the Issuer shall determine.
22. Defeasance of the Bonds. The Bonds shall be deemed to be paid in full upon the deposit in irrevocable, segregated trust of cash or direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by the United States of America, or any combination thereof, not redeemable at the option of the issuer, the principal and interest payments on which, without reinvestment of the interest, will come due at such times and in such amounts as to be fully sufficient to pay at the respective maturities or redemption dates prior to maturity of the Bonds, the principal thereof, any redemption premiums and interest to accrue thereon to such maturity or redemption dates, as the case may be. Securities representing such cash or obligations shall be deposited with a bank or trust company, and if any of such Bonds are to be called for redemption prior to maturity, irrevocable instructions to call such Bonds for redemption shall be given to the bond registrar and payment agent.
23. Further Actions. The Commissioner and her or his designees and agents, or any of them, are hereby authorized, empowered and directed to take all such actions as may be necessary or desirable to carry out and comply with the terms and provisions of this Resolution, and all such actions, whether taken previously or hereafter, shall be and are hereby ratified, confirmed and approved.

24. Appointment of Registered Municipal Advisor. Bendzinski & Co. Municipal Finance Advisors is hereby appointed as the Issuer's registered municipal advisor with respect to the Bonds.
25. Bond Counsel. Foster Swift Collins & Smith PC is hereby appointed as bond counsel with respect to the Bonds.
26. Conflicting Provisions Repealed. All resolutions or parts thereof in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.
27. Effective Date of Resolution. This Resolution shall become effective immediately upon its passage.

SCHEDULE I

Project

Description of interceptors and ancillary facilities to be acquired, constructed, reconstructed, renovated financed, operated, maintained, repaired, rehabilitated, removed from service, extended, and otherwise improved:

[TO BE SUPPLIED before adoption by Drainage Board]

EXHIBIT A
FORM OF ESCROW AGREEMENT

ESCROW DEPOSIT AGREEMENT

Relating to the Defeasance by the
Macomb Interceptor
Drain Drainage District

of

Macomb Interceptor Drain Drainage District Drainage District Drain Bonds, Series 2010A
(Limited Tax General Obligation) (Federally Taxable – Build America Bonds – Direct Payment)

between

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

and

THE HUNTINGTON NATIONAL BANK,

as Escrow Trustee

Dated as of _____, 2017

ESCROW DEPOSIT AGREEMENT

THIS ESCROW DEPOSIT AGREEMENT ("*Agreement*") dated as of _____, 2017, is between the Macomb Interceptor Drain Drainage District ("*Drainage District*") and The Huntington National Bank, as Escrow Trustee ("*Escrow Trustee*").

Recitals

A. The Drainage District previously issued its Drainage District Drain Bonds, Series 2010A (Limited Tax General Obligation) (Federally Taxable – Build America Bonds – Direct Payment) ("*Prior Bonds*").

B. The Prior Bonds were issued pursuant to a resolution duly adopted by the Drainage Board for the Drainage District on June 15, 2010 ("*Prior Resolution*").

C. The Drainage District has determined to defease all or a portion of the outstanding Prior Bonds ("*Bonds to Be Refunded*").

D. In order to provide, among other things, the necessary money to defease the Bonds to Be Refunded, and for other purposes, the Drainage District has determined to issue its Drain and Refunding Bonds, Series 2017A (Limited Tax General Obligation) ("*Bonds*").

E. The Huntington National Bank is the transfer agent ("*Prior Bond Transfer Agent*") with respect to the Prior Bonds.

F. The parties have determined to provide for payment of the Bonds to Be Refunded in accordance with the Prior Resolution by depositing with the Escrow Trustee moneys sufficient without investment or reinvestment of such funds, to pay the principal of and interest on, the Bonds to Be Refunded.

Agreements

In consideration of the above Recitals and of the mutual covenants set forth below, the parties hereto agree as follows:

1. Receipt of Prior Resolution. Receipt of a certified copy of the Prior Resolution is acknowledged by the Escrow Trustee.

2. Creation of Escrow Deposit Fund. There is created and established with the Escrow Trustee an irrevocable escrow trust fund designated the "Macomb Interceptor Drain Drainage District Drainage District Drain Bonds, Series 2010A (Limited Tax General Obligation) (Federally Taxable – Build America Bonds – Direct Payment) ("*Escrow Deposit Fund*")", to be held in trust by the Escrow Trustee separate and apart from other funds of the Drainage District and the Escrow Trustee, if any.

3. Funding of the Escrow Deposit Fund. Concurrently with the delivery of the Bonds, the Drainage District shall cause the transfer to the Escrow Trustee, for deposit in the Escrow Deposit Fund, of \$_____ of the proceeds of the Bonds, together with those

applicable securities described in **Exhibit B** attached to this Agreement and any substitutions therefor or additions thereto which are either direct obligations of the United States of America or obligations the principal of and interest on which are unconditionally guaranteed as to full and timely payment by the United States of America and which in either case are not callable at the option of the issuer of such security ("**Government Obligations**") and other available amounts.

4. Acceptance of Escrow; Application of Escrow Deposit Fund; Notice; Irrevocable Call for Redemption. The Escrow Trustee accepts the money and Government Obligations deposited pursuant to this Agreement. The deposit of the money and Government Obligations shall constitute an irrevocable deposit of the money for the benefit of the holders of the Bonds to Be Refunded and such money and Government Obligations shall be held in trust and shall be applied solely to the payment of the principal of, redemption premium, if any, and interest on the Bonds to Be Refunded in accordance with **Exhibit C** attached hereto and in accordance with Section 6 hereof. The Escrow Trustee shall hold the moneys and Government Obligations in the Escrow Deposit Fund at all times as special and separate trust funds for the benefit of the holders of the Bonds to Be Refunded, wholly segregated from other funds and securities on deposit with it, shall never commingle moneys in the Escrow Deposit Fund with other funds or securities owned or held by the Escrow Trustee in any capacity other than as Escrow Trustee hereunder, and shall never at any time apply, transfer, redeem, use, loan or borrow the moneys in the Escrow Deposit Fund in any way other than as provided in this Agreement. The Drainage District directs the Escrow Trustee to give the notice of redemption of the Bonds to Be Refunded substantially in the form set forth in **Exhibit D** hereto at the times and in the manner required by the Prior Resolution.

5. Limitation on Investments. Moneys in the Escrow Deposit Fund and the proceeds of the Government Obligations shall be held in cash and shall not be invested or reinvested except as provided in this Section 5.

(a) The Escrow Trustee has established the Escrow Deposit Fund consisting of the Government Obligations and cash listed in **Exhibit B** hereto. Upon the written direction of the Macomb County Public Works Commissioner or her or his deputy on behalf of the Drainage District, the Escrow Trustee shall invest or reinvest the moneys held in the Escrow Deposit Fund only if the Drainage District delivers to the Escrow Trustee the following:

(1) an opinion by an independent certified public accountant that after such investment or reinvestment, the principal amount of the Government Obligations in the Escrow Deposit Fund together with the interest thereon and other available moneys will be sufficient to pay, as they become due in accordance with **Exhibit C**, the principal of and interest on all of the Prior Bonds which have not been paid previously; and

(2) an opinion of nationally recognized bond counsel, which may be rendered in reliance upon an opinion by an independent certified public accountant with respect to the yield of the Bonds and the yield of the Government Obligations in the Escrow Deposit Fund, to the effect that (a) such investment will not cause the Bonds (if issued as bonds, the interest on which is excludable from gross income for federal income tax purposes under the Code) or the Prior Bonds to be "arbitrage bonds" within the meaning of the Internal Revenue Code of 1986,

as amended, and the regulations thereunder (collectively, the "*Code*") in effect on the date of such investment, or otherwise cause the interest on the Bonds (if issued as bonds, the interest on which is excludable from gross income for federal income tax purposes under the Code) to be included in gross income for federal income tax purposes (other than alternative minimum or other indirect taxation), and (b) such investment or reinvestment complies with the Constitution and laws of the State of Michigan and with all relevant documents relating to the issuance of the Bonds and Prior Bonds.

Upon direction of the Drainage District, and upon compliance with the conditions of this Section for investment of moneys held in the Escrow Deposit Fund, the Escrow Trustee shall, to the extent from time to time permitted by law, have the power to sell, transfer or otherwise dispose of or request the redemption of the Government Obligations and to use the proceeds derived from this sale, transfer, disposition or redemption of such Government Obligations to substitute therefor other Government Obligations. Any remaining cash balances in the Escrow Deposit Fund shall be held in cash.

- (b) If at any time through redemption or cancellation of any of the Prior Bonds, through deposit of additional cash or Government Obligations, by reason of an investment or reinvestment pursuant to this Section, for any other reason, there exists or will exist cash or interest on the maturing principal of the Governmental Obligations in the Escrow Deposit Fund in excess of the amounts needed to make transfers as provided for in this Agreement, the Escrow Trustee may transfer such excess amounts to or on the order of the Drainage District provided that no such transfer shall be made prior to the last date Prior Bonds are to be paid or redeemed pursuant to this Agreement unless there is delivered to the Escrow Trustee the following:

(1) an opinion by an independent certified public accountant that after the transfer of such excess, the principal amount of the Governmental Obligations in the Escrow Deposit Fund together with the interest thereof without reinvestment and other available moneys on deposit in the Escrow Deposit Fund will be sufficient to pay, as the same become due, in accordance with Exhibit C, the principal of and interest on the Prior Bonds which have not been paid previously; and

(2) an opinion of nationally recognized bond counsel, which may be rendered in reliance upon an opinion by an independent certified public accountant with respect to the yield of the Bonds and the yield of the Government Obligation in the Escrow Deposit Fund, to the effect that (a) such transfer will not cause the Bonds (if the interest on the Bonds is excludable from gross income for federal income tax purposes under the Code) or the Prior Bonds to be "arbitrage bonds" within the meaning of the Code in effect on the date of such transfer, or otherwise (as applicable) cause the interest on the Bonds to be included in gross income for federal income tax purposes (other than alternative minimum or other indirect taxation), and (b) such transfer complies with the Constitution and laws of the State of Michigan and with all relevant documents relating to the issuance of the Bonds and the Prior Bonds.

- (c) The Drainage District hereby covenants and agrees that it shall never request the Escrow Trustee to exercise any power hereunder or permit any part of the money in the Escrow Deposit Fund or proceeds from the sale of Government Obligations to be used directly or indirectly to acquire any securities or obligations if the exercise of such power or the acquisition of such securities or obligations would cause the Prior Bonds and, as applicable if the interest on the Bonds is excludable from gross income for federal income tax purposes under the Code, the Bonds to be "arbitrage bonds" within the meaning of the Code and the regulations thereunder.

6. Payment of Bonds to Be Refunded. The Bonds to Be Refunded shall be paid pursuant to the applicable provisions of the Prior Resolution. On or before each payment date on the Bonds to Be Refunded, the Escrow Trustee shall withdraw from the Escrow Deposit Fund and remit to itself as the Prior Bonds Transfer Agent sufficient money to pay the principal of, redemption premium, if any, and interest on the Bonds to Be Refunded on such date, as shown in Exhibit C hereto. If any Bonds to Be Refunded are not presented for payment, the Prior Bonds Transfer Agent shall retain funds for that purpose in accordance with the provisions therefor contained in the Prior Resolution. If for any reason there is a deficiency in the amount of money available for payment of the principal of and interest on, the Bonds to Be Refunded, the Drainage District shall immediately, upon notice of the deficiency from the Escrow Trustee, pay or cause to be paid the amount of the deficiency to the Escrow Trustee for deposit in the Escrow Deposit Fund.

7. Lien of Holders of Bonds to Be Refunded on Escrow Deposit Fund. The escrow created hereby shall be irrevocable and the holders of the Bonds to Be Refunded shall have an express lien on all money and investments, including the interest earned thereon, in the Escrow Deposit Fund until paid out, used and applied in accordance with this Agreement, except to the extent moneys not required to pay principal of or interest on the Bonds to Be Refunded may be released from the Escrow Deposit Agreement.

8. Cash Balances. Notwithstanding any failure of the Escrow Trustee to account for any funds received by it for the Escrow Deposit Fund, such funds shall be and remain the property of the Escrow Deposit Fund and the holders of the Bonds to Be Refunded shall be entitled to the preferred claim upon such funds enjoyed by a trust beneficiary. The funds received by the Escrow Trustee under this Agreement shall not be considered as a banking deposit by the Drainage District, and the Drainage District shall have no right or title with respect thereto except as specifically provided herein and to enforce the provisions hereof. The funds so received by the Escrow Trustee, as trustee under this Agreement, shall not be subject to checks or drafts drawn by the Drainage District.

9. Fees and Expenses. The Drainage District agrees to pay to the Escrow Trustee, a fee for performing the services hereunder and all expenses incurred or to be incurred by the Escrow Trustee in the administration of this Agreement, which includes a one-time fee of _____ and 00/100 Dollars (\$_____). In the event that either the Escrow Trustee is requested to perform any extraordinary services hereunder, the Drainage District agrees to pay or caused to be paid reasonable fees to the Escrow Trustee for such extraordinary services, and the Escrow Trustee agrees to look only to the Drainage District for the payment of such fees and reimbursement of such expenses. The Escrow Trustee agrees that in no event shall it ever assert any claim or lien against the Escrow Deposit Fund for any

fees for its services, whether regular or extraordinary, in any capacity, or for reimbursement for any of its expenses. If the Escrow Trustee renders any service hereunder not provided for in this Agreement, or the Escrow Trustee is made a party to or intervenes in any litigation pertaining to this Agreement or institutes interpleader proceedings relative hereto, the Escrow Trustee shall be compensated reasonably by the Drainage District for such extraordinary services and reimbursed for any and all claims, liabilities, losses, damages, fines, penalties, and expenses, including out-of-pocket and incidental expenses and legal fees occasioned thereby.

10. Successor to the Escrow Trustee. If at any time the Escrow Trustee or its legal successor or successors should become unable, through operation of law or otherwise (but not including withdrawal solely at the request of the Escrow Trustee which shall not be permitted hereunder), as Escrow Trustee hereunder, or if its property and affairs shall be taken under the control of any state or federal court or administrative body because of insolvency or bankruptcy or for any other reason, the Drainage District may appoint another bank or trust company to act on its behalf.

Any successor to The Huntington National Bank shall execute, acknowledge and deliver to the Drainage District an instrument accepting such appointment hereunder and The Huntington National Bank shall execute and deliver an instrument transferring to such successor, its rights, powers and duties subject to the terms of this Agreement, including, without limitation, the right of The Huntington National Bank to demand payment from the Drainage District for any unpaid fees and expenses incurred in connection with the provision of extraordinary services of The Huntington National Bank pursuant to Section 9, all the rights, powers and trusts of The Huntington National Bank hereunder, including, without limitation, the money and investments in the Escrow Deposit Fund held by The Huntington National Bank. Upon the request of any such successor to the Drainage District, the Drainage District shall cause to be executed any and all instruments in writing for more fully and certainly vesting in and confirming to such successor all such rights, powers and duties.

11. Application of Escrow Deposit Fund After Payment of Bonds to Be Refunded. After payment in full of the principal of and interest on the Bonds to Be Refunded (such principal, redemption premium, if any, and interest being deemed paid upon maturity thereof or on the redemption date if the Escrow Trustee then holds sufficient funds available therefor), and the payment of all of the fees and expenses of the Escrow Trustee relating to the Bonds to Be Refunded, all remaining money and investments, together with any interest thereon, in the Escrow Deposit Fund shall be transferred by the Escrow Trustee to or at the direction of the Drainage District.

12. Records. The Escrow Trustee will keep books of record and account in which complete entries shall be made of all transactions relating to the receipts, disbursements, allocations and application of the Escrowed Securities deposited in the Escrow Deposit Fund and all proceeds thereof; and such books shall be available for inspection at reasonable hours and under reasonable conditions by the Drainage District and the holders of the Bonds to Be Refunded.

13. Notice. Any notice, authorization, request or demand required or permitted to be given hereunder shall be in writing and shall be deemed to have been duly given when mailed by registered or certified mail, postage prepaid, addressed as follows:

If to the Drainage District:
Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036
Attn: Chief Deputy

If to the Escrow Trustee:
The Huntington National Bank

The United States Post Office registered or certified mail receipt showing delivery of the aforesaid shall be conclusive evidence of the date and fact of delivery. Any party hereto may change the address to which notices are to be delivered by giving to the other party not less than 10 days' prior notice thereof.

14. Termination of Escrow Deposit Agreement. This Agreement shall terminate when the principal of and interest on, the Bonds to Be Refunded have been fully paid and discharged in accordance with the Prior Resolution, and any remaining money and investments together with any interest thereon in the Escrow Deposit Fund have been transferred by the Escrow Trustee to the Drainage District pursuant to 11 hereof.

15. Amendment. This Agreement is made for the benefit of the Drainage District and the holders from time to time of the Bonds to Be Refunded, and it shall not be repealed, revoked, altered or amended without the written consent of (i) all of the holders of the outstanding Bonds to Be Refunded, and (ii) the parties hereto; provided, however, that the parties hereto may, without the consent of, or notice to, such holders or such issuer, enter into such agreements supplemental to this Agreement as shall not adversely affect the rights of such holders or such issuer and as shall not be inconsistent with the terms and provisions of this Agreement, for any one or more of the following purposes:

- (a) to cure any ambiguity or formal defect or omission in this Agreement;
- (b) to grant to, or confer upon, the Drainage District, for the benefit of the holders of the Bonds to Be Refunded, any additional rights, remedies, powers or authority that may lawfully be granted to, or conferred upon, such holders or the Drainage District;
- (c) to subject to this Agreement additional funds, securities or properties; or
- (d) to conform this Agreement to the provisions of any law or regulation governing the requirements under the Code with respect to the Bonds to Be Refunded, or if the interest on the Bonds is excludable from gross income for federal income tax purposes under the Code, with respect to the Bonds in order to maintain the exclusion of the interest on the Bonds from gross income for federal income tax purposes.

The Escrow Trustee shall be entitled to rely exclusively upon an unqualified opinion of legal counsel with respect to compliance with this Section, including the extent, if any, to which

(i) any change, modification or addition affects the rights of the holders of the Bonds to Be Refunded, or (ii) any instrument executed hereunder complies with the conditions and provisions of this Section.

16. Reliance on Certain Documents. The Escrow Trustee shall incur no liability in acting or proceeding, or in not acting or proceeding, in good faith, reasonably and in accordance with the terms of this Agreement, upon any resolution, order, notice, request, consent, waiver, certificate, statement, affidavit, requisition, bond or other paper or document which the Escrow Trustee shall in good faith reasonably believe to be genuine and to have been adopted or signed by the proper board or person or to have been prepared and furnished pursuant to any of the provisions of this Agreement, or upon the written opinion of any attorney, investment banker or accountant believed by the Escrow Trustee to be qualified in relation to the subject matter of such opinion. The Escrow Trustee shall be under no duty to make any investigation or any inquiry as to any statements contained or matters referred to in any such instrument.

17. Limitation on Liability of the Escrow Trustee. The liability of the Escrow Trustee to transfer funds to itself as the Prior Bonds Transfer Agent for the payment of the principal of and interest and redemption premiums, if any, on the Bonds to Be Refunded shall be limited to the proceeds of the Escrowed Securities and the cash balances from time to time on deposit in the Escrow Deposit Fund. The Escrow Trustee shall not have any liability whatsoever for the insufficiency of funds from time to time in the Escrow Deposit Fund except for the obligation to notify the Drainage District promptly of any such occurrence.

The Escrow Trustee shall not be liable or responsible for any loss resulting from any investment made in the Escrowed Securities or other investments directed by the Drainage District as permitted hereby or for any other deficiency in the funds required hereunder not resulting from the negligence or violation of the terms hereof by the Escrow Trustee.

The Escrow Trustee shall not be liable or responsible hereunder for any act done or step taken or omitted by it or any mistake of fact or law or for anything which it may do or refrain from doing, except for its negligence or its default in the performance of any obligation imposed upon it hereunder.

The Escrow Trustee shall never be required to use or advance its own funds or otherwise incur personal financial liability in the performance of any of its duties or the exercise of any of its rights and powers hereunder.

Each and every provision governing the rights, immunities and protections vested in or conveyed to the Transfer Agent under the Prior Resolution shall be vested in the Escrow Trustee and are herein incorporated by reference into this Agreement as though fully set forth herein.

18. Severability. If any one or more of the covenants or agreements provided in this Agreement on the part of the parties to be performed should be determined by a court of competent jurisdiction to be contrary to law, such covenant or agreement shall be deemed and construed to be severable from the remaining covenants and agreements herein contained and shall in no way affect the validity of the remaining provisions of this Agreement.

19. Counterparts; Headings. This Agreement may be executed in several counterparts, all or any of which shall be regarded for all purposes as an original and shall constitute and be but one and the same instrument. The paragraph headings used herein are for convenience of reference only.

IN WITNESS WHEREOF, the parties hereto have each caused this Agreement to be executed by their duly authorized officers and to be delivered all as of the date first written above.

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

By: _____

Its: _____

THE HUNTINGTON NATIONAL BANK, as Escrow Trustee

By: _____

Its: _____

EXHIBIT A
THE BONDS TO BE REFUNDED

Maturity Date <u>May 1</u>	Principal Amount to <u>Be Refunded</u>

EXHIBIT B
DEPOSIT TO ESCROW DEPOSIT FUND

- (i) Cash in the amount of \$_____.
- (ii) **[Description of Government Obligations]** which mature on the dates and in the principal amounts shown below, and which bear interest at the following annual interest rates:

Maturity Date	Principal	Interest Rate
----------------------	------------------	----------------------

EXHIBIT C
PAYMENT REQUIREMENTS FOR BONDS TO BE REFUNDED

<u>Date</u>	<u>Principal</u>	<u>Interest</u>	<u>Principal Redeemed</u>	<u>Total</u>

EXHIBIT D
[FORM OF NOTICE OF REDEMPTION]

NOTICE OF REDEMPTION
MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
COUNTY OF MACOMB, STATE OF MICHIGAN
DRAINAGE DISTRICT DRAIN BONDS, SERIES 2010A (LIMITED TAX GENERAL
OBLIGATION) (FEDERALLY TAXABLE – BUILD AMERICA BONDS – DIRECT
PAYMENT)

Dated _____, 2017

NOTICE IS GIVEN that the Macomb Interceptor Drain Drainage District (the "Drainage District") has called [all of the outstanding] [the following] Macomb Interceptor Drain Drainage District Drainage District Drain Bonds, Series 2010A (Limited Tax General Obligation) (Federally Taxable – Build America Bonds – Direct Payment) maturing May 1, 201[] through May 1, 20[35], inclusive, for redemption on _____, 2017. All redemptions shall be at a redemption price of 100% of the principal amount, plus accrued interest. The CUSIP numbers, maturity dates, interest rates and aggregate principal amounts of the Bonds called for redemption are:

<u>CUSIP NUMBERS</u>	<u>MATURITY DATE</u>	<u>INTEREST RATE</u>	<u>AGGREGATE PRINCIPAL AMOUNT</u>	<u>REDEMPTION DATE</u>
55539P__				

All of the Bonds will cease to bear interest from and after their respective redemption dates, whether or not the Bonds are presented for redemption, provided that funds are on hand as of the date fixed for redemption with the Transfer Agent for the redemption of the Bonds or portions thereof.

Payment of the principal amount of the Bonds will be made on and after the respective redemption dates upon presentation of the Bonds at the offices of The Huntington National Bank, Grand Rapids], Michigan.

Withholding of 28% of the gross redemption proceeds of any payment made within the United States may be required by applicable law unless the undersigned has the correct Tax Identification Number (Social Security or Employer Identification Number) or Exemption Certificate of the payee. To avoid withholding, furnish a properly completed Form W-9 or Exemption Certificate or equivalent when presenting Bonds for payment.

Dated: _____, 2017

THE HUNTINGTON NATIONAL BANK

By:

83971:00004:3039367-2



City of Fraser

Building & Code Enforcement Department

January 21, 2017

Salam Tobiya
34960 Eberlein
Fraser, MI 48026

Re: Property Number 11-31-102-011 at 34960 Eberlein

After inspection by the Fraser Building Department and our contracted engineering firm, AEW, Inc., of the dwelling located at the referenced site, it has been determined that it is in a dangerous and unsafe condition. This was a result of the damage that took place as a result of the sinkhole that started on December 24, 2016 and continued to expand on the days following. Fraser Ordinance, Article IX, section 6-151 defines a dangerous building as one where "...any portion has been damaged by fire, wind, flood, or by any other cause in such a manner that the structural strength or stability is appreciably less than it was before such catastrophe..." and where "...the building or structure or any part, because of dilapidation, deterioration, decay, faulty construction, or because of the removal of movement of some portion of the ground necessary for the purpose of supporting such building or portion thereof, or for other reason, is likely to partially or completely collapse, or some portion of the foundation or underpinning is likely to fall or give way." Also, if "...any portion or member or appurtenance is likely to fall or to become detached or dislodges, or to collapse and thereby injure persons or damage property," it would be considered dangerous.

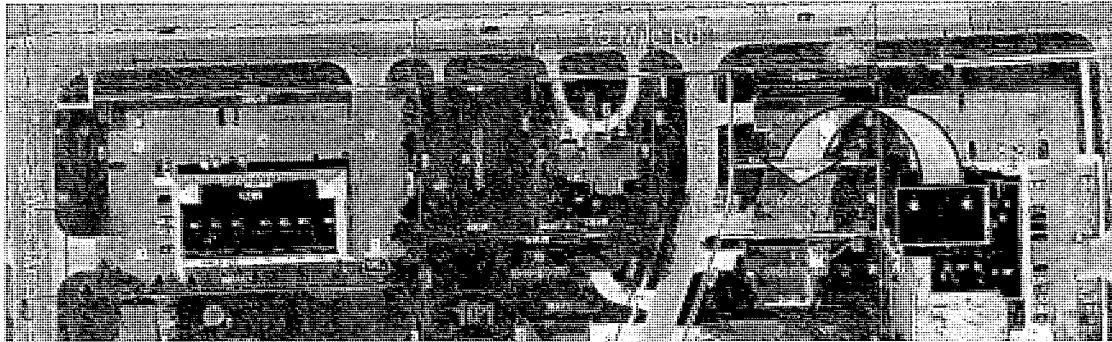
Until the structure is considered safe by this department and the proper representatives from AEW, Inc., it must not be entered by any other individuals. It was tagged by me, as such, on December 27, 2016. Although Fraser Ordinance Section 6-152 states that "...No person shall keep or maintain any building or part thereof which is a dangerous building," the emergency situation of the collapsed interceptor, and ground movement, warrants that we will not enforce the demolition or removal of this condition immediately, nor will we be having an immediate hearing to show cause why this building should not be removed.

If you have any questions, please call the Building Department at (586) 293-3100, extension 154.

Respectfully,

Randy A. Warunek
Building Official

**Macomb Interceptor Drain Drainage District
15 Mile Sinkhole-15 Mile & Eberlein Dr.
City of Fraser, Macomb County, MI
34960 Eberlein Dr., Fraser, MI 48026**



SUBJECT PARCEL — AERIAL VIEW PHOTO EXTRACTED VIA Macomb County GIS Maps

OWNER OF RECORD: Tobiya Salam
34960 Eberlein Dr.
Fraser, MI 48026

PROPERTY LOCATION: 34960 Eberlein Dr., Fraser, MI 48026

SIDWELL #: 11-31-102-011

INTEREST APPRAISED: Fee Simple- Total Acquisition

CLIENT: Macomb Interceptor Drain Drainage District
C/O Benjamin J. Aloia
Aloia & Associates
48 S. Main St., Suite 3
Mt. Clemens, MI 48043

DATE OF VALUATION: December 24, 2016

DATE OF REPORT: February 5, 2017

APPRAISED BY: R.S. Thomas & Associates, Inc./*Harold Blake Co*
Andrew Boettcher
33620 Five Mile Road
Livonia, MI 48154
(734)422-5353
www.rsthbc-appraisers.com

February 5, 2017

Macomb Interceptor Drain Drainage District
C/O Benjamin J. Aloia
Aloia & Associates
48 S. Main St., Suite 3
Mt. Clemens, MI 48043

Re: Macomb Interceptor Drain Drainage District
15 Mile Sinkhole-15 Mile & Eberlein Dr.
City of Fraser, Macomb County, MI
34960 Eberlein Dr., Fraser, MI 48026
Parcel ID#: 11-31-102-011

Dear Mr. Aloia:

Pursuant to your request, we have appraised the above-captioned parcel of real estate. It is our understanding this appraisal is to be used for a determination of just compensation relative to the acquisition of the real estate involving a single family residence as identified above. Macomb County Drain Drainage District is proposing to acquire the entire property due to a sinkhole that developed on 15 Mile Road between Hayes and Utica Roads resulting in physical damage to the subject property. The purpose of this real estate appraisal is to estimate the amount of just compensation required for the proposed acquisition.

This appraisal uses the legal definitions consistent with eminent domain proceedings. The date of valuation is the date of loss or December 24, 2016 representing a retrospective appraisal as defined by the Uniform Standards of Professional Appraisal Practice. Damage to the site and residential improvements prohibited entry to the site or residence. The property was viewed from the exterior only on February 1, 2017. Michigan eminent domain law requires that the value estimated herein follow certain legal definitions for fair market value, highest and best use, effect of total takings and other related appraisal issues.



33620 FIVE MILE ROAD • LIVONIA, MI 48154

734-422-5353 • 734-422-5354fax • RSTHBC-APPRAISERS.COM

orders@rsthbc-appraisers.com



Based on the highest and best use of the subject property as of the date of value, and representative of typical market participants, the appraiser has utilized the sales approach to value. The cost approach and income approach have been considered within the scope of the assignment, however, found not applicable.

The subject of this appraisal is a 2,025 square foot single family residence situated on a platted site on the east side of Eberlein Dr., south of 15 Mile Rd., Fraser, Michigan. The site provides approximately 66.66' feet of frontage on Eberlein Dr. and a depth of approximately 149.45+/- feet for a total site area of approximately 9,409 square feet or 0.216 acres.

The purpose of this appraisal is to identify the market value of the real estate regarding the proposed acquisition. The function of the report is to utilize the results for Macomb County Drain Drainage District to purchase the subject property in total acquisition. However, the appraisal assignment is not based on a requested minimum valuation or a specific valuation. This appraisal is intended to and presented in a format in accordance with the Uniform Standards of Professional Appraisal Practice (USPAP). The intended use is for the private use of the client to assist in determining just compensation for the proposed acquisition. The report is not intended for any other use including but not limited to tax appeal or lending.

After the determination of the highest and best use of subject property and the identification of any applicable assumptions and hypothetical conditions pertaining to the site, we will be viewing subject property in its present single family use. Within the sales approach consideration is given to market recognized features, as well as the current economic climate within the region and State of Michigan. We have considered the market conditions for housing within this location and as of the date of valuation. The client and intended user of this report is Mr. Aloia and those authorized representatives of Macomb Interceptor Drain Drainage District. This report is solely for these users and this use. Any other use may result in a misunderstanding of this appraisal and the conclusions.

The jurisdictional definitions of fair market value and highest and best use, as required by Michigan Statute, have been applied in this appraisal. Per Uniform Standards of Professional Appraisal Practice (USPAP) Section 2-2(a), this report is considered an Appraisal Report. There is additional data maintained within our work file.

This appraisal estimates the value of the subject twice; "before" the proposed acquisition was contemplated and then "after" the proposed acquisition of the real estate. The difference between these two values is the estimated just compensation for the proposed acquisition. This being a total acquisition of the real property, the after value will be zero.

The following summarizes our estimate of just compensation.

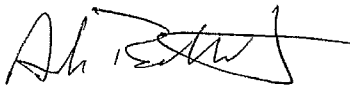
Estimated Value – Before	\$260,000
Estimated Value – After	<u>\$0,000</u>
Decrease in Value	\$260,000
Total Estimated Just Compensation	\$260,000.00

Information pertaining the subject property is gathered through public records and property owners. Although various sources may illustrate differences in square footage or acreage, we have utilized the most recent information for valuation of the property. Should additional information become available, we reserve the right to re-analyze this appraisal and its conclusions.

We have no interest in the property and our fee is in no way contingent upon the value reported herein. We have not performed services as an appraiser regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment. My analyses, opinions, and conclusions were developed and this report is intended to conform to the Uniform Standards of Professional Appraisal Practice of the Appraisal Foundation and the Principles of Appraisal Practice and Code of Ethics of the International Right of Way Association. Appraisers are required to be licensed/certified and are regulated by the Department of Licensing and Regulatory Affairs, Post Office Box 30018, Lansing Michigan 48909.

Respectfully submitted,

R.S. Thomas & Associates, Inc. / *Harold Blake Co.*



Andrew Boettcher

◆ Michigan Certified General Real Estate Appraiser - Permanent I.D. #1201003946

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

OFFER TO PURCHASE

and

STATEMENT OF COMPENSATION FOR REAL PROPERTY ONLY

To: Salam Tobiya and Tammetrice Smith
3986 Heavenly Lane
Warren, MI 48092

Property Address: 34960 Eberlein
Fraser, MI 48026

The Macomb Interceptor Drain Drainage District ("MIDDD"), hereby offers the owners and other signed parties ("Owners") who may have an interest in the real property legally described in **Addendum A** ("Property"), to acquire the Property for the total sum of **Three Hundred Twenty-Five Thousand and 00/100 (\$325,000.00) Dollars**, which has been estimated to be just compensation based on the fair market value of the Property, subject to the terms and conditions stated herein as follows:

GOOD FAITH OFFER:

- (a) Identification of the real property to be acquired:

See legal description on **Addendum A** attached hereto and incorporated as part of this document by reference.

- (b) Type of interest being acquired: FEE SIMPLE PURCHASE (Total Take Acquisition)

- (c) Identification of improvements including fixtures which are to be acquired, if any:

-
- (d) Good Faith Offer amount breakdown:

1. LAND OR IMPROVEMENTS	\$ 260,000.00
2. 25% INCREASE PURSUANT TO MCL 213.23(5)	\$ 65,000.00
3. OTHER	\$
4. TOTAL	\$ 325,000.00

(e) Additional Terms and Conditions:

MCL 213.23 requires that the amount of compensation made and determined for the taking of an individual's principal residence shall not be less than 125% of that person's fair market value. This Good Faith Offer is intended to pay the Property owner 125% of the fair market value of the property, but does not include or resolve any other item that may be compensable under the Michigan Uniform Condemnation Procedures Act or any other law.

See Addendum B – Miscellaneous Terms and Conditions

The authorized MIDDD Representative's signature below under **VERIFICATION OF OFFER** is for the verification that the Good Faith Offer for Real Property Only has been made to you pursuant to the Michigan Uniform Condemnation Procedures Act. Your receipt or rejection of this offer does not prejudice your right to have the final amount determined through condemnation proceedings in the event you do not accept the offer.

Your signature below under **ACCEPTANCE OF OFFER** is intended to act as acceptance of the terms hereof by Owners, and shall result in a binding agreement of sale of the Property ("Final Agreement") effective upon the delivery of your signature below to MIDDD. The Final Agreement will be deemed a resolution of any and all claims that you may have had under the Michigan Condemnation Procedures Act related to condemnation of the Real Property only, unless this agreement is amended in a writing signed by all parties to the Final Agreement.

I CERTIFY THAT, on this ____ day of _____, 20__ a copy of this document and a copy of the written appraisal showing the basis for the amount established as estimated just compensation were delivered to me by the undersigned authorized MIDDD Representative.

Owner or Representative

VERIFICATION OF OFFER:

Dated: _____

By: Candice S. Miller
Its: Authorized MIDD Representative

ACCEPTANCE OF OFFER:

Dated: _____

By: Salam Tobiya

Dated: _____

By: Tammetrice Smith

MIDD:

Dated: _____

By: Candice S. Miller
Its: Authorized MIDD Representative

ADDENDUM A

LEGAL DESCRIPTION

The following described premises situated in the City of Fraser, County of Macomb, and State of Michigan, and being more particularly described as follows:

Lot 2, WHISPERING PINES SUBDIVISION, according to the plat thereof as recorded in Liber 124, Pages 29 and 30 of Plats, Macomb County Records.

Commonly known as: 34960 Eberlein, Fraser, Michigan
Parcel ID No. 11-31-102-011

ADDENDUM B

MISCELLANEOUS TERMS AND CONDITIONS

1. **MUCPA.** This Good Faith Offer for Real Property only is made to Owners by MIDDD pursuant to the Michigan Condemnation Procedures Act. If you believe that this Good Faith Offer does not include one or more items of compensable damage to the Real Property for which you intend to claim a right to just compensation, the Owners shall, for each item, file a written claim with MIDDD within ninety (90) days of the date of this offer. This claim shall provide sufficient information and detail to enable MIDDD to evaluate the validity of the claim and to determine its value. MCL 213.23 requires that the amount of compensation made and determined for the taking of an individual's principal residence shall not be less than 125% of that person's fair market value. This Good Faith Offer is intended to pay the Property owner 125% of the fair market value of the property, but does not include or resolve any other item that may be compensable under the Michigan Uniform Condemnation Procedures Act or any other law.

If the Owners and MIDDD are unable to agree upon the terms of the acquisition of the Property within ninety (90) days after receiving this Good Faith Offer to purchase the Property, MIDDD may file a complaint for the acquisition of property in the Macomb County Circuit Court.

2. **PROPERTY TAX PRORATION AND DISCHARGE OF LIENS.** MIDDD will act as an escrow agent in closing this sale. All taxes, assessments and liens which have become an encumbrance upon the Property, whether recorded or not recorded, at the date of this agreement, shall be paid by the Owners. For fee takings, current taxes, if any, shall be prorated and adjusted as of the date of closing in accordance with DUE date basis of the municipality or taxing unit in which the Property is located. For purposes of this agreement, all real property taxes are to be considered paid in advance. Interest, rents and water bill shall be prorated and adjusted as of the date of closing. MIDDD will be responsible for the payment for any and all transfer taxes and recording fees applicable to close this transaction.

Furthermore, the Owners understand that MIDDD has acquired this fee simple interest with the expectation that it will use it to the fullest extent for demolition purposes and will have first priority over all other liens and encumbrances on the Property. The Owners' lender(s) and/or lien holders may have priority over the claim of any funds the Owners may receive as a result of this purchase and the MIDDD reserves the right to deduct and distribute the just compensation funds in whole or in part to Owners' mortgage lender(s), and/or lien holders, as well as any taxing authorities who have a lien on the property in the amount necessary to discharge or subordinate their liens on the Property.

3. **NOTICE OF RESERVATION OF RIGHTS.** MIDDD gives notice that it reserves its rights to bring a federal or state cost recovery action against the present owners, or any other potentially responsible parties, arising out of a release of hazardous substances on or under the Property.

4. **ENTIRE AGREEMENT.** Upon the signature of all of the necessary parties, this Offer and Acceptance shall be deemed a Final Agreement between the parties with respect to the subject matter and may not be contradicted by evidence of prior, contemporaneous, or subsequent oral agreements of the parties. This Agreement shall only be modified or amended by a writing signed by each party to be charged.

5. **APPLICABLE LAWS.** This Agreement is governed by the laws of the State of Michigan. Any actions concerning the Offer or a Final Agreement must be filed in the Courts having jurisdiction in Macomb County, Michigan.

6. **COUNTERPARTS AND COPIES.** The Final Agreement may be executed in counterparts, each of which shall be deemed an original but together they shall constitute one and the same instrument, and emailed and/or facsimile signatures shall be treated the same as the original signatures for all purposes.

7. **NOTICE.** All notices and other communications under this Offer or Final Agreement under an eventual Final Agreement, shall be in writing and shall be effective (a) upon actual delivery if presented personally or if sent by certified or registered mail, postage prepaid, return receipt requested, and (b) five (5) business days following the deposit first class in the United States mail, to the following addresses:

OWNERS: Salam Tobiya & Tammetrice Smith
c/o Darius W. Dynkowski, Esq.
Ackerman, Ackerman & Dynkowski
100 W. Long Lake Road, Suite 210
Bloomfield Hills, MI 48304

MIDDD: Benjamin J. Aloia, Esq.
Aloia & Associates, P.C.
48 S. Main Street, Suite 3
Mount Clemens, MI 48043

and

Candice S. Miller
Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036

8. **EFFECTIVE DATE.** The Effective Date of any Offer shall be effective as of the date signed by the Authorized Representative of the MIDDD. The effective date of the Acceptance of any Offer is the date signed by the Owners and required signatories of this Agreement.

9. **SUCCESSORS AND ASSIGNS.** This Agreement binds and benefits the parties' successors and assigns to the Property. The Owners may not assign their interest in this Offer or the Final Agreement unless they receive permission from the MIDDD in writing.

RIGHT OF ENTRY, POSSESSION AND USE AGREEMENT

This RIGHT OF ENTRY, POSSESSION AND USE AGREEMENT (the "Agreement") is executed on the _____ day of March, 2017, by SALAM TOBIYA and TAMMETRICE SMITH, husband and wife, whose address is 3986 Heavenly Lane, Warren, Michigan 48092 (hereafter collectively referred to as the "Grantors"), in favor of the MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT, whose address is 21777 Dunham Rd, Clinton Township, Michigan 48036 (the "MIDDD"), effectively granting the MIDDD, its agents, representatives and contractors, the right to enter, possess, and use the entirety of the real property legally described in **Addendum A** and more commonly known as 34960 Eberlein, Fraser, Michigan 48026 (the "Property") for the purpose of demolishing the residence located on the Property, and for any and all purposes in conjunction with the MIDDD's construction work on the Macomb Interceptor Drain ("Project"). The rights granted pursuant to this Agreement are limited to the Property and no other land owned by the Grantors. (The Grantors and the MIDDD are sometimes referred to as the "Parties" herein.)

At the request of the MIDDD, the Grantors are granting to the MIDDD the right to enter, possess and use the Property to allow the Project to proceed immediately and without delay, subject to the following conditions:

1. It is understood and agreed that the grant of the right to enter, possess and use the Property by the Grantors to the MIDDD pursuant to this Agreement does not in any manner foreclose or constitute a waiver of the Grantors' right to seek just compensation, interest, and reimbursements of expert fees, costs and attorney fees via a condemnation action pursuant to the Uniform Condemnation Procedures Act, MCLA 213.51, et seq., ("MUCPA"), in the event the Grantors and the MIDDD cannot agree upon the amount of the just compensation to be paid by the MIDDD to Grantors. If the MIDDD and the Grantors are unable to reach an agreement as to the just compensation amount to be paid by MIDDD to the Grantors, then within 90 days from the date that this Agreement is executed, the MIDDD shall file a condemnation action in the Macomb County Circuit Court to acquire the Property from the Grantors pursuant to the MUCPA. Within 42 days of the filing of the condemnation complaint, the Grantors and the MIDDD shall enter an Order Waiving Necessity, Vesting Title and Paying Estimated Just Compensation, which shall incorporate this Agreement by reference, and the MIDDD shall pay the Estimated Just Compensation to the Grantors within thirty (30) days from the date of the entry of the Order.
2. In consideration of the execution of this Agreement by the Grantors and the granting of the rights herein, it is agreed by MIDDD that statutory interest, pursuant to MCLA 213.65, shall

commence on the date of execution of this Agreement on the total payment or award ultimately received by Grantors.

3. In consideration of the agreements of the MIDDD as contained herein, the Grantors hereby specifically acknowledge that there is a public necessity for the Project and the Grantors hereby specifically waive any right to challenge the public necessity of the Project in the future.

Grantors specifically understand and acknowledge that the residence located on the Property has been determined by the City of Fraser to be in a dangerous and unsafe condition (See the enclosed letter from the Fraser Building & Code Enforcement Department). Grantors further understand and acknowledge that as of the date of this Agreement, the City of Fraser has declared the Property to be unsafe, and it remains in a dangerous and unsafe condition according to the City of Fraser, and that it should be demolished as soon as possible.

In consideration of the agreements of the Grantors herein, and pursuant to MCL 213.66, MIDDD agrees to reimburse the Grantors' experts' fees and attorneys' fees, whether the acquisition is accomplished voluntarily or by eminent domain. The attorneys' fees shall be no greater than one-third of the difference between the MIDDD's first written good faith offer and the ultimate payment or award of just compensation received by the Grantors, including interest, unless the MIDDD and the Grantors agree to a different amount of reimbursement for attorneys' fees.

4. This Agreement shall become effective when fully executed by the Grantors and the MIDDD. Provided, however, in any event, if executed by Grantors, the MIDDD shall execute this Agreement within five (5) days of the date on which the Grantors have executed this Agreement, or on the next regularly scheduled Board meeting after the MIDDD receives the originally signed version of this Agreement from the Grantors, whichever is later.
5. To the extent permitted by law, and for the duration of this Right of Entry only, the MIDDD agrees to indemnify and to hold the Grantors, their members, managers and employees harmless against any losses, costs, expenses, damage, liabilities, or claims, whether groundless or not, arising out of bodily injury, sickness or disease, including death resulting at the time therefrom, which may be sustained or claimed by any person or persons, or destruction of any property, (including the loss of use thereof) based on any act or omission, negligent or otherwise, of the MIDDD or anyone else acting on its behalf, relating to any activity, construction, operation, uses and/or maintenance on the Property except that the MIDDD shall not be responsible for indemnification of a Grantor for damages caused by or resulting from the Grantors' negligence.
6. The MIDDD shall have the exclusive option to record this Agreement in the Macomb County Register of Deeds Office. Upon recording, a copy of the recorded document shall be provided to Grantors showing the date, liber and page of recording.

7. All parties hereto have knowingly, freely, voluntarily, and with the advice and explanation of counsel, executed this Agreement. In addition, all parties hereto acknowledge that they have read this Agreement in full and agree with its contents.
8. This Agreement contains the entire agreement between the parties hereto, and the terms of this Covenant are contractual and not a mere recital. This Agreement incorporates all prior agreements and promises between the parties, whether written or oral.
9. This Agreement is not assignable by either party; however, this Agreement shall be binding upon, and the benefits hereof shall inure to the parties hereto and their successors in interest.
10. There are no intended third-party beneficiaries to this Agreement.
11. If any provision of this Agreement is determined by a court of competent jurisdiction to be invalid or unenforceable, the remaining portion of this Agreement shall nonetheless remain in full force and effect.
12. This Agreement cannot be changed orally, and no executory agreement shall be effective to waive, change, modify, or discharge it, in whole or in part, unless such executory agreement is in writing and is signed by the Parties against whom enforcement of any waiver, change, modification, or discharge is sought.
13. This Agreement shall, in all respects, be governed by, and construed in accordance with the laws of the State of Michigan and venue for any dispute shall lie in Macomb County, Michigan.
15. This Agreement shall only be effective upon the execution of this Agreement by Grantors and MIDD.

(SIGNATURE PAGES FOLLOW)

GRANTORS:

SALAM TOBIYA

TAMMETRICE SMITH

STATE OF MICHIGAN)
)ss.
COUNTY OF _____)

On this ____ day of March, 2017, before me a Notary Public, personally appeared SALAM TOBIYA and TAMMETRICE SMITH, husband and wife, known to me to be the persons who executed the within instrument and who acknowledged the same to be their free act and deed.

Notary Public
State of Michigan, County of _____
My Commission Expires: _____
Acting in the County of _____

MIDDD:

MACOMB INTERCEPTOR DRAIN DRAINAGE
DISTRICT

By: Candice S. Miller
Its: Macomb County Public Works Commissioner
and Authorized Signer

STATE OF MICHIGAN)
)ss.
COUNTY OF MACOMB)

On this ____ day of March, 2017, before me a Notary Public, personally appeared Candice S. Miller, Macomb County Public Works Commissioner and Authorized Signer of MACOMB COUNTY DRAIN DRAINAGE DISTRICT, known to me to be the person who executed the within instrument and who acknowledged the same to be her free act and deed.

Notary Public
State of Michigan, County of _____
My Commission Expires: _____
Acting in the County of Macomb

Drafted by and after recording return to:
Benjamin J. Aloia, Esq.
Aloia & Associates, P.C.
48 S. Main Street, Suite 3
Mount Clemens, MI 48043

ADDENDUM A

LEGAL DESCRIPTION

The following described premises situated in the City of Fraser, County of Macomb, and State of Michigan, and being more particularly described as follows:

Lot 2, WHISPERING PINES SUBDIVISION, according to the plat thereof as recorded in Liber 124, Pages 29 and 30 of Plats, Macomb County Records.

Commonly known as: 34960 Eberlein, Fraser, Michigan
Parcel ID No. 11-31-102-011



City of Fraser

Building & Code Enforcement Department

January 21, 2017

Jerome & Susan Albu
34980 Eberlein
Fraser, MI 48026

Re: Property Number 11-31-102-010 at 34980 Eberlein

After inspection by the Fraser Building Department and our contracted engineering firm, AEW, Inc., of the dwelling located at the referenced site, it has been determined that it is in a dangerous and unsafe condition. This was a result of the damage that took place as a result of the sinkhole that started on December 24, 2016 and continued to expand on the days following. Fraser Ordinance, Article IX, section 6-151 defines a dangerous building as one where "...any portion has been damaged by fire, wind, flood, or by any other cause in such a manner that the structural strength or stability is appreciably less than it was before such catastrophe..." and where "...the building or structure or any part, because of dilapidation, deterioration, decay, faulty construction, or because of the removal of movement of some portion of the ground necessary for the purpose of supporting such building or portion thereof, or for other reason, is likely to partially or completely collapse, or some portion of the foundation or underpinning is likely to fall or give way." Also, if "...any portion or member or appurtenance is likely to fall or to become detached or dislodges, or to collapse and thereby injure persons or damage property," it would be considered dangerous.

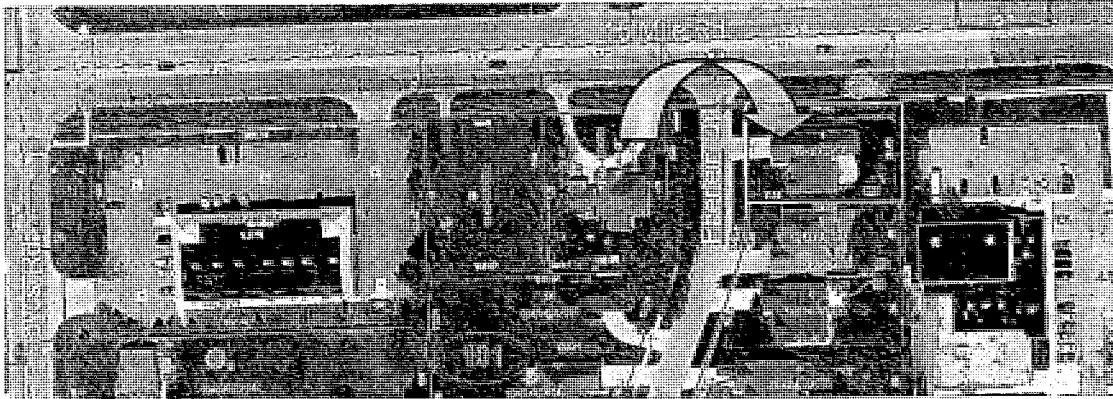
Until the structure is considered safe by this department and the proper representatives from AEW, Inc., it must not be entered by any other individuals. It was tagged by me, as such, on December 27, 2016. Although Fraser Ordinance Section 6-152 states that "...No person shall keep or maintain any building or part thereof which is a dangerous building," the emergency situation of the collapsed interceptor, and ground movement, warrants that we will not enforce the demolition or removal of this condition immediately, nor will we be having an immediate hearing to show cause why this building should not be removed.

If you have any questions, please call the Building Department at (586) 293-3100, extension 154.

Respectfully,

Randy A. Warunek
Building Official

**Macomb Interceptor Drain Drainage District
15 Mile Sinkhole-15 Mile & Eberlein Dr.
City of Fraser, Macomb County, MI
34980 Eberlein Dr., Fraser, MI 48026**



SUBJECT PARCEL — AERIAL VIEW PHOTO EXTRACTED VIA Macomb County GIS Maps

OWNER OF RECORD: Jerome & Susan E. Albu
34980 Eberlein Dr.
Fraser, MI 48026

PROPERTY LOCATION: 34980 Eberlein Dr., Fraser, MI 48026

SIDWELL #: 11-31-102-010

INTEREST APPRAISED: Fee Simple- Total Acquisition

CLIENT: Macomb Interceptor Drain Drainage District
C/O Benjamin J. Aloia
Aloia & Associates
48 S. Main St., Suite 3
Mt. Clemens, MI 48043

DATE OF VALUATION: December 24, 2016

DATE OF REPORT: February 5, 2017

APPRAISED BY: R.S. Thomas & Associates, Inc. / *Harold Blake Co*
Andrew Boettcher
33620 Five Mile Road
Livonia, MI 48154
(734)422-5353
www.rsthbc-appraisers.com

February 5, 2017

Macomb Interceptor Drain Drainage District
C/O Benjamin J. Aloia
Aloia & Associates
48 S. Main St., Suite 3
Mt. Clemens, MI 48043

Re: Macomb Interceptor Drain Drainage District
15 Mile Sinkhole-15 Mile & Eberlein Dr.
City of Fraser, Macomb County, MI
34980 Eberlein Dr., Fraser, MI 48026
Parcel ID#: 11-31-102-010

Dear Mr. Aloia:

Pursuant to your request, we have appraised the above-captioned parcel of real estate. It is our understanding this appraisal is to be used for a determination of just compensation relative to the acquisition of the real estate involving a single family residence as identified above. Macomb County Drain Drainage District is proposing to acquire the entire property due to a sinkhole that developed on 15 Mile Road between Hayes and Utica Roads resulting in physical damage to the subject property. The purpose of this real estate appraisal is to estimate the amount of just compensation required for the proposed acquisition.

This appraisal uses the legal definitions consistent with eminent domain proceedings. The date of valuation is the date of loss or December 24, 2016 representing a retrospective appraisal as defined by the Uniform Standards of Professional Appraisal Practice. Damage to the site and residential improvements prohibited entry to the site or residence. The property was viewed from the exterior only on February 1, 2017. Michigan eminent domain law requires that the value estimated herein follow certain legal definitions for fair market value, highest and best use, effect of total takings and other related appraisal issues.



33620 FIVE MILE ROAD • LIVONIA, MI 48154

734-422-5353 • 734-422-5354fax • RSTHBC-APPRAISERS.COM

orders@rsthbc-appraisers.com



Based on the highest and best use of the subject property as of the date of value, and representative of typical market participants, the appraiser has utilized the sales approach to value. The cost approach and income approach have been considered within the scope of the assignment, however, found not applicable.

The subject of this appraisal is a 1,830 square foot single family residence situated on a platted site on the east side of Eberlein Dr., south of 15 Mile Rd., Fraser, Michigan. The site provides approximately 85.26' feet of frontage on Eberlein Dr. and a depth of approximately 136+/- feet for a total site area of approximately 11,848 square feet or 0.272 acres.

The purpose of this appraisal is to identify the market value of the real estate regarding the proposed acquisition. The function of the report is to utilize the results for Macomb County Drain Drainage District to purchase the subject property in total acquisition. However, the appraisal assignment is not based on a requested minimum valuation or a specific valuation. This appraisal is intended to and presented in a format in accordance with the Uniform Standards of Professional Appraisal Practice (USPAP). The intended use is for the private use of the client to assist in determining just compensation for the proposed acquisition. The report is not intended for any other use including but not limited to tax appeal or lending.

After the determination of the highest and best use of subject property and the identification of any applicable assumptions and hypothetical conditions pertaining to the site, we will be viewing subject property in its present single family use. Within the sales approach consideration is given to market recognized features, as well as the current economic climate within the region and State of Michigan. We have considered the market conditions for housing within this location and as of the date of valuation. The client and intended user of this report is Mr. Aloia and those authorized representatives of Macomb Interceptor Drain Drainage District. This report is solely for these users and this use. Any other use may result in a misunderstanding of this appraisal and the conclusions.

The jurisdictional definitions of fair market value and highest and best use, as required by Michigan Statute, have been applied in this appraisal. Per Uniform Standards of Professional Appraisal Practice (USPAP) Section 2-2(a), this report is considered an Appraisal Report. There is additional data maintained within our work file.

This appraisal estimates the value of the subject twice; "before" the proposed acquisition was contemplated and then "after" the proposed acquisition of the real estate. The difference between these two values is the estimated just compensation for the proposed acquisition. This being a total acquisition of the real property, the after value will be zero.

The following summarizes our estimate of just compensation.

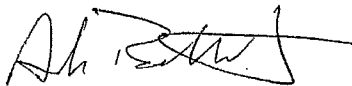
Estimated Value – Before	\$260,000
Estimated Value – After	<u>\$0,000</u>
Decrease in Value	\$260,000
Total Estimated Just Compensation	\$260,000.00

Information pertaining the subject property is gathered through public records and property owners. Although various sources may illustrate differences in square footage or acreage, we have utilized the most recent information for valuation of the property. Should additional information become available, we reserve the right to re-analyze this appraisal and its conclusions.

We have no interest in the property and our fee is in no way contingent upon the value reported herein. We have not performed services as an appraiser regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment. My analyses, opinions, and conclusions were developed and this report is intended to conform to the Uniform Standards of Professional Appraisal Practice of the Appraisal Foundation and the Principles of Appraisal Practice and Code of Ethics of the International Right of Way Association. Appraisers are required to be licensed/certified and are regulated by the Department of Licensing and Regulatory Affairs, Post Office Box 30018, Lansing Michigan 48909.

Respectfully submitted,

R.S. Thomas & Associates, Inc. / *Harold Blake Co.*



Andrew Boettcher

◆ Michigan Certified General Real Estate Appraiser - Permanent I.D. #1201003946

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

OFFER TO PURCHASE

and

STATEMENT OF COMPENSATION FOR REAL PROPERTY ONLY

To: Jerome and Susan Albu
34980 Eberlein
Fraser, MI 48026

Property Address: 34980 Eberlein
Fraser, MI 48026

The Macomb Interceptor Drain Drainage District (“MIDDD”), hereby offers the owners and other signed parties (“Owners”) who may have an interest in the real property legally described in **Addendum A** (“Property”), to acquire the Property for the total sum of **Three Hundred Twenty-Five Thousand and 00/100 (\$325,000.00) Dollars**, which has been estimated to be just compensation based on the fair market value of the Property, subject to the terms and conditions stated herein as follows:

GOOD FAITH OFFER:

- (a) Identification of the real property to be acquired:

See legal description on **Addendum A** attached hereto and incorporated as part of this document by reference.

- (b) Type of interest being acquired: FEE SIMPLE PURCHASE (Total Take Acquisition)

- (c) Identification of improvements including fixtures which are to be acquired, if any:

-
- (d) Good Faith Offer amount breakdown:

1. LAND OR IMPROVEMENTS	\$ 260,000.00
2. 25% INCREASE PURSUANT TO MCL 213.23(5)	\$ 65,000.00
3. OTHER	\$
4. TOTAL	\$ 325,000.00

(e) Additional Terms and Conditions:

MCL 213.23 requires that the amount of compensation made and determined for the taking of an individual's principal residence shall not be less than 125% of that person's fair market value. This Good Faith Offer is intended to pay the Property owner 125% of the fair market value of the property, but does not include or resolve any other item that may be compensable under the Michigan Uniform Condemnation Procedures Act or any other law.

See Addendum B – Miscellaneous Terms and Conditions

The authorized MIDD Representative's signature below under **VERIFICATION OF OFFER** is for the verification that the Good Faith Offer for Real Property Only has been made to you pursuant to the Michigan Uniform Condemnation Procedures Act. Your receipt or rejection of this offer does not prejudice your right to have the final amount determined through condemnation proceedings in the event you do not accept the offer.

Your signature below under **ACCEPTANCE OF OFFER** is intended to act as acceptance of the terms hereof by Owners, and shall result in a binding agreement of sale of the Property ("Final Agreement") effective upon the delivery of your signature below to MIDD. The Final Agreement will be deemed a resolution of any and all claims that you may have had under the Michigan Condemnation Procedures Act related to condemnation of the Real Property only, unless this agreement is amended in a writing signed by all parties to the Final Agreement.

I CERTIFY THAT, on this ____ day of _____, 20__ a copy of this document and a copy of the written appraisal showing the basis for the amount established as estimated just compensation were delivered to me by the undersigned authorized MIDD Representative.

Owner or Representative

VERIFICATION OF OFFER:

Dated: _____

By: Candice S. Miller
Its: Authorized MIDD Representative

ACCEPTANCE OF OFFER:

Dated: _____

By: Jerome Albu

Dated: _____

By: Susan E. Albu

MIDD:

Dated: _____

By: Candice S. Miller
Its: Authorized MIDD Representative

ADDENDUM A

LEGAL DESCRIPTION

The following described premises situated in the City of Fraser, County of Macomb, and State of Michigan, and being more particularly described as follows:

Lot 1, WHISPERING PINES SUBDIVISION, according to the plat thereof as recorded in Liber 124, Pages 29 and 30 of Plats, Macomb County Records.

Commonly known as: 34980 Eberlein, Fraser, Michigan
Parcel ID No. 11-31-102-010

ADDENDUM B

MISCELLANEOUS TERMS AND CONDITIONS

1. **MUCPA.** This Good Faith Offer for Real Property only is made to Owners by MIDDD pursuant to the Michigan Condemnation Procedures Act. If you believe that this Good Faith Offer does not include one or more items of compensable damage to the Real Property for which you intend to claim a right to just compensation, the Owners shall, for each item, file a written claim with MIDDD within ninety (90) days of the date of this offer. This claim shall provide sufficient information and detail to enable MIDDD to evaluate the validity of the claim and to determine its value. MCL 213.23 requires that the amount of compensation made and determined for the taking of an individual's principal residence shall not be less than 125% of that person's fair market value. This Good Faith Offer is intended to pay the Property owner 125% of the fair market value of the property, but does not include or resolve any other item that may be compensable under the Michigan Uniform Condemnation Procedures Act or any other law.

If the Owners and MIDDD are unable to agree upon the terms of the acquisition of the Property within ninety (90) days after receiving this Good Faith Offer to purchase the Property, MIDDD may file a complaint for the acquisition of property in the Macomb County Circuit Court.

2. **PROPERTY TAX PRORATION AND DISCHARGE OF LIENS.** MIDDD will act as an escrow agent in closing this sale. All taxes, assessments and liens which have become an encumbrance upon the Property, whether recorded or not recorded, at the date of this agreement, shall be paid by the Owners. For fee takings, current taxes, if any, shall be prorated and adjusted as of the date of closing in accordance with DUE date basis of the municipality or taxing unit in which the Property is located. For purposes of this agreement, all real property taxes are to be considered paid in advance. Interest, rents and water bill shall be prorated and adjusted as of the date of closing. MIDDD will be responsible for the payment for any and all transfer taxes and recording fees applicable to close this transaction.

Furthermore, the Owners understand that MIDDD has acquired this fee simple interest with the expectation that it will use it to the fullest extent for demolition purposes and will have first priority over all other liens and encumbrances on the Property. The Owners' lender(s) and/or lien holders may have priority over the claim of any funds the Owners may receive as a result of this purchase and the MIDDD reserves the right to deduct and distribute the just compensation funds in whole or in part to Owners' mortgage lender(s), and/or lien holders, as well as any taxing authorities who have a lien on the property in the amount necessary to discharge or subordinate their liens on the Property.

3. **NOTICE OF RESERVATION OF RIGHTS.** MIDDD gives notice that it reserves its rights to bring a federal or state cost recovery action against the present owners, or any other potentially responsible parties, arising out of a release of hazardous substances on or under the Property.

4. **ENTIRE AGREEMENT.** Upon the signature of all of the necessary parties, this Offer and Acceptance shall be deemed a Final Agreement between the parties with respect to the subject matter and may not be contradicted by evidence of prior, contemporaneous, or subsequent oral agreements of the parties. This Agreement shall only be modified or amended by a writing signed by each party to be charged.

5. **APPLICABLE LAWS.** This Agreement is governed by the laws of the State of Michigan. Any actions concerning the Offer or a Final Agreement must be filed in the Courts having jurisdiction in Macomb County, Michigan.

6. **COUNTERPARTS AND COPIES.** The Final Agreement may be executed in counterparts, each of which shall be deemed an original but together they shall constitute one and the same instrument, and emailed and/or facsimile signatures shall be treated the same as the original signatures for all purposes.

7. **NOTICE.** All notices and other communications under this Offer or Final Agreement under an eventual Final Agreement, shall be in writing and shall be effective (a) upon actual delivery if presented personally or if sent by certified or registered mail, postage prepaid, return receipt requested, and (b) five (5) business days following the deposit first class in the United States mail, to the following addresses:

OWNERS: Jerome & Susan E. Albu
c/o Frank A. Guido, Esq.
27056 Joy Road
Redford, MI 48239

MIDDD: Benjamin J. Aloia, Esq.
Aloia & Associates, P.C.
48 S. Main Street, Suite 3
Mount Clemens, MI 48043

and

Candice S. Miller
Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036

8. **EFFECTIVE DATE.** The Effective Date of any Offer shall be effective as of the date signed by the Authorized Representative of the MIDDD. The effective date of the Acceptance of any Offer is the date signed by the Owners and required signatories of this Agreement.

9. **SUCCESSORS AND ASSIGNS.** This Agreement binds and benefits the parties' successors and assigns to the Property. The Owners may not assign their interest in this Offer or the Final Agreement unless they receive permission from the MIDDD in writing.

RIGHT OF ENTRY, POSSESSION AND USE AGREEMENT

This RIGHT OF ENTRY, POSSESSION AND USE AGREEMENT (the "Agreement") is executed on the _____ day of March, 2017, by JEROME ALBU and SUSAN E. ALBU, husband and wife, whose address is 34980 Eberlein, Fraser, Michigan 48026 (hereafter collectively referred to as the "Grantors"), in favor of the MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT, whose address is 21777 Dunham Rd, Clinton Township, Michigan 48036 (the "MIDDD"), effectively granting the MIDDD, its agents, representatives and contractors, the right to enter, possess, and use the entirety of the real property legally described in **Addendum A** and more commonly known as 34980 Eberlein, Fraser, Michigan 48026 (the "Property") for the purpose of demolishing the residence located on the Property, and for any and all purposes in conjunction with the MIDDD's construction work on the Macomb Interceptor Drain ("Project"). The rights granted pursuant to this Agreement are limited to the Property and no other land owned by the Grantors. (The Grantors and the MIDDD are sometimes referred to as the "Parties" herein.)

At the request of the MIDDD, the Grantors are granting to the MIDDD the right to enter, possess and use the Property to allow the Project to proceed immediately and without delay, subject to the following conditions:

1. It is understood and agreed that the grant of the right to enter, possess and use the Property by the Grantors to the MIDDD pursuant to this Agreement does not in any manner foreclose or constitute a waiver of the Grantors' right to seek just compensation, interest, and reimbursements of expert fees, costs and attorney fees via a condemnation action pursuant to the Uniform Condemnation Procedures Act, MCLA 213.51, et seq., ("MUCPA"), in the event the Grantors and the MIDDD cannot agree upon the amount of the just compensation to be paid by the MIDDD to Grantors. If the MIDDD and the Grantors are unable to reach an agreement as to the just compensation amount to be paid by MIDDD to the Grantors, then within 90 days from the date that this Agreement is executed, the MIDDD shall file a condemnation action in the Macomb County Circuit Court to acquire the Property from the Grantors pursuant to the MUCPA. Within 42 days of the filing of the condemnation complaint, the Grantors and the MIDDD shall enter an Order Waiving Necessity, Vesting Title and Paying Estimated Just Compensation, which shall incorporate this Agreement by reference, and the MIDDD shall pay the Estimated Just Compensation to the Grantors within thirty (30) days from the date of the entry of the Order.
2. In consideration of the execution of this Agreement by the Grantors and the granting of the rights herein, it is agreed by MIDDD that statutory interest, pursuant to MCLA 213.65, shall

commence on the date of execution of this Agreement on the total payment or award ultimately received by Grantors.

3. In consideration of the agreements of the MIDDD as contained herein, the Grantors hereby specifically acknowledge that there is a public necessity for the Project and the Grantors hereby specifically waive any right to challenge the public necessity of the Project in the future.

Grantors specifically understand and acknowledge that the residence located on the Property has been determined by the City of Fraser to be in a dangerous and unsafe condition (See the enclosed letter from the Fraser Building & Code Enforcement Department). Grantors further understand and acknowledge that as of the date of this Agreement, the City of Fraser has declared the Property to be unsafe, and it remains in a dangerous and unsafe condition according to the City of Fraser, and that it should be demolished as soon as possible.

In consideration of the agreements of the Grantors herein, and pursuant to MCL 213.66, MIDDD agrees to reimburse the Grantors' experts' fees and attorneys' fees, whether the acquisition is accomplished voluntarily or by eminent domain. The attorneys' fees shall be no greater than one-third of the difference between the MIDDD's first written good faith offer and the ultimate payment or award of just compensation received by the Grantors, including interest, unless the MIDDD and the Grantors agree to a different amount of reimbursement for attorneys' fees.

4. This Agreement shall become effective when fully executed by the Grantors and the MIDDD. Provided, however, in any event, if executed by Grantors, the MIDDD shall execute this Agreement within five (5) days of the date on which the Grantors have executed this Agreement, or on the next regularly scheduled Board meeting after the MIDDD receives the originally signed version of this Agreement from the Grantors, whichever is later.
5. To the extent permitted by law, and for the duration of this Right of Entry only, the MIDDD agrees to indemnify and to hold the Grantors, their members, managers and employees harmless against any losses, costs, expenses, damage, liabilities, or claims, whether groundless or not, arising out of bodily injury, sickness or disease, including death resulting at the time therefrom, which may be sustained or claimed by any person or persons, or destruction of any property, (including the loss of use thereof) based on any act or omission, negligent or otherwise, of the MIDDD or anyone else acting on its behalf, relating to any activity, construction, operation, uses and/or maintenance on the Property except that the MIDDD shall not be responsible for indemnification of a Grantor for damages caused by or resulting from the Grantors' negligence.
6. The MIDDD shall have the exclusive option to record this Agreement in the Macomb County Register of Deeds Office. Upon recording, a copy of the recorded document shall be provided to Grantors showing the date, liber and page of recording.

7. All parties hereto have knowingly, freely, voluntarily, and with the advice and explanation of counsel, executed this Agreement. In addition, all parties hereto acknowledge that they have read this Agreement in full and agree with its contents.
8. This Agreement contains the entire agreement between the parties hereto, and the terms of this Covenant are contractual and not a mere recital. This Agreement incorporates all prior agreements and promises between the parties, whether written or oral.
9. This Agreement is not assignable by either party; however, this Agreement shall be binding upon, and the benefits hereof shall inure to the parties hereto and their successors in interest.
10. There are no intended third-party beneficiaries to this Agreement.
11. If any provision of this Agreement is determined by a court of competent jurisdiction to be invalid or unenforceable, the remaining portion of this Agreement shall nonetheless remain in full force and effect.
12. This Agreement cannot be changed orally, and no executory agreement shall be effective to waive, change, modify, or discharge it, in whole or in part, unless such executory agreement is in writing and is signed by the Parties against whom enforcement of any waiver, change, modification, or discharge is sought.
13. This Agreement shall, in all respects, be governed by, and construed in accordance with the laws of the State of Michigan and venue for any dispute shall lie in Macomb County, Michigan.
15. This Agreement shall only be effective upon the execution of this Agreement by Grantors and MIDDD.

(SIGNATURE PAGES FOLLOW)

GRANTORS:

JEROME ALBU

SUSAN E. ALBU

STATE OF MICHIGAN)
)ss.
COUNTY OF _____)

On this ____ day of March, 2017, before me a Notary Public, personally appeared JEROME ALBU and SUSAN E. ALBU, husband and wife, known to me to be the persons who executed the within instrument and who acknowledged the same to be their free act and deed.

Notary Public
State of Michigan, County of _____
My Commission Expires: _____
Acting in the County of _____

MIDDD:

MACOMB INTERCEPTOR DRAIN DRAINAGE
DISTRICT

By: Candice S. Miller
Its: Macomb County Public Works Commissioner
and Authorized Signer

STATE OF MICHIGAN)
)ss.
COUNTY OF MACOMB)

On this ____ day of March, 2017, before me a Notary Public, personally appeared Candice S. Miller, Macomb County Public Works Commissioner and Authorized Signer of MACOMB COUNTY DRAIN DRAINAGE DISTRICT, known to me to be the person who executed the within instrument and who acknowledged the same to be her free act and deed.

Notary Public
State of Michigan, County of _____
My Commission Expires: _____
Acting in the County of Macomb

Drafted by and after recording return to:
Benjamin J. Aloia, Esq.
Aloia & Associates, P.C.
48 S. Main Street, Suite 3
Mount Clemens, MI 48043

ADDENDUM A

LEGAL DESCRIPTION

The following described premises situated in the City of Fraser, County of Macomb, and State of Michigan, and being more particularly described as follows:

Lot 1, WHISPERING PINES SUBDIVISION, according to the plat thereof as recorded in Liber 124, Pages 29 and 30 of Plats, Macomb County Records.

Commonly known as: 34980 Eberlein, Fraser, Michigan
Parcel ID No. 11-31-102-010



City of Fraser

Building & Code Enforcement Department

January 21, 2017

Federico Raimondi
15370 Fifteen Mile Rd.
Fraser, MI 48026

Re: Property Number 11-31-100-002 at 15370 15 Mile Road

After inspection by the Fraser Building Department and our contracted engineering firm, AEW, Inc., of the dwelling located at the referenced site, it has been determined that it is in a dangerous and unsafe condition. This was a result of the damage that took place as a result of the sinkhole that started on December 24, 2016 and continued to expand on the days following. Fraser Ordinance, Article IX, section 6-151 defines a dangerous building as one where "...any portion has been damaged by fire, wind, flood, or by any other cause in such a manner that the structural strength or stability is appreciably less than it was before such catastrophe..." and where "...the building or structure or any part, because of dilapidation, deterioration, decay, faulty construction, or because of the removal of movement of some portion of the ground necessary for the purpose of supporting such building or portion thereof, or for other reason, is likely to partially or completely collapse, or some portion of the foundation or underpinning is likely to fall or give way." Also, if "...any portion or member or appurtenance is likely to fall or to become detached or dislodges, or to collapse and thereby injure persons or damage property," it would be considered dangerous.

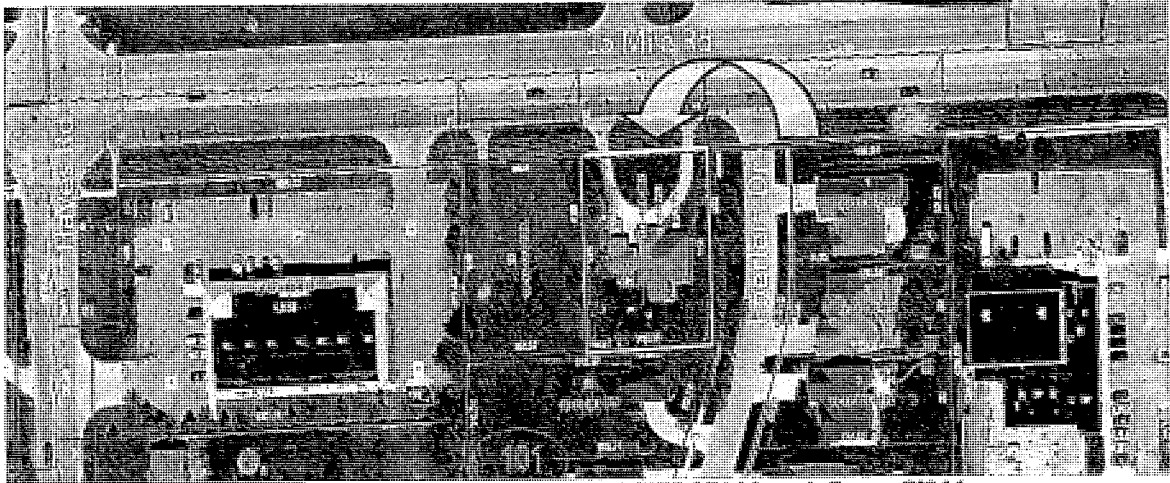
Until the structure is considered safe by this department and the proper representatives from AEW, Inc., it must not be entered by any other individuals. It was tagged by me, as such, on December 27, 2016. Although Fraser Ordinance Section 6-152 states that "...No person shall keep or maintain any building or part thereof which is a dangerous building," the emergency situation of the collapsed interceptor, and ground movement, warrants that we will not enforce the demolition or removal of this condition immediately, nor will we be having an immediate hearing to show cause why this building should not be removed.

If you have any questions, please call the Building Department at (586) 293-3100, extension 154.

Respectfully,

Randy A. Warunek
Building Official

**Macomb Interceptor Drain Drainage District
15 Mile Sinkhole-15 Mile & Eberlein Dr.
City of Fraser, Macomb County, MI
15370 15 Mile Rd., Fraser, MI 48026**



SUBJECT PARCEL – AERIAL VIEW PHOTO EXTRACTED VIA Macomb County GIS Maps

OWNER OF RECORD: Federico & Lillian Raimondi
15370 15 Mile Rd.
Fraser, MI 48026

PROPERTY LOCATION: 15370 15 Mile Rd., Fraser, MI 48026

SIDWELL #: 11-31-100-002

INTEREST APPRAISED: Fee Simple- Total Acquisition

CLIENT: Macomb Interceptor Drain Drainage District
C/O Benjamin J. Aloia
Aloia & Associates
48 S. Main St., Suite 3
Mt. Clemens, MI 48043

DATE OF VALUATION: December 24, 2016

DATE OF REPORT: February 5, 2017

APPRAISED BY: R.S. Thomas & Associates, Inc./*Harold Blake Co*
Andrew Boettcher
33620 Five Mile Road
Livonia, MI 48154
(734)422-5353
www.rsthbc-appraisers.com

February 5, 2017

Macomb Interceptor Drain Drainage District
C/O Benjamin J. Aloia
Aloia & Associates
48 S. Main St., Suite 3
Mt. Clemens, MI 48043

Re: Macomb Interceptor Drain Drainage District
15 Mile Sinkhole-15 Mile & Eberlein Dr.
City of Fraser, Macomb County, MI
15370 15 Mile Rd., Fraser, MI 48026
Parcel ID#: 11-31-100-002

Dear Mr. Aloia:

Pursuant to your request, we have appraised the above-captioned parcel of real estate. It is our understanding this appraisal is to be used for a determination of just compensation relative to the acquisition of the real estate involving a single family residence as identified above. Macomb County Drain Drainage District is proposing to acquire the entire property due to a sinkhole that developed on 15 Mile Road between Hayes and Utica Roads resulting in physical damage to the subject property. The purpose of this real estate appraisal is to estimate the amount of just compensation required for the proposed acquisition.

This appraisal uses the legal definitions consistent with eminent domain proceedings. The date of valuation is the date of loss or December 24, 2016 representing a retrospective appraisal as defined by the Uniform Standards of Professional Appraisal Practice. Damage to the site and residential improvements prohibited entry to the site or residence. The property was viewed from the exterior only on February 1, 2017. Michigan eminent domain law requires that the value estimated herein follow certain legal definitions for fair market value, highest and best use, effect of total takings and other related appraisal issues.



33620 FIVE MILE ROAD • LIVONIA, MI 48154

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orders@rsthbc-appraisers.com



Based on the highest and best use of the subject property as of the date of value, and representative of typical market participants, the appraiser has utilized the sales approach to value. The cost approach and income approach have been considered within the scope of the assignment, however, found not applicable.

The subject of this appraisal is a 1,644 square foot single family residence situated on a platted site on the south side of 15 Mile Road, east of Hayes Road, Fraser, Michigan. The site provides approximately 110 feet of frontage on 15 Mile Road and a depth of approximately 140 feet for a total site area of approximately 15,372 square feet or 0.353 acres.

The purpose of this appraisal is to identify the market value of the real estate regarding the proposed acquisition. The function of the report is to utilize the results for Macomb County Drain Drainage District to purchase the subject property in total acquisition. However, the appraisal assignment is not based on a requested minimum valuation or a specific valuation. This appraisal is intended to and presented in a format in accordance with the Uniform Standards of Professional Appraisal Practice (USPAP). The intended use is for the private use of the client to assist in determining just compensation for the proposed acquisition. The report is not intended for any other use including but not limited to tax appeal or lending.

After the determination of the highest and best use of subject property and the identification of any applicable assumptions and hypothetical conditions pertaining to the site, we will be viewing subject property in its present single family use. Within the sales approach consideration is given to market recognized features, as well as the current economic climate within the region and State of Michigan. We have considered the market conditions for housing within this location and as of the date of valuation. The client and intended user of this report is Mr. Aloia and those authorized representatives of Macomb Interceptor Drain Drainage District. This report is solely for these users and this use. Any other use may result in a misunderstanding of this appraisal and the conclusions.

The jurisdictional definitions of fair market value and highest and best use, as required by Michigan Statute, have been applied in this appraisal. Per Uniform Standards of Professional Appraisal Practice (USPAP) Section 2-2(a), this report is considered an Appraisal Report. There is additional data maintained within our work file.

This appraisal estimates the value of the subject twice; "before" the proposed acquisition was contemplated and then "after" the proposed acquisition of the real estate. The difference between these two values is the estimated just compensation for the proposed acquisition. This being a total acquisition of the real property, the after value will be zero.

The following summarizes our estimate of just compensation.

Estimated Value – Before	\$160,000
Estimated Value – After	<u>\$0,000</u>
Decrease in Value	\$160,000

Total Estimated Just Compensation \$160,000.00

We have had contact with the owner via telephone to discuss the physical characteristics of the residence. Although various sources may illustrate differences in square footage or acreage, we have utilized the most recent information for valuation of the property. Should additional information become available, we reserve the right to re-analyze this appraisal and its conclusions.

We have no interest in the property and our fee is in no way contingent upon the value reported herein. We have not performed services as an appraiser regarding the property that is the subject of this report within the three-year period immediately preceding acceptance of this assignment. My analyses, opinions, and conclusions were developed and this report is intended to conform with the Uniform Standards of Professional Appraisal Practice of the Appraisal Foundation and the Principles of Appraisal Practice and Code of Ethics of the International Right of Way Association. Appraisers are required to be licensed/certified and are regulated by the Department of Licensing and Regulatory Affairs, Post Office Box 30018, Lansing Michigan 48909.

Respectfully submitted,

R.S. Thomas & Associates, Inc. / *Harold Blake Co.*



Andrew Boettcher

♦ Michigan Certified General Real Estate Appraiser - Permanent I.D. #1201003946

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT

OFFER TO PURCHASE

and

STATEMENT OF COMPENSATION FOR REAL PROPERTY ONLY

To: Federico and Lillian Raimondi
34950 Hidden Pine Drive, Apt. 103
Fraser, MI 48026

Property Address: 15370 15 Mile Road
Fraser, MI 48026

The Macomb Interceptor Drain Drainage District ("MIDDD"), hereby offers the owners and other signed parties ("Owners") who may have an interest in the real property legally described in **Addendum A** ("Property"), to acquire the Property for the total sum of **Two Hundred Thousand and 00/100 (\$200,000.00) Dollars**, which has been estimated to be just compensation based on the fair market value of the Property, subject to the terms and conditions stated herein as follows:

GOOD FAITH OFFER:

- (a) Identification of the real property to be acquired:

See legal description on **Addendum A** attached hereto and incorporated as part of this document by reference.

- (b) Type of interest being acquired: FEE SIMPLE PURCHASE (Total Take Acquisition)
- (c) Identification of improvements including fixtures which are to be acquired, if any:

-
- (d) Good Faith Offer amount breakdown:

1. LAND OR IMPROVEMENTS	\$ 160,000.00
2. 25% INCREASE PURSUANT TO MCL 213.23(5)	\$ 40,000.00
3. OTHER	\$
4. TOTAL	\$ 200,000.00

(e) Additional Terms and Conditions:

MCL 213.23 requires that the amount of compensation made and determined for the taking of an individual's principal residence shall not be less than 125% of that person's fair market value. This Good Faith Offer is intended to pay the Property owner 125% of the fair market value of the property, but does not include or resolve any other item that may be compensable under the Michigan Uniform Condemnation Procedures Act or any other law.

See Addendum B – Miscellaneous Terms and Conditions

The authorized MIDDD Representative's signature below under **VERIFICATION OF OFFER** is for the verification that the Good Faith Offer for Real Property Only has been made to you pursuant to the Michigan Uniform Condemnation Procedures Act. Your receipt or rejection of this offer does not prejudice your right to have the final amount determined through condemnation proceedings in the event you do not accept the offer.

Your signature below under **ACCEPTANCE OF OFFER** is intended to act as acceptance of the terms hereof by Owners, and shall result in a binding agreement of sale of the Property ("Final Agreement") effective upon the delivery of your signature below to MIDDD. The Final Agreement will be deemed a resolution of any and all claims that you may have had under the Michigan Condemnation Procedures Act related to condemnation of the Real Property only, unless this agreement is amended in a writing signed by all parties to the Final Agreement.

I CERTIFY THAT, on this ____ day of _____, 20____ a copy of this document and a copy of the written appraisal showing the basis for the amount established as estimated just compensation were delivered to me by the undersigned authorized MIDDD Representative.

Owner or Representative

VERIFICATION OF OFFER:

Dated: _____

By: Candice S. Miller
Its: Authorized MIDD Representative

ACCEPTANCE OF OFFER:

Dated: _____

By: Federico Raimondi

Dated: _____

By: Lillian Raimondi

MIDD:

Dated: _____

By: Candice S. Miller
Its: Authorized MIDD Representative

ADDENDUM A

LEGAL DESCRIPTION

A parcel of land located in and being a part of the Northwest $\frac{1}{4}$ of Section 31, Town 2 North, Range 13 East, City of Fraser, County of Macomb, State of Michigan, and being more particularly described as follows: Commencing at the Northwest corner of Section 31; thence North $89^{\circ}23'30''$ East 472.24 feet to the point of beginning; thence North $89^{\circ}23'30''$ East 109.80 feet; thence South $00^{\circ}01'30''$ East 200.00 feet; thence South $89^{\circ}23'30''$ West 109.80 feet; thence North $00^{\circ}01'30''$ West 200.00 feet to the point of beginning, except the North 60.00 feet for road purposes, containing 0.504 acres.

Commonly known as: 15370 15 Mile Road, Fraser, Michigan
Parcel ID No. 11-31-100-002

ADDENDUM B

MISCELLANEOUS TERMS AND CONDITIONS

1. **MUCPA.** This Good Faith Offer for Real Property only is made to Owners by MIDDD pursuant to the Michigan Condemnation Procedures Act. If you believe that this Good Faith Offer does not include one or more items of compensable damage to the Real Property for which you intend to claim a right to just compensation, the Owners shall, for each item, file a written claim with MIDDD within ninety (90) days of the date of this offer. This claim shall provide sufficient information and detail to enable MIDDD to evaluate the validity of the claim and to determine its value. MCL 213.23 requires that the amount of compensation made and determined for the taking of an individual's principal residence shall not be less than 125% of that person's fair market value. This Good Faith Offer is intended to pay the Property owner 125% of the fair market value of the property, but does not include or resolve any other item that may be compensable under the Michigan Uniform Condemnation Procedures Act or any other law.

If the Owners and MIDDD are unable to agree upon the terms of the acquisition of the Property within ninety (90) days after receiving this Good Faith Offer to purchase the Property, MIDDD may file a complaint for the acquisition of property in the Macomb County Circuit Court.

2. **PROPERTY TAX PRORATION AND DISCHARGE OF LIENS.** MIDDD will act as an escrow agent in closing this sale. All taxes, assessments and liens which have become an encumbrance upon the Property, whether recorded or not recorded, at the date of this agreement, shall be paid by the Owners. For fee takings, current taxes, if any, shall be prorated and adjusted as of the date of closing in accordance with DUE date basis of the municipality or taxing unit in which the Property is located. For purposes of this agreement, all real property taxes are to be considered paid in advance. Interest, rents and water bill shall be prorated and adjusted as of the date of closing. MIDDD will be responsible for the payment for any and all transfer taxes and recording fees applicable to close this transaction.

Furthermore, the Owners understand that MIDDD has acquired this fee simple interest with the expectation that it will use it to the fullest extent for demolition purposes and will have first priority over all other liens and encumbrances on the Property. The Owners' lender(s) and/or lien holders may have priority over the claim of any funds the Owners may receive as a result of this purchase and the MIDDD reserves the right to deduct and distribute the just compensation funds in whole or in part to Owners' mortgage lender(s), and/or lien holders, as well as any taxing authorities who have a lien on the property in the amount necessary to discharge or subordinate their liens on the Property.

3. **NOTICE OF RESERVATION OF RIGHTS.** MIDDD gives notice that it reserves its rights to bring a federal or state cost recovery action against the present owners, or any other potentially responsible parties, arising out of a release of hazardous substances on or under the Property.

4. **ENTIRE AGREEMENT.** Upon the signature of all of the necessary parties, this Offer and Acceptance shall be deemed a Final Agreement between the parties with respect to the subject matter and may not be contradicted by evidence of prior, contemporaneous, or subsequent oral agreements of the parties. This Agreement shall only be modified or amended by a writing signed by each party to be charged.

5. **APPLICABLE LAWS.** This Agreement is governed by the laws of the State of Michigan. Any actions concerning the Offer or a Final Agreement must be filed in the Courts having jurisdiction in Macomb County, Michigan.

6. **COUNTERPARTS AND COPIES.** The Final Agreement may be executed in counterparts, each of which shall be deemed an original but together they shall constitute one and the same instrument, and emailed and/or facsimile signatures shall be treated the same as the original signatures for all purposes.

7. **NOTICE.** All notices and other communications under this Offer or Final Agreement under an eventual Final Agreement, shall be in writing and shall be effective (a) upon actual delivery if presented personally or if sent by certified or registered mail, postage prepaid, return receipt requested, and (b) five (5) business days following the deposit first class in the United States mail, to the following addresses:

OWNERS: Federico & Lillian Raimondi
34950 Hidden Pine Drive, Apt. 103
Fraser, MI 48026

MIDDD: Benjamin J. Aloia, Esq.
Aloia & Associates, P.C.
48 S. Main Street, Suite 3
Mount Clemens, MI 48043

and

Candice S. Miller
Macomb County Public Works Commissioner
21777 Dunham Road
Clinton Township, MI 48036

8. **EFFECTIVE DATE.** The Effective Date of any Offer shall be effective as of the date signed by the Authorized Representative of the MIDDD. The effective date of the Acceptance of any Offer is the date signed by the Owners and required signatories of this Agreement.

9. **SUCCESSORS AND ASSIGNS.** This Agreement binds and benefits the parties' successors and assigns to the Property. The Owners may not assign their interest in this Offer or the Final Agreement unless they receive permission from the MIDDD in writing.

RIGHT OF ENTRY, POSSESSION AND USE AGREEMENT

This RIGHT OF ENTRY, POSSESSION AND USE AGREEMENT (the "Agreement") is executed on the _____ day of March, 2017, by FEDERICO AND LILLIAN RAIMONDI, husband and wife, whose address is 34950 Hidden Pine Drive, Apt. 103, Fraser, Michigan 48026 (hereafter collectively referred to as the "Grantors"), in favor of the MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT, whose address is 21777 Dunham Rd, Clinton Township, Michigan 48036 (the "MIDDD"), effectively granting the MIDDD, its agents, representatives and contractors, the right to enter, possess, and use the entirety of the real property legally described in **Addendum A** and more commonly known as 15370 15 Mile Road, Fraser, Michigan 48026 (the "Property") for the purpose of demolishing the residence located on the Property, and for any and all purposes in conjunction with the MIDDD's construction work on the Macomb Interceptor Drain ("Project"). The rights granted pursuant to this Agreement are limited to the Property and no other land owned by the Grantors. (The Grantors and the MIDDD are sometimes referred to as the "Parties" herein.)

At the request of the MIDDD, the Grantors are granting to the MIDDD the right to enter, possess and use the Property to allow the Project to proceed immediately and without delay, subject to the following conditions:

1. It is understood and agreed that the grant of the right to enter, possess and use the Property by the Grantors to the MIDDD pursuant to this Agreement does not in any manner foreclose or constitute a waiver of the Grantors' right to seek just compensation, interest, and reimbursements of expert fees, costs and attorney fees via a condemnation action pursuant to the Uniform Condemnation Procedures Act, MCLA 213.51, et seq., ("MUCPA"), in the event the Grantors and the MIDDD cannot agree upon the amount of the just compensation to be paid by the MIDDD to Grantors. If the MIDDD and the Grantors are unable to reach an agreement as to the just compensation amount to be paid by MIDDD to the Grantors, then within 90 days from the date that this Agreement is executed, the MIDDD shall file a condemnation action in the Macomb County Circuit Court to acquire the Property from the Grantors pursuant to the MUCPA. Within 42 days of the filing of the condemnation complaint, the Grantors and the MIDDD shall enter an Order Waiving Necessity, Vesting Title and Paying Estimated Just Compensation, which shall incorporate this Agreement by reference, and the MIDDD shall pay the Estimated Just Compensation to the Grantors within thirty (30) days from the date of the entry of the Order.
2. In consideration of the execution of this Agreement by the Grantors and the granting of the rights herein, it is agreed by MIDDD that statutory interest, pursuant to MCLA 213.65, shall

commence on the date of execution of this Agreement on the total payment or award ultimately received by Grantors.

3. In consideration of the agreements of the MIDDD as contained herein, the Grantors hereby specifically acknowledge that there is a public necessity for the Project and the Grantors hereby specifically waive any right to challenge the public necessity of the Project in the future.

Grantors specifically understand and acknowledge that the residence located on the Property has been determined by the City of Fraser to be in a dangerous and unsafe condition (See the enclosed letter from the Fraser Building & Code Enforcement Department). Grantors further understand and acknowledge that as of the date of this Agreement, the City of Fraser has declared the Property to be unsafe, and it remains in a dangerous and unsafe condition according to the City of Fraser, and that it should be demolished as soon as possible.

In consideration of the agreements of the Grantors herein, and pursuant to MCL 213.66, MIDDD agrees to reimburse the Grantors' experts' fees and attorneys' fees, whether the acquisition is accomplished voluntarily or by eminent domain. The attorneys' fees shall be no greater than one-third of the difference between the MIDDD's first written good faith offer and the ultimate payment or award of just compensation received by the Grantors, including interest, unless the MIDDD and the Grantors agree to a different amount of reimbursement for attorneys' fees.

4. This Agreement shall become effective when fully executed by the Grantors and the MIDDD. Provided, however, in any event, if executed by Grantors, the MIDDD shall execute this Agreement within five (5) days of the date on which the Grantors have executed this Agreement, or on the next regularly scheduled Board meeting after the MIDDD receives the originally signed version of this Agreement from the Grantors, whichever is later.
5. To the extent permitted by law, and for the duration of this Right of Entry only, the MIDDD agrees to indemnify and to hold the Grantors, their members, managers and employees harmless against any losses, costs, expenses, damage, liabilities, or claims, whether groundless or not, arising out of bodily injury, sickness or disease, including death resulting at the time therefrom, which may be sustained or claimed by any person or persons, or destruction of any property, (including the loss of use thereof) based on any act or omission, negligent or otherwise, of the MIDDD or anyone else acting on its behalf, relating to any activity, construction, operation, uses and/or maintenance on the Property except that the MIDDD shall not be responsible for indemnification of a Grantor for damages caused by or resulting from the Grantors' negligence.
6. The MIDDD shall have the exclusive option to record this Agreement in the Macomb County Register of Deeds Office. Upon recording, a copy of the recorded document shall be provided to Grantors showing the date, liber and page of recording.

7. All parties hereto have knowingly, freely, voluntarily, and with the advice and explanation of counsel, executed this Agreement. In addition, all parties hereto acknowledge that they have read this Agreement in full and agree with its contents.
8. This Agreement contains the entire agreement between the parties hereto, and the terms of this Covenant are contractual and not a mere recital. This Agreement incorporates all prior agreements and promises between the parties, whether written or oral.
9. This Agreement is not assignable by either party; however, this Agreement shall be binding upon, and the benefits hereof shall inure to the parties hereto and their successors in interest.
10. There are no intended third-party beneficiaries to this Agreement.
11. If any provision of this Agreement is determined by a court of competent jurisdiction to be invalid or unenforceable, the remaining portion of this Agreement shall nonetheless remain in full force and effect.
12. This Agreement cannot be changed orally, and no executory agreement shall be effective to waive, change, modify, or discharge it, in whole or in part, unless such executory agreement is in writing and is signed by the Parties against whom enforcement of any waiver, change, modification, or discharge is sought.
13. This Agreement shall, in all respects, be governed by, and construed in accordance with the laws of the State of Michigan and venue for any dispute shall lie in Macomb County, Michigan.
15. This Agreement shall only be effective upon the execution of this Agreement by Grantors and MIDD.

(SIGNATURE PAGES FOLLOW)

GRANTORS:

FEDERICO RAIMONDI

LILLIAN RAIMONDI

STATE OF MICHIGAN)
)ss.
COUNTY OF _____)

On this ____ day of March, 2017, before me a Notary Public, personally appeared FEDERICO AND LILLIAN RAIMONDI, husband and wife, known to me to be the persons who executed the within instrument and who acknowledged the same to be their free act and deed.

Notary Public
State of Michigan, County of _____
My Commission Expires: _____
Acting in the County of _____

MIDDD:

MACOMB INTERCEPTOR DRAIN DRAINAGE
DISTRICT

By: Candice S. Miller
Its: Macomb County Public Works Commissioner
and Authorized Signer

STATE OF MICHIGAN)
)ss.
COUNTY OF MACOMB)

On this ____ day of March, 2017, before me a Notary Public, personally appeared Candice S. Miller, Macomb County Public Works Commissioner and Authorized Signer of MACOMB COUNTY DRAIN DRAINAGE DISTRICT, known to me to be the person who executed the within instrument and who acknowledged the same to be her free act and deed.

Notary Public
State of Michigan, County of _____
My Commission Expires: _____
Acting in the County of Macomb

Drafted by and after recording return to:
Benjamin J. Aloia, Esq.
Aloia & Associates, P.C.
48 S. Main Street, Suite 3
Mount Clemens, MI 48043

ADDENDUM A

LEGAL DESCRIPTION

A parcel of land located in and being a part of the Northwest ¼ of Section 31, Town 2 North, Range 13 East, City of Fraser, County of Macomb, State of Michigan, and being more particularly described as follows: Commencing at the Northwest corner of Section 31; thence North 89°23'30" East 472.24 feet to the point of beginning; thence North 89°23'30" East 109.80 feet; thence South 00°01'30" East 200.00 feet; thence South 89°23'30" West 109.80 feet; thence North 00°01'30" West 200.00 feet to the point of beginning, except the North 60.00 feet for road purposes, containing 0.504 acres.

Commonly known as: 15370 15 Mile Road, Fraser, Michigan
Parcel ID No. 11-31-100-002

RESOLUTION NO. 2017-1

Resolution of the Macomb Interceptor Drain Drainage District Terminating Agency Agreement with Macomb County Wastewater Disposal District

A. The Macomb Interceptor Drain Drainage District (the "District") owns and operates the Macomb Interceptor Drain, a sanitary sewer system established as a country drain under Chapter 20 of the Michigan Drain Code (Act 40 Public Acts of Michigan, 1956, as amended)("Chapter 20");

B. On September 22, 2010, the District entered into an Agreement with the Macomb County Wastewater Disposal District ("MCWDD"), under which it purported to retain the MCWDD as "its agent for the purpose of operating, maintaining, and making improvements to the Macomb Interceptor Drain, as required..." (the "Agreement")

C. To the extent the Agreement has any current legal effect, the District wishes to terminate it.

IT IS THEREFORE RESOLVED that, effective immediately, the District hereby terminates the Agreement and any other agreements between the District, on the one hand, and the MCWDD, the Macomb County Department of Public Works, or the Macomb County Public Works Commissioner, on the other hand, related to operation or maintenance of the Drain;

IT IS FURTHER RESOLVED that, through her participation in this vote, Macomb County Public Works Commissioner Candice Miller acknowledges receipt of the notice of termination and waives any notice period stated in the Agreement.

YEAS:

NAYS:

ABSTENTIONS:

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of a resolution adopted at a regular meeting of the Drainage Board for the Macomb Interceptor Drain Drainage District, Macomb County, Michigan, held on March 13, 2017, the original of which is on file in the offices of the Public Works Commissioner of the County of Macomb.

I further certify that notice of the meeting was given in accordance with the Open Meetings Act.

Candice Miller, Chairperson

RESOLUTION NO. 2017-2

Resolution of the Macomb Interceptor Drain Drainage District Terminating December 28, 2016 Contract with Ric-Man Construction, Inc.

A. The Macomb Interceptor Drain Drainage District (the "District") owns and operates the Macomb Interceptor Drain, a sanitary sewer system established as a country drain under Chapter 20 of the Michigan Drain Code (Act 40 Public Acts of Michigan, 1956, as amended)("Chapter 20").

B. On December 24, 2016, a sinkhole condition developed on the 15 Mile Interceptor portion of the Drain (the "Sinkhole").

C. On December 28, 2016, Ric-Man Construction, Inc. ("Ric-Man") executed an agreement to perform repair work related to the Sinkhole (the "Agreement"). The Macomb County Wastewater Disposal District counter-signed the Agreement on behalf of the District.

D. The District reserves all rights, claims, defenses, and legal arguments regarding or arising out of the Agreement. This Resolution shall not be construed as a waiver of any of the foregoing or as a ratification of any action taken by the Macomb County Wastewater Disposal District.

E. The Agreement incorporates the Great Lakes Water Authority General Conditions. Paragraph 14.2 of the General Conditions provides that the District may terminate the Agreement for its convenience on five calendar days' written notice to Ric-Man.

F. The District has engaged in a thorough, competitive bidding process for remaining Sinkhole repair work, in compliance with Chapter 20, and intends to enter into a new agreement with the successful bidder. Without limitation, in order to facilitate the transition to the new agreement, the District wishes to terminate the Agreement under Article 14.2.

IT IS THEREFORE RESOLVED that the District shall terminate the Agreement for convenience under Paragraph 14.2.

IT IS FURTHER RESOLVED that the Chairperson of the District drainage board, Macomb County Public Works Commissioner Candice Miller, is directed and authorized to send the termination notice attached hereto and to take any and all actions required to effectuate the transition to the new agreement.

YEAS:

NAYS:

ABSTENTIONS:

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of a resolution adopted at a regular meeting of the Drainage Board for the Macomb Interceptor Drain Drainage District, Macomb County, Michigan, held on March 13, 2017, the original of which is on file in the offices of the Public Works Commissioner of the County of Macomb.

I further certify that notice of the meeting was given in accordance with the Open Meetings Act.

Candice Miller, Chairperson



PRINCIPALS

Daniel W. Mitchell
Nancy M. D. Faught
Keith D. McCormack
Jesse B. VanDeCreek
Roland N. Alix
Michael C. MacDonald
James F. Burton
Charles E. Hart

SENIOR ASSOCIATES

Gary J. Tressel
Randal L. Ford
William R. Davis
Dennis J. Benoit
Robert F. DeFrain
Thomas D. LaCross
Albert P. Mickalich
Timothy H. Sullivan

ASSOCIATES

Marvin A. Olane
Marshall J. Grazioli
Donna M. Martin
Colleen L. Hill-Stramsak
Bradley W. Shepler
Karyn M. Stickel
Jane M. Graham
Thomas G. Maxwell
Todd J. Sneathen
Aaron A. Uranga
Salvatore Conigliaro

HUBBELL, ROTH & CLARK, INC.

OFFICE: 555 Hulet Drive
Bloomfield Hills, MI 48302-0360
MAILING: PO Box 824
Bloomfield Hills, MI 48303-0824
PHONE: 248.454.6300
FAX: 248.454.6312
WEBSITE: www.hrcengr.com
EMAIL: info@hrcengr.com

February 21, 2017

Macomb County Public Works Office
21777 Dunham Road
Clinton Township, MI 48038

Attn: Candice Miller, Macomb County Public Works Commissioner

Re: Macomb Interceptor Drain Repair Project HRC Job No. 20170112
Proposal for Professional Engineering Services
SRF Project Plan, Loan Application & MDEQ Grant Application

Dear Ms. Miller:

Thank you for the opportunity to allow Hubbell, Roth & Clark, Inc. (HRC) to submit this proposal to provide Professional Engineering services for the subject project. We understand that the Office of the Macomb County Public Works (OMCPWC) would like to apply for a grant from the Michigan Department of Environmental Quality (MDEQ) and a low-interest loan through the State Revolving Fund (SRF) loan program. The MDEQ grant and SRF loan would be used to assist in financing the repair and replacement of failed and potentially unstable pipe within the Macomb Interceptor Drain (MID) segment PC-12A; a length of pipe the stretches from the ITC Corridor and 15 Mile Road to Clinton River Road and Garfield Road.

At your request, we have developed the following engineering services proposal for the preparation of an SRF Project Plan, Loan Application and MDEQ Grant Application for financial assistance for the construction of necessary repairs and improvements to the MID PCI-12A.

HRC has successfully worked with the MDEQ to secure grant funding for numerous counties and municipalities. As part of completing the grant application, HRC plans to participate in an information gathering meeting with the OMCPWC and the MDEQ to understand the parameters of the grant application submission protocol and collect the information needed to properly complete the grant application. HRC will then work with the MID Repair Project Team to determine a work plan for the project that can be used in the grant application and ensure all bidding documents for the project are set up to conform with state and federal financing requirements.

HRC successfully helped the OMCPWC secure SRF loan assistance from the MDEQ in 2011 for the MCWDD Sewerage Metering Facility Rehabilitation/Repair Project (SRF Project #5487-01) and proposes to follow the same logic and updated guidelines to fulfill the requirements of the Project Plan; giving the project the best chance at qualifying for SRF coverage. The following are highlights of the requirements of the Project Plan as set forth in the MDEQ's SRF Project Plan Preparation Guidance (Rev. 5/2016):

I. Introduction & Executive Summary

Summarize the content within the Project Plan for ease of review and understanding of the project concept prior to further examination.

II. Project Background

Describe the cultural resources and natural environment and define the land use, demographics, and existing facilities within of the project areas. Provide justification for the need of the project, the project need for the next 20 years, and the future environment without the proposed project.

III. Analysis of Alternatives

Identify the potential alternatives including a "no action" alternative, an alternative to provide for optimum performance of the existing facilities, and a regional alternative. Provide an analysis of the principal alternatives with a technical analysis, monetary evaluation, environmental assessment, implementability study, and review time for public comment.

IV. Selected Alternative

Address the relevant design parameters, explain the controlling factors that shaped the selected alternative, provide a schedule for design and construction of the project, and develop a cost summary for planning, design, and construction of the selected alternative. Provide documentation of authority to implement the proposed project for the selected alternative, submit documentation to reasonably support the projected useful life of the asset, and estimate the user charge over the useful life of the project.

V. Evaluation of Environmental Impacts

The Project Plan will identify direct, indirect, and cumulative impacts attributable to the construction and operation of the project.

VI. Mitigation

The Project Plan will describe project mitigation efforts where adverse impacts cannot be avoided, both direct and indirect, and short-term and long-term.

VII. Public Participation

A public hearing is required to adopt and submit an SRF Project Plan. HRC will ensure the draft Project Plan is made available to the public a minimum of 30 days prior to the date of the public hearing to comply with SRF rules and regulations. HRC will coordinate the public hearing, make the presentation to the public on the Project Plan, and collect all transcripts, recordings, and public comments to include in the final Project Plan.



Candice Miller
February 21, 2017
HRC Job Number 20170112
Page 3 of 4

The Final Project Plan must be submitted to MDEQ by *July 1, 2017*, to qualify for the FY 2018 Project Priority List (PPL) that is anticipated to be promulgated on or around October 1, 2017. The OMCPWC must conduct a Public Hearing that includes a 30-day notice period. A Draft Project Plan must be made available to the public for review and comment during the 30-day notice period. Based on these requirements, a Public Hearing would need to be scheduled for no later than June 8, 2017 and the Draft Project Plan submitted to the MDEQ by March 31, 2017.

HRC proposes to provide Professional Engineering services to submit a grant application to the MDEQ and complete a Project Plan for the subject project with fees not to exceed \$60,000. Refer to the attached table for the breakdown of tasks and associated hours by HRC staff classification.

Fees for the Administration of the SRF Loan are not included in this engineering budget, however, these fees can be provided under separate cover upon request. Services provided by HRC as requested outside of the above scope or on an as-needed or as-required basis beyond the deliverables documented above shall be performed at the rates provided in the attached 2017 Hourly Rate Schedule.

This project will be administered through our Bloomfield Hills office. Mr. James F. Burton, P.E., CFM will be the Partner-in-charge and will be supported by, Mr. Bradley Shepler, P.E. CCA, Associate, and our experienced Civil and Environmental staff.

We thank you in advance for considering us for this engineering work and we appreciate this opportunity to assist you with this important project. If this Proposal meets your needs, please sign below and return one copy to us. This will serve as the Engineering Contract Agreement, and authorization to proceed. We look forward to hearing from you soon. Should you have any questions, or require additional information, please contact this office at (248) 454-6300.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

ACCEPTED BY:

James F. Burton, P.E., CFM
Vice President

By: Candice S. Miller
Ms. Candice S. Miller
Macomb County Public Works
Commissioner

Attachment

Dated: 2/22/17

cc: OMCPWC; Brian Baker, Vince Astorino, Evans Bantios
HRC; B. Shepler, E. Ause, File

**STAFF HOUR PROJECTIONS
 IACOMB INTERCEPTOR DRAIN REPAIR PROJECT
 PROFESSIONAL ENGINEERING SERVICES (SRF PROJECT PLAN, LOAN APPLICATION & MDEQ GRANT APPLICATION)
 OFFICE OF THE MACOMB COUNTY PUBLIC WORKS COMMISSIONER**

HRC JOB #20170112.02
 #20170112.20

TASK	STAFF HOURS BY LABOR CATEGORY						TOTAL ESTIMATED FEES
	PRINCIPAL \$186.00	ASSOCIATE \$140.00	DEPT MANAGER \$138.00	GRADUATE ENGINEER \$90.00	ADMIN SUPPORT \$80.00	TOTAL HOURS	
1 SRF Project Plan							
1. Progress Meetings	24	36		20	16	96	\$ 12,580
2. Project Background		4		60	12	76	\$ 6,920
3. Analysis of Alternatives	2	8		16	4	30	\$ 3,250
4. Design Parameters of Selected Alternative	2	8		16	4	30	\$ 3,250
5. Evaluation and Mitigation of Environmental Impacts		4		16	8	28	\$ 2,640
6. Cost Estimate/Cost Analysis	2	8	4	16		30	\$ 3,480
7. Draft Report	4	16	8	40	16	84	\$ 8,970
8. Public Participation (Public Hearing, Agency RFI's, Notices, etc.)	8	16	4	28	8	64	\$ 7,440
9. Review Meeting	4	8		6		18	\$ 2,400
10. Final Report	4	8	4	16	4	36	\$ 4,180
TASK 1 TOTALS	50	116	20	234	72	492	\$ 55,000
2 MDEQ Grant Application							
1. Scoping Meetings	6	8				14	\$ 2,240
2. Project Work Plan	1	8		2		11	\$ 1,490
3. Application Preparation	1	4	1	4	2	12	\$ 1,400
TASK 2 TOTALS	8	20	1	6	2	37	\$ 5,000



Hubbell, Roth & Clark, Inc.

2017 Hourly Rate Schedule

Prepared for:
Macomb County Public Works

<u>Category</u>	<u>Billable Rates</u>
Principal	186.00 - 186.00
Sr. Associate/Managing Engineer	169.00 - 186.00
Associate/Managing Engineer	135.00 - 169.00
Department Manager	124.00 - 153.00
Manager	124.00 - 163.00
Sr. Project Engineer/Architect	116.00 - 179.00
Project Engineer/Architect	96.00 - 138.00
Staff Engineer/Architect	98.00 - 111.00
Graduate Engineer/Architect I/II	81.00 - 108.00
Transportation Specialist	130.00 - 133.00
GIS Specialist	72.00 - 96.00
Right of Way Specialist	147.00 - 147.00
Environmental Analyst	62.00 - 97.00
Sr. Designer	129.00 - 163.00
Designer	91.00 - 138.00
Sr. Cadd Technician	97.00 - 110.00
Survey Office Supervisor	131.00 - 131.00
Registered Surveyor	106.00 - 106.00
Survey Technician	99.00 - 101.00
Survey Party Chief	100.00 - 116.00
Survey - Instrument Person	76.00 - 86.00
Survey - Survey Assistant	49.00 - 55.00
Supervisors- Construction Observation	111.00 - 117.00
Field Project Representatives	98.00 - 133.00
Construction - Office Technician	63.00 - 69.00
Sr. Construction Observer	78.00 - 106.00
Construction Observer I/II	55.00 - 77.00
Construction Engineer	96.00 - 144.00
Testing Technician	55.00 - 98.00
Administrative Support**	65.00 - 115.00

*Wage rates shown above are for 2017.

Billable rates for Hubbell, Roth & Clark, Inc. include Unemployment and Payroll taxes, contributions for Social Security, Retirement benefits, Medical and Life insurance benefits, normal printing cost, telephones, fax, computer time, mileage, other overhead costs and profit.

Allowable Reimbursable expenses will be invoiced at our cost which is defined as the direct costs plus 12% .

** This Category includes Computer, Reproduction and Administrative Staff.



MACOMB COUNTY PUBLIC WORKS COMMISSIONER
 21777 Dunham Road
 Clinton Township MI 48036
 Phone: (586) 469-5325 Fax: (586) 469-5933

PO Number: 2-22-211

PURCHASE ORDER

Vendor

Name PureAir Filtration

Address 6050 Peachtree Pkwy, Suite 240-187
Norcross, GA 30092

Ship To

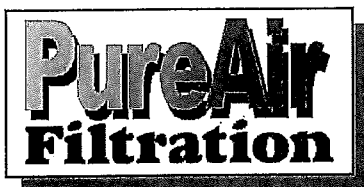
Name: Vince Astorino

Address: MIDDD - 15 Mile Sinkhole
15 Mile/Utica Road

DATE: February 22, 2017

Qty	Units	Item No.	Description	Unit Price	TOTAL
1			PureAir Filtration Model RF20 which includes: 1) Vapor Phase Activated Carbon Filtration Vessel, includes: Carbon steel construction vapor phase filtration units, dimensions: 8'6" wide x 21' 0" long x 8' 6" high. 2) PureAir high capacity media for each of the absorber vessels. The unit will consist of 189 cubic feet of Sulphasorb XL and 95 cubic feet of CPS12 Blend. 3) Real Time Media Bed Monitor: 4) One (1) corrosion resistant blower 5) all interconnecting, ductwork, flex connectors between the blower and the vessel. 6) High efficiency mist and grease filter 7) One differential pressure gage rated 0-10 iwg. 8) Motor starter 9) Testing and training of site personnel on operation and maintenance of the equipment. <u>Not Included:</u> Installation of any of the above equipment Electrical Installation		\$65,500.00
Subtotal					\$65,500.00
Shipping & Handling					
Taxes					EXEMPT
TOTAL					\$65,500.00

Approval: *Bruce Manning*
 Bruce Manning, Interim Financial Manager



6050 PEACHTREE PKWY, SUITE 240-187 NORCROSS, GA 30092
Ph: 678-935-1431, Fax: 678-935-0648

To: Vince Astorino
Date: February 14, 2017
Project: Macomb County – 15 Mile Bypass Odor Control
Owner: Macomb County (OMID)

Quote#: PAF-170214aay

PUREAIR FILTRATION is pleased to offer the following Proposal and Pricing for your review. Orders/Contracts/Terms for purchase of these materials are subject to the attached standard terms and conditions.

Mr Astorino,

We are pleased to provide you with the following solution for a PureAir Filtration system to effectively remove malodorous air containing H2S and other sewage gases. The PureAir Filtration Model RF20 containers are designed to hold more media and allow for quick change-outs. The RF20 systems are perfect for temporary applications. The system will consist of the following, unless stated otherwise:

- 1) Vapor Phase Activated Carbon Filtration Vessel. PureAir Filtration Model RF20. System includes: Carbon steel construction vapor phase filtration units, dimensions: 8'6" wide x 21' 0" long x 8' 6" high.
- 2) PureAir high capacity media for each of the adsorber vessels. The unit will consist of 189 cubic feet of Sulphasorb XL and 95 cubic feet of CPS12 Blend.
- 3) Real Time Media Bed Monitor: This system includes PureAir's proprietary "Real Time Media Bed Monitor" which gives continuous, reliable monitoring of the remaining life of the H2S carbon.
- 4) One (1) corrosion resistant blower to produce up to 5000 CFM of air.
- 5) All interconnecting, ductwork, flexible connectors between the blower and the vessel.
- 6) High efficiency mist and grease filter.
- 7) One differential pressure gage rated 0-10 iwg.
- 8) Motor starter.
- 9) Testing and training of site personnel on the operation and maintenance of the equipment.

Prices are firm if Proposal accepted within 90-days from proposal date. Invoices are payable within 30-days from Invoice date. The attached Terms and Conditions become a part of this offer to sell.

Not Included:

Installation of any of the above equipment
Electrical Installation

Terms: See also attached standard terms and conditions
Submittals to be completed in **1-2** weeks upon receipt of purchase order
Delivery will occur based on availability after written release from Purchaser.
Freight: FOB Destination
Taxes: *Not included*

PURCHASE PRICE:.....\$65,500.00 each

Contact:

Glenn Hummel (Hesco)

T: 586.214.9647

STANDARD TERMS AND CONDITIONS

The following Terms and Conditions are an integral part of PureAir Filtration attached offer to sell equipment or services stated in this Proposal.

A. **SHIPMENT:** Subject to submittal approval. Estimated shipment is 4-12 weeks dependent on equipment or services provided. PureAir Filtration is not responsible for delay in shipment or delivery of any kind beyond our control.

B. **TERMS:** The prices quoted by PureAir Filtration are subject to the following payment terms:

1. Payment: Net 20% on submittal approval, 75% net 30, 5% maximum retainage. Net amount due in thirty (30) days after date of each invoice on all orders. Purchaser's payment of invoices shall not be contingent or dependent upon prior receipt of any payment to Purchaser from third parties.
2. Any invoice unpaid after 30 days from invoice date will be subject to interest charges of 2% per month, compounded.
3. 5% Maximum Retainer is Allowed per the Terms and Conditions of this offer to sell.
4. Lien laws and Bonding Company requirements are such that PureAir Filtration must file claim with City, Bonding Company and Engineer within 60 days from date of invoice on unpaid accounts in order to protect reserve of amounts to cover supplier's unpaid invoice. This is in no way reflective of Contractor's ability to pay. It is only a required action dictated by State lien Laws and Bonding Companies. Therefore, PureAir Filtration claim forms will be filed with the City, Bonding Company and Engineer 10 days before any account receivable becomes 60 days old.
5. Equipment cannot be returned and an order, once accepted and approved, cannot be canceled, without prior written consent. In case of cancellation, Buyer agrees to reimburse PureAir Filtration for all costs incurred plus a mark-up of 20% for overhead expenses.

C. **TAXES:** We do not include in this Quotation any Federal, State or Municipal Sales, Use or Gross Income Tax which may be chargeable against the equipment offered. Any such tax which the Seller shall be liable for the payment or collection of shall be paid by the Buyer, although not specifically set out as an Item in this Proposal.

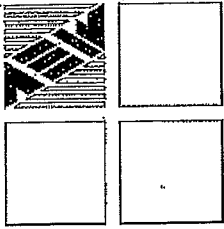
D. **PENALTIES:** There are no penalties or liquidated damages assessed except as may be specifically provided for in this Proposal.

E. **CLAIMS FOR LOSS OR DAMAGE IN TRANSIT:** Since material is sold "FOB Factory" or "FOB Factory, freight allowed to destination", the responsibility for filing claims for loss or damage in transit is the Buyers. We will assist and cooperate with the Buyer in handling such problems.

F. **WARRANTY & SERVICE:** PureAir Filtration warranties on equipment are limited to the warranty provided to the Purchaser of the specific equipment contained in this Proposal. Start-up or operation of equipment containing electrical or electronic components by unauthorized persons and damage resulting from unauthorized operation will be sufficient grounds to void all warranties on that equipment unless it has been previously checked out and operated by qualified personnel of the manufacturer or their representatives. If such failure is attributable to defects in the material furnished and found to have existed at the time of delivery, the Seller's liability shall be limited to furnishing necessary replacement material or parts. PureAir Filtration assumes no liability under any conditions for installation, labor, or materials associated with the installation of Seller's materials, unless installation is an integral part of this Proposal and are supplied by PureAir Filtration. This Proposal is for equipment only, and unless stipulated otherwise, does not include field service of any kind. Service will be charged at a rate of \$420.00 per day, plus travel and living expenses. Two weeks minimum advance notice in writing for start-up service is required. Start-up or supervision service will not be provided by PureAir Filtration on equipment covered by this Proposal if payment for equipment is not current, per item B(1) of these Terms and Conditions.

G. **ACCEPTANCE OF THE PROPOSAL:** This proposal is subject to Buyer's offer to purchase and to the subsequent acceptance of an Officer of PureAir Filtration. Thereupon it will become the entire Agreement between Buyer and the Seller notwithstanding any previous communications or negotiations, whether oral or written. There are no covenants, agreements, inducements, guarantees, warranties, additions or considerations other than as set out specifically in this Proposal. The parties intend to be legally bound by this Agreement and to be governed by Georgia law upon the execution of this Instrument as a contract. In the event the Buyer issues his own purchase order or prepares a contract based on this Proposal, the Terms and Conditions of this Proposal shall be deemed to be incorporated in the said purchase order or contract unless exception is specifically taken.

H. **SPECIAL CONDITIONS:** No back charges or delay in payment of equipment shipped or services performed will be accepted by PureAir Filtration unless authorized in advance and confirmed in writing by PureAir Filtration. We wish to assure you that PureAir Filtration will do its utmost to meet your required delivery dates; however, we cannot be held responsible for delays and shortages of material caused by conditions beyond our control.



ANDERSON, ECKSTEIN AND WESTRICK, INC.

51301 Schoenherr Road, Shelby Township, Michigan 48315
Civil Engineers • Surveyors • Architects 586-726-1234

Ms. Candice S. Miller,
Public Works Commissioner, Macomb County
21777 Dunham Road,
Clinton Township, MI 48036

March 9, 2017
AEW Project No. 0211-0183

Reference: 15 Mile Road Interceptor Repair Recovery Shaft - Proposal Evaluation and
Recommendation
AEW Project No. 0211-0183

Dear Commissioner Miller,

For consideration by the Macomb Interceptor Drain Drainage Board (MIDDD), the Review Team has completed a comprehensive review of the proposals submitted on March 6, 2017 by pre-qualified Contractors for the recovery shaft project.

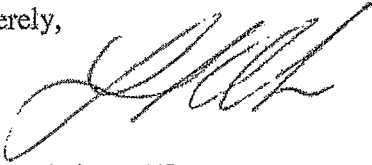
The Review Team consisted of engineering and management staff from Macomb County as well as representatives from the consulting engineering firms, led by the prime engineering consultant, Anderson, Eckstein, and Westrick, Inc. In addition, the Team has also retained outside professional advice regarding certain aspects of the proposals. Consideration of the proposal submissions included qualifications with respect to prior experience, safety history, construction schedule, proposed field supervisory staff, and pricing as specified in the Contract Documents. All of the responsive proposers participated in an interview to further determine the competency of the contractor and verify the accuracy and completeness of their proposals.

Accordingly, based on the above noted factors, the Review Team has reached a conclusion as to the Contractor who will best address the overall interests of the MIDDD, and unanimously recommends the following Contractor for Award of this project:

Dan's Excavating, Inc.
12955 23 Mile Road
Shelby Township, MI 48315

Should the Macomb Interceptor Drain Drainage Board or other representatives of Macomb County desire further information on the selection process, please feel encouraged to contact the undersigned.

Sincerely,



Louis J. Urban, P.E.
Project Manager



Evans Bantios, P.E., Engineer II
Macomb County Public Works Office

Enclosure: Proposal Tabulation

Cc: C. Miller (MCPWC)
B. Baker (MCPWO)
F. Klingler (FKE)
K. Ridgway (ASI)
R. Rose (AEW)
L. Winn (AEW)
J. Zann (PMA)
K. Graboske (MCPWO)

TABULATION OF BIDS
 Office of the Macomb County Public Works Commissioner
 15 Mile Road Interceptor Repair
 Recovery Shaft
 AEW PROJECT NO. 0211-0183



Item No.	Description	Estimated Quantity	Units	Dart's Excavating, Inc		L. D'Agostini & Sons, Inc		Rio-Man Construction, Inc.		Z Contractors, Inc.		Jay Des Contractors	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1.	Mobilization, 5% Max.	1.00	LS	825,000.00	825,000.00	1,600,000.00	1,600,000.00	185,058.02	185,058.02	900,000.00	900,000.00	900,000.00	900,000.00
2.	Permit Allowance	1.00	LS	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00	400,000.00
3.	Subcontractor Assignment Assistance Allowance	1.00	LS	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00
4.	Pavt. Rem	3,600.00	Syd	8.00	28,800.00	12.00	43,200.00	13.75	49,500.00	10.00	36,000.00	13.00	46,800.00
5.	Primary Piers, 36 Inch	124.00	Ea	20,000.00	2,480,000.00	22,000.00	2,728,000.00	19,727.94	2,446,264.36	14,000.00	1,736,000.00	20,000.00	2,480,000.00
6.	Secondary Piers, 36 Inch	120.00	Ea	18,000.00	2,160,000.00	22,000.00	2,640,000.00	19,051.77	2,286,212.40	14,000.00	1,680,000.00	20,000.00	2,400,000.00
7.	Steel Casing for Drilled Piers, 36 Inch	33.00	Ea	1.00	33.00	1,500.00	49,500.00	4,329.84	142,884.72	1.00	33.00	1.00	33.00
8.	Structural Steel, W24 x 162 (Struts, Whalers, Misc.)	1.00	LS	1,560,000.00	1,560,000.00	900,000.00	900,000.00	881,113.66	881,113.66	1,550,000.00	1,550,000.00	2,800,000.00	2,800,000.00
9.	Structural Steel, W24 x 279 (Struts, Whalers, Misc.)	1.00	LS	700,000.00	700,000.00	400,000.00	400,000.00	405,462.26	405,462.26	550,000.00	550,000.00	1,200,000.00	1,200,000.00
10.	House Demolition	2.00	Ea	25,000.00	50,000.00	30,000.00	60,000.00	39,172.65	78,345.30	25,000.00	50,000.00	20,000.00	40,000.00
11.	Structural Bulkhead	1.00	Ea	45,000.00	45,000.00	200,000.00	200,000.00	84,781.65	84,781.65	30,000.00	30,000.00	100,000.00	100,000.00
12.	Excavation, Precut	1.00	LS	750,000.00	750,000.00	750,000.00	750,000.00	724,000.00	724,000.00	1,400,000.00	1,400,000.00	500,000.00	500,000.00
13.	Excavation, Recovery Shaft	1.00	LS	1,500,000.00	1,500,000.00	900,000.00	900,000.00	993,148.83	993,148.83	2,924,000.00	2,924,000.00	3,240,000.00	3,240,000.00
14.	Non-Hazardous Contaminated Excavation	2,300.00	Cyd	40.00	92,000.00	50.00	115,000.00	33.02	121,946.00	45.00	103,500.00	40.00	92,000.00
15.	Utilities, Remove	1.00	LS	20,000.00	20,000.00	20,000.00	20,000.00	5,335.53	5,335.53	10,000.00	10,000.00	15,000.00	15,000.00
16.	Base Slab	310.00	Cyd	650.00	201,500.00	1,000.00	310,000.00	799.84	247,950.40	460.00	142,600.00	500.00	155,000.00
17.	Subgrade, Undercut	1,000.00	Cyd	80.00	80,000.00	100.00	100,000.00	80.40	80,400.00	130.00	130,000.00	60.00	60,000.00
18.	Glass Fiber Reinforced Polymer Monar Pipe (GFRPMP), 10.0 ft. Dia.	260.00	Ft	3,000.00	780,000.00	2,000.00	600,000.00	1,150.02	299,005.20	1,350.00	351,000.00	100.00	240,000.00
19.	Backfill, Special	2,400.00	Cyd	300.00	720,000.00	150.00	360,000.00	224.20	538,080.00	140.00	356,000.00	100.00	240,000.00
20.	Backfill, Class II, CIP	1.00	LS	600,000.00	600,000.00	600,000.00	600,000.00	1,007,396.00	1,007,396.00	975,000.00	975,000.00	600,000.00	600,000.00
21.	Sewer Connection	1.00	LS	40,000.00	40,000.00	50,000.00	50,000.00	61,409.89	61,409.89	55,000.00	55,000.00	20,000.00	20,000.00
22.	Internal Stabilizing Rib Sets	35.00	Ea	3,000.00	105,000.00	10,000.00	350,000.00	5,510.01	192,850.35	5,450.00	190,750.00	2,000.00	70,000.00
23.	Temporary Bulkhead	4.00	Ea	20,000.00	80,000.00	5,000.00	20,000.00	10,916.35	43,665.40	8,500.00	34,000.00	2,500.00	10,000.00
24.	Recovery Shaft Internal Dewatering and Ground Water Control	1.00	LS	25,000.00	25,000.00	50,000.00	50,000.00	66,889.77	66,889.77	25,000.00	25,000.00	10,000.00	10,000.00
25.	Deep Gravity Wells, 36 Inch Dia.	5.00	Ea	43,500.00	217,500.00	10,000.00	50,000.00	21,945.46	109,727.30	20,000.00	100,000.00	18,000.00	90,000.00
26.	Final Access Shaft	1.00	Ea	800,000.00	800,000.00	1,200,000.00	1,200,000.00	1,396,932.00	1,396,932.00	950,000.00	950,000.00	650,000.00	650,000.00
27.	Sewer Dewatering and Inspection Support	1.00	LS	50,000.00	50,000.00	100,000.00	100,000.00	367,991.45	367,991.45	500,000.00	500,000.00	25,000.00	25,000.00
28.	Concentric Grouting from Inside the Interceptor - Mobilization Only	10,000.00	Cft	55.00	550,000.00	55.00	550,000.00	155.76	1,557,600.00	55.00	550,000.00	8.00	80,000.00
29.	Concentric Grouting from Inside the Interceptor - Mobilization Only	1.00	LS	55,000.00	55,000.00	55,000.00	55,000.00	7,132.28	7,132.28	55,000.00	55,000.00	150,000.00	150,000.00
30.	Installation of Grout Packers for Concentric Grouting	135.00	Ea	1,950.00	263,250.00	1,950.00	263,250.00	763.90	103,126.50	1,950.00	263,250.00	730.00	98,550.00
31.	Sealing Running or Gushing Leaks	1,500.00	Gal	180.00	270,000.00	250.00	375,000.00	155.53	233,295.00	180.00	270,000.00	185.00	277,500.00
32.	Crane Support at CS-3	1.00	LS	65,000.00	65,000.00	200,000.00	200,000.00	1,029,242.00	1,029,242.00	100,000.00	100,000.00	100,000.00	100,000.00
33.	Northeast Sewer Pump Station (NESPS), Mobilize and Setup	1.00	LS	175,000.00	175,000.00	30,000.00	30,000.00	192,022.80	192,022.80	201,000.00	201,000.00	150,000.00	150,000.00
34.	Northeast Sewer Pump Station, Cleaning	500.00	Tons	1,125.00	562,500.00	700.00	350,000.00	1,234.43	617,215.00	1,125.00	562,500.00	470.00	235,000.00
35.	Fraser Water Main Restoration	1.00	LS	35,000.00	35,000.00	50,000.00	50,000.00	54,814.09	54,814.09	135,000.00	135,000.00	75,000.00	75,000.00
36.	Fraser Sanitary Sewer Restoration	1.00	LS	65,000.00	65,000.00	100,000.00	100,000.00	245,200.17	245,200.17	375,000.00	375,000.00	350,000.00	350,000.00
Base Bid Total					16,859,583.00		16,988,950.00	17,755,998.53	18,170,633.00				18,419,883.00

TABULATION OF BIDS
 Office of the Macomb County Public Works Commissioner
 15 Mile Road Interceptor Repair
 Recovery Shaft
 AEW PROJECT NO. 0211-0183



Item No.	Description	Estimated Quantity	Units	Dantz Excavating, Inc		L. D'Agostini & Sons, Inc		Rice-Man Construction, Inc.		Z Contractors, Inc.		Jay Dee Contractors	
				Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
Assignments													
1.	Assignment 1: Mersino Dewatering	1.00	LSUM	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00
2.	Assignment 2: Mersino Longterm By Pass	1.00	LSUM	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00	4,000,000.00
3.	Assignment 3: Mersino Emergency by Pass	1.00	LSUM	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00	4,400,000.00
4.	Assignment 4: POCO	1.00	LSUM	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00	150,000.00
5.	Assignment 5: Odor Control	1.00	LSUM	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00	40,000.00
6.	Assignment 6: Construction Trailers	1.00	LSUM	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
7.	Assignment 7: Site Security	1.00	LSUM	250,000.00	250,000.00	250,000.00	250,000.00	250,000.00	250,000.00	250,000.00	250,000.00	250,000.00	250,000.00
8.	Assignment 8: Sewer Cleaning	1.00	LSUM	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00
9.	Assignment 9: Rotor Electric	1.00	LSUM	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00
Assignments (1 through 9) Total					15,860,000.00		15,860,000.00		15,860,000.00		15,860,000.00		15,860,000.00
Base Bid plus Assignments					32,710,533.00		32,848,950.00		33,615,998.53		34,030,633.00		34,279,883.00
Alternate 1: Work Schedule													
1.	Add / Deduct				2,600,000.00		0.00		0.00		0.00		0.00
Alternate 1 Total					2,600,000.00		-200,000.00		645,000.00		0.00		-240,000.00
Alternate 2: Pipe Materials													
1.	Add / Deduct				-25,000.00		0.00		0.00		0.00		0.00
Alternate 2 Total					-25,000.00		0.00		-32,500.00		0.00		-30,000.00
Alternate 3: Rental Rates													
1.	Rental Rate Discount		Percent	10.00					25.00				25.00
Alternate 4: Contractor's Mark-Up													
1.	Contractor Mark Up		Percent	12.50					15.00				15.00
2.	Contractor Mark Up on Sub-Contractor		Percent	4.00					5.00				5.00
3.	Sub Contractor Mark Up		Percent	14.00					15.00				15.00
4.	Contractor and Sub Contractor Tiered Mark Up		Percent	25.50					5.00				5.00
5.	Assignment Mark Up		Percent	4.00					0.00				4.00
** CORRECTED BY ENGINEER													
Item No. 5 entered on Contractor's Bid							19,727.00						
Item No. 6 entered on Contractor's Bid							19,051.00						
Base Total entered on Contractor's Bid							17,756,000.00						



Candice S. Miller

Public Works Commissioner
Macomb County

March 2, 2017

RE: MID Interceptor Condition Assessments
Romeo Arm, 15 Mile, Garfield, and Lakeshore Interceptors
SAW Grant Application No. 1128-01
RECOMMENDATION FOR CONTRACT AWARD

Dear Ms. Miller,

On February 27, 2017, the Macomb County Public Works Office received a low Bid for the subject project from RedZone Robotics, Inc. in the amount of \$1,498,573.70. Following a comprehensive review of this contractor's submittal, qualifications, and references, our consulting engineer Giffels Webster recommends RedZone be awarded the Contract.

Considering these evaluations and the urgency of inspection, I recommend the Drainage Board award this Contract to RedZone. Following a Contract award, we would request RedZone submit all the required bonds and insurances as-specified in the Contract documents for execution.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Astorino'.

Vince Astorino
Engineer II – Wastewater Services

Cc: Steve Siklich, PE, Project Manager
Brian Baker, Chief Deputy Public Works Commissioner
Evans Bantios, Engineer II – Wastewater 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



March 2, 2017

Vince Astorino, Engineer II – Wastewater Services
Macomb County Public Works Office
21777 Dunham Road
Clinton Township, MI 48036

RE: **Final Contract Bid Recommendation**
Romeo Arm, 15 Mile, Garfield, and Lakeshore Interceptors
SAW Grant Application No. 1128-01

Project: MID Interceptor
Condition Assessments
Project No: 18395.03

Dear Vince,

On February 27, 2017, the Macomb County Public Works Office received and processed one Bid for the above referenced project. The total Bid amount was recorded, and a Bid Tabulation Summary was prepared comparing their Bid with our Engineer's Estimate. The low Bid was submitted by RedZone Robotics, Inc in the amount of **\$1,498,573.70**. This Bid amount will cover all work indicated on the Bid form submittal and is within the amount on the Engineer's Estimate.

This contractor's Bid submittal, qualifications, and references were reviewed and evaluated based on the requirements necessary to perform the work as outlined in the plans and specifications. RedZone has an established history of excellence regarding Multi-Sensor Inspection (MSI) technology, setting the industry standard for digital CCTV, sonar profiling, and laser profiling in large diameter interceptors.

We hereby recommend that RedZone Robotics, Inc. be awarded the Contract for this MID Condition Assessment project in the amount of **\$1,498,573.70**. Award to this contractor shall be contingent on the County receiving all the necessary insurance, bonding, and other contractual requirements as outlined in the Bid documents.

Should you have any questions, please do not hesitate to contact me at (248) 598-5125.

Sincerely,

A handwritten signature in black ink, appearing to read "Siklich", written over a horizontal line.

Steve Siklich, PE
Senior Project Manager

Attached: Final Bid Tabulation with Engineer's Estimate

Cc: Evans Bantios, Engineer II – Wastewater Services



Bid Tabulation Summary
18395.03 MID Interceptor Condition Assessments
SAW 1128-01

Working Date: 2/27/2017

Item No.	Description	Estimated Quantity	Unit	Engineer's Estimate		RedZone Robotics Inc.	
				Est Unit Price	Est Price	Est Unit Price	Est Price
Base Bid							
A. Preparation and Setup							
1	Mobilization (3%)	1	LS	\$56,000.00	\$56,000.00	\$44,500.00	\$44,500.00
2	Reimbursed Permit Fees (Allowance)	1	LS	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
3	Traffic Control	1	LS	\$75,000.00	\$75,000.00	\$120,000.00	\$120,000.00
4	Flow Control Operation & Interceptor Access Coordination (Allowance)	1	LS	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
5	Tracked Platform Access, Setup, and Deployment	20	EA	\$700.00	\$14,000.00	\$250.00	\$5,000.00
6	Winched Platform Access, Setup, and Deployment	5	EA	\$1,000.00	\$5,000.00	\$100.00	\$500.00
Sub-total Preparation and Setup					\$220,000.00		\$240,000.00
B. Access to Sanitary Interceptor							
7	Soil Erosion and Sedimentation Control (As-Needed)	1	LS	\$15,000.00	\$15,000.00	\$10,800.00	\$10,800.00
8	Remove and Replace Asphalt Pavement (As-Needed)	320	SYD	\$250.00	\$80,000.00	\$115.00	\$36,800.00
9	Remove and Replace Concrete Pavement (As-Needed)	320	SYD	\$300.00	\$96,000.00	\$115.00	\$36,800.00
10	Deconstruct, San Struc, F&C, Replace with New (As-Needed)	20	EA	\$1,500.00	\$30,000.00	\$850.00	\$17,000.00
11	Deconstruct, San Struc, Chimney, Replace with New (As-Needed)	20	EA	\$2,500.00	\$50,000.00	\$900.00	\$18,000.00
12	Deconstruct, San Struc, Cone, Replace with New (As-Needed)	20	EA	\$4,500.00	\$90,000.00	\$1,200.00	\$24,000.00
13	Remove Platform, Concrete (As-Needed)	37	EA	\$5,500.00	\$203,500.00	\$3,250.00	\$120,250.00
14	Remove Platform, Metal (As-Needed)	22	EA	\$6,500.00	\$143,000.00	\$1,500.00	\$33,000.00
15	San Struc, Chimney, External Seal	20	EA	\$900.00	\$18,000.00	\$700.00	\$14,000.00
Sub-total Access to Sanitary Interceptor					\$725,500.00		\$310,650.00
C. CCTV Inspection of Mainline Sanitary Pipe							
16	San FM, ML, 60", Inspect, Manage Data, CCTV	7,247	LF	\$1.25	\$9,058.75	\$6.00	\$43,482.00
17	San Swr, ML, 60", Inspect, Manage Data, CCTV	15,876	LF	\$1.00	\$15,876.00	\$6.00	\$95,256.00
18	San Swr, ML, 84", Inspect, Manage Data, CCTV	16,108	LF	\$4.60	\$74,096.80	\$6.00	\$96,648.00
19	San Swr, ML, 96", Inspect, Manage Data, CCTV	1,414	LF	\$6.40	\$9,049.60	\$6.00	\$8,484.00
20	San Swr, ML, 108", Inspect, Manage Data, CCTV	7,222	LF	\$8.20	\$59,220.40	\$7.00	\$50,554.00
21	San Swr, ML, 132", Inspect, Manage Data, CCTV	43,740	LF	\$11.80	\$516,132.00	\$7.00	\$306,180.00
Sub-total CCTV Inspection of Mainline Sanitary Pipe					\$683,433.55		\$600,604.00
D. Laser Inspection of Mainline Sanitary Interceptor							
22	San FM, ML, 60", Inspect, Manage Data, Laser	7,247	LF	\$0.15	\$1,087.05	\$1.50	\$10,870.50
23	San Swr, ML, 60", Inspect, Manage Data, Laser	15,876	LF	\$0.10	\$1,587.60	\$1.50	\$23,814.00
24	San Swr, ML, 84", Inspect, Manage Data, Laser	16,108	LF	\$0.25	\$4,027.00	\$1.50	\$24,162.00
25	San Swr, ML, 96", Inspect, Manage Data, Laser	1,414	LF	\$0.30	\$424.20	\$1.50	\$2,121.00
26	San Swr, ML, 108", Inspect, Manage Data, Laser	7,222	LF	\$0.40	\$2,888.80	\$1.50	\$10,833.00
27	San Swr, ML, 132", Inspect, Manage Data, Laser	43,740	LF	\$0.55	\$24,057.00	\$1.50	\$65,610.00
Sub-total Laser Inspection of Mainline Sanitary Interceptor					\$34,071.65		\$137,410.50
E. Sonar Inspection of Mainline Sanitary Interceptor							
28	San FM, ML, 60", Inspect, Manage Data, Sonar	7,247	LF	\$0.15	\$1,087.05	\$0.50	\$3,623.50
29	San Swr, ML, 60", Inspect, Manage Data, Sonar	15,876	LF	\$0.10	\$1,587.60	\$0.50	\$7,938.00
30	San Swr, ML, 84", Inspect, Manage Data, Sonar	16,108	LF	\$0.40	\$6,443.20	\$0.50	\$8,054.00
31	San Swr, ML, 96", Inspect, Manage Data, Sonar	1,414	LF	\$0.45	\$633.47	\$0.50	\$707.00
32	San Swr, ML, 108", Inspect, Manage Data, Sonar	7,222	LF	\$0.55	\$3,972.10	\$0.50	\$3,611.00
33	San Swr, ML, 132", Inspect, Manage Data, Sonar	43,740	LF	\$0.80	\$34,992.00	\$0.50	\$21,870.00
Sub-total Sonar Inspection of Mainline Sanitary Interceptor					\$48,715.42		\$45,803.50



Bid Tabulation Summary
18395.03 MID Interceptor Condition Assessments
SAW 1128-01

Working Date: 2/27/2017

Item No.	Description	Estimated Quantity	Unit	Engineer's Estimate		RedZone Robotics Inc.	
				Estimate Price	Estimate	Estimate Price	Estimate
F. Gas Inspection of Mainline Sanitary Interceptor							
34	San FM, ML, 60", Inspect, Manage Data, Gas	7,247	LF	\$0.15	\$1,087.05	\$0.10	\$724.70
35	San Swr, 60", ML, Inspect, Manage Data, Gas	15,876	LF	\$0.10	\$1,587.60	\$0.10	\$1,587.60
36	San Swr, 84", ML, Inspect, Manage Data, Gas	16,108	LF	\$0.50	\$8,054.00	\$0.10	\$1,610.80
37	San Swr, 96", ML, Inspect, Manage Data, Gas	1,414	LF	\$0.60	\$848.40	\$0.10	\$141.40
38	San Swr, 108", ML, Inspect, Manage Data, Gas	7,222	LF	\$0.85	\$6,138.70	\$0.10	\$722.20
39	San Swr, 132", ML, Inspect, Manage Data, Gas	43,740	LF	\$1.15	\$50,301.00	\$0.10	\$4,374.00
Sub-total Gas Inspection of Mainline Sanitary Interceptor					\$68,016.75		\$9,160.70
G. Inspection of Local Sanitary Interceptor							
40	Flow Control, Minor (As-Needed, Allowance)	1	LS	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00
41	Flow Control, Major, Bypass (As-Needed, Allowance)	1	LS	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
42	San Swr, Loc, 15", Inspect, Manage Data, CCTV	28	LF	\$0.80	\$22.40	\$2.50	\$70.00
43	San Swr, Loc, 21", Inspect, Manage Data, CCTV	26	LF	\$1.70	\$44.20	\$2.50	\$65.00
44	San Swr, Loc, 30", Inspect, Manage Data, CCTV	41	LF	\$3.05	\$125.05	\$2.50	\$102.50
45	San Swr, Loc, 36", Inspect, Manage Data, CCTV	143	LF	\$3.95	\$564.85	\$2.50	\$357.50
46	San Swr, Loc, 42", Inspect, Manage Data, CCTV	160	LF	\$4.85	\$776.00	\$2.50	\$400.00
47	San Swr, Loc, 48", Inspect, Manage Data, CCTV	291	LF	\$5.75	\$1,673.25	\$2.50	\$727.50
48	San Swr, Loc, 54", Inspect, Manage Data, CCTV	181	LF	\$6.65	\$1,203.65	\$2.50	\$452.50
49	San Swr, Loc, 60", Inspect, Manage Data, CCTV	109	LF	\$7.55	\$822.95	\$5.00	\$545.00
50	San Swr, Loc, 66", Inspect, Manage Data, CCTV	162	LF	\$8.45	\$1,368.90	\$5.00	\$810.00
51	San Swr, Loc, 72", Inspect, Manage Data, CCTV	3	LF	\$9.35	\$28.05	\$5.00	\$15.00
Sub-total Inspection of Local Sanitary Interceptor					\$81,629.30		\$78,545.00
H. 3D Optical Scan of Sanitary Structures							
52	Strd MH, ML, Inspect, Level 2 MACP, 3D Optical Scan	76	EA	\$100.00	\$7,600.00	\$175.00	\$13,300.00
53	Ctrl Struc, ML, Inspect, Level 2 MACP, 3D Optical Scan	3	EA	\$125.00	\$375.00	\$2,000.00	\$6,000.00
54	FM Acscry, ML, Inspect, Level 2 MACP, 3D Optical Scan	16	EA	\$150.00	\$2,400.00	\$1,000.00	\$16,000.00
55	Drp Shft, ML, Inspect, Level 2 MACP, 3D Optical Scan	1	EA	\$150.00	\$150.00	\$2,000.00	\$2,000.00
56	Strd MH, Loc, Inspect, Level 2 MACP, 3D Optical Scan	12	EA	\$100.00	\$1,200.00	\$175.00	\$2,100.00
57	Junc Cham, Loc, Inspect, Level 2 MACP, 3D Optical Scan	3	EA	\$100.00	\$300.00	\$2,000.00	\$6,000.00
58	Drp Shft, Loc, Inspect, Level 2 MACP, 3D Optical Scan	3	EA	\$150.00	\$450.00	\$2,000.00	\$6,000.00
Sub-total 3D Optical Scan of Sanitary Structures					\$12,475.00		\$51,400.00
I. Substantial and Final Completion							
59	Restoration (As-Needed)	1	LS	\$30,000.00	\$30,000.00	\$15,000.00	\$15,000.00
60	GIS Electronic Database	1	LS	\$10,000.00	\$10,000.00	\$5,000.00	\$5,000.00
61	Final Submittal and Software Viewer	1	LS	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
Sub-total Substantial and Final Completion					\$45,000.00		\$25,000.00
BASE BID TOTAL = A + B + C + D + E + F + G + H + I					\$1,919,000.00*		\$1,498,573.70

* Engineer's Estimate (with 10% Contingency):

\$2,111,000.00

Final Bid Tabulations Approved By:

Vince Astorino

Bids Opened By:

Rocky Rizzo

Bids Read By:

Candice S. Miller

Bids Recorded By:

Steve Siklich

Macomb Interceptor Drain
15 Mile at Eberlein Sinkhole
Work Directive Number: 6

Ric-Man Construction, Inc.
42600 R. Mancini Drive
Sterling Heights, Michigan 48314

January 7, 2017
AEW Project No. 0211-0183

Attn: Mr. Steve Mancini
Mr. Dennis Oszust

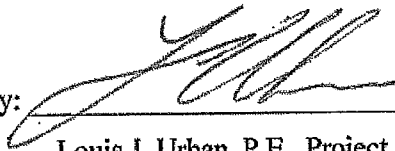
Subject: Long Term Bypass Pumping – Proposal Acceptance “Pumping Equipment – 10 Mos Rent”

DESCRIPTION:

Interceptor flow control has been broken down into emergency pumping to the local drains and Clinton River, midterm bypass pumping (from manholes at stations (97+14 and 110+15) and permanent bypass pumping (from CS-3 / adjacent 9' diameter structure) to the manhole adjacent to Fontana Drive with the capacity to handle dry and wet weather flows. Work Directive 6 is specific to the pumps for long term bypass pumping as detailed in Work Directive 2.

Work Directive No. 6 is issued to the Ric-Man Construction Inc., accepting the proposal from Mersino titled “Work Directive #2 RFP – Long Term Bypass Pumping *Revised*” dated January 6, 2017 for “Pumping Equipment – 10 Months’ Rent” ONLY in the amount of \$1,300,000.00. The remainder of the proposal items are under review and correspondence regarding their status will be forwarded under separate cover at a later date.

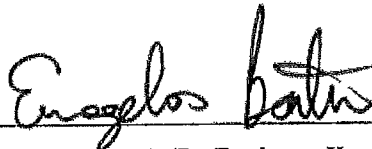
Recommended by:



Date 1/7/17

Louis J. Urban, P.E., Project Manager, AEW

Authorized by:



Date 1-7-17

Evans Bantios, P.E., Engineer II,

Macomb County Public Works Commissioner MID-Sinkhole Repairs Long-term Bypass Pumping Station Quotations Firm Capacity Required = 150-cfs January 7, 2017		
Pumping Contractor	Estimated Cost	Comments
Michigan CAT	\$4,145,630 \$142,377 sales tax \$4,288,007	Incomplete Quote No Spare Pump Provided as Required No VFD Provided as Required No System Monitoring Provided as Required Requires Removal of CS-3 Stop Log
Xylem	\$5,517,658 \$151,522 sales tax \$5,669,180	Complete Quote Requires Removal of CS-3 Stop Log Spare Pump Provided on Ground Station Shutdown Required for Pump Replacement Capacity at Risk if Pump Fails Excellent Computerized Monitoring and Control System
Mersino	\$5,350,000. tax included	Complete Quote Spare Pump Installed in CS-3 (Versus on Ground) Lower Risk of Capacity Shortfall if a Pump Fails Better Computerized Monitoring and Control System Needed Potential Savings for System Operations/Maintenance Costs

Recommendation = Mersino



810.658.3472
810.653.7828
www.mersino.com

January 6, 2017

Ric-Man Construction, Inc.
42600 R. Mancini Drive
Sterling Heights, MI 48314

Attn: Dennis Oszust

Re: Work Directive #2 RFP – Long Term Bypass Pumping *Revised*

Dear Mr. Oszust:

This proposal is a revision to the original submitted on 1/4/2017. This proposal includes changes to address the questions and to include alternates requested during the meeting. Further pricing has been updated to reflect these changes and alternates for your consideration.

Mersino appreciates the opportunity to provide this technical/budgetary proposal to supply pumps for the long term bypass of the Romeo Arm Interceptor Sewer while investigative work, stabilization, excavation, and repair and restoration of the sewer takes place. Our firm understands that there are many various approaches the owner may consider with respect to providing a pumping solution to maintain flows during such work. Our firm specializes in providing pumping solutions, and as such has experience in providing all of the solutions being considered. Each option has advantages and disadvantages; however, we feel strongly that one approach – the Vertical Turbine Sewage Pump plan – is technically superior to all others given the site restrictions and flow/head requirements of the project.

It is our expectation that our budget proposal is just that – not a fixed price solution – but is instead intended for use in comparing options technically and commercially, specific to the pump options themselves.

APPLICATION/SCOPE DETAILS

This budget/technical proposal is based upon the final bypass pumping plan selected by the owner, referred to as Option 1. This option consists of installing long term bypass pumping systems at the CS-3 structure (Sta. 123+00) and the 9' shaft structure (Sta. 125+40) along the Romeo Arm Interceptor, located east of the sinkhole along 15 Mile Road between Utica Road and Garfield Road. The desired total capacity (pumping rate) for the bypass system, in aggregate, is approximately 150 cfs (67,320 gpm). The Total Dynamic Head on the same pumping system is anticipated to range from 63.5 feet of head to 71.5 feet of head, dependent upon the incoming flows at any given moment and the resulting static head, friction losses, and velocity head experienced by the system. The calculated Total Dynamic Head figures are provided by others.

The scope of work anticipated in this budget/technical proposal for each option includes the provision of pumping equipment; the installation of the pumping system, operation and maintenance of each optional system, teardown of the same system, redundant power systems and distribution, and preventative maintenance of the pumps for the duration of the project.

In each option presented below, the pumps will be fitted with VFDs (variable frequency drive) for speed control, which will allow for manual operation of the pumps from low flow to high flow. By utilizing VFDs, the pumps could be operated at the appropriate speed given the flow and head conditions experienced at various times, minimizing cavitation and maximizing pump efficiency. Additionally, VFDs even allow for pump operation at an RPM higher than that for which a given motor is rated for (approximately 20% more) should the need arise. However, each system has been sized for operation at the RPM for which the pump motor is rated in that given option. Our proposal anticipates the installation of redundant power in the event of an area wide power outage. The pumps will be connected to backup portable diesel generators through automatic switch gear; should the main power line become de-energized the generators will automatically turn on and the power source will switch from line power to the diesel back up power. Additionally, our budget proposal anticipates the installation of bar screens up stream (to be provided by others), yet also anticipates the need for all pump options to specifically utilize sewage pumps that can handle 4" solids.

Operation and maintenance of the proposed pumping system as mentioned above has been included in the scope for Mersino. The O&M crew will consist of 1 operator during day shift, and 2 operators during the night shift. Mersino will work in conjunction with Ric-Mari Construction during day shift hours should the need arise to remove any pump due for maintenance purposes. With 7 pumps installed should a pump go down it will not be necessary to immediately remove and service the pump, and therefore removal and maintenance can be completed safely during day-time hours. Mersino expects to supply operators that have trained with Macomb County to understand their current operational system and therefore work conjointly with the county to operate the pumping system without requiring minute by minute direction. Mersino will supply pump system operators that are degreed engineers (i.e. Civil or Mechanical), and are members of the local 324 so as to remain compliant with our contract with the 324.

Scope items that have not been included under Mersino's scope of work in any of the options presented that are necessary for the long-term bypass operation include heavy equipment ready for immediate use should pump maintenance be required, fueling operations for backup generators should use dictate, and the supply of a power drop for connection to the electric motors and VFDs.

VERTICAL TURBINE SEWAGE PUMPS

We are confident that the solution presented with this option is the safest and most mechanically sound solution, and in the final analysis will also prove to be the most economically superior option presented to the owner. Our proposal includes the use of electric drive vertical turbine pumps. To meet the flow requirements of the project, Mersino is proposing the use of the Global Pump 20GSVT, a 20" diameter



Vertical Turbine pump as manufactured by our sister company -- Global Pump Company -- a Michigan based pump manufacturer. Each 20GSVT pump is capable of delivering flows of 25 cfs at the maximum TDH provided in the specification. These pumps are sewage handling pumps, capable of bypassing solids up to 4" in diameter. Mersino proposes to install seven (7) - 20" vertical turbine pumps for the long term bypass solution. Each pump will be capable of delivering flows up to 25 CFS which will provide, in aggregate, the specified 150 CFS of pumping capacity. Two of these pumps will be installed in the 9' shaft which has a 6' diameter opening at the crown of the sewer, and five additional pumps will be installed into CS-3. It is understood that the CS-3 structure will have an 11 foot X 8 foot open area to access the sewer for pump installation. Each vertical turbine will be 36" in diameter at its widest point, and will require a maximum of 6.5 feet of submergence from the invert of the sewer. Because of the size of our pumps, Mersino can readily install as many as six pumps into the CS-3 structure that would allow for additional in-place redundancy available for immediate use should the owner choose to add capacity above and beyond 150 CFS.

The vertical turbine pumps will be driven by electric motors that will be connected to the line power drop provided by others (1500-2000 total AMP service). Pumps have been engineered to include recirculation jet rings which will continuously flush the suction intake screen providing a self-cleaning function to mitigate clogging of the screen.

This quotation includes the necessary gate valves, check valves, flow meters, and all piping to the force main. The pumps will be wired to VFDs equipped with the Mersino Messenger feature which will allow for remote observation of pump operations such as RPM, flow, On/Off, and even allow of remote throttle control and/or start/stop.

This option anticipates the use of NEW PUMPS, never used before. All pumping equipment would be new. Pumps will begin being delivered within 3 to 4 weeks and all pumps are expected to be installed prior to the complete installation of the bypass piping.

Budgetary Pricing

BUDGETARY PROPOSAL	Total Budget Pricing- 10 Mos	Purchase Price	Rental Rate after 10 Mos
INSTALL	\$ 265,000.00	N/A	N/A
TEARDOWN	\$ 265,000.00	N/A	N/A
PUMPING EQUIPMENT - 10 MOS RENT	\$ 1,300,000.00	\$ 1,700,000.00	\$ 90,000.00
REDUNDANT POWER SYSTEMS	\$ 1,100,000.00 900,000	\$ 1,450,000.00	\$ 75,000.00
PUMP WATCH AND MAINTENANCE	\$ 2,600,000.00 *	N/A	N/A
BUDGETARY PROPOSAL	\$ 5,530,000.00 5,350,000	\$ 3,150,000.00	\$ 165,000.00

* ASSUMPTION IS THIS TSM
 ACTUAL COSTS COULD BE LOWER
 LEAPOR ON POWER BUDGET. STIL TSM INC. IN POWER,
 MAY BE LOWER
 199

Vertical Turbine Superior Benefits

- The design of a vertical turbine type of pump is much more streamlined and has fewer mechanical components that produce points of possible failure.
- The vertical turbine pump has an electric drive motor atop the unit above grade powering a submerged impeller at the bottom of the pump shaft. The motor is accessible at all times, and there are no seals in the pump either above grade or submerged in waste water. Instead the pump operates with packing, accessible above grade.
- The axial flow option will either have an electric motor powering a hydraulic pump comprising a power pack that in turn drives a hydraulic motor driving a pump head, stacked three times to create a pumping column of three separate pumps/power packs pumping in series; or a submersible electric pump where the entire pump assembly is submerged in the waste water and not accessible from the surface. Each power pack will have hoses running to the each pump head motor (for each of the three heads stacked for one pumping column) which is submerged. This means that Mersino's pumps have two points of failure each, the motor and the pump, or a total of 12 possible points of failure across six units. The competition has five points of failure on each triple stacked pumping option, the pump itself, the electric motor, the hydraulic pump, the hydraulic hoses, and the hydraulic motor. With three hydraulically operated pumps stacked to create a single triple stacked pumping unit (which is necessary in order to achieve the head when using an axial flow pump), each axial flow pumping column has 15 potential mechanical failure points; for a total of 60 points of possible failure across all four of the triple stacked pumping columns.
- The pumps will have self-cleaning jet-rings on each unit that will re-circulate flow to spray against the suction screen in order to mitigate clogging of the screens while the pumps are running.
- Our vertical turbine style pumps do not have a seal, but instead have packing which is located at the pump head (top). Maintenance of the packing requires no removal of the pump from the wet well, and therefore for easy maintenance should any need arise. Hydraulic and electric submersible pumps have their seals within the submerged portion of the unit. Should maintenance with that type of pump become necessary the pump would need to be removed from the wet well.
- The vertical turbine style pump will require a maximum of only 6.5 feet from the invert of the sewer.
- In addition to the increased potential for unit failure when utilizing a triple stacked pumping column of axial flow / mix flow pumps, each individual pump that fails in the triple stacked pump system means that the entire triple stacked pumping column is completely out of service, as a single failure means that the column can no longer achieve the necessary head. Depending on the configuration, because of the higher volume of water moved, pump failure removes a significant amount of flow from the total system. The vertical turbine pumps tend to better distribute flow across the system, with any single failure not having a fraction of the impact of the other system failure.

- As an additional facet of pump failure, the Mersino vertical turbines with no oil system proffer no ill environmental impact versus the competition. Should any of the competitor's hydraulic packs, hydraulic pumps and controls, hydraulic motors or hoses leak, hydraulic oil will be released from these pumps and contamination will occur at the point of failure.
- The Vertical Turbine Sewage Pump system is not only a more reliable and redundant system, it is also a more efficient system. Each Mersino pump will be installed with 250 HP for operation for a total of 1500 HP total across our system of six pumps with a pump efficiency of 84%. The triple stacked axial flow pumps will require hydraulic power packs for a total of 1800 HP across their system of pumping units with 80% pump efficiency. The axial flow pump requires higher overall horsepower due to the inefficiencies within the hydraulic drive system. They see efficiency losses at the electric motor, hydraulic pump, hydraulic hoses, and the pump impeller; whereas Mersino's vertical turbines only see losses at the electric motor and impeller. Mersino approximates the efficiency differences will equate to 20-25% through the overall pumping system, which is roughly equivalent to 400 HP. Assuming a cost of \$0.20 per HP/Hr for powering the units, the cost savings realized by using the Mersino system would equate to approximately \$537,600.00 over 10 months.

BENEFITS OF MERSINO AS SUBCONTRACTOR

Mersino is a vertically integrated pump manufacturer / pumping solution provider. And we are proud to be corporately based with both facets of our business right here in Michigan. Service support, parts inventory, and engineering support will be local. We take pride in the fact providing pumping solutions is the core of our business. As a pump manufacturer, we have designed and built a variety of pump types supplied to customers with applications in many different markets. We have established a network of distributors consisting of strong partners focused on serious pursuit of the temporary and permanent pump markets in the territories they have been consigned, including partners like Cashman CAT (Las Vegas), Keto Pump (Arizona), and Aquatech (Ontario). As a solutions provider, Mersino has designed, installed, and operated pumping systems small and large, ranging from complex pumping systems providing 225 cfs to facilitate bypass operations in industrial settings to providing groundwater control efforts by dewatering a hydro-turbine power plant on the Ohio River, or the airport expansion project in Jeddah, Saudi Arabia.

Our firm takes great pride in finding a way to succeed in the face of any and all challenges; yet doing so in a safe and cost effective manner. While not always the lowest price in a private bid scenario, we are very confident that we are always the best value proposition. And while Mersino may not be as large as those who may also be quoting this project, we see this as an advantage. Our firm is large enough to supply the resources, personnel, etc., to meet the project's needs, yet not so large as to be just another project. Mersino's President and Chairman have both had a presence on site for this project already and the President will continue to play an active role as the Project Director, personally guiding the project to success in a timely manner.

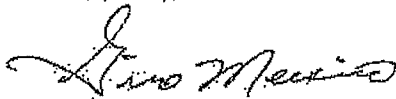
Our firm maintains an expansive fleet of equipment including different types of pumps such as end-suction centrifugal diesel pumps, axial and mix flow hydraulic pumps, centrifugal hydraulic pumps,

submersible centrifugal dewatering and trash pumps, and line-shaft vertical turbine pumps. We are selecting and promoting this option presented herein not because it is the only pump we manufacture and have available in our rental fleet. We are presenting this option because we sincerely believe this option to be the proper solution to this particular challenge. Mersino has most recently utilized a vertical turbine solution successfully close to this project, operating a vertical turbine bypass pumping system at the Clintondale Pump Station using three (3) vertical turbine pumps of a very similar size and design. This system provided temporary pumping while upgrades to the existing Clintondale Station were being made. The pumps for this system operated for 18 months and did not experience any major pump issues for the duration. We believe that the solution we are offering is the right choice for long term ease of use, pumping system operation, the design with respect to flow – splitting flow in a manner that allows for better system output in the event of failures, the resulting sewer levels, and the total economic costs of the system. Our solution is safer, more robust, and more economical. And we would note that this proposal does not cover all of the technical benefits. We would be pleased to present this solution in person to provide more detail regarding the installation, operation, and long term benefits of utilization of the Vertical Turbine option.

ADDITIONAL CLARIFICATIONS/QUALIFICATIONS:

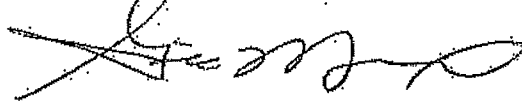
All figures provided attempt to include a budget number associated with the procurement of the equipment, the installation of the equipment, the operation and maintenance of the system, the tear down and demobilization of the equipment upon completion. All figures presented respecting operation and maintenance are based upon the owner's option to utilize and directly pay for the use of line power. No use tax applies if units are rented from Mersino, however sales tax would apply to a sale of equipment.

Sincerely,



Gino Mersino
President

* OPEN TO DISCUSSING DIFFERENT PRICING ARRANGEMENTS



Macomb Interceptor Drain
15 Mile at Eberlein Sinkhole
Work Directive Number: Seven

Ric-Man Construction, Inc.
42600 R. Mancini Drive
Sterling Heights, Michigan 48314

January 7, 2017
AEW Project No. 0211-0183

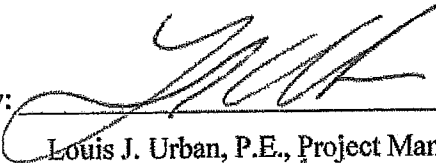
Attn: Mr. Steve Mancini
Mr. Dennis Oszust

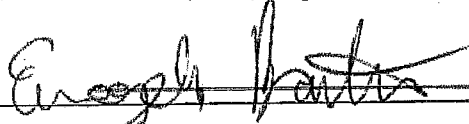
Subject: Force main - Proposal Acceptance

DESCRIPTION:

Interceptor flow control has been broken down into emergency pumping to the local drains and Clinton River, midterm bypass pumping (from manholes at stations (97+14 and 110+15) and permanent bypass pumping (from CS-3 / adjacent 9' diameter structure) to the manhole adjacent to Fontana Drive with the capacity to handle dry and wet weather flows. Work Directive 7 is specific to the force main for long term bypass pumping detailed in Work Directive 3.

Work Directive No. 7 is issued to Ric-Man Construction Inc., accepting the proposal from Great Lakes Fusion in reference to Work Directive #3 RFP with corresponding estimate # 1700 dated January 5, 2017 for items 1 through 4 in the amount of \$1,772,101.63.

Recommended by:  Date 1/7/17
Louis J. Urban, P.E., Project Manager, AEW

Authorized by:  Date 1-7-17
Evans Bantios, P.E., Engineer II,

Macomb County Public Works Commissioner MID Sinkhole Repairs Forcemain Piping Quotations January 7, 2017		
Pumping Contractor	Estimated Cost	Comments
Great Lakes Fusion	\$2,075,201 tax included	Complete Quote Twin 48 inch HDPE Pipes SDR = 26 Pipe Purchase with Salvage Value at End of Project Potential Savings if Jobsite Equipment is Used for Installation
Xylem	\$2,574,000 \$85,020 sales tax \$2,659,020	Complete Quote Twin 48 inch HDPE Pipes SDR = 26 Pipe Rental
Mersino	\$3,375,000 tax included	Complete Quote 8 Parallel 24 inch HDPE Pipes SDR = 17 Pipe Rental
Aetna	\$3,650,000 tax included \$1,213,805 \$72,828 sales tax \$1,286,633	Complete Quote 8 Parallel 24 inch HDPE Pipes SDR = 17 Pipe Purchase with Salvage Value at End of Project Incomplete Quote Twin 48 inch HDPE Pipes SDR = 26 Only Pipe Purchase Cost Provided

Recommendation = Great Lakes Fusion



Po Box 212 Vernon, MI 48476
7505 F. M71 HWY. Durand, MI 48429

Estimate

Date	Estimate #
1/5/2017	1700

Name / Address
Ric-Man Construction 42600 R. Mancini Dr Sterling Heights, MI 48314

equipment on-site

			Project
Description	Qty	Rate	Total
Re: Macomb Interceptor Drain 1.5 Mile At Eberlein Sinkhole Work Directive Number: 3			
1. Mob/Demob	1	25,500.00	25,500.00
2. General Conditions	1	169,000.00	169,000.00
3. Supply 9200' Of 48" HDPE SDR 26 With All Fittings, Valves, & Appurtenances	1	1,467,601.63	1,467,601.63
4. Supply Fusion Equipment & Labor To Complete Piping For Work Directive #3	1	110,000.00	110,000.00
5. Supply (2) 966 CAF Wheel Loaders With Operators For Support	1	54,000.00	54,000.00
6. Supply (2) Flat Bed Semi Trucks With Drivers For Moving Pipe	1	57,600.00	57,600.00
7. Supply (3) Skidsteer Tractors With Operators For Support	1	40,500.00	40,500.00
8. Supply (2) 40 Ton Cranes With Operators For Lifting	1	136,000.00	136,000.00
9. Supply (2) Pickups With (1) Jobsite Tool Trailer	1	15,000.00	15,000.00
Items Included: - All Materials, Labor, & Equipment To Fuse Pipe And Fittings Above Ground As Shown - Lifting, Dragging, & Positioning Pipe In Place - Supply & Installation Of Isolation Valve And AVVS At High Points - Supply And Installation Of (2) Access Manholes As Shown - Connections To Station Piping/Manifold As Shown			
Items Not Included: - All Saw Cutting, Road Removal, And Excavation To Be Done By Others - All Temporary And/Or Permanent Traffic Control To Be Done By Others			
We look forward to doing business with you.		Total	
Phone #	Fax #	E-mail	
989-288-2656	989-288-5735	officemgr@greatlakesfusion.com	



Po Box 212 Vernon, MI 48476
7505 E. M71 HWY, Durand, MI 48429

Estimate

Date	Estimate #
1/5/2017	1700

Name / Address
Ric-Man Construction 42600 R. Mancini Dr Sterling Heights, MI 48314

			Project
Description	Qty	Rate	Total
- Any Necessary Permits (if needed) To Be Secured By Others - Dumpsters And Disposal Of Pipe Shavings/Scrap To Be Provided By Others (Estimate (2) 30 Yard Dumpsters For Waste) - De-Commissioning/Removal To Be Done By Others - Light Plants Necessary For Night Time Work To Be Provided By Others Note: 1) Pipe Manufacturing Can Begin 2-3 Weeks After Notice To Proceed With Delivery To The Site Within 2-3 Days After Manufacturing Begins 2) Pipe Manufacturer Estimates 2-3 Loads Per Day (400-600 feet) Can Be Delivered Until Completion Of Order 3) Pipe Fusing Can Begin Immediately Upon Arrival Of First Delivery Of Pipe 4) GLF Estimates Completion Of Permanent Bypass System Within 16-21 Days Of First Pipe Delivery 5) Standby Time Will Be Invoiced At A Rate Of \$1,500.00/Hr. Due To Any Delays Caused By Owner And/Or Prime Contractor 6) GLF Will Not Be Held Responsible To Any Delay To The Project Due To The Event Of Force Majeure			
We look forward to doing business with you.		Total	\$2,075,201.63
Phone #	Fax #	E-mail	
989-288-2656	989-288-5735	officemgr@greatlakesfusion.com	



Barb Delecke <barb.delecke@macombgov.org>

Memo

2 messages

Bruce Manning <bruce.manning@macombgov.org>
To: "Rush, Colette" <Colette.Rush@53.com>
Cc: Barb Delecke <barb.delecke@macombgov.org>

Mon, Mar 6, 2017 at 8:44 AM

Hi Colette,

Would you be able to send me a memo so that Barb(Who I copied on this email) can include it on her MIDD agenda which is going out Thursday.

Just to confirm, your team will be there on March 13th.

--
Regards,

Bruce Manning
(586) 307-8279

Rush, Colette <Colette.Rush@53.com>
To: Bruce Manning <bruce.manning@macombgov.org>
Cc: Barb Delecke <barb.delecke@macombgov.org>, "Grajewski, Richard" <Richard.Grajewski@53.com>

Mon, Mar 6, 2017 at 5:38 PM

Bruce

We are excited and pleased that you have selected Fifth Third Bank as your banking partner. Proposal highlights include:

- Public Funds Premier NOW accounts offering;
 - Unlimited transactions for deposits and disbursements
 - Earnings Credit Rate of .45%
 - Interest paid on net free balances of .30%
- An annual increase of \$10,000-\$12,000 in net interest compared to your current offering
- Single sign on access to all bank information via Fifth Third Direct.

I will be joined by:

Rich Grajewski
Assistant Vice President
Commercial Relationship Manager
Office: 734-214-7913
Cell: 248-974-7463
Fax: 734-214-7952
Richard.Grajewski@53.com

Let me know if there are additional questions.

Colette Rush, CCM
Vice President, Treasury Management
Fifth Third Bank Eastern Michigan

CHAPTER 20 MACOMB INTERCEPTOR DRAIN BOARD - 3/13/17

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Available Project Balance		
Macomb Interceptor Drain Administration	Chesterfield - 7.1% Clinton - 21.6% Fraser - 4.3% Harrison - 5.8% Lenox - .7% Macomb - 13.6% New Haven - .9% Shelby - 9.8% Sterling Heights - 31.6% Utica - 1.9% Washington - 2.7%	Astorino	8 1/2 Mile Relief Drain	\$ 929.89	Invoice #002-17 - 12/31/16 - 1/27/17 O&M Reimbursement				
		Astorino	8 1/2 Mile Reiter Drain	\$ 1,051.18	Invoice #013-17 - 1/28/17 - 2/24/17 O&M Reimbursement				
		Astorino	City of Mt. Clemens	\$ 17,707.68	Invoice #11516 - 12/17/16 - 1/13/17 Sewage Flow Billing				
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc	\$ 4,490.71	Invoice #365523 - ending 2/24/17 Engineering Services	GLWA oversight/attend meetings			
		Astorino	Giffals-Webster	\$ 13,133.75	Invoice #112960 - SAW Grant 1128-01 Engineering Services - 12/4/16 - 12/31/16	SAW Grant 1128-01 - Inspection Program & Grant Management			
		Astorino	Giffals-Webster	\$ 23,918.75	Invoice #112971 - SAW Grant 1130-01 Engineering Services - 12/4/16 - 12/31/16	SAW Grant 1130-01 - Condition Assessment for Repair/Maintenance/Computerized Asset Management			
		Astorino	Johnson & Anderson	\$ 4,370.00	Invoice #40095 - ending 1/28/17 Engineering Services	Data Management Systems Support			
		Manning	Macomb County	\$ 10,746.87	Invoice #AR161117 - 4 Qtr. Wages Invoice held 2/13/17 for further review	Resubmitted for payment			
		Astorino	Sprint	\$ 1,014.42	Invoice #578736375-064 Cell Phones/SCADA Modems				
		Astorino	Viviano Law	\$ 1,597.00	Invoice #18526 - General Matters Legal Services - ending 1/31/17				
		Astorino	Viviano Law	\$ 1,178.00	Invoice #18530 - 2004 Sinkhole Legal Services - ending 1/26/17	MIDDD v. Inland Waters			
		Astorino	Viviano Law	\$ 1,719.50	Invoice #18532 - General Matters Legal Services - ending 1/28/17	Macomb v. Ric-Man			
		Biofilter SRF 5540-01		Manning	Bank of New York Mellon	\$ 19,649.99	Debt Service Payment	Project complete	
				Astorino	Oceanview Excavation	\$ 6,871.00	Invoice #454 - 2/9/17	Remove 3 trees for installation of conduit	

CHAPTER 20 MACOMB INTERCEPTOR DRAIN BOARD -- 3/13/17

Funding Source	Appropriation	Manager	Vendor	Amount	Invoice Detail	Project Summary	Available Project Balance
Macomb Interceptor Drain Clintondale P.S.		Astorino	Clinton Township	\$ 763.35	Monthly Water - Clintondale P.S.		
		Astorino	Complete Interactive Technologies, Inc.	\$ 1,142.00	Invoice #51809 - 1/23/17	Installation of 4 data cables for fiber optics	
		Astorino	DTE Energy	\$ 21,821.43	Monthly Electric - Clintondale P.S.		
		Astorino	Everstream	\$ 85,700.00	Invoice #A-170113155821-1 - 1/13/17	Fiber installation; construct new lateral from Clintondale P.S. to existing County access point; annual maintenance fee	
		Manning	Kirk, Huth, Lange & Badalamenti, PLC	\$ 1,000.00	Invoice #80026 - 1/1/17 Legal Services - Driggers v. MIDD Invoice held 2/13/17 for further review	Resubmitted for payment per Aloia and Associates review	
		Manning	Kirk, Huth, Lange & Badalamenti, PLC	\$ 1,062.50	Invoice #80332 - Driggers v MIDD Legal Services - ending 1/26/17 Basement Flooding	Basement Flooding Lawsuit - Transition to Aloia	
		Astorino	Lifting Gear Hire	\$ 721.00	Invoice #6000019987 - 2/21/17 Rental charges for man-basket	Basket used to enter screening room (CSE) to view blockage in Lakeshore Interceptor	
		Astorino	National Door Systems, LLC	\$ 750.00	Invoice #38627 - R - 2-19-17 - Replace corroded wires due to corrosive conditions/repair same		
		Astorino	Presidio	\$ 14,143.05	Invoice #152485 - 12/20/16	Fiber installation	
		1.5 Mile Sinkhole		Bantios	Anderson, Eckstein & Westrick, Inc.	\$ 783,543.20	Invoice #0112998 - 12/24/16 - 1/8/17 Engineering Services
Bantios	Anderson, Eckstein & Westrick, Inc.			\$ 1,291,864.25	Invoice #0113109 - 1/9/17 - 2/5/17 Engineering Services	Sinkhole Engineering	
Astorino	DTE Energy			\$ 21,011.80	Temporary power-drop 15203 E. 15 Mile Road, Clinton Township		
Astorino	DTE Energy			\$ 17,867.98	Temporary power-drop 15474 E. 15 Mile Road, Clinton Township		

CHAPTER 20 MACOMB INTERCEPTOR DRAIN BOARD - 3/13/17

Funding Source	Appropriation	Manager	Vendor	Amount	Invoice Detail	Project Summary	Available Project Balance
Macomb Interceptor Drain (continued)	15 Mile Sinkhole (continued)	Astorino	DTE Energy	\$ 2,651.23	De-energization of 3-phase overhead lines Fontana & 15 Mile Road		
		Astorino	DTE Energy	\$ 18,158.46	Temporary power-drop 15296 E. 15 Mile Road, Clinton Township		
		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 5,987.50	Invoice #364201 - 2016 Sinkhole Engineering Services - ending 1/27/17	Analysis of Replacement Pipe	
		Astorino	Fraser Senior Housing	\$ 3,175.00	Invoice #7321-2017		
		Astorino	HESCO	\$ 26,125.00	Lease payment - January - March 2017 George & Lillian Raimondi Invoice #1015469 - 2/22/17	Sodium Hypochlorite pumps/Rotameter Panels	
		Astorino	IDEXX Laboratories	\$ 624.82	Invoice #3011495175 - 1/17/17 Lab Supplies	Sinkhole - E.coli testing	
		Manning	Kirk, Huith, Lange & Badalamenti, PLC	\$ 22,789.54	Invoice #80033 - 2016 Sinkhole Legal fees - ending 1/5/17	Resubmitted for payment per Aloia and Associates review	
		Manning	Kirk, Huith, Lange & Badalamenti, PLC	\$ 922.32	Invoice held 2/13/17 for further review Invoice #80296 - 2016 Sinkhole Legal Fees - ending 1/5/17	Sinkhole - Temporary Easements	
		Astorino	New Pig	\$ 588.55	Invoice #22121990-00 - 1/30/17	Booms used for containment	
		Astorino	New Pig	\$ 7,605.63	Invoice #22125881-00 - 2/3/17	Collapse-A-Tainer spill containment berm	
		Astorino	New Pig	\$ 1,610.16	Invoice #22126313-00 - 2/7/17	Skimmer booms	
		Bantios	Ric-Man Construction, Inc.	\$ 5,690,745.00	Pay Estimate 1 - 3 - 12/24/16 - 2/4/17	50% partial payment for sinkhole repair project	
		Manning	Viviano Law	\$ 1,824.00	Invoice #18529 - Legal Services - ending 1/27/17	Sinkhole	
		Macomb Element & Sterling Heights Arm SRF	SRF 5624-01	Manning	Bank of New York Mellon	\$ 26,328.89	Debt Service Payment

CHAPTER 20 MACOMB INTERCEPTOR DRAIN BOARD -- 3/13/17

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Available Project Balance
Macomb Interceptor Drain (continued) Macomb Element & Sterling Heights Ann SRF (continued)	SRF 5624-01	Astorino	Giffels-Webster	\$ 24,426.25	Invoice #112374 - MID SRF Engineering Services - September 2016	Manhole Rehab - 18 Mile Rd./23 Mile Rd.	
	SRF 5624-01	Astorino	Giffels-Webster	\$ 19,653.75	Invoice #112961 - MID SRF Engineering Services - December 2016	Manhole Rehab - 18 Mile Rd./23 Mile Rd.	
	SRF 5624-01	Astorino	Launzo Lining Services, Inc.	\$ 124,578.40	Construction Pay Application #10	Manhole Rehab - 18 Mile Rd./23 Mile Rd.	
Meters	SRF 5487-01	Manning	Bank of New York Mellon	\$ 433,431.23	Debt Service Payment	Meter Rehab/Repair Project	
		Astorino	DTE Energy	\$ 530.30	Monthly Electrical	16 metering sites	
		Astorino	DTE Energy	\$ 1,160.77	Monthly Electric - Meter CH-S-3		
		Astorino	Martin Control Services	\$ 2,128.00	Invoice #9996 - Continuing maintenance on meters	As-needed Repair	
		Astorino	Martin Control Services	\$ 13,680.00	Application #3 - Meter Repair - Ongoing maintenance/repair	MID Meter Maintenance	
North Gratiot Interceptor		Astorino	DE-CAL, Inc.	\$ 24,096.00	Invoice #WO17000841 - 1/25/17	Air Relief Valve repair and maintenance	
		Astorino	DE-CAL, Inc.	\$ 13,187.00	Invoice #WO17000842 - 1/27/17	Air Relief Valve repair and maintenance	
		Astorino	National Industrial Maintenance	\$ 800.00	Invoice #28264 - NGI - Vactor out rock basket - cleanup	Routine Maintenance	
OMID		Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 2,197.00	Invoice #365525 - ending 2/24/17 Engineering Services	Attending OMID meetings, preparation of OMID allocations	
		Manning	Kirk, Huith, Lange & Badalamenti, PLC	\$ 1,562.50	Invoice #80329 - Legal Services - ending 1/30/17	Transition to Aloia/Viviano	
		Manning	Oakland County Treasurer	\$ 182,010.40	Invoice #SDS0004816 - Debt Service Payment - Series 2010B	Macomb County collects debt service from 11 Sewer District Communities and pays Oakland County	

CHAPTER 20 MACOMB INTERCEPTOR DRAIN BOARD - 3/13/17

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Available Project Balance
Macomb Interceptor Drain (continued)		Manning	Oakland County Treasurer	\$ 62,437.58	Invoice #SDS0004826 - Debt Service Payment - 2/2015 - 8/2016 Interest	Macomb County collects debt service from 11 Sewer District Communities and pays Oakland County	
OMID (continued)		Manning	Oakland County Treasurer	\$ 1,517,616.05	Invoice #SDS0004892 - Debt Service Payment	Macomb County collects debt service from 11 Sewer District Communities and pays Oakland County	
		Astorino	Oakland County Treasurer	\$ 4,115,595.25	Invoice #SDS0004946 - February 2017	Sewage Disposal Charges	
		Manning	Viviano Law	\$ 893.00	Invoice #18531 - OMIDDD Litigation		
				<u>\$ 14,698,888.88</u>			

8 1/2 Mile Relief Drain

Operation, Maintenance & Repair Reimbursement Work Order Project Report

Drain	<u>MIDD</u>	Invoice Period	12/31/16 - 1/27/17
Account #		Invoice No.	002-17
Drain #		Wisner #	

DESCRIPTION:

WORK PERFORMED:

Daily Monitoring - 12/31/16 - 1/27/17

PERSONNEL	STAFF HOURS	1.5 OT HOURS	HOURLY RATE WITH FRINGE	1.5 OT RATE	SUB TOTAL
BUGAMELLI			23.36		0.00
DEHRING (12/31, 1/9, 1/10, 1/13, 1/15, 1/19, 1/21)	4		40.43	43.38	161.72
LAVIGNE (1/25)	1		40.43	43.38	40.43
LUPO (1/2, 1/3, 1/6, 1/8, 1/12, 1/14, 1/18, 1/23, 1/24, 1/27)	10		40.43	43.38	404.30
SCHMEISER			40.43	43.38	0.00
TROMBLEY (1/1, 1/5, 1/7, 1/11, 1/16, 1/20, 1/22, 1/26)	8		40.43	43.38	323.44

TOTAL: \$ 929.89

Date	<u>2.23.17</u>
Chief Deputy	<u>AB</u>
Engineer(s)	<u>JA</u>
Manager(s)	
Coordinator(s)	<u>BD</u>
Finance Officer	<u>[Signature]</u>

70200 PA035112
62600 RVO13398

Staff 3-7-17

Board 3-13-17

8 1/2 Mile Relief Drain

Operation, Maintenance & Repair Reimbursement Work Order Project Report

Drain <u>MCWDD</u>	Invoice Period <u>1/28/17 - 2/24/17</u>
Account # _____	Invoice No. <u>013-17</u>
Drain # _____	Wisner # _____
DESCRIPTION:	
WORK PERFORMED:	
Daily Monitoring - 1/28/17 - 2/24/17	

PERSONNEL	STAFF HOURS	1.5 OT HOURS	HOURLY RATE WITH FRINGE	1.5 OT RATE	SUB TOTAL
BUGAMELLI			23.36		0.00
DEHRING (1/30, 1/31, 2/3, 2/5, 2/9, 2/11, 2/21, 2/24)	8		40.43	43.38	323.44
LAVIGNE (2/4, 2/15)	2		40.43	43.38	80.86
LUPO (1/29, 2/2, 2/8, 2/13, 2/14, 2/17, 2/19, 2/23)	8		40.43	43.38	323.44
SCHMEISER			40.43	43.38	0.00
TROMBLEY (1/26, 2/1, 2/7, 2/10, 2/12, 2/16, 2/18, 2/22)	8		40.43	43.38	323.44

TOTAL: \$1,051.18

Date	<u>3-1-17</u>
Chief Deputy	<u>Bo</u>
Engineer(s)	<u>do</u>
Manager(s)	
Coordinator(s)	
Finance Officer	<u>brm</u>

70200 PA 035188
62600 RV013430



Fishbeck, Thompson, Carr & Huber, Inc.
engineers | scientists | architects | constructors

Federal I.D. No. 38-1841857 | Incorporated

MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

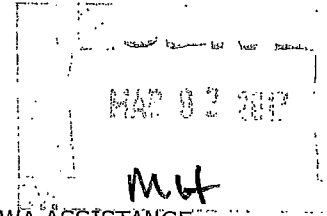
1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 28, 2017
G170075 MES
ACCOUNT NO: 120985

INVOICE NO: 365523



MR VINCENT ASTORINO
MACOMB COUNTY PUBLIC WORKS
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/GLWA ASSISTANCE

THIS INVOICE IS FOR THE BILLING PERIOD THROUGH 02/24/2017
WORK INCLUDED ATTENDING GLWA WATF MEETING, SEVERAL IN-HOUSE
SEWER SHARES MEETINGS, A&G MEETING, MEETING W/ SUE COFFEE ON
SEWER SHARES, RATES ROLLOUT MEETING, AND WORK ON MINORITY
REPORT

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	32.00	\$139.00	\$4,448.00
<u>REIMBURSABLE EXPENSES:</u>			
MILEAGE			\$42.71

TOTAL THIS INVOICE \$4,490.71

Chg: MID #3000

3-2-17

Unit Deputy _____ AB

Engineer(s) _____ de

Manager(s) _____

Coordinator(s) _____

Finance Clerk _____

PA035190 80300

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829



City of Mount Clemens
One Crocker Blvd.
Mount Clemens, MI 48043

MACOMB COUNTY PUBLIC WORKS
P.O. BOX 806
MOUNT CLEMENS, MI 48043

INVOICE

Customer Number: 8052 Invoice Date: 02/08/2017 Invoice No.: 11516

FOR/LOCATION
SEWAGE FLOW BILLING 12/17/16 -
01/13/17

Description	Original Bill	Adjusted	Paid	Amount Due
SEWAGE FLOW BILLING	9314.24	.00	.00	9314.24
QTY 1.00 @ 9314.24 PER EACH				
SEWAGE FLOW BILLING	938.51	.00	.00	938.51
QTY 1.00 @ 938.51 PER EACH				
DEFERRED REVENUE	7454.93	.00	.00	7454.93
QTY 1.00 @ 7454.93 PER EACH				

Net Payments	Amount Due
TERMS: NET 30 DAYS - 5% PENALTY ADDED AFTER	17,707.68
Message	



City of Mount Clemens
One Crocker Blvd.
Mount Clemens, MI 48043

MACOMB COUNTY PUBLIC WORKS
P.O. BOX 806
MOUNT CLEMENS, MI 48043

INVOICE

Remit Portion
Please return this portion with your payment

Customer Number: 8052 Invoice Date: 02/08/2017 Invoice No.: 11516

Total:
17,707.68

DATE: 2-16-17

CHIEF DEPUTY: AB

ENGINEER(S): VA

MANAGER(S): _____

COORDINATOR(S): BD

FINANCIAL MANAGER: blm

CHARGE: MIDD #3000

Staff 3-7-17
Board 3-13-17

PA035063 92901

giffels webster

28 W. Adams, Suite 1200
Detroit, MI 48226
(313) 962-4442

FEB 13 2017
MH

MACOMB COUNTY DEPT OF PUBLIC WORKS
21777 DUNHAM ROAD
CLINTON TWP, MI 48036

Invoice No.: 112960
Date: 01/16/2017
Project No.: 1839503

**Project: MID SAW GRANT - SAW GRANT NO. 1128-01
Project #1839503**

For professional services through December 31, 2016

Description	Contract Amount	Percent Complete	Total Complete	Previously Invoiced	Due This Invoice
Task 1 - Saw Grant Preparation	57,500.00	77 %	43,990.00	43,990.00	0.00
Task 2 - Videotaping & Reports	2,108,784.00	2 %	47,396.25	35,060.00	12,336.25
Task 3 - GIS Coordination	39,600.00	3 %	1,303.00	723.00	580.00
Task 4 - Traffic Control Implementation	192,750.00	0 %	360.00	360.00	0.00
Task 5 - Cost Estimate	21,000.00	0 %	0.00	0.00	0.00
Task 6 - Loan Preparation	62,100.00	0 %	0.00	0.00	0.00
Task 7 - Project Administration & Management	88,500.00	4 %	3,915.00	3,697.50	217.50
Total	2,570,234.00		96,964.25	83,830.50	13,133.75



Submitted By: Steven Siklich/Senior Project Manager

#3000
Chg: MID (SAW 1128-01)

2-13-17

Contract No.	AB
Engineer(s)	VA
Manager(s)	
Coordinator(s)	BD
Finance Officer	km

Staff 2-21-17
2-13-17

PA035012 80300

Task 2 - Videotaping & Reports

Professional Personnel

STAFF ENGINEER	34.00	80.00	2,720.00
PROJECT ENGINEER	68.75	90.00	6,187.50
SENIOR PROJECT MANAGER	13.00	145.00	1,885.00
SENIOR PROJECT SPECIALIST	2.00	160.00	320.00
INTERN	22.25	55.00	1,223.75
Professional Personnel Subtotal			<u>12,336.25</u>

Task 2 - Videotaping & Reports Subtotal 12,336.25

Task 3 - GIS Coordination

Professional Personnel

GIS MANAGER	1.00	120.00	120.00
GIS SPECIALIST	5.00	92.00	460.00
Professional Personnel Subtotal			<u>580.00</u>

Task 3 - GIS Coordination Subtotal 580.00

Task 7 - Project Administration & Management

Professional Personnel

SENIOR PROJECT MANAGER	1.50	145.00	217.50
Professional Personnel Subtotal			<u>217.50</u>

Task 7 - Project Administration & Management Subtotal 217.50

Invoice total 13,133.75

Invoice Supporting Detail

Task 2 - Videotaping & Reports

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
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Labor

STAFF ENGINEER

Joshua M. Garvin

12/19/2016	8.50	80.00	680.00
12/20/2016	8.50	80.00	680.00
12/21/2016	8.50	80.00	680.00
12/23/2016	8.50	80.00	680.00
Subtotal	34.00		2,720.00

PROJECT ENGINEER

Jonathan P. Bixby

12/06/2016	1.25	90.00	112.50
12/07/2016	7.00	90.00	630.00
12/08/2016	7.00	90.00	630.00
12/09/2016	5.00	90.00	450.00
12/12/2016	1.50	90.00	135.00
12/13/2016	4.00	90.00	360.00
12/14/2016	4.00	90.00	360.00
12/15/2016	3.00	90.00	270.00
12/19/2016	1.00	90.00	90.00
12/20/2016	0.50	90.00	45.00
12/21/2016	7.00	90.00	630.00
12/22/2016	5.50	90.00	495.00
Subtotal	46.75		4,207.50

Michael T. Budzyn

12/14/2016	1.00	90.00	90.00
12/07/2016	5.50	90.00	495.00
12/07/2016	0.50	90.00	45.00
12/09/2016	1.00	90.00	90.00
12/12/2016	1.00	90.00	90.00
12/13/2016	1.00	90.00	90.00
12/15/2016	2.00	90.00	180.00
12/15/2016	1.00	90.00	90.00
12/16/2016	0.50	90.00	45.00
12/19/2016	1.00	90.00	90.00
12/21/2016	1.00	90.00	90.00
Subtotal	15.50		1,395.00

Rachel C. Jackson

12/20/2016	1.50	90.00	135.00
12/22/2016	5.00	90.00	450.00
Subtotal	6.50		585.00

SENIOR PROJECT MANAGER

Steven M. Siklich

12/06/2016	0.50	145.00	72.50
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Invoice Supporting Detail

Task 2 - Videotaping & Reports

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/12/2016	1.00	145.00	145.00
12/13/2016	1.00	145.00	145.00
12/14/2016	2.00	145.00	290.00
12/15/2016	2.00	145.00	290.00
12/16/2016	1.00	145.00	145.00
12/19/2016	1.50	145.00	217.50
12/20/2016	1.50	145.00	217.50
12/21/2016	0.50	145.00	72.50
12/22/2016	1.00	145.00	145.00
12/23/2016	1.00	145.00	145.00
Subtotal	13.00		1,885.00

Labor

SENIOR PROJECT MANAGER
 Steven M. Siklich

SENIOR PROJECT SPECIALIST
 James P. Pistilli

12/14/2016	2.00	160.00	320.00
Subtotal	2.00		320.00

INTERN

Timothy J. Palnau

12/12/2016	4.00	55.00	220.00
12/14/2016	4.50	55.00	247.50
12/21/2016	7.75	55.00	426.25
12/22/2016	4.50	55.00	247.50
12/14/2016	1.50	55.00	82.50
Subtotal	22.25		1,223.75
Labor total	140.00		12,336.25

Task 2 - Videotaping & Reports Subtotal 12,336.25

Task 2 - Videotaping & Reports Summary

Type	Contract	Billed	%	Remaining	%
Labor	2,108,784.00	47,396.25	2	2,061,387.75	98
Total	2,108,784.00	47,396.25	2	2,061,387.75	98

Task 3 - GIS Coordination

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
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Labor

GIS MANAGER
 Jacob R. Blind

Invoice Supporting Detail

Task 3 - GIS Coordination

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
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Labor

GIS MANAGER
 Jacob R. Blind

12/08/2016	1.00	120.00	120.00
Subtotal	1.00		120.00

GIS SPECIALIST
 Keith P. Rikli

12/08/2016	2.00	92.00	184.00
12/09/2016	2.00	92.00	184.00
12/12/2016	1.00	92.00	92.00
Subtotal	5.00		460.00
Labor total	6.00		580.00

Task 3 - GIS Coordination Subtotal 580.00

Task 3 - GIS Coordination Summary

Type	Contract	Billed	%	Remaining	%
Labor	39,600.00	1,303.00	3	38,297.00	97
Total	39,600.00	1,303.00	3	38,297.00	97

Task 7 - Project Administration & Management

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
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Labor

SENIOR PROJECT MANAGER
 Steven M. Siklich

12/05/2016	1.50	145.00	217.50
Subtotal	1.50		217.50
Labor total	1.50		217.50

Task 7 - Project Administration & Management Subtotal 217.50

Task 7 - Project Administration & Management Summary

Type	Contract	Billed	%	Remaining	%
Labor	88,500.00	3,915.00	4	84,585.00	96
Total	88,500.00	3,915.00	4	84,585.00	96

Invoice Supporting Detail

Invoice Summary

Type	Contract	Billed	%	Remaining	%
Labor	2,570,234.00	96,964.25	4	2,473,269.75	96
Expense					
Consultant					
Total	2,570,234.00	96,964.25	4	2,473,269.75	96



Supplemental Documentation

To: Evans Bantios, P.E., MCPWO

Date: January 31, 2017

From: Steve Siklich, P.E.

Project: SAW 1128-01 MID SAW Grant

Project Number: 18395.03
MCPWO No: SAW 1128-01

RE: **SAW 1128-01 Supplemental Billing Documentation**

Below is a summary of task information for the above-mentioned invoice submitted. Project details are provided for the billing time period only and may not reflect current status of each phase. More detail can be provided upon request.

WORK COMPLETED (Through December 31, 2016)
(Giffels Webster Invoice 112960)

Invoice No. 112960 (Dated 1-16-17)

Task 2 – Videotaping & Reports

- Retrieve and update flow calculations
- Input manhole characteristic data for access
- Update previous repair as-built info
- Provide ROW and easement layouts along alignment
- Prepare and submit soil erosion plans, traffic control plans
- Prepare contract documents to be used in bidding
 - Update scope, bid forms, and pay item specifications
- Provide 80% draft plans for owner review
- Review geophysical survey needs and required efforts for void identification

Task 3 – GIS Coordination

- Update connection layers to interceptor and plot overall aerial maps

Task 7 – Project Administration & Management

- Project oversight
- Discussions with DEQ and Owner
 - Related to scope of project
 - Related to funding needs
 - Prepare accelerated schedule update



1/16/2017
MH

Please Remit to:
Giffels Webster
28 W. Adams, Suite 1200, Detroit, MI 48226
Phone: 313-962-4442

MACOMB COUNTY DEPT. OF PUBLIC WORKS
21777 DUNHAM ROAD
CLINTON TWP, MI 48036

DATE: 1/16/2017
INVOICE: 112971
PROJECT: 18560.00

PROJECT: MCWDD SAW GRANT STUDIES AND ASSET MANAGEMENT PLAN
SAW 1130-01

Professional Services for the Period From 12/04/2016 to 12/31/2016

DESCRIPTION	BASIS	CONTRACT AMOUNT	TOTAL COMPLETE	REMAINING BUDGET	PREVIOUSLY INVOICED	DUE THIS INVOICE
Task 1 - SAW Grant Preparation	T&M	\$ 30,000.00	\$ 29,997.50	\$ 2.50	\$ 29,997.50	\$ -
Task 2 - Design Costs	T&M	\$ 126,210.00	\$ -	\$ 126,210.00	\$ -	\$ -
Task 3 - Asset Management Plan	T&M	\$ 250,000.00	\$ -	\$ 16,014.25	\$ -	\$ -
3A - Level of Service	T&M	\$ 55,000.00	\$ 39,721.25	\$ 15,278.75	\$ 39,721.25	\$ -
3B - Criticality of Assets	T&M	\$ 100,000.00	\$ 99,885.75	\$ 114.25	\$ 98,885.75	\$ 1,000.00
3C - O&M Strategies	T&M	\$ 55,000.00	\$ 54,651.25	\$ 348.75	\$ 53,076.25	\$ 1,575.00
3D - Long-term Funding & Capital Improvement	T&M	\$ 40,000.00	\$ 39,727.50	\$ 272.50	\$ 37,755.00	\$ 1,972.50
Task 4 - Inventory	T&M	\$ 357,590.00	\$ 329,883.45	\$ 27,706.55	\$ 325,574.70	\$ 4,308.75
Task 5 - Condition Assessment (Excludes Televising)	T&M	\$ 135,000.00	\$ 133,147.25	\$ 1,852.75	\$ 133,147.25	\$ -
Task 6 - GIS System & Coordination	T&M	\$ 381,344.00				
6A - GIS/AM System	T&M	\$ 297,894.00	\$ -	\$ 297,894.00	\$ -	\$ -
6B - GIS/AM Coordination	T&M	\$ 40,000.00	\$ 39,997.00	\$ 3.00	\$ 39,997.00	\$ -
6C - GIS/AM Grant Ineligible System Expenses	T&M	\$ 43,450.00	\$ -	\$ 43,450.00	\$ -	\$ -
Task 7 - Televising Structures	T&M	\$ 837,784.00	\$ 490,697.15	\$ 347,086.85	\$ 490,697.15	\$ -
Task 8 - Financial Consulting Services	T&M	\$ 12,100.00	\$ -	\$ 12,100.00	\$ -	\$ -
Task 9 - Project Admin & Management	T&M	\$ 250,000.00	\$ 198,191.00	\$ 51,809.00	\$ 195,106.00	\$ 3,085.00
Task 10 - Training/Certification	T&M	\$ 10,000.00	\$ 690.00	\$ 9,310.00	\$ 690.00	\$ -
Task 11 - SAW/SRF Project Proposal	T&M	\$ 40,000.00				
11A - SAW/SRF Project Proposal, Grant Ineligible Expenses		\$ 40,000.00	\$ 31,197.50	\$ 8,802.50	\$ 19,220.00	\$ 11,977.50
SUB-TOTAL BASIC SERVICES		\$ 2,430,028.00	\$ 1,487,786.60	\$ 942,241.40	\$ 1,463,867.85	\$ 23,918.75

Amount Due This Invoice \$ 23,918.75

#3000

Chg: MIDD (SAW 1130-01)

Submitted By: Steven Siklich/Senior Project Manager

Date: 2-13-17

Chief Deputy: MB

Engineer(s): NA

Manager(s): -

Coordinator(s): BE

Finance Officer: 1/13/17

U-till 2-21-17
Board 3-13-17

PA-035011 80300

Criticality of Assets

Professional Personnel

STAFF ENGINEER	12.50	80.00	1,000.00
			<u>1,000.00</u>
Professional Personnel Subtotal			<u>1,000.00</u>
Criticality of Assets Subtotal			1,000.00

O&M Strategies

Professional Personnel

PROJECT ENGINEER	17.50	90.00	1,575.00
			<u>1,575.00</u>
Professional Personnel Subtotal			<u>1,575.00</u>
O&M Strategies Subtotal			1,575.00

Long-term Funding & Capital Improvement

Professional Personnel

PROJECT ENGINEER	19.50	90.00	1,755.00
SENIOR PROJECT MANAGER	1.50	145.00	217.50
			<u>1,972.50</u>
Professional Personnel Subtotal			<u>1,972.50</u>
Long-term Funding & Capital Improvement Subtotal			1,972.50

Inventory

Professional Personnel

STAFF ENGINEER	8.00	80.00	640.00
PROJECT ENGINEER	40.00	90.00	3,600.00
INTERN	1.25	55.00	68.75
			<u>4,308.75</u>
Professional Personnel Subtotal			<u>4,308.75</u>
Inventory Subtotal			4,308.75

Project Administration & Management

Professional Personnel

PROJECT ENGINEER	5.25	90.00	472.50
PARTNER	5.00	160.00	800.00
SENIOR PROJECT MANAGER	12.50	145.00	1,812.50
			<u>3,085.00</u>
Professional Personnel Subtotal			<u>3,085.00</u>
Project Administration & Management Subtotal			3,085.00

SAW/SRF Project Proposal

Professional Personnel

STAFF ENGINEER	48.00	80.00	3,840.00
PROJECT ENGINEER	69.00	90.00	6,210.00
SENIOR PROJECT MANAGER	9.50	145.00	1,377.50
INTERN	10.00	55.00	550.00
			<u>11,977.50</u>
Professional Personnel Subtotal			<u>11,977.50</u>
SAW/SRF Project Proposal Subtotal			11,977.50

MACOMB COUNTY DEPT OF PUBLIC WORKS
Project 1856000 MCWDD SAW GRANT STUDIES AND ASSET MANAGEMENT PLAN

Invoice number 112971
Date 01/16/2017

Invoice total 23,918.75

Invoice Supporting Detail

Criticality of Assets

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/05/2016	2.50	80.00	200.00
12/08/2016	1.00	80.00	80.00
12/12/2016	2.50	80.00	200.00
12/13/2016	4.00	80.00	320.00
12/14/2016	2.50	80.00	200.00
Subtotal	12.50		1,000.00
Labor total	12.50		1,000.00

Labor

STAFF ENGINEER
 Joshua M. Garvin

Criticality of Assets Subtotal 1,000.00

Criticality of Assets Summary

Type	Contract	Billed	%	Remaining	%
Labor	100,000.00	77,715.75	78	22,284.25	22
Total	100,000.00	77,715.75	78	22,284.25	22

O&M Strategies

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/15/2016	4.00	90.00	360.00
12/18/2016	2.00	90.00	180.00
12/19/2016	5.00	90.00	450.00
12/20/2016	3.50	90.00	315.00
12/21/2016	3.00	90.00	270.00
Subtotal	17.50		1,575.00
Labor total	17.50		1,575.00

Labor

PROJECT ENGINEER
 Rachel C. Jackson

O&M Strategies Subtotal 1,575.00

Invoice Supporting Detail

O&M Strategies Summary

Type	Contract	Billed	%	Remaining	%
Labor	55,000.00	42,523.75	77	12,476.25	23
Consultant		12,127.50		-12,127.50	
Total	55,000.00	54,651.25	99	348.75	1

Long-term Funding & Capital Improvement

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

PROJECT ENGINEER

Rachel C. Jackson

12/05/2016	5.50	90.00	495.00
12/05/2016	1.00	90.00	90.00
12/07/2016	3.00	90.00	270.00
12/09/2016	2.00	90.00	180.00
12/13/2016	4.00	90.00	360.00
12/15/2016	4.00	90.00	360.00
Subtotal	19.50		1,755.00

SENIOR PROJECT MANAGER

Steven M. Siklich

12/07/2016	0.50	145.00	72.50
12/09/2016	1.00	145.00	145.00
Subtotal	1.50		217.50
Labor total	21.00		1,972.50

Long-term Funding & Capital Improvement Subtotal 1,972.50

Long-term Funding & Capital Improvement Summary

Type	Contract	Billed	%	Remaining	%
Labor	40,000.00	39,727.50	99	272.50	1
Total	40,000.00	39,727.50	99	272.50	1

Inventory

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

STAFF ENGINEER

Joshua M. Garvin

12/12/2016	2.00	80.00	160.00
12/14/2016	1.00	80.00	80.00
12/12/2016	2.00	80.00	160.00
12/13/2016	3.00	80.00	240.00

Invoice Supporting Detail

Inventory

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

STAFF ENGINEER

Subtotal	8.00		640.00
----------	------	--	--------

PROJECT ENGINEER

Rachel C. Jackson

12/06/2016	4.50	90.00	405.00
12/07/2016	2.50	90.00	225.00
12/09/2016	2.00	90.00	180.00
12/12/2016	4.00	90.00	360.00
12/12/2016	4.00	90.00	360.00
12/13/2016	5.00	90.00	450.00
12/14/2016	3.00	90.00	270.00
12/14/2016	4.00	90.00	360.00
12/16/2016	2.00	90.00	180.00
12/19/2016	4.00	90.00	360.00
12/20/2016	3.00	90.00	270.00
12/21/2016	2.00	90.00	180.00
Subtotal	40.00		3,600.00

INTERN

Timothy J. Palnau

12/05/2016	0.25	55.00	13.75
12/12/2016	1.00	55.00	55.00
Subtotal	1.25		68.75
Labor total	49.25		4,308.75

Inventory Subtotal 4,308.75

Inventory Summary

Type	Contract	Billed	%	Remaining	%
Labor	357,590.00	198,427.75	55	159,162.25	45
Consultant		83,580.70		-83,580.70	
Total	357,590.00	282,008.45	79	75,581.55	21

Project Administration & Management

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

PROJECT ENGINEER

Rachel C. Jackson

12/08/2016	1.50	90.00	135.00
12/09/2016	1.50	90.00	135.00
12/16/2016	0.25	90.00	22.50

Invoice Supporting Detail

Project Administration & Management

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
Labor			
PROJECT ENGINEER			
Rachel C. Jackson			
12/22/2016	2.00	90.00	180.00
Subtotal	5.25		472.50
PARTNER			
Paulin G. Modi			
12/06/2016	1.00	160.00	160.00
12/14/2016	1.00	160.00	160.00
12/15/2016	1.00	160.00	160.00
12/21/2016	2.00	160.00	320.00
Subtotal	5.00		800.00
SENIOR PROJECT MANAGER			
Steven M. Siklich			
12/05/2016	1.00	145.00	145.00
12/07/2016	1.00	145.00	145.00
12/08/2016	2.00	145.00	290.00
12/09/2016	0.50	145.00	72.50
12/12/2016	1.00	145.00	145.00
12/13/2016	1.50	145.00	217.50
12/14/2016	1.00	145.00	145.00
12/15/2016	0.50	145.00	72.50
12/16/2016	1.00	145.00	145.00
12/19/2016	1.50	145.00	217.50
12/20/2016	0.50	145.00	72.50
12/21/2016	0.50	145.00	72.50
12/22/2016	0.50	145.00	72.50
Subtotal	12.50		1,812.50
Labor total	22.75		3,085.00

Project Administration & Management Subtotal 3,085.00

Project Administration & Management Summary

Type	Contract	Billed	%	Remaining	%
Labor	250,000.00	143,993.50	58	106,006.50	42
Consultant		28,297.50		-28,297.50	
Total	250,000.00	172,291.00	69	77,709.00	31

Invoice Supporting Detail

SAW/SRF Project Proposal

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

STAFF ENGINEER

Joshua M. Garvin

12/05/2016	2.00	80.00	160.00
12/05/2016	3.00	80.00	240.00
12/06/2016	7.00	80.00	560.00
12/07/2016	7.00	80.00	560.00
12/08/2016	7.50	80.00	600.00
12/09/2016	4.00	80.00	320.00
12/09/2016	2.00	80.00	160.00
12/14/2016	2.00	80.00	160.00
12/15/2016	7.50	80.00	600.00
12/16/2016	2.50	80.00	200.00
12/16/2016	2.00	80.00	160.00
12/14/2016	1.50	80.00	120.00
Subtotal	48.00		3,840.00

PROJECT ENGINEER

Jonathan P. Bixby

12/05/2016	0.50	90.00	45.00
12/08/2016	0.50	90.00	45.00
12/14/2016	1.50	90.00	135.00
12/15/2016	4.00	90.00	360.00
12/16/2016	1.50	90.00	135.00
12/19/2016	7.25	90.00	652.50
12/20/2016	5.25	90.00	472.50
12/21/2016	0.50	90.00	45.00
12/22/2016	0.50	90.00	45.00
Subtotal	21.50		1,935.00

Michael T. Budzyn

12/05/2016	2.00	90.00	180.00
12/07/2016	0.50	90.00	45.00
12/08/2016	0.50	90.00	45.00
12/08/2016	6.00	90.00	540.00
12/09/2016	3.50	90.00	315.00
12/12/2016	2.00	90.00	180.00
12/13/2016	1.00	90.00	90.00
12/14/2016	4.50	90.00	405.00
12/14/2016	0.50	90.00	45.00
12/15/2016	2.50	90.00	225.00
12/16/2016	3.50	90.00	315.00
12/19/2016	5.00	90.00	450.00
12/20/2016	4.50	90.00	405.00
12/21/2016	5.00	90.00	450.00

Invoice Supporting Detail

SAW/SRF Project Proposal

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

PROJECT ENGINEER

Michael T. Budzyn

12/22/2016	5.50	90.00	495.00
Subtotal	46.50		4,185.00

Rachel C. Jackson

12/14/2016	1.00	90.00	90.00
Subtotal	1.00		90.00

SENIOR PROJECT MANAGER

Steven M. Siklich

12/06/2016	1.00	145.00	145.00
12/07/2016	0.50	145.00	72.50
12/08/2016	0.50	145.00	72.50
12/13/2016	0.50	145.00	72.50
12/15/2016	1.00	145.00	145.00
12/16/2016	0.50	145.00	72.50
12/19/2016	1.00	145.00	145.00
12/20/2016	1.50	145.00	217.50
12/21/2016	1.00	145.00	145.00
12/22/2016	1.00	145.00	145.00
12/23/2016	1.00	145.00	145.00
Subtotal	9.50		1,377.50

INTERN

Timothy J. Palnau

12/05/2016	5.75	55.00	316.25
12/07/2016	3.25	55.00	178.75
12/12/2016	1.00	55.00	55.00
Subtotal	10.00		550.00
Labor total	136.50		11,977.50

SAW/SRF Project Proposal Subtotal

11,977.50

SAW/SRF Project Proposal Summary

Type	Contract	Billed	%	Remaining	%
Labor	40,000.00	31,197.50	78	8,802.50	22
Total	40,000.00	31,197.50	78	8,802.50	22

Invoice Supporting Detail

Invoice Summary

Type	Contract	Billed	%	Remaining	%
Labor	2,430,028.00	984,338.00	41	1,445,690.00	59
Expense		690.00		-690.00	
Consultant		502,758.60		-502,758.60	
Total	2,430,028.00	1,487,786.60	61	942,241.40	39



Supplemental Documentation

To: Evans Bantios, P.E.

Date: February 6, 2017

From: Steve Siklich, P.E.

Project: MCWDD SAW Grant & AMP

Project Number: 18560.00
MCPWO No: SAW 1130-01

RE: SAW 1130-01 Supplemental Billing Documentation

Below is a summary of task information for the above-mentioned invoice submitted. Project details are provided for the billing time period only and may not reflect current status of each phase. More detail can be provided upon request.

WORK COMPLETED (Through December 31, 2016)
(Giffels Webster Invoice 112971)

Invoice No. 112971 (Dated 1-16-17)

Task 3 Asset Management Plan

- Continue to prepare Asset Management Report
 - Fine-tuning the Asset Inventory section that provides asset details for interceptor sewers, manholes, gates, metering facilities, the Biofilter, and associated assets, including:
 - Asset repair history
 - Sizes of assets
 - Length or depth of sewers and manholes
 - Materials for pipes, manholes,
 - Location and service area
 - Remaining life of assets
 - Condition of the assets
 - Rehabilitation costs
 - Review and revise criticality section of report
 - Provided criticality for sewers, manholes, gates, metering facilities, the Biofilter, and associated assets.
 - Present consequence of failure, probability of failure, and business risk factor of critical assets to include in CIP
 - Continue to work on OM&R section of report for MID interceptors, meter facilities, the Biofilter, and associated assets
 - Review OM&R needs for the MCWDD assets
 - Review recommended effective preventative maintenance activities for all assets
 - Provide details on the DEQ recommended Replacement Fund that will set aside money on an annual basis for items that will need to be replaced during the course of operating the system.
 - Continue to put together CIPP for all assets with a business risk factor of 16 and higher.

- Major surface waters
- Recreational facilities
- Continue to put together the rehabilitation plan sheets for the Drop Shaft and Connecting Sewer Rehab project.
- Internal review and revisions to the Project Plan
- Internal meetings to discuss and review the SRF Project Plan

WORK TO BE COMPLETED

- Finalize SRF project plan for eligible items for funding options
- GIS/NexGen rollout
- Construction of the Corrosion Control Facility
- Financial projections for AMP (Est. Final project completion by May 2017)

Johnson & Anderson

4494 Elizabeth Lake Road
 Waterford, Michigan 48328
 tel (248) 681-7800 fax (248) 681-2660

MLA

Macomb County Public Works
 Vince Astorino
 Commissioner Anthony V. Marrocco
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice number 40095
 Date 02/09/2017

Project 18098 DATA MANAGEMENT SYSTEMS SUPPORT

Services through January 28, 2017.

Professional services to provide improvements to convert MCMARS programs into the new system and support development of Bluewater.

Professional Fees

	Hours	Rate	Billed Amount
Technician V	46.00	95.00	4,370.00
Invoice total			4,370.00

Invoice Summary

Description	Contract Amount	Prior Billed	Total Billed	Remaining	Current Billed
CONSULTING SERVICES	68,000.00	39,730.00	44,100.00	23,900.00	4,370.00
Total	68,000.00	39,730.00	44,100.00	23,900.00	4,370.00

Approved by:



Terry E. Biederman

chg: MIDD # 3000

Date 2-16-17

Off. Deputy AB

Engineer(s) UA

Monitor(s) _____

Coordinator(s) BD

Finance Officer MM

PAY 35062

80300

Terms unless otherwise stated in the contract. Invoiced amounts are payable upon receipt. A finance charge of 1 1/2% per month will be charged on all balances over 30 days.

PLEASE RETURN BLUE COPY WITH YOUR REMITTANCE.

Stamp 3-7-17

Payment Terms:

Invoice Date

Invoice

Due Upon Receipt

01/17/2017

AR161117

REF DATE	DESCRIPTION	AMOUNT
01/17/2017	4TH QTR 16 MISTEROVICH SALARY	4,581.64
01/17/2017	4TH QTR 16 MISTEROVICH FRINGES	1,021.24
01/17/2017	4TH QTR 16 BUCCI SALARY	4,206.39
01/17/2017	4TH QTR 16 BUCCI FRINGES	937.60
Charges		10,746.87
Amount Due		10,746.87

JAN 20 2017
 ML

***** PLEASE RETURN THIS PORTION WITH YOUR PAYMENT *****

Finance Department Contact Number:

Tax ID # / EIN Number:

(586) 469-5251

38-6004868

Please email any questions about your account to:

Accounting@MacombGov.Org

Customer Number:

DPWK BA

Invoice Number:

AR161117

Invoice Date:

01/17/2017

Amount Due:

\$10,746.87

Please remit your payment to:

COUNTY OF MACOMB
 FINANCE DEPARTMENT
 120 NORTH MAIN STREET, 2nd FLOOR
 MOUNT CLEMENS, MI. 48043-5622

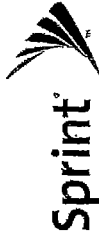
Chg MWD

Date 1.20.17
 Chief Deputy _____
 Engineer (P) _____
 Manager _____
 Coordinator BS _____
 Finance Officer MM _____

PA 034863 70200

Staff 2-7-17
 Record 2-12-17

YOUR SPRINT INVOICE



> ACCOUNT INFORMATION

Account Name
WASTEWATER SERVICES OF MACOMB COUNTY

Account Number
578736875

TIN Number
47-0882463

Invoice Number
578736875-064

Current P.O.
1977

Upgrade Program

Invoice Date
January 27, 2017

Total Amount Due
\$1,148.80

> CUSTOMER CARE

Register and Logon
www.sprint.com

Call Sprint
1-800-927-2199

> SPRINT NEWS AND NOTICES

This section contains important updates about your Sprint Services, including Service or Rate Changes, Promotions and Offers.

Correspondence

Please send all correspondence including billing inquiries to:
Sprint Customer Service
PO Box 629028
El Dorado Hills, CA 95762

Do not enclose your payment with the correspondence.
You may also contact Sprint Customer Care at the number listed on your invoice or by going to sprint.com.

Sprint is making changes to your bill to make it simpler and easier to read. Look for these exciting changes in the upcoming months.

> MONTHLY INVOICE SUMMARY

December 24 - January 23, 2017	
Previous Balance	388.48
Adjustments to previous balance	-134.38
Payments as of 01/25/17 - Thank you	-388.48
Outstanding Balance	-\$134.38
0001-Access and Related Items	899.08
0004-Messaging Services	0.80
0005-Data and Third Party Services	237.14
0007-Sprint Surcharges	10.45
0008-Government Fees and Taxes	1.33
*Total Current Charges for 578736875-064 Due 02/16/17	\$1,148.80
Total Amount Due	\$1,014.42

Ed
2-6-17
CR# 4094

Chg: MJD #3000

2-6-17

Chief Deputy /so

Engineer /VA

Manager(s)

Coordinator(s) DD

Finance Officer /MM

92600 \$341.63
80700 \$672.79
PA 034929

Staff 2.21.17
Board 3.13.17

> PAYMENT OPTIONS

To Pay Your Bill Online Go To
www.sprint.com/mysprint
Sign up for Recurring Direct Debit!

To Pay Your Bill By Phone Call
1-800-784-2608 or
*3 from your Sprint phone

To Pay Your Bill By Mail
See reverse side for details. >

WASTEWATER SERVICES OF MACOMB COUNTY
21777 DUNHAM RD
CLINTON TOWNSHIP, MI 48036-1005

MANIFESTLINE
#0000 Q578736875 B 4#
#BWNKGTX
PO Box 629028
El Dorado Hills, CA 95762

*Any unpaid balance after the due date may be subject to a late payment charge per your contract.



Invoice submitted to:
 Macomb County Department of Public Works
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice No. 18526
 Invoice Date: 2/8/2017
 Billing period: - 1/31/2017

Matter: General Matters

Previous balance		\$0.00
Payments and other transactions		\$0.00
Total fees		\$1,596.00
Total expenses	Chg Mid \$3000	\$1.00
Total new charges		\$1,597.00
Requested funds replenishment	2-8-17	\$0.00
Balance Due		\$1,597.00

 Engineer (s) _____
 Manager (s) _____
 Coordinator (s) BD
 Finance Officer DM

PA 035100 80400

Please detach this section and return it with your payment to ensure that your account is properly credited.

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

Invoice No. 18526
 Invoice Date: 2/8/2017



Previous balance	\$0.00
Transactions	\$0.00
New charges	\$1,597.00
Funds replenishment	\$0.00
Balance due	\$1,597.00
Payment amount	\$ <u>1597.00</u>

Staff 2.21-17



Invoice submitted to:
 Macomb Interceptor Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice No. 18530
 Invoice Date: 2/8/2017
 Billing period: - 1/31/2017

Matter: Inland Waters Litigation

Previous balance		\$0.00
Payments and other transactions		\$0.00
Total fees		\$1,178.00
Total expenses		\$0.00
Total new charges	<i>Chg: MIDAD - 15 mile Sewer Collapse</i>	\$1,178.00
Requested funds replenishment	<i>2.8.17</i>	\$0.00
Balance Due		\$1,178.00

Engineer (s)	_____
Manager (s)	_____
Coordinator (s)	<i>30</i>
Finance Officer	<i>both</i>

0092-05

PA034970 80400

Please detach this section and return it with your payment to ensure that your account is properly credited.

Macomb Interceptor Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice No. 18530
 Invoice Date: 2/8/2017



48 S. Main Street, Suite 2
 Mt. Clemens, MI 48043

Previous balance	\$0.00
Transactions	\$0.00
New charges	\$1,178.00
Funds replenishment	\$0.00
Balance due	\$1,178.00
Payment amount	\$ _____

*Staff 2.21.17
 Board 3.13.17*



Invoice submitted to:
 Macomb Interceptor Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice No. 18532
 Invoice Date: 2/8/2017
 Billing period: - 1/31/2017

Matter: Lenox Township / 26 Mile Road

Previous balance		\$0.00
Payments and other transactions		\$0.00
Total fees		\$1,719.50
Total expenses		\$0.00
Total new charges	<i>Chg MIDD (26 Mile Rehab)</i>	\$1,719.50
Requested funds replenishment	Date <u>2-8-17</u>	\$0.00
Balance Due		\$1,719.50

City 16
 Engineer(s) _____
 Manager(s) _____
 Coordinator(s) BD
 Finance Officer ham

PST 16-0005

PA034966 180400

Please detach this section and return it with your payment to ensure that your account is properly credited.

Macomb Interceptor Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice No. 18532
 Invoice Date: 2/8/2017



Previous balance	\$0.00
Transactions	\$0.00
New charges	\$1,719.50
Funds replenishment	\$0.00
Balance due	\$1,719.50
Payment amount	\$ <u>1719.50</u>

Staff 2-21-17

Board 3-13-17

3000

**Michigan Finance Authority
State Revolving Funds**

City: MIDDY (see 5540 MFI)

Mr. Ted B. Wahby, Treasurer
County of Macomb
1 S Main St, 2nd Floor
Mount Clemens, MI 48043
Phone: (586) 469-5190 Ext: Fax: (586) 469-6770
Email: treasurer@macombgov.org

2-21-17
Chief Deputy / AS
Engineer(s)
Manager(s)
Coordinator(s) BO
Finance Officer *KAW*

INVOICE

PA 035090

Project Number	ID	Loan Commitment	Principal	Interest	Total
5186-01/Final	CW	\$20,670,000.00	\$0.00	\$91,562.50	\$91,562.50
5186-02/Final	CW	\$13,630,000.00	\$0.00	\$60,375.00	\$60,375.00
5186-03/Final	CW	\$2,640,000.00	\$0.00	\$11,687.50	\$11,687.50
5186-04/Final	CW	\$5,550,000.00	\$0.00	\$24,562.50	\$24,562.50
5186-05/Final	CW	\$975,000.00	\$0.00	\$5,000.00	\$5,000.00
5487-01	CW	\$8,565,000.00	\$350,000.00	\$83,431.23	\$433,431.23
5540-01/Final	CW	\$2,249,999.00	\$0.00	\$19,649.99	\$19,649.99
5605-01	CW	\$3,145,000.00	\$0.00	\$13,615.50	\$13,615.50
165				99500	

Below please find three methods of payment to the Michigan Finance Authority

Preferred Method of Payment

Payment via Federal Wire Transfer for ALL Loan Types:

WIRE transfers MUST be initiated by 10:00 a.m. on **03/27/2017** and sent to:
The Bank of New York Mellon, N.A.
ABA: 021-000-018
A/C: 3919348400
Reference: 1483-MFA

Please note, the Reference information must be included on the wire transfer.

*Staff 3-7-17
Board 3-13-17*

Payment via ACH Transfer for ALL Loan Types:

To allow for processing time ACH transfers MUST be initiated by **03/23/2017** and sent to:
The Bank of New York Mellon, N.A.
ABA: 021-000-018
A/C: 8900626003
Reference: 1483-MFA

Please note, the Reference information must be included on the ACH transfer.

Payment By Check For ALL Loan Types

To allow for processing time checks must be **RECEIVED by 03/20/2017**.
For proper credit please include a copy of this invoice and note the reference: 1483-MFA on the check. Please mail your payment to:
The Bank of New York Mellon, N.A.

ATTN: Pooled Finance Unit - Robert Ferencik
10161 Centurion Parkway N.
Jacksonville, FL 32256

Oceanview Excavation

Bruce L. DeFrane
 1100 Wadhams Rd. St Clair, MI 48079
 810-650-5221
 Fax 810-329-3870

Invoice

MI

Date	Invoice #
2/9/2017	454

Bill To
Macomb County Public Works Att: Tom Stockel 21777 Dunham Clinton Twp., MI 48036

Chg: MIDD - (Biofilter)

Date	2.16.17
Chief Deputy	AS
Engineer(s)	TRS
Manager(s)	
Coordinator(s)	RD
Finance Officer	hwm

MID EMERGENCY REPAIR

PA035066 70100

Description	Amount
Biofilter Ventilation 16510 15 Mile	0.00
Remove three large trees (36" dia.) flush cut at ground line .All three trees are cottonwoods and aprox. 65' to 75' tall;	1,450.00
Dig up three(3)- 4" dia. trees and move over to the east property line out of the way of work area .Trees will be placed in a wood chip bedding area till work areas are finished . They can be replanted after work areas are finished at a later date.	350.00
Change order Take out 63 ft. of fence (9 section and 8 posts) and haul them over to Clintondale Pump Station. Post have 40 inches covered in concrete and takes a machine to remove and load and unload at pump station.	475.00
Material ;80 ft. of 12 " cmp with end section in ditch along Clarkson Dr. on a 6" bed of 21 aa limestone.	1,350.00
92.3 ton of 21aa limestone to cover pipe ,60 wide by 30 inches deep to match road grade and 15 ft into property from road . \$20.00 per ton Had to bring stone in smaller loads (3- 30 ton Loads,)	1,846.00
Strip ditch and 15 ft. of approach, set pipes and place stone with machines and labor (mini excavator and loader) 10 hours at 140.00 per hour	1,400.00

Total \$6,871.00

Staff 3-7-17
 Board 3-13-17



Charter Township of Clinton

Water & Sewer Division

P.O. Box 553160
 Detroit, Michigan 48255-3160



WATER & SEWER BILL

Customer Copy

Keep this portion for your records

Service Address:
 34975 UNION LAKE RD

Bill Date 01/31/2017	Amount Past Due \$0.00	Account Number 5305-34975-00-0
Due Date 02/23/2017	Current Charges \$763.35	Account Summary
Amount Due \$763.35		Last Payment Amount \$2,591.90
		Last Payment Date 01/20/2017
		Balance Forward \$0.00
		Current Charges \$763.35
		Total Amount Due 763.35
		*After 02/23/2017 801.52

Tray #: 3

*Includes 5% late fee

MACOMB COUNTY PUBLIC WORKS
 ATTN: GREG SANTO
 C/O: OR CURRENT OCCUPANT
 21777 DUNHAM RD
 CLINTON TOWNSHIP, MI 48036-1005



WINTER TAX BILLS ARE DUE BY FEBRUARY 28 2017. FOR YOUR CONVENIENCE, OUR TREASURER'S OFFICE WILL REMAIN OPEN UNTIL 6:30 PM ON FEBRUARY 7, 14 & 21 AND UNTIL 5:00 PM ON FEBRUARY 28, 2017 TO ACCEPT YOUR PAYMENTS.

Usage Information	Account Number 5305-34975-00-0		Consumption billed in hundreds of cubic feet			Bill Date 01/31/2017	
Description	Current Read Date	Previous Read Date	Current Meter Read	Previous Meter Read	Read Code*	Usage	Charge
WATER	1/24/2017	12/28/2016	5440	5351	A	89	\$722.85
WATER 2	1/24/2017	12/28/2016	4624	4476	A	148	\$0.00
ARB							\$1.50
GLWA FIXED MONTHLY FEE							\$4.00
CROSS CONN INSPECTION F							\$35.00
<p><i>chg: MIDDSD (#3000)</i></p> <p><i>date 2-7-17</i></p> <p><i>00016</i></p> <p><i>PA034956</i></p> <p><i>92100</i></p>							

*READ CODES: A= ACTUAL E= ESTIMATE (PLEASE CALL)

M-2-14-17

Staff 2-21-17
Board 3-13-17

RECEIVED
FEB 23 2017
M4

Pos: Complete Interactive Technologies, Inc.
44265 Groesbeck Highway
Clinton Twp., MI 48036
Phone: (586) 439-2000
Fax: (586) 439-2001
www.cci4solutions.com



Complete Interactive Technologies Inc.
Your Vision Our Solution

Invoice

Number: 51809
Date: 1/23/2017

Bill-To
Macomb County
120 N. Main
2nd Floor (Finance Department)
Mt. Clemens, MI 48043

Ship-To
Macomb County - Clintondale Pump Station
35029 Union Lake Road
Clinton Township, MI 48036

Source: S.O. No. 58905

Acct. No.	A/R Cust. No.	Acct. ID	Customer PO	Reference	Sales Rep	Ship Via	Terms
16438		MACCOU	David Palmer	Q32645	House 1		Due Upon Receipt

Work Performed: Four (4) Additional Data Cables at the Clintondale Pump Station...
Estimate#32645
Requested By: David Palmer 01/20/2017, Mark L. DeMaria:

- 01/23/17 CM & JB
- Ran four new data from data rack to the desired locations in the office.
- Data01-data04 are the locations.
- Delivery of a 24-port patch panel to Chris M. related to the additional data cables at the Clintondale pump station.

FILE COPY

Qty	Description	Unit Price	Total
4	Four (4) Additional Data Cables... Additional Category 6 Data Cabling, 100' in Length (Blue)	\$200.00	\$800.00
4	Additional Specified Jack, Category 6 (Orange)	\$6.50	\$26.00
4	Additional Specified Cat6 Patch Cables (1' in Length) (Blue)	\$1.50	\$6.00
4	Additional Specified Cat6 Patch Cables (15' in Length) (Blue)	\$7.50	\$30.00
1	Additional Specified Patch Panel, Category 6 (24-Port)	\$225.00	\$225.00
1.00	Labor Project Management	\$55.00	\$55.00

We are under the assumption that we can fish the data cable down the drywall. If we are unsuccessful, two sticks of Wiremold V700 will be required. CIT is pleased to offer the V700 at our unit pricing of \$100 for stick.

Qty: MIDD-CPS

Date 2-23-17
 Order Entry AB
 Engineer (s) UA
 Manager (s) _____
 Coordinator (s) BO
 Finance Officer MM

Item Total: \$1,142.00
 Sales Tax: \$0.00
Total Amount Due: \$1,142.00

PA 035108
70100

Staff 3-7-17
Board 3-13-17

000267401 00002182143 B



Payment Coupon

17-039

Account Number	0002-6740-1
Due Date:	February 07, 2017
Total Due:	\$21,821.43

MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT
PO BOX 806
MT CLEMENS, MI 48046-0806



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 Interceptor Drain Drainage District
PO Box 806
Mt Clemens, MI 48046

Account Number 0002-6740-1

DTE-Energy Federal ID No. 38-3217752

Programs you are enrolled in:

How to contact us:

Power Outage	See Detail Charges
Billing Inquiry	1-734-397-4309
Analyst Code	L1

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

JD
2-6-17
CR# 4081

#3000
Chg: M1000 (for CAS)

Date	2.6.17
Chief Deputy	AB
Engineer(s)	UA
Manager(s)	
Coordinator(s)	BD
Finance Officer	BM

PA 034928 92300

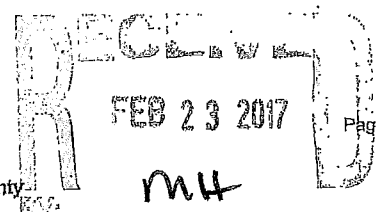
Staff 2.21.17
Board 3.13.17



everstream™

1228 Euclid Ave, Suite 250
Cleveland, OH 44115

INVOICE



Page 1 of 4

Macomb County

Account Number / BAN

00-MC

Invoice Number

A-170113155821-1

Invoice Date

Jan 13, 2017

Macomb County
10 N Main St
1t 7th Floor
Mount Clemens, MI 48043-5668

Please remit all payments to:
Everstream Holding LLC - Michigan
PO Box 844609
Boston, MA 02284-4609

Additionally, ACH and Wire Information is available adjacent to the coupon at the bottom of this page.

Account Summary

Jan 13, 2017 — Jan 13, 2017

Previous Statement	\$28,894.00
Payments Received	-\$21,640.07
Adjustments	\$0.00
Balance Forward	\$7,253.93

Current Charges \$0.00

Usage Charges \$0.00

One Time Charges \$ 85,700.00

Taxes \$0.00

Late Payment Fee \$0.00

Administrative Fees \$0.00

Total Charges **\$ 85,700.00** - *pa*

Total Due \$ 92,953.93

Due Date 02/11/2017

Chg: MIDD-D-CRS

2-23-17

Chief Deputy AP

Engineer (s) VA

Manager (s) _____

Coordinator (s) ED

Finance Officer BM

PROSS109 70100

ACH and Wire Payments: Routing #: 211170101; Account #: 1918097542

Thank you for being an Everstream customer!

Detach this portion and mail your payment to:

EVERSTREAM HOLDING LLC - MICHIGAN
PO BOX 844609
BOSTON, MA 02284-4609

Customer

Macomb County

Account Number / BAN

00-MC

Invoice Number

A-170113155821-1

Payment Due Date

2/11/2017

Amount Due

\$ 92,953.93

Amount Paid

Check here for change of address (see form on reverse)

Staff 3-7-17
Moore 3-13-17



INVOICE

Macomb County

Account Number / BAN

Invoice Number

Invoice Date

00-MC

A-170113155821-1

Jan 13, 2017

Account Balance / Past Due

Current Balance	1-29 Days	30-59 Days	60-89 Days	90+ Days	Total Balance
\$115,971.00	\$0.00	\$0.00	\$0.00	\$7,253.93	\$123,224.93

One Time Charges

WO-357		01/01/2017 - 12/31/2016		
Charge Description	Unit Cost	Quantity	Amount	
New lateral from 35029 Union Lake Rd to Intersection Shook & Harper	\$0.00	1	\$0.00	
Purchase Order 7-11-201	\$0.00	1	\$0.00	
Annual Maintenance Fee	\$1,100.00	1	\$1,100.00	
Overlash 24-36 fibers from Shook & Harper n to comtec bldg	\$84,600.00	1	\$84,600.00	
			WO-357 Charges	\$85,700.00



MACOMB COUNTY PUBLIC WORKS
 P.O. Box 806
 Mt. Clemens, Michigan 48046-0806
 586-469-5325 - Fax 586-469-5933

Purchase Order No. 7-11-2016

PURCHASE ORDER

Vendor		Ship To	
Name: <u>Comlink</u>	Name: <u>Clintondale Pump Station</u>	Address: <u>35029 Union Lake</u>	
Address: <u>1515 Turf Lane, Suite 100</u>	City: <u>Clinton Twp.</u>	St <u>MI</u>	ZIP <u>48035</u>
City: <u>East Lansing, MI 48823</u>	Attn: _____		

Date: July 11, 2016

Qty	Units	Item No.	Description	Unit Price	TOTAL
			Construct a new lateral from 35029 Union Lake Road to an existing GLC/Macomb Govt access point at the intersection of Shook & Harper. Overlash 24-36 fibers (more fibers if necessary) from Shook & Harper going north to Comtec building. At Comtec we will use 6 of the County's Adm fiber to run into building.	One Time Chg	\$84,600.00
			Annual Maintenance Fee		\$1,100.00
			Tax Exempt #38-6004868		
					\$85,700.00

Payment Details

Check
 Cash
 Account No.
 Credit Card

Name _____
 CC # _____
 Exp Date _____

Shipping & Handling	Estimated	\$85,700.00
Taxes	State	Exempt
TOTAL		\$85,700.00

Shipping Date _____

Approval

[Signature]

Date _____
 Quote _____
 Sales Rep _____
 Ship Via _____

W0357
1.10.17

Notes/Remarks



Quote Sheet

Date: 8/20/2015 Customer: 35029 Union Lake Road
Project # TBD Type: 001
Requested By: David Palmer Description: Construction - Customer

SCOPE:

Construct a new lateral from 35029 Union Lake Road to an existing GLC/Macomb Govt access point at the intersection of Shook & Harper Road. Overlash 24-36 fibers (more fibers if necessary) from Shook & Harper going north to Comtec building. At Comtec we will use 6 of the County's Admin fiber to run into building.

GLC COST CODE

NRC	One time charge	\$84,600.00
ARC Fee	Annual Maintenance Fee	\$1,100.00

Pricing Valid for 30 Day from Quote

Print Name: _____

Date: _____

Signature: _____

MACOMB COUNTY
PUBLIC WORKS COMMISSIONER

Wastewater Services Division
INVOICE DETAIL

Project # _____ Billing Account MID – Clintondale P.S.

Name of Vendor/Supplier Everstream Holding, LLC

Date Purchased 1/13/17 Vendor/Supplier Invoice # A-170113155821-1

Cost of Product or Service \$ 85,700.00 Attach original invoice or receipt to back of this form.

Describe product or service purchased and justification for purchase:

Fiber installation – construct new lateral from Clintondale P.S. to existing County access point;
annual maintenance fee

Location where product or service was used: Clintondale P.S.

Other Comments: _____

KIRK, HUTH, LANGE & BADALAMENTI PLC
 Attorneys at Law
 19500 Hall Rd., Suite 100
 Clinton Township, MI 48038

Invoice submitted to:
 Macomb County Public Works
 21777 Dunham Rd
 Clinton Twp, MI 48038

February 01, 2017

In Reference To: Driggers v. MIDDD - Clintondale Pump Station

Invoice #80332

\$1062.50
 pay

MH

Chg: MID-CPS #0159

2.13.17

Chief Deputy	MB
Engineer(s)	
Manager(s)	
Coordinator(s)	BD
Finance Officer	hjm

10-0004.4-1

PA035086 80400

Professional Services

		Hrs/Rate	Amount
12/2/2016	RB Phone conference x2 with Hayes; correspondence to client re: documents needed to defend Walsh Cross Motion for Summ Disp; prepare Proof of Svc x2; phone call to Court Clerk	1.25 250.00/hr	312.50
12/5/2016	RB Receipt and review of correspondence from client	0.25 250.00/hr	62.50
12/19/2016	SS Revise corr to Dave Hayes re final agreed upon settlement terms; per client;	0.50 250.00/hr	125.00
1/3/2017	RB Pull information and t/c to Hayes re: status; Prepare summary letter to Shapka per his 12/20 letter request	0.50 250.00/hr	125.00
1/6/2017	SS T/C Dave Hayes re: status of settlement agreement;	0.25 250.00/hr	62.50
1/9/2017	SS R/R Walsh's executed settlement agreement; Corr to Dave re Rotor's execution;	0.25 250.00/hr	62.50
1/23/2017	SS Corr to Dave re: follow up on status of settlement check & Rotor's position on executing release;	0.25 250.00/hr	62.50
1/24/2017	RB Review file and prepare for Atty meeting	0.25 250.00/hr	62.50
1/25/2017	SS Conf re: status of case and settlement;	0.25 250.00/hr	62.50
	RB Attend meeting w/Aloia re: transfer; Corres to Aloia re: need to appear; R/R substitution order & respond;	0.25 250.00/hr	62.50

Staff 2.21.17
 Bura 3.13.17

80332

Macomb County Public Works
Driggers v. MIDD - Clintondale
Pump Station

Page 2

<u>Hrs/Rate</u>	<u>Amount</u>
0.25 250.00/hr	62.50
4.25	<u>\$1,062.50</u>
	\$45,700.25
	<u>(\$44,700.25)</u>
	<u>(\$44,700.25)</u>
	<u>\$2,062.50</u>

1/26/2017 RB Attend conference w/Schaedig re: Status + transition to Aloia

For professional services rendered

Previous balance

1/26/2017 Payment - thank you

Total payments and adjustments

Balance due

pay →

Timekeeper Summary

<u>Name</u>	<u>Hours</u>
Raechel Badalamenti	2.75
Scott Sierzenga	1.50

THESE INVOICES ARE ATTORNEY/CLIENT PRIVILEGED INFORMATION

Thank you for letting our Firm be of service to you.
This statement reflects services up to and payments received before February 1, 2017

KIRK, HUTH, LANGE & BADALAMENTI, PLC
 Attorneys at Law
 19500 Hall Rd., Suite 100
 Clinton Township, MI 48038

JAN 17 2017
 MH

0159

Chg MID-CPS

Invoice submitted to:
 Macomb County Public Works
 21777 Dunham Rd
 Clinton Twp, MI 48038

Date 1.18.17
 Chief Clerk /B
 Engineer
 Manager
 Coordinator BD
 Finance Mhm

January 01, 2017

In Reference To: Driggers v. MIDDD - Clintondale Pump Station
 Invoice #80026

PA034841 8040

10-0004.4-1

Professional Services

		Hrs/Rate	Amount
12/20/2016	SS Research re: SOL, gov't immunity, proximate cause; Prep outline re: summary of claim	0.50 250.00/hr	125.00
12/21/2016	SS T/C Hayes re: status of draft of settlement agreement;	0.25 250.00/hr	62.50
12/22/2016	SS T/C Dave Hayes x4 re: settlement agreement, revised changes, redline, future claims; R/R Draft settlement agreement; Prep changes to agreement; Corr to Dave re: redlined changes;	2.25 250.00/hr	562.50
12/27/2016	SS T/C Hayes re: approval from Walsh;	0.25 250.00/hr	62.50
12/28/2016	SS R/R executed Release and Settlement Agreement; Corr to Dave re: Walsh and Rotor's execution of final agreement;	0.25 250.00/hr	62.50
	RB Receipt and review of documents and correspondence from client; phone call to Hayes	0.50 250.00/hr	125.00
	For professional services rendered	4.00	\$1,000.00

pay

Staff: 1-24-17

Board: 1-23-17

3/13/17

80026

Macomb County Public Works
Driggers v. MIDD - Clintondale
Pump Station

Page 2

Timekeeper Summary

<u>Name</u>	<u>Hours</u>
Raechel Badalamenti	0.50
Scott Sierzenga	3.50

THESE INVOICES ARE ATTORNEY/CLIENT PRIVILEGED INFORMATION

Thank you for letting our Firm be of service to you. Happy New Year!

This statement reflects services up to and payments received before December 1, 2016.



Lifting Gear Hire

9925 S. Industrial Dr.
 Bridgeview, IL 60455-2408
 p: 800- 878-7305
 f: 1-708-598-4778
 w: www.lgh-usa.com
 Email for Billing Questions: AR@lgh-usa.com

RECEIVED
 FEB 28 2017
 MH

RETURN INVOICE

Account Code: MAC35
 Customer PO #: 2-10-210
 LGH Ref: 013/GME010
 Rental Start Date: 02/13/2017
 Shipping Date: 02/13/2017
 Invoice Type: RETURN INVOICE
 Payment Terms: NET 30

Invoice Date: 02/21/2017
 Invoice Number: 6000019987
 Contract Number: 100008806 | Dispatch Number: 200007375 | Quote Number: 323364.1

Customer & Site Information

Customer Billing Information:
 Macomb County Public Works
 21777 Dunham Road
 CLINTON TOWNSHIP, MI 48036
 p: 586-260-4908

Customer Shipping Information:
 Lifting Gear Hire Detroit
 2701 American Dr
 Troy MI, 48083-4626
 Site Contact: Fred Roskopp
 p: 586-260-4908

Item Details

Qty.	E-Code	Equipment Description	No. of Days	Rate/Price	Total Charge
1	DPH0006	MANRIDING CRADLES From: 02/13/2017 To: 02/16/2017	4	\$103.00/ DAY \$721.00/ WEEK \$2,884.00/ MONTH	\$721.00

Goods Total: \$721.00
 Tax: \$0.00
 Invoice Total: \$721.00 ✓

pay

7 DAY MINIMUM RENTAL

MONTHLY RATES ARE FOR 28 DAYS

A service charge of 1 1/2 % Per Month (18% Annum) will be applied to all accounts over 30 days.

Chg: MIDD (CPS)

DATE 2-28-17

Chief Deputy AB

Engineer(s) VA

Manager(s) _____

Coordinator(s) BD

Finance Officer MM

PA 035179 ~~_____~~ 94000

Staff 3-7-17

3-13-17

NATIONAL DOOR SYSTEMS, LLC

715 Auburn Road + Pontiac, MI + 48342-3306
 Ph (248) 332-0255 + Fax (248) 332-0256



Invoice - Remit To Address Above

MH

Bill to: MACOMB COUNTY PUBLIC WORKS
 21777 DUNHAM ROAD
 CLINTON TOWNSHIP, MI 48036

Ship to: 35029 UNION LAKE RD
 CLINTON TWP, MI48035

Cust #	Customer Ref	Invoice #	Invoice Date	Due Date	Job No	Terms
1,220	DOOR REPAIRS	38627-R	2/9/2017	3/11/2017	176022-002	Net 30 days

Labor	Date	Work Order No.	Qty	UM	Unit Cost	Net
Flat Rate Travel Charge	12/12/16	19855	1.00	EA	125.00	125.00
Overhead Door Labor Rate	12/14/16	19855/19285	5.00	HRS	125.00	625.00
					Sub-Total Labor	750.00

Notes:

12/12/16 SCREEN ROOM CLOSE BUTTON WOULD WORK INTERMITTENTLY. SET FOR MOMENTARY CONTACT. NO SAFETIES, COIL CORD HAS BEEN CUT OFF AT SAFETY EDGE AND AT CONTROL BOX. FOUND CORRODED WIRE ON TERMINAL #3. PUT BACK ON AND TIGHTENED, BUTTONS WORK. ALARM NOT WORKING BUT DONT KNOW ABOUT THAT WITH THE CORROSIVE CONDITIONS IN THE ROOM. THE COPPER WIRES ARE CORRODING AND MAKING BAD CONNECTIONS. CUT HOOD BAFFLE OFF AS DOOR KEPT CATCHING THE FLAP AND MAKING LOUD HOOD BANGING NOISES. THE DOOR DOES HAVE BRUSH SEAL, SO IT DOESN'T NEED IT.

12/14/16 UPON ARRIVAL, DOOR IS IN OPEN POSITION. PUSHED CLOSE BUTTON AND THE DOOR CLOSED. SAFETY EDGE IS BAD. NO COIL CORD. ALL COPPER WIRES INSIDE THE OPERATOR ARE CORRODED AND TARNISHED BLACK FROM THE ENVIRONMENT. FRED REQUESTING NEW PNEUMATIC SAFETY EDGES ON RSID @ ELECTRICAL AND AT STORAGE. PLASTIC CAPS HAVE BROKEN. NEW JAMB SEAL ON ELECTRICAL DOOR ALSO.

12/28/16 WENT OUT TO ASSESS ISSUES, FRED HAS REQUESTED A SALES PERSON TO QUOTE FOR NEW EQUIPMENT. SALES HAS BEEN CONTACTED TO MEET WITH FRED. JOB COMPLETE.

Labor	750.00
Sales Tax	0.00
PAY THIS AMOUNT	750.00

3000
Chg: MIDDIS - CPS

2.13.17

Chief Deputy AB
 Engineer(s) NA
 Manager(s) _____
 Coordinator(s) BD
 Finance Officer HW

PA035003 77500

To pay with a Credit Card, please call the Office with your information.

Thank You!

Office: 248-332-0255 Fax: 248-332-0256

Staff 2-21-17
Board 3-13-17

\$14,143.05 *pay*

RECEIVED
FEB 23 2017

PRESIDIO
Practical thinking for a connected world.

6355 East Paris Ave. SE
Caledonia, MI 49316
Tel. 616.871.1500 | Fax. 616.871.1670
www.Presidio.com

REMIT PAYMENT TO
Presidio Infrastructure Solutions LLC
P.O. Box 99613
Troy, MI 48099-9613

Invoice

Invoice No.	152485
Customer No.	MAC103

Chy. MIDD (CPS)

Bill To	Ship To
---------	---------

Macomb County
Attn Payables
120 North Main St
Mt Clemens, MI 48043

2.23.17
Chief Deputy *AS*
Engineer(s) *UA*
Manager(s)
Coordinator(s) *JD*

Macomb County
Attn Dave Palmer
44900 Vic Wertz Dr
Clinton Township, MI 48036-1251
US
Contact:
Telephone:
E-mail:

Contact:
Telephone:
E-mail:

Invoice Date	Order Date	SO Number	Ordered By	Customer PO Number	Payment Method
12/20/16	10/19/16	121239	Jennifer Laymon 10/17/16		Net 30

Warehouse	Invoice Delivery	F.O.B.	Salesperson	CW SO #
NOVI	eMail Customer	Shipping Point	Scott Sutherland	78158

Order Quantity	Ship Quantity	Item Number / Description	Unit Price	Extended Price
1.00	1.00	NET-OSP-2901CMST U of M: EA On-Site Premium for WHLSALE Series Products, On-Site Pr	2,254.40	2,254.40
1	1	AP9630 U of M: EA UPS Management Card	259.00	259.00
1	1	SMX1500RM2UNC U of M: EA SMART UPS X 1500VA RACK/TOWER LCD 120V W/NETWORK CARD	1,040.00	1,040.00
1	1	AFA190 U of M: EA UC 2 Port Analog Telephone Adapter	171.00	171.00
1	1	VIC2-4FXO U of M: EA Cisco VIC2-4FXO	501.60	501.60
1	1	PWR-CI-715WAC/2 U of M: EA 715W AC Config 1 Secondary Power Supply	712.50	712.50
1	1	C3850-NM-2-10G U of M: EA Cisco Catalyst 3850 2 x 10GB Network Module Cisco C	1,425.00	1,425.00
1	1	C2901-CME-SRST/K9 U of M: EA 2901 Voice Bundle w/ FL-CME-SRST, UC License Pak	1,935.15	1,935.15

Print Date	12/20/16
Print Time	12:48:35 PM
Page No.	1

2.23.17

Printed By: Katie Vander Wal

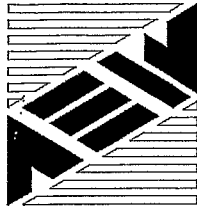
State 3-7-17
Board 3-13-17

Chy MIDD - CPS

Man...
Coor...
Finance Off...
PA035110

\$ 783,543.20

MIT



ANDERSON, ECKSTEIN AND WESTRICK, INC.
CIVIL ENGINEERS • SURVEYORS • ARCHITECTS
51301 Schoenherr Road, Shelby Township, Michigan 48315
Phone (586) 726-1234 Fax (586) 726-8780

Invoice

February 02, 2017

Project No: 0211-0183-0

Invoice No: 0112998

*chg MID (15 mile)
3.3.17*

MACOMB COUNTY PUBLIC WORKS COMM.
ATTN: EVANS BANTIOS, PE, ENGINEER II
21777 DUNHAM ROAD
CLINTON TWP., MI 48036

ele 3/3/17

Project 0211-0183-0 15 MILE RD AND EBERLEIN SINK HOLE

Professional Services from December 24, 2016 to January 08, 2017

Professional Personnel

		Hours	Rate	Amount
TOPO SURVEY				
LICENSED ENG/SUR/ARC				
TRUAX, MICHAEL	12/26/2016	.50	134.50	67.25
TRUAX, MICHAEL	12/29/2016	.50	134.50	67.25
TRUAX, MICHAEL	1/1/2017	3.00	134.50	403.50
TRUAX, MICHAEL	1/8/2017	2.00	134.50	269.00
TEAM LEADER				
CAMPBELL, RANDY	1/4/2017	2.50	111.50	278.75
GAYESKI JR., JOSEPH	12/27/2016	11.00	111.50	1,226.50
GAYESKI JR., JOSEPH	12/28/2016	8.00	111.50	892.00
GAYESKI JR., JOSEPH	12/29/2016	10.00	111.50	1,115.00
GAYESKI JR., JOSEPH	12/30/2016	12.50	111.50	1,393.75
GAYESKI JR., JOSEPH	12/31/2016	10.00	111.50	1,115.00
GAYESKI JR., JOSEPH	1/1/2017	8.00	111.50	892.00
GAYESKI JR., JOSEPH	1/2/2017	10.50	111.50	1,170.75
GAYESKI JR., JOSEPH	1/3/2017	10.50	111.50	1,170.75
GAYESKI JR., JOSEPH	1/4/2017	11.50	111.50	1,282.25
GAYESKI JR., JOSEPH	1/5/2017	11.50	111.50	1,282.25
GAYESKI JR., JOSEPH	1/6/2017	11.00	111.50	1,226.50
GAYESKI JR., JOSEPH	1/7/2017	7.00	111.50	780.50
GAYESKI JR., JOSEPH	1/8/2017	5.00	111.50	557.50
LEONARD, MICHAEL	1/3/2017	.50	111.50	55.75
LEONARD, MICHAEL	1/6/2017	2.50	111.50	278.75
ENGINEERING AIDE III				
SOPCZYNSKI, MICHAEL	1/4/2017	5.00	92.00	460.00
SOPCZYNSKI, MICHAEL	1/5/2017	12.00	92.00	1,104.00
SOPCZYNSKI, MICHAEL	1/6/2017	5.00	92.00	460.00
SOPCZYNSKI, MICHAEL	1/7/2017	5.00	92.00	460.00
SENIOR PROJECT SURVEYOR				
AMEY, CRAIG	12/26/2016	1.50	148.50	222.75
AMEY, CRAIG	12/27/2016	3.50	148.50	519.75
AMEY, CRAIG	12/28/2016	9.00	148.50	1,336.50
AMEY, CRAIG	12/29/2016	8.00	148.50	1,188.00
AMEY, CRAIG	12/30/2016	10.00	148.50	1,485.00
AMEY, CRAIG	12/31/2016	6.00	148.50	891.00
AMEY, CRAIG	1/1/2017	6.50	148.50	965.25
AMEY, CRAIG	1/2/2017	5.00	148.50	742.50

Project Manager (s) _____
 Manager (s) _____
 Coordinator (s) _____
 Finance Officer *btm* _____

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	AMEY, CRAIG	1/3/2017	4.00	148.50	594.00
	AMEY, CRAIG	1/4/2017	6.00	148.50	891.00
	AMEY, CRAIG	1/5/2017	4.00	148.50	594.00
	AMEY, CRAIG	1/8/2017	4.00	148.50	594.00
CONSTRUCTION STAKEOUT					
TEAM LEADER					
	LEONARD, MICHAEL	1/5/2017	.50	111.50	55.75
EASEMENTS					
SENIOR PROJECT SURVEYOR					
	AMEY, CRAIG	12/26/2016	4.50	148.50	668.25
	AMEY, CRAIG	12/27/2016	4.00	148.50	594.00
PRINTS					
ENGINEERING AIDE II					
	LEIDEKER, RONDA	1/3/2017	2.00	92.00	184.00
	LEIDEKER, RONDA	1/4/2017	2.50	92.00	230.00
	LEIDEKER, RONDA	1/6/2017	4.70	92.00	432.40
ENGINEERING AIDE TRAINEE					
	KAFERLE, JARED	1/7/2017	1.00	92.00	92.00
	KAFERLE, KATHLEEN	1/6/2017	4.00	92.00	368.00
CONSTRUCTION PLAN DRAFT					
TEAM LEADER					
	ALLEGOET, JEFFREY	1/3/2017	5.50	111.50	613.25
	ALLEGOET, JEFFREY	1/4/2017	8.00	111.50	892.00
	ALLEGOET, JEFFREY	1/5/2017	1.50	111.50	167.25
	ALLEGOET, JEFFREY	1/6/2017	2.00	111.50	223.00
PRELIMINARY ENGINEERING					
GRADUATE ENG/SUR/ARC					
	EBERLE, JOSEPH	1/3/2017	6.50	111.50	724.75
	EBERLE, JOSEPH	1/4/2017	10.00	111.50	1,115.00
	EBERLE, JOSEPH	1/5/2017	10.50	111.50	1,170.75
	EBERLE, JOSEPH	1/6/2017	10.50	111.50	1,170.75
	EBERLE, JOSEPH	1/7/2017	7.80	111.50	869.70
	FRAYER, CHRISTOPHER	1/7/2017	9.00	111.50	1,003.50
SENIOR PROJECT ENGINEER					
	CHOWN, JOHN	12/28/2016	8.00	148.50	1,188.00
	CHOWN, JOHN	12/29/2016	12.00	148.50	1,782.00
	CHOWN, JOHN	12/30/2016	10.00	148.50	1,485.00
	CHOWN, JOHN	12/31/2016	11.00	148.50	1,633.50
	CHOWN, JOHN	1/1/2017	11.00	148.50	1,633.50
	CHOWN, JOHN	1/2/2017	13.00	148.50	1,930.50
	CHOWN, JOHN	1/3/2017	10.00	148.50	1,485.00
	CHOWN, JOHN	1/4/2017	10.00	148.50	1,485.00
	CHOWN, JOHN	1/5/2017	10.00	148.50	1,485.00
	CHOWN, JOHN	1/6/2017	9.00	148.50	1,336.50
	CHOWN, JOHN	1/7/2017	10.00	148.50	1,485.00
	CHOWN, JOHN	1/8/2017	11.00	148.50	1,633.50
CONSTRUCTION PLAN DESIGN					
SENIOR PROJECT ENGINEER					
	VIGNERON, MICHAEL	12/26/2016	4.00	148.50	594.00
	VIGNERON, MICHAEL	12/27/2016	5.00	148.50	742.50
	VIGNERON, MICHAEL	12/28/2016	9.50	148.50	1,410.75
	VIGNERON, MICHAEL	12/29/2016	1.00	148.50	148.50
	VIGNERON, MICHAEL	12/30/2016	4.00	148.50	594.00
	VIGNERON, MICHAEL	1/1/2017	1.00	148.50	148.50
	VIGNERON, MICHAEL	1/2/2017	3.00	148.50	445.50
	VIGNERON, MICHAEL	1/3/2017	3.50	148.50	519.75

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VIGNERON, MICHAEL	1/4/2017	1.70	148.50	252.45
VIGNERON, MICHAEL	1/5/2017	2.00	148.50	297.00
VIGNERON, MICHAEL	1/6/2017	3.50	148.50	519.75
VIGNERON, MICHAEL	1/7/2017	5.50	148.50	816.75
CONTRACT ADMINISTRATION				
PRINCIPAL ENGINEER				
LOCKWOOD, SCOTT	12/24/2016	10.50	162.00	1,701.00
LOCKWOOD, SCOTT	12/25/2016	6.50	162.00	1,053.00
LOCKWOOD, SCOTT	12/26/2016	12.50	162.00	2,025.00
LOCKWOOD, SCOTT	12/27/2016	12.00	162.00	1,944.00
LOCKWOOD, SCOTT	12/28/2016	15.50	162.00	2,511.00
LOCKWOOD, SCOTT	12/29/2016	10.00	162.00	1,620.00
LOCKWOOD, SCOTT	12/30/2016	9.00	162.00	1,458.00
LOCKWOOD, SCOTT	12/31/2016	7.00	162.00	1,134.00
LOCKWOOD, SCOTT	1/1/2017	11.00	162.00	1,782.00
LOCKWOOD, SCOTT	1/2/2017	12.50	162.00	2,025.00
LOCKWOOD, SCOTT	1/3/2017	10.00	162.00	1,620.00
LOCKWOOD, SCOTT	1/4/2017	9.00	162.00	1,458.00
LOCKWOOD, SCOTT	1/5/2017	10.50	162.00	1,701.00
LOCKWOOD, SCOTT	1/6/2017	11.00	162.00	1,782.00
LOCKWOOD, SCOTT	1/7/2017	6.50	162.00	1,053.00
LOCKWOOD, SCOTT	1/8/2017	6.50	162.00	1,053.00
ROSE, ROY	12/24/2016	5.00	162.00	810.00
ROSE, ROY	12/25/2016	6.00	162.00	972.00
ROSE, ROY	12/26/2016	9.00	162.00	1,458.00
ROSE, ROY	12/27/2016	13.00	162.00	2,106.00
ROSE, ROY	12/28/2016	11.50	162.00	1,863.00
ROSE, ROY	12/29/2016	11.80	162.00	1,911.60
ROSE, ROY	12/30/2016	12.00	162.00	1,944.00
ROSE, ROY	12/31/2016	10.50	162.00	1,701.00
ROSE, ROY	1/1/2017	11.50	162.00	1,863.00
ROSE, ROY	1/2/2017	11.50	162.00	1,863.00
ROSE, ROY	1/3/2017	9.50	162.00	1,539.00
ROSE, ROY	1/4/2017	8.50	162.00	1,377.00
ROSE, ROY	1/5/2017	7.00	162.00	1,134.00
ROSE, ROY	1/6/2017	6.00	162.00	972.00
ROSE, ROY	1/7/2017	8.00	162.00	1,296.00
ROSE, ROY	1/8/2017	5.50	162.00	891.00
GRADUATE ENG/SUR/ARC				
MASTRACCO, STEFANIA	12/26/2016	4.80	111.50	535.20
MASTRACCO, STEFANIA	12/27/2016	10.30	111.50	1,148.45
MASTRACCO, STEFANIA	12/28/2016	5.00	111.50	557.50
MASTRACCO, STEFANIA	12/29/2016	1.00	111.50	111.50
MASTRACCO, STEFANIA	1/3/2017	7.00	111.50	780.50
MASTRACCO, STEFANIA	1/4/2017	7.00	111.50	780.50
MASTRACCO, STEFANIA	1/6/2017	2.00	111.50	223.00
WOOLARD, LUCAS	12/28/2016	2.00	111.50	223.00
WOOLARD, LUCAS	12/29/2016	7.50	111.50	836.25
WOOLARD, LUCAS	1/1/2017	9.00	111.50	1,003.50
WOOLARD, LUCAS	1/3/2017	1.00	111.50	111.50
TEAM LEADER				
DUCKWITZ, CRAIG	1/3/2017	1.50	111.50	167.25
MYSLINSKI, CHARLES	12/26/2016	4.00	111.50	446.00
MYSLINSKI, CHARLES	12/27/2016	11.00	111.50	1,226.50
MYSLINSKI, CHARLES	12/28/2016	12.00	111.50	1,338.00
MYSLINSKI, CHARLES	12/29/2016	12.00	111.50	1,338.00

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MYSLINSKI, CHARLES	12/30/2016	12.00	111.50	1,338.00
MYSLINSKI, CHARLES	12/31/2016	9.00	111.50	1,003.50
MYSLINSKI, CHARLES	1/1/2017	8.00	111.50	892.00
MYSLINSKI, CHARLES	1/2/2017	10.00	111.50	1,115.00
MYSLINSKI, CHARLES	1/3/2017	6.00	111.50	669.00
MYSLINSKI, CHARLES	1/4/2017	2.00	111.50	223.00
OEHMKE, WAYNE	12/26/2016	4.50	111.50	501.75
OEHMKE, WAYNE	12/27/2016	5.50	111.50	613.25
OEHMKE, WAYNE	12/28/2016	5.00	111.50	557.50
OEHMKE, WAYNE	12/29/2016	4.50	111.50	501.75
OEHMKE, WAYNE	12/30/2016	5.50	111.50	613.25
OEHMKE, WAYNE	12/31/2016	2.50	111.50	278.75
OEHMKE, WAYNE	1/1/2017	4.00	111.50	446.00
OEHMKE, WAYNE	1/2/2017	4.00	111.50	446.00
OEHMKE, WAYNE	1/3/2017	7.50	111.50	836.25
OEHMKE, WAYNE	1/4/2017	5.50	111.50	613.25
OEHMKE, WAYNE	1/5/2017	5.00	111.50	557.50
OEHMKE, WAYNE	1/6/2017	4.00	111.50	446.00
SMITH, BRADLEY	1/1/2017	6.00	111.50	669.00
SMITH, BRADLEY	1/2/2017	4.00	111.50	446.00
SMITH, BRADLEY	1/3/2017	7.00	111.50	780.50
SMITH, BRADLEY	1/4/2017	15.00	111.50	1,672.50
SMITH, BRADLEY	1/5/2017	12.00	111.50	1,338.00
SMITH, BRADLEY	1/6/2017	12.50	111.50	1,393.75
SMITH, BRADLEY	1/7/2017	13.00	111.50	1,449.50
SMITH, BRADLEY	1/8/2017	4.50	111.50	501.75
ENGINEERING AIDE III				
VANFLETEREN, JOHN	1/6/2017	8.50	92.00	782.00
VANFLETEREN, JOHN	1/7/2017	12.00	92.00	1,104.00
WINKLE, TODD	12/26/2016	11.50	92.00	1,058.00
WINKLE, TODD	12/27/2016	12.00	92.00	1,104.00
WINKLE, TODD	12/28/2016	13.20	92.00	1,214.40
WINKLE, TODD	12/29/2016	12.00	92.00	1,104.00
WINKLE, TODD	12/30/2016	10.50	92.00	966.00
WINKLE, TODD	12/31/2016	11.30	92.00	1,039.60
WINKLE, TODD	1/1/2017	9.00	92.00	828.00
WINKLE, TODD	1/2/2017	11.30	92.00	1,039.60
WINKLE, TODD	1/3/2017	11.50	92.00	1,058.00
WINKLE, TODD	1/4/2017	11.50	92.00	1,058.00
WINKLE, TODD	1/5/2017	8.70	92.00	800.40
WINKLE, TODD	1/6/2017	11.50	92.00	1,058.00
WINKLE, TODD	1/7/2017	5.50	92.00	506.00
ADMINISTRATION				
HAYES, VANESSA	12/27/2016	3.00	148.50	445.50
HAYES, VANESSA	12/28/2016	2.50	148.50	371.25
HAYES, VANESSA	12/30/2016	1.50	148.50	222.75
HAYES, VANESSA	12/31/2016	1.50	148.50	222.75
HAYES, VANESSA	1/2/2017	.50	148.50	74.25
HAYES, VANESSA	1/3/2017	1.50	148.50	222.75
HAYES, VANESSA	1/4/2017	1.50	148.50	222.75
HAYES, VANESSA	1/6/2017	.50	148.50	74.25
SENIOR PROJECT ENGINEER				
URBAN, LOUIS	12/24/2016	3.00	148.50	445.50
URBAN, LOUIS	12/25/2016	16.00	148.50	2,376.00
URBAN, LOUIS	12/26/2016	15.00	148.50	2,227.50
URBAN, LOUIS	12/27/2016	16.00	148.50	2,376.00

URBAN, LOUIS	12/28/2016	18.00	148.50	2,673.00
URBAN, LOUIS	12/29/2016	14.00	148.50	2,079.00
URBAN, LOUIS	12/30/2016	14.00	148.50	2,079.00
URBAN, LOUIS	12/31/2016	14.00	148.50	2,079.00
URBAN, LOUIS	1/1/2017	13.50	148.50	2,004.75
URBAN, LOUIS	1/2/2017	15.50	148.50	2,301.75
URBAN, LOUIS	1/3/2017	16.00	148.50	2,376.00
URBAN, LOUIS	1/4/2017	13.50	148.50	2,004.75
URBAN, LOUIS	1/5/2017	14.50	148.50	2,153.25
URBAN, LOUIS	1/6/2017	13.50	148.50	2,004.75
URBAN, LOUIS	1/7/2017	13.00	148.50	1,930.50
URBAN, LOUIS	1/8/2017	8.00	148.50	1,188.00
WINN, LYLE	1/7/2017	1.00	148.50	148.50

STUDIES

TEAM LEADER

AVERY, BRENT	12/26/2016	6.00	111.50	669.00
AVERY, BRENT	12/27/2016	8.00	111.50	892.00
AVERY, BRENT	12/28/2016	8.00	111.50	892.00
AVERY, BRENT	12/29/2016	8.00	111.50	892.00
AVERY, BRENT	12/30/2016	3.00	111.50	334.50
AVERY, BRENT	1/1/2017	2.00	111.50	223.00
AVERY, BRENT	1/2/2017	4.00	111.50	446.00
AVERY, BRENT	1/3/2017	8.00	111.50	892.00
AVERY, BRENT	1/4/2017	3.00	111.50	334.50
AVERY, BRENT	1/5/2017	2.50	111.50	278.75

MEETINGS

TEAM LEADER

OEHMKE, WAYNE	12/26/2016	5.00	111.50	557.50
OEHMKE, WAYNE	12/27/2016	4.00	111.50	446.00
OEHMKE, WAYNE	12/28/2016	4.50	111.50	501.75
OEHMKE, WAYNE	12/29/2016	5.00	111.50	557.50
OEHMKE, WAYNE	12/30/2016	4.00	111.50	446.00
OEHMKE, WAYNE	12/31/2016	2.00	111.50	223.00
OEHMKE, WAYNE	1/1/2017	2.00	111.50	223.00
OEHMKE, WAYNE	1/2/2017	2.00	111.50	223.00
OEHMKE, WAYNE	1/3/2017	2.00	111.50	223.00
OEHMKE, WAYNE	1/4/2017	2.00	111.50	223.00
OEHMKE, WAYNE	1/5/2017	2.00	111.50	223.00
OEHMKE, WAYNE	1/6/2017	4.00	111.50	446.00
OEHMKE, WAYNE	1/8/2017	2.00	111.50	223.00

CONSTRUCTION OBSERVATION

ENGINEERING AIDE III

BROWN, GREGORY	12/26/2016	11.80	92.00	1,085.60
BROWN, GREGORY	12/27/2016	12.00	92.00	1,104.00
BROWN, GREGORY	12/28/2016	11.30	92.00	1,039.60
BROWN, GREGORY	12/29/2016	8.00	92.00	736.00
BROWN, GREGORY	12/30/2016	11.50	92.00	1,058.00
BROWN, GREGORY	12/31/2016	11.80	92.00	1,085.60
BROWN, GREGORY	1/1/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/2/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/3/2017	10.50	92.00	966.00
BROWN, GREGORY	1/4/2017	10.70	92.00	984.40
BROWN, GREGORY	1/5/2017	9.50	92.00	874.00
BROWN, GREGORY	1/6/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	12/26/2016	12.50	92.00	1,150.00
KOCIS, ROBERT	12/27/2016	11.50	92.00	1,058.00

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KOCIS, ROBERT	12/28/2016	11.00	92.00	1,012.00
KOCIS, ROBERT	12/29/2016	11.00	92.00	1,012.00
KOCIS, ROBERT	12/30/2016	12.00	92.00	1,104.00
KOCIS, ROBERT	12/31/2016	11.50	92.00	1,058.00
KOCIS, ROBERT	1/1/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/2/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/3/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/4/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/5/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/6/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/7/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/8/2017	11.50	92.00	1,058.00
LUMMA, KEITH	12/24/2016	13.00	92.00	1,196.00
LUMMA, KEITH	12/25/2016	18.00	92.00	1,656.00
LUMMA, KEITH	12/26/2016	16.00	92.00	1,472.00
LUMMA, KEITH	12/27/2016	15.00	92.00	1,380.00
LUMMA, KEITH	12/28/2016	17.00	92.00	1,564.00
LUMMA, KEITH	12/29/2016	15.00	92.00	1,380.00
LUMMA, KEITH	12/30/2016	17.00	92.00	1,564.00
LUMMA, KEITH	12/31/2016	15.00	92.00	1,380.00
LUMMA, KEITH	1/1/2017	17.00	92.00	1,564.00
LUMMA, KEITH	1/2/2017	16.00	92.00	1,472.00
LUMMA, KEITH	1/3/2017	15.00	92.00	1,380.00
LUMMA, KEITH	1/4/2017	14.00	92.00	1,288.00
LUMMA, KEITH	1/5/2017	14.00	92.00	1,288.00
LUMMA, KEITH	1/6/2017	14.00	92.00	1,288.00
LUMMA, KEITH	1/7/2017	14.00	92.00	1,288.00
LUMMA, KEITH	1/8/2017	14.00	92.00	1,288.00
ROSS, BERNARD	1/2/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/3/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/4/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/5/2017	9.00	92.00	828.00
ROSS, BERNARD	1/6/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/7/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/8/2017	11.50	92.00	1,058.00
ENGINEERING AIDE II				
WEEKS, ROBERT	12/30/2016	11.00	92.00	1,012.00
WEEKS, ROBERT	12/31/2016	10.50	92.00	966.00
WEEKS, ROBERT	1/1/2017	5.00	92.00	460.00
WEEKS, ROBERT	1/2/2017	10.50	92.00	966.00
WEEKS, ROBERT	1/5/2017	8.50	92.00	782.00
WEEKS, ROBERT	1/6/2017	8.00	92.00	736.00
WEEKS, ROBERT	1/7/2017	10.50	92.00	966.00
ENGINEERING AIDE I				
ANDERSON, KEVIN	12/30/2016	9.50	92.00	874.00
ANDERSON, KEVIN	12/31/2016	10.50	92.00	966.00
ANDERSON, KEVIN	1/1/2017	7.50	92.00	690.00
ANDERSON, KEVIN	1/2/2017	10.50	92.00	966.00
ANDERSON, KEVIN	1/4/2017	9.50	92.00	874.00
ANDERSON, KEVIN	1/5/2017	11.50	92.00	1,058.00
ANDERSON, KEVIN	1/6/2017	9.50	92.00	874.00
ANDERSON, KEVIN	1/7/2017	9.50	92.00	874.00
ARCHITECT				
SENIOR PROJECT ARCHITECT				
ARLOW, JASON	1/3/2017	7.00	148.50	1,039.50
ARLOW, JASON	1/4/2017	1.00	148.50	148.50

Project	0211-0183-0	15 MILE RD AND EBERLEIN SINK HOLE	Invoice	0112998
ARLOW, JASON	1/6/2017	.50	148.50	74.25
CONSTRUCTION DOCUMENTS				
GRADUATE ENG/SUR/ARC				
CHIRCO, BRANDY	1/3/2017	1.50	111.50	167.25
ENGINEERING AIDE III				
PASAMBA, ARMANDO	1/6/2017	1.50	92.00	138.00
STRUCTURAL				
SENIOR PROJECT ENGINEER				
ZAUDEL, KEVIN	12/31/2016	5.50	148.50	816.75
ZAUDEL, KEVIN	1/3/2017	4.00	148.50	594.00
BASE MAPS				
GRADUATE ENG/SUR/ARC				
MILLER, JEFFREY	12/25/2016	3.00	111.50	334.50
MILLER, JEFFREY	12/26/2016	4.00	111.50	446.00
MILLER, JEFFREY	12/27/2016	12.20	111.50	1,360.30
MILLER, JEFFREY	12/28/2016	11.50	111.50	1,282.25
MILLER, JEFFREY	12/29/2016	11.50	111.50	1,282.25
MILLER, JEFFREY	12/30/2016	12.20	111.50	1,360.30
MILLER, JEFFREY	12/31/2016	9.00	111.50	1,003.50
MILLER, JEFFREY	1/1/2017	10.00	111.50	1,115.00
MILLER, JEFFREY	1/3/2017	7.50	111.50	836.25
MILLER, JEFFREY	1/4/2017	4.50	111.50	501.75
MILLER, JEFFREY	1/5/2017	6.00	111.50	669.00
MILLER, JEFFREY	1/6/2017	1.50	111.50	167.25
MILLER, JEFFREY	1/7/2017	3.20	111.50	356.80
GIS UPDATES				
ENGINEERING AIDE III				
DOURJALIAN, ANDREW	12/28/2016	8.00	92.00	736.00
DOURJALIAN, ANDREW	1/3/2017	1.00	92.00	92.00
Totals		2,444.80		287,576.65
Total Labor				287,576.65

Reimbursable Expenses

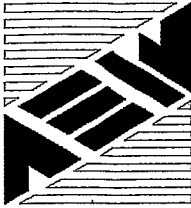
REIMB. MISC. EXPENSE

12/27/2016	VERIZON WIRELESS	Jet Packs Mifi	158.97	✓
1/3/2017	TRIO PARTNERS, LLC	Rent - January	2,500.00	✓
1/4/2017	SPEED CLEAN SERVICES	Invoice #21806	420.00	✓
1/5/2017	SUPPLYDEN, INC.	Invoice #370157-00	368.27	✓
1/6/2017	SPEED CLEAN SERVICES	Invoice #21826	654.28	✓
1/7/2017	HOME DEPOT - R Leidker	Wall brackets for partitions	51.86	✓
1/7/2017	HOME DEPOT -J VanFletehen	Remodeling Supplies	52.95	✓
1/8/2017	MDEQ	Part 327 Permit	2,000.00	✓
1/8/2017	CITY OF FRASER	Permit for 80 Foot Antenna	1,000.00	✓
1/8/2017	GEI CONSULTANTS, INC.	Invoice #5002184	2,168.00	✓
1/8/2017	NTH CONSULTANTS, LTD.	Invoice #608633	40,136.59	✓
1/8/2017	CONSTRUCTION VIDEO MEDIA	Invoice #16-162	12,968.00	✓
1/8/2017	APPLIED SCIENCE, INC.	Invoice #6760	36,921.00	✓
1/8/2017	SPALDING, DEDECKER & ASSOC.	Invoice #00072901	37,093.50	✓
1/8/2017	HIBBARD INSHORE	Invoice #53098	15,147.00	✓
1/8/2017	FK ENGINEERING ASSOC.	Invoice #16-113-001	242,273.38	✓
1/8/2017	CONSTRUCTION VIDEO MEDIA, INC.	Invoice #16-162-1	1,875.00	✓
1/8/2017	MACOMB MECHANICAL, INC.	Invoice #30581	699.00	✓
1/8/2017	LUCAS WOOLARD	HDMI Cables	84.73	✓

Project	0211-0183-0	15 MILE RD AND EBERLEIN SINK HOLE	Invoice	0112998
1/8/2017	DES MOINES STAMP MFG.	Invoice #1087830	140.98	
1/8/2017	HEWLETT-PACKARD	Invoice #58048439	1,377.81	
1/8/2017	HEWLETT-PACKARD	Invoice #58036853	5,487.62	
1/8/2017	FOTEC, INC.	Invoice #8599	1,192.50	
1/8/2017	ARGUS-HAZCO	Invoice #04121586	151.14	
1/8/2017	MACOMB MECHANICAL, INC.	Invoice #30549	647.00	
1/8/2017	MACOMB MECHANICAL, INC.	Invoice #30574	402.00	
1/8/2017	SYSTEMS DUPLICATING CO.	Invoice #106059	172.99	
1/8/2017	FRASER PARKS & REC.	Emergency use of building	500.00	
1/8/2017	LB OFFICE	Lock/Keys/Padlock - Field	138.49	
1/8/2017	HOME DEPOT - K Lumma	Office	103.63	
1/8/2017	MACOMB MECHANICAL, INC.	Invoice #30552	816.00	
1/8/2017	MACOMB MECHANICAL, INC.	Invoice #30563	169.00	
1/8/2017	AEW-CREDIT CARD PURCHASES	See Attached List	10,163.74	
	Total Reimbursables	1.04 times	418,035.43	434,756.85
Unit Billing				
	1 PERSON CREW-TOPO SURVEY	36.5 HOURS @ 154.00	5,621.00	
	2 PERSON CREW-TOPO SURVEY	211.0 HOURS @ 211.00	44,521.00	
	3 PERSON CREW-TOPO SURVEY	51.5 HOURS @ 261.00	13,441.50	
	2 PERSON CREW-CONSTRUCTION STAKEOUT	2.5 HOURS @ 217.00	542.50	
	Total Units		64,126.00	64,126.00
Additional Fees				
	Reduce FK Eng. 4% Mark Up on DLZ Inv.		-2,916.30	
	Total Additional Fees		-2,916.30	-2,916.30
		Total this Invoice		\$783,543.20

\$1,291,864.25 pay

1-16-17
MH



ANDERSON, ECKSTEIN AND WESTRICK, INC.
CIVIL ENGINEERS • SURVEYORS • ARCHITECTS
51301 Schoenherr Road, Shelby Township, Michigan 48315
Phone (586) 726-1234 Fax (586) 726-8780

Invoice

ch: MID
(15 mile Sunkhole)

February 17, 2017
Project No: 0211-0183-0
Invoice No: 0113109

MACOMB COUNTY PUBLIC WORKS COMM.
ATTN: EVANS BANTIOS, PE, ENGINEER II
21777 DUNHAM ROAD
CLINTON TWP., MI 48036

eb 3/3/17

3.3-17
Chief Deputy _____
Engineer(s) _____
Manager(s) _____
Coordinator(s) _____
Financial Officer *blm*

Project 0211-0183-0 PCI 12A 15 MILE RD INTERCEPTOR REPAIR

Professional Services from January 09, 2017 to February 05, 2017
Professional Personnel

	Hours	Rate	Amount
TOPO SURVEY			
LICENSED ENG/SUR/ARC			
TRUAX, MICHAEL	1/9/2017	2.00	134.50
TRUAX, MICHAEL	1/10/2017	1.00	134.50
TRUAX, MICHAEL	1/13/2017	.50	67.25
TRUAX, MICHAEL	1/14/2017	.50	67.25
TRUAX, MICHAEL	1/17/2017	.50	67.25
TRUAX, MICHAEL	1/18/2017	1.00	134.50
TRUAX, MICHAEL	1/23/2017	1.00	134.50
TRUAX, MICHAEL	1/24/2017	.50	67.25
TRUAX, MICHAEL	1/31/2017	1.00	134.50
TRUAX, MICHAEL	2/3/2017	.50	67.25
TEAM LEADER			
GAYESKI JR., JOSEPH	1/9/2017	1.00	111.50
GAYESKI JR., JOSEPH	1/10/2017	2.00	223.00
GAYESKI JR., JOSEPH	1/11/2017	2.00	223.00
GAYESKI JR., JOSEPH	1/13/2017	2.00	223.00
GAYESKI JR., JOSEPH	1/16/2017	1.00	111.50
GAYESKI JR., JOSEPH	1/18/2017	4.00	446.00
GAYESKI JR., JOSEPH	1/19/2017	.50	55.75
GAYESKI JR., JOSEPH	1/20/2017	1.00	111.50
GAYESKI JR., JOSEPH	1/31/2017	1.00	111.50
GAYESKI JR., JOSEPH	2/1/2017	.50	55.75
GAYESKI JR., JOSEPH	2/2/2017	.50	55.75
GAYESKI JR., JOSEPH	2/4/2017	1.00	111.50
LEONARD, MICHAEL	1/9/2017	1.00	111.50
LEONARD, MICHAEL	1/25/2017	1.50	167.25
LEONARD, MICHAEL	1/26/2017	1.50	167.25
LEONARD, MICHAEL	1/27/2017	2.00	223.00
LEONARD, MICHAEL	1/28/2017	1.00	111.50
LEONARD, MICHAEL	2/2/2017	1.50	167.25
LEONARD, MICHAEL	2/3/2017	.50	55.75
LEONARD, MICHAEL	2/4/2017	1.00	111.50
ENGINEERING AIDE III			
ANGER, SCOTT	1/10/2017	1.00	92.00
ANGER, SCOTT	1/13/2017	1.00	92.00
ANGER, SCOTT	1/14/2017	.50	46.00

8032

Please include the project number and invoice number on your check.

Project	0211-0183-0	PCI 12A 15 MILE RD INTERCEPTOR REPAIR	Invoice	0113109
ANGER, SCOTT	1/17/2017	.50	92.00	46.00
ANGER, SCOTT	1/23/2017	1.00	92.00	92.00
ANGER, SCOTT	1/26/2017	1.00	92.00	92.00
LAGODNA, CARL	1/11/2017	.50	92.00	46.00
SOPCZYNSKI, MICHAEL	1/9/2017	10.00	92.00	920.00
SOPCZYNSKI, MICHAEL	1/10/2017	9.50	92.00	874.00
SOPCZYNSKI, MICHAEL	1/11/2017	9.00	92.00	828.00
SOPCZYNSKI, MICHAEL	1/12/2017	4.00	92.00	368.00
SOPCZYNSKI, MICHAEL	1/13/2017	3.00	92.00	276.00
SOPCZYNSKI, MICHAEL	1/20/2017	4.00	92.00	368.00
SOPCZYNSKI, MICHAEL	1/24/2017	3.50	92.00	322.00
SOPCZYNSKI, MICHAEL	1/25/2017	2.00	92.00	184.00
SOPCZYNSKI, MICHAEL	1/27/2017	2.50	92.00	230.00
SOPCZYNSKI, MICHAEL	1/30/2017	.50	92.00	46.00
SOPCZYNSKI, MICHAEL	2/2/2017	1.00	92.00	92.00
SENIOR PROJECT SURVEYOR				
AMEY, CRAIG	1/9/2017	4.00	148.50	594.00
AMEY, CRAIG	1/10/2017	3.00	148.50	445.50
AMEY, CRAIG	1/13/2017	3.00	148.50	445.50
AMEY, CRAIG	1/14/2017	6.00	148.50	891.00
AMEY, CRAIG	1/15/2017	3.50	148.50	519.75
AMEY, CRAIG	1/16/2017	3.50	148.50	519.75
AMEY, CRAIG	1/17/2017	7.50	148.50	1,113.75
AMEY, CRAIG	1/18/2017	9.00	148.50	1,336.50
AMEY, CRAIG	1/19/2017	6.00	148.50	891.00
AMEY, CRAIG	1/20/2017	3.50	148.50	519.75
AMEY, CRAIG	1/21/2017	.50	148.50	74.25
AMEY, CRAIG	1/23/2017	5.00	148.50	742.50
AMEY, CRAIG	1/24/2017	3.00	148.50	445.50
AMEY, CRAIG	1/27/2017	1.00	148.50	148.50
AMEY, CRAIG	1/30/2017	2.00	148.50	297.00
AMEY, CRAIG	2/1/2017	3.00	148.50	445.50
AMEY, CRAIG	2/3/2017	3.00	148.50	445.50
AMEY, CRAIG	2/4/2017	2.50	148.50	371.25
CONSTRUCTION STAKEOUT				
TEAM LEADER				
GAYESKI JR., JOSEPH	1/25/2017	3.00	111.50	334.50
GAYESKI JR., JOSEPH	2/1/2017	1.50	111.50	167.25
RECORD PLANS				
TEAM LEADER				
GAYESKI JR., JOSEPH	1/9/2017	8.00	111.50	892.00
GAYESKI JR., JOSEPH	1/10/2017	6.00	111.50	669.00
GAYESKI JR., JOSEPH	1/11/2017	6.50	111.50	724.75
GAYESKI JR., JOSEPH	1/12/2017	7.00	111.50	780.50
GAYESKI JR., JOSEPH	1/13/2017	6.50	111.50	724.75
GAYESKI JR., JOSEPH	1/14/2017	4.00	111.50	446.00
GAYESKI JR., JOSEPH	1/16/2017	7.00	111.50	780.50
GAYESKI JR., JOSEPH	1/17/2017	6.50	111.50	724.75
GAYESKI JR., JOSEPH	1/18/2017	5.00	111.50	557.50
GAYESKI JR., JOSEPH	1/19/2017	5.00	111.50	557.50
GAYESKI JR., JOSEPH	1/20/2017	7.00	111.50	780.50
GAYESKI JR., JOSEPH	1/21/2017	4.50	111.50	501.75
GAYESKI JR., JOSEPH	1/23/2017	5.50	111.50	613.25
GAYESKI JR., JOSEPH	1/24/2017	6.00	111.50	669.00
GAYESKI JR., JOSEPH	1/25/2017	8.50	111.50	947.75
GAYESKI JR., JOSEPH	1/26/2017	7.50	111.50	836.25

Project	0211-0183-0	PCI 12A 15 MILE RD INTERCEPTOR REPAIR	Invoice	0113109	
	GAYESKI JR., JOSEPH	1/27/2017	8.00	111.50	892.00
	GAYESKI JR., JOSEPH	1/28/2017	4.50	111.50	501.75
	GAYESKI JR., JOSEPH	1/30/2017	7.50	111.50	836.25
	GAYESKI JR., JOSEPH	1/31/2017	2.00	111.50	223.00
	GAYESKI JR., JOSEPH	2/1/2017	3.00	111.50	334.50
	GAYESKI JR., JOSEPH	2/2/2017	2.00	111.50	223.00
	GAYESKI JR., JOSEPH	2/3/2017	2.00	111.50	223.00
	GAYESKI JR., JOSEPH	2/4/2017	3.00	111.50	334.50
RESEARCH/REVIEW					
LICENSED ENG/SUR/ARC					
	MERRILL, LEIGH	1/13/2017	.20	134.50	26.90
	MERRILL, LEIGH	1/26/2017	5.00	134.50	672.50
TEAM LEADER					
	AVERY, BRENT	1/13/2017	2.50	111.50	278.75
	AVERY, BRENT	1/14/2017	2.00	111.50	223.00
	AVERY, BRENT	1/15/2017	2.00	111.50	223.00
	AVERY, BRENT	1/16/2017	2.00	111.50	223.00
	AVERY, BRENT	1/17/2017	2.00	111.50	223.00
	AVERY, BRENT	1/18/2017	2.00	111.50	223.00
	AVERY, BRENT	1/19/2017	3.00	111.50	334.50
	AVERY, BRENT	1/20/2017	1.00	111.50	111.50
	AVERY, BRENT	1/27/2017	1.00	111.50	111.50
	AVERY, BRENT	1/30/2017	1.00	111.50	111.50
	AVERY, BRENT	2/1/2017	1.00	111.50	111.50
SENIOR PROJECT ENGINEER					
	VIGNERON, MICHAEL	1/9/2017	1.00	148.50	148.50
	VIGNERON, MICHAEL	1/10/2017	2.50	148.50	371.25
	VIGNERON, MICHAEL	1/12/2017	3.00	148.50	445.50
	VIGNERON, MICHAEL	1/13/2017	4.30	148.50	638.55
	VIGNERON, MICHAEL	1/14/2017	1.00	148.50	148.50
	VIGNERON, MICHAEL	1/16/2017	3.50	148.50	519.75
	VIGNERON, MICHAEL	1/17/2017	2.80	148.50	415.80
	VIGNERON, MICHAEL	1/18/2017	1.20	148.50	178.20
	VIGNERON, MICHAEL	1/19/2017	2.00	148.50	297.00
	VIGNERON, MICHAEL	1/20/2017	1.00	148.50	148.50
	VIGNERON, MICHAEL	1/24/2017	2.00	148.50	297.00
	VIGNERON, MICHAEL	1/25/2017	1.00	148.50	148.50
	VIGNERON, MICHAEL	1/26/2017	1.50	148.50	222.75
	VIGNERON, MICHAEL	1/27/2017	1.00	148.50	148.50
	VIGNERON, MICHAEL	2/3/2017	.50	148.50	74.25
SECRETARIAL					
SECRETARIAL					
	BICKHAM, BRENDA	1/12/2017	.50	44.50	22.25
	BICKHAM, BRENDA	1/16/2017	.50	44.50	22.25
	BICKHAM, BRENDA	1/23/2017	2.00	44.50	89.00
	BICKHAM, BRENDA	1/24/2017	2.00	44.50	89.00
	BICKHAM, BRENDA	1/26/2017	.50	44.50	22.25
	BICKHAM, BRENDA	1/27/2017	1.00	44.50	44.50
	BICKHAM, BRENDA	1/30/2017	.50	44.50	22.25
PRINTS					
ENGINEERING AIDE II					
	LEIDEKER, RONDA	1/9/2017	2.30	92.00	211.60
	LEIDEKER, RONDA	1/11/2017	1.00	92.00	92.00
	LEIDEKER, RONDA	1/13/2017	2.30	92.00	211.60
	LEIDEKER, RONDA	1/17/2017	1.20	92.00	110.40
	LEIDEKER, RONDA	1/20/2017	.40	92.00	36.80

Project	0211-0183-0	PCI 12A 15 MILE RD INTERCEPTOR REPAIR	Invoice	0113109	
	LEIDEKER, RONDA	1/23/2017	.50	92.00	46.00
	LEIDEKER, RONDA	1/24/2017	1.00	92.00	92.00
	LEIDEKER, RONDA	1/26/2017	.30	92.00	27.60
	LEIDEKER, RONDA	1/27/2017	.50	92.00	46.00
	ENGINEERING AIDE TRAINEE				
	ANKAWI, MICHELLE	1/24/2017	.30	92.00	27.60
	KAFERLE, KATHLEEN	1/9/2017	5.00	92.00	460.00
	KAFERLE, KATHLEEN	1/13/2017	1.00	92.00	92.00
	KAFERLE, KATHLEEN	1/16/2017	.40	92.00	36.80
	KAFERLE, KATHLEEN	1/18/2017	.30	92.00	27.60
	DELIVERIES				
	ENGINEERING AIDE III				
	SVOBODA, JOSEPH	1/26/2017	1.00	92.00	92.00
	UTILITIES				
	ENGINEERING AIDE III				
	SOPCZYNSKI, MICHAEL	1/13/2017	.50	92.00	46.00
	SOPCZYNSKI, MICHAEL	1/17/2017	2.50	92.00	230.00
	CONSTRUCTION PLAN DRAFT				
	TEAM LEADER				
	ALLEGOET, JEFFREY	1/9/2017	1.00	111.50	111.50
	ALLEGOET, JEFFREY	1/11/2017	1.00	111.50	111.50
	ALLEGOET, JEFFREY	1/12/2017	5.00	111.50	557.50
	ALLEGOET, JEFFREY	1/13/2017	3.50	111.50	390.25
	ALLEGOET, JEFFREY	1/14/2017	1.00	111.50	111.50
	ALLEGOET, JEFFREY	1/17/2017	1.50	111.50	167.25
	ALLEGOET, JEFFREY	1/18/2017	5.00	111.50	557.50
	ALLEGOET, JEFFREY	1/19/2017	6.00	111.50	669.00
	ALLEGOET, JEFFREY	1/20/2017	5.00	111.50	557.50
	ALLEGOET, JEFFREY	1/21/2017	5.00	111.50	557.50
	ALLEGOET, JEFFREY	1/23/2017	1.50	111.50	167.25
	ALLEGOET, JEFFREY	1/24/2017	3.00	111.50	334.50
	ALLEGOET, JEFFREY	1/25/2017	4.50	111.50	501.75
	ALLEGOET, JEFFREY	1/26/2017	1.50	111.50	167.25
	ALLEGOET, JEFFREY	1/27/2017	2.50	111.50	278.75
	ALLEGOET, JEFFREY	1/30/2017	3.00	111.50	334.50
	ALLEGOET, JEFFREY	2/1/2017	1.00	111.50	111.50
	ALLEGOET, JEFFREY	2/3/2017	1.50	111.50	167.25
	ALLEGOET, JEFFREY	2/4/2017	5.00	111.50	557.50
	HENNINGS, NANCY	1/19/2017	5.00	111.50	557.50
	HENNINGS, NANCY	1/26/2017	1.00	111.50	111.50
	ENGINEERING AIDE III				
	PIOTROWSKI, KEVIN	1/19/2017	6.80	92.00	625.60
	PIOTROWSKI, KEVIN	1/20/2017	3.60	92.00	331.20
	SOPCZYNSKI, MICHAEL	1/23/2017	4.50	92.00	414.00
	SOPCZYNSKI, MICHAEL	1/30/2017	2.00	92.00	184.00
	SOPCZYNSKI, MICHAEL	2/4/2017	3.00	92.00	276.00
	PRELIMINARY ENGINEERING				
	GRADUATE ENG/SUR/ARC				
	EBERLE, JOSEPH	1/9/2017	8.00	111.50	892.00
	EBERLE, JOSEPH	1/10/2017	.50	111.50	55.75
	EBERLE, JOSEPH	1/12/2017	7.50	111.50	836.25
	EBERLE, JOSEPH	1/13/2017	8.50	111.50	947.75
	EBERLE, JOSEPH	1/14/2017	2.50	111.50	278.75
	EBERLE, JOSEPH	1/16/2017	9.30	111.50	1,036.95
	EBERLE, JOSEPH	1/17/2017	.20	111.50	22.30
	EBERLE, JOSEPH	1/18/2017	.50	111.50	55.75

Project	0211-0183-0	PCI 12A 15 MILE RD INTERCEPTOR REPAIR	Invoice	0113109
EBERLE, JOSEPH	1/19/2017	3.40	111.50	379.10
EBERLE, JOSEPH	2/3/2017	1.50	111.50	167.25
FRAYER, CHRISTOPHER	1/9/2017	10.00	111.50	1,115.00
FRAYER, CHRISTOPHER	1/10/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/11/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/12/2017	11.50	111.50	1,282.25
FRAYER, CHRISTOPHER	1/13/2017	12.00	111.50	1,338.00
FRAYER, CHRISTOPHER	1/14/2017	4.50	111.50	501.75
FRAYER, CHRISTOPHER	1/16/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/17/2017	10.50	111.50	1,170.75
FRAYER, CHRISTOPHER	1/18/2017	11.20	111.50	1,248.80
FRAYER, CHRISTOPHER	1/19/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/20/2017	10.50	111.50	1,170.75
FRAYER, CHRISTOPHER	1/21/2017	5.00	111.50	557.50
FRAYER, CHRISTOPHER	1/23/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/24/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/25/2017	12.00	111.50	1,338.00
FRAYER, CHRISTOPHER	1/26/2017	11.50	111.50	1,282.25
FRAYER, CHRISTOPHER	1/27/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/28/2017	3.00	111.50	334.50
FRAYER, CHRISTOPHER	1/30/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	1/31/2017	11.00	111.50	1,226.50
FRAYER, CHRISTOPHER	2/1/2017	9.50	111.50	1,059.25
FRAYER, CHRISTOPHER	2/2/2017	6.50	111.50	724.75
FRAYER, CHRISTOPHER	2/3/2017	10.00	111.50	1,115.00
FRAYER, CHRISTOPHER	2/4/2017	7.00	111.50	780.50
SENIOR PROJECT ENGINEER				
CHOWN, JOHN	1/9/2017	11.00	148.50	1,633.50
CHOWN, JOHN	1/10/2017	11.00	148.50	1,633.50
CHOWN, JOHN	1/11/2017	11.00	148.50	1,633.50
CHOWN, JOHN	1/12/2017	9.50	148.50	1,410.75
CHOWN, JOHN	1/13/2017	11.00	148.50	1,633.50
CHOWN, JOHN	1/16/2017	11.00	148.50	1,633.50
CHOWN, JOHN	1/17/2017	10.00	148.50	1,485.00
CHOWN, JOHN	1/18/2017	11.00	148.50	1,633.50
CHOWN, JOHN	1/19/2017	9.50	148.50	1,410.75
CHOWN, JOHN	1/20/2017	10.00	148.50	1,485.00
CHOWN, JOHN	1/21/2017	4.50	148.50	668.25
CHOWN, JOHN	1/23/2017	7.50	148.50	1,113.75
CHOWN, JOHN	1/24/2017	10.50	148.50	1,559.25
CHOWN, JOHN	1/25/2017	11.50	148.50	1,707.75
CHOWN, JOHN	1/26/2017	9.50	148.50	1,410.75
CHOWN, JOHN	1/27/2017	10.50	148.50	1,559.25
CHOWN, JOHN	1/28/2017	6.50	148.50	965.25
CHOWN, JOHN	1/30/2017	11.00	148.50	1,633.50
CHOWN, JOHN	1/31/2017	11.00	148.50	1,633.50
CHOWN, JOHN	2/1/2017	10.50	148.50	1,559.25
CHOWN, JOHN	2/2/2017	9.50	148.50	1,410.75
CHOWN, JOHN	2/3/2017	11.00	148.50	1,633.50
CHOWN, JOHN	2/4/2017	6.00	148.50	891.00
QUANTITIES				
GRADUATE ENG/SUR/ARC				
KANAN, SYDNEY	1/23/2017	1.00	111.50	111.50
SPECIFICATIONS				
SENIOR PROJECT ENGINEER				
WINN, LYLE	1/19/2017	1.50	148.50	222.75

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WINN, LYLE	1/20/2017	3.00	148.50	445.50
WINN, LYLE	1/21/2017	7.00	148.50	1,039.50
WINN, LYLE	1/22/2017	8.00	148.50	1,188.00
WINN, LYLE	1/23/2017	5.00	148.50	742.50
WINN, LYLE	1/24/2017	3.50	148.50	519.75
WINN, LYLE	1/25/2017	2.00	148.50	297.00
WINN, LYLE	1/26/2017	6.00	148.50	891.00
WINN, LYLE	1/27/2017	6.00	148.50	891.00
WINN, LYLE	1/28/2017	4.50	148.50	668.25
WINN, LYLE	1/29/2017	3.00	148.50	445.50
WINN, LYLE	1/30/2017	2.00	148.50	297.00
WINN, LYLE	1/31/2017	3.00	148.50	445.50
WINN, LYLE	2/1/2017	3.00	148.50	445.50
WINN, LYLE	2/2/2017	6.00	148.50	891.00
WINN, LYLE	2/3/2017	6.00	148.50	891.00
WINN, LYLE	2/4/2017	5.00	148.50	742.50
WINN, LYLE	2/5/2017	5.00	148.50	742.50

CONTRACT ADMINISTRATION
PRINCIPAL ENGINEER

LOCKWOOD, SCOTT	1/9/2017	7.00	162.00	1,134.00
LOCKWOOD, SCOTT	1/10/2017	5.00	162.00	810.00
LOCKWOOD, SCOTT	1/11/2017	1.00	162.00	162.00
LOCKWOOD, SCOTT	1/14/2017	3.00	162.00	486.00
LOCKWOOD, SCOTT	1/15/2017	5.00	162.00	810.00
LOCKWOOD, SCOTT	1/16/2017	3.50	162.00	567.00
LOCKWOOD, SCOTT	1/17/2017	2.50	162.00	405.00
LOCKWOOD, SCOTT	1/18/2017	2.50	162.00	405.00
LOCKWOOD, SCOTT	1/19/2017	3.00	162.00	486.00
LOCKWOOD, SCOTT	1/20/2017	3.00	162.00	486.00
LOCKWOOD, SCOTT	1/21/2017	1.00	162.00	162.00
LOCKWOOD, SCOTT	1/24/2017	3.50	162.00	567.00
LOCKWOOD, SCOTT	1/25/2017	1.00	162.00	162.00
LOCKWOOD, SCOTT	1/26/2017	4.50	162.00	729.00
LOCKWOOD, SCOTT	1/27/2017	1.00	162.00	162.00
LOCKWOOD, SCOTT	1/29/2017	1.00	162.00	162.00
LOCKWOOD, SCOTT	1/30/2017	1.50	162.00	243.00
LOCKWOOD, SCOTT	1/31/2017	6.00	162.00	972.00
LOCKWOOD, SCOTT	2/2/2017	2.50	162.00	405.00
ROSE, ROY	1/9/2017	3.50	162.00	567.00
ROSE, ROY	1/10/2017	5.00	162.00	810.00
ROSE, ROY	1/11/2017	6.00	162.00	972.00
ROSE, ROY	1/12/2017	4.00	162.00	648.00
ROSE, ROY	1/13/2017	3.50	162.00	567.00
ROSE, ROY	1/14/2017	5.00	162.00	810.00
ROSE, ROY	1/15/2017	4.00	162.00	648.00
ROSE, ROY	1/16/2017	3.00	162.00	486.00
ROSE, ROY	1/17/2017	4.50	162.00	729.00
ROSE, ROY	1/18/2017	3.00	162.00	486.00
ROSE, ROY	1/19/2017	5.50	162.00	891.00
ROSE, ROY	1/20/2017	4.00	162.00	648.00
ROSE, ROY	1/21/2017	1.00	162.00	162.00
ROSE, ROY	1/23/2017	2.50	162.00	405.00
ROSE, ROY	1/24/2017	2.50	162.00	405.00
ROSE, ROY	1/25/2017	6.50	162.00	1,053.00
ROSE, ROY	1/26/2017	2.00	162.00	324.00
ROSE, ROY	1/27/2017	2.00	162.00	324.00

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ROSE, ROY	1/28/2017	.50	162.00	81.00
ROSE, ROY	1/30/2017	2.00	162.00	324.00
ROSE, ROY	1/31/2017	4.00	162.00	648.00
ROSE, ROY	2/1/2017	4.50	162.00	729.00
ROSE, ROY	2/2/2017	3.00	162.00	486.00
ROSE, ROY	2/3/2017	1.00	162.00	162.00
GRADUATE ENG/SUR/ARC				
EBERLE, JOSEPH	1/24/2017	1.00	111.50	111.50
MASTRACCO, STEFANIA	1/9/2017	4.00	111.50	446.00
MASTRACCO, STEFANIA	1/10/2017	7.80	111.50	869.70
MASTRACCO, STEFANIA	1/13/2017	6.50	111.50	724.75
MASTRACCO, STEFANIA	1/21/2017	1.00	111.50	111.50
WOOLARD, LUCAS	1/9/2017	3.00	111.50	334.50
WOOLARD, LUCAS	1/11/2017	5.00	111.50	557.50
WOOLARD, LUCAS	1/13/2017	4.50	111.50	501.75
WOOLARD, LUCAS	1/14/2017	6.00	111.50	669.00
WOOLARD, LUCAS	1/16/2017	2.00	111.50	223.00
WOOLARD, LUCAS	1/25/2017	4.50	111.50	501.75
WOOLARD, LUCAS	1/26/2017	3.80	111.50	423.70
WOOLARD, LUCAS	2/3/2017	.30	111.50	33.45
TEAM LEADER				
MYSLINSKI, CHARLES	1/13/2017	2.00	111.50	223.00
MYSLINSKI, CHARLES	1/16/2017	2.00	111.50	223.00
MYSLINSKI, CHARLES	1/17/2017	4.00	111.50	446.00
MYSLINSKI, CHARLES	1/18/2017	2.00	111.50	223.00
MYSLINSKI, CHARLES	1/23/2017	2.00	111.50	223.00
MYSLINSKI, CHARLES	1/24/2017	1.00	111.50	111.50
OEHMKE, WAYNE	1/9/2017	4.50	111.50	501.75
OEHMKE, WAYNE	1/12/2017	5.50	111.50	613.25
OEHMKE, WAYNE	1/13/2017	3.50	111.50	390.25
OEHMKE, WAYNE	1/16/2017	1.00	111.50	111.50
OEHMKE, WAYNE	1/17/2017	3.00	111.50	334.50
OEHMKE, WAYNE	1/20/2017	1.00	111.50	111.50
OEHMKE, WAYNE	1/23/2017	1.50	111.50	167.25
OEHMKE, WAYNE	1/25/2017	1.00	111.50	111.50
OEHMKE, WAYNE	1/26/2017	1.00	111.50	111.50
OEHMKE, WAYNE	1/27/2017	1.50	111.50	167.25
OEHMKE, WAYNE	2/2/2017	2.50	111.50	278.75
SMITH, BRADLEY	1/9/2017	3.00	111.50	334.50
SMITH, BRADLEY	1/10/2017	1.00	111.50	111.50
SMITH, BRADLEY	1/13/2017	1.50	111.50	167.25
SMITH, BRADLEY	1/16/2017	1.00	111.50	111.50
SMITH, BRADLEY	1/19/2017	1.00	111.50	111.50
ENGINEERING AIDE III				
VANFLETEREN, JOHN	1/9/2017	1.50	92.00	138.00
WINKLE, TODD	1/9/2017	10.50	92.00	966.00
WINKLE, TODD	1/10/2017	4.50	92.00	414.00
WINKLE, TODD	1/11/2017	11.00	92.00	1,012.00
WINKLE, TODD	1/12/2017	11.00	92.00	1,012.00
WINKLE, TODD	1/13/2017	10.50	92.00	966.00
WINKLE, TODD	1/16/2017	11.50	92.00	1,058.00
WINKLE, TODD	1/17/2017	11.00	92.00	1,012.00
WINKLE, TODD	1/18/2017	11.00	92.00	1,012.00
WINKLE, TODD	1/19/2017	11.00	92.00	1,012.00
WINKLE, TODD	1/20/2017	7.50	92.00	690.00
WINKLE, TODD	1/23/2017	11.00	92.00	1,012.00

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WINKLE, TODD	1/24/2017	10.50	92.00	966.00
WINKLE, TODD	1/25/2017	10.00	92.00	920.00
WINKLE, TODD	1/26/2017	9.00	92.00	828.00
WINKLE, TODD	1/27/2017	6.50	92.00	598.00
WINKLE, TODD	1/31/2017	11.00	92.00	1,012.00
WINKLE, TODD	2/1/2017	11.00	92.00	1,012.00
WINKLE, TODD	2/2/2017	10.00	92.00	920.00
WINKLE, TODD	2/3/2017	6.30	92.00	579.60
PROJECT MANAGER				
URBAN, LOUIS	1/9/2017	15.00	158.50	2,377.50
URBAN, LOUIS	1/10/2017	10.50	158.50	1,664.25
URBAN, LOUIS	1/11/2017	13.00	158.50	2,060.50
URBAN, LOUIS	1/12/2017	12.50	158.50	1,981.25
URBAN, LOUIS	1/13/2017	12.50	158.50	1,981.25
URBAN, LOUIS	1/14/2017	8.00	158.50	1,268.00
URBAN, LOUIS	1/15/2017	6.00	158.50	951.00
URBAN, LOUIS	1/16/2017	13.00	158.50	2,060.50
URBAN, LOUIS	1/17/2017	12.00	158.50	1,902.00
URBAN, LOUIS	1/18/2017	12.50	158.50	1,981.25
URBAN, LOUIS	1/19/2017	12.00	158.50	1,902.00
URBAN, LOUIS	1/20/2017	13.50	158.50	2,139.75
URBAN, LOUIS	1/23/2017	12.50	158.50	1,981.25
URBAN, LOUIS	1/24/2017	13.50	158.50	2,139.75
URBAN, LOUIS	1/25/2017	13.00	158.50	2,060.50
URBAN, LOUIS	1/26/2017	12.50	158.50	1,981.25
URBAN, LOUIS	1/27/2017	15.00	158.50	2,377.50
URBAN, LOUIS	1/28/2017	2.00	158.50	317.00
URBAN, LOUIS	1/30/2017	11.50	158.50	1,822.75
URBAN, LOUIS	1/31/2017	15.00	158.50	2,377.50
URBAN, LOUIS	2/1/2017	12.00	158.50	1,902.00
URBAN, LOUIS	2/2/2017	12.00	158.50	1,902.00
URBAN, LOUIS	2/3/2017	10.50	158.50	1,664.25
URBAN, LOUIS	2/4/2017	7.00	158.50	1,109.50
STUDIES				
ENGINEERING AIDE III				
BIRKETT, CHRISTOPHER	1/31/2017	.50	92.00	46.00
MEETINGS				
GRADUATE ENG/SUR/ARC				
MILLER, JEFFREY	1/18/2017	4.00	111.50	446.00
TEAM LEADER				
OEHMKE, WAYNE	1/9/2017	4.50	111.50	501.75
OEHMKE, WAYNE	1/10/2017	3.50	111.50	390.25
OEHMKE, WAYNE	1/11/2017	2.50	111.50	278.75
OEHMKE, WAYNE	1/13/2017	3.50	111.50	390.25
OEHMKE, WAYNE	1/15/2017	2.50	111.50	278.75
OEHMKE, WAYNE	1/17/2017	2.50	111.50	278.75
OEHMKE, WAYNE	1/24/2017	2.50	111.50	278.75
OEHMKE, WAYNE	1/25/2017	2.00	111.50	223.00
OEHMKE, WAYNE	1/26/2017	2.50	111.50	278.75
OEHMKE, WAYNE	1/27/2017	1.50	111.50	167.25
OEHMKE, WAYNE	1/31/2017	5.00	111.50	557.50
OEHMKE, WAYNE	2/1/2017	2.00	111.50	223.00
SENIOR PROJECT ENGINEER				
WINN, LYLE	1/25/2017	5.00	148.50	742.50
WINN, LYLE	1/31/2017	3.00	148.50	445.50

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CONSTRUCTION OBSERVATION

TEAM LEADER

LUMMA, KEITH	1/9/2017	14.00	111.50	1,561.00
LUMMA, KEITH	1/10/2017	14.00	111.50	1,561.00
LUMMA, KEITH	1/11/2017	14.00	111.50	1,561.00
LUMMA, KEITH	1/12/2017	12.50	111.50	1,393.75
LUMMA, KEITH	1/13/2017	13.00	111.50	1,449.50
LUMMA, KEITH	1/14/2017	6.00	111.50	669.00
LUMMA, KEITH	1/16/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/17/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/18/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/19/2017	9.50	111.50	1,059.25
LUMMA, KEITH	1/20/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/21/2017	8.00	111.50	892.00
LUMMA, KEITH	1/23/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/24/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/25/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/26/2017	13.00	111.50	1,449.50
LUMMA, KEITH	1/27/2017	13.00	111.50	1,449.50
LUMMA, KEITH	1/28/2017	9.00	111.50	1,003.50
LUMMA, KEITH	1/29/2017	4.00	111.50	446.00
LUMMA, KEITH	1/30/2017	13.50	111.50	1,505.25
LUMMA, KEITH	1/31/2017	13.50	111.50	1,505.25
LUMMA, KEITH	2/1/2017	13.00	111.50	1,449.50
LUMMA, KEITH	2/2/2017	13.50	111.50	1,505.25
LUMMA, KEITH	2/3/2017	13.50	111.50	1,505.25
LUMMA, KEITH	2/5/2017	4.00	111.50	446.00

ENGINEERING AIDE III

BARBARO, VITO	1/27/2017	7.00	92.00	644.00
BIRKETT, CHRISTOPHER	2/1/2017	6.00	92.00	552.00
BROWN, GREGORY	1/14/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/15/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/21/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/22/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/24/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/25/2017	8.20	92.00	754.40
BROWN, GREGORY	1/26/2017	5.00	92.00	460.00
BROWN, GREGORY	1/28/2017	11.50	92.00	1,058.00
BROWN, GREGORY	1/29/2017	11.50	92.00	1,058.00
BROWN, GREGORY	2/5/2017	2.00	92.00	184.00
KOCIS, ROBERT	1/9/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/10/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/11/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/12/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/13/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/14/2017	7.00	92.00	644.00
KOCIS, ROBERT	1/16/2017	5.00	92.00	460.00
KOCIS, ROBERT	1/17/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/18/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/19/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/20/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/21/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/22/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/23/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/24/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/25/2017	11.50	92.00	1,058.00

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KOCIS, ROBERT	1/26/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/27/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	1/28/2017	7.00	92.00	644.00
KOCIS, ROBERT	1/30/2017	5.00	92.00	460.00
KOCIS, ROBERT	1/31/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	2/1/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	2/2/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	2/3/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	2/4/2017	11.50	92.00	1,058.00
KOCIS, ROBERT	2/5/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/9/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/10/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/11/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/12/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/13/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/14/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/15/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/16/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/17/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/18/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/19/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/20/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/23/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/27/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/28/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/29/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/30/2017	11.50	92.00	1,058.00
ROSS, BERNARD	1/31/2017	11.50	92.00	1,058.00
ROSS, BERNARD	2/1/2017	11.50	92.00	1,058.00
ROSS, BERNARD	2/2/2017	11.50	92.00	1,058.00
ROSS, BERNARD	2/3/2017	11.50	92.00	1,058.00
ROSS, BERNARD	2/4/2017	11.50	92.00	1,058.00
ENGINEERING AIDE II				
RICHARDSON, BRIAN	1/16/2017	8.00	92.00	736.00
RICHARDSON, BRIAN	1/17/2017	5.50	92.00	506.00
RICHARDSON, BRIAN	1/18/2017	11.50	92.00	1,058.00
RICHARDSON, BRIAN	1/19/2017	11.50	92.00	1,058.00
RICHARDSON, BRIAN	1/20/2017	11.50	92.00	1,058.00
RICHARDSON, BRIAN	1/23/2017	11.50	92.00	1,058.00
RICHARDSON, BRIAN	1/25/2017	11.50	92.00	1,058.00
RICHARDSON, BRIAN	1/26/2017	9.00	92.00	828.00
RICHARDSON, BRIAN	1/27/2017	10.50	92.00	966.00
RICHARDSON, BRIAN	1/28/2017	8.00	92.00	736.00
RICHARDSON, BRIAN	1/30/2017	10.00	92.00	920.00
RICHARDSON, BRIAN	1/31/2017	10.00	92.00	920.00
RICHARDSON, BRIAN	2/1/2017	11.50	92.00	1,058.00
RICHARDSON, BRIAN	2/2/2017	11.00	92.00	1,012.00
RICHARDSON, BRIAN	2/3/2017	12.00	92.00	1,104.00
RICHARDSON, BRIAN	2/4/2017	12.00	92.00	1,104.00
RICHARDSON, BRIAN	2/5/2017	11.50	92.00	1,058.00
ENGINEERING AIDE I				
ANDERSON, KEVIN	1/9/2017	6.00	92.00	552.00
ANDERSON, KEVIN	1/10/2017	4.00	92.00	368.00
ANDERSON, KEVIN	1/27/2017	8.00	92.00	736.00

Project	0211-0183-0	PCI 12A 15 MILE RD INTERCEPTOR REPAIR	Invoice	0113109
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ARCHITECT

SENIOR PROJECT ARCHITECT

ARLOW, JASON 1/27/2017 .50 148.50 74.25

DESIGN DEVELOPMENT

GRADUATE ENG/SUR/ARC

CHIRCO, BRANDY 1/18/2017 3.20 111.50 356.80

CHIRCO, BRANDY 1/20/2017 .80 111.50 89.20

CHIRCO, BRANDY 1/26/2017 1.70 111.50 189.55

CHIRCO, BRANDY 1/27/2017 1.10 111.50 122.65

CONSTRUCTION DOCUMENTS

GRADUATE ENG/SUR/ARC

CHIRCO, BRANDY 1/12/2017 1.00 111.50 111.50

ENGINEERING AIDE III

PASAMBA, ARMANDO 1/18/2017 3.00 92.00 276.00

SENIOR PROJECT ARCHITECT

ARLOW, JASON 1/20/2017 1.00 148.50 148.50

CONSTRUCTION ADMINISTRATION

TEAM LEADER

MYSLINSKI, CHARLES 2/5/2017 10.00 111.50 1,115.00

SMITH, BRADLEY 1/23/2017 1.00 111.50 111.50

SMITH, BRADLEY 1/27/2017 1.50 111.50 167.25

SMITH, BRADLEY 1/30/2017 3.00 111.50 334.50

SMITH, BRADLEY 1/31/2017 3.00 111.50 334.50

SMITH, BRADLEY 2/1/2017 1.00 111.50 111.50

SMITH, BRADLEY 2/3/2017 6.50 111.50 724.75

SMITH, BRADLEY 2/4/2017 13.00 111.50 1,449.50

SMITH, BRADLEY 2/5/2017 12.00 111.50 1,338.00

ENGINEERING AIDE III

VANFLETEREN, JOHN 2/4/2017 11.50 92.00 1,058.00

VANFLETEREN, JOHN 2/5/2017 10.00 92.00 920.00

ENGINEERING AIDE II

WEEKS, ROBERT 2/4/2017 11.00 92.00 1,012.00

WEEKS, ROBERT 2/5/2017 11.00 92.00 1,012.00

ENGINEERING AIDE I

ANDERSON, KEVIN 2/4/2017 11.00 92.00 1,012.00

ANDERSON, KEVIN 2/5/2017 11.00 92.00 1,012.00

MECHANICAL/ELECTRICAL DESIGN

SENIOR PROJECT ENGINEER

EDWARDS, WILLIAM 1/30/2017 2.80 148.50 415.80

EDWARDS, WILLIAM 1/31/2017 1.00 148.50 148.50

STRUCTURAL

SENIOR PROJECT ENGINEER

ZAUDEL, KEVIN 1/13/2017 2.50 148.50 371.25

ZAUDEL, KEVIN 1/16/2017 5.50 148.50 816.75

ZAUDEL, KEVIN 1/17/2017 8.50 148.50 1,262.25

ZAUDEL, KEVIN 1/18/2017 8.50 148.50 1,262.25

ZAUDEL, KEVIN 1/24/2017 .50 148.50 74.25

ZAUDEL, KEVIN 1/27/2017 .50 148.50 74.25

BASE MAPS

GRADUATE ENG/SUR/ARC

MILLER, JEFFREY 1/9/2017 1.00 111.50 111.50

MILLER, JEFFREY 1/10/2017 1.00 111.50 111.50

MILLER, JEFFREY 1/11/2017 2.70 111.50 301.05

MILLER, JEFFREY 1/12/2017 2.00 111.50 223.00

MILLER, JEFFREY 1/13/2017 3.50 111.50 390.25

MILLER, JEFFREY 1/18/2017 2.00 111.50 223.00

Project	0211-0183-0	PCI 12A 15 MILE RD INTERCEPTOR REPAIR	Invoice	0113109	
	MILLER, JEFFREY	1/19/2017	3.50	111.50	390.25
	MILLER, JEFFREY	1/26/2017	1.00	111.50	111.50
	MILLER, JEFFREY	1/27/2017	1.50	111.50	167.25
	ENGINEERING AIDE III				
	SVOBODA, JOSEPH	1/12/2017	4.50	92.00	414.00
	GIS UPDATES				
	GRADUATE ENG/SUR/ARC				
	MILLER, JEFFREY	1/23/2017	3.50	111.50	390.25
	MILLER, JEFFREY	1/24/2017	1.00	111.50	111.50
	MILLER, JEFFREY	1/25/2017	1.00	111.50	111.50
	MILLER, JEFFREY	2/2/2017	1.50	111.50	167.25
	ENGINEERING AIDE III				
	JONES, CARL	1/19/2017	3.00	92.00	276.00
	FLOW MONITORING				
	SENIOR PROJECT ENGINEER				
	BEDNAR, JEFFREY	1/27/2017	.60	148.50	89.10
	BEDNAR, JEFFREY	1/30/2017	.50	148.50	74.25
	BEDNAR, JEFFREY	1/31/2017	.50	148.50	74.25
	PRELIMINARY MODELING				
	SENIOR PROJECT ENGINEER				
	BEDNAR, JEFFREY	2/2/2017	2.00	148.50	297.00
	BEDNAR, JEFFREY	2/3/2017	3.00	148.50	445.50
	Totals		3,112.80		360,336.15
	Total Labor				360,336.15

Reimbursable Expenses

REIMB. MISC. EXPENSE

1/6/2017	MACOMB MECHANICAL	Invoice #30532-01	1,255.00 *
1/6/2017	MACOMB MECHANICAL	Invoice #30532-02	1,147.00 *
1/10/2017	COMCAST	Internet-8529 10 113 0113716	333.85 *
1/11/2017	COMPASS SELF STORAGE	Feb Rent - Unit 2083	150.00 *
1/11/2017	SUPPLYDEN, INC.	Invoice #370539-00	50.91 *
1/11/2017	COMPASS SELF STORAGE	Feb Rent - Unit 2085	150.00 *
1/13/2017	LB OFFICE	Invoice #636404-0	393.40 *
1/13/2017	SPEED CLEAN SERVICES	Invoice #21838	2,841.68 *
1/16/2017	CONSUMERS ENERGY	Invoice #601010188478	110.98 *
1/17/2017	MACOMB MECHANICAL	Invoice #30537	827.00 *
1/18/2017	MACOMB MECHANICAL	Invoice #30551	1,635.00 *
1/18/2017	AEW-CREDIT CARD PURCHASES	See Attached List	9,206.17 *
1/18/2017	MACOMB MECHANICAL	Invoice #30449	7,142.50 *
1/20/2017	MACOMB MECHANICAL	Invoice #30564	562.50 *
1/20/2017	MACOMB MECHANICAL	Invoice #30515	1,804.00 *
1/20/2017	HIBBARD INSHORE	Invoice #53099	6,230.00 *
1/27/2017	LB OFFICE	Invoice #637872-0	33.81 *
1/30/2017	LB OFFICE	Invoice #637950-0	307.71 *
1/31/2017	CONSTRUCTION VIDEO MEDIA	Invoice #16-162-2	500.00 *
2/1/2017	ANSWER CONNECT	Invoice #520253	32.26 *
2/3/2017	NTH CONSULTANTS, LTD.	Invoice #608755	49,892.05 *
2/3/2017	TWO MEN AND A TRUCK	Invoice #37707, 37709	7,424.10 *
2/6/2017	SPEED CLEAN SERVICES	Invoice #21966	140.00 *
2/7/2017	HOME DEPOT-J VanFleteren	Remodeling Supplies	26.70 *
2/9/2017	GEOSYSTEMS, L.P.	Invoice #8005	10,271.68 *
2/9/2017	SPALDING, DEDECKER & ASSOC., INC.	Invoice #00073086	82,618.88 *

Project	0211-0183-0	PCI 12A 15 MILE RD INTERCEPTOR REPAIR	Invoice	0113109
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2/9/2017	SEAVIEW SYSTEMS, INC.	Invoice #697	8,695.00 *	
2/10/2017	GEI CONSULTANTS, INC.	Invoice #5002302	121,196.96 *	
2/13/2017	PMA CONSULTANTS, LLC	Invoice #04082-1	9,636.00 *	
2/13/2017	APPLIED SCIENCE, INC.	Invoice #6784	65,673.50 *	
2/14/2017	FK ENGINEERING ASSOC.	Invoice #16-113-002	437,189.55 *	
2/14/2017	SAM'S CLUB	Misc. office items	1,007.34 *	
	Total Reimbursables	1.04 times	828,485.53	861,624.95

Unit Billing

1 PERSON CREW-TOPO	63.0 HOURS @ 158.50	9,985.50	
3 PERSON CREW-TOPOGRAPHICAL SURVEY	26.5 HOURS @ 268.00	7,102.00	
2 PERSON CREW-TOPOGRAPHICAL SURVEY	262.5 HOURS @ 217.00	56,962.50	
1 PERSON CREW-RECORD PLAN	3.0 HOURS @ 158.50	475.50	
	Total Units	74,525.50	74,525.50

Additional Fees

Reduce FK Eng. 4% Mark Up-DLZ & 7NT Inv.	-4,622.35	
Total Additional Fees	-4,622.35	-4,622.35

Total this Invoice **\$1,291,864.25**

pay

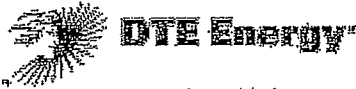
Outstanding Invoices

Number	Date	Balance
0112998	2/2/2017	783,543.20
Total		783,543.20

17-069

15600 Nineteen Mile Rd.
Clinton Township, MI 48038

M4



Wednesday, February 8, 2017

Macomb County Public Works
Tom Stockel
21777 Dunham Rd.
Clinton Twp., MI 48312

Regarding: 15203 E 15 Mile Rd., Clinton Township

Enclosed are two (2) copies each of the Overhead Temporary Service Agreement with Temporary Line Extension and the Electrical Drawing for your project. Please make sure that you agree with the information on these documents. When you are satisfied that the information is correct, please sign one (1) copy of each. The payment for this work is \$21,011.80. The work to be performed is described as: In 3-250kVA OH Xfmrs for 480V secondary service to dewatering pumps. Removal of same once all work is completed.

The price of construction quoted will be in effect for a period of six months from the date of this agreement. This reimbursement amount must be paid prior to the actual start of construction. If the installation of a transformer is required, the minimum monthly amount indicated on the enclosed agreement will be in addition to the monthly service charge.

Please return the signed documents to me with a check made payable to DTE Energy. To ensure proper credit, the contract number should be indicated on your remitted check. Keep the "Customer Copy" documents for your records. When we receive the signed documents and your check, we will proceed to schedule the work.

If you have any questions regarding this job, please feel free to contact me at the phone number or e-mail address indicated below:

chg: ^{#3000} MIDD (15 mile Senehole) ²⁰¹⁶

Date	2.16.17
Chief Deputy	AB
Engineer(s)	RS, JA
Manager(s)	
Coordinator(s)	BD
Finance Officer	RAM

Sincerely,

Mark G Koski

Mark G Koski
Planner
586-412-4713
mark.koski@dteenergy.com

4128
PAID FEB 23 2017

enclosures: PA 0350620100
Two copies of the Temporary Service Agreement
Two copies of the Electrical Layout (Attachment A)

Staff 3.7.17
Board 3.13.17

17-083

RECEIVED
FEB 23 2017
MH

15600 Nineteen Mile Rd.
Clinton Township, MI 48038



Thursday, February 16, 2017

Macomb County Public Works
Tom Stockel
21777 Dunham Rd.
Clinton Twp., MI 48038

4139
PAID FEB 24 2017

Regarding: 15474 E 15 Mile Rd., Clinton Township

Enclosed are two (2) copies each of the Underground Temporary Service Agreement with Temporary Line Extension and the Electrical Drawing for your project. Please make sure that you agree with the information on these documents. When you are satisfied that the information is correct, please sign one (1) copy of each. The payment for this work is \$17,867.98. The work to be performed is described as: In 1-500kVA 13kV-480V padmount transformer for dewatering at east end of sinkhole. Labor charges to install and removal of same at end of project. Installation of primary cable not included in these charges as this will benefit DTE Electric.

The price of construction quoted will be in effect for a period of six months from the date of this agreement. This reimbursement amount must be paid prior to the actual start of construction. If the installation of a transformer is required, the minimum monthly amount indicated on the enclosed agreement will be in addition to the monthly service charge.

In addition, two copies of the Certificate of Grade must be signed and returned. Please return the signed documents to me with a check made payable to DTE Energy. To ensure proper credit, the contract number should be indicated on your remitted check. Keep the "Customer Copy" documents for your records. When we receive the signed documents and your check, we will proceed to schedule the work.

If you have any questions regarding this job, please feel free to contact me at the phone number or e-mail address indicated below.

by MIDD (15 mile sinkhole)

Agreement #46919671
Temp. Power Drop

Sincerely,
Mark G Koski

Mark G Koski
Planner
586-412-4713
mark.koski@dteenergy.com

Date	2-23-17
Chief Deputy	BS
Engineer(s)	TRS, UA
Manager(s)	
Coordinator(s)	BO
Finance Officer	pkw
enclosures:	

70100 PA03S102

- Two copies of the Temporary Service Agreement
- Two copies of the Electrical Layout (Attachment A)
- Three copies of the Certificate of Grade

0092-05-1

State 3-7-17

17-084

RECEIVED
FEB 23 2017
MH

15600 Nineteen Mile Rd.
Clinton Township, MI 48038



Thursday, February 16, 2017

4140
PAID FEB 24 2017

Macomb County Public Works
Tom Stockel
21777 Dunham Rd.
Clinton Twp., MI 48038

Regarding: Fontana & 15 Mile Rd, Sterling Township *pay*

Enclosed are two (2) copies of the Accounts Receivable Agreement for your signature. The payment for this work is \$2,651.23 based on:

Perform a de-energization of 3-phase overhead lines in the vicinity of Fontana Drive and 15 Mile road in Sterling Hts. Emergency - sinkhole project. Duration of temporary load transfer of approximately 1MVA connected will be approx. 8 hours. Return to normal circuit configuration at end of workday.

Please return the signed agreement to me with a check made payable to DTE Energy. Keep the "Customer Copy" document for your records. To ensure proper credit, the Agreement number should be indicated on your remitted check. When we receive the signed agreement and your check, we will proceed to schedule the work.

If you have any questions regarding this job, please feel free to contact me at the phone number or e-mail address indicated below.

Temp. Power Drops - (15 mile Sinkhole)
Chg - MIDD
Agreement # 47083111

Date	2.23.17
Chief Deputy	<i>TR</i>
Coordinator(s)	<i>30</i>
Finance Officer	<i>MM</i>

Sincerely,
Mark G Koski
Mark G Koski
Planner
586-412-4713
mark.koski@dteenergy.com

enclosures: PA035103 7 01 00
Two copies of the Accounts Receivable Agreement

0092-05-1

Staff 3-7-17

17-085

RECEIVED
FEB 23 2017
MIT

15600 Nineteen Mile Rd.
Clinton Township, MI 48038



Thursday, February 16, 2017

4141

PAID FEB 24 2017

Macomb County Public Works
Tom Stockel
21777 Dunham Rd.
Clinton Twp., MI 48038

Regarding: 15296 E 15 Mile Rd., Clinton Township

Enclosed are two (2) copies each of the Underground Temporary Service Agreement with Temporary Line Extension and the Electrical Drawing for your project. Please make sure that you agree with the information on these documents. When you are satisfied that the information is correct, please sign one (1) copy of each. The payment for this work is \$18,158.46. The work to be performed is described as: In 1-500kVA 13kV-480V padmount transformer and approx. 180' of 3-phase #2Al UG primary cable. Removals of same once the project is completed.

The price of construction quoted will be in effect for a period of **six months** from the date of this agreement. This reimbursement amount must be paid prior to the actual start of construction. If the installation of a transformer is required, the minimum monthly amount indicated on the enclosed agreement will be in **addition** to the monthly service charge.

In addition, two copies of the Certificate of Grade must be signed and returned. Please return the signed documents to me with a check made payable to DTE Energy. To ensure proper credit, the contract number should be indicated on your remitted check. Keep the "Customer Copy" documents for your records. When we receive the signed documents and your check, we will proceed to schedule the work.

If you have any questions regarding this job, please feel free to contact me at the phone number or e-mail address indicated below.

chg: MIDD (15 mile Subhole) Agreement # 46919353
Temp Power Drop

Date	2.23.17
Chief Deputy	AB
Engineer(s)	TRS, VA
Manager(s)	
Coordinator(s)	BO
Finance Officer	MM

Sincerely,

Mark G Koski

Mark G Koski
Planner
586-412-4713
mark.koski@dteenergy.com

enclosures:

- Two copies of the Temporary Service Agreement
- Two copies of the Electrical Layout (Attachment A)
- Three copies of the Certificate of Grade

70100 PA035104

0092-05.1

Staff 3-7-17



Fishbeck, Thompson, Carr & Huber, Inc.
engineers | scientists | architects | constructors

Federal I.D. No. 38-1841857 | Incorporated

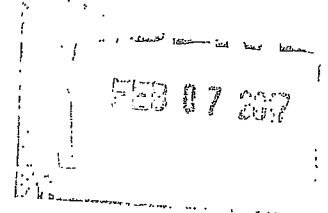
MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted



FEBRUARY 6, 2017
INVOICE SUMMARY
ACCOUNT NO: 120985

INVOICE NO: 364201

MR VINCENT ASTORINO
OFFICE OF MACOMB COUNTY
PUBLIC WORKS
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

INVOICE SUMMARY THROUGH 01/27/2017. DETAILED CHARGES ARE ATTACHED.

<u>PROJECT</u>	<u>DESCRIPTION</u>	<u>AMOUNT</u>
G130622I	MACOMB CO PW/SINK HOLE	\$5,987.50
GRAND TOTAL		<u>\$5,987.50</u>

Chg: MIDD (Sinkhole)

2-7-17

Chief Deputy ko

Engineer(s) JA

Manager(s) _____

Coordinator(s) BD

Finance Officer btm

Staff - 2-21-17
Board 3-13-17

PA-034954 80300
207



Fishbeck, Thompson, Carr & Huber, Inc.
engineers | scientists | architects | constructors

Federal I.D. No. 38-1841857 | Incorporated

MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 6, 2017
G130622I MES
ACCOUNT NO: 120985

INVOICE NO: 364201

MR VINCENT ASTORINO
OFFICE OF MACOMB COUNTY
PUBLIC WORKS
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/SINK HOLE
FRASER SINK HOLE ASSISTANCE

THIS INVOICE IS FOR THE BILLING PERIOD THROUGH 01/27/2017
WORK INCLUDED PREPARING AND SUBMITTING THE SSO MITIGATION
PLAN, REVIEW OF METER DATA TO DETERMINE FLOWS
AND WORK ON CALIBRATING THE HYDRAULIC MODEL

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	22.50	\$169.00	\$3,802.50
ENGINEER	20.00	104.00	2,080.00
PRODUCTION SUPPORT	1.50	70.00	105.00
			<u>5,987.50</u>
		TOTAL	<u><u>\$5,987.50</u></u>

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829

Invoice No. 7321-2017

MACOMB COUNTY PUBLIC WORKS COMMISSIONER

21777 Dunham Road
Clinton Township MI 48036
Phone: (586) 469-5325

INVOICE

Customer

Name Fraser Senior Housing (City of Fraser)
c/o Office Manager
Address 34950 Hidden Pine Dr
City Fraser MI ZIP 48026

Date 2/22/2017

Description	TOTAL
Lease payment made on behalf of George & Lillian Raimondi, Apt #103 due to 15 Mile Sinkhole displacement from home.	
Non Refundable Cleaning Fee	\$635.00
Security Deposit	\$635.00
Lease for January, 2017	\$635.00
Lease for February, 2017	\$635.00
Lease for March, 2017	\$635.00
<i>Lease payments due 1st of each month hereafter, beginning April 1, 2017</i>	
TOTAL	\$3,175.00

4138

PAID FEB 24 2017

#3000

Chg: MIDD (15 Mile Sinkhole)

Date	<u>2-22-17</u>
Chief Deputy	<u>AB</u>
Engineer (s)	<u>JA</u>
Manager (s)	<u></u>
Coordinator (s)	<u>BD</u>
Finance Officer	<u>MM</u>

PA035101

95000

Staff 3-7-17

0092-05.1
209

FEB 28 2017

INVOICE

HESCO

Branch: 001

Hesco- Sales

28838 Van Dyke Ave
Warren, MI 48093
USA

586-978-7200



INVOICE	
1015469	
Invoice Date	Page
2/22/2017 13:47:08	1 of 1
ORDER NUMBER	
1012974	

Bill To:

Macomb County Public Works Commission
21777 Dunham Rd
Clinton Twp, MI 48036
UNITED STATES

Ship To:

Macomb County Public Works Commission
21777 Dunham Rd
Clinton Twp, MI 48036
UNITED STATES

Customer ID: 10361

PO Number	Term Description	Net Due Date	Disc Due Date	Discount Amount
2-6-209	Net 30	3/24/2017	3/24/2017	0.00

Order Date	Pick Ticket No	Primary Salesrep Name	Taker
2/1/2017	1004456	Kevin Livingston	HEATHER_BRAWNER

Quantities					Item ID	Pricing UOM	Unit Price	Extended Price
Ordered	Shipped	Remaining	UOM Unit Size	Item Description				
1.00	1.00	0.00	EA	MACOMB CNTY PUMPS Sodium Hypochlorite Pumps	EA	22,125.00	22,125.00	

Carrier: Tracking #:

Six (6) peristaltic metering pumps with automatic and manual flow pacing control capable of pumping sodium hypochlorite at a maximum of 7.0 GPH and 100 psig.

24.00	16.00	8.00	EA	FIELD SERVICE Field Service to Install Chem feed pumps	EA	156.25	2,500.00
-------	-------	------	----	---	----	--------	----------

Total Lines: 2

Total Freight In: 0.00

Total Freight Out: 1,500.00

SUB-TOTAL: 24,625.00
TOTAL FREIGHT: 1,500.00
TAX: 0.00
AMOUNT DUE: 26,125.00

Chg: MIDD (15 mile) (Sulch)

pay

Date _____
 Chief Deputy BP
 Engineer(s) JA
 Manager(s) _____
 Coordinator(s) BD
 Finance Officer MM

0092-05-1

Staff 3-7-17
ORIGINAL

Board 3-13-17

PA0351219



MACOMB COUNTY PUBLIC WORKS
 21777 Dunham Road
 Clinton Township, Michigan 48036
 586-469-5325 - Fax 586-469-5933

Purchase Order No. 2-6-209

PURCHASE ORDER

Vendor
 Name: HESCO
 Attn: _____
 Address: 28838 VAN DYKE
 City: WARREN MI 48093

Ship To
 Name: 15 MILE & HAYES (SINKHOLE)
 Address: _____
 City: FRASER St MI ZIP 48026
 Attn: _____

Date: FEBRUARY 6, 2017

Qty	Units	Item No.	Description	Unit Price	TOTAL
1	LS		Sodium Hypochlorite Pumps/Rotameter Panels Six (6) peristaltic metering pumps with automatic and manual flow pacing control capable of pumping sodium hypochlorite at a maximum of 7.0 GPH and 100 psig. Six (6) high density polyethylene pump wall mount brackets Six (6) high density polyethylene wall mount rotameter panels including: One (1) PVC pressure relief valve One (1) 0.025 - 0.25 GPM rotameter One (1) lot of SCH 80 PVC piping, ball valves, unions, etc Six (6) PVC corporation stops with injection quills		\$31,125.00
2	24 hr		Field Service to install Tax Exempt #38-6004868	\$156.25	\$3,750.00
Payment Details					
Subtotal					\$34,875.00
Shipping & Handling					\$2,500.00
Estimated Taxes					Exempt
TOTAL					\$37,375.00

Approval _____

Date _____
 Quote _____
 Sales Rep _____
 Ship Via _____



INVOICE

INVOICE NUMBER	3011495175
INVOICE DATE	01/17/2017

SHIP-TO ACCOUNT NUMBER	13502
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BILL-TO ACCOUNT NUMBER	13502
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M4

Billing Address

MACOMB CTY OFFICE OF PUBLIC WORKS
 23001 NINE MILE ROAD
 SAINT CLAIR SHORES, MI 48080

Shipping Address

MACOMB CTY OFFICE OF PUBLIC WORKS
 23001 NINE MILE ROAD
 SAINT CLAIR SHORES, MI 48080

PO NUMBER		PAYMENT TERMS				DELIVERY NUMBER		CURRENCY	
Shawn		Net Due on 25th of next month				8003703187		USD	
SHIP DATE	ITEM#	DESCRIPTION	UNIT PRICE	UNIT	QTY	GROSS AMOUNT	DISCOUNT	NET AMOUNT	
01/17/2017	98-12972-00	WP020I GAMMA IRRAD COLILERT 100ML 20PK Valued Customer Discount -135.77	145.02	EA	2	290.04	-135.77	154.27	
01/17/2017	98-08876-00	WP020I-18 GAMMA IRRAD COLILERT-18 20PACK Valued Customer Discount -69.88	159.87	EA	1	159.87	-69.88	89.99	
01/17/2017	98-21675-00	WQT2K QUANTI-TRAY 2000 DISPOSABLE 100/BX	208.28	EA	1	208.28		208.28	
01/17/2017	98-09221-00	WV120SBST-200, VESSELS W/ST AND SB, 200PK	134.39	CS	1	134.39		134.39	
Shipping								37.89	
Total amount								624.82	
Chg: MIDD - 1.5 mile Substn #3000									
2-14-17									
AS		74100							
Manager(s) UA		PA035031							
Coordinator(s) SD									
Finance Officer Mms									

Save Money, Save Time & Go Green
 Save money, time and a tree by switching to electronic billing.
 Simply contact us with your invoice delivery preference:
 online at our Invoice Gateway web site, email or fax.

Please have your account number and enrollment token available (found on printed invoice)
 Go to idexx.billtrust.com to sign up for IDEXX's Invoice Gateway
 Contact Accounts Receivable at accountsreceivable@idexx.com to switch to email or fax delivery

Dairy or Water Products 800-321-0207 This transaction is subject to the IDEXX terms and conditions of sale found at <https://www.idexx.com/naterms>
 IDEXX'S privacy policies can be viewed at <https://www.idexx.com>

Please detach this section and enclose with your payment. DO NOT SEND CASH!

IDEXX Laboratories, Inc.
 One IDEXX Drive
 Westbrook, Maine 04092

ACCOUNT NUMBER	INVOICE NUMBER	INVOICE DATE
13502	3011495175	01/17/2017
TOTAL DUE		CURRENCY
\$624.82		USD

Enter Amount Enclosed: 624.82

If you would like to pay by credit card or make an online payment from your checking account, please enroll in Invoice Gateway using the below website and enrollment token.
 Website: <http://idexx.billtrust.com>
 Enrollment Token: LFX HML PKK

To sign up for our Autopay Program please call: 800-321-0207

Please Send Your Payment To This Address:

IDEXX Distribution, Inc.
 PO Box 101327
 Atlanta, GA 30392-1327

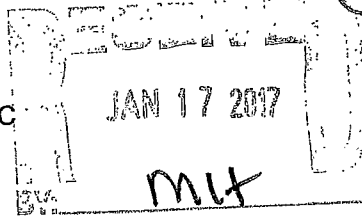
711 SP 0.485 E0071X I0080 D2159783859 S2P3865155 0001:0001

 MACOMB CTY OFFICE OF PUBLIC WORKS
 23001 E 9 MILE RD
 SAINT CLAIR SHORES MI 48080-1576

Staff 2.21.17

\$22,789.54 pay

KIRK, HUTH, LANGE & BADALAMENTI, PLC
Attorneys at Law
19500 Hall Rd., Suite 100
Clinton Township, MI 48038



0092-05.1

Chg: NCWDD - MID

Invoice submitted to:
Macomb County Public Works
MIDDD
21777 Dunham Rd
Clinton Twp, MI 48036

Date	1.18.17
Chief Deputy	AB
Engineer(s)	
Manager(s)	
Coordinator(s)	BD
Finance Officer	WMM

January 01, 2017

In Reference To: MIDDD 2016 Sinkhole

Invoice #80033

PA034853 804.00

Professional Services

Date	Init.	Description	Hrs/Rate	Amount
12/27/2016	RWK	Numerous phone conferences with MCPW - MIDDD, R. Rose and S. Lockwood of AEW; meetings at site (5 hours); mtgs w/engineers re: Required Easements; phone call with T. Berger (resident of Eberlien) re: Access Easement; phone calls and meeting with Berger Atty R. Seibert; work on drafts of Agreement and Pleadings for TRO for Access; Phone call with Atty Hissong	11.00 \$250.00/hr	\$2,750.00
	MJD	Macomb Interceptor, research re takings outside of Uniform Condemnation Procedure Act, interoffice attorney conference; draft of ex parte order	5.50 \$250.00/hr	\$1,375.00
	RB	Research re: takings/easements/emergency repair plans; receipt and review of documents re: lands to be traversed and engineering plans; Interoffice conference re: same	2.50 \$250.00/hr	\$625.00
	PM	Review law regarding condemnation and emergency access easements; begin drafting emergency access agreement for a temporary roadway over the Benders' property; attend meeting at 15 Mile with RWK (5 hours), meet on site with Roy Rose of AEW and Scott Lockwood about current easement needs; continue drafting emergency access easement; draft license agreement for usage of Macomb Community College property at the corner of 15 and Hayes; draft affidavit of Roy Rose regarding the necessity for immediate access to the vacant Lot 23 of the Whispering Pines Subdivision; research ownership of other properties within the subdivision that may need to provide easements; pull the subdivision plat from the Register of Deeds (\$6.00); assist MJD with the pleadings to be filed tomorrow morning;	10.50 \$250.00/hr	\$2,625.00

Staff- 1-24-17

Board- 2.13.17 3.13.17

FEB 13 2017

KIRK, HUTH, LANGE & BADALAMENTI PLC
Attorneys at Law
19500 Hall Rd., Suite 100
Clinton Township, MI 48038

#3000
Chg: MIDD - 2016 Sinkhole

M4

Invoice submitted to:
Macomb County Public Works
MIDD
21777 Dunham Rd
Clinton Twp, MI 48036

2.13.17

City Deputy AB

Engineer (s) _____

Manager (s) _____

Coordinator (s) JD

Finance Officer AMM

0092-05.1

February 01, 2017

In Reference To: MIDD 2016 Sinkhole
Invoice #80296

PA035033 80400

Professional Services

Date	Init.	Description	Hrs/Rate	Amount
1/3/2017	PM	Revise temp roadway access agreement per RWK; send to Bob Seibert - counsel for the Benders; memo to Ben Aloia regarding status of documents; receipt/review & respond of email from counsel for Arby's; compile all documents and update memo to Aloia regarding status of issues/agreements; emails regarding agreements & docs with Aloia	2.25 \$250.00/hr	\$562.50
1/4/2017	RP	Appear at Ben Aloia's office to hand deliver temporary emergency access easement agreement	0.50 \$85.00/hr	\$42.50
	PM	Attention to road easement agreement with the Benders; emails with Ben and Jeff at Aloia office regarding notices of claims; phone conference with attorney Seibert regarding the Benders' Notice of Claim and to whom they should direct it;	0.25 \$250.00/hr	\$62.50
1/5/2017	PM	Review and revise summary memo for John Schapka per RWK	1.00 \$250.00/hr	\$250.00

Additional Charges :

Date	Description	Hrs/Rate	Amount
1/3/2017	Mileage Fee to take file to Ben's office - $\$.53.5 \times 9 \text{ miles} = \4.82		4.82
	For professional services rendered	4.00	\$922.32
	Total amount of this bill		\$922.32
	Previous balance		\$22,789.54

Staff 2-21-17
Board 3-13-17



New Pig

One Pork Avenue
Tipton, PA 16684-0304

U.S.A. Federal ID # 23-2363423
Cage Code 1JA49

U.S.A. P.R., Canada and Mexico ordering 1-800-HOT-HOGS (468-4647) / FAX 1-800-621-PIGS (621-7447)
Accounts Receivable + 1-888-468-5207 / FAX + 1-814-684-0644

INVOICE in U. S. Dollars

CUSTOMER NUMBER	INVOICE NUMBER	INVOICE DATE
4518863	22121990-00	01/30/17

Ordered by

MACOMB COUNTY PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080-1576

Bill To

MACOMB COUNTY PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080-1576

Ship To

MACOMB COUNTY PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080-1576

MH

Please make checks payable to New Pig Corporation

TERMS	CUSTOMER PURCHASE ORDER NUMBER	ORDER DATE	SHIPPED VIA	DATE SHIPPED	PAGE
Net 30 Days	VERB BRENT AVERY	01/30/17	UPS Ground	01/30/17	1

LINE	ITEM/DESCRIPTION	QUANTITY ORDERED	QUANTITY SHIPPED	QUANTITY BACKORDERED	UNIT PRICE	TOTAL
1	BOM413 PIG Dark Oil-Only Absorbent Boom 5" x 20', Absorbs up to 12 gal. per boom, 2 booms	4	4	0	113.00	452.00
2	MAT203 PIG Absorbent Mat Pad Heavyweight, 15" x 20", 100 pads	1	1	0	66.30	66.30
SUB TOTAL						518.30
Freight Out						70.25
TOTAL U. S. Dollars						588.55

REMIT IN U. S. Dollars
New Pig Corporation
One Pork Avenue
Tipton, PA 16684

#3000 0092-05.1

Chg: M1000 - (15 mile Sinkhole)

2-21-17

 Engineer(s) *UA*
 Manager(s) _____
 Coordinator(s) *BD*
 Finance Officer *hwm*

Staff 3-7-17
Board 3-13-17

PA035080 74000



New Pig

One Pork Avenue
Tipton, PA 16684-0304

U.S.A. Federal ID # 23-2363423
Cage Code 1JA49

U.S.A. P.R., Canada and Mexico ordering 1-800-HOT-HOGS (468-4647) / FAX 1-800-821-PIGS (821-7447)
Accounts Receivable + 1-888-468-5207 / FAX + 1-814-684-0644

INVOICE in U. S. Dollars

CUSTOMER NUMBER	INVOICE NUMBER	INVOICE DATE
4518863	22126313-00	02/07/17

Ordered by

MACOMB COUNTY PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080-1576

Bill To

MACOMB COUNTY PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080-1576

Ship To

MACOMB COUNTY PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080-1576

02-207
MH

Please make checks payable to New Pig Corporation

TERMS	CUSTOMER PURCHASE ORDER NUMBER	ORDER DATE	SHIPPED VIA	DATE SHIPPED	PAGE
Net 30 Days	17-9306	02/03/17	UPS Ground	02/06/17	1

LINE	ITEM/DESCRIPTION	QUANTITY ORDERED	QUANTITY SHIPPED	QUANTITY BACKORDERED	UNIT PRICE	TOTAL
3	ADDL ITEM(S) HAVE BEEN PLACED ON ORDER 22125881-00 BOM104 EconoMax Boom For Calm Water & Low Current, 10" Draft Dimensions 6" Freeboard Dimensions	3	3	0	504.00	1512.00
						SUB TOTAL 1512.00
						Freight Out 98.16
						TOTAL U. S. Dollars 1610.16
	REMIT IN U. S. Dollars New Pig Corporation One Pork Avenue Tipton, PA 16684					

#3000 0092-05.1
Chg: MID (15 mile Sinkhole)

2-21-17

Chief Deputy

Manager

Coordinator(s)

Finance Officer

PA 035079 97600

Staff 3-7-17
Board 3-13-17



Candice S. Miller

Public Works Commissioner
Macomb County

March 3, 2017

MEMORANDUM

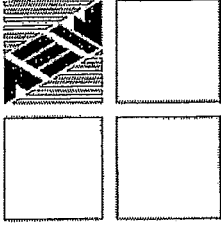
TO: Brian Baker, Chief Deputy

FROM: Evans Bantios, P.E., Engineer II *EB*

RE: Ric-Man Construction
15 Mile Road Sinkhole Project
Partial Payment Estimate

As stated in the attached letter, we request that the Macomb Interceptor Drain Drainage District Board provide partial payment to Ric-Man for services performed as part of the ongoing services associated with the 15 Mile Road Sinkhole Project. We are currently in the process of reviewing the three (3) pay estimates that total \$11,381,490.88. This effort is ongoing and will take a few weeks. This partial payment neither implies approval of disapproval of the invoice values, but rather represents an action by the Owner to support the Contractor's continuing efforts on this project. We request a payment of \$5,690,745 be sent to Ric-Man for this project.

Attachment



ANDERSON, ECKSTEIN AND WESTRICK, INC.

51301 Schoenherr Road, Shelby Township, Michigan 48315
Civil Engineers • Surveyors • Architects 586-726-1234

Ric-Man Construction, Inc.
42600 R. Mancini Drive

March 1, 2017
AEW Project No. 0211-0183

Attn: Mr. Patrick Jones, Project Manager

AEW /RCI - 005

Subject: Pay Estimate 1-3 covering period 12/24/16 through 2/4/17

Dear Mr. Jones,

We wish to offer a formal reply to your letter dated February 27, 2017 presented at today's progress meeting in regards to the commencement of progress payments for work performed at the referenced project.

The Engineer and the Owner understand the basis for your request, and concur that payment for Work performed under the Contract terms is reasonable and appropriate. In addition, we are in agreement that Ric-Man Construction, Inc. and its Subcontractors have performed in a commendable manner since the inception of this emergency project on December 24, 2016, and have typically responded to the ever changing scope of work in a proficient and expeditious manner.

As you are fully aware, the cost of this emergency work is substantial and is being performed under a contractual relationship that is uncommon for major public work. We note the substantial amount of time invested by your staff in creating the progress payment applications and suggest that an equal, or perhaps even greater, amount of time is required by our staff to review and approve the applications while consistently adhering to the scrutiny of the public interests.

Accordingly, we will recommend to the Macomb Interceptor Drain Drainage Board that an initial progress payment be approved in an amount equal to 50 % of the actual value requested, with the remaining as-approved balance to be released pending final review with Ric-Man Construction. Please note further that this transaction neither implies approval nor disapproval of the invoiced values, but rather represents an action by the Owner to support the Contractor's continuing efforts while administrative review procedures are completed.

We again extend our appreciation for the efforts provided by the entire Ric-Man Team, and look forward to completing the emergency phase of this project. Please contact us if you have further questions or comments.

Please contact us to meet and further review this issue.

Sincerely,

Louis J. Urban, P.E.
Project Manager

Vincent Astorino, P.E., Wastewater Engineer, II
Macomb County Public Works

Cc: C. Miller (MCPWC)
F. Klingler (FKE)
K. Ridgway (ASI)
R. Rose (AEW)



Invoice submitted to:
 Macomb Interceptor Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice No. 18529
 Invoice Date: 2/8/2017
 Billing period: - 1/31/2017

Matter: 15 Mile Road Sinkhole

Previous balance		\$0.00
Payments and other transactions		\$0.00
Total fees		\$1,824.00
Total expenses		\$0.00
Total new charges	Chg: MIDD (#3000 (2016 sinkhole))	\$1,824.00
Requested funds replenishment	2.8.17	\$0.00
Balance Due		\$1,824.00

Chief Deputy AB
 Engineer(s) _____
 Manager(s) _____
 Coordinator(s) BD
 Finance Officer AM

0092-05.1 PA-034969 80400

Please detach this section and return it with your payment to ensure that your account is properly credited.

Macomb Interceptor Drain Drainage District
 21777 Dunham Road
 Clinton Township, MI 48036

Invoice No. 18529
 Invoice Date: 2/8/2017



Previous balance	\$0.00
Transactions	\$0.00
New charges	\$1,824.00
Funds replenishment	\$0.00
Balance due	\$1,824.00
Payment amount	\$ 1824.00

Staff - 2.21.17

Board 3-13-17

RECEIVED
FEB 21 2017
BY: MIT

Michigan Finance Authority
State Revolving Funds

Mr. Brian Baker, Chief Deputy Public Works Director
Macomb County Interceptor Drain Drainage District
21777 Dunham Road

Clinton Township, MI 48036
Phone: (586) 469-5325 Ext: Fax: (586) 469-5933
Email:

INVOICE

Due Date	Project Number	ID	Loan Commitment	Principal	Interest	Total
03/27/2017	5624-01	CW	\$3,675,000.00	\$0.00	\$26,328.89	\$26,328.89
Chg: MID-SEF #0162				TOTAL AMOUNT DUE: \$26,328.89		

2-21-17 *If your total amount due includes; CW, DW, and/or SWQF loans, you no longer need send separate payments
If you have any questions please contact Nichole Dorr at 517-335-0525
Chief Deputy MB If you have changes to the contact/billing information please Email those changes to dorrn@michigan.gov.

Engineer(s) _____
Manager(s) _____
Coordinator(s) DD
Finance Officer Mfm

PA 035069

Below please find three methods of payment to the Michigan Finance Authority

Preferred Method of Payment

Payment via Federal Wire Transfer for ALL Loan Types:
WIRE transfers MUST be initiated by 10:00 a.m. on

03/27/2017 and sent to:
The Bank of New York Mellon, N.A.
ABA: 021-000-018
A/C: 3919348400
Reference: 1484-MFA

Payment via ACH Transfer for ALL Loan Types:
To allow for processing time ACH transfers MUST
be initiated by 03/23/2017 and sent to:

The Bank of New York Mellon, N.A.
ABA: 021-000-018
A/C: 8900626003
Reference: 1484-MFA
Please note, the Reference information must be
included on the ACH transfer.

Payment By Check For ALL Loan Types
To allow for processing time checks must be
RECEIVED by 03/20/2017 .

For proper credit please include a copy of this
invoice and note the reference: 1484-MFA
on the check. Please mail your payment to:
The Bank of New York Mellon, N.A.
ATTN: Pooled Finance Unit - Robert Ferencchi
10161 Centurion Parkway N.
Jacksonville, FL 32256

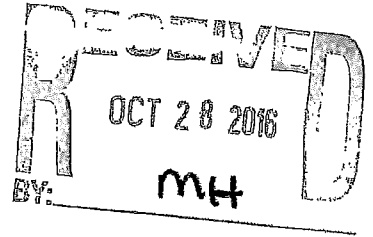
Please note, the Reference information must be included
on the wire transfer.

Staff 3.7.17
Vanta 3.13.17

COPY



Please Remit to:
Giffels Webster
28 W. Adams, Suite 1200
Detroit, MI 48226
Phone: 313-962-4442



MACOMB COUNTY DEPT OF PUBLIC WORKS
21777 DUNHAM ROAD
CLINTON TOWNSHIP MI 48036

DATE: 10/21/2016
INVOICE: 112374
PROJECT: 18214.02

Attention: WILLIAM MISTEROVICH

PROJECT: MACOMB ELEMENT & STERLING HEIGHTS ARM
INTERCEPTOR & MANHOLE REHABILITATION
SRF PROJECT NO. 5624-01
MCPWCO NO. 09-0014.16.1

Professional Services rendered from 9/25/2016 - 9/30/2016

DESCRIPTION	CONTRACT AMOUNT	AMOUNT COMPLETE	REMAINING BUDGET	PREVIOUSLY INVOICED	DUE THIS INVOICE
Giffels Webster Project 18214.02					
Task 1 - Survey & Geotechnical Analysis	\$ 45,000.00	\$ 29,796.06	\$ 15,203.94	\$ 29,796.06	\$ -
Task 2 - Engineering Design & Contract Documents	\$ 165,000.00	\$ 164,147.25	\$ 852.75	\$ 164,147.25	\$ -
Task 3 - Bidding Administration	\$ 52,500.00	\$ 31,466.43	\$ 21,033.57	\$ 31,466.43	\$ -
Task 4 - Construction Administration	\$ 75,000.00	\$ 70,605.00	\$ 4,395.00	\$ 68,400.00	\$ 2,205.00
Task 5 - Construction Inspection	\$ 195,000.00	\$ 211,307.53	\$ (16,307.53)	\$ 194,808.78	\$ 16,498.75
Task 6 - Post Rehabilitation Review & Reports	\$ 45,000.00	\$ 34,275.00	\$ 10,725.00	\$ 32,500.00	\$ 1,775.00
Task 7 - As-Builts	\$ 45,000.00	\$ 25,937.50	\$ 19,062.50	\$ 23,432.50	\$ 2,505.00
Task 8 - Project Administration	\$ 75,000.00	\$ 61,767.46	\$ 13,232.54	\$ 60,324.96	\$ 1,442.50
Total Basic Services	\$ 697,500.00	\$ 629,302.23	\$ 68,197.77	\$ 604,875.98	\$ 24,426.25

TOTAL DUE THIS INVOICE

\$ 24,426.25

Submitted by: Steven Siklich/Senior Project Manager

Chg: MID-SRF #0162

Date 9.30.16
 Chief Deputy BS
 Engineer(s) VA
 Manager(s) _____
 Coordinator(s) BD
 Finance Officer h/m

PA034248 80300

Staff 7.21.17
Board 3.13.17

Task 4 - Construction Administration

Professional Personnel

PROJECT ENGINEER	24.50	90.00	2,205.00
			<u>2,205.00</u>

Professional Personnel Subtotal

Task 4 - Construction Administration Subtotal 2,205.00

Task 5 - Construction Inspection

Professional Personnel

CONSTRUCTION INSPECTOR	79.00	85.00	6,715.00
CONSTRUCTION INSPECTOR	60.50	127.50	7,713.75
PROJECT ENGINEER	23.00	90.00	2,070.00

Professional Personnel Subtotal

16,498.75

Task 5 - Construction Inspection Subtotal 16,498.75

Task 6 - Post Rehabilitation Review & Reports

Professional Personnel

PROJECT ENGINEER	16.50	90.00	1,485.00
SENIOR PROJECT MANAGER	2.00	145.00	290.00

Professional Personnel Subtotal

1,775.00

Task 6 - Post Rehabilitation Review & Reports Subtotal 1,775.00

Task 7 - As-builts

Professional Personnel

PROJECT ENGINEER	23.00	90.00	2,070.00
SENIOR PROJECT MANAGER	3.00	145.00	435.00

Professional Personnel Subtotal

2,505.00

Task 7 - As-builts Subtotal 2,505.00

Task 8 - Project Administration

Professional Personnel

PROJECT ENGINEER	7.00	90.00	630.00
PARTNER	1.00	160.00	160.00
SENIOR PROJECT MANAGER	4.50	145.00	652.50

Professional Personnel Subtotal

1,442.50

Task 8 - Project Administration Subtotal 1,442.50

Invoice total 24,426.25

Invoice Supporting Detail

Task 4 - Construction Administration

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
<u>Labor</u>			
PROJECT ENGINEER			
Jonathan P. Bixby			
08/29/2016	8.00	90.00	720.00
09/13/2016	2.00	90.00	180.00
Subtotal	10.00		900.00
Michael T. Budzyn			
08/29/2016	4.50	90.00	405.00
09/07/2016	1.50	90.00	135.00
09/27/2016	3.50	90.00	315.00
09/28/2016	2.00	90.00	180.00
09/29/2016	3.00	90.00	270.00
Subtotal	14.50		1,305.00
Labor total	24.50		2,205.00

Task 4 - Construction Administration Subtotal 2,205.00

Task 4 - Construction Administration Summary

Type	Contract	Billed	%	Remaining	%
Labor	75,000.00	70,605.00	94	4,395.00	6
Expense					
Total	75,000.00	70,605.00	94	4,395.00	6

Task 5 - Construction Inspection

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
<u>Labor</u>			
CONSTRUCTION INSPECTOR			
Daniel K. Gillem			
09/19/2016	8.00	85.00	680.00
09/19/2016	5.00	127.50	637.49
09/20/2016	6.00	85.00	510.00
09/21/2016	8.00	85.00	680.00
09/21/2016	8.00	127.50	1,020.00
09/22/2016	8.00	85.00	680.00
09/22/2016	6.50	127.50	828.75
09/23/2016	8.00	85.00	680.00
09/23/2016	4.75	127.50	605.63
09/24/2016	10.00	127.50	1,275.00
09/24/2016	2.00	85.00	170.00
09/25/2016	4.75	127.50	605.63
09/26/2016	7.00	85.00	595.00

Invoice Supporting Detail

Task 5 - Construction Inspection

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

CONSTRUCTION INSPECTOR

Daniel K. Gillem

09/26/2016	7.00	127.50	892.50
09/27/2016	8.00	85.00	680.00
09/27/2016	4.50	127.50	573.75
09/28/2016	8.00	85.00	680.00
09/28/2016	4.00	127.50	510.00
09/29/2016	8.00	85.00	680.00
09/29/2016	4.00	127.50	510.00
09/30/2016	8.00	85.00	680.00
09/30/2016	2.00	127.50	255.00
Subtotal	139.50		14,428.75

PROJECT ENGINEER

Brent E. Kraft

09/13/2016	3.00	90.00	270.00
09/14/2016	3.00	90.00	270.00
09/14/2016	6.00	90.00	540.00
09/15/2016	3.00	90.00	270.00
Subtotal	15.00		1,350.00

Jonathan P. Bixby

09/12/2016	8.00	90.00	720.00
Subtotal	8.00		720.00
Labor total	162.50		16,498.75

Task 5 - Construction Inspection Subtotal 16,498.75

Task 5 - Construction Inspection Summary

Type	Contract	Billed	%	Remaining	%
Labor	195,000.00	211,307.52	108	-16,307.52	-8
Total	195,000.00	211,307.52	108	-16,307.52	-8

Task 6 - Post Rehabilitation Review & Reports

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

PROJECT ENGINEER

Jonathan P. Bixby

09/26/2016	7.00	90.00	630.00
Subtotal	7.00		630.00

Michael T. Budzyn

Invoice Supporting Detail

Task 6 - Post Rehabilitation Review & Reports

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

PROJECT ENGINEER

Michael T. Budzyn

09/26/2016	2.50	90.00	225.00
09/26/2016	0.50	90.00	45.00
09/27/2016	3.00	90.00	270.00
09/27/2016	0.50	90.00	45.00
09/29/2016	2.50	90.00	225.00
09/29/2016	0.50	90.00	45.00
Subtotal	9.50		855.00

SENIOR PROJECT MANAGER

Steven M. Siklich

09/26/2016	0.50	145.00	72.50
09/27/2016	1.00	145.00	145.00
09/29/2016	0.50	145.00	72.50
Subtotal	2.00		290.00
Labor total	18.50		1,775.00

Task 6 - Post Rehabilitation Review & Reports Subtotal 1,775.00

Task 6 - Post Rehabilitation Review & Reports Summary

Type	Contract	Billed	%	Remaining	%
Labor	45,000.00	34,275.00	76	10,725.00	24
Total	45,000.00	34,275.00	76	10,725.00	24

Task 7 - As-builts

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
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Labor

PROJECT ENGINEER

Jonathan P. Bixby

09/27/2016	6.25	90.00	562.50
09/28/2016	3.25	90.00	292.50
09/29/2016	7.00	90.00	630.00
09/30/2016	2.00	90.00	180.00
09/30/2016	2.00	90.00	180.00
Subtotal	20.50		1,845.00

Michael T. Budzyn

09/26/2016	2.50	90.00	225.00
Subtotal	2.50		225.00

Invoice Supporting Detail

Task 7 - As-builts

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

SENIOR PROJECT MANAGER
 Steven M. Siklich

09/26/2016	1.00	145.00	145.00
09/27/2016	0.50	145.00	72.50
09/28/2016	1.00	145.00	145.00
09/30/2016	0.50	145.00	72.50
Subtotal	3.00		435.00
Labor total	26.00		2,505.00

Task 7 - As-builts Subtotal 2,505.00

Task 7 - As-builts Summary

Type	Contract	Billed	%	Remaining	%
Labor	45,000.00	25,937.50	58	19,062.50	42
Total	45,000.00	25,937.50	58	19,062.50	42

Task 8 - Project Administration

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

PROJECT ENGINEER
 Brent E. Kraft

09/27/2016	0.50	90.00	45.00
09/27/2016	2.50	90.00	225.00
09/28/2016	1.00	90.00	90.00
09/29/2016	1.00	90.00	90.00
09/30/2016	0.50	90.00	45.00
09/27/2016	1.50	90.00	135.00
Subtotal	7.00		630.00

PARTNER

Paulin G. Modi

09/27/2016	1.00	160.00	160.00
Subtotal	1.00		160.00

SENIOR PROJECT MANAGER

Steven M. Siklich

09/26/2016	1.00	145.00	145.00
09/27/2016	1.50	145.00	217.50
09/28/2016	1.00	145.00	145.00
09/30/2016	1.00	145.00	145.00
Subtotal	4.50		652.50

Invoice Supporting Detail

Task 8 - Project Administration

Billing Cutoff: 09/30/2016

Date	Units	Rate	Amount
	Labor total	12.50	1,442.50

Task 8 - Project Administration Subtotal 1,442.50

Task 8 - Project Administration Summary

Type	Contract	Billed	%	Remaining	%
Labor	75,000.00	61,783.75	82	13,216.25	18
Expense		953.20		-953.20	
Consultant					
Total	75,000.00	62,736.95	84	12,263.05	16

Invoice Summary

Type	Contract	Billed	%	Remaining	%
Labor	697,500.00	607,636.52	87	89,863.48	13
Expense		1,010.70		-1,010.70	
Consultant		20,655.00		-20,655.00	
Total	697,500.00	629,302.22	90	68,197.78	10



Supplemental Documentation

To: Evans Bantios, P.E., MCPWO

Date: October 25, 2016

From: Steve Siklich, P.E.

Project: SRF 5624-01 MID Rehab

Project Number: 18214.02

MCPWO No: 09-0014.16.1

RE: SRF 5624-01 Supplemental Billing Documentation

Below is a summary of task information for the above-mentioned invoice submitted. Project details are provided for the billing time period only and may not reflect current status of each phase. More detail can be provided upon request.

WORK COMPLETED (Through September 30, 2016)

(Giffels Webster Invoice 112374)

Invoice No. 112374 (Dated 10-21-16)

Task 4 – Construction Administration

- Review of Davis-bacon wages on payrolls and preparation of Davis-bacon certification
- Prepare draft pay application #7
- Review change order #4 and prepare contract mod
- Review Lanzo's grouting submittal for manhole on 23 Mile Road
- Respond to resident complaints on 18 Mile Road

Task 5 – Construction Inspection

- Provide inspection services and oversight for work on 18 Mile Road; see IDRs for more info

Task 6 – Post Rehabilitation Review & Reports

- Continue review of pre & post video and reports submitted for sewer and manholes
- Review of IDR documentation versus reporting from contractor
- Coordinate and review CIPP test samples on 18 Mile Road
 - Identified 3 segments on 18 Mile with suspected delamination

Task 7 – As-Builts

- Continue to review and update of the following:
 - As-surveyed lengths
 - Record liner lengths per segment
 - Provide manhole rehabilitation as-built quantities

Task 8 – Project Administration

- Project coordination with Lanzo and Owner
- Conduct bi-weekly progress meetings and meeting minutes; 9-27-16

giffels **Memorandum** **webster**

To: Vince Astorino
Acting Chief Engineer - Wastewater Services

Date: October 27, 2016

From: Steve Siklich, PE
Senior Project Manager

Project Name: MID Lining – Macomb Element & Sterling Heights Arm Interceptor & MH Rehabilitation
OMCPWC No. 09-0014.16.1; DEQ SRF No. 5624-01; Giffels Webster Project No 18214.02

Subject: Notification - Request for Cost Adjustments to Professional Services

As you are already aware, Giffels Webster has been providing engineering services to assist the Macomb County Public Works Office (MCPWO) on contractual items related to the subject project. Our previous contract dated June 20, 2014 included a NTE budget of \$195,000 for construction inspection related tasks.

Since 2015, a number of delays occurred having impact on the schedule and costs of the project:

- The effective date of the construction Contract, as noted on the Notice to Proceed: **October 7, 2015**
- Original final completion date: **August 2, 2016 (300 days from effective date)**
- Preconstruction meeting date: **November 4, 2015**.
- Contractor's original first day of field work: **March 28, 2016**
- Final completion date following Time Extension 1: **October 1, 2016 (360 days from effective date)**
 - Traffic control setup along 23 Mile Road at the MCDOR's request
 - Redesign of bypass system on 23 Mile Road
 - Increased capacity
 - Additional flow from Macomb Township, not noted on record drawings
 - Removal and replacement of CIPP liner resulting from May 11, 2016 sewage spill
 - Spill arose related to road ramp usage
 - Investigation of delamination of liner along 23 Mile Road
 - An additional redesign of bypass system
 - Locating and installing appropriately sized road ramps
 - Rerouting bypass pipe under 23 Mile Road
 - Training crew to operate a portable wet-out for work along 18 Mile Road
- Final completion date following Time Extension 2: **October 29, 2016 (388 days from effective date)**
 - Redesign of 18 Mile Road traffic control plan
 - Accommodate newly started road construction work
 - Input from Clinton Township
- Current request of time extension 3 final completion date: **December 23, 2016 (455 days from effective date, 155 days over the original final completion date)**
 - Additional six week delay due to removal and replacement of failed liner throughout 18 Mile Road

giffels webster

28 W. Adams, Suite 1200
Detroit, MI 48226
(313) 962-4442

FEB 19 2017
MH

MACOMB COUNTY DEPT OF PUBLIC WORKS
21777 DUNHAM ROAD
CLINTON TWP, MI 48036

Invoice No.: 112961
Date: 01/16/2017
Project No.: 1821402

**Project: MACOMB ELEMENT AND STERLING HEIGHTS ARM
INTERCEPTOR & MANHOLE REHABILITATION**

For professional services through December 31, 2016

SRF PROJECT NO 5624-01

Description	Contract Amount	Percent Complete	Total Complete	Previously Invoiced	Due This Invoice
Task 1 - Survey & Geotechnical Analysis	45,000.00	83 %	37,428.30	37,428.30	0.00
Task 2 - Engineering Design & Contract Documents	160,000.00	100 %	159,796.00	159,796.00	0.00
Task 3 - Bidding Administration	31,500.00	99 %	31,126.25	31,126.25	0.00
Task 4 - Construction Administration	80,000.00	99 %	78,907.50	77,962.50	945.00
Task 5 - Construction Inspection	296,000.00	99 %	293,557.52	283,846.27	9,711.25
Task 6 - Post Rehabilitation Review & Reports	45,000.00	85 %	38,425.00	37,560.00	865.00
Task 7 - As-builts	45,000.00	62 %	27,780.01	26,842.51	937.50
Task 8 - Project Administration	75,000.00	97 %	72,976.95	65,781.95	7,195.00
Total	777,500.00		739,997.53	720,343.78	19,653.75



Submitted By: Steven Siklich/Senior Project Manager

Chg: MID-SRF #0162

2.13.17

City Engineer	AS
City Manager	UA
City Clerk	
City Auditor	BD
City Finance Officer	BM

PA 035013 80300

Staff 2.21.17
Board 3-13-17

Task 4 - Construction Administration

Professional Personnel

PROJECT ENGINEER	10.50	90.00	945.00
			<u>945.00</u>
Professional Personnel Subtotal			<u>945.00</u>

Task 4 - Construction Administration Subtotal 945.00

Task 5 - Construction Inspection

Professional Personnel

CONSTRUCTION INSPECTOR	85.75	85.00	7,288.75
CONSTRUCTION INSPECTOR	19.00	127.50	2,422.50
			<u>9,711.25</u>
Professional Personnel Subtotal			<u>9,711.25</u>

Task 5 - Construction Inspection Subtotal 9,711.25

Task 6 - Post Rehabilitation Review & Reports

Professional Personnel

PROJECT ENGINEER	8.00	90.00	720.00
SENIOR PROJECT MANAGER	1.00	145.00	145.00
			<u>865.00</u>
Professional Personnel Subtotal			<u>865.00</u>

Task 6 - Post Rehabilitation Review & Reports Subtotal 865.00

Task 7 - As-builts

Professional Personnel

PROJECT ENGINEER	8.00	90.00	720.00
SENIOR PROJECT MANAGER	1.50	145.00	217.50
			<u>937.50</u>
Professional Personnel Subtotal			<u>937.50</u>

Task 7 - As-builts Subtotal 937.50

Task 8 - Project Administration

Professional Personnel

PROJECT ENGINEER	33.50	90.00	3,015.00
PARTNER	8.00	160.00	1,280.00
SENIOR PROJECT MANAGER	20.00	145.00	2,900.00
			<u>7,195.00</u>
Professional Personnel Subtotal			<u>7,195.00</u>

Task 8 - Project Administration Subtotal 7,195.00

Invoice total 19,653.75

Invoice Supporting Detail

Task 4 - Construction Administration

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/05/2016	1.50	90.00	135.00
Subtotal	1.50		135.00
12/05/2016	2.50	90.00	225.00
12/06/2016	2.50	90.00	225.00
12/19/2016	1.50	90.00	135.00
12/20/2016	2.00	90.00	180.00
12/21/2016	0.50	90.00	45.00
Subtotal	9.00		810.00
Labor total	10.50		945.00

Labor

PROJECT ENGINEER

Brent E. Kraft

Michael T. Budzyn

Task 4 - Construction Administration Subtotal 945.00

Task 4 - Construction Administration Summary

Type	Contract	Billed	%	Remaining	%
Labor	80,000.00	78,907.50	99	1,092.50	1
Expense					
Total	80,000.00	78,907.50	99	1,092.50	1

Task 5 - Construction Inspection

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/05/2016	4.00	85.00	340.00
12/06/2016	8.00	85.00	680.00
12/06/2016	2.00	127.50	254.99
12/07/2016	8.00	85.00	680.00
12/07/2016	4.25	127.50	541.88
12/08/2016	8.00	85.00	680.00
12/08/2016	2.50	127.50	318.75
12/09/2016	8.00	85.00	680.00
12/09/2016	3.25	127.50	414.38
12/10/2016	7.00	127.50	892.50
12/12/2016	4.00	85.00	340.00
12/13/2016	5.00	85.00	425.00
12/14/2016	3.00	85.00	255.00
12/15/2016	4.50	85.00	382.50

Labor

CONSTRUCTION INSPECTOR

Daniel K. Gillem

Invoice Supporting Detail

Task 5 - Construction Inspection

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/19/2016	5.00	85.00	425.00
12/20/2016	8.00	85.00	680.00
12/21/2016	7.50	85.00	637.50
12/22/2016	7.50	85.00	637.50
12/27/2016	5.25	85.00	446.25
Subtotal	104.75		9,711.25
Labor total	104.75		9,711.25

Labor

CONSTRUCTION INSPECTOR
 Daniel K. Gillem

Task 5 - Construction Inspection Subtotal 9,711.25

Task 5 - Construction Inspection Summary

Type	Contract	Billed	%	Remaining	%
Labor	296,000.00	293,557.52	99	2,442.48	1
Total	296,000.00	293,557.52	99	2,442.48	1

Task 6 - Post Rehabilitation Review & Reports

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/05/2016	2.00	90.00	180.00
12/06/2016	2.50	90.00	225.00
12/09/2016	1.00	90.00	90.00
12/12/2016	1.00	90.00	90.00
12/13/2016	1.50	90.00	135.00
Subtotal	8.00		720.00
12/08/2016	0.50	145.00	72.50
12/09/2016	0.50	145.00	72.50
Subtotal	1.00		145.00
Labor total	9.00		865.00

Labor

PROJECT ENGINEER
 Michael T. Budzyn

SENIOR PROJECT MANAGER
 Steven M. Siklich

Task 6 - Post Rehabilitation Review & Reports Subtotal 865.00

Invoice Supporting Detail

Task 6 - Post Rehabilitation Review & Reports Summary

Type	Contract	Billed	%	Remaining	%
Labor	45,000.00	38,425.00	85	6,575.00	15
Total	45,000.00	38,425.00	85	6,575.00	15

Task 7 - As-builts

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
------	-------	------	--------

Labor

PROJECT ENGINEER

Jonathan P. Bixby

12/13/2016	4.00	90.00	360.00
12/14/2016	1.00	90.00	90.00
12/20/2016	0.50	90.00	45.00
12/21/2016	0.50	90.00	45.00
12/22/2016	1.00	90.00	90.00
Subtotal	7.00		630.00

Michael T. Budzyn

12/07/2016	0.50	90.00	45.00
12/09/2016	0.50	90.00	45.00
Subtotal	1.00		90.00

SENIOR PROJECT MANAGER

Steven M. Siklich

12/16/2016	0.50	145.00	72.50
12/19/2016	0.50	145.00	72.50
12/22/2016	0.50	145.00	72.50
Subtotal	1.50		217.50
Labor total	9.50		937.50

Task 7 - As-builts Subtotal 937.50

Task 7 - As-builts Summary

Type	Contract	Billed	%	Remaining	%
Labor	45,000.00	27,780.01	62	17,219.99	38
Total	45,000.00	27,780.01	62	17,219.99	38

Task 8 - Project Administration

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
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Labor

PROJECT ENGINEER

Brent E. Kraft

Invoice Supporting Detail

Task 8 - Project Administration

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
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Labor

PROJECT ENGINEER

Brent E. Kraft

12/05/2016	2.50	90.00	225.00
12/06/2016	2.00	90.00	180.00
12/07/2016	2.00	90.00	180.00
12/09/2016	2.00	90.00	180.00
12/12/2016	2.00	90.00	180.00
12/13/2016	2.00	90.00	180.00
12/14/2016	1.00	90.00	90.00
12/15/2016	1.00	90.00	90.00
12/19/2016	1.00	90.00	90.00
12/20/2016	2.00	90.00	180.00
12/21/2016	2.00	90.00	180.00
12/22/2016	1.50	90.00	135.00
Subtotal	21.00		1,890.00

Jonathan P. Bixby

12/05/2016	7.00	90.00	630.00
Subtotal	7.00		630.00

Michael T. Budzyn

12/12/2016	4.00	90.00	360.00
12/15/2016	1.50	90.00	135.00
Subtotal	5.50		495.00

PARTNER

Paulin G. Modi

12/05/2016	1.00	160.00	160.00
12/07/2016	1.00	160.00	160.00
12/08/2016	2.00	160.00	320.00
12/09/2016	2.00	160.00	320.00
12/12/2016	1.00	160.00	160.00
12/15/2016	1.00	160.00	160.00
Subtotal	8.00		1,280.00

SENIOR PROJECT MANAGER

Steven M. Siklich

12/05/2016	2.00	145.00	290.00
12/06/2016	2.00	145.00	290.00
12/07/2016	1.50	145.00	217.50
12/08/2016	2.00	145.00	290.00
12/09/2016	1.50	145.00	217.50
12/12/2016	3.00	145.00	435.00
12/13/2016	2.00	145.00	290.00
12/14/2016	1.00	145.00	145.00
12/15/2016	1.00	145.00	145.00

Invoice Supporting Detail

Task 8 - Project Administration

Billing Cutoff: 12/31/2016

Date	Units	Rate	Amount
12/16/2016	0.50	145.00	72.50
12/19/2016	1.00	145.00	145.00
12/20/2016	0.50	145.00	72.50
12/21/2016	0.50	145.00	72.50
12/22/2016	0.50	145.00	72.50
12/23/2016	0.50	145.00	72.50
12/27/2016	0.50	145.00	72.50
Subtotal	20.00		2,900.00
Labor total	61.50		7,195.00

Labor

SENIOR PROJECT MANAGER

Steven M. Siklich

Task 8 - Project Administration Subtotal 7,195.00

Task 8 - Project Administration Summary

Type	Contract	Billed	%	Remaining	%
Labor	75,000.00	72,023.75	96	2,976.25	4
Expense		953.20		-953.20	
Total	75,000.00	72,976.95	97	2,023.05	3

Invoice Summary

Type	Contract	Billed	%	Remaining	%
Labor	777,500.00	715,024.03	92	62,475.97	8
Expense		1,010.70		-1,010.70	
Consultant		23,962.80		-23,962.80	
Total	777,500.00	739,997.53	95	37,502.47	5



Supplemental Documentation

To: Evans Bantios, P.E., MCPWO

Date: January 31, 2017

From: Steve Siklich, P.E.

Project: SRF 5624-01 MID Rehab

Project Number: 18214.02
MCPWO No: 09-0014.16.1

RE: SRF 5624-01 Supplemental Billing Documentation

Below is a summary of task information for the above-mentioned invoice submitted. Project details are provided for the billing time period only and may not reflect current status of each phase. More detail can be provided upon request.

WORK COMPLETED (Through December 31, 2016) (Giffels Webster Invoice 112961)

Invoice No. 112961 (Dated 1-16-17)

Task 4 – Construction Administration

- Review of Davis-bacon wages on payrolls and preparation of Davis-bacon certification
- Prepare final pay application #8
- Prepare and review draft pay app #9
- Respond to resident complaints on 22 Mile & Garfield
 - Address restoration concerns on farmer's property
 - Review options for plugging abandoner lead to farmer's field on Garfield Interceptor

Task 5 – Construction Inspection

- Provide inspection services and oversight for work on 22 Mile Road & Garfield; see IDRs for more info
- Provide oversight on manhole grouting on 18 Mile Road

Task 6 – Post Rehabilitation Review & Reports

- Provide database update
- Review of IDR documentation versus reporting from contractor

Task 7 – As-Builts

- Perform QA/QC of as-built information inputs on plans and in database

Task 8 – Project Administration

- Project coordination with Lanzo and Owner due to sinkhole on 15 Mile Road
- Conduct bi-weekly progress meetings and meeting minutes; 12-05-16
- Provide contract administration oversight and daily updates with field staff while work is being performed.

SRF
5624-01

OFFICE OF THE MACOMB COUNTY PUBLIC WORKS COMMISSIONER
CANDICE S. MILLER

RECEIVED
FEB 28 2017
MH

CERTIFICATE OF PAYMENT DUE


Construction Pay Application No. 10

Owner: Intra-County Drainage Board for the Macomb Interceptor Drain Drainage District
21777 Dunham Rd., Clinton Twp., MI 48036
Contractor: Lanzo Lining Services, Inc.
28137 Groesbeck Highway
Roseville, MI 48066
Project: Macomb Element and Sterling Heights Arm Interceptor and Manhole Rehabilitation
OMCPWC No. 09-0014.16.1

Date: 02/08/17 Total Contract Amount Less Unused Allowances: \$2,203,890.00
Contract Allowances Unused to Date: \$ -
Total Contract Amount (with Allowances): \$2,203,890.00

Previous Payment:	Amount:	Approved Change Orders:	Amount:
Pay App #9	\$212,268.68	3	\$ 113,009.86

Adjusted Contract Amount (Total Contract Amount + Approved Change Orders):	\$2,316,899.86
Total Value of Work Completed (Line 4, AIA Document G702):	\$2,067,900.15
Retained, Max (Line 5, AIA Document G702):	\$ 57,922.49 ✓
Less Previous Payments (Line 7, AIA Document G702):	\$1,885,399.26
Value of this Payment (Line 8, AIA Document G702):	\$ 124,578.40 ✓ pay



Prepared by Engineer: Steve Siklich, PE

2-15-17
Date:

Senior Project Manager, Giffels Webster



Owner Approval: Thomas R. Stockel

2-27-17
Date: Chy MID-SRF #0162

Construction Engineer OMCPWC

NW

Owner Authorization: Candice Miller

3-6-17 Date 2-28-17
Chief Deputy

TRS

Macomb County Public Works Commissioner

Date: TRS, VA
Engineer(s)



Contractor's Acceptance:

2-8-17 Date: BD
Coordinator(s)

R. George Donnelly, Lanzo Lining Services, Inc

Date: hkm
Finance Officer

Stat 3-7-17

PA-035174
22020 \$ 57,922.50
70100 \$ 66,55.90



Construction Pay Estimate Report

2/15/2017 10:28 AM

FieldManager 5.2a

Contract: _18214.02, ME & SHA Interceptor and Manhole Rehabilitation

Estimate Date	Estimate No.	Entered By	Estimate Type	Electronic File Created	All Contract Work Completed	Construction Started Date
01/31/2017	10	Brent E Kraft	Semi-Monthly	No		2/8/2016
Prime Contractor Lanzo Lining Services, Inc.-Florida				Managing Office Giffels Webster		

Item Usage Summary

Item Description	Item Code	Prop. Line	Project	Category	Project Line No.	Item Type	Mod. No.	Quantity	Dollar Amount
_ Bypass Pumping (As-Needed), 48"	8037001	0012	18214.02	A	0060	00	000	329.950	\$22,436.60
_ San Swr, 48", Final TV Investigation and Log	8037001	0010	18214.02	A	0050	00	000	329.950	\$1,319.80
_ San Swr, 48", Liner, 3'-CIPP-PR	7187050	0008	18214.02	A	0040	00	000	1.000	\$30,600.00
_ San Swr, 48", Prep, Clean, and Televis	8037001	0003	18214.02	A	0015	00	000	329.950	\$3,299.50
Traffic Control	_18448.28	0029	18214.02	D	0145	00	000	0.500	\$9,000.00
Total Estimated Item Payment:								<u>\$66,655.90</u>	

Time Charges

Site	Site Description	Site Method	Days Charged	Liq. Damages
00	Overall Contract Site	Completion Date		\$96,100
Total Liquidated Damages:				<u>\$96,100</u>

Pre-Voucher Summary

Project	Voucher No.	Item Payment	Stockpile Adjustment	Dollar Amount
18214.02, ME & SHA Interceptor and Manhole Rehabilitation	0010	\$66,655.90	\$0.00	\$66,655.90
Voucher Total:				<u>\$66,655.90</u>

Summary

Current Voucher Total:	\$66,655.90	Earnings to date:	\$2,067,900.15
-Current Retainage:	(\$57,922.50)	- Retainage to date:	\$57,922.49
-Current Liquidated Damages:	\$96,100.00	- Liquidated Damages to date:	\$147,250.00
-Current Adjustments:	(\$96,100.00)	- Adjustments to date:	(\$147,250.00)
Total Estimated Payment:	\$124,578.40	Net Earnings to date:	\$2,009,977.66
		- Payments to date:	\$1,885,399.26
		Net Earnings this period:	\$124,578.40

Estimate Certification

I certify the items included on this report constitute my estimate of work completed and due the contractor as of the date of this document. I also certify the prime contractor is meeting all requirements for minority percentages and the payrolls are current.

Steve Siklich, PE (Project Engineer) and/or

(Date)

Brent Kraft (Construction Engineer)

(Date)



Construction Pay Estimate Amount Balance Report

Estimate: 10

2/15/2017 10:28 AM
FieldManager 5.2a

Giffels Webster

Contract: _ 18214.02, ME & SHA Interceptor and Manhole Rehabilitation

Item Description	Item Code	Prop. Line	Project	Category	Authorized Quantity	Quantity This Estimate	Qty. Paid To Date	Total Qty. Placed	% Cpt	Unit Price	Dollar Amt. Paid To Date
_ Additional Traffic Control_CO #3	7057051	0065	18214.02	D	1,000		1,000	1,000	100%	9,186.15000	\$9,186.15
_ Bypass Pumping (As-Needed), 27"	8037001	0011	18214.02	A	4,870,000		4,728,250	4,728,250	97%	31.00000	\$146,575.75
_ Bypass Pumping (As-Needed), 48"	8037001	0012	18214.02	A	2,750,000	329,950	2,582,710	2,582,710	94%	68.00000	\$175,624.28
_ Claim #1	8507051	0050	18214.02	D	1,000		1,000	1,000	100%	19,869.74000	\$19,869.74
_ Claim #2	8237050	0055	18214.02	A	1,000		1,000	1,000	100%	56,498.47000	\$56,498.47
_ Deconstruct MH, Chimney, Remove and Replace	2087050	0016	18214.02	B	6,000		5,000	5,000	83%	1,925.00000	\$9,625.00
_ Deconstruct MH, Cone, Remove and Replace	2087050	0017	18214.02	B	6,000		5,000	5,000	83%	3,080.00000	\$15,400.00
_ Deconstruct MH, F&C, Remove and Replace	8167050	0015	18214.02	B	6,000		5,000	5,000	83%	2,255.00000	\$11,275.00
_ MH 28-30, Chamber, Liner, Epoxy	8157051	0045	18214.02	C	1,000		1,000	1,000	100%	5,125.00000	\$5,125.00
_ MH 28-30A, Chamber, Construct Full- Height Bench/Channel	8507051	0040	18214.02	C	1,000		1,000	1,000	100%	4,280.00000	\$4,280.00
_ MH 28-30A, Chamber, Liner, Epoxy	8507051	0035	18214.02	C	1,000		1,000	1,000	100%	5,126.00000	\$5,126.00
_ MH, 48" Dia, Prep for Liner	8037001	0024	18214.02	C	153,500		149,000	149,000	97%	7.00000	\$1,043.00
_ MH, 60" Dia, Prep for Liner	8037001	0025	18214.02	C	85,000		0,000	0,000		7.00000	
_ MH, Chimney, 24" Dia, External Seal	8117050	0019	18214.02	B	6,000		6,000	7,000	117%	430.00000	\$2,580.00
Quantity Withheld: 1,000											
_ MH, Chimney, 24" Dia, Liner, Epoxy	8037001	0020	18214.02	C	6,000		6,000	8,000	133%	165.00000	\$990.00
Quantity Withheld: 2,000											
_ MH, Precast, 48" Dia, Liner, Cementitious, Full Depth - Field Order #2	8127001	0060	18214.02	C	46,000		46,000	46,000	100%	165.00000	\$7,590.00
_ MH, Precast, 48" Dia, Liner, Epoxy, Full Depth	8037001	0026	18214.02	C	97,500		93,000	93,000	95%	220.00000	\$20,460.00

Contract: _ 18214.02 Estimate: 10



Construction Pay Estimate Amount Balance Report

Estimate: 10

2/15/2017 10:28 AM
FieldManager 5.2a

Cliffels Webster

Item Description	Item Code	Prop. Line	Project	Category	Authorized Quantity	Quantity This Estimate	Qty. Paid To Date	Total Qty. Placed	% Cpt	Unit Price	Dollar Amt. Paid To Date
- MH, Precast, 48" Dia, Liner, Epoxy, Partial Depth	8037001	0027	18214.02	C	56.000		17.000	17.000	30%	220.00000	\$3,740.00
- MH, Precast, 60" Dia, Liner, Epoxy, Partial Depth	8037001	0028	18214.02	C	85.000		0.000	0.000		275.00000	
- MH, Wall/Joint, Precast, Point/Patch/Seal	7187050	0021	18214.02	C	6.000		5.000	69.000	1150%	220.00000	\$1,100.00
Quantity Withheld: 64.000											
- Remove and Replace Asphalt Pavement	5017011	0013	18214.02	B	100.000		0.000	0.000		242.00000	
- Remove and Replace Concrete Pavement	6027011	0014	18214.02	B	150.000		70.120	70.120	47%	275.00000	\$19,283.00
- Remove Platform, Concrete	2087050	0018	18214.02	B	4.000		2.000	2.000	50%	4,400.00000	\$8,800.00
- Remove Platform, Concrete	7187050	0022	18214.02	C	1.000		1.000	1.000	100%	4,400.00000	\$4,400.00
- Remove Platform, Metal	7187050	0023	18214.02	C	4.000		4.000	4.000	100%	4,400.00000	\$17,600.00
- San Swr, 27" Dia, Test-and-Seal Joints w Injectible Grout	8207050	0004	18214.02	A	3.000		2.000	2.000	67%	200.00000	\$400.00
- San Swr, 27", Final TV Investigation and Log	8037001	0009	18214.02	A	4,870.000		4,728.250	4,728.250	97%	4.00000	\$18,913.00
- San Swr, 27", Liner, CIPP-F	8037001	0006	18214.02	A	4,870.000		4,728.250	4,728.250	97%	142.00000	\$671,411.50
- San Swr, 27", Prep, Clean, and Televis	2057001	0002	18214.02	A	4,870.000		4,789.240	4,789.240	98%	8.00000	\$38,313.92
- San Swr, 48" Dia, Large Dia Pipe Joint Sealing	8117050	0005	18214.02	A	282.000		0.000	0.000		200.00000	
- San Swr, 48", Final TV Investigation and Log	8037001	0010	18214.02	A	2,750.000		2,489.690	2,489.690	91%	4.00000	\$9,958.76
- San Swr, 48", Liner, 3-CIPP-PR	7187050	0008	18214.02	A	2.000		1.000	1.000	50%	30,600.00000	\$30,600.00
- San Swr, 48", Liner, CIPP-F	8037001	0007	18214.02	A	2,230.000		2,159.740	2,159.740	97%	312.00000	\$673,838.88
- San Swr, 48", Prep, Clean, and Televis	8037001	0003	18214.02	A	2,750.000		329.950	2,604.270	95%	10.00000	\$26,042.70
- Mobilization (3% Max)	_1507001	0001	18214.02	A	1.000		1.000	1.000	100%	21,500.00000	\$21,500.00
- Restoration (As-Needed)	_18090.0	0030	18214.02	D	1.000		0.750	0.750	75%	17,000.00000	\$12,750.00

Contract: _ 18214.02

Estimate: 10

Page 2 of 3



Construction Pay Estimate Amount Balance Report

Estimate: 10

2/15/2017 10:28 AM
FieldManager 5.2a

Giffels Webster

Item Description	Item Code	Prop. Line	Project	Category	Authorized Quantity	Quantity This Estimate	Qty. Paid To Date	Total Qty. Placed	% Cpt	Unit Price	Dollar Amt. Paid To Date
Traffic Control	_18448.2	0029	18214.02	D	1.000	0.500	1.000	1.000	100%	18,000.00000	\$18,000.00
Percentage of Contract Completed(curr): 89% (total paid to date / total of all authorized work)											
Total Amount Paid This Estimate: \$66,655.90 Total Amount Paid To Date: \$2,067,900.15											

Contract: _18214.02

Estimate: 10

Page 3 of 3



Project Number: 5624-01

Period From: 12/01/16 To: 1/31/16

Davis-Bacon Act Compliance CERTIFICATION

I certify to the best of my knowledge and belief that the above referenced project:

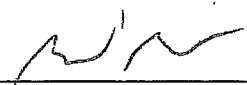
Complies with Davis-Bacon and Related Acts and U.S. Environmental Protection Agency policy memo dated March 2, 2012, and the Fiscal Year 2012 Consolidated Appropriations Act (P.L. 112-74) and that all laborers and mechanics employed by contractors and subcontractors during the above referenced period were paid wages at rates not less than those listed on the prevailing wage rate contained in the contract documents and that all applicable provisions of the Davis-Bacon and Related Acts have been met.

Intra-County Drainage Board for the
Macomb Interceptor Drain Drainage District

2/15/17

Name of Loan Recipient

Date



Signature of Authorized Representative

Brian Baker - Chief Deputy Macomb County Public Works Commissioner
Print Name and Title of Authorized Representative

**Michigan Finance Authority # 2000
State Revolving Funds**

MLT
Chg: MIDD - (SER 5487-01)

Mr. Ted B. Wahby, Treasurer
County of Macomb
1 S Main St, 2nd Floor
Mount Clemens, MI 48043
Phone: (586) 469-5190 Ext:
Email: treasurer@macombgov.org Fax: (586) 469-6770

2-21-17
Onto Deputy *AB*
Engineer(s)
Manager(s)
Coordinator(s) *RD*
Finance Officer *AKM*

INVOICE

PA 035091

Due Date	Project Number	ID	Loan Commitment	Principal	Interest	Total
03/27/2017	5186-01/Final	CW	\$20,670,000.00	\$0.00	\$91,562.50	\$91,562.50
03/27/2017	5186-02/Final	CW	\$13,630,000.00	\$0.00	\$60,375.00	\$60,375.00
03/27/2017	5186-03/Final	CW	\$2,640,000.00	\$0.00	\$11,687.50	\$11,687.50
03/27/2017	5186-04/Final	CW	\$5,550,000.00	\$0.00	\$24,562.50	\$24,562.50
03/27/2017	5186-05/Final	CW	\$975,000.00	\$0.00	\$5,000.00	\$5,000.00
03/27/2017	5487-01	CW	\$8,565,000.00	\$350,000.00	\$83,431.23	\$433,431.23
03/27/2017	5540-01/Final	CW	\$2,249,999.00	\$0.00	\$19,649.99	\$19,649.99
03/27/2017	5605-01	CW	\$3,145,000.00	\$0.00	\$13,615.50	\$13,615.50
				99100	99500	

Below please find three methods of payment to the Michigan Finance Authority

Preferred Method of Payment

Payment via Federal Wire Transfer for ALL Loan Types:
WIRE transfers MUST be initiated by 10:00 a.m. on **03/27/2017** and sent to:

The Bank of New York Mellon, N.A.
ABA: 021-000-018
A/C: 3919348400
Reference: 1483-MFA

Payment via ACH Transfer for ALL Loan Types:
To allow for processing time ACH transfers MUST be initiated by **03/23/2017** and sent to:

The Bank of New York Mellon, N.A.
ABA: 021-000-018
A/C: 8900626003
Reference: 1483-MIFA

Payment By Check For ALL Loan Types
To allow for processing time checks must be **RECEIVED by 03/20/2017**.

For proper credit please include a copy of this invoice and note the reference: 1483-MIFA on the check. Please mail your payment to: The Bank of New York Mellon, N.A.
ATTN: Pooled Finance Unit - Robert Ferencchi
10161 Centurion Parkway N.
Jacksonville, FL 32256

Please note, the Reference information must be included on the wire transfer.

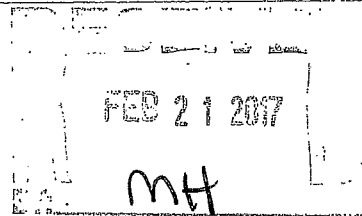
Staff 3-7-17
1.7.17

SHUTOFF NOTICE

17-076

Contact Information

Gas Leak or Gas Emergency 800.947.5000
 Customer Service or Power Outage 855.DTE.4BIZ (855.383.4249)
 Hearing-Impaired TDD Line 800.888.6886 (Mon-Fri 8am-5pm)
 Web Site dteenergy.com



Summary of Charges

Account Number 6978 016 0001 9

Account Balance as of Dec 19, 2016 742.56
 Payment Received 0.00

Balance Prior to Current Charges 742.56

Your account remains past due. Please pay \$742.56 before February 6, 2017 to avoid SHUTOFF.

Current Charges

For Service at 18275 E 15 Mile Rd, Clinton Twp, MI 37.32
 For Service at 45010 Oak Hill Blvd, Shelby Township, MI 37.84
 For Service at 16585 21 Mile Rd, Macomb, MI 13.83
 For Service at 38201 Garfield Rd, Clinton Twp, MI 29.40
 For Service at 34900 Garfield, Clinton Twp, MI 38.35
 For Service at 25098 Henry B Joy, Harrison Twp, MI 37.59
 For Service at 38627 Reimold, Harrison Twp, MI 49.96
 For Service at 35362 Union Lake Rd, Harison Twp, MI 30.57
 For Service at 16650 21 Mile, Macomb Twp, MI 14.85
 For Service at 40440 Utica, Sterling Heights, MI 14.59
 For Service at 11590 E 15 Mile Rd, Sterling Heights, MI 15.49
 For Service at 11637 Sorrento, Sterling Heights, MI 25.97
 For Service at 12555 14 Mile, Sterling Heights, MI 34.25
 For Service at 41024 Hayes Rd, Clinton Township, MI 48.58
 For Service at 44400 Utica, Utica, MI 45.87
 For Service at 35115 Union Lake Rd, Rear, Clinton Twp, MI 41.80
 Other Charges and Credits 14.04

Total Current Charges 530.30

Account Balance as of January 23, 2017 \$1,272.86

Your current charges are due on February 14, 2017. A 2% late payment charge will be applied if paid after the due date.

Important Information

1/4/17 ck 4029
 mailed 1-18-17
 received 1-25-17



4127
 PAID FEB 23 2017

530.30 *pay*

ers



247
 1/27/17

17-045

Contact Information

Gas Leak or Gas Emergency 800.947.5000
Customer Service or Power Outage 855.DTE.4BIZ (855.383.4249)
Hearing-Impaired TDD Line 800.888.6886 (Mon-Fri 8am-5pm)
Web Site dteenergy.com

Summary of Charges

Account Number 6965 042 0001 0

Account Balance as of Dec 02, 2016	1,218.76
Payment Received Dec 23, 2016 Thank You!	- 1,218.76
Balance Prior to Current Charges	0.00
Current Charges	
DTE Electric Company Business Electric Service	1,160.77
Total Current Charges	1,160.77
Account Balance as of January 05, 2017	\$1,160.77

pd 26-17
CR# 4084

Your current charges are due on January 27, 2017. A 2% late payment charge will be applied if paid after the due date.

Important Information

Changes to the Energy Optimization Surcharge recently approved by the Michigan Public Service Commission are effective beginning with the January 2017 billing cycle.

Beginning with the January 2017 billing cycle, the Power Supply Cost Recovery (PSCR) factor will increase from a credit of (0.02) cents per kWh to a charge of 0.214 cents per kWh. The PSCR factor allows DTE Energy to recover its actual fuel and purchased power expense and is billed to customers without any profit or markup.

Let DTE help your business manage its energy use. Learn about our online tools and enter to win an energy efficiency makeover for your business at dteenergy.com/businesscontest.

DATE: 2.6.17

CHIEF DEPUTY: AB

ENGINEER(S): VA

MANAGER(S): _____

COORDINATOR(S): BD

FINANCIAL MANAGER: AM

CHARGE: MIDD #3000
CH-S-3

PA0349 22 192300

Staff 2-21-17
Board 3-13-17



**Martin Control
Services**

FEB 19 2017

MI

Invoice No. 9996

Date: 02/03/2017

23905 Freeway Park Dr.
Farmington Hills, MI 48335
248-476-7660

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

Project: 161027 Macomb MCWDD Repair

Contact: Vince Astorino

P.O.# 09-0014.45 T-IA

Due Date: 03/05/2017

Description	Qty	Rate	Amount
MCWDD Task IA, Jan 2017			
Update Level Tracking Spreadsheet for weekly report &	4.000	175.00	700.00
SY-S-2 Temp Dec. 2016	1.000	850.00	850.00
CT-S-1 Level Dec. 2016	1.000	578.00	578.00

#3000
Chg: MIDDS - Meters

Date 2.9.17
 Chief Deputy AB
 Engineer(s) VA
 Manager(s) _____
 Coordinator(s) BD
 Finance Officer BM

PA 034974 70100

Non-Taxable Amount:	2,128.00
Taxable Amount:	0.00
Sales Tax:	0.00
Amount Due	2,128.00

Thank you for your prompt payment!

Staff 2.2.17

Martin Control Services, Inc.
 23905 Freeway Park Drive
 Farmington Hills MI 48335
 248 476-7660

Unit Billing

MCS Job: 161024
 Application: 3
 Period: 02/08/2017

FEB 09 2017
 MLU

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

Job Location: 161024-Macomb MCWDD PM
 21777 Dunham Road
 Clinton Twp MI 48036

Attention: Vince Astorino

Application For Payment On Contract

Contract Sum to Date	674,280.00
Total Complete to Date	52,280.00
Total Retained	0.00
Total Earned Less Retained	52,280.00
Less Previous Billings	38,600.00
Current Payment Due	13,680.00
Balance on Contract	622,000.00

Contractor's Certification of Work

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.

Contractor: *[Signature]*

Date: 2-7-17

Contractor	2-9-17
Contract No.	
Engineer (s)	<i>[Signature]</i>
Manager (s)	
Coordinator (s)	BD
Finance Officer	<i>[Signature]</i>

Qty: #3000
 MIDD-Meter
 09-0014.19-3

PA 034976
 70100

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: Martin Control Services, Inc.

Thank you for your prompt payment.

Staff 2.21.17
 Board 3.13.17

SUBMITTED BY: Martin Control Services, Inc.
 23905 Freeway Park Drive
 Farmington Hills MI 48335

PROJECT: 161024 Macomb MCWDD PM
 21777 Dunham Road
 Clinton Twp MI 48036

MCS Job: 161024
 Application: 3
 Period: 02/08/2017

Unit Billing

Schedule of Work Completed

Bid Ite	Description	Price/Unit	Contract Plus Changes	Previous Units Billed	Current Units		Total Units Complete	Previous Value		Current Value		Total Value	
					Complete	Complete		Value	Value	Value	Value		
CH-S-1		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
CH-S-2		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
CH-S-3		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
CT-S-1		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
CT-S-2		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
CT-S-3		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
CT-S-4		570.00	20,520.00	1.00	1.00	1.00	1.00	570.00	570.00	570.00	570.00	570.00	
CT-S-5		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
CT-S-6		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
FR-S-1		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
FR-S-2		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
HR-S-1		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
HR-S-2		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
HR-S-3		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
LX-S-1		190.00	6,840.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
LX-S-2		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
MA-S-2		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
NH-S-1		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
ST-S-1		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
ST-S-2		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
ST-S-3		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
ST-S-4		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
ST-S-5		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
ST-S-6		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
SY-S-1		570.00	20,520.00	11.00	1.00	1.00	11.00	6,270.00	570.00	6,270.00	570.00	6,270.00	
TMP-S-6 (SY-S-2)		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
SY-S-3		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
UT-S-1		570.00	20,520.00	2.00	1.00	1.00	3.00	1,140.00	570.00	1,710.00	570.00	1,710.00	
MCS-1		2,200.00	79,200.00	2.00	2.00	2.00	2.00	4,400.00	4,400.00	4,400.00	4,400.00	4,400.00	

SUBMITTED BY:

Martin Control Services, Inc.
23905 Freeway Park Drive
Farmington Hills MI 48335

PROJECT: 161024 Macomb MCWDD PM
21777 Dunham Road
Clinton Twp MI 48036

MCS Job: 161024
Application: 3
Period: 02/08/2017

Unit Billing

Schedule of Work Completed

Bid Itc	Description	Price/Unit	Contract Plus Changes	Previous Units Billed	Current Units Complete	Total Units Complete	Previous Value	Current Value	Total Value
	Rain Gauge 1	300.00	1,800.00						
	Rain Gauge 2	300.00	1,800.00						
	Rain Gauge 3	300.00	1,800.00						
	Rain Gauge 4	300.00	1,800.00						
	Rain Gauge 5	300.00	1,800.00						
	Rain Gauge 6	300.00	1,800.00						
	Rain Gauge 7	300.00	1,800.00						
	Clintondale Mag 1	300.00	900.00						
	Clintondale Mag 2	300.00	900.00						
	Clintondale Mag 3	300.00	900.00						
	Clintondale Mag 4	300.00	900.00						
	North Gratiot Mag 1	600.00	1,800.00						
	North Gratiot Mag 2	600.00	1,800.00						
	Clintondale Wet We	800.00	2,400.00						
	Clintondale Wet We	800.00	2,400.00						
	Clintondale East Sc	800.00	2,400.00						
	Clintondale East Sc	800.00	2,400.00						
	Clintondale West S	800.00	2,400.00						
	Clintondale West S	800.00	2,400.00						
Totals:			674,280.00	62.00	24.00	86.00	38,600.00	13,680.00	52,280.00

Job # 161024 Macomb County

Site Visit Worksheet 2017



Macomb County Wastewater Drainage District (MCWDD) Meters

Site Number	Technology	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
CHS-1	OCM III	16M,Q											
CHS-2	OCM III	16M,Q											
CHS-3	OCM III	16M,Q											
CF-S-1	HR200	26M											
CF-S-2	HR200	9M											
CF-S-3	OCM III	N/A											
CF-S-4	HR200	11M											
CF-S-5	HR200	N/A											
CF-S-6	HR200	9M											
FR-S-1	HR200	11M											
FR-S-2	OCM III	11M											
HR-S-1	HR200	9M											
HR-S-2	HR200	9M											
HR-S-3	HR200	9M											
LX-S-1	ABB Mag	26M											
LX-S-2	OCM III	16M,Q											
MA-S-2	HR200	26M											
NH-S-1	HR200	16M,Q											
ST-S-5	HR200	10M											
ST-S-6	OCM III	26M											
SY-S-3	HR200	26M											
CF-S-1 Level	2160	26M											
SY-S-2 Temp	2150	2M											
ST-S-1	OCM III	10M											
ST-S-2	HR200	10M											
ST-S-3	HR200	10M											
ST-S-4	HR200	11M											
SY-S-1	OCM III	2M											
TMP-S-6	Sigma 910	2M											
UT-S-1	HR200	2M											
MC-S-1	Accusonic	N/A											
ST-S-3	Rain gauge												
ST-S-4	Rain gauge												
UT-S-1	Rain gauge												
NGP Pump	Rain gauge												
CH-S-1	Rain gauge												
Cintondale PS	Rain gauge												
23 Mile	Rain gauge												



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

JAN 31 2017
 MH

Service Invoice

Invoice #: WO17000842

Date: 01/27/2017

Billed To: Macomb County Public Works
 21777 Dunham Rd
 Clinton Township MI 48036
 Attn: Accounts Payable

Location:

Client PO#: _____ **Employee:** 923 - Jeff Smith **Due Terms:** 30DY

Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		Labor	1.0000	6,984.000000	6,984.00	N
		Veh. / Tool Allowance	1.0000	350.000000	350.00	N
		Confine Space	1.0000	500.000000	500.00	N
		Material	1.0000	5,353.000000	5,353.00	N

Notes:

NGI air relief valve maintenance and repair.

See work order for details

#3000
 Chg MIDD - NGI MH
 Date 2.13.17
 Chief Deputy AB
 Engineer(s) UA
 Manager(s) _____
 Coordinator(s) 30
 Finance Officer hmm
 PA 034991
 70100

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!

Amount Due: \$ 13,187.00

Staff 2.21.17



Fishbeck, Thompson, Carr & Huber, Inc.
engineers | scientists | architects | constructors

Federal I.D. No. 38-1841857 | Incorporated

MICHIGAN Grand Rapids | Lansing | Kalamazoo | Novi | Macomb Twp
OHIO Cincinnati

Headquarters

1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
p 616.575.3824 | f 616.464.3994

Payment Options

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829
Remit email to Accounts.Receivable@ftch.com
Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546
Major credit cards accepted

FEBRUARY 28, 2017
G150216 MES
ACCOUNT NO: 120985

INVOICE NO: 365525

MR JASON MATTEO PE
MACOMB COUNTY PUBLIC WORKS
21777 DUNHAM RD
CLINTON TOWNSHIP MI 48036

PROJECT: MACOMB CO PW/OMID AS-NEEDED

THIS INVOICE IS FOR THE BILLING PERIOD THROUGH 02/24/2017
WORK INCLUDED PREPARING FOR AND ATTENDING OMID
FMWG MTG ON 2/16/17, ATTENDING SEVERAL MTGS W MCPWC STAFF
TO PREPARE FOR OMID ALLOCATION. PERFORMING ANALYSIS IN PREP
FOR OMID ALLOCATION MEETING W WRC

<u>PROFESSIONAL PERSONNEL:</u>	<u>HOURS</u>	<u>RATE</u>	<u>AMOUNT</u>
ASSOCIATE	13.00	\$169.00	\$2,197.00
TOTAL THIS INVOICE			<u>\$2,197.00</u>

#3000
Chg MID - (OMID)
3.2.17
Chief Deputy *16*
Engineer(s) *elo*
Manager(s) _____
Coordinator(s) _____
Finance Officer *HM*

PA035187 *80300*

KIRK, HUTH, LANGE & BADALAMENTI PLC
 Attorneys at Law
 19500 Hall Rd., Suite 100
 Clinton Township, MI 48038

Invoice submitted to:
 Macomb County Public Works
 Attn William Misterovich
 21777 Dunham Rd
 Clinton Twp, MI 48036

February 01, 2017

In Reference To: OMID

Invoice #80329

1000 - 1000

MH

#3000
 Chg: MIDDSD - OMID

2.13.17

Chief Deputy RB

Engineer(s) _____

Manager _____

Coordinator BD

Finance Officer hms

~~PA035032~~ 80400

Professional Services

		Hrs/Rate	Amount
1/3/2017	RB Pull information and prepare summary per Schapka request dated 12/20	1.00 250.00/hr	250.00
1/13/2017	RB Phone call from Webster; Corres to Schapka; review Board minutes re: Status / info request by Webster;	1.00 250.00/hr	250.00
1/25/2017	RB R/R corres from Viviano & respond re: The records & statues including pulling together file materials request	1.00 250.00/hr	250.00
	RB File review; prep for & attend meeting with Aloia & Viviano;	1.50 250.00/hr	375.00
1/27/2017	RB R/R & respond with docs to corres from Viviano	0.50 250.00/hr	125.00
1/30/2017	RB R/R Substitution Orders x 5 & Respond x 2; Inner - office conference re: substitution of party needed; Corres to Viviano or Aloia; Continue pulling info requested by Viviano & began prep memo per request;	1.25 250.00/hr	312.50
	For professional services rendered	6.25	<u>\$1,562.50</u>
	Previous balance		\$62.50
1/20/2017	Payment - thank you		(\$62.50)
	Total payments and adjustments		(\$62.50)
	Balance due		<u>\$1,562.50</u>

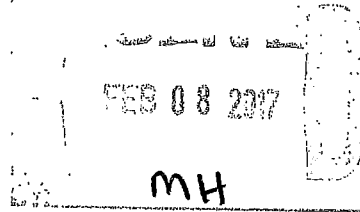
Staff 2.21.17
 Board 3.13.17



Make Checks Payable to
 OAKLAND COUNTY
 TREASURERS-CASH ACCTG BLDG 12 E
 1200 N TELEGRAPH RD
 PONTIAC MI 48341-0479

COUNTY OF MACOMB
 ATTN BRUCE MANNING
 PO BOX 806
 MT CLEMENS MI 48046-0806

INVOICE



Invoice: SDS0004816
 Invoice Date: 2/1/2017
 Page: 1 of 1
 Customer No: SDS00000056
 Payment Terms: NET 45
 Due Date: 3/18/2017

AMOUNT DUE: 182,010.40 USD

For billing questions, please call: 248-858-0942

Original

Line	Description	Quantity	UOM	Unit Amt	Net Amount
1	INTEREST REIMBURSEMENT	1.00	AMT	(30,976.87)	99500 (30,976.87)
2	Debt Svc Fee Income SEMI-ANNUAL PAYING AGENT FEE	1.00	AMT	77.26	99900 77.26
3	Interest from Municipalities INTEREST ON BONDS	1.00	AMT	73,860.01	99500 73,860.01
4	Principal from Municipalities PRINCIPAL ON BONDS INSTALLMENT 7	1.00	AMT	139,050.00	99100 139,050.00
				Subtotal:	182,010.40
				AMOUNT DUE:	182,010.40

PLEASE INCLUDE YOUR INVOICE NUMBER WHEN SUBMITTING PAYMENT.

OAKLAND-MACOMB INTERCEPTOR DRAINAGE DISTRICT BONDS,
 SERIES 2010B

Ch: MIDD - OMID

2.8.17

Chief Deputy AB

Engineer(s) JA

Manager(s)

Coordinator(s) B

Finance Officer AM

Staff 2-21-17
 2-13-17



INVOICE

Invoice: SDS0004826
 Invoice Date: 2/1/2017
 Page: 1 of 1

Make Checks Payable to
 OAKLAND COUNTY
 TREASURERS-CASH ACCTG BLDG 12 E
 1200 N TELEGRAPH RD
 PONTIAC MI 48341-0479

FEB 08 2017
 MH

Customer No: SDS00000056
 Payment Terms: NET 45
 Due Date: 3/18/2017

COUNTY OF MACOMB
 ATTN BRUCE MANNING
 PO BOX 806
 MT CLEMENS MI 48046-0806

AMOUNT DUE: 62,437.58 USD

For billing questions, please call: 248-858-0942

Original

Line	Description	Quantity	UOM	Unit Amt		Net Amount
1	Debt Svc Fee Income SEMI-ANNUAL PAYING AGENT FEE INCLUDES ADJUSTMENT FOR ERROR IN CALCULATION FEB 2015 - AUGUST 2016 CHARGES	1.00	AMT	62.74	99900	62.74
2	Interest from Municipalities INTEREST ON BONDS	1.00	AMT	62,374.84	99500	62,374.84
Subtotal:						62,437.58
AMOUNT DUE:						62,437.58

PLEASE INCLUDE YOUR INVOICE NUMBER WHEN SUBMITTING PAYMENT.

OAKLAND-MACOMB INTERCEPTOR DRAINAGE DISTRICT BONDS,
 SERIES 2014A

Chg: MIDD - OMID

2.8.17

Chief Deputy BS

Engineer(s) VA

Manager(s) _____

Coordinator(s) BD

Finance Officer JAM

Staff. 2.2.17
 3.13.17



MH INVOICE

Invoice: SDS0004892
Invoice Date: 2/9/2017
Page: 1 of 1

Make Checks Payable to
OAKLAND COUNTY
TREASURERS-CASH ACCTG BLDG 12 E
1200 N TELEGRAPH RD
PONTIAC MI 48341-0479

Customer No: SDS00000056
Payment Terms: NET 30
Due Date: 3/11/2017

COUNTY OF MACOMB
ATTN BRUCE MANNING
PO BOX 806
MT CLEMENS MI 48046-0806

AMOUNT DUE: 1,517,616.05 USD

For billing questions, please call: 248-858-0942

Original

Table with 5 columns: Line, Description, Quantity, UOM, Unit Amt, Net Amount. Includes handwritten annotations like '8654,316.57', '9950i', '8863,299.48', '9910i' and a subtotal line.

PLEASE INCLUDE YOUR INVOICE NUMBER WHEN SUBMITTING PAYMENT.

OAKLAND-MACOMB INTERCEPTOR DRAINAGE DISTRICT BONDS,
SERIES 2010A, SERIES 2011, AND 2013A STATE REVOLVING
FUND LOANS AND 2015 SAW LOAN

Signature box containing: Chg: MIDDOD-OMID, Date 2.10.17, Chief Deputy AB, Engineer(s) VA, Manager(s), Coordinator(s) 30, Finance Officer htm.

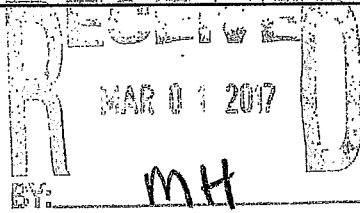
Handwritten note: Staff 2-21-17



INVOICE

Invoice: SDS0004946
Invoice Date: 3/1/2017
Page: 1 of 1

Please Remit To:
OAKLAND COUNTY
TREASURERS-CASH ACCTG BLDG 12 E
1200 N TELEGRAPH RD
PONTIAC MI 48341-0479
United States



Customer No: SDS00000056
Payment Terms: NET 30
Due Date: 3/31/2017

Bill To:
COUNTY OF MACOMB
ATTN BRUCE MANNING
PO BOX 806
MT CLEMENS MI 48046-0806

Amount Due: 4,115,595.25 USD

OMIDD

SEWERAGE DISPOSAL CHARGES FOR MONTH OF
FEBRUARY 2017

For billing questions, please call: 248-858-5207

Original

Table with 5 columns: Contract, Activity, Description, Quantity, Net Amount. Row 1: Wastewater Disposal Charge, 4.00, 4,115,595.25. Row 2: Total Amount, 4,115,595.25.

Amount Due: 4,115,595.25

PLEASE INCLUDE YOUR INVOICE NUMBER WHEN SUBMITTING PAYMENT.

Handwritten notes: Chg. MID #3000, Date 3.1.17, and signature lines for Chief Deputy, Engineer(s), Manager(s), Coordinator(s), and Finance Officer.

Handwritten list of items: 92900 @ 3,866,893.50; 92904 @ 198,272.67; 92908 @ 50,429.08; PA035189



Invoice submitted to:
Macomb Interceptor Drain Drainage District
21777 Dunham Road
Clinton Township, MI 48036

Invoice No. 18531
Invoice Date: 2/8/2017
Billing period: - 1/31/2017

Matter: OMIDDD Litigation

Previous balance		\$0.00
Payments and other transactions		\$0.00
Total fees		\$893.00
Total expenses		\$0.00
Total new charges	<i>Chg MIDD - OMID</i>	\$893.00
Requested funds replenishment	<i>2.8.17</i>	\$0.00
Balance Due		\$893.00

Engineer(s) _____
 Manager(s) _____
 Coordinator(s) *BD* _____
 Finance Officer *hym* _____

PA034967 804.00

Please detach this section and return it with your payment to ensure that your account is properly credited.

Macomb Interceptor Drain Drainage District
21777 Dunham Road
Clinton Township, MI 48036

Invoice No. 18531
Invoice Date: 2/8/2017



48 S. Main Street, Suite 2
Mt. Clemens, MI 48043

Previous balance	\$0.00
Transactions	\$0.00
New charges	\$893.00
Funds replenishment	\$0.00
Balance due	\$893.00
Payment amount	\$ <u>893.00</u>

*Staff 2-21-17
Board 3-13-17*