

EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
FEBRUARY 14, 2022
10:15 A.M.
AGENDA

**NOTE: THIS MEETING WILL BE HELD IN PERSON WITH TELECONFERENCE
OPTION FOR PUBLIC**

**Call in Number: 1-971-770-2471
Access Code: 669 029 760**

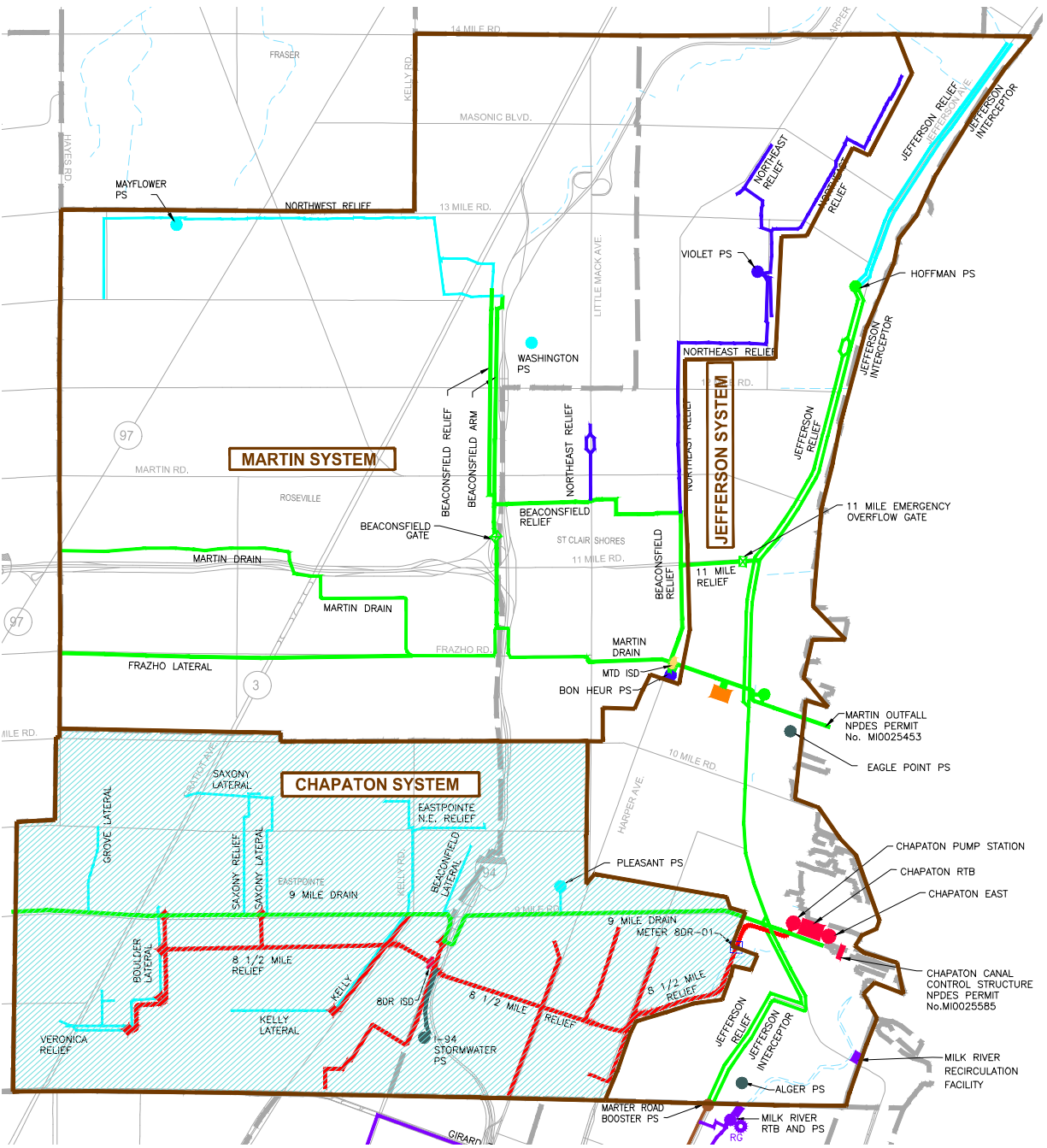
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1. Call of meeting to order and roll call	
2. Approval of Agenda for February 14, 2022	
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Motion: To approve the proposal from L. D'Agostini for an amount not to exceed \$258,050 for the expansion joint repairs at the Chapaton retention basin.	
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Motion: To approve the proposal from Weiss Construction Company for an amount not to exceed \$360,000 for pre-construction design support and development of construction pricing for the 9 Mile Pump Station.	
8. Consideration for approval of invoices (see attached)	65
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10. Adjourn	

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

CHAPATON SYSTEM MAP

Macomb County, MI

Southeast Macomb Sanitary District Wastewater Master Plan



SYSTEM LEGEND
(AS OF DATE OF PUBLICATION)

- SYSTEM BOUNDARY

DISTRICT LEGEND
(AS OF DATE OF PUBLICATION)

- 8 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT
- SOUTHEAST MACOMB COUNTY WASTEWATER DISPOSAL SYSTEM
- MARTIN SANITARY DIVERSION DISTRICT
- SOUTHEAST MACOMB SANITARY DISTRICT
- NORTHEAST SEWAGE DISPOSAL SYSTEM
- MILK RIVER INTERCOUNTY DRAIN DRAINAGE DISTRICT
- LOCAL MUNICIPALITY
- OTHER

ASSET LEGEND

- PUMP STATION
- FLOW CONTROL STRUCTURE
- RTB
- GRAVITY INTERCEPTOR
- IN-SYSTEM STORAGE DEVICE
- OVERFLOW POINT
- LEVEL SENSOR
- RAIN GAUGE
- FLOW METER

PLOT INFO: Z:\2018\181053\CAD\PRECED\SEMSD_OVERALL.DWG LAYOUT: FIG 3-6_CHAPATON SYS DATE: 7/20/2021 TIME: 1:33:59 PM USER: WESEDK1

PROJECT NO.

181053

3.6

An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan on January 10, 2022, at 10:28 A.M.

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

ALSO PRESENT: Dan Acciavatti, Deputy Government Relations; Vince Astorino, Operations & Flow Manager; Brian Baker, Chief Deputy; Jeff Bednar, Environmental Resources Manager; Stephen Downing, Construction & Maintenance Manager; Norb Franz, Communications Manager; Bruce Manning, Financial Manager; Tom Stockel, Construction Supervisor; Madison Tanghe, Administrative Coordinator; Joe Romano and Don VanSyckel, Macomb County Board of Commissioners

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

Adopted: YEAS: 3
NAYS: 0

Minutes of the meeting of December 13, 2021 were presented. A motion was made by Mr. Santo, supported by Ms. Klinefelt to approve the minutes as presented.

Adopted: YEAS: 3
NAYS: 0

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

Mr. Astorino updated the board regarding the wet weather event that occurred on December 11, 2021 with about 1.19 inches of rain resulting in a treated discharge amount of 7.1MG. Although it was a smaller rain event, it happened during a non-growing season making the storm behave as if it was a larger rain event. All equipment worked as designed. Water quality numbers were good at 5cts/100ml. Per our permit, we have a total residual chlorine average for the entire event of 1.5 parts per million, and we were at 1.58 parts per million. Our permitted event maximum is 1.9 ppm and the numbers were well below that number, although we did have to report to EGLE.

Moving on to Chapaton Basin and Nine Mile Structure repairs, Mr. Astorino stated we are still waiting to close out that project. We are still waiting on one final quote for additional repairs needed in the basin. We sat down with Weiss, the contractor for the Chapaton In-System Storage Project. Contracts have been signed and returned to them this week. The plan is to give them the notice to proceed with the work on February 1, 2022, and they anticipate to start around March or April. This is all dependent on whether they can get DTE and others out to relocate utilities that need to be relocated before they can start their work.

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

Adopted: YEAS: 3
NAYS: 0

Mr. Astorino discussed the In-System Storage Construction Contract Administration. The recommendation is to continue to use Tetra-Tech for the construction contract administration. We waited to bring to the board because we wanted to sit down with Weiss first, to make sure that their schedule lined up with our schedule so that Tetra-Tech could put together proper timing for their estimate of this work. We've gone back and forth with them, and also will be bringing on a new Construction Supervisor to help us manage this project, which has been able to reduce this cost.

Mr. Santo asked what the original estimated cost was. Mr. Astorino discussed that the original estimate was about \$14 million and then we trimmed out Welch Park by making operational improvements to Chapaton, which then brought the construction estimate down to \$9.3 million. Mr. Santo asked if the \$1 million Tetra Tech contract at almost 11% is the going rate. Mr. Santo was thinking more like 7% - 8%, somewhere in that range and says that it seems a little high. Mr. Astorino remarked that it's the different aspects of it, and that there are 4-5 different zones that they have to go to. It's not just one area. He said it is slightly higher, but it comes down to the full time resident project representative costs. Mr. Astorino confirmed that the costs are based on an as needed hourly rate.

Ms. Miller reminded the Commissioners that they did approve a position in the budget for the hiring of a Construction Supervisor, which will really bring down the cost of inspections, rather than having the cost of the engineers all the time. She mentioned that the position is not just for this project, but for all of the projects that we have going on.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the Construction Contract Administration Proposal and enter into an agreement with Tetra Tech for the amount \$1,024,974 for the In-System Storage Project.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the Chapaton Canal Rehabilitation Design recommendation to further lower CSO's. The canal expansion project that we've worked on for years was denied by EGLE. We had a unanimous resolution passed by the County BOC, every one of our Democrat and Republican lawmakers in our house/senate delegation from Macomb, city council members from St. Clair Shores, etc, but the state, through EGLE denied our permit. But we aren't going away. We have looked at other things, like in-system storage. We had some discussion about doing a re-design with our existing canal that is immediately behind the retention basin. There are gates there that release right into the canal. The gates are old and need to be rehabbed anyway, we spoke with EGLE and they've agreed to give us a permit on this.

Mr. Astorino stated we are between \$12 million - \$14 million cost for this project. Once we get into it a bit, we'll have a better idea. First step will be putting together a conceptual cost. A lot of the cost is the gate structure, but as the Chair mentioned, the gate is old and in disrepair and needs to be updated anyway. We still have the nine mile drain in there. It's circa 1927, it's in bad shape and was never properly abandon, so we will now take the proper steps to abandon the drain and build up the grade on that side. The North side is eroding away, it was never sheeted and will be built up to a higher elevation. The gates were originally put in as part of the Lake St. Clair Clean Water Initiative and are at the end of their useful life. New gates will open from the top down, with an inflatable bladder and crest plates just like the Clinton River Spillway. He explained that right now the gates open from the bottom, and take about 10 minutes to open, so in a big wet weather event as soon as you start putting water into that canal, you can fill that entire retention basin (28 million gallons) in about thirty minutes. With the new set up, we would have a concrete wall at the end with an inflatable

bladder and a crest plate on top of that which would essentially inflate and deflate. So the canal would fill, then you could safely lower that down and let water go out. In the new design, we can put a pipe directly out into the lake to save us from having to fill the canal every time we flush it which will save \$200,000 a year.

Ms. Klinefelt then asked if there was still any consideration for planting like what was originally discussed. Mr. Astorino said that they can evaluate that. They were looking at doing slope sides which would allow for planting, however they looked at doing sheeting to maximize volume, because as soon as you do slope sides, you lose storage. He explains that we'll definitely evaluate that. Ms. Miller adds that there is ample land there, including a boat launch that hosted a Bass Fishing Tournament last year.

Mr. Astorino is proposing to use Wade Trim, under their existing contract. They reached 100% design as part of the larger canal expansion project. He would like to go through and update the design to make sure that everything that we are proposing will work. Then we can reutilize the design that is 100% complete. It's just under \$100,000, and about 3 months' worth of work. Then we would come back to the board to present results at a later date, then hopefully have a proposal for the remainder design.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the design proposal and establish an engineering work order to Wade Trim on their existing contract for the not to exceed amount of \$99,812 for the Canal Rehabilitation Project.

Adopted: YEAS: 3
NAYS: 0

The Chair presented the invoices totaling \$25,877.61 to the board for review and approval.

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

Adopted: YEAS: 3
NAYS: 0


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

Adopted: YEAS: 3
NAYS: 0

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


Adopted: YEAS: 3
NAYS: 0

The meeting was adjourned at 10:52 a.m.


Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on January 10, 2022 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: 01/10/2022



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: February 14, 2022

Subject: Construction Projects Status Updates for the February 2022 Board Meeting

The following provides a status update for construction work completed within the 8 ½ Mile Relief Drain Drainage District (8MRDDD) for the previous month.

Wet Weather Operations

No wet weather events for this past month.

Chapaton Basin and 9 Mile Drain Structural Repairs Project

Contractor: Pullman

Engineering Consultant: NTH

Project Description:

This project consists of performing concrete repairs within the Chapaton RTB (constructed in 1968) and the 9-Mile Drain (constructed in 1926). Recent inspections were performed and various types of repairs in numerous locations were noted in the reports. Repairs primarily consist of chipping away damaged concrete, prepping the reinforcing steel and remaining concrete surfaces, and installing a specialized concrete product flush to adjacent surfaces.

Significant project tasks that have occurred over the past month:

1. Continued efforts to close-out project

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$736,950.00
Total Spent to Date	Pay App #1-4	\$368,576.14

Remaining Budget		\$368,373.86
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Chapaton In-System Storage Project

Contractor: Weiss Construction

Engineering Consultant: Tetra Tech

Project Description:

The primary focus of the project is the construction of an access shaft and installation of the In-System Storage Device at Beaconsfield and Oak in Eastpointe. This project will achieve an additional 3.5 million gallons of storage within the 8.5 Mile Relief tunnel.

Significant project tasks that have occurred over the past month:

1. Notice to proceed was issued on January 31, 2022.
2. Weiss has started working with DTE for utility relocation at Beaconsfield.
3. Project kick off meeting scheduled for February 11, 2022.

Construction Costs:

	Date (if applicable)	Amount
Original Contract Amount		\$9,673,200.00
Total Spent to Date		-
Remaining Budget		\$9,673,200.00



Candice S. Miller

Public Works Commissioner
Macomb County

To: 8 ½ Mile Relief Drain Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: February 9, 2022

Subject: Chapaton RTB Expansion Joint Repairs – Construction Contract Recommendation

In early 2021, MCPWO solicited competitive bids for the concrete repairs within the Chapaton RTB and 9-Mile Drain adjacent to the Chapaton Pump Station. The project was awarded to Pullman SST, Inc. with construction oversight provided by NTH Consultants (via Fishbeck As-Needed contract). The base scope repairs began in May 2021 and were completed by the end of 2021.

During the course of the project, significant defects were identified at the expansion joints within the Chapaton RTB. When the overhead basin flushing system was installed in the late 1970's, the steel support columns were bolted to the wall on both sides of the vertical expansion joints. Although the original designer may have intended for this configuration to allow for horizontal movement, over time, this movement became restricted. As the concrete basin walls expanded and contracted (a normal occurrence) the steel hardware remained stationary, effectively defeating the concrete and causing cracks to form. These cracks have propagated nearly the entire height of the basin wall and large sections of concrete are delaminated. Two typical photos of the damaged concrete are shown below.



Figure 1 – Crack at Support Column / Joint



Figure 2 – Joint Repair Close-up

There are fifteen (15) locations within the RTB that need to be repaired. There is a considerable amount of effort to even access these repairs since they are largely obstructed by the support column. This additional work was not included in the original contract drawings and therefore a cost was requested from Pullman prior to authorizing the work. The resulting cost proposal was high enough that, rather than just obtain board approval, staff felt it appropriate to seek out additional quotes for the board's consideration. Two companies, L. D'Agostini & Sons and Doetsch Environmental, were contacted as they are both capable of performing the work and are also under contract on other county projects and are therefore familiar with MCPWO procedures and requirements. The overall quotes are noted below:

- L. D'Agostini & Sons = \$258,050
- Doetsch Environmental = \$309,090
- Pullman SST, Inc. = \$364,500

One item of note for this contract is that this work will be performed on a unit price basis. As was true during the Pullman portion of the project, some quantities may exceed and some may be under the amounts listed in the contract. This work will have full-time construction observation and actual installed quantities will be tracked closely. There is significant budget remaining to complete this work and a summary is shown below:

Item	Chapaton RTB	9-Mile & 8.5 Tunnel	Total
MCPWO Budgeted:	\$750,000.00	\$500,000.00	\$1,250,000.00
NTH Study & Design Fee:	\$80,613.00	\$16,256.00	\$96,869.00
Pullman Total:	\$271,774.16	\$196,801.98	\$468,576.14*
NTH CCA Fee:	\$74,664.56	\$54,067.44	\$128,732.00
Proposed D'Agostini Total:	\$258,050.00	-	\$258,050.00
Budget Deficit/Surplus:	\$64,898.28	\$232,874.58	\$297,772.86

*Final Pay App quantities estimated at this time but are not expected to significantly change. Also, please note approved Pullman contract was for \$736,950 and came in significantly under budget.

MCPWO is recommending that the board award this work in the NTE amount of \$258,050 to L. D'Agostini & Sons. Upon approval, MCPWO will prepare an agreement with LDS that formalizes the cost proposal, drawings & specifications, and insurance requirements.

Attachments: LDS Expansion Joint Cost Proposal dated 01/19/22



15801 23 Mile Road
Macomb Township, MI 48042

L. D'Agostini and Sons, Inc.

Office: (586) 781-5800

Fax: (586) 781-5829

January 19, 2022

Steve Wagner, P.E.
Engineer II
Macomb County Public Works Office
21777 Dunham Road
Clinton Twp., MI 48036

(VIA E-MAIL)

RE: Chapaton Basin Expansion Joint Repairs Proposal

Mr. Wagner:

L. D'Agostini & Sons, Inc. ("D'Agostini") has reviewed documents provided from Macomb County Public Works and visually inspected the basin with Macomb County personnel. Below is our understanding and description of work to be performed and a unit price cost proposal – (a) cost per column (without cross columns) to be relocated to repair the existing spalling and (b) cost per column (with non-structural cross columns) to be relocated to repair existing spalling.

During our visual inspection at Chapaton Basin, concrete spalling was observed in the expansion joints and appeared to be caused by anchor bolts placed too close to the expansion joints. The existing columns located at these joints need to be completely removed for access to repair the spalled concrete and reinstalled as further described below to hopefully prevent this issue from reoccurring.

Based on our inspection and the attached documentation provided from Macomb County that was considered and is incorporated into our proposal, we propose the following:

SCOPE of WORK

- Support existing pipe per attached detail provided by NTH (**Attachment 1**)
- Remove existing steel column support for access to expansion joints
- Repair west expansion joints at Column 21 N, 11 N/S, 16 N, 21 S, repair middle section expansion joints at 26 N, 31 N/S, 26 S, 41 S, and repair east end expansion joints at 46 N, 51 N, 46 S, 51 S, and 56 S. Columns 21 N (west end) and 21 S (west end) will be repaired using Detail 2 of **Attachment 2** and the remaining columns will be repaired using Details 1 and 10 of Attachment 2.
- Reinstall existing column beam with new anchor and bottom plates as follows:
 - Extend ½" thick steel wall anchor plates 18" each side of column and fasten to wall using anchors and ¾" bolts per **Attachment 3**.

- Extend ½” thick steel bottom anchor plates 8” from column and fasten to floor using anchors and ¾” bolts per Attachment 2.

ADDITIONAL SCOPE OF WORK – per existing columns with non-structural cross columns

- Bracing for non-structural cross columns per NTH details included in Attachment 1:
 - Cut beam 5’ from column and brace
 - Reinstall using two plates welded to I-Beam

D’Agostini proposes to complete this work for \$15,300.00 Each per column without cross column and \$18,100.00 Each per column with cross column. These unit prices assume a scope of work of 15 repairs, but if Macomb County desires to break up this repair work into phases, these unit prices will not require adjustment if each phase has at least 4 repairs.

D’Agostini will perform lock out of the basin daily pursuant to Macomb County’s instructions and with Macomb County personnel. All tools required to perform the work will be removed daily and stored on site at a location directed by Macomb County. All material used will be submitted to Macomb County for approval. All other work not expressly provided in this proposal is excluded including without limitation any insurance that D’Agostini currently does not have in place, bonding, inspections, permits, or any fees or costs associated with this work other than the labor, tools, and material required to perform the above-referenced scope of work.

This proposal is based on the attached repair method documentation provided by Macomb County. D’Agostini does not guarantee that this proposed repair work (or any approved deviation therefrom) will prevent additional concrete spalling at these locations.

If you have any questions regarding this proposal, please contact me to discuss. If not and you find it acceptable, please return this proposal to me signed on page 3 by an authorized representative of Macomb County Public Works and let us know when the work may proceed and the contact person from your office with whom we should coordinate this work. D’Agostini can provide the required submittals and a project schedule as soon as it is notified to do so.

We appreciate the opportunity and look forward to working with you.

Very truly yours,

L. D’Agostini & Sons, Inc.

Joseph P Felan

Joseph P. Felan
Project Manager

Cc: Michael D’Agostini

Attachments

ACCEPTED:

Macomb County Public Works

By: _____
Its: _____
Date: _____



Candice S. Miller

Public Works Commissioner
Macomb County

To: Board Members of the 8 ½ Mile Relief Drain Drainage District (8MRDDD)

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: February 7, 2022

Subject: 8MRDDD 9 Mile Pump Station Project– Construction Manager at Risk Recommendation

Macomb County Public Works Office (MCPWO), on behalf of the 8MRDDD, has coordinated a competitive request for proposals for the construction manager at risk (CMAR) for the 9 Mile Pump Station.

In 2018, MCPWO commissioned a study of the entire MCPWO wastewater system to develop a Master Plan. As part of this overall Master Plan, the SE Macomb wastewater districts were a key focus. The SE Macomb portion of this has now been completed and one of the key recommendations from the Master Plan team was to build the 9 Mile Pump Station (PS). It was found that current Chapaton Pump Station does not meet firm pump capacity. During large rain events, if one of the large storm weather pumps was to fail or the emergency bypass is needed and lake levels are high the current facility will not be able to handle incoming flows. This has the potential to cause significant flooding impacts in the upstream collection system.

MCPWO put together a request for proposal package that was posted to MITN on December 17, 2021. The proposals were due on January 27, 2022. For this CMAR package, MCPWO received one proposal which was from Weiss. MCPWO believes that the lack of proposals was due to a couple of factors. There are other CMAR projects in the region that went out to bid just before the 9 Mile PS RFP. This limited the availability of contractors that could provide this delivery method to MCPWO as those were being awarded around the time that this RFP was due. The other reason is that MCPWO and EGLE have established a very aggressive schedule for this project which was of concern for several contractors due to their current workloads.

MCPWO evaluated the Weiss proposal by reviewing their technical proposal first and then their costs. Weiss has performed a couple projects for MCPWO in the past couple years with the Chapaton & Martin Disinfection Replacements and the Meter Rehab project within the MIDDD. Both were very successful and MCPWO had an excellent working relationship with Weiss. They have also just been awarded the In-System Storage project for the 8MRDDD as they were the lowest qualified bidder.

MCPWO interviewed Weiss on February 2, 2022 to have Weiss provide further clarification on their proposal and costs. This interview went well and Weiss was able to successfully answer all questions that were proposed to them in a favorable manner.

Typically MCPWO would not be satisfied with just one proposal but Weiss delivered an excellent proposal with cost package that is very favorable to the district. Below is a breakdown of this proposal and comparison to other CMAR contracts in the region.

Phase 1 of the contract will consist of working with MCPWO and Tetra Tech to bring the design of the 9 Mile PS to 100%. This will be done on a time & material basis and will be given a total NTE amount. The second part of this phase is that Weiss will develop a guaranteed maximum price (GMP) to construct the 9 Mile PS. Currently this is scheduled to be provided to MCPWO at the 60% design phase which is April 15, 2022. MCPWO is working with EGLE to potentially delay this GMP to the 90% design phase which would mostly eliminate any design contingency and provide the district with better pricing by allowing the contractor more time to understand the design and in turn provide better pricing. For this total task Weiss has proposed a total time & material NTE cost of \$360,000. In comparison, Walsh (who was a potential bidder on this project) which was awarded a similar project for Northeast Sewage Pump Station (NESPS) was at \$420,000 for their Phase 1 portion of work. Weiss's cost is fair and in line with other projects within the region. **It should also be noted that this is the only phase of work within their proposal that we are bringing to the board at this time.**

Phase 2 of the contract relates to the construction of the 9 Mile PS. Weiss will put together a GMP as part of phase 1 and if the drain board approves this GMP then these other items will go into action. The drain board does not have to move forward with the GMP and if the numbers provided are not in line with the engineer's estimates then this project can be put out to bid in a traditional design/bid/build fashion. If the GMP is approved then Weiss has provided their proposed markup to all subcontractors on the project which is at 3%. To provide a comparison for others in the region, Walsh was at a 5.75% markup at NESPS. Another project is the large 96" water main replacement by GLWA which was recently awarded to Kiewit (another potential bidder to this project). Kiewit's markup is at 15% for that project. The Weiss markup is very favorable to the drain district.

Phase 3 of the contract relates to construction management and general condition fees. Weiss has proposed \$30,000 per month to manage the construction project which at an estimated 24 months to construct is \$720,000. As a comparison to other projects in the region, Walsh for NESPS was at approximately \$4.5 million for an estimated four-year project. If the Weiss project cost for this is extended for the same time period they will be at \$1.4 million. For the general conditions markup, Weiss has proposed a 6% markup on costs for this task. This includes items such as job trailers, temporary utility feeds, and any other job related temporary items. This cost is reasonable and can be managed with the contractor.

Ultimately Weiss has brought forward a good proposal with favorable costs for the district to consider. There has been a strong working relationship with Weiss and MCPWO which will be critical for project of this complexity and scale. This first phase of work has been budgeted and is well within that amount of \$2.5 million which was established for the CMAR and overall CCA services of the project.

MCPWO staff is recommending to award the contract to Weiss in the total NTE amount of \$360,000 to assist with the pre-construction design support and development of the GMP for the 9 Mile Pump Station on a time-and-material basis.

Attachments: Tetra Tech Recommendation Letter
Weiss Revised Cost Proposal
Weiss Technical Proposal



February 3, 2022

Mr. Vince Astorino
Operations and Flow Manager
Macomb County Public Works Office
21777 Dunham Road
Clinton Township, MI 48036

**Re: 8-1/2 Mile Drain
Nine Mile Pump Station
CMaR Proposal Award Recommendation**

Dear Mr. Astorino:

Construction Manager at-Risk proposals were received on January 27, 2022 for the above referenced project. One proposal from Weiss Construction Company, LLC of Novi was received. We feel the low number of proposals was due to other similar bids and proposals currently occurring in the region.

Macomb County Public Works staff and Tetra Tech interviewed the Weiss project team on February 2, 2022. Weiss showed an understanding of the project and an enthusiasm to complete the assignment. While Weiss did not demonstrate any past CMaR projects, they did present previous design-build projects which are a similar contracting approach. Furthermore, the assigned Vice President demonstrated experience with CMaR under prior employment. We found that their proposed compensation method was more than reasonable for the complexity involved.

Both Tetra Tech and the Public Works staff have worked with Weiss on previous projects with favorable results. Weiss is currently beginning the In-System Storage Project for the District. In December, as part of the In-System Storage bid review, Tetra Tech called Weiss' references and received favorable reviews of their work.

Tetra Tech recommends the 8-1/2 Mile Drain Drainage District award the CMaR preconstruction phase to Weiss Construction Company, LLC. This phase will culminate in a Guaranteed Maximum Price for construction that will be brought back to the District for consideration this summer.



TETRA TECH

Thank you for the opportunity to serve you on this project. We look forward to a successful next phase.

Sincerely;

Brian M. Rubel, P.E.
Vice President

MCPWO Nine Mile Pump Station Fee Proposal

Submitted By: Weiss Construction Co., LLC

PART 1 – PRE-CONSTRUCTION SERVICES FEE (As Derived Below)

Numbers: TBD. Actual fee to be based on T&M rates. Estimated Fee is \$333,500.00

Word: Three hundred thirty three thousand five hundred dollars even

Our total fee for preconstruction services will be determined on a T&M basis at the unit rates presented below for both Design Coordination and GMP Development services.

While payment will be based on actual time spent, we have estimated our required effort for both our Design Coordination and GMP Development efforts. The associated cost figures are just estimates as our level of involvement is dependent upon the specific scope of services you request of us for design coordination phase and at what stage of design (i.e. % complete) you want the GMP to be based upon.

Design Coordination Services –We expect this phase will last approximately 25 weeks from CMaR Contract Award to 100% design completion. Our cost for these services is wholly dependent upon the scope of services you will require. In the absence of any specific RFP scope criteria for this phase, our estimate is based on the number of hours per week that each named individual or respective job classification are expected to be involved.

On this basis, we estimate our fee for design coordination services will be on the order of \$185,000.00. A breakdown of this amount is presented below. The associated hours per week expected can be obtained by dividing the total manhours by 25.

<u>Name / Company</u>	<u>Project Title/Role</u>	<u>Total Manhours</u>	<u>Hourly Rate</u>	<u>Amount</u>
K Markhardt / Weiss	Project Executive	100	\$205	\$20,500.00
K Clarey / Weiss	Project Manager	600	\$115	\$69,000.00
J Mulville / Weiss	Lead Estimator	400	\$160	\$64,000.00
M Kemper / Weiss	Senior Estimator	200	\$105	\$21,000.00
B Rosenberg / Rotor	Project Executive	50	\$200.00	<u>\$10,000.00</u>
Subtotal for Design Coordination =				\$184,500.00

GMP Development and Negotiation - We understand that the Owner is still evaluating when the GMP should be developed. Current plans call for GMP development at 60% design completion. However, we understand that consideration is also being given to delaying GMP development until 90% design completion is achieved.

The figures shown below represent our estimate of what it will take to develop a GMP price based on 60% design completion. At only 60% design, it will be difficult to secure firm pricing and Prime Contract term compliant quotations for some, if not most, of the various bid trade packages and high value/long lead equipment items. As such, our GMP estimating efforts at 60% are expected to be a hybrid

combination of firm price estimates coupled with unit price based conceptual budgets. For the GMP at 60%, we estimate a minimum period of 4 weeks will be required to develop the GMP. Our estimate of the cost of these services is presented as follows:

<u>Name /Company</u>	<u>Project Tile/Role</u>	<u>Total Manhours</u>	<u>Hourly Rate</u>	<u>Amount</u>
K Markhardt/ Weiss	Project Executive	80	\$205	\$16,400.00
K Clarey / Weiss	Project Manager	140	\$115	\$16,100.00
J Mulville / Weiss	Lead Estimator	240	\$160	\$38,400.00
M Kemper / Weiss	Senior Estimator	240	\$105	\$25,200.00
J Axelson / Weiss	Estimator	220	\$95	\$20,900.00
B Rosenberg / Rotor	Project Executive	60	\$200	\$12,000.00
S McGlynn / Rotor	Project Manager	100	\$200	<u>\$20,000.00</u>
Subtotal for GMP Development =				\$149,000.00

GMP @ 90% Design - If the schedule permits, we expect that considerable cost benefit could be realized by the Owner if GMP development is delayed until the design has progressed to 90%. At this level of design completion, we would be able to secure firm price and Contract compliant quotations for most, if not all, bid packages. Furthermore, with additional design development, the level of risk due to cost uncertainty is reduced. As such, the scope and total value of the GMP contingency account would be expected to decrease accordingly.

In summary, if GMP price development is delayed until 90%, our GMP will be more refined and with far less contingencies inherent to a 60% GMP. However, it should be noted it will come at a slight increase in our price for GMP development services. Unlike the four-week 60% design scenario, our estimating efforts at 90% will be almost entirely firm price / hard money estimating with very little conceptual budgeting efforts. For a project of this size and complexity, we believe a bid period of at least 6 weeks will be necessary. Our estimate of the cost of GMP development at 90% is presented below:

<u>Name /Company</u>	<u>Project Tile/Role</u>	<u>Total Manhours</u>	<u>Hourly Rate</u>	<u>Amount</u>
K Markhardt/ Weiss	Project Executive	120	\$205	\$24,600.00
K Clarey / Weiss	Project Manager	210	\$115	\$24,150.00
J Mulville / Weiss	Lead Estimator	360	\$160	\$57,600.00
M Kemper / Weiss	Senior Estimator	360	\$105	\$37,800.00
J Axelson / Weiss	Estimator	330	\$95	\$31,350.00
B Rosenberg / Rotor	Project Executive	0	\$200	\$0.00
S McGlynn / Rotor	Project Manager	0	\$200	<u>\$0.00</u>
Subtotal for GMP Development =				\$175,500.00

In summary, we believe the slight increase in our GMP development fee will be more than offset by the benefits realized from a more competitive GMP coupled with a significant reduction in GMP contingency.

PART 2 – CONSTRUCTION SERVICES FEE

Weiss Construction’s fee for CMAR construction phase services will be determined on the following basis:

<u>Service</u>	<u>Cost Basis</u>
Procurement of Subcontractors	Subcontracted cost + 3%
Project Management & Field Supervision Staff	\$30,000 per month NTP to Final completion
General Conditions and all other costs	Cost plus 6%
GMP Contingency *	60/40 Split (Owner/CMAR)

In order to clarify the scope and application of the individual fee components we offer the following regarding each:

Procurement of Subcontractors – This is our fee to procure and administer all bid package subcontracts from cradle to grave. We expect that most if not all long lead mechanical, process and electrical equipment will be included in the scope of supply for the respective trade bid packages. However, if during the preconstruction phase it is determined that “furnish equipment only” bid packages would benefit the project, this fee would also apply to any such Purchase Order.

Project Management & Field Supervision Staff – This is our monthly Lump Sum fee to provide our project management and field supervision staff. This would include our full-time on-site Project Manager and Superintendent as well as support staff including field engineers, schedulers and safety officers that will not be on site full-time but will be involved on a regular basis during the entire duration of the Construction phase. It should be noted that this lump sum fee is for our project management and supervision labor only. Besides a minor allowance for company vehicle, cell phones and laptop computers, no other field equipment or field office/facility costs are included in this item.

General Conditions and all other costs – This item provide us compensation on a cost-0plus basis for all other field related general conditions costs beyond our field supervisory staff. These costs would be submitted monthly using an itemized invoice open book approach. The costs would include items such as:

- Field office trailers and office equipment mobilization, rental, maintenance and demobilization.
- Site utility bills and permit/inspection costs
- Porta Johns, general cleanup, road cleaning, snow removal and overall site maintenance.
- Site safety temporary facilities and features that cannot be assigned to any one trade as they will benefit multiple trades. This would include labor and material cost to install and maintain handrail/barriers/platforms/stair towers and other facilities required to support multiple trade ingress/egress to common work areas.
- Temporary site fencing, traffic control, signage, QA/QC material testing, survey/layout and other field support services that the Owner/Engineer/CMAR team collectively decide to not procure by individual subcontract bid package, but rather on an as needed invoiced basis.

GMP Contingency – The Guaranteed Maximum Price budget that will be developed by the Weiss CMAR Team will include a Change Contingency line item that would be used as a source of funding to compensate the CMAR for potential changes that may be realized after the GMP is established but before the design is completed. The CMAR will work collaboratively with the Owner and Engineer to establish a reasonable contingency budget amount. At project final completion, any remaining contingency funds will be split 60/40 between the Owner and CMAR with the Owner realizing the greater percentage.

As noted in our recent meeting, Weiss is agreeable to eliminating the sharing of the GMP contingency. However, if this is how the Owner elects to structure the agreement, we would need to opportunity to re-evaluate our % Fee for Subcontractor services. In any event we understand that MCPWO is considering shifting the GMP from 60% to 90% milestone. Under this scenario, any design uncertainty is significantly reduced and as such, the scope and value assigned to the contingency will reduce accordingly. As such, perhaps it would be best to table any further negotiation on fee adjustment related to this item until a decision is made on what % design milestone will be used to develop the GMP.

Part 3 – Proposal Fee Assumptions & Exclusions

Our fee for Pre-Construction and Construction Phase Services is based on the following assumptions and exclusions:

1. CMAR will assist with permitting effort's but all permit costs are by the Owner.

Part 4 – Self Performed Work


The reader is referred to pages 33 and 34 of our technical proposal for our position regarding self-performed work upon which our proposal price is based.

Construction Manager At-Risk Services
8 1/2 Mile Relief Drain Drainage District


BIDDER hereby submits this Bid as set forth above:

Bidder:

Weiss Construction Co. LLC

By:  *(typed or printed name of organization)*
(individual's signature)
Name: **Kevin Markhardt**
(typed or printed)
Title: **Vice President**
(typed or printed)
Date: **January 27, 2022**
(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest:  *(individual's signature)*
Name: **Karen Longuski**
(typed or printed)
Title: **Office Administrator**
(typed or printed)
Date: **January 27, 2022**
(typed or printed)

Address for giving notices:
41001 Grand River
Novi, MI 48375

Bidder's Contact:

Name: **Kevin Markhardt**
(typed or printed)
Title: **Vice President**
(typed or printed)
Phone: **313.567.4500**
Email: **kmarkhardt@weiss-construction.com**
Address: **41001 Grand River**
Novi, MI 48375
Bidder's Contractor License No.: (if applicable) **8000666**



WEISS CONSTRUCTION CO LLC

41001 Grand River Ave
Novi, MI 48375
TEL# (313) 567-4500

**CERTIFICATE OF RESOLUTION
WEISS CONSTRUCTION CO. LLC
A Michigan Limited Liability Company**

WHEREAS, Section 223 of the Michigan Business Corporation Act provides that members of a limited liability company may, by written instrument, select members and adopt by-laws; and

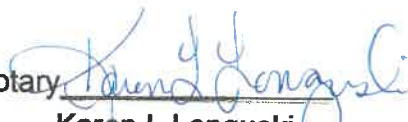
WHEREAS, the undersigned, being a member of Weiss Construction Co., LLC, a Michigan limited liability company (hereinafter referred to as the "Company"), hereby declares that Kevin Markhardt is the Vice President of the Company, and that he is solely authorized to execute and deliver, in the name and on behalf of Weiss Construction Co., LLC and under its seal or otherwise, any agreement or other instrument or document in connection with any matter or transaction, or other instrument as evidenced by his signature appearing below.

Signed by:



Daniel Weiss, Sole & Managing Member

Date: January 27, 2022
Weiss Construction Co. LLC

Notary 
Karen L Longuski

KAREN L LONGUSKI
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF WAYNE
My Commission Expires December 08, 2024

(SCP 04/2014)

Michigan Department of Licensing and Regulatory Affairs
Bureau of Construction Codes
Licensing Division
P.O. Box 30254
Lansing, MI 48909

Michigan Department of Licensing and Regulatory Affairs
Bureau of Construction Codes
Plumbing Contractor License

DANIEL WEISS -
400 RENAISSANCE CENTER STE 2170
DETROIT, MI 48243

License No:
8000666

Expiration Date:
04/30/2022

DANIEL WEISS
400 RENAISSANCE CENTER STE 2170
DETROIT, MI 48243

GRETCHEN WHITMER
Governor

Michigan Department of Licensing and Regulatory Affairs
Bureau of Construction Codes
Plumbing Contractor License

N837716

DANIEL WEISS
400 RENAISSANCE CENTER STE 2170
DETROIT, MI 48243

License No.
8000666

Expiration Date:
04/30/2022

This document is duly
issued under the laws of the
State of Michigan

**Certification Regarding
Debarment, Suspension, and Other Responsibility Matters**

The prospective participant certifies, to the best of its knowledge and belief, that it and its principals:

- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in transactions under federal nonprocurement programs by any federal department or agency;
- (2) Have not, within the three year period preceding the proposal, had one or more public transactions (federal, state, or local) terminated for cause or default; and
- (3) Are not presently indicted or otherwise criminally or civilly charged by a government entity (federal, state, or local) and have not, within the three year period preceding the proposal, been convicted of or had a civil judgment rendered against it:
 - (a) For the commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public transaction (federal, state, or local) or a procurement contract under such a public transaction;
 - (b) For the violation of federal or state antitrust statutes, including those proscribing price fixing between competitors, the allocation of customers between competitors, or bid rigging; or
 - (c) For the commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.

I understand that a false statement on this certification may be grounds for the rejection of this proposal or the termination of the award. In addition, under 18 U.S.C. §1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to five years, or both.

Kevin Markhardt, Vice President

Name and Title of Authorized Representative

Weiss Construction Co. LLC

Name of Participant Agency or Firm



Signature of Authorized Representative

January 27, 2022

Date

I am unable to certify to the above statement. Attached is my explanation.

Contractor's OCIP Acknowledgement Form

Macomb County Public Works

Owner Controlled Insurance Program (OCIP) Terms and Conditions

I acknowledge that I have read and fully understand the provisions of the Owner Controlled Insurance Program (OCIP) that the Owner has in place for this Project. Under the OCIP the Owner is providing insurance coverage for the protection of the enrolled contractors and subcontractors for their work performed at the project site. I further agree to enroll in the OCIP, working through the administrator of the program, Meadowbrook Insurance Agency (MIA).

Some policies of insurance will be provided by the Owner and some by the Contractor/Subcontractor.

Owner Provided Insurance

The following insurance policies (detailed in General Conditions, Supplemental Conditions and Appendix A) are provided by the Owner for the protection of the contractors and subcontractors enrolled in and performing work at the project site.

1. Comprehensive General Liability
2. Railroad Protective Liability (if required)
3. Excess Liability
4. Builders Risk / Installation Floater
5. Environmental Liability

Note: there is no requirement to provide an Owner Contractors Protective (OCP) insurance policy for this project (and therefore the cost for this coverage must be excluded from the bid)

I hereby attest that I have deducted the cost of the Owner provided insurance (items 1 through 5 above) from my base bid and will deduct the cost of these policies from change orders that may become necessary.

Note: Meadowbrook Insurance Agency has the right to audit the bids (including the contractors insurance policies) to confirm that the Owner provided insurance has been deducted from your bid. It is further understood the Owner has the right to execute a deductive Change Order to remove the cost of the Owner provided insurance - if it is determined that this cost was included in your bid.

Contractor and Subcontractor Provided Insurance

The following insurance policies will be provided by the Contractor and Sub-Contractors (detailed in General Conditions, Supplemental Conditions and Appendix A) at your cost and the cost must be included in your base bid and change orders:

1. Workers Compensation
2. Employers Liability
3. Automobile Liability
4. Umbrella Excess of Auto & Employers Liability
5. Contractor's Professional Liability
6. Unmanned Aerial Vehicle (Drone) Liability, if applicable
7. Contractors Tools and Equipment
8. Other Insurance as may be deemed necessary for the project by the Contractor/Subcontractor

I hereby attest that I have included the cost of the Contractor and Subcontractor provided insurance (items 1 through 8 above) in my base bid and will include the cost of these policies in change orders that may become necessary.

I hereby certify that I have read this document and understand and agree to the terms and content.

Note: Failure to provide this form at the date /time of your bid will make your bid non-conforming and could result in the rejection of your bid.

The successful Contractor prior to award shall require this form also be completed and executed by each of their subcontractors and provided to the Owner prior to beginning work on the job site.



Signature

January 27, 2022

Date

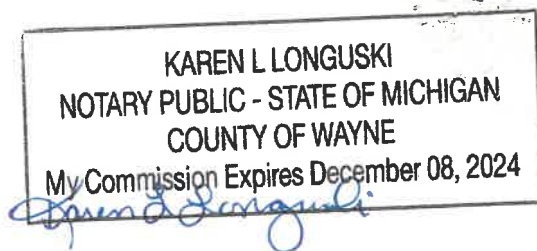
Kevin Markhardt, Vice President

Printed Name

Weiss Construction Co. LLC

Name of Contractor

AFFIX NOTARY STAMP HERE



Proposal

Construction Manager
At-Risk Services

For The 8-1/2 Mile Relief
Drain Drainage District
Nine Mile Pump Station

Weiss Construction Co., LLC

41001 Grand River Ave
Novi, Michigan 48375

www.Weiss-Construction.com



Prepared For:

Macomb County Public Works Office

21777 Dunham Road
Clinton Township, MI 48036

February 4th, 2022

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DWS-825 / 011175 / Haggerty Pumping Station Design Build Contract



7/2/2002 8:39:12 AM - HPBS - Wall Construction - DC

Wall Formwork Installation - View From Southeast Looking Northwest



Executive Summary

Project Understanding

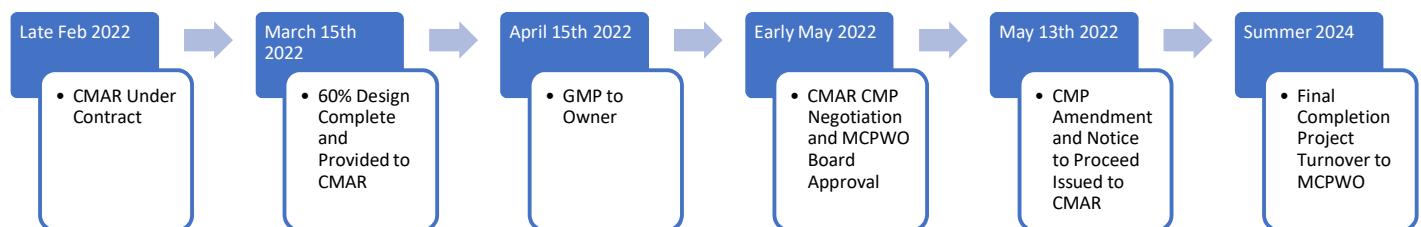
The existing Nine Mile Drain was constructed in 1926. The drain collects wastewater from Eastpointe and St. Clair Shores and under dry weather discharges to the Jefferson Interceptor by gravity. During wet weather, the flow rate exceeds the capacity of the Jefferson Interceptor and wet weather flow can be diverted to either the Chapaton Pump Station or sent through the Nine Mile Emergency Bypass to enter the basin by gravity or overflow to Lake St. Clair.

In order to free-up capacity at Chapaton Pump Station and to disconnect the Nine Mile Emergency Bypass from the impact of high Lake St. Clair levels, the proposed Nine Mile Pump Station will be used to deliver wastewater from the Nine Mile Drain directly to the Chapaton RTB. The preliminary basis of design calls for the construction of a new 390 MGD pumping station. The inlet and wet well sections of the station will be constructed immediately between the South wall of the RTB and the northern most wall of the existing Nine Mile emergency bypass. The remaining portion of the pump station will be constructed directly over the existing roof of the RTB.

The major project components consist of the following elements:

- Reinforced Concrete Wet Well & Screening Structure constructed within a 40-foot deep braced excavation. The earth retention system is currently designed as a reinforced concrete tangent pile wall with internal bracing.
- Four Mixed Flow Vertical turbine pumps and two Submersible pumps with a combined pumping capacity of 750 cfs plus the flushing pumps.
- Screening facility consisting of front cleaned indexing bar screens.
- An activated Carbon Order Control System.
- Building super structure and related architectural improvements. The superstructure is currently designed as load bearing CMU/face brick walls with interior steel columns, girders and steel bar joists supporting a metal deck overlain by a single ply roof.
- Electrical and HVAC improvements for the New Pump Station Building, including two new generators.
- Pump Station Inlet /Outlet concrete box culvert connections for the existing 9 Mile Bypass as well as construction of a new "South" bypass box to replace a section of the Northern Most existing box.
- Modifications with the existing RTB including interior baffle/partition wall construction, flushing lane concrete work, as well as improvements to the basin flushing pipe system.
- Site Improvements consisting of concrete pavement replacement, landscaping improvements, site restoration and other surface improvements.
- Road Restoration of East Nine-Mile Road and maintaining access to both the boat-launch and parking.

The project will be delivered using the Construction Manager At-Risk (CMaR) approach for preconstruction and construction phase services. We understand the Owners current schedule projections for the CMAR are as follows:



Weiss Team Differentiators

Based on our review of the bridging documents, the overall project will be quite challenging considering the schedule given in the RFP. The preconstruction phase for the CMAR will be very short: two weeks of design coordination followed by 4 weeks of GMP price and schedule development. The two year construction phase is also aggressive considering the amount of work to be constructed, the linear sequencing and phasing requirements, as well as the wet weather impact considerations for the RTB interior work.

Complex projects with aggressive schedules are certainly achievable, however, they require a high degree of collaboration and a strong working relationship between the Owner, Engineer, and the CMAR. For this project we see a collaborative approach being very important, particularly for permits and long lead equipment. Successfully completing challenging and difficult projects under aggressive completions schedules are nothing new to Weiss Construction. In fact, these are the very types of projects our company actively seeks out and specializes in. They afford us the opportunity to leverage our considerable experience with water and wastewater construction.

Weiss Construction appreciates the opportunity to submit our proposal to the MCPWO for Nine Mile Pump Station Project. We trust you will consider our proposal to be best in class and recognized our team as uniquely qualified to assist in the design and lead the build of a new facility that exceeds all your expectations. We believe the more noteworthy components of our proposal that will set us apart from the other proposal teams can be summarized as follows:



The Weiss CMAR Team has considerable experience completing project similar to the Nine Mile Pump Station because **water and wastewater construction is all that we do**. Weiss Construction and our electrical / I&C partner, Rotor Electric, have both been working in MCPWO facilities for over five decades and both served as subcontractors for the original construction of the Chapaton facility. With over 100 years of combined water and wastewater experience, our team is in a unique position to provide the MCPWO the full benefits of our project specific work experience and the strong business relationships our companies have developed over the years with our material and equipment suppliers, subcontractors and the trade unions we partner with to complete our work. We trust these relationships will benefit the success of this project and better help ensure that all required resources will be on hand when necessary to support the project goals and outcomes.



Unlike many other General Contractors serving the local water/waste-water market, **Weiss Construction self performs much of its own work**. This gives us the ability to better assess subcontractor price proposals when evaluating best value. All subcontracting and bid package awards will be based on a transparent and open book “best value” approach. For this project we expect to self-perform the civil/site, selective demolition, grading/earthwork, structural concrete and process/mechanical trade work, provided our proposal is deemed best value for the owner. By greatly reducing the number of subcontractors involved in the build process, we are better able to control the pace of the construction process and quickly adjustment our operations to avoid unnecessary work sequence delays when unexpected issues arise.



Having focused solely on water wastewater projects for over five decades, **Weiss Construction understands the critical importance of proper work planning** to determine the most suitable scheduling for all installations and connections requiring equipment/system shut-downs. Our proven track record speaks to our considerable knowledge on the means, methods and procedures that must be employed to ensure that operation continuity is maintained. Our recently completed work for the Chapaton & Martin RTB Disinfection Improvements project (WWS-2020-009) and the Metering Facility Improvements project (WWS-2020-003) are further evidence of our collaborative approach to completing our work with minimal impact on MCPWO operations.

The internal management team that Weiss Construction will assign to this project is uniquely qualified for a project of this type. Our team members have over 100 years of combined experience related directly to water and wastewater infrastructure construction and renovation. Our team members, their respective project roles and their years of experience are presented as follows:

Weiss Team

<u>Name</u>	<u>Project Role</u>	<u>Years Experience</u>
Kevin Markhardt	Project Executive	35 years
Kevin Clarey	Project Manager	25 Years
Joe Mulville	Estimating/Constructability/VE	33 Years
Nathan Robinson	General Superintendent	11 Years



Photo No. 444



Firm Contact Information and Firm Overview

2.1 Contact Information

Weiss Construction's designated representative for this RFP is as follows:

Name: Kevin Markhardt
 Title: Vice President
 Address: 41001 W Grand River Ave, Novi MI 48375
 Phone: 313-567-4500
 Email: kmarkhardt@weiss-construction.com

2.2 Corporate Overview

Weiss Construction is a third-generation family-owned business that was incorporated in the State of Michigan in 1969. Since our founding over 50 years ago, Weiss Construction has become a recognized leader in Michigan for the construction and renovation of water and wastewater treatment, storage, pumping, and conveyance facilities. In that time, we have established deep ties with the local utilities and government organizations we serve, as well as the labor unions we partner with. Weiss Construction takes enormous pride in its commitment to excellence, the quality of our work and the high degree of customer satisfaction we consistently provide our clients.

Our corporate headquarters are located in Novi, Michigan and we maintain regional offices in Fort Myers, FL and Ashton, NE. Our regional offices operate under the registered business name of Public Works Constructors (PWC). Weiss Construction, PWC, and our heavy equipment holding company, DSW Equipment, are all held by the common ownership of the Weiss Group of Companies.

All work related to this project will be staffed and supported from our corporate headquarters in Novi Michigan. Our Michigan office has a staff of approximately two dozen project managers, estimators, superintendents, project engineers and related office support staff. Additionally, Weiss Construction is a union contractor that maintains signatory labor agreements with the Laborers, Operators, Finishers, Carpenters, and Plumbers trade unions. Depending, on the time of year and our workload, our trade labor pool typically varies between 50 to over 100 tradesmen on the payroll at any given time.





Previous Experience

Previous Experience with Similar Projects

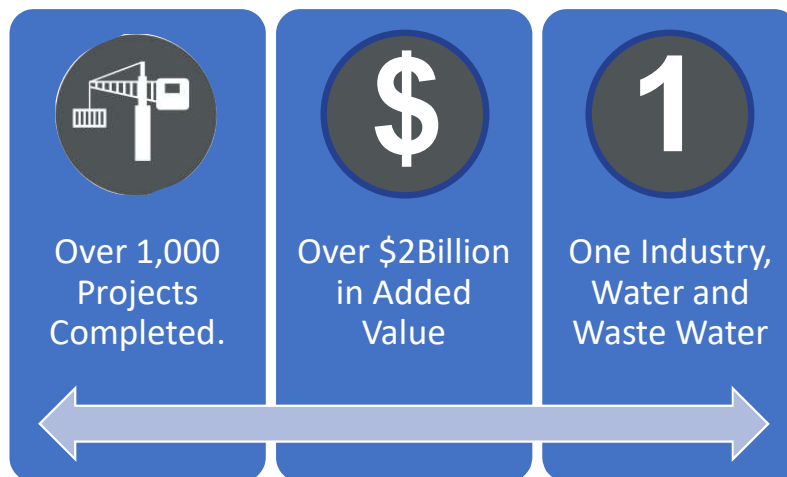
Unlike much of our competition, Weiss Construction is not your typical “jack of all trades” general contractor that builds a school or hospital one day, a manufacturing facility the next and is only occasionally involved with the construction of water and wastewater facilities. At Weiss Construction, water and waste water infrastructure is all that we do.

Our company experience specific to pumping stations and retention treatment basin (RTB) construction and renovation is significant. Over the years we have completed many projects similar in nature and environment to the Nine Mile Pump Station. At this time, we are currently have ten pumping station and/or RTB projects under construction. Additionally, Weiss Construction’s predecessor General Pipe, worked as a mechanical sub contractor on the original construction of the Chapaton Pump Station and we just completed the Chapaton / Martin RTB disinfection Improvements for the Drainage District. As such, not only does Weiss Construction have considerable experience with similar type projects but we also have recent project experience specific to the Chapaton Pump Station / RTB facility.

The following section of this proposal presents our companies experience on recently completed projects with similar work scope and working conditions to that of the Nine Mile Pump Station project.

Weiss By-The-Numbers

Since our founding in 1969, Weiss Construction has achieved:



Fairview Sewage Pumping Station Improvements

GLWA

Owner:

Great Lakes Water Authority

Completion Date:

-In Progress-
Substantial - March 2022

Lead Single Point at Weiss:

Kevin Clarey
Sr. Project Manager
KClarey@Weiss-Construction.com

Client Reference:

GLWA
Grant Gartrell
Director of Engineering
735 Randolph St
Detroit, MI 48226
Grant.Gartrell@GLWater.org

Project Budget

Initial: \$28,891,000.00
Final: \$32,545,540.00
Variance: 12.65%



Description:

The Fairview Pumping Station (FSPS) Project consists of the complete renovation of the existing Pumping Station including all the mechanical, architectural, and electrical systems. The work had to be completed without a reduction to pump station capacity. As such, the work had to be completed using a temporary sewage bypass.

The temporary bypass system consisted of 7 vertical turbine pumps capable of pumping over 200 MGD. This is one of the largest temporary bypass pumping systems ever undertaken in North America. Only after extensive testing and coordination with the Great Lakes Water Authority (GLWA) we were able to start the renovation process.

Renovation was a challenging process for a few reasons; the biggest was a majority of the renovation work was in the basement of the existing pump station that only had two access points to remove or lower debris or materials into the basement. The existing pump station consisted of four (4) pumps and it is being replaced with seven (7) new pumps. To achieve this extensive concrete demolition in the basement had to be completed to make room for the new pump layout.

The new FSPS will lift combined sewage from the upper to the lower Detroit River Interceptor (DRI) for conveyance to the Water Resource Recovery Facility (WRRF) where it will be treated and discharged into the Detroit River. Each sanitary pump discharges via a separate riser pipe to its designated discharge chamber, each pumps flow will be calculated in the control system based off the pumps station and discharge pressures.

Please see the next page for the continuation

Fairview Sewage Pumping Station Improvements

GLWA



Continued from the previous page

Project Size:

- (7) 40 MGD constant speed dry-pit submersible pumps.
- (1) 2 MGD constant speed dewatering pump.
- 40" and 32" knife gates.
- 10' Stainless steel Slide gates.
- 2,500 kVA transformers, Motor Control Center, Reduced Voltage Starters, Battery Rack, 1,250 kW Standby Generator.
- 1,500 MBTU Boilers, 8,300 CFM Make-Up Air Units, 7,250 CFM AC Unit.

Fairview Pump Station

Bypass Project Challenges



Bypass Challenges and Solutions:

Challenge:

The original design called for us to first install a new slide gate in the inlet shaft just outside of the pump station before the existing pump station was taken off line. However, due to heavy rainfall, inlet well water infiltration exceeded the expected 10 MGD, limiting our ability access the inlet shaft and install the new gate, therefore extending the project, as the slide gate was on the critical path.

Solution:

Working with the owner, we designed a solution where we could safely and quickly remove the existing, non-functional gate and fabricate stop logs that would fit in the frame of the old slide gate frame. The new slide gate still would have to be installed, but since the station would be off line by the means of the stop logs, it could be postponed without further delaying the project.

Challenge:

At the end of the project, when water levels were lower, we attempted to install new channels for stop logs, in the inlet shaft, upstream of the slide gate. However, pre-work inspection efforts revealed the bottom of the inlet shaft to be structurally deteriorated providing a path for influent water to short circuit the stop log frame.

Solution:

Working with the owner and design engineer, we came up with a solution to affix metal channels, perpendicular to the stop log frame, to structurally-sound portions of the inlet shaft, creating a solid frame work to hold the stop logs and allowing us to repair the deteriorated sections.

Please see the next page for the continuation

Fairview Pump Station

Bypass Project Challenges



Continued from the previous page

Challenge:

This pump station is rated for a capacity of 120 mgd during dry weather and 240 mgd during wet weather. Originally, the project was bid requiring a dry weather bypass of 120 mgd, with existing upstream infrastructure providing additional short term storage. After award of this contract, the owner and engineering team increased the bypass requirements to 200 MGD. This doubled the number of vertical turbine pumps that had to be housed within a very small temporary wet well structure.

Solution:

Weiss Construction worked with our bypass subcontractor to develop a configuration of pumps that would not only fit, but was adequately offset to prevent inefficiencies caused by the vortices in the flow stream. The end result was the successful implementation of one of the largest bypass systems ever attempted in North America.

The bypass system was successfully in place for 18 months and was just removed as the pump station is now back online.

Fairview Pump Station

Mobility Project Challenges



Project Challenges:

The existing facility was erected with one bridge crane to service all equipment in the pump station. As most of the equipment and piping within the facility was being replaced, the bridge crane was needed consistently to keep the project moving. We had a valid concern that the bridge crane would be the limiting factor for all productivity on the job.

Solutions:

To boost productivity on the project and not rely on one single bridge crane, we erected a smaller gantry crane, with a beam height significantly lower than the bridge crane above it. This way, with some simple coordination, we could raise or lower multiple pieces from grade into the dry well at one time, boosting efficiency on the project.

Master Pump Station 306

Collier County (FL)

Owner:

Collier County Public
Utilities Department:
Engineering & Project
Management Division.

Completion Date:

Final: July 2021

Lead Single Point at Weiss:

Brett Carner
Area Manager
BCarner@Weiss-Construction.com

Client Reference:

AECOM Water
Dawn M. Jakiela, P.E.
General Engineering
Manager
4415 Metro Parkway
Suite 404
Fort Myers, Florida 33916
Dawn.Jakiela@AECOM.com

Project Budget

Initial: \$10,719,008.00
Final: \$10,779,000.00
Variance: .05%



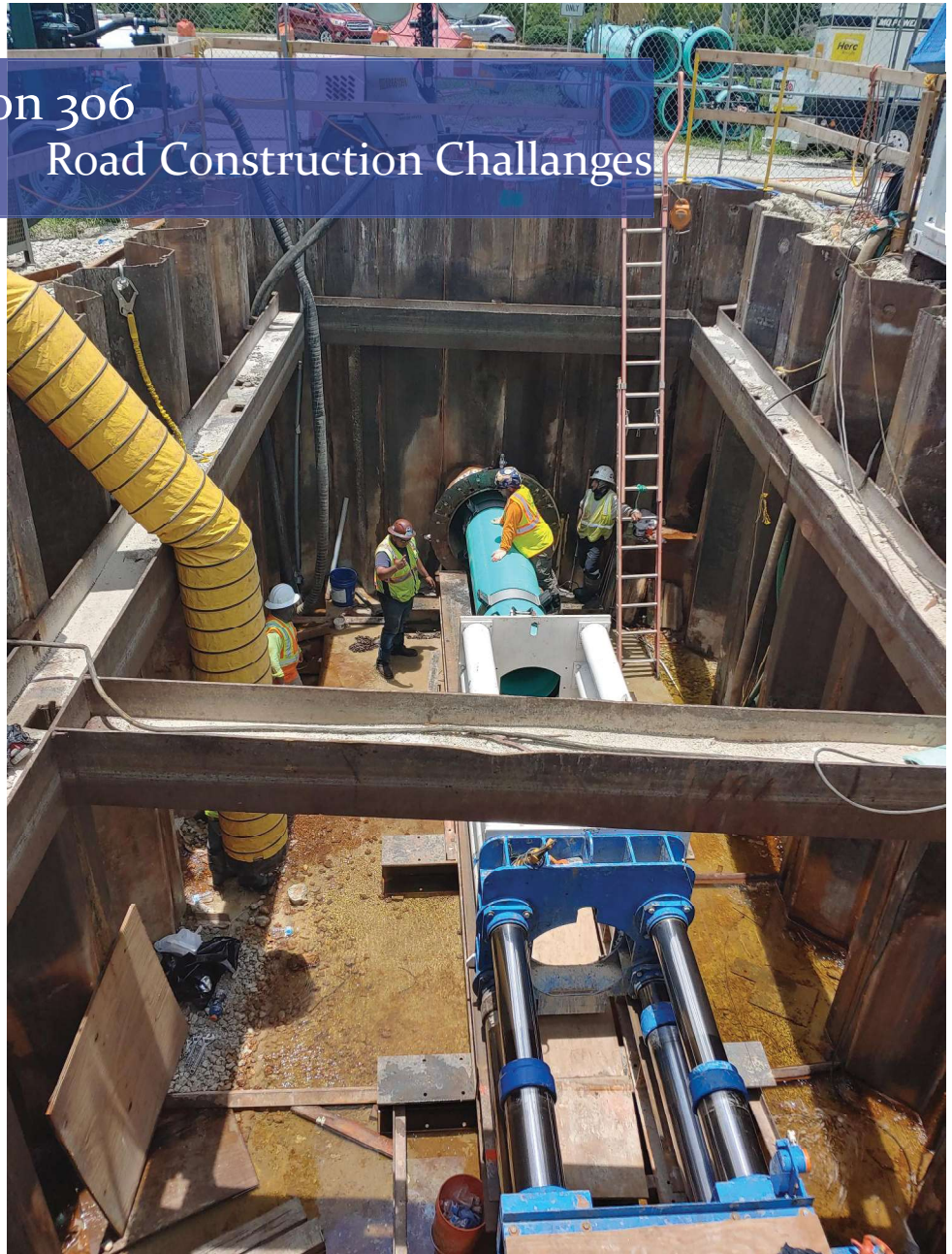
Description:

The Master Pump Station 306 project is part of the County's utility infrastructure improvement program. It includes the construction of a new master pump station, replacing the old MPS 306 which was 35 years old, and its mechanical and electrical components had reached the end of their useful lives. The project increases capacity of the station from 7.5 million gallons per day (MGD) to 15.8 MGD. Master Pump Station 306 provides greater reliability, flexibility, and performance to the County's wastewater system.

Project Size:

- (3) Electric Vaughan 100 HP Chopper Pumps rated at 4000 GPM
- (3) Backup -Thompson Diesel Centrifugal Pumps rated at 4500 GPM
- (1) 5 Ton Bridge Crane
- (1) ea 24" BFV
- (12) ea 24" Plug Valves
- (7) ea 18" Plug Valves
- (2) ea 20" Plug Valves
- (13) ea Check Valves 8"-24"
- (28) Ea – 8" thru 16" Plug and Check Valves
- (1) ea 6,000 sqft masonry building.

Master Pump Station 306 Road Construction Challenges



Project Challenges:

The original plans called for a 200' long forcemain to be installed utilizing the jack and bore method. The pipeline would cross beneath US Rt. 41 in Naples Florida, which carries 20,000 vehicles per hour.

Solutions:

During contract negotiations, Weiss Construction communicated concerns regarding ground conditions and the potential for settlement from the jack and bore operation. The county, accepted Weiss' recommendation to use micro tunneling methods to install the forcemain. The forcemain was successfully installed with no measurable roadway settlement and with only a minimal increase in overall project cost.

Dequindre Pump Station Rehabilitation Oakland County WRC

Owner:

Oakland County Water
Resources Commissioner

Completion Date:

Final - September 2021

Lead Single Point at Weiss:

Kevin Clarey
Sr. Project Manager
KClarey@Weiss-Construction.com

Client Reference:

Gary Nigro, PE
Chief Engineer
Oakland County Water
Resources Commissioner
One Public Works Drive
Bldg 95 W
Waterford, MI 48328-1907
NigroG@OakGov.org

Project Budget

Initial: \$5,845,000.00
Final: \$6,107,854.11
Variance: 4.49%



Description:

The Dequindre Pump Station Rehabilitation (Dequindre) was a complete retrofit of an existing sanitary sewer lift station. The work was sequenced so the station remained operational at all times.

The work at Dequindre consisted of 6 Pumps, 90 HP and 6,000gpm and 1 dewatering pump 1,4000 gpm. The new pumps are run off new VFD's fed from a new MCC. Pumps include new instrumentation including vibration monitoring which was wired and integrated onto the customers' existing SCADA system. The pumps were replaced in stages, as two pumps, either new or existing, were always operational.

Downstream of the pumps all piping was replaced with 18" through 42" ductile iron piping. New pneumatic actuated knife gate valves and plug valves were added. A new stationary bar screen was added, this was installed with the existing bar screen in place as to not hinder operation of the facility.

To better serve the facility, a new 300 KW Kohler generator was installed with a new ATS and MTS. To serve the generator the natural gas service was upgraded, and interior gas piping modified. Other MEP upgrades include a new 5,600 CFM Makeup air unit with new downstream ductwork, all new facility interior lighting and lighting controls, and new split system air conditioner.

As upgrades to the mechanical and process systems continued, upgrades to the physical facility were performed. A new canopy was added which included structural steel, decking, and a new standing seam metal roof. Masonry modification, including tuck pointing, were included in this project. At the end of the project all floors, walls, and pipe received new paint and coatings.

Please see the next page for the continuation

Dequindre Pump Station Rehabilitation Oakland County WRC



Continued from the previous page

Project Size:

- (6) Pumps 90HP 6,000 gpm (8.6 MGD)
- (1) Dewatering pump.
- (3) 10" RPZ.
- (1) Make-up air unit 5,600 cfm.
- (1) Stationary Bar Screen.
- (6) 24" Knife Gates, (6) 18" Knife Gates, and (1) 10" Knife gate.
- (7) 18" Plug Valves.
- (1) 300 KW Natural Gas Generator.
- (1) 16" Basket Strainer.

Lift Stations #1 and #3 Rehabilitation Township of West Bloomfield

Owner:

Charter Township of West Bloomfield, Water & Sewer Department

Completion Date:

Final - October 2021

Lead Single Point at Weiss:

Kevin Markhardt
Vice President
KMarkhardt@Weiss-Construction.com

Client Reference:

Ed Haapala
Utilities Director
Township of West Bloomfield
4550 Walnut Lake Rd
West Bloomfield, MI 483237
EHaapala@WBTownship.org

Project Budget

Initial: \$3,963,650.00
Final: \$4,562,298.75
Variance: 15.10%



Description:

This project involved the construction of (2) new 40ft deep lift stations, (2) new control buildings to house instrumentation, controls, and discharge piping along with installation of yard piping consisting of ductile iron pipe, concrete storm and sewer pipe as well as back up generator, air purification units, HVAC fans/Louvers. The cornerstone equipment of the project consisted of (6) Vaughn Chopper Pump & Rotamix assemblies with VFD's.

Project Size:

- (3) 25 HP Vaughn Chopper Pumps
- (3) 20 HP Vaughn Chopper Pumps
- (2) 12" Rosemont Magnetic Flow Meters
- (6) Square-D VFD's
- (4) 12" Plug Valves
- (8) 8" Plug Valves

Ford Road Booster Station Improvements

GLWA

Owner:

Great Lakes Water Authority

Completion Date:

Substantial - April 2021

Lead Single Point at Weiss:

Rick Tagliaferri

Sr. Project Manager

RTagliaferri@Weiss-Construction.com

Client Reference:

GLWA

Eric Kramp, Management Professional

735 Randolph St
Detroit, MI 48226

Eric.Kramp@GLWater.org

Project Budget

Initial: \$2,530,866.00

Final: \$2,575,656.80

Variance: 1.77%



Description:

Removed and replaced butterfly valves, ball valves, cone valves, and electric actuators through out the existing operational water booster pump station, through multiple coordinated shut downs. Valves ranged in sizes from 12" - 24". All work occurred while station was operational without disruption to end users.

Project Size:

- Replace (1) 24" and (9) 18" Triple Offset Butterfly's.
- Replace (1) 24" and (9) 18" Metal Seated Ball Valves w/ electric actuators.
- Replace (1) 16" Cone Valve and actuator.
- Replace (1) 24" and (1) 16" Gate Valves.
- Remove one 24" cone valve and replace with a 24" plunger valve.
- Install a new 75 kw generator with new ATS and MCC modifications.
- Miscellaneous electrical, foundation, and pipe support work.
- I&C installation and integration.

Ford Road Booster Station Improvements Project Challenges



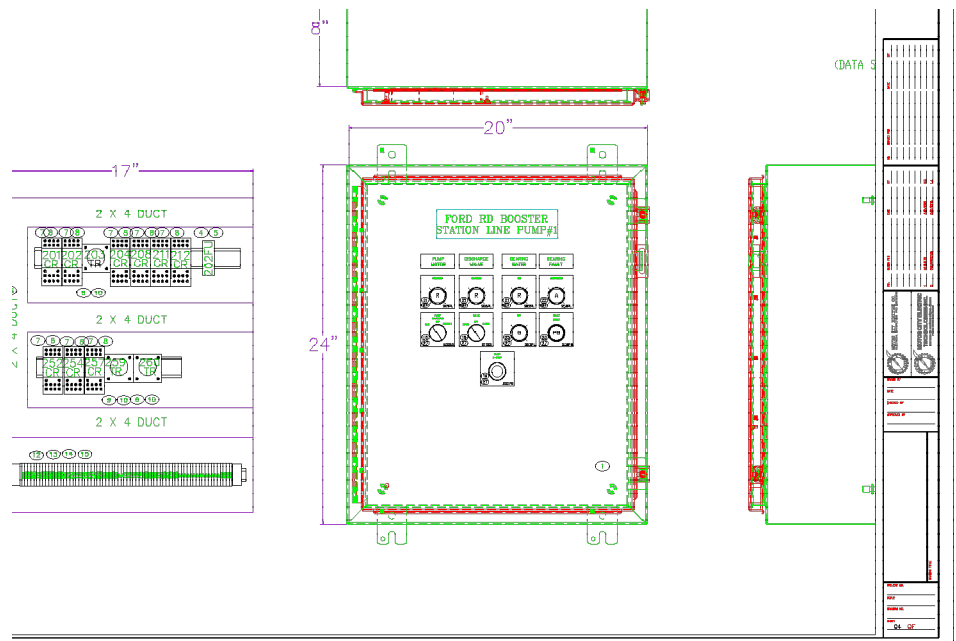
Project Challenge:

This project was bid as traditional design/bid/build contract. After award of the project, the Owner directed us not to proceed with the I&C portion of the bid until a new solution could be developed.

Solutions:

Weiss teamed up with our electrical subcontractor, Rotor Electric and delivered the I&C portion of this project as a design build. The design build team was able to offset some of the redundant design costs with value engineering of panel sizes and locations. The design team also worked closely with the owner to deliver control logic that was similar to what their technicians were used to and best suited the performance of the plant. Under this delivery arrangement, the owner was fully engaged in the design process, which helped compress the over project schedule.

As the revised design progressed, the long lead valves and actuators were procured. By having procurement occurring in tandem with design, the additional I&C scope had little effect on the critical path of the project.



Chapaton RTB and Martin RTB Disinfection Improvements 8-1/2 Mile Relief Drain Drainage District

Owner:

8- 1/2 Mile Relief Drain
Drainage District

Completion Date:

Substantial - July 2021

Lead Single Point at Weiss:

Josh Wittenbach
Project Manager

JWittenbach@Weiss-Construction.com

Client Reference:

Steven Wagner, PE
Engineer II
8-1/2 Mile Relief Drainage
District
21777 Dunham Road
Clinton Township, MI 48036
Steven.Wagner@Macomb-Gov.org

Project Budget

Initial: \$955,925.00

Final: \$951,390.82

Variance: 0.5%



Description:

This project included upgrades at the Chapaton Retention Treatment Basin and the Martin Retention Treatment Basin, specifically, removal of existing disinfection equipment and installation of seven (7) Owner furnished feed pumps, replacement of approximately 7,000 LFT of disinfection piping within the Chapaton RTB, and replacement of approximately 5,000 LFT of sampling piping within the Chapaton RTB, removal and replacement of all mechanical room disinfection feed piping, miscellaneous piping, electrical work, and equipment.

The work within the building and basin was completed, such that it could be made operational if a wet weather event were to occur. This was accomplished by running the new piping within the basin in parallel with the existing and strategic phasing of piping within the upper mechanical rooms.

Project Size:

- (7) Peristaltic Hose Pumps (furnished by owner)
- (3) 1 HP Recirculation Pumps
- (1) 10 HP Air Compressor
- (1) 3" Magnetic Flow Meter



Project Team Overview and Experience

Team Overview & Experience

Since our founding over 50 years ago, Weiss Construction's market niche has always focused on water and wastewater infrastructure. As a company, it all that we do. Likewise, the professionals that work for us all have strong backgrounds in self-performed water and wastewater construction and renovation.

Weiss' project team has been assembled to bring the very best project candidates and with professional expertise that is aligned specifically to meet the needs and objectives of this project. This will allow us to leverage the expertise of our local staff, local resources, and local experience to ensure we are fully responsive to the needs of Macomb County and the Tetra Tech / Fishbeck engineering team.

The principle members of our CMAR team are shown on the organization chart presented on the following page. The relevant experience and qualifications of our team members are presented in the corporate resumes that follow the organization chart. A brief summary of the roles and responsibilities that each team member will have for this project is presented as follows:

25
Years

Kevin Clarey, Project Manager

As Project Manager, Kevin will serve as the primary "boots on the ground" point of contact for Weiss Construction and will have overall profit and loss responsibility. Kevin will provide day to day leadership for the CMAR team and will be responsible for communications, performance, and implementation of preconstruction and construction services. He will oversee the management of the CMAR team and its performing activities to control cost, schedule and project quality. Kevin will also serve as the project safety officer during the construction phase.

35
Years

Kevin Markhardt, Principle in Charge

In his role as Principal-in-Charge, Mr. Markhardt will provide corporate-level management, direction and supervision of the CMAR team for Weiss.

33
Years

Joseph Mulville, Estimating and VE

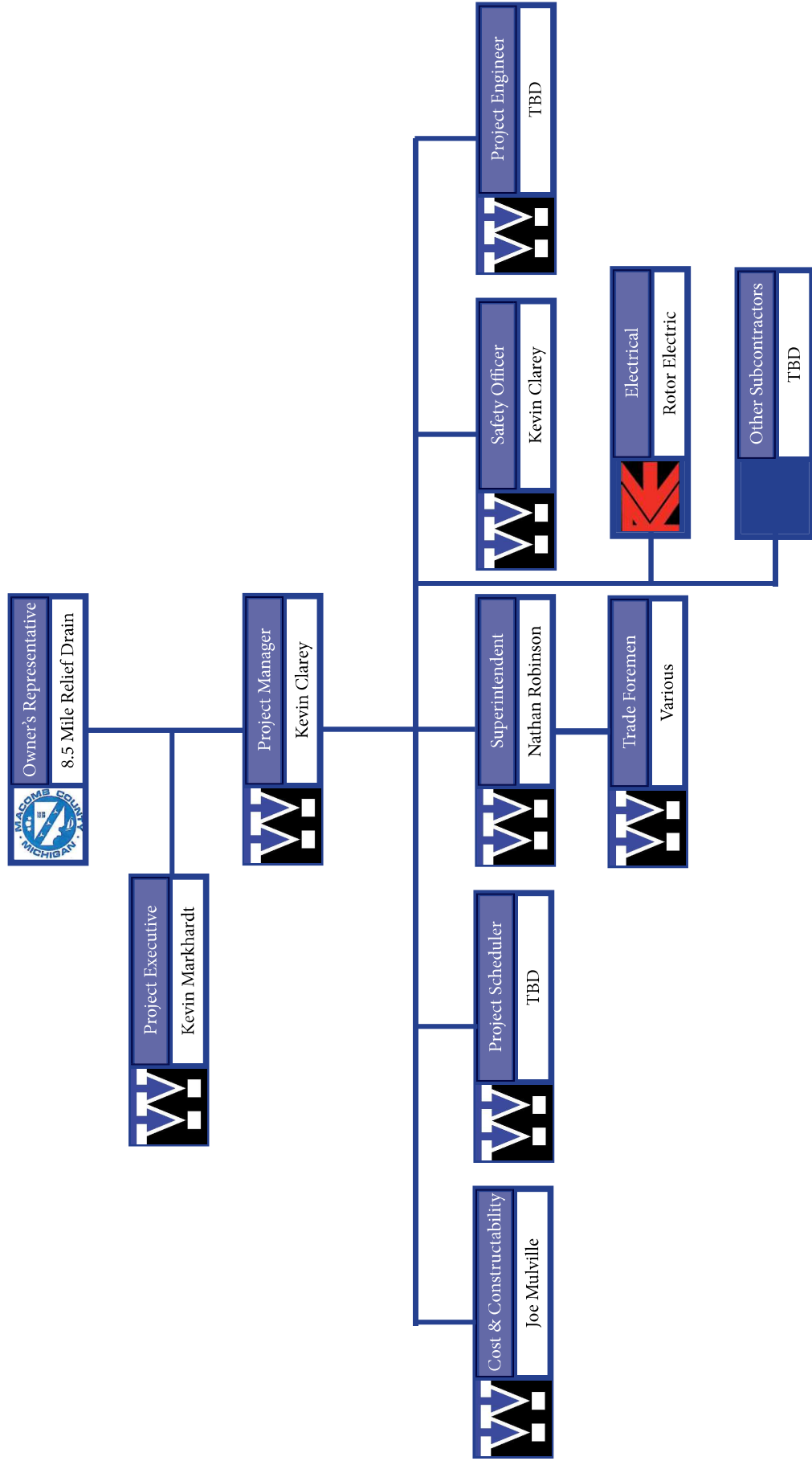
For this project, Mr. Mulville will be provide corporate level supervision of the estimating and engineering resources employed by Weiss during the pre-construction phase. This will include overseeing all value engineering, long lead procurement studies, constructability evaluations, bid package development, and any other services and evaluations that may be required to assist the engineer during the preconstruction phase. Additionally, Mr. Mulville will have overall responsibility for GMP development and subsequent GMP amendment negotiation.

11
Years

Nathan Robinson, Superintendent

In his role as superintendent, Nathan will be responsible for providing leadership and jobsite supervision and coordination for all subcontractors and self-performed trade labor. Additionally, Mr. Robinson will work closely with our project manager to maintain project schedule and jobsite safety considerations.

Project Team Organizational Chart





Kevin Clarey
Project Manager

Project Role and Profile

Kevin is a seasoned construction professional with over 22 years of experience in water and wastewater systems construction. In addition to his role as a Senior Project Manager with Weiss Construction, Kevin also serves as our corporate Safety Director. For this project, Kevin will serve as a Project Manager and will be responsible for implementation and delivery of the project to MCPWO.

Relevant Experience

Fairview Pump Station Rehabilitation – Detroit MI

Southwest Water Treatment Plant Chlorine and Phosphoric Acid Improvements – Allen Park MI

Pontiac WWTP (WRC Facility) CSO Sewer Replacement Project – Pontiac MI

Springwell's Water Treatment Plant Rehabilitation – Dearborn MI

Ann Arbor Wastewater Treatment Plant – Ann Arbor MI

Dearborn CSO Contract No. 7 – Dearborn MI

Dearborn CSO Contract No. 6 – Dearborn MI

Dearborn CSO Contract No. 2 – Dearborn MI

PC-674 Connors Station and Fox Creek Backwater Gate Rebuilding Rehabilitation – Detroit MI

CM-2006 Renovation of Venture Meter Pits at Springwell's Water Treatment Plant – Dearborn MI

DWS-820 Franklin Pumping Station Improvement – Franklin MI

Wayne County Storm Water Pump Station 6B – Romulus MI

Education

B.S. Construction Management – Eastern Michigan University

Training & Certifications

OSHA 30-Hour Construction Safety

OSHA Confined Space

OSHA Silica Standard

OSHA Asbestos in Construction

OSHA Fall Protection -Competent Person

OSHA Lead Awareness in Construction

OSHA Rigging Safety Supervisor

OSHA Excavation Competent Person

Red Cross CPR and First Aid Training



Kevin Markhardt

Principle in Charge

Project Role and Profile

Kevin has over 33 years of experience in the heavy civil construction industry. As Vice President and General Manager of Weiss Construction, Kevin is responsible for the executive leadership and corporate oversight of both the long-term direction of the company and its day to day operations. For the this project, Kevin will serve as the Principle in Charge responsible for interfacing with MCPWO executive leadership and ensuring that a high degree of performance and quality is maintained by the project team.

Relevant Experience

Black River Wastewater Treatment Plant Expansion – Baltimore MD

Blue Plains Advanced Wastewater Treatment Facility Contracts 1 & 1C– Washington DC

Anacostia Wet Weather Facility - Anacostia, MD

Arlington Wet Weather Filter Facility - Arlington, VA

Hopewell Regional Wastewater Treatment Plant Expansion - Hopewell, Virginia

Atlantic Wastewater Treatment Plant Expansion Phase 1 Contract C -Virginia Beach, VA

Salisbury Wastewater Treatment Plant Expansion and Pump Station Upgrades - Salisbury, MD

Flat Creek Water Reclamation Facility Upgrade - Gainesville, GA

Sanford Wastewater Treatment Plant Upgrade - Sanford, ME

R.M. Clayton Water Reclamation Center Expansion – Atlanta, GA

South River Water Reclamation Center Expansion - Atlanta, GA

Waterloo Pump Station – Waterloo IA

McArthur Causeway Bridge Replacement - Miami FLA

Education

Bachelor of Science, Civil Engineering – Iowa State University

Training & Certifications

AGC Supervisory Institute

OSHA 30-hour Construction Safety

Red Cross CPR Training



Joseph Mulville, P.E.

Vice President of Estimating

Project Role and Profile

Joe has over 30 years of experience in the heavy civil construction industry. In addition to serving as Chief Estimator for Weiss Construction and he is responsible for providing executive oversight and mentoring of the company's project managers and other operations personnel. For this project, Joe will be responsible for overseeing all cost estimating and value engineering activities.

Relevant Experience

Reedy River Basin Sewer Tunnel - Greenville, South Carolina
Etobicoke Creek Trunk Sewer - Mississauga Ontario, Canada
South Interceptor Force Main Tunnel - Omaha Nebraska
Government Cut Utility Relocation - Miami Fla
Black River Storage and Conveyance Tunnel - Lorain, OH
Deep Rock Storage Pumping Station - Cleveland, OH
DWSD Pickle Liquor System Improvements – Detroit Michigan
DWSD Rehabilitation of Primary Clarifiers- Detroit Michigan
Dearborn CSO Facilities - Contract Nos. 2, 6 and 7 - Dearborn, MI
Reconstruction of I-75 Freeway - Wayne County Michigan
DWSD In System Storage Devices – Detroit Michigan
DWSD PC-713 Bottom Ash Conveyance System - Detroit Michigan
DWSD PC-740 Primary Clarifiers 13–18 Detroit, Michigan
MDOT Bridge Construction & Renovation Projects – Numerous Locations

Education

Master of Science, Civil Engineering – Wayne State University
Bachelor of Science, Civil Engineering – Michigan Technological University

Training & Certifications

OSHA 40 Hour Hazwop
OSHA 30-Hour Construction Safety
OSHA Confined Space
OSHA Tunnel Rescue Team Supervisor
Red Cross CPR Training



Nathan Robinson
General Superintendent

Project Role and Profile

Nathan is a General Superintendent with 15 years of experience in heavy civil construction. Nathan currently serves as the General Superintendent at Weiss Construction. For this project, Nathan will serve as the General Superintendent of all trades. In this role he will be responsible for all scheduling, safety compliance and trade work oversight of all associated in house and subcontractor work. His focus will be to ensure all work is completed in strict accordance with all safety standards ensuring all work is completed with a high degree of quality to ensure superior long term performance.

Relevant Experience

GLWA Fairview Pump Station Improvements – Detroit Mi

OCWRC Macomb Interceptor Drain Emergency Discharge Chamber Repairs – Macomb Twp.

GLWA Rack & Grit Improvements at the WWTP – Detroit Mi

GLWA Aeration System Improvements – Detroit Mi

OCWRC Auburn WWTP Bar Screen Improvements – Pontiac Mi

OCWRC Dequinder Pump Station Renovation – Madison Heights, Mi

Wayne County Water Treatment 2011 Capital Improvements – Wyandotte Mi

DWSD Southwest Water Treatment – Design Build HVAC & Alum Improvement – Allen Park Mi

OCWRC 66-inch Steel Sewer River Crossing Replacement – Pontiac Mi

MDOT Fort Street Bridge – Tower Replacement – River Rouge, MI

Training & Certifications

Laborer – Local 1191

OSHA 30-Hour Construction Safety

OSHA Confined Space Training Certificate

OSHA Fall Protection Supervisor

OSHA Silica Competent Person

NCCO Certified Signal Person / Instructor

NSC First Aid & CPR Certified

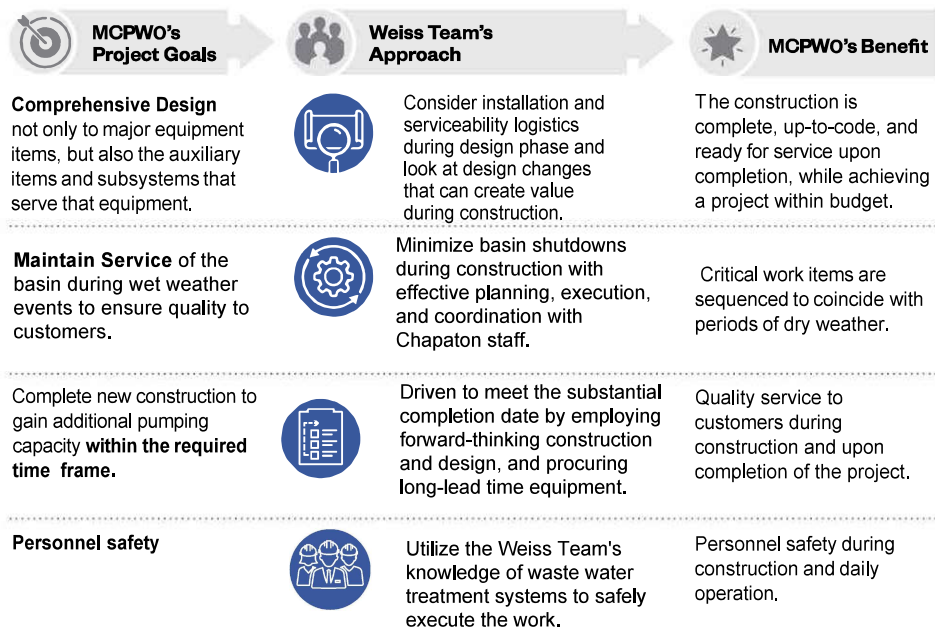


Approach

Project Approach

Preconstruction Phase Services – We understand the pre-construction phase for the CMAR is only expected to be 6 to 8 weeks in duration. This is a relatively short period of time and, as such, the CMAR’s pre-construction involvement will be somewhat limited. In any event, our involvement is expected to include the following services:

- Provide active participation in all design review and other related workshops. We expect these will be conducted on a periodic basis during the preconstruction phase. Our active involvement and participation is considered key for developing a strong understanding of the project and the related critical issues. This approach will help us achieve our fundamental goal of providing collaborative Interaction with MCPWO and their Design Team to help guide the project to a successful and timely completion.
- Provide constructibility and value engineering recommendations when requested.
- Assist the Design Team with O&M and permitting related issues.
- Evaluate and provide recommendations regarding long lead equipment and subcontract procurement issues.
- Project scheduling and analysis to support design and procurement related decisions in support of the overall project schedule. Emphasis will be given to recognizing potential opportunities to promote schedule compression to the extent practical.
- Prepare the guaranteed maximum price (GMP) based on the MCPWO’s 60% Design Documents and negotiation of pricing and terms to meet MCPWO project objectives.



Construction Phase Services – The Construction phase services will commence immediately upon execution of the GMP Amendment. However, much of the planning and the groundwork for our project management plan will be developed during the preconstruction phase. With this approach, once the GMP amendment is approved we will in a strong position to quickly proceed with the actual construction.

In general terms, our services during the construction phase would include the following:

- Provide all necessary project management, cost control, change management, and construction administration and supervision to ensure that the project is completed on time, within budget and meets all the needs and expectations of the MCPWO.

- Provide all necessary documentation and reporting of the construction process. The reporting will include daily field reports as well as monthly updates to the CPM schedule and project budget.
- Develop and administer a cost control and reporting system for all construction phase work. These services will include regular monitoring and monthly reporting of actual cost versus GMP budget for all work elements including GMP contingencies and work changes. Our monthly reports will identify all actual versus budget variances and will include cost to complete projections for all remaining work elements.
- Manage and administer a program to pre-qualify all subcontractors prior to issuance of the individual work packages. Our pre-qualification process will include an evaluation of the following for each subcontractor:
 1. Financial capability and credit references.
 2. Bonding capacity.
 3. EMR Rating and other safety record metrics.
 4. Experience and Qualifications including prior work references.
- Develop and administer an equipment and subcontractor procurement program using a “staged” bid package approach. The procurement process will be transparent and open book using a competitive bidding process integrated directly to the overall project schedule. All subcontractors will be selected using “best value” considerations and will reviewed with the MCPWO and the Engineer.

It should be noted that best value does not always equate to the lowest price. The best value approach takes into consideration not only price but also includes important considerations which the CMAR considers important to the successful completion of the project. These considerations would include:

- 1.) Ability to meet all schedule requirements.
- 2.) Any significant changes to backlog since being prequalified. This will help ensure the sub still has the resources available to complete work in a timely manner.
- 3.) Subcontract T&C exclusions and inclusions.
- 4.) Any other risk related issues perceive to be critical to project success.

All bid package price quotations will be thoroughly reviewed and vetted by Weiss using best value considerations. Upon completing our bid review, our recommendations for subcontractor selection for the respective bid package will be presented to the Owner and Engineer. After a short review period, we will meet the Owner and Engineer to review our recommendations and come to a collaborative consensus on which subcontractor should be considered best value for their respective bid package. The bid package selection process will be an “open book” approach and, we do not expect it will take very long to reach a consensus on subcontractor selections.

- Administer a robust jobsite safety program. Our program will be tailored specific to the project and will be administered with the goal of zero lost time accidents.
- Provide all temporary facilities required by contract including field office, traffic control, temporary fencing, site security and temporary utilities as required to construction and administered the project.
- SRF Administration – During the construction phase we will provide the necessary administration and reporting as it relates to EGLE’s SRF requirements for Davis Bacon, AIS, and DBE Good Faith Efforts, as required.
- Start-up, Commissioning, Owner Training, and system performance testing.
- Warranties, Project record documents and all other related project closeout documentation.

Work to be Self Performed

Weiss Construction will entertain self-performing certain work elements for this project. At a minimum these would include:

- Site and selective demolition
- Grading and structural excavation/backfill
- Structural concrete
- Mechanical / process piping / process equipment installation

A breakdown on which trades are typically self-performed on a Weiss project are as follows:

Type of Work	Self-Perform	Subcontractor
Demolition	✓	✓
Earthwork	✓	✓*
Hazardous Material Abatement		✓
Concrete	✓	✓*
Masonry		✓
Steel Erection	✓	✓
Interior and Exterior Finishes & Painting		✓
Mechanical	✓	✓*
HVAC		✓
Plumbing	✓	✓*
Fire Protection		✓
Interior and Site Electric		✓
Roofing & Glazing		✓
Instrumentation & Controls		✓
Sewer Cleaning & TV Inspection		✓
Concrete Flat Work	✓	✓*
Paving	✓	✓
Pipeline Construction	✓	✓

* If lower better value is offered.

Opinion of Cost

Based on our review of the RFP documents we have prepared a conceptual estimate of the likely construction cost. A copy of our “opinion of probable cost” is presented on the following pages.

Potential Cost Savings and VE Opportunities

Temporary Earth Retention System (TERS), Type and Footprint – The TERS concept shown on the RFP drawings consists of a tangent pile wall system with a footprint 380 feet long by 30 feet wide inside clear. The 36-inch diameter tangent elements are 56-foot-long drilled shafts with each pile concrete filled and reinforced with a steel wide flange beam.

Considerable cost savings could be realized by utilizing an alternate TERS system such as a secant pile wall. The secants could be filled with low strength concrete and only every other pile element (primary elements) need be steel beam reinforced. Besides reducing the steel beam material and installation costs, the secant system would eliminate the cost of the auger cast backer pile that would be required for a tangent system. We also believe the tangent pile wall could be more prone to soil and water intrusion than a secant wall.

Another VE option that would result in considerable cost savings is a reduction in the TERS footprint. The drawings currently show the TERS extending between column lines 38 and 55. However the TERS need only extend between column lines 39 and 50 as the new structure located outside these column line limits will not require excavation below the bottom of foundation for either the RTB or the emergency bypass conduit. This would reduce the length of the TERS by about 120 lineal feet or approximately 30%.

Additional cost savings could be realized by using a hybrid approach to the TERS. For Instance, a rigid secant pile TERS could be used for the areas between column lines 43 and 50 requiring a much deeper excavation and a simpler less costly system in the shallow excavation areas between lines 40 and 43.

On a related issue, our proposal team recognized that the TERS concept drawings (B Sheets) show the TERS wall directly abutting but avoiding conflict with either the South wall of the existing RTB or the North wall of the existing double box emergency bypass conduit. However, the process drawings (D sheets) and some of the structural drawings show the South TERS wall passing through the North Box. It should be noted that our cost estimate and draft construction schedule are based on the assumption that the TERS wall will not interfere with the North box except in the immediate areas of connection between the pump station and emergency bypass box. Additionally, since the Secant approach is expected to be less costly and require less time to construct our schedule and cost estimate are also based on the secant pile system, not the tangent system shown on the RFP drawings.

Emergency Bypass North Box – The RFP drawings lack detail regarding the connection between the existing emergency bypass conduits and the new pump station. Some RFP drawings indicate the remaining sections of the existing double box emergency bypass that will not be incorporated into the new work (approximately 450 lft) will be removed and other drawings indicate the box will be abandonment in place. Provided this is still under consideration, abandonment could be a considerable VE option as the cost savings would be significant. Even further cost and time savings could be realized by incorporating more or all of the existing North box thus reducing or completely eliminating the need for the new South box for the Emergency bypass.

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
8 1/2 Mile Relief	Chapter 20 State of MI – 16.04% County of Macomb – 2.25% Dept. of Roads – 2.25% Eastpointe – 54.33% St. Clair Shores – 25.13%	Astorino	Access Interactive LLC	\$ 570.94	Invoice #INV000108395 - 01.10.22	SCADA Maintenance	
			Cintas Fire 636525	\$ 2,025.79	Invoice #0D26606458 - 01.07.21	Annual Fire Extinguisher Inspection	
			City of St. Clair Shores Treasurer	\$ 1,201.66	Invoice #22-014 - 12.15.21	Monthly Utilities - 9.15.21 - 12.15.21	
			Consumers Energy	\$ 1,419.89	Invoice #SCFZL-FJB6B - 01.18.22	Monthly Utilities - 12.09.21 - 01.10.22	
			Consumers Energy	\$ 775.44	Invoice #SCFZL-FJ190 - 01.18.22	Monthly Utilities - 12.09.21 - 01.10.22	
			Consumers Energy	\$ 1,096.35	Invoice #SCFZL-FJSNC - 01.18.22	Monthly Utilities - 12.09.21 - 01.10.22	
			De-Cal, Inc.	\$ 546.20	Invoice #WO90021105-4 - 12.21.21	4th Quarter PM - Filters and Belts	
			De-Cal, Inc.	\$ 9,990.00	Invoice #WO9212264 - 01.02.22	Heater Unit - East Building	
			DTE Energy	\$ 561.31	Invoice #22-010 - 01.04.22	Monthly Electric - December 2021	
			DTE Energy	\$ 10,558.37	Invoice #SDCCL-326WQ - 01.12.22	Monthly Electric - 12.07.21 - 01.09.22	
			DTN, LLC	\$ 614.25	Invoice #6071410 - 01.21.22	Storm Sentry Weather Service	
			Fishbeck	\$ 7,365.95	Invoice #407313 - 12.28.21	9 Mile Basin Rehabilitation Project	\$ 107,927.12
			Hamlett dba HESCO	\$ 3,898.20	Invoice #202113339 - 12.22.21	Outfall Gate Repair	
			Hamlett dba HESCO	\$ 800.00	Invoice #202113260 - 11.18.21	Actuator Gate Repair	
			In Motion, Inc.	\$ 1,044.00	Invoice #H-1004 - 01.24.22	Preventative Maintenance	
			Lardner Elevator	\$ 925.00	Invoice #192902 - 01.16.22	Elevator Maintenance	
			New Pig Corporation	\$ 863.79	Invoice #23546437-00 - 01.24.22	Pump Oil Change - Pads	
			Premier Safety	\$ 505.02	Invoice #04205744 - 12.08.21	Confined Space Equipment Repair	
			Tetra Tech, Inc.	\$ 4,086.66	Invoice #51839269 - 12.31.21	In-System Storage Devices	\$ 54,934.19
			Tetra Tech, Inc.	\$ 73,848.03	Invoice #51839271 - 01.03.22	9 Mile Pump Station Design	\$ 1,027,207.28
			Tetra Tech, Inc.	\$ 4,736.66	Invoice #51851496 - 02.01.22	In-System Storage Devices	\$ 1,075,171.53
			Tetra Tech, Inc.	\$ 69,388.98	Invoice #51851506 - 02.01.22	9 Mile Pump Station Design	\$ 957,818.30
			Wade Trim	\$ 2,297.50	Invoice #2023006 - 02.03.22	Chapaton RTB Canal Rehab	\$ 237,782.83
Total			\$ 199,119.99				



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/12/2022
4. SET ID		5. POST DATE
VP220112KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Access Interactive LLC	V00035	01	INV000108395	1/10/2022	\$ 1,522.50

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210166M	80146	CC0014	80146	WO20001	MIDDD	SCADA Maintenance	\$ 654.68	GEN		
B	8210166M	80146	CC0014	80146	WO20016	MIDDD (OMID)	SCADA Maintenance	\$ 106.58	GEN		0
C	8210017M	80146	CC0014	80146	WO20001	8 1/2 Mile Relief	SCADA Maintenance	\$ 570.94	GEN		0
D	8210072M	80146	CC0014	80146	WO20001	Martin	SCADA Maintenance	\$ 114.19	GEN		0
E	8713018M	80146	CC0014	80146	WO20001	SEMCWWDS	SCADA Maintenance	\$ 76.11	GEN		0
F											
G											

23. Total: \$ 1,522.50

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>Multiple</u></p> <p>31. Project Balance: <u>\$7,503.75</u></p> <p>32. Staff Date: <u>1/18/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
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**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	WO20001
PROJECT NUMBER	WWS-2020-004
PROJECT NAME	SCADA Maintenance
DRAINAGE DISTRICT	MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT, EIGHT AND ONE-HALF MILE DRAINAGE DISTRICT, MARTIN SANITARY DIVERSION DRAINAGE DISTRICT, MACOMB COUNTY
CONSULTANT NAME	BILL FEDAK (DESIGNATED REPRESENTATIVE)
INVOICE DATE	
INVOICE START DATE	
INVOICE END DATE	
ORIGINAL CONTRACT AMOUNT	\$ 29,000.00
CHANGE ORDER TOTAL	\$ -
Change Order No. 1	
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 29,000.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 19,973.75
TOTAL AMOUNT DUE THIS INVOICE	\$ 1,522.50
TOTAL BUDGET REMAINING	\$ 7,503.75
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	

Access Interactive, LLC.
 46635 Magellan Drive
 Novi MI 48377

Invoice	INV000108395
Date	1/10/2022
Page	1

Phone (248) 567-3000

Bill To:

Macomb County Public Works Office (MCPWO)
 Attn: Accounts Payable
 21777 Dunham Road
 Clinton Township MI 48036

Ship To:

Macomb County Public Works Office (MCPWO)
 Attn: Accounts Payable
 21777 Dunham Road
 Clinton Township MI 48036

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date	Master No.
WO20001	MACOMBDPW4257	1003		Net 30	1/11/2022	114,376
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
4.50	4.50	0.00	LBR-HOUR-GMNLABOR	Per Hour Labor by Ganesh	\$145.00	\$652.50
6.00	6.00	0.00	LBR-HOUR-MAHLABOR	Per Hour Labor by Mike Hammerberg 12/8/2021 - 12/21/2021	\$145.00	\$870.00

Subtotal	\$1,522.50
Misc	\$0.00
Tax	\$0.00
Freight	\$0.00
Trade Discount	\$0.00
Total	\$1,522.50

Signature _____

Date _____

Thank you for your order!

If you have any questions regarding your invoice,
 please call (248)567-3000.

SERVICE REPORT FORM

Timestamp	Email Address	Date	Company Name	Contact	Case Number	Onsite Time	Office Time/ Off-Site Time	Drive Time	Details	Case Status	Internal Comments	Sales Rep	Rate	OK to Bill? Y/N
12/23/2021 8:14:45	ganesh@access-interactive.com	12/13/2021	Macomb County Public Works				0:15:00		Sent email to Brent with commands to run external time source on both domain controllers. Sent follow-up email.					
12/23/2021 8:23:44	ganesh@access-interactive.com	12/15/2021	Macomb County Public Works				3:00:00		Worked with Brent on time server issues on member server. Checked group policy for any static time server entry. Restarted time service to resolve the issue. Discussed and worked on physical connection speed for storage , hosts and vm network. Found 1 GB and 10 GB is used for vm network. Checked network diagram for connection map. Checked Veeam backup , and Veeam repository on Compellent. Created 2 copy jobs to copy the backup data to other locations. Discussed Log4j vulnerability issues with customer. Later send emails regarding issues reported for different product.					
12/23/2021 8:29:21	ganesh@access-interactive.com	12/16/2021	Macomb County Public Works				0:45:00		Call with Mike to discuss the MCPW network, Veeam backup and VMWare hosts/storage.					
12/23/2021 8:49:14	ganesh@access-interactive.com	12/21/2021	Macomb County Public Works				0:30:00		Call with Brent. Applied Vcenter log4j patch to customer Vcenter server successfully. Discussed other network related topics.					
12/16/2021 14:51:01	mhammer@access-interactive.com	12/8/2021	Macomb County Public Works	Brent Welser			0:30:00		Internal meeting with Access team to prepare for onsite visit with Brent on Friday					
12/16/2021 15:00:09	mhammer@access-interactive.com	12/10/2021	Macomb County Public Works	Brent Welser		3:00:00		2:30:00	Onsite time at Chapaton pumping station with Brent discussing all recent work and projects on the horizon including SAN, Veeam, ESXi, firewall and switching.					

10:30:00



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Kellie Kource	2. PHONE # 95337	3. DATE 2/8/22
4. SET ID	5. POST DATE	

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to) Cintas Fire 636525	7. VENDOR NUMBER V00904	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) 0D26606458	10. Invoice Date 1/7/2021	11. Invoice Amount \$ 2,613.72
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CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL		18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)						
A	8210017M	93001	CC0004	93001	WO18006	8 1/2 Mile Relief		Acct #00440, Srvc 7999046	\$ 2,025.79	GEN		
B	8210072M	93001				Martin		Acct #00440, Srvc 7999046	\$ 300.37	GEN		0
C	8713018M	93001			WO18218	SEMCWWDS (BH)		Acct #00440, Srvc 7999046	\$ 206.93	GEN		0
D	8713018M	93001			WO18219	SEMCWWDS (V)		Acct #00440, Srvc 7999046	\$ 45.42	GEN		0
E	8312006M	93001				Clinton River Spillway		Acct #00440, Srvc 7999046	\$ 35.21	GEN		0
F												
G												

23. Total: \$ **2,613.72**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
Annual inspections of fire extinguishers

25. Finance Officer: <u>BM/kk</u>	30. Drain: <u>Multiple</u>
26. Chief Deputy: _____	31. Project Balance: <u>N/A</u>
27. Engineers: _____	32. Staff Date: <u>2/8/2022</u>
28. Managers: _____	33. Board Date: <u>2/14/2022</u>
29. Coordinator: _____	34. Select For Pay Date: _____



Location : CINTAS FIRE PROTECTION

*** INVOICE CUSTOMER COPY ***

Invoice # : 0D26606458 Inv Date : 1/24/2022
 Customer : 440 Loc : D26
 Type : CHG-S Route : 05
 PO Number : Acct # : 00440
 WO Number : Acct Zip : 48080
 Service Visit : 7999046

Remit to:
 CINTAS FIRE 636525
 P.O. BOX 636525
 CINCINNATI, OH 452636525
 (248)817-3800

Bill to:
 MACOMB COUNTY / CHAPATON
 EMAIL INVOICES TO:
 KELLIE.KOURCE@MACOMBGOV.
 ORG, MI 48080

Serviced:
 MACOMB COUNTY / CHAPATON
 23001 E 9 MILE RD
 MACOMB COUNTY PUBLIC WORK
 SAINT CLAIR SHORES, MI 48080

Item	Qty	Description	Unit Price	Net Amount	Tx
HST	4	HYDROTEST	31.06	124.24	N
HSTCO2	7	HYDROTEST, CO2 PORTABLE	46.58	326.06	N
IN	62	FIRE EXTINGUISHER INSPECTION, FLAT RAT	9.19	569.78	N
INEL	12	INSPECTION, EMERGENCY EXIT LIGHTING	22.64	271.68	N
INEXA	4	INSPECTION EMERGENCY EXIT LIGHTING AC ONLY	22.64	90.56	N
DEFEB	1	E-LIGHT BATTERY NOT FUNCTIONING PROPER	.00	.00	N
DEFEL	5	E-LIGHT LAMP NOT FUNCTIONING PROPERLY	.00	.00	N
SC	1	SERVICE CHARGE	125.00	125.00	N
				SUB-TOTAL :	2,613.72
				TAX :	.00
				TOTAL :	2,613.72

per Kays

PLEASE REMIT PAYMENT FROM THIS INVOICE. WE ACCEPT

8.5 2025.79
 Martin 300.37
 CRS 35.21
 SEM (V) 45.42
 SEM (B) 206.93

 \$ 2613.72



Location : CINTAS FIRE PROTECTION

*** INVOICE CUSTOMER COPY ***

Invoice # : 0D26606458 Inv Date : 1/24/2022
 Customer : 440 Loc : D26
 Type . . : CHG-S Route . : 05
 PO Number : Acct # : 00440
 WO Number : Acct Zip : 48080
 Service Visit : 7999046

Remit to:
 CINTAS FIRE 636525
 P.O. BOX 636525
 CINCINNATI, OH 452636525
 (248)817-3800

Bill to:
 MACOMB COUNTY / CHAPATON
 EMAIL INVOICES TO:
 KELLIE.KOURCE@MACOMBOV.
 ORG, MI 48080

Serviced:
 MACOMB COUNTY / CHAPATON
 23001 E 9 MILE RD
 MACOMB COUNTY PUBLIC WORK
 SAINT CLAIR SHORES, MI 48080

Item	Qty	Description	Unit Price	Net Amount	Tx
B22435	1	EXTINGUISHER, 5# ABC ALWH	146.35	146.35	Y
CO210	5	RECHARGE, CO2 10#	45.15	225.75	N
CO215	1	RECHARGE, CO2 15#	53.63	53.63	N
CO25	1	RECHARGE, CO2 5#	36.70	36.70	N
CONT	27	CONTINUITY TEST, CO2 HOSE	7.73	208.71	N
DC10	2	RECHARGE, 10# DRY CHEMICAL	45.15	90.30	N
DC5	1	RECHARGE, 5# DRY CHEMICAL	29.64	29.64	N
EEOR	11	O RING ASSEMBLY	7.73	85.03	Y
ESEAL	62	FLAG SEAL/TAMPER INDICATOR	1.02	63.24	Y
EEVSC	11	VERIFICATION SVC COLLAR	4.79	52.69	Y
EEVSTEM	4	VALVE STEM ASSEMBLY	19.77	79.08	Y
H2O2	1	RECHARGE, H2O 2.5 GAL	35.28	35.28	N



Location : CINTAS FIRE PROTECTION

*** INVOICE CUSTOMER COPY ***

Invoice # : 0D26606458 Inv Date : 1/24/2022
Customer : 440 Loc : D26
Type . . : CHG-S Route . : 05
PO Number : Acct # : 00440
WO Number : Acct Zip : 48080
Service Visit : 7999046

Remit to:
CINTAS FIRE 636525
P.O. BOX 636525
CINCINNATI, OH 452636525
(248)817-3800

Bill to:
MACOMB COUNTY / CHAPATON
EMAIL INVOICES TO:
KELLIE.KOURCE@MACOMBGOV.
ORG, MI 48080

Serviced:
MACOMB COUNTY / CHAPATON
23001 E 9 MILE RD
MACOMB COUNTY PUBLIC WORK
SAINT CLAIR SHORES, MI 48080

Table with 4 columns: Item, Qty, Description, Unit Price, Net Amount Tx. Description text includes: CREDIT CARDS AND CHECK BY PHONE, IF YOU HAVE A QUESTION REGARDING BILLING PLEASE CONTACT 248-817-3800, IF YOU WOULD LIKE TO MAKE A PAYMENT PLEASE CONTACT KRISTINE AT 570-891-0419.



Customer: MACOMB COUNTY / CHAPATON
Collected: 0

PO#:
Signer: Chris

Invoice: 606458
Authorizer: Chris

CHRIS
MS 1-24-22



FIRE PROTECTION SERVICES GENERAL TERMS AND CONDITIONS

The terms and conditions below are excerpts taken from Cintas Fire Protection Services General Terms and Conditions, a complete copy of which is available upon request from your Cintas representative or online at [Cintas.com/firecontract].

16. CINTAS NOT AN INSURER; CUSTOMER'S OBLIGATION TO OBTAIN INSURANCE AS SOLE RECOVERY FOR ANY LOSS AND WARRANTY OF SAME. Customer acknowledges and agrees that neither Cintas nor its Subcontractors or assignees are insurers and that no insurance coverage is provided by this Agreement. CUSTOMER ACKNOWLEDGES AND AGREES THAT CINTAS ASSUMES NO RESPONSIBILITY FOR, NOR SHALL IT HAVE ANY LIABILITY FOR, CLAIMS MADE AGAINST IT CLAIMING THAT IT IS AN INSURER OF CUSTOMER'S SYSTEMS OR ANY OTHER PROPERTY FOR ANY PURPOSE, INCLUDING, BUT NOT LIMITED TO, THE FAILURE OF SUCH SYSTEMS TO OPERATE EFFECTIVELY OR AS DESIGNED. Customer acknowledges that during the term of the Agreement, it is the specific intent of the parties that the Customer will obtain and maintain insurance coverage with minimum coverage of two million dollars (U.S) per incident, at the Customer's expense, that will cover any and all losses, damages, and expense arising out of or from, in connection with, related to, as a consequence of, or resulting from this Agreement in any way, including, but not limited to, public liability, bodily injury, sickness or death, losses for property damage, fire, water damage, and loss of property, and Customer agrees to and warrants that it will obtain and maintain such insurance coverage at all times at no cost to Cintas. Customer shall name Cintas as an additional insured by endorsement on any such policy(ies). This endorsement shall be without limitation or restriction of any type, and Cintas shall be exempt from, and in no way liable for, any sums of money related to this policy(ies) and associated coverage of any type, including, but not limited to, premium payments, deductible, co-payments, or self-insured retention, all of which are the sole responsibility of Customer. Customer agrees that recovery for all such injuries, losses, and damages shall be limited to this insurance coverage only and that it will look exclusively to its insurer(s) to recover for any such injuries, losses, and damages. CUSTOMER AGREES TO SHIFT THE RISK OF LOSS TO ITS INSURERS, WHICH HAVE EXPRESSLY CONTRACTED TO ACCEPT THE RISK OF LOSS TO CUSTOMER'S PROPERTY. CUSTOMER RELEASES AND AGREES TO INDEMNIFY AND HOLD HARMLESS CINTAS FROM AND AGAINST ALL COSTS, EXPENSES (INCLUDING REASONABLE ATTORNEY'S FEES), AND LIABILITY ARISING FROM CLAIMS REQUIRED TO BE COVERED BY INSURANCE PURSUANT TO THIS SECTION, INCLUDING ANY CLAIMS FOR DAMAGES ATTRIBUTABLE TO PUBLIC LIABILITY, BODILY INJURY, SICKNESS, OR DEATH, OR THE DESTRUCTION OF ANY REAL OR PERSONAL PROPERTY, INCLUDING, BUT NOT LIMITED TO, THOSE THAT ARE ATTRIBUTABLE TO CINTAS'S PARTIAL OR SOLE NEGLIGENCE. CUSTOMER FURTHER RELEASES AND WAIVES ANY RIGHT OF SUBROGATION THAT IT, ANY INSURER, OR ANY OTHER THIRD PARTY MAY HAVE DUE TO OR FOR ANY SUCH CLAIM, LOSS, OR DAMAGE, INCLUDING, BUT NOT LIMITED TO, EQUITABLE, CONTRACTUAL, LEGAL, AND CONVENTIONAL SUBROGATION, AND WARRANTS THAT THIS RELEASE AND WAIVER SHALL BE BINDING ON ANY AND ALL SUBROGEEES OR ASSIGNEES OF CUSTOMER'S RIGHTS. CINTAS SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF CUSTOMER, ANY LOSSES, OR ANY DAMAGES THAT IS REQUIRED TO BE INSURED UNDER THIS AGREEMENT. IS INSURED, OR IS INSURABLE. CUSTOMER AGREES TO INDEMNIFY CINTAS AGAINST ANY AND ALL SUCH CLAIMS, INCLUDING CLAIMS OF THIRD PARTIES, THAT MAY ARISE THAT ARE RELATED TO THE AGREEMENT OR THE PROVISION OF THE SERVICES IN ANY WAY THAT MAY ARISE DUE TO CUSTOMER'S BREACH OF THESE OBLIGATIONS. CUSTOMER AGREES TO AND WARRANTS THAT IT WILL NOTIFY ITS INSURER(S) OF THIS RELEASE AND WAIVER.

17. RELEASE AND INDEMNIFICATION OF CINTAS BY CUSTOMER. CUSTOMER RELEASES AND AGREES TO DEFEND, INDEMNIFY, AND HOLD HARMLESS CINTAS AND ANY/ALL OF ITS SUBCONTRACTORS, AGENTS, OFFICERS, EMPLOYEES, OR OTHER REPRESENTATIVES OF ANY TYPE FROM LIABILITY FOR ANY AND ALL LOSS, DAMAGE, OR EXPENSE OF ANY KIND OR TYPE, UNDER ANY LEGAL, EQUITABLE OR OTHER THEORY THAT MAY OCCUR PRIOR TO, CONTEMPORANEOUSLY WITH, OR AFTER THE EXECUTION OF THIS AGREEMENT RELATED IN ANY WAY TO THE SUBJECT MATTER OF THIS AGREEMENT OR PERFORMANCE UNDER THE AGREEMENT, INCLUDING (BUT NOT LIMITED TO) THE IMPROPER OPERATION OR NON-OPERATION OF THE FIRE SUPPRESSION, ALARM, OR OTHER SYSTEM(S). THIS OBLIGATION INCLUDES (BUT IS NOT LIMITED TO) ANY CLAIM, DEMAND, SUIT, LIABILITY, DAMAGE, JUDGMENT, LOSS, EXPENSES, ATTORNEY'S FEES, AND COSTS, THAT MAY BE ASSERTED AGAINST OR INCURRED BY CINTAS OR ITS SUBCONTRACTORS, AGENTS, OFFICERS, EMPLOYEES, OR OTHER REPRESENTATIVES BY CUSTOMER OR ANY PERSON OR ENTITY NOT A PARTY TO THIS AGREEMENT (INCLUDING, BUT NOT LIMITED TO, CUSTOMER'S INSURANCE COMPANY, ADMINISTRATIVE BODY OR AUTHORITY, OR CUSTOMER'S EMPLOYEES) FOR ANY EXPENSE, LOSS, OR DAMAGE CAUSED BY OR CONTRIBUTED TO IN ANY

WAY, OR ALLEGED TO BE CAUSED BY OR CONTRIBUTED TO IN ANY WAY, BY ANY ACT, OMISSION, OR FAULT OF CINTAS OR ITS SUBCONTRACTORS, AGENTS, OFFICERS, EMPLOYEES, OR OTHER REPRESENTATIVES. THIS OBLIGATION EXTENDS TO, WITHOUT LIMITATION, STATUTORY CIVIL DAMAGES, ECONOMIC DAMAGES, PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE (REAL AND PERSONAL) ARISING OUT OF OR RELATED TO THIS AGREEMENT, INCLUDING (BUT NOT LIMITED TO) ANY CLAIMS BASED UPON BREACH OF THE AGREEMENT, STRICT LIABILITY, REQUESTS FOR OR RIGHTS OF SUBROGATION OR CONTRIBUTION, INDEMNIFICATION, WRONGFUL DEATH, AND NEGLIGENCE (WHETHER ACTIVE OR PASSIVE, AND INCLUDING CLAIMS BASED UPON CINTAS'S SOLE, PARTIAL, OR JOINT AND SEVERAL NEGLIGENCE OF ANY TYPE OR DEGREE), AND ANY OTHER CLAIM, WHETHER BASED UPON OR ARISING UNDER CONTRACT, TORT, LAW, OR EQUITY. CUSTOMER FURTHER RELEASES AND WAIVES ANY RIGHT OF SUBROGATION THAT IT, ANY INSURER, OR ANY OTHER THIRD PARTY MAY HAVE DUE TO OR FOR ANY SUCH CLAIM, LOSS, OR DAMAGE. Cintas reserves the right to select counsel to represent it in any such action.

18. LIMITATION OF CINTAS'S LIABILITY; LIQUIDATED DAMAGES. Customer acknowledges that Cintas's service fees/purchase prices are based on the value of services or goods provided and the limited liability provided under this Agreement and not on the value of the Customer's premises or its contents, or the likelihood or potential extent or severity of injury (including death) to Customer or others. Customer further acknowledges and agrees that Cintas cannot predict the potential amount, extent, or severity of any damages or injuries that Customer or others may incur due to the failure of the system or services to work as intended. IF CINTAS OR ITS REPRESENTATIVES ARE HELD LIABLE FOR ANY REASON FOR ANY LOSS, INJURY, OR DAMAGES OF ANY KIND THAT ARISES OUT OF, RESULTS FROM, OR IS RELATED TO THIS AGREEMENT (INCLUDING, WITHOUT LIMITATION, LOSSES, INJURIES OR DAMAGES RESULTING FROM CINTAS'S SOLE OR PARTIAL NEGLIGENCE, WHETHER ACTIVE OR PASSIVE), CUSTOMER AGREES AND WARRANTS THAT CINTAS'S AND ITS REPRESENTATIVE'S COLLECTIVE LIABILITY TO CUSTOMER, ITS AGENTS, OFFICERS, DIRECTORS, EMPLOYEES, INVITEES, AND ANY THIRD PARTY SHALL BE LIMITED EXCLUSIVELY TO \$1,000 AS LIQUIDATED DAMAGES. If Customer wishes to increase the limitation of liability, Customer may, as of right, enter into a supplemental agreement with Cintas to obtain a higher limit by paying an additional amount consistent with the increase in liability; such a payment, however, shall in no way be interpreted to find Cintas or its subcontractors or representatives to be insurers. CUSTOMER AGREES THAT THE LIMITS ON THE LIABILITY OF CINTAS AND THE WAIVERS AND INDEMNITIES SET FORTH IN THIS AGREEMENT ARE A FAIR ALLOCATION OF RISKS AND LIABILITIES BETWEEN CINTAS, CUSTOMER, AND ANY OTHER AFFECTED PARTIES. CUSTOMER ACKNOWLEDGES AND AGREES THAT WERE CINTAS TO HAVE LIABILITY GREATER THAN THAT STATED ABOVE, IT WOULD NOT PROVIDE THE SERVICES. Neither party shall be liable to the other or any other person for any incidental, punitive, speculative, or consequential damages of any type, including, but not limited to, loss of profits or business opportunity.

22. Governing Law. To the greatest extent permitted by law, this Agreement shall be governed by the laws of the State of Ohio, and it explicitly excludes any reference or resort to choice of law rules that suggest or require that the laws of another jurisdiction be applied.

23. Disputes. Any dispute or matter arising in connection with or relating to this Agreement other than an action for collection of fees due Cintas hereunder shall be resolved by binding and final arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules. The number of arbitrators shall be three. The parties shall each choose an arbitrator, with those two arbitrators to agree upon a third arbitrator. The place of arbitration shall be Warren County, Ohio and Ohio law shall apply. Judgment on the award rendered by the arbitrators may be entered in any court having jurisdiction. CUSTOMER, ON BEHALF OF ITSELF AND ALL OF ITS INSURER(S), WAIVES TRIAL BY JURY IN ANY ACTION BETWEEN CUSTOMER AND/OR INSURER AND CINTAS, AND CUSTOMER IRREVOCABLY WAIVES ANY RIGHT TO CLASS REPRESENTATIVE CLAIMS (WHETHER AS A CLASS MEMBER OR CLASS REPRESENTATIVE) AND ANY RIGHT TO HAVE SUCH DISPUTE CONSOLIDATED OR CONSIDERED IN CONJUNCTION WITH ANY OTHER CLAIM OR CONTROVERSY OR AS A PART OF ANY OTHER PROCEEDING. Notice of service of process of any such dispute may be made by correspondence delivered via the United States Postal Service (certified mail or registered mail, return receipt requested) or by a national overnight courier service (such as Federal Express) directed to the opposing party's address identified in this Agreement. With respect to an action for fees due Cintas under this Agreement, the exclusive jurisdiction and forum for the resolution of any such dispute shall be a court of competent jurisdiction in the state where the Customer is located, and if Cintas prevails on any or all of its claim for fees, Cintas shall also be entitled to recover all attorneys' fees and costs it incurs in the prosecution of the claim or action.

CHAP

47IN	431.93
47 EESEAL	47.94
4 INEXA	90.56
9 INEL	203.76
20 CONT	154.6
1 B22435	146.35
1 DC10	45.15
1 DC5	29.64
1 H2O2	35.28
4 CO210	180.6
1 CO215	53.63
1 CO25	36.7
6 HSTCO2	279.48
9 EEOR	69.57
9 EEVSC	43.11
3 HST	93.18
3 EEVSTEM	59.31
SERVICE CHARGE	25
	2025.79

VIOLET

2 IN	18.38
2 EESEAL	2.04
SERVICE CHARGE	25
	45.42

MARTIN

10 IN	91.9
10 EESEAL	10.2
1 INEL	22.64
1 CO210	45.15
1 HSTCO2	46.58
1 EESVC	4.79
1 EEOR	7.73
6 CONT	46.38
SERVICE CHARGE	25
	300.37

SPILL WAY

1 IN	9.19
1EESEAL	1.02
SERVICE CHARGE	25
	35.21

BON HEUR	
2 IN	18.38
2 EESEAL	2.04
2 INEL	45.28
1 DC10	45.15
1 EEOR	7.73
1 EESVC	4.79
1 HST	31.06
1 EEVSTEM	19.77
1 CONT	7.73
SERVICE CHARGE	25
	206.93

TOTAL 2613.72

TOTAL				2613.72	



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/19/22
4. SET ID		5. POST DATE
VP220120KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
City of St. Clair Shores Treasurer	V00928	01	22-014	12/15/2021	\$ 1,201.66

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	92103	CC0004	92103	WO18006	8 1/2 MILE RELIEF	AC#23287-00, 9/15 - 12/15	\$ 1,201.66	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 1,201.66

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: <u>BM/kk</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 MILE RELIEF</u> 31. Project Balance: <u>N/A</u> 32. Staff Date: <u>2/8/2022</u> 33. Board Date: <u>2/14/2022</u> 34. Select For Pay Date: _____
---	---



St. Clair Shores Water Bill

ACCOUNT NUMBER

23287-00

SERVICE ADDRESS

23001 NINE MILE

SERVICE TYPE

Government

PREVIOUS READ

1811
791

CURRENT READ

1868 A
802 A

CONSUMPTION

57
11

FROM: SERVICE PERIOD TO:

09/15/21 12/15/21
09/15/21 12/15/21

DUE DATE

01/28/2022

PAY AFTER DUE DATE

1261.74

PAY BY DUE DATE

1201.66

PREVIOUS BALANCE	0.00
Water	385.83
Sewer	445.94
Customer Chrg	369.40
Retention Basins O&M	0.49
Storm Water Refund	0.00

CURRENT BALANCE

1201.66

MONTHLY BUDGET

Temp-Return Service Requested

8307 1 AB 0.461

8307-8307-20



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

lw
22-014

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

Water rate: \$5.674/unit
Sewer rate: \$6.558/unit
Total rate: \$12.232
One unit = 748 gallons



City of
St. Clair
Shores

27600 Jefferson Ave.
St. Clair Shores, MI 48081

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

To Pay by Credit Card or Electronic Check



Visit www.scsmi.org

Online Payments and Services
or call 1-855-414-9009 (credit card only)

Point and Pay LLC, the service provider, charges a fee for this service of:
3.00% for credit cards (\$1.50 minimum)
Electronic checks are provided as a FREE service.

IMPORTANT INFORMATION - SEE REVERSE SIDE

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



St. Clair Shores Water Bill

Due Date

01/28/2022

Pay After Due Date

1261.74

PAY BY DUE DATE

1201.66

Service Address

23001 NINE MILE

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

Account Number

23287-00



Please make your check payable to: St. Clair Shores Treasurer

If you have questions concerning the water billing process or require a final meter reading when moving, please contact the Customer Service Department at (586) 447-3317. City Hall business hours are: 8:00 a.m. to 4:30 p.m., Monday through Friday.

A return envelope has been provided for your convenience when mailing your payment. If you wish to make an in-person water bill payment during business hours, payments are accepted at the cashier office located in City Hall. For your convenience in making after-hours payments, a freestanding, drive-up, drop box is located in the circle drive in front of City Hall. Please do not deposit cash in the drop box.

When mailing your payment, please allow three business days for the payment to reach the payment processing center. Payment must be received on or before the due date to avoid a 5% penalty. Failure to receive bill does not waive penalty.

Unpaid bills are liens against the property, with an additional penalty upon transfer to the tax roll.

All water registered at the inside water meter will be charged to the account. Check the outside reading device to confirm match. If there is a discrepancy, notify the Water Service Department immediately at (586) 445-5374 for repair.

The City of St. Clair Shores exceeded the action level for lead in drinking water. Lead can cause serious health problems. For more information please call (586) 447-3305 or visit www.scsmi.net/892/SCS-Lead-Safe.

SPECIAL NOTICE REGARDING WATER BILL COLLECTION POLICIES: The City of St. Clair Shores has a water service disconnection policy for unpaid bills. If this bill is not paid in full within 60 days of the due date, your water service will be disconnected. If this should occur, full payment of the past due balance and a \$50 turn-on fee must be made prior to your water service being reinstated.

SPECIAL NOTICE REGARDING SNOW REMOVAL RESPONSIBILITY: Whenever the City of St. Clair Shores experiences a snow fall of 2" or more, a Snow Event may be declared. Residents will be required to clear their sidewalks within 48 hours of the Snow Event. **Failure to do so will cause the City to have the sidewalk cleared and the cost billed to the property owner.**

Please remember to cut your grass regularly! City ordinance states that grass, brush or weeds eight (8) inches in height or more shall be cut by the City as many times as necessary with costs and fees to be assessed against the property owner if it is not maintained.

To Pay by Credit Card or Electronic Check

				
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Visit www.scsmi.org
Online Payments and Services
or call 1-855-414-9009 (credit card only)

Point and Pay LLC, the service provider, charges a fee for this service of:
3.00% for credit cards (\$1.50 minimum)
Electronic checks are provided as a FREE service

RETAIN THE UPPER PORTION OF THIS WATER BILLING STATEMENT FOR YOUR RECORDS. WHEN REMITTING PAYMENT, DETACH THE LOWER PORTION AND RETURN TO THE CITY OF ST. CLAIR SHORES TREASURER'S OFFICE WITH YOUR PAYMENT, USING THE ENCLOSED RETURN ENVELOPE (POSTAGE REQUIRED). PLEASE WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK.



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/18/22
4. SET ID		5. POST DATE
FSB Bill Pay 2/2/22		

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
CONSUMERS ENERGY	V01038	01	SCFZL-FJB6B	1/18/2022	\$ 1,419.89

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	92102	CC0004	92102	WO18006	8 1/2 Mile Relief	1000 0005 7313, 12/9 - 1/10	\$ 1,419.89	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 1,419.89

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer:	BM/kk	30. Drain:	8 1/2 Mile Relief
26. Chief Deputy:		31. Project Balance:	N/A
27. Engineers:		32. Staff Date:	2/8/2022
28. Managers:		33. Board Date:	2/14/2022
29. Coordinator:		34. Select For Pay Date:	



Questions:
 Visit: ConsumersEnergy.com
 Call us: 800-805-0490

Amount Due: \$1,419.89
Please pay by: February 02, 2022

In case of an emergency, call us immediately day or night at 1-800-477-5050.

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

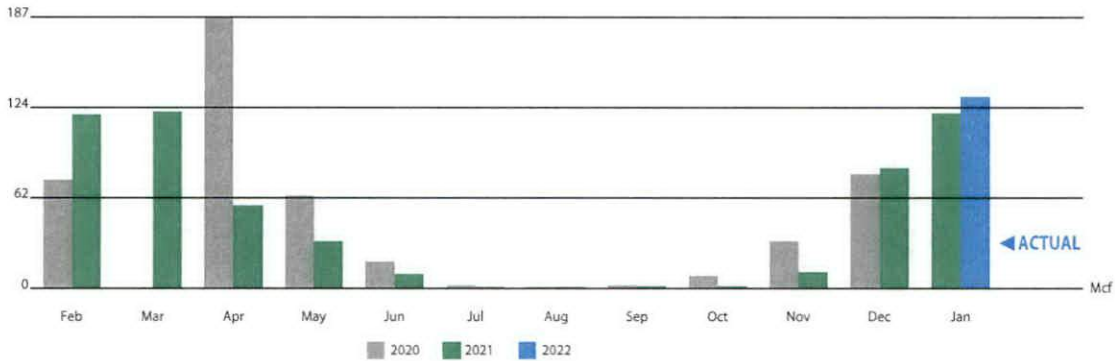
▶ **Thank You** - We received your last payment of \$921.60 on January 03, 2022

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

January Energy Bill

Service dates: December 09, 2021 - January 10, 2022 (33 days)

Total Natural Gas Use (Mcf - thousand cubic feet)



January Natural Gas Use
131.7 Mcf
 January 2021 use: 121 Mcf

Cost per day:
\$43.03

Mcf per day:
3.991

Prior 12 months of gas use:
574 Mcf

You are participating in Gas Customer Choice with an Alternative Gas Supplier.

Your current price is \$6.90 per Mcf, which is determined by the supplier you have chosen and may include more than the gas commodity. Consumers Energy's gas commodity price, regulated by the Michigan Public Service Commission, is \$3.69 per Mcf. This is listed under Natural Gas Charges on the back. **Questions?** Call your supplier at 800-296-2203 or call us at 800-477-5050.

Learn more about Gas Customer Choice and compare prices at www.Michigan.gov/CompareMIGas



Save Energy and Money This Winter

We all know just how unpredictable Michigan weather can be. Temperature swings can impact your monthly bill. Manage your energy use with energy saving tips and rebates.



Did You Know? Higher energy bills may be caused by extensive cold snaps, expanded shifts or a larger facility.

Learn more at www.ConsumersEnergy.com/startsaving

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



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

SCFZL - FJBBB

Amount Due: \$1,419.89
Please pay by: February 02, 2022
 Enclosed:

Service Address:
 MACOMB CO DRAIN COMM
 23001 E 9 MILE RD
 SAINT CLAIR SHORES MI 48080-1576

PAYMENT CENTER
 PO BOX 740309
 CINCINNATI OH 45274-0309



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

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

Account Information

Bill Month: January
Service dates: 12/09/2021 - 01/10/2022
Days Billed: 33
Portion: 12 01/22

Rate Information

Gas Gen Serv Rate GS-2 - Com Cust Choice
Rate: 278

Meter Information

Your next scheduled meter read
date is on or around 02/08/2022

Gas Service:

AMR Meter
Meter Number: 96482875
POD Number: 0000003537725
Beginning Read Date: 12-09
Ending Read Date: 01-10
Beginning Read: 8141
Ending Read: 9445 (Actual)
Differential: 1304
Constant: 0.1
Correction factor: 1.01028
Usage: 131.7 Mcf

Total Metered Energy Use: 131.7 Mcf

January Energy Bill

Invoice: 206346439803

Account Summary

Last Month's Account Balance	\$921.60
Payment on January 03, 2022	\$921.60-
Balance Forward	\$0.00

Payments applied after Jan 11, 2022 are not included.

Natural Gas Charges

Customer Charge		\$91.63
Gas Distribution	131.7@ 3.185500	\$419.53

Kratos Gas & Power (800/296-2203)

Supplier Charge KR1	131.7@ 6.900000	\$908.73
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Total Natural Gas **\$1,419.89**

Total Energy Charges **\$1,419.89**

Amount Due: **\$1,419.89**
by February 02, 2022

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

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

NEWS AND INFORMATION

Compare natural gas prices among Consumers Energy and other gas providers at www.Michigan.gov/CompareMIGas.

We have filed a request with the Michigan Public

Service Commission in Case U-21148 to adjust natural gas distribution rates. A copy of our filing and explanation of the proposed changes may be viewed at our offices and at <https://mi-psc.force.com/s/global-search/21148>.
Learn more

www.consumersenergy.com/residential/rates/gas-rates.

Consumers Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

Ways to pay your energy bill:


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


eLockbox
via ACH
Secure electronic
payment with
emailed remittance


Same-day payment
ConsumersEnergy.com
Discover® MasterCard®
or Visa® or eCheck


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


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


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



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Kellie Kource	2. PHONE # 95337	3. DATE 1/18/22
4. SET ID FSB Bill Pay 2/2/2022		5. POST DATE

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to) CONSUMERS ENERGY	7. VENDOR NUMBER V01038	8. ADDR CODE 01	9. Invoice No (MAX = 16 CHARACTERS) SCFZL-FJ190	10. Invoice Date 1/18/2022	11. Invoice Amount \$ 775.44
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CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	92102	CC0004	92102	WO18006	8 1/2 Mile Relief	Ac#1000 0754 2333, 12/9 - 1/10	\$ 775.44	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ **775.44**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
--	--



Questions:
 Visit: ConsumersEnergy.com
 Call us: 800-805-0490

Amount Due: \$775.44
Please pay by: February 02, 2022

In case of an emergency, call us immediately day or night at 1-800-477-5050.

MACOMB COUNTY DRAIN COMMISSION
 21777 DUNHAM RD
 CLINTON TOWNSHIP MI 48036-1005

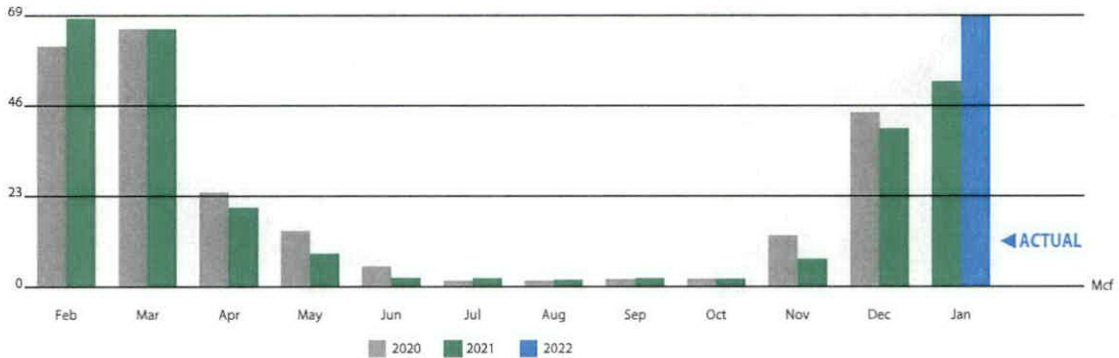
▶ **Thank You** - We received your last payment of \$454.92 on January 03, 2022

▶ **Service Address:**
 22999 E 9 MILE RD
 SAINT CLAIR SHORES MI
 48080-0000

January Energy Bill

Service dates: December 09, 2021 - January 10, 2022 (33 days)

Total Natural Gas Use (Mcf - thousand cubic feet)



January Natural Gas Use
69.1 Mcf
January 2021 use: 52 Mcf

Cost per day:
\$23.50

Mcf per day:
2.094

Prior 12 months of gas use:
291 Mcf

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Your current price is \$6.90 per Mcf, which is determined by the supplier you have chosen and may include more than the gas commodity price. Consumers Energy's gas commodity price, regulated by the Michigan Public Service Commission, is \$3.69 per Mcf. This is listed under Natural Gas Charges on the back. **Questions?** Call your supplier at 800-296-2203 or call us at 800-477-5050.

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Learn more at
www.ConsumersEnergy.com/startsaving



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



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

Account: 1000 0754 2333

SCF2L- FJ190

Service Address:
 MACOMB COUNTY DRAIN COMMISSION
 22999 E 9 MILE RD
 SAINT CLAIR SHORES MI 48080-0000

PAYMENT CENTER
 PO BOX 740309
 CINCINNATI OH 45274-0309

Amount Due: \$775.44
Please pay by: February 02, 2022
 Enclosed:



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

Service Address:
22999 E 9 MILE RD; SAINT CLAIR SHORES
MI 48080-0000
Account: **1000 0754 2333**

Account Information

Bill Month: January
Service dates: 12/09/2021 - 01/10/2022
Days Billed: 33
Portion: 12 01/22

Rate Information

Gas Gen Serv Rate GS-1 - Com Cust Choice
Rate: 277

Meter Information

Your next scheduled meter read
date is on or around 02/08/2022

Gas Service:

AMR Meter
Meter Number: 96516200
POD Number: 0000000435094
Beginning Read Date: 12-09
Ending Read Date: 01-10
Beginning Read: 3751
Ending Read: 4442 (Actual)
Differential: 691
Constant: 0.1
Correction factor: 1.00000
Usage: 69.1 Mcf

Total Metered Energy Use: 69.1 Mcf

January Energy Bill

Invoice: 201096276668

Account Summary

Last Month's Account Balance	\$454.92
Payment on January 03, 2022	\$454.92-
Balance Forward	\$0.00

Payments applied after Jan 11, 2022 are not included.

Natural Gas Charges

Customer Charge		\$15.00
Gas Distribution	69.1@ 4.105000	\$283.65
Kratos Gas & Power (800/296-2203)		
Supplier Charge KR1	69.1@ 6.900000	\$476.79
Total Natural Gas		\$775.44

Total Energy Charges \$775.44

Amount Due: \$775.44
by February 02, 2022

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will be added to your next bill.

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NEWS AND INFORMATION

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Energy and other gas providers at
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Service Commission in Case U-21148 to adjust
natural gas distribution rates. A copy of our filing
and explanation of the proposed changes may be
viewed at our offices and at
<https://mi-psc.force.com/s/global-search/21148>.
Learn more

www.consumersenergy.com/residential/rates/gas-rates.

Consumers Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

Ways to pay your energy bill:



Auto-pay
Checking or savings

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



eLockbox
via ACH

Secure electronic
payment with
emailed remittance



Same-day payment
ConsumersEnergy.com

Discover® MasterCard®
Visa® or eCheck



Same-day payment
866-329-9593

Discover® MasterCard®
Visa® or eCheck



By mail
Check, money order

Consumers Energy
Payment Center
P.O. Box 740309
Cincinnati, OH 45274-0309



In person
Cash, check, card
or money order

Varies by authorized
payment location
Fee may apply



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/18/22
4. SET ID		5. POST DATE
FSB 2/2/22		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
CONSUMERS ENERGY	V01038	01	SCFZL-FJSNC	1/18/2022	\$ 1,096.35

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	92102	CC0004	92102	WO18006	8 1/2 MILE RELIEF	AC# 1000 0754 2523, 12/9 - 1/10	\$ 1,096.35	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 1,096.35 REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 MILE RELIEF</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
--	--



Questions:
 Visit: ConsumersEnergy.com
 Call us: 800-805-0490

Amount Due: **\$1,096.35**
Please pay by: **February 02, 2022**

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

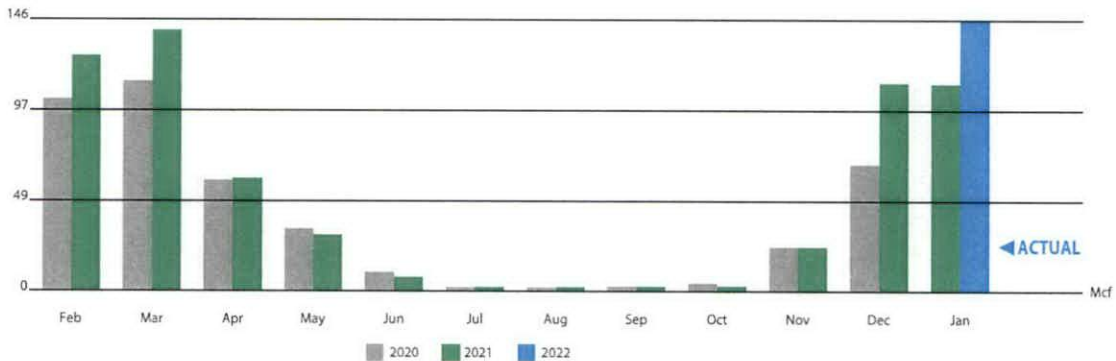
▶ **Thank You** - We received your last payment of \$919.22 on January 03, 2022

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

January Energy Bill

Service dates: December 09, 2021 - January 10, 2022 (33 days)

Total Natural Gas Use (Mcf - thousand cubic feet)



January Natural Gas Use
146.2 Mcf
January 2021 use: 112 Mcf

Cost per day:
\$33.22

Mcf per day:
4.430

Prior 12 months of gas use:
660 Mcf

STAY SAFE: Call 9-1-1 and 800-477-5050. We'll respond day or night.

Downed power lines.
 Stay 25 feet away. Call from a safe location.

If you smell natural gas.
 If the "rotten egg" odor of gas is apparent, call from a safe location.

Save Energy and Money This Winter

We all know just how unpredictable Michigan weather can be. Temperature swings can impact your monthly bill. Manage your energy use with energy saving tips and rebates.

Did You Know? Higher energy bills may be caused by extensive cold snaps, expanded shifts or a larger facility.

Learn more at
www.ConsumersEnergy.com/startsaving

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

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

Account: 1000 0754 2523

SCFZL - FJSNC

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

PAYMENT CENTER
 PO BOX 740309
 CINCINNATI OH 45274-0309

Amount Due: **\$1,096.35**
Please pay by: **February 02, 2022**
 Enclosed:



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

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

Account Information

Bill Month: January
Service dates: 12/09/2021 - 01/10/2022
Days Billed: 33
Portion: 12 01/22

Rate Information

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

Meter Information

Your next scheduled meter read
date is on or around 02/08/2022

Gas Service:

AMR Meter
Meter Number: 98117224
POD Number: 0000000435095
Beginning Read Date: 12-09
Ending Read Date: 01-10
Beginning Read: 7118
Ending Read: 8580 (Actual)
Differential: 1462
Constant: 0.1
Correction factor: 1.00000
Usage: 146.2 Mcf

Total Metered Energy Use: 146.2 Mcf

January Energy Bill

Invoice: 201096276669

Account Summary

Last Month's Account Balance	\$919.22
Payment on January 03, 2022	\$919.22-
Balance Forward	\$0.00

Payments applied after Jan 11, 2022 are not included.

Natural Gas Charges

Customer Charge		\$91.63
Gas Distribution	146.2@ 3.185500	\$465.72
Gas Cost Recovery	146.2@ 3.686700	\$539.00
Total Natural Gas		\$1,096.35

Total Energy Charges

\$1,096.35

Amount Due:

\$1,096.35

by February 02, 2022

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will be added to your next bill.

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Learn more

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Consumers Energy is regulated by the Michigan Public Service Commission, Lansing, Michigan

Ways to pay your energy bill:


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


eLockbox
via ACH
Secure electronic
payment with
emailed remittance


Same-day payment
ConsumersEnergy.com
Discover® MasterCard®
Visa® or eCheck


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


By mail
Check, money order
Consumers Energy
Payment Center
P.O. Box 74309
Cincinnati, OH 45274-0309


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



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/25/22
4. SET ID		5. POST DATE
VP220126KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
De-Cal, Inc.	V59694	01	WO90021105-4	12/21/2021	\$ 546.20

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	Job #900-21-105-4, 12/21/21	\$ 546.20	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 546.20 REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
 4th Quarter PM - Filters and belts

25. Finance Officer: <u>BM/kk</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 Mile Relief</u> 31. Project Balance: <u>N/A</u> 32. Staff Date: <u>2/8/2022</u> 33. Board Date: <u>2/14/2022</u> 34. Select For Pay Date: _____
---	---

Service Report



Service Report No : 900-21-105-4-1

Date: December 21, 2021

Client P.O. #: N/A

HVAC Service

Ready to Invoice/Work Complete

Site:

Macomb Chapaton Pump station
23001 E. 9 Mile Rd., St. Clair Shores , MI ,
48080

Client:

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

Reason for Call:

4th quarter pm--filters and belts

Description of Service:

11-21 Performed preventive maintenance on H.V.A.C. equipment, changed out filters, checked belts, checked and verified proper operation of equipment, all are operating properly.

Note: customer provides filters and belts

Technician Work

Name	Date	Reg. hrs	Prem. hrs
Cliff Wilkerson	Dec 21, 2021	4	0



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

Service Invoice

Invoice #: WO90021105-4
Date: 01/06/2022

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

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

Client PO#:	Employee: Cliff Wilkerson	Due Terms: 30DY
--------------------	----------------------------------	------------------------

Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		See Attached	1.0000	546.200000	546.20	N

Notes:

Please see work order for details.

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: \$	546.20
-----------------------	---------------



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/02/2022
4. SET ID		5. POST DATE
VP220207KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
De-Cal, Inc.	V59694	01	WO9212264	1/2/2022	\$ 9,990.00

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	93002	C0004	93002	WO18006	8 1/2 Mile Relief	Job #721186 - BTU unit heater install	\$ 9,990.00	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 9,990.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

25. Finance Officer: <u>BM/kk</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8.5 Mile Relief</u> 31. Project Balance: <u>N/A</u> 32. Staff Date: <u>2/8/2022</u> 33. Board Date: <u>2/14/2022</u> 34. Select For Pay Date: _____
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DE-CAL, Inc.
 24659 Schoenherr Rd.
 Warren, MI 48089-4775
 Service Phone: 586-619-0281
 Service Fax: 586-486-5242

Service Invoice

Invoice #: WO9212264

Date: 01/02/2022

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

Location: Macomb Chapaton Pump East
 23009 E. 19 Mile Rd
 St. Clair Shores MI 48080

Client PO#: PW000204	Employee: Lance Axtell	Due Terms: 30DY
-----------------------------	-------------------------------	------------------------

Assembly#	Part#	Description	Quantity	Price	Ext Price	Sales Tax
		Quoted Price	1.0000	9,990.000000	9,990.00	N

Notes:

(2) 37K Btu unit heater install

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: \$ 9,990.00

PURCHASE ORDER NO.

PW000204

PURCHASE ORDER NUMBER MUST
APPEAR ON ALL INVOICES AND SHIPPING
DOCUMENTS

Vendor: **V59694**
DE CAL INC

24659 SCHOENHERR
WARREN, MI 48089

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

Requested by: Michelle Houvener

Req. Dt: 10/26/2021

ITEMS

ITEM #	ORGKEY	OBJECT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
0001	8210017M	93001	Provide and install 2 new 37k BTU unit heaters	1.00		9,990.00	9,990.00
0002	8210017M	93001	Quote #721186	1.00		0.00	0.00
						TOTAL	<u>\$9,990.00</u>

BILL TO:

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

Bruce Manning /mh
AUTHORIZED AGENT

Print Date: 10/26/2021



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Kellie Kource	2. PHONE # 95337	3. DATE 1/14/22
4. SET ID FSB Bill Pay 2/1/22	5. POST DATE	

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
DTE Energy	V01270	08	22-010	1/4/2022	\$ 561.31

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	92101	CC0004	92101	WO18006	8 1/2 Mile Relief	Ac#9100 0005 6739, 12/1-12/31	\$ 561.31	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ **561.31**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>1/18/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
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Payment Coupon

Account Number	910000056739
Due Date:	February 01, 2022
Total Due:	\$561.31

MACOMB COUNTY
21777 DUNHAM RD
CLINTON TWP MI 48036-1005



22-010

Mail Payments to:
DTE Energy
P.O. Box 740786
Cincinnati OH 45274-0786

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

Account Information

MACOMB COUNTY
21777 DUNHAM RD
CLINTON TWP, MI 48036

Account Number	9100-0005-6739
DTE-Energy Federal ID No.	38-3217752

Programs you are enrolled in: _____

How to contact us: _____

Billing Inquiry 1-734-397-4287

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

Important Information



Summary Of Charges

Account Number 9100-0005-6739

Previous Balance as of 11/30/2021	1,102.28
Payment(s) and Credit(s)	-1,102.28
Remaining Balance	\$0.00

Current Charges

Service Location	Item - Service Type	Rate	Bill Period	Amount
	7004422277 Street Lights OH Standard	EFS_E1UOHS	12/01 - 12/31/21	561.31
	Taxes			0.00
	Miscellaneous Charges			0.00
	Current Bill			\$561.31

Amount Due on or before Due Date of 02/01/2022 \$561.31

Your current charges are due on February 1, 2022. A 2% late payment charge will be applied if paid after the due date.

Detail Charges

Invoice: 200013389285 Service Name: Streetlight
Item: 7004422277 Cycle: 20

Cust Ref: #90-M-300
Street Lights OH Standard

Billing Status Information

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

Charges for 12/01/2021 through 12/31/2021

Power Supply Charges:

Energy Charge:						
Power Supply Non Capacity Charge	1,980	KWH	@ \$	0.0447000	Per Total KWH	88.51
Surcharges:						
Power Supply Cost Recovery Factor	1,980	KWH	@ \$	0.0032200	Per Total KWH	6.38
Sub Total:						94.89

Delivery Charges:

Luminaire:						
100 Watt High Pressure Sodium	10	EA	@ \$	15.4700000		154.70
250 Watt High Pressure Sodium	10	EA	@ \$	23.8100000		238.10
Multiple Lamp Discount	2	EA	@ \$	-0.5100000		-1.02
Surcharges:						
Other Delivery Surcharges						69.42
Other Delivery Volumetric Surcharges						5.22
Sub Total:						466.42

Invoice Subtotal	561.31
Michigan State Sales Tax On Taxable Portion	0.00
Invoice Total	\$561.31



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/27/22
4. SET ID		5. POST DATE
FSB Bill Pay 2/3/22		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
DTE Energy	V01270	08	SDCCL-326WQ	1/12/2022	\$ 10,558.37

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	92101	CC0004	92101	WO18006	8 1/2 Mile Relief	Acct #9100-0005-3785, 12/7-1/9	\$ 10,558.37	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 10,558.37

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
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Payment Coupon

Account Number	910000053785
Due Date:	February 03, 2022
Total Due:	\$10,558.37

SDCL - 326WG

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

Mail Payments to:
DTE Energy
P.O. Box 740786
Cincinnati OH 45274-0786

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

Account Information

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

Account Number	9100-0005-3785
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DTE-Energy Federal ID No.	38-3217752
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Programs you are enrolled in:

How to contact us:

Power Outage	See Detail Charges
Billing Inquiry	1-313-235-7984

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

Important Information



Summary Of Charges

Account Number 9100-0005-3785

Previous Balance as of 12/09/2021	7,365.55
Payment(s) and Credit(s)	- 7,365.55
Remaining Balance	\$0.00

Current Charges

Service Location	Item	Service Type	Rate	Bill Period	Amount
23001 E 9 Mile Rd	7004376662	General Service Municipal Pumping-Net Metering Cat1	EFCND3_WP	12/07 - 01/09/22	10,558.37
		Taxes			0.00
		Miscellaneous Charges			0.00
		Current Bill			\$10,558.37

Amount Due on or before Due Date of 02/03/2022 \$10,558.37

Your current charges are due on February 3, 2022. A 2% late payment charge will be applied if paid after the due date.

Detail Charges

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

Outage Contact Number: 1-313-235-1300

Invoice: 200043390819

Billing Period: 12/07/2021 through 01/09/2022

Days Billed: 34

Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
10056082	12/07	115.2A	01/09	121.8A	6.6	6,400.0000	42,240.0	P - In-V
10056082	12/07	161.9A	01/09	171.5A	9.6	6,400.0000	61,440.0	P - In-W
10056085	12/07	0.0A	01/09	0.0A	0.0	6,400.0000	0.0	P - In-V
10056085	12/07	0.0A	01/09	0.0A	0.0	6,400.0000	0.0	P - In-W
10098716	12/07	0.2A	01/09	0.2A	0.0	- 6400.0000	0.0	P - Out-V
10098716	12/07	0.0A	01/09	0.0A	0.0	- 6400.0000	0.0	P - Out-W
Total KVARH							42,240.00	
Total KWH							61,440.00	

Invoice: 200043390819 Service Name: Chapaton Pumping Station

Item: 7004376662 Cycle: 05

General Service Municipal Pumping-Net Metering Cat1

Billing Status Information

1	On-peak Billing Demand	256	KW	ESTABLISHED	12/15/2021	14:00
3	65% High OP Bill Dmd June-Oct prec 11 mths	3697	KW	ESTABLISHED	07/16/2021	15:00
8	Highest Single Billing Demand	3046	KW	ESTABLISHED	12/11/2021	04:30
A	Current PV High Monthly Demand	3046	KW	ESTABLISHED	12/11/2021	04:30
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	5842	KW	ESTABLISHED	08/12/2021	07:00
	Contract Capacity for Location	6738	KW			
	Power Factor (ratio) for all voltages	82	PCT			
	Total Number of days in the Billing Period	34	DAYS			
	Avg Kilowatthours Used Per Day This Period	1807	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	2541	KWH			
	kWh percentage change from a year ago	-29	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	61440	KWH			
	Net Inflow (In - Out)	61440	KWH			

Charges for 12/07/2021 through 01/09/2022

Power Supply Charges:

Power Supply Energy:						
Power Supply Capacity Charge	61,440	KWH	@ \$	0.0390000	Per Total KWH	2,396.16
Power Supply Non Capacity Charge	61,440	KWH	@ \$	0.0434500	Per Total KWH	2,669.57
Surcharges:						
Power Supply Cost Recovery Factor	61,440	KWH	@ \$	0.0066500	Per Total KWH	408.58
Sub Total:						5,474.31

Delivery Charges:

Service Charge						11.25
Distribution:						
Distribution Energy	61,440	KWH	@ \$	0.0386800	Per Total KWH	2,376.50
Surcharges:						
LIEAF Factor	2	MTR	@ \$	0.8700000	1.74	
Other Delivery Surcharges						142.84
Other Delivery Volumetric Surcharges						51.73
Sub Total:						2,584.06
Special Facilities Charge						2,500.00

Invoice Subtotal

10,558.37

Michigan State Sales Tax On Taxable Portion

0.00

Invoice Total

\$10,558.37



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	2/1/22
4. SET ID		5. POST DATE
VP220207KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
DTN, LLC	V43568	01	6071410	1/21/2022	\$ 1,638.00

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210166M	92113	CC0018	92113	WO18300	MIDDD	Acct#0322513, 11/15-2/14	\$ 819.00	GEN		
B	8210017M	92113	CC0004	92113	WO18006	8 1/2 Mile Relief	Acct#0322513, 11/15-2/14	\$ 614.25	GEN		0
C	8210072M	92113				Martin	Acct#0322513, 11/15-2/14	\$ 122.85	GEN		0
D	8713018M	92113			WO18218	SEMCWWDS	Acct#0322513, 11/15-2/14	\$ 81.90	GEN		0
E											
F											
G											

23. Total: \$ 1,638.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

Storm Sentry

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>Multiple</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
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Account No.	Invoice No.	Invoice Date
0322513	6071410	21-Jan-2022

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

New Charges	\$ 1,638.00
Late Fees	\$ 0.00
Total Due	\$ 1,638.00

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

DTN Did you know? DTN fully understands the gravity of the situation our world currently faces. We are doing all we can to ensure our business operations are fully functional to continue to help you-our customers-to be serviced in the great manner you expect from DTN. If you have any questions, you're encouraged to contact your Customer Success Manager and look at www.dtn.com for additional resources.

Customer Service

Billing Customer Service:

888-826-4282, weatherbilling@dtn.com

Technical Support:

800-485-4000

Postal Correspondence:

DTN
 18205 Capitol Ave Ste 100
 Omaha, NE 68022

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

Pay My Bill

Online: Visit myaccount.dtn.com to submit payments or update your contact information 24 hours a day.

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

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

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

T1220121.001-249-00000244



DTN, LLC
 18205 Capitol Ave Ste 100
 Omaha, NE 68022

#BWNCVKR
0322513

000125 000000244



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

Account No.	Invoice No.	Due Date
0322513	6071410	11-Feb-2022
	Amount Due	\$ 1,638.00
Payment enclosed		



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

10000000060714100000000003225133 00000163800

Account Status

New Invoice	Due Date	Balance	Total
6071410	11-Feb-2022	\$ 1,638.00	
			\$ 1,638.00
TOTAL DUE			\$ 1,638.00

New Charges**Detailed Charges**

Customer: MACOMB COUNTY OPW, CLINTON TOWNSHIP, MI

Account Number: 0322513 UserID: MACOMB

Email: JOSEPH.BETZ@MACOMBGOV.ORG

Service Period

02/15/22-05/14/22 WxSentry Trans Online-Platinum \$ 1,029.00

SUBTOTAL \$ 1,029.00

Customer: MACOMB COUNTY OPW, CLINTON TOWNSHIP, MI

Account Number: 0322513 UserID: MACOMB2

Email: JOSEPH.BETZ@MACOMBGOV.ORG

Service Period

02/15/22-05/14/22 WxSentry Transp Online-Std \$ 123.00

SUBTOTAL \$ 123.00

Customer: MACOMB COUNTY OPW, CLINTON TOWNSHIP, MI

Account Number: 0322513 UserID: MACOMB3

Email: JOSEPH.BETZ@MACOMBGOV.ORG

Service Period

02/15/22-05/14/22 WxSentry Transp Online-Std \$ 162.00

SUBTOTAL \$ 162.00

Customer: MACOMB COUNTY OPW, CLINTON TOWNSHIP, MI

Subject to DTN Terms and Conditions

Customer's acceptance and activation of the DTN goods or services constitutes express acceptance of the Terms and Conditions, a copy of which was provided to Customer upon inception of the service. Any other terms and conditions presented by the Customer, contrary to those provided DTN, do not apply. Canceling service will result in the billing for the duration of the then-current term under the DTN Subscription Agreement.

Services Provided By:

DTN, LLC
Omaha, NE 68022
Tax ID (EIN) - 20-5551424
GST: 83187 6255 RT0001

PST

QC: 1216123332
SK: 2446102
MB: 087446-1
BC: PST-1000-7804

Payment Information

If payment is not received by the due date, late fees and/or collection charges may be assessed. Customer understands that DTN may reduce or disconnect services offered to Customer for non-payment of any charges due. Customer agrees that DTN may charge a reconnection fee in the event that service is disconnected for nonpayment. A \$25.00 USD fee will be assessed for all returned checks. For your convenience, DTN accepts the following credit cards: Master Card, VISA, Discover, and American Express.

TR20121.001-250-00000244

Electronic Payment Information:

Must reference DTN Account No. and Invoice No.

Banking Details: Remit in USD

DTN, LLC

Account No.: 464642771

(ACH) - ABA (Routing)#: 071000013

(Wire) - ABA (Routing)#: 021000021

SWIFT ID: CHASUS33

Bank Address:

(ACH) - JPMorgan Chase, Chicago, IL

(Wire) - JPMorgan Chase, New York, NY

Weather Did you know? Worldwide, weather poses serious threats and challenges for a number of industries. Our leading decision support tools and forecast insights help ensure safe, efficient operations. In a time of increasing weather volatility, managing weather risk is becoming an even more important. From Aviation to Marine to Energy and Sports and Outdoor events our solutions and meteorologists are dedicated to your needs. Find out more about our DTN weather solutions at www.dtn.com

Account Number: 0322513 UserID: MACOMB4

Email: JOSEPH.BETZ@MACOMBGOV.ORG

Service Period

02/15/22-05/14/22 WxSentry Transp Online-Std \$ 162.00

SUBTOTAL \$ 162.00

Customer: MACOMB COUNTY OPW, CLINTON TOWNSHIP, MI

Account Number: 0322513 UserID: MACOMBS

Email: JOSEPH.BETZ@MACOMBGOV.ORG

Service Period

02/15/22-05/14/22 WxSentry Transp Online-Std \$ 162.00

SUBTOTAL \$ 162.00

Total New Charges \$ 1,638.00





Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/11/22
4. SET ID	5. POST DATE	

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Fishbeck	V44063	01	407313	12/28/2021	\$ 7,365.95

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80138	CC0004	80138	WO19005	8 1/2 Mile Relief	Pjt #190051 through 12/24/21	\$ 212.99	GEN		
B	8210017M	80138	CC0004	80138	WO22006	8 1/2 Mile Relief	Pjt #190051 through 12/24/21	\$ 246.00	GEN		0
C	8210017M	80138	CC0004	80138	WO21008	8 1/2 Mile Relief	Pjt #190051 through 12/24/21	\$ 6,906.96	GEN		0
D											
E											
F											
G											

REV 09/2018

23. Total: \$ 7,365.95

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

As Needed Services

25. Finance Officer: <u>BM/kk</u>	30. Drain: <u>8 1/2 Mile Relief</u>
26. Chief Deputy: _____	31. Project Balance: <u>\$107,927.12</u>
27. Engineers: _____	32. Staff Date: <u>1/18/2022</u>
28. Managers: _____	33. Board Date: <u>2/14/2022</u>
29. Coordinator: _____	34. Select For Pay Date: _____

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

WORK ORDER NUMBER WO19005

PROJECT NUMBER WWS-2019-001

PROJECT NAME As-Needed General Engineering Services

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

CONSULTANT NAME Fishbeck

INVOICE DATE 12/29/2021

INVOICE START DATE 11/27/2021

INVOICE END DATE 12/24/2021

ORIGINAL CONTRACT AMOUNT	\$	151,919.00
CHANGE ORDER TOTAL		
	\$	278,732.00
Change Order No. 1	\$	75,000.00
Change Order No. 2	\$	128,732.00
Change Order No. 6	\$	75,000.00
TOTAL REVISED CONTRACT AMOUNT	\$	430,651.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	315,357.93
TOTAL AMOUNT DUE THIS INVOICE	\$	7,365.95
TOTAL BUDGET REMAINING	\$	107,927.12
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		



Payment Options

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

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

Invoice: 407313
Invoice Date: 12/28/2021
Project: 190051
Project Name: Macomb Co PW/8.5 As-needed
 Engineering
Bill Term: 1

For Professional Services Rendered Through 12/24/2021

WO19005

	Fee	Available	Billings		
			To Date	Previous	Current
1.E - Task 1e - Maps	7,500.00	1,657.89	5,842.11	5,842.11	0.00
1.O - Task 1o - RTB & 9EB Structural Repair	148,682.00	9,885.27	145,703.69	138,796.73	6,906.96
<i>Rate Labor</i>	82.00				
<i>Expenses</i>	6,824.96				
1.R - Task 1r - 8DR Confined Space Entry/LOTO Program	10,500.00	2,344.03	8,196.96	8,155.97	40.99
<i>Unit Rate Expense</i>	40.99				
1.S - Task 1s - 8DR Route and Course	4,900.00	194.00	4,878.00	4,706.00	172.00
<i>Rate Labor</i>	172.00				
1.T - Task 1t - 9 Mile PS Design As-Needed	5,000.00	5,000.00	0.00	0.00	0.00
1.U - Task 1u - Chapaton Rehab SRF Project Plan	20,000.00	20,000.00	246.00	0.00	246.00
<i>Rate Labor</i>	246.00				
				Current Billings	<u>7,365.95</u>
				Amount Due This Bill	<u>7,365.95</u>

1.O - Task 1o - RTB & 9EB Structural Repair

Rate Labor				
<i>Class</i>		<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer		0.50	164.0000	82.00
Total Rate Labor				82.00
Expenses				
<i>Account / Vendor</i>			<i>Cost</i>	<i>Multiplier</i>
Subconsultant				
NTH Consultants Ltd			6,499.96	1.05
Total Expenses				6,824.96
Total Bill Task: 1.O - Task 1o - RTB & 9EB Structural Repair				6,906.96

1.R - Task 1r - 8DR Confined Space Entry/LOTO Program

Unit Rate Expenses				
<i>Account / Unit</i>		<i>Quantity</i>	<i>Rate</i>	<i>Amount</i>
Mileage				
Mileage - Employee Vehicle		73.20	0.5600	40.99
Total Unit Rate Expenses				40.99

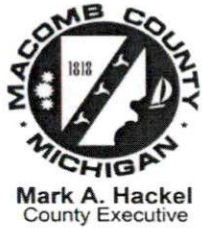
1.S - Task 1s - 8DR Route and Course

Rate Labor				
<i>Class</i>		<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Staff Surveyor		2.00	86.0000	172.00
Total Rate Labor				172.00

1.U - Task 1u - Chapaton Rehab SRF Project Plan

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

Total Project: 190051 - Macomb Co PW/8.5 As-needed Engineering 7,365.95



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type) Kellie Kource	2. PHONE # 95337	3. DATE 12/27/21
4. SET ID VP211227KA	5. POST DATE	

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Hamlett dba HESCO	V084851	01	202113339	12/22/2021	\$ 3,898.20

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	AUMA	\$ 2,263.20	GEN		
B	8210017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	Field Service	\$ 1,600.00	GEN		0
C	8210017M	72903	CC0004	72903	WO18006	8 1/2 Mile Relief	Freight	\$ 35.00	GEN		0
D											
E											
F											
G											

23. Total: \$ **3,898.20**

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
PW000211

25. Finance Officer: <u>BM/kk</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 Mile Relief</u> 31. Project Balance: <u>N/A</u> 32. Staff Date: <u>1/11/2022</u> 33. Board Date: <u>2/14/2022</u> 34. Select For Pay Date: _____
---	--



Knowledgeable • Professional • Attentive • Likeable

29770 Hudson Drive Novi, MI 48377
Phone: (586) 978-7200
hesco-mi.com

Invoice No. 202113339

Date: 12/22/2021

Billed To: Macomb County Public Works Commission
Finance Dept
21777 Dunham Rd
Clinton Twp MI 48036

Project: 20211783BS Chapaton Auma Board Repair

Contact: Kristopher Benda	P.O.# PW000211	Salesperson: Heather Walker	Due Date: 01/21/2022
----------------------------------	-----------------------	------------------------------------	-----------------------------

Description	Unit	Qty	Rate	Amount
AUMA AM Board Assy. 460/115 Interface no E	Each	2.00	1,131.60	2,263.20
Freight	Each	1.00	35.00	35.00
Field Service Tech.	Each	1.00	1,600.00	1,600.00

Notes:

EFFECTIVE SEPTEMBER 24th, 2021

To keep up with growth, we moved again.
Please update your records.
29770 HUDSON DRIVE
NOVI, MI 48377
586-978-7200

Non-Taxable Amount:	3,898.20
Taxable Amount:	0.00
Sales Tax:	0.00
Total Invoice	3,898.20
Payments/Credits:	0.00
Amount Due	3,898.20



Electric Actuator Inspection

Electric Operator

Project Name	Chapaton PS	HESCO Service #	20211734
Location	32001 E 9 Mile Rd, St. Clair Shores, MI 48080	Date	12/16/2021
Manufacturer	AUMA	Gate Size	12'X12'
Model	SABV16.1	Operator Type	Electric
Serial Number	A0250580601	Tag #	Gate #2

Operator Installation Check (verify the following before operating equipment):

#	Description	OK, N/A or comment
1	Area and equipment is clean and clear of construction debris and materials which may impact actuation of the electric operator	Ok
2	Hardware attaching the electric operator to the equipment is tightened securely	Ok
3	Operating Nut is securely located in the operating device	Ok
4	Manual input device (handwheel or crank) is attached and fits properly, declutching lever is in good working order	Ok
5	Operator has lube port installed and is filled with the proper lubricant	Ok
6	Operator drive base, if any, has been greased per the manufacturer's recommendations	Ok
7	Breather, if any required by the manufacturer, is installed	N/A
8	Ancillary and sub-ordinate gearboxes, gear reducers, if any, installed and fastened securely to operator and to mounting base	Ok
9	Gearboxes/reducers, if any, grease to refusal at the grease fitting	Ok
10	Electrical power of the correct voltage, amps, hertz, and phase is brought to the unit, and properly terminated. See nameplate data	Ok
11	Any/all additional control or data wiring has been properly terminated at the operator	Ok
12	9 Volt battery, if necessary, is installed in the operator	N/A
13	Wiring conduits are properly sealed to prevent the intrusion of water through the conduits to the operator	Ok
14	Inspect operator for evidence of water infiltration	Ok
15	Operator coating (paint) is in good condition	Ok
<p>Note: This document does not cover the actuated equipment (gate, valve, etc) or operating stem. Please see additional checklist/documents for checking the actuated equipment and stem</p>		

Close Direction	Clockwise	<input checked="" type="checkbox"/>	Counterclockwise	<input type="checkbox"/>
Seating	Torque		Limit	<input checked="" type="checkbox"/>
Torque Setting	Open %	30-88 ft/lbs	Close %	30-88 ft/lbs
Travel Limits	Open Set	Yes	Close Set	Yes
Analog Feedback	Open mA	N/A	Close mA	N/A

29770 Hudson Dr.
 Novi, MI 48377
 586-978-7200
www.hesco-mi.com



Operator Operational Check (verify the following during initial operation):

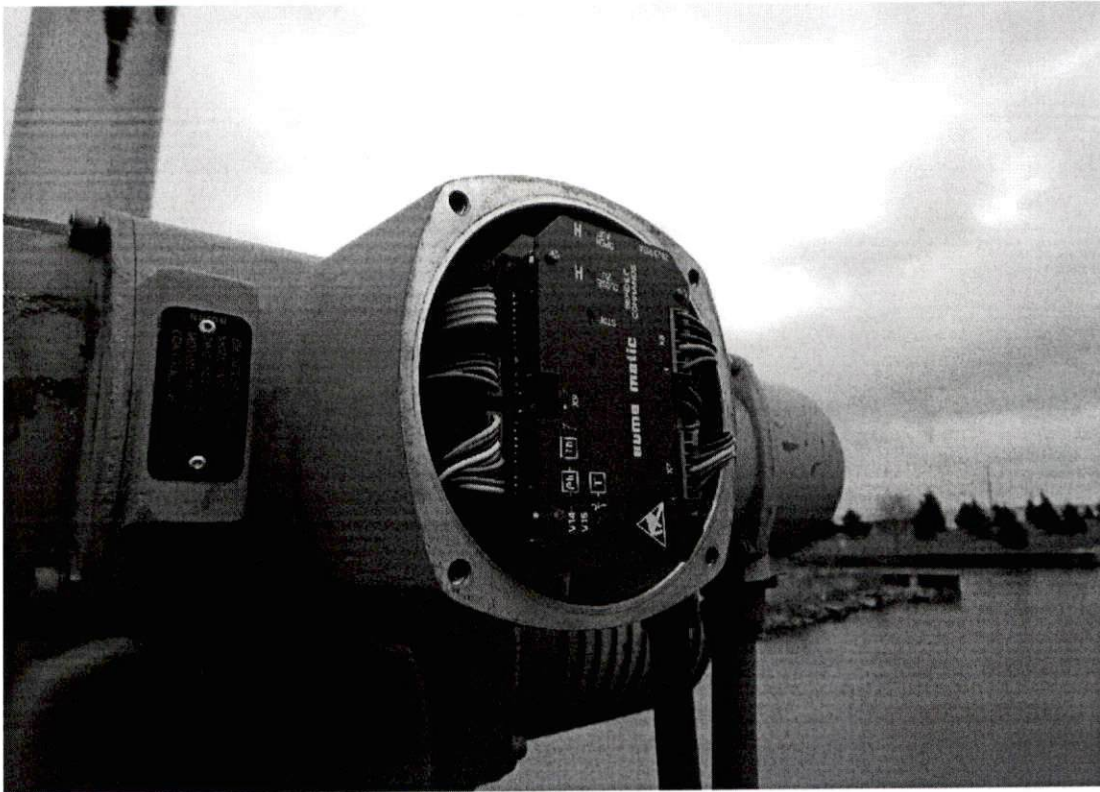
#	Description	
	<i>Note: These instructions are written for the electric operator only, they presume that the actuated equipment (gate, valve, etc) and stem will be inspected See other checklists for the actuated equipment</i>	
16	All fasteners remain tight and bolted/mounted connections do not move during operation	Ok
17	The stem threads (properly lubricated, see other checklists for into) move through the operator cleanly and evenly	Ok
18	Declutch lever will engage manual gearing and allow for gate/valve movement	Ok
19	A 40# effort at the handcrank/handwheel is sufficient to operate the gate or valve during non-powered operation	Ok
20	With power applied, electric operator lights and display panel indicate normal condition and ready status of the operator	Ok
21	Operator limit switches are properly set for normal operation of the gate/valve and proper shut-down at ends of gate/valve travel	Not Tested
22	Torque switches are set to protect the actuator and the actuated equipment	Ok
23	Functional testing (local, remote, stop, open, close switch functions, etc) has been completed and proper indicating light functions and display information are evident	Ok
24	Disconnect switch will remove power from the actuator	Ok
25	Upon restoration of power the actuator will run its self diagnostics and the display and light will return to the indicating valve position.	Ok

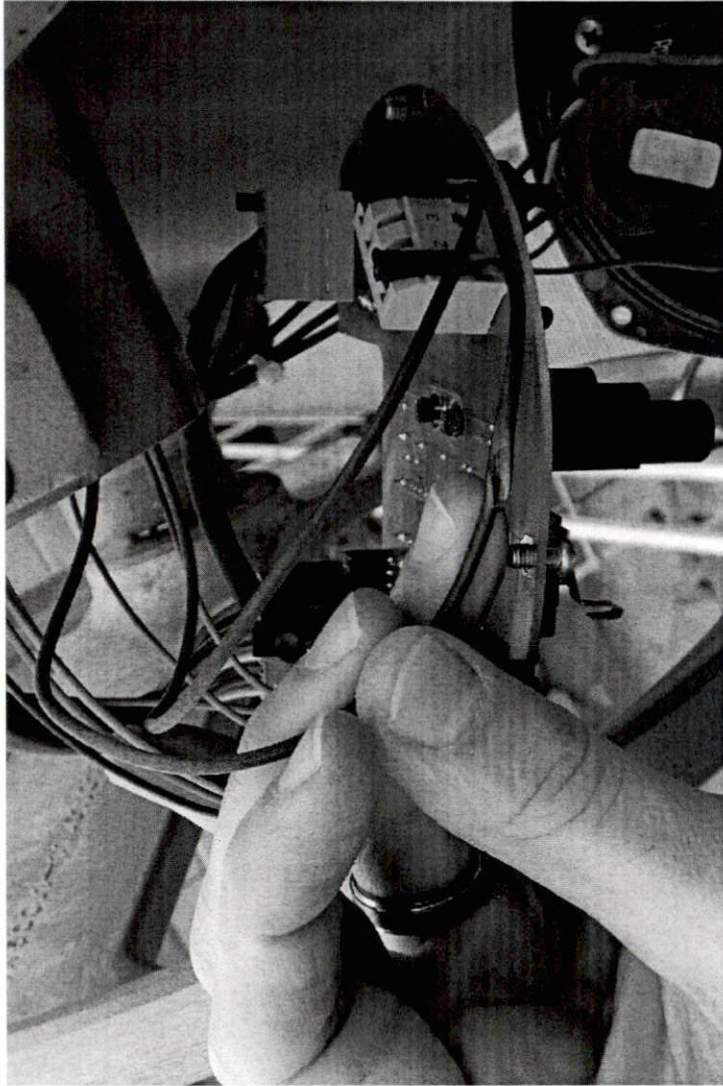
Comments or Notes

Confirmed proper LOTO to the actuator prior to repairs. Replaced Control Board Stack and found that we have another Fault.
Removed the Push Button assembly and found a wire pinched and not making contact.
Cleaned up the wire and properly terminated to the board.
Powered up the actuator and tested. Confirmed Local & Remote operation.
Power Board Stack P/N: SPA5.001
Thus completes the service requested by the customer.

Signature and Date

Print Name	John Sullens	Date	12/16/2021
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PURCHASE ORDER NO.

PW000211

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

Vendor: **V084851**
HAMLETT ENGINEERING SALES CO INC
dba HESCO GROUP INC
29770 HUDSON DR
NOVI, MI 48377

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

Requested by: Michelle Houvener

Req. Dt: 11/09/2021

ITEMS

ITEM #	ORGKEY	OBJECT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
0001	8210017M	93002	AUMA SPA5.001 AUMA AM Board ASSY 460/115 Interface No E	2.00		1,131.60	2,263.20
0002	8210017M	93002	Field Service Tech	1.00		1,600.00	1,600.00
0003	8210017M	93002	Quote #1078-1 Heather Walker	1.00		0.00	0.00
						TOTAL	\$3,863.20

BILL TO:

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

Bruce Manning / mh

AUTHORIZED AGENT

Print Date: 11/18/2021

QUOTE



Knowledgeable • Professional • Attentive • Likeable

29770 Hudson Drive Novi, MI 48377
Phone: (586) 978-7200
hesco-mi.com

TO: Kristopher Benda
Macomb County Public Works Commission
21777 Dunham Rd
Clinton Twp MI 48036

Tuesday, November 9, 2021

QUOTE #: 1078-1
SALESPERSON: Heather Walker

kristofer.benda@macombgov.org

Chapaton Outfall Gate AUMA repair

LINE ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	LINE TOTAL
1.00	AUMA SPA5.001 AUMA AM Board ASSY 460/115 Interface No E	2		\$1,131.60	\$2,263.20
2.00	Field Service Technicians Two service technicians for 1/2 day to install AUMA board and reset actuator limits	1		\$1,600.00	\$1,600.00
SUBTOTAL:					\$3,863.20
MI SALES TAX:					0.00
TOTAL:					\$3,863.20

Ship Via:	Best Way FOB Factory	Shipping Terms:	Pre-Paid & Added to Invoice
-----------	-------------------------	-----------------	-----------------------------

Payment Terms:	Net 30	Quote Valid Through:	12/16/2021
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Lead Time:	Shipment: 2-3 Weeks ARA
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If favored with a Purchase Order, please issue it to:

HESCO
29770 Hudson Drive
Novi, MI 48377

and email it to the Salesperson listed above in the quote header.

END QUOTE



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	2/1/22
4. SET ID		5. POST DATE
VP220207KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Hamlett dba HESCO	V084851	01	202113260	11/18/2021	\$ 800.00

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	AUMA troubleshooting	\$ 800.00	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 800.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
--	--



Check

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

Invoice No. 202113260

Date: 11/18/2021

Billed To: Macomb County Public Works Commission
Finance Dept
21777 Dunham Rd
Clinton Twp MI 48036

Project: 20211734S Chapaton PS Actuator TS

Contact: Kris Benda P.O.# Verbal K. Benda Salesperson: Heather Walker Due Date: 12/18/2021

Description	Unit	Qty	Rate	Amount
Field Service Technician 1/2 Day of field service to perform AUMA actuator troubleshooting.	Half Da	1.00	800.00	800.00

Notes:
Field Service Sheet Enclosed

V66420

EFFECTIVE SEPTEMBER 24th, 2021
To keep up with growth, we moved again.
Please update your records.
29770 HUDSON DRIVE
NOVI, MI 48377
586-978-7200

Non-Taxable Amount:	800.00
Taxable Amount:	0.00
Sales Tax:	0.00
Total Invoice	800.00
Payments/Credits:	0.00
Amount Due	800.00



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	2/1/22
4. SET ID		5. POST DATE
VP 220207 KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
In Motion, Inc.	V085450	01	H-1004	1/24/2022	\$ 1,305.00

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	72613	CC0004	72613	WO18006	8 1/2 MILE RELIEF	Preventative Maintenance	\$ 1,044.00	GEN		
B	8210072M	72613				Martin	Preventative Maintenance	\$ 261.00	GEN		0
C											
D											
E											
F											
G											

23. Total: \$ 1,305.00

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BH/KK</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 MILE RELIEF; Martin</u></p> <p>31. Project Balance: _____</p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
--	---

IN MOTION, INC.
 14489 APPLETREE LN
 FENTON, MI 48430 US
 +1 8106601435
 admin@inmotionincusa.com

Invoice

BILL TO
Macomb County Public Works 23001 E 9 Mile Rd St. Clair Shores, MI 48080

SHIP TO
Macomb County Public Works 23001 E 9 Mile Rd St. Clair Shores, MI 48080

INVOICE #	DATE	TOTAL DUE	DUE DATE	TERMS	ENCLOSED
H-1004	01/24/2022	\$1,305.00	02/23/2022	Net 30	

SALES REP
 Kristofer Benda

CURRENCY
 USD

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
01/24/2022	MM Service Call	Preventative Maintenance	9	145.00	1,305.00

Quote 22-8-0326

BALANCE DUE

\$1,305.00

We appreciate your prompt payment!

8.5
 WO 18006
 CC0004

~~80~~ V085450

\$1044 80% Chapaton 8210017M
 \$ 261 20% Martin 8210072M

} per Kreis

72613



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	1/25/22
4. SET ID		5. POST DATE
VP220126KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Lardner Elevator	V02788	01	192902	1/16/2022	\$ 925.00

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	93005	CC0004	93005	WO18006	8 1/2 Mile Relief	Acct#00-6198-3, Category 1 Test	\$ 925.00	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 925.00 REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

Category 1 Test - #231 & #237


<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
--	--

LARDNER ELEVATOR

729 Meldrum, Detroit, MI 48207
 Phone: (313) 568-1600 Fax: (313) 568-0488
 Email: info@lardnerelevator.com
 www.lardnerelevator.com

INVOICE

Invoice #
192902

Bill To: 
 Chapaton Pump Station
 21777 Dunham Rd.
 Attn: Macomb Co. Public Works
 Clinton Twp, MI 48036

Account: Chapaton Pump Station
 23001 E. Nine Mile
 St. Clair Shores, MI 48080
 Account #: 00-6198-3

Date	Jan 16, 2022	Terms	Upon Receipt	Route	196	Job #	3674
Inv #	192902	RO #		Territory	LECO	Type	Repair

Quantity	Description	Taxable	Measure	Price	Amount
1.00	Category 1 Test - #231 & 237	No	Each	925.00	\$925.00
Combined Invoice for Tickets #168204 (M231), 168205 (H237) No Load Test					
				Taxable	\$0.00
				Non-Taxable	\$925.00
				Sub-Total	\$925.00
				Sales Tax	\$0.00
				TOTAL	\$925.00

PLEASE DETACH THIS PORTION AND RETURN WITH PAYMENT



Lardner Elevator Company
 729 Meldrum
 Detroit, MI 48207

Account # 00-6198-3
 Chapaton Pump Station
 Invoice # 192902
 Amount \$ 925.00
 Paid \$

LARDNER ELEVATOR COMPANY - 729 Meldrum St. • Detroit, MI 48207-4323 • Ph: 313-568-1600 • Fax: 313-568-0488

Customer Name CHAPATON PUMP STATION Customer I.D. No. 00-10198-3 Date 1-5-21
 Address _____ Job No. 3074 Elevator No. 11101

Ticket No. <u>108204</u>	Employee Name and No. <u>STEVE ALEXIA 231</u>	Mileage <u>15</u>	Zone	Parking	Cartage	Other												
MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY		SUNDAY	
RT	OT	DT	RT	OT	DT	RT	OT	DT	RT	OT	DT	RT	OT	DT	OT	DT	OT	DT

Ticket No. <u>108205</u>	Employee Name and No. <u>BITV GARDER 237</u>	Mileage <u>15</u>	Zone	Parking	Cartage	Other												
MONDAY			TUESDAY			WEDNESDAY			THURSDAY			FRIDAY			SATURDAY		SUNDAY	
RT	OT	DT	RT	OT	DT	RT	OT	DT	RT	OT	DT	RT	OT	DT	OT	DT	OT	DT

Work Performed NO LOAD TEST

Recommendation _____

Materials _____

Exam
 Service Call
 Repair Work
 Construction
 Modernization
 FLT
 NLT
 Shop
 Chargeable Work Yes No
 Job Completed Yes No

Customer P.O. No. _____ Customer Signature N/A Print Name _____

We require our workmen to have their time approved by the customer or his representative. We allow our workmen actual time going to and from the job. 192902



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	2/1/22
4. SET ID		5. POST DATE
VP 220207 KA		

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
New Pig Corporation	V19005	01	23546437-00	1/24/2022	\$ 863.79

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	72699	CC0004	72699	WO18006	8 1/2 Mile Relief	Cust #4518863, Abs Pads	\$ 863.79	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 863.79

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

PIG Absorbent Mat Pad (7)

25. Finance Officer: BM/KK

26. Chief Deputy: _____

27. Engineers: _____

28. Managers: _____

29. Coordinator: _____

30. Drain: 8 1/2 Mile Relief

31. Project Balance: N/A

32. Staff Date: 2/8/2022

33. Board Date: 2/14/222

34. Select For Pay Date: _____



New Pig

One Pork Avenue
P.O. Box 304
Tipton, PA 16684-0304

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

U.S.A. Federal ID # 23-2363423
Cage Code IJA49

Ordered by

MACOMB COUNTY PUBLIC WORKS
23001 E 9 MILE RD
SAINT CLAIR SHORES, MI 48080-1576

CUSTOMER NUMBER	INVOICE NUMBER	INVOICE DATE
4518863	23546437-00	01/24/22

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

Please make checks payable to New Pig Corporation

TERMS	CUSTOMER PURCHASE ORDER NUMBER	ORDER DATE	SHIPPED VIA	DATE SHIPPED	PAGE	
Net 30 Days	VERB CHRIS BENDA	01/24/22	UPS Ground	01/24/22	1	
LINE	ITEM DESCRIPTION	QUANTITY ORDERED	QUANTITY SHIPPED	QUANTITY BACKORDERED	UNIT PRICE	TOTAL
1	MAT204 PIG Absorbent Mat Pad Lightweight, 15" x 20", 200 pads per bag	7	7	0	108.00	756.00
						SUB TOTAL 756.00
						Freight Out 107.79
						TOTAL U. S. Dollars 863.79
	REMIT IN U. S. Dollars New Pig Corporation One Pork Avenue Tipton, PA 16684					
	New Pig Corporation GST/HST account number is : 897107959 RT 0001. Interested in paying by EFT/ACH? Contact eftremittance@newpig.com .					



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	12/9/21
4. SET ID		5. POST DATE
VP22004KB		

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Premier Safety	V62291	01	04205744	12/8/2021	\$ 673.36

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	93002	CC0004	93002	WO18006	8 1/2 Mile Relief	Cust #1007555, Order #S4078593	\$ 505.02	GEN		
B	8210072M	93002				Martin	Cust #1007555, Order #S4078593	\$ 101.00	GEN		0
C	8713018M	93002			WO18218	SEMCWWDS (BH)	Cust #1007555, Order #S4078593	\$ 33.67	GEN		0
D	8713018M	93002			WO18219	SEMCWWDS (V)	Cust #1007555, Order #S4078593	\$ 33.67	GEN		0
E											
F											
G											

REV 09/2018

23. Total: \$ 673.36

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/mh</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>All Stations</u></p> <p>31. Project Balance: <u>N/A</u></p> <p>32. Staff Date: <u>1/11/2022</u></p> <p>33. Board Date: <u>N/A</u></p> <p>34. Select For Pay Date: _____</p>
--	--



33596 Sterling Ponds Blvd
Sterling Heights, MI 48312
PH 586-840-3200 FX 586-840-3201

REMIT TO
Premier Safety
PO Box 33757
Detroit MI 48232-3757

Repair Invoice

INVOICE #	04205744
LOCATION	04
DATE	12/30/21
PAGE	1 of 2

BILL TO

1007555
MACOMB CTY PUBLIC WORKS
ATTN:****EMAIL INVOICES****
21777 DUNHAM RD
CLINTON TOWNSHIP, MI 48036-1005

SHIP TO

MACOMB COUNTY WWTP
21777 DUNHAM RD
CLINTON TWP, MI 48036-1005

ORDER NUMBER S4078593	ORDER DATE 12/17/21	CUSTOMER P/O NUMBER CHAPATON	PAYMENT TERMS NET 30 DAYS
CUSTOMER SALES REP MIKE WYLIE	CONTACT CHRIS BENDA	SHIP VIA WILL CALL	
FREIGHT TERMS RENTAL & SERVICE PICKUP	JOB NUMBER	SALES PERSON DIMITRI PERVOLARAKIS	

PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
---------------------	---------------	------------------	----------------------	-------	-----	-----------

Model : C.MILLER.MIGHTEVACMR100
MILLER MIGHTEVAC MR100
Serial#: 502852

-----> Description Of Repair Job A <-----

ANNUAL INSPECTION IS REQUIRED.

-----> Solution Of Repair Job A <-----

A NEW 100' CABLE ASSEMBLY WAS INSTALLED.
THE SRL WAS INSPECTED & TESTED FOR PROPER OPERATION.

SRLRECERT SELF-RETRACTING LIFELINE CERTIFICATION	1	1	0	375.0000	EA	375.00
MFP6150053-Z7/100FT GALV CBLE ASSY'RL/MR100 ANSIZ7	1	1	0	228.5773	EA	228.58
MFP6150036 BRAKE PAWL	2	2	0	17.4500	EA	34.90
MFP6150004/50 COVER SCREW R110	8	8	0	1.5000	EA	12.00
MFP6150005/20 COVER SCREW R111	2	2	0	2.0000	EA	4.00
MFP6139844 FRONT LABEL FOR MR50 & MR100 MIGHTEVAC SRL, 20PK	1	1	0	13.8500	EA	13.85
MFP6150038	1	1	0	5.0250	EA	5.03

Continued



33596 Sterling Ponds Blvd
Sterling Heights, MI 48312
PH 586-840-3200 FX 586-840-3201

REMIT TO
Premier Safety
PO Box 33757
Detroit MI 48232-3757

Repair Invoice

INVOICE #	04205744
LOCATION	04
DATE	12/30/21
PAGE	2 of 2

BILL TO

1007555
MACOMB CTY PUBLIC WORKS
ATTN:****EMAIL INVOICES****
21777 DUNHAM RD
CLINTON TOWNSHIP, MI 48036-1005

SHIP TO

MACOMB COUNTY WWTP
21777 DUNHAM RD
CLINTON TWP, MI 48036-1005

ORDER NUMBER S4078593	ORDER DATE 12/17/21	CUSTOMER P/O NUMBER CHAPATON	PAYMENT TERMS NET 30 DAYS
CUSTOMER SALES REP MIKE WYLIE	CONTACT CHRIS BENDA	SHIP VIA WILL CALL	
FREIGHT TERMS RENTAL & SERVICE PICKUP	JOB NUMBER	SALES PERSON DIMITRI PERVOLARAKIS	

PRODUCT/DESCRIPTION	QUANTITY OPEN	QUANTITY SHIPPED	QUANTITY BACKORDERED	PRICE	U/M	EXTENSION
---------------------	---------------	------------------	----------------------	-------	-----	-----------

THRUST PAD (10 PK)

MATERIAL/LABOR	TAX	FREIGHT	INVOICE TOTAL
673.36	0.00	0.00	673.36

	www.PremierSafety.com	PAYMENT APPLIED	0.00
		CREDIT APPLIED	0.00
		BALANCE DUE	673.36



Mark A. Hackel
County Executive

ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	1/3/22

4. SET ID	5. POST DATE
VP220104KB	

PARENT RECORD INFORMATION

6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Tetra Tech, Inc.	V16060	02	51839269	12/31/2022	\$ 4,086.66

CHILD RECORD DETAIL INFORMATION

Line	General Ledger		Job Ledger		15. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80138	CC0033	80138	WO19004	8 1/2 Mile Relief	Pjt #200-16347-19001 thru 12/31/21	\$ 4,086.66	GEN		
B											
C											
D											
E											
F											
G											

REV 09/2018

23. Total: \$ 4,086.66

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:
In-System Storage Devices - MEDC GRANT BALANCE \$298,026.82

25. Finance Officer: <u>BM/mh</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 Mile Relief</u> 31. Project Balance: <u>\$54,934.19</u> 32. Staff Date: <u>1/11/2022</u> 33. Board Date: <u>2/14/2022</u> 34. Select For Pay Date: _____
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**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER WO19004

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

PROJECT NAME In-System Storage Devices

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

CONSULTANT NAME Tetra Tech of Michigan

INVOICE DATE 01/03/2022 (INVOICE 51839269)

INVOICE START DATE 11/27/2021

INVOICE END DATE 12/31/2021

ORIGINAL CONTRACT AMOUNT	\$ 481,098.00
CHANGE ORDER TOTAL	
Change Order No. 1	\$ 949,435.00
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 1,430,533.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 1,371,512.15
TOTAL AMOUNT DUE THIS INVOICE	\$ 4,086.66
TOTAL BUDGET REMAINING	\$ 54,934.19 ✓
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	

Grant Balance \$ 298,026.82



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

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

INVOICE NUMBER: 51839269
INVOICE DATE: 01/02/2022
SERVICES THROUGH: 12/31/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

ESA dated 10 July 2019
 Client Contact: Vince Astorino

PROFESSIONAL SERVICES:

Project Number 200-16347-19001 **In-System Storage Devices**
Top Task 02A **Project Management / Design**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Rubel, Brian M.	Program Manager	4.00	\$225.00	\$900.00
TOTAL LABOR		4.00		\$900.00
		SUBTOTAL		\$900.00

Total Top Task# 02A \$900.00

Top Task 02B **Design**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Kaliman, Roger G.	Sr Engineer 1	11.50	\$180.00	\$2,070.00
Weston, Cynthia A.	Project Administrator	1.00	\$90.00	\$90.00
TOTAL LABOR		12.50		\$2,160.00
		SUBTOTAL		\$2,160.00

OTHER DIRECT CHARGES	TYPE	CURRENT QUANTITY	UNIT RATE	CURRENT AMOUNT
Rubel, Brian M.	Mileage (unit)	105.64	\$0.56	\$59.16
TOTAL OTHER DIRECT CHARGES				\$59.16
		SUBTOTAL		\$59.16

Total Top Task# 02B \$2,219.16

Top Task 02BS_FTCH **Design - Subcontractor FTCH**

SUBCONTRACTOR	TYPE	CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External	\$260.00
TOTAL SUBCONTRACTOR CHARGES		\$260.00
		SUBTOTAL
		\$260.00

Total Top Task# 02BS_FTCH \$260.00

Top Task 02B_TCI **Design**

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

INVOICE NUMBER: 51839269
INVOICE DATE: 01/02/2022
SERVICES THROUGH: 12/31/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Robitaille, Luc	Engineer 3	0.50	\$250.00	\$125.00
Tremblay, Simon	Sr Engineer I&C	0.50	\$215.00	\$107.50
TOTAL LABOR		1.00		\$232.50
		SUBTOTAL		\$232.50

Total Top Task# 02B_TCI \$232.50

Top Task 02C Bidding

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Nolta, Michael C.	Project Administrator	0.50	\$90.00	\$45.00
Paison, William A.	Sr Engineer 1	2.00	\$215.00	\$430.00
TOTAL LABOR		2.50		\$475.00
		SUBTOTAL		\$475.00

Total Top Task# 02C \$475.00

Total Project# 200-16347-19001 \$4,086.66

TOTAL AMOUNT DUE THIS INVOICE: \$4,086.66

Gross Contract Summary	
Contract Amount	\$1,430,533.00
Previously Billed	\$1,371,512.15
Current Billing	\$4,086.66
Total Billed to Date	\$1,375,598.81
Contract Balance Remaining	\$54,934.19

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

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

ACH

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

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

Invoice : 406497
 Invoice Date : 11/30/2021
 Project : 200732
 Project Name : Macomb Co PW/In-system Storage
 Design Phase
 Bill Term : 1

For Professional Services Rendered Through 11/26/2021

P.O. 116652215

	Fee	Available	To Date	Previous	Current
1 - Task 1C - 8.5 Mile Utility Survey	96,524.00	3,651.20	93,132.80	92,872.80	260.00
Rate Labor		260.00			

Current Billings 260.00
 Amount Due This Bill 260.00

103976
 200 - 16347 - 19001 - 02BS - FICA
 sub. EXT
 200 LEW AA

OK to pay when paid
 B. Rubel
 12/3/21



Tetra Tech logo

1 - Task 1C - 8.5 Mile Utility Survey

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	2.00	130.0000	260.00
Total Rate Labor			260.00

Total Project: 200732 - Macomb Co PW/In-system Storage Design Phase 260.00



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Michelle Houvener	95966	1/3/22
4. SET ID		5. POST DATE
VP220104KB		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Tetra Tech, Inc.	V16060	02	51839271	1/3/2022	\$ 73,848.03

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80138	CC0034	80138	WO21018	8 1/2 Mile Relief	Pjt #200-16347-21002 thru 12/31/21	\$ 73,848.03	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 73,848.03

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/mh</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>\$1,027,207.28</u></p> <p>32. Staff Date: <u>1/11/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
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**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER **W021018**

PROJECT NUMBER **WWS-2021-004** (Tetra Tech Proj# 200-16347-21002)

PROJECT NAME 9 MILE PUMP STATION DESIGN

DRAINAGE DISTRICT 8 1/2 Mile Drainage District

CONSULTANT NAME Tetra Tech of Michigan

INVOICE DATE 1/3/2022 (INVOICE 51839271)

INVOICE START DATE 11/27/2021

INVOICE END DATE 12/31/2021

ORIGINAL CONTRACT AMOUNT	\$ 1,476,428.00
CHANGE ORDER TOTAL	
	-
Change Order No. 1	
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 1,476,428.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 375,372.69
TOTAL AMOUNT DUE THIS INVOICE	\$ 73,848.03
TOTAL BUDGET REMAINING	\$ 1,027,207.28 ✓
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



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

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

INVOICE NUMBER: 51839271
INVOICE DATE: 01/03/2022
SERVICES THROUGH: 12/31/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Client Contact: Vincent Astorino

PROFESSIONAL SERVICES:

Project Number	200-16347-21002	Design, Bidding, and Construction Services for Proposed Nine Mile Pump Station			
Top Task	001	Infrastructure Survey			
EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT	
Boehmke, Brett	Engineer 3	0.50	\$150.00	\$75.00	
Collingham, Melissa A.	Graphic Artist	14.50	\$110.00	\$1,595.00	
TOTAL LABOR		15.00		\$1,670.00	
		SUBTOTAL		\$1,670.00	
		Total Top Task# 001		\$1,670.00	
Top Task	002F	Topographic Survey FTCH			
SUBCONTRACTOR	TYPE			CURRENT AMOUNT	
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External			\$2,306.85	
TOTAL SUBCONTRACTOR CHARGES				\$2,306.85	
			SUBTOTAL	\$2,306.85	
		Total Top Task# 002F		\$2,306.85	
Top Task	003	Basis of Design			
EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT	
Kaliman, Roger G.	Sr Engineer 1	66.50	\$195.00	\$12,967.50	
Rubel, Brian M.	Program Manager	16.00	\$250.00	\$4,000.00	
Voss, Justin D.	Project Engineer 1	1.00	\$195.00	\$195.00	
Weston, Cynthia A.	Project Administrator	10.00	\$100.00	\$1,000.00	
TOTAL LABOR		93.50		\$18,162.50	
		SUBTOTAL		\$18,162.50	
		Total Top Task# 003		\$18,162.50	
Top Task	003F	Basis of Design FTCH			
SUBCONTRACTOR	TYPE			CURRENT AMOUNT	
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External			\$6,560.40	
TOTAL SUBCONTRACTOR CHARGES				\$6,560.40	
			SUBTOTAL	\$6,560.40	

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

INVOICE NUMBER: 51839271
INVOICE DATE: 01/03/2022
SERVICES THROUGH: 12/31/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Total Top Task# 003F \$6,560.40

Top Task 004 Design 30%

<u>EMPLOYEE</u>	<u>TITLE</u>	<u>CURRENT LABOR HOURS</u>	<u>LABOR RATE</u>	<u>CURRENT LABOR AMOUNT</u>
Paison, William A.	Sr Engineer 1	6.00	\$225.00	\$1,350.00
Sissoko, Moussa D.	Project Engineer 2	2.75	\$180.00	\$495.00
TOTAL LABOR		8.75		\$1,845.00
		SUBTOTAL		\$1,845.00

Total Top Task# 004 \$1,845.00

Top Task 004E Design 30% FKE

<u>SUBCONTRACTOR</u>	<u>TYPE</u>	<u>CURRENT AMOUNT</u>
FK ENGINEERING ASSOCIATES	Subcontractor-External	\$28,743.75
TOTAL SUBCONTRACTOR CHARGES		\$28,743.75
	SUBTOTAL	\$28,743.75

Total Top Task# 004E \$28,743.75

Top Task 004F Design 30% FTCH

<u>SUBCONTRACTOR</u>	<u>TYPE</u>	<u>CURRENT AMOUNT</u>
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External	\$12,579.53
TOTAL SUBCONTRACTOR CHARGES		\$12,579.53
	SUBTOTAL	\$12,579.53

Total Top Task# 004F \$12,579.53

Top Task 004I Design 30% CBI

<u>EMPLOYEE</u>	<u>TITLE</u>	<u>CURRENT LABOR HOURS</u>	<u>LABOR RATE</u>	<u>CURRENT LABOR AMOUNT</u>
Biagi, James Q.	Project Manager 2	4.00	\$195.00	\$780.00
D'Isabella, Linda A.	Architect	8.00	\$150.00	\$1,200.00
TOTAL LABOR		12.00		\$1,980.00
	SUBTOTAL			\$1,980.00

Total Top Task# 004I \$1,980.00

Total Project# 200-16347-21002 \$73,848.03

TOTAL AMOUNT DUE THIS INVOICE: \$73,848.03

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

INVOICE NUMBER: 51839271
INVOICE DATE: 01/03/2022
SERVICES THROUGH: 12/31/2021
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Gross Contract Summary	
Contract Amount	\$1,476,428.00
Previously Billed	\$375,372.69
Current Billing	\$73,848.03
Total Billed to Date	\$449,220.72
Contract Balance Remaining	\$1,027,207.28

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

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

ACH

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

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

Invoice: 406488
Invoice Date: 11/30/2021
Project: 210764
Project Name: Macomb Co PW/9 Mile Pump Station
Bill Term: 1

For Professional Services Rendered Through 11/26/2021

P.O. 1181485! X

	Fee	Available	To Date	Previous	Current
1 - Task 1 - Infrastructure Survey - 3D Scan	44,000.00	97.00	43,903.00	43,903.00	0.00
2 - Task 2 - Topographical & Boundary Survey	53,000.00	31,294.95	22,633.05	21,705.05	.002F 928.00 (6)
Rate Labor		928.00			
3 - Task 3 - Basis of Design	29,500.00	12,180.00	23,081.00	17,320.00	.003F 5,761.00 (2)
Rate Labor		5,761.00			
4 - Task 4 - 30% Design	49,500.00	31,917.50	29,447.00	17,582.50	.004F 11,864.50 (1)
Rate Labor		11,864.50			
5 - Task 5 - CMAA Bidding	0.00	0.00	0.00	0.00	0.00
6 - Task 6 - Final Design	0.00	0.00	0.00	0.00	0.00
				Current Billings	18,553.50
				Amount Due This Bill	18,553.50

103976

200-16347-21002. XXX

sub. EXT

200 NEW AT

OK to pay when paid
 B. Rubel
 11/30/21



PAID

2 - Task 2 - Topographical & Boundary Survey

Rate Labor

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer	3.00	184.0000	552.00
	1.00	202.0000	202.00
Total Senior Engineer	4.00		754.00
Senior Technician	1.50	116.0000	174.00
Total Rate Labor			928.00

Total Bill Task: 2 - Task 2 - Topographical & Boundary Survey

928.00

3 - Task 3 - Basis of Design

Rate Labor

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer	2.00	202.0000	404.00
	3.00	184.0000	552.00
Total Senior Engineer	5.00		956.00
Senior Engineering Specialist	1.00	155.0000	155.00
Senior Estimator	10.00	171.0000	1,710.00
Technician	30.00	98.0000	2,940.00
Total Rate Labor			5,761.00

Total Bill Task: 3 - Task 3 - Basis of Design

5,761.00

4 - Task 4 - 30% Design

Rate Labor

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Engineer	10.50	139.0000	1,459.50
Production Support	4.50	86.0000	387.00
Senior Engineer	53.50	184.0000	9,844.00
Senior Technician	1.50	116.0000	174.00
Total Rate Labor			11,864.50

Total Bill Task: 4 - Task 4 - 30% Design

11,864.50

Total Project: 210764 - Macomb Co PW/9 Mile Pump Station

18,553.50

ACH

Payment Options

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

P.O. 1181485: X

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

Invoice: 407247
Invoice Date: 12/28/2021
Project: 210764
Project Name: Macomb Co PW/9 Mile Pump Station
Bill Term: 1

For Professional Services Rendered Through 12/24/2021

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1 - Infrastructure Survey - 3D Scan	44,000.00	97.00	43,903.00	43,903.00	0.00
2 - Task 2 - Topographical & Boundary Survey	53,000.00	30,366.95	23,902.05	22,633.05	1,269.00 (6)
Rate Labor	1,269.00				
3 - Task 3 - Basis of Design	29,500.00	6,419.00	23,568.00	23,081.00	487.00 (2)
Rate Labor	487.00				
4 - Task 4 - 30% Design	49,500.00	20,053.00	29,563.00	29,447.00	116.00 (1)
Rate Labor	116.00				
5 - Task 5 - CMaR Bidding	0.00	0.00	0.00	0.00	0.00
6 - Task 6 - Final Design	0.00	0.00	0.00	0.00	0.00
Current Billings					<u>1,872.00</u>
Amount Due This Bill					<u>1,872.00</u>

OK to pay
 when paid.
 B. Rubel
 12/28/21

103976
 200 - 16347 - 21002
 (6) .002F - 1269.00
 (2) .003F - 487.00
 (1) .004F - 116.00
 SUB-EXT



200 REL AA

DWP

2 - Task 2 - Topographical & Boundary Survey

Rate Labor

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer	1.50	184.0000	276.00
Senior Surveyor	4.00	145.0000	580.00
	1.00	155.0000	155.00
Total Senior Surveyor	5.00		735.00
Staff Survey Specialist	3.00	86.0000	258.00
Total Rate Labor			1,269.00

Total Bill Task: 2 - Task 2 - Topographical & Boundary Survey

1,269.00

3 - Task 3 - Basis of Design

Rate Labor

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer	1.50	202.0000	303.00
	1.00	184.0000	184.00
Total Senior Engineer	2.50		487.00
Total Rate Labor			487.00

Total Bill Task: 3 - Task 3 - Basis of Design

487.00

4 - Task 4 - 30% Design

Rate Labor

<i>Class</i>	<i>Hours</i>	<i>Rate</i>	<i>Amount</i>
Senior Technician	1.00	116.0000	116.00
Total Rate Labor			116.00

Total Project: 210764 - Macomb Co PW/9 Mile Pump Station

1,872.00



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

INVOICE

Invoice Date: 12/14/21
 Total Amount: \$27,375.00
 Number: 21-078-004
 Invoice Period: 11/07/21 - 12/11/21
 PO Number: Project #200-16347-21002
 Project Code: 21-078
 Project: Macomb Nine Mile Pump Station

Tetra Tech

1005 River Street, Suite 1
 Port Huron, MI 48079

184671
200-16347-21002.00AE
Sub-EXT
200 NEW AA

INVOICE SUMMARY

P.O. 1181484!1

Description	Amount
Basis of Design	--
30% Design (including SUE)	\$27,375.00
Final Design	--
9 Mile Sewer Repair	--
Subtotal	\$27,375.00

Description	Total Budget	Total % Complete	Prior Billing (\$)	This Invoice (\$)
Basis of Design	\$20,000.00	100.00%	\$20,000.00	--
30% Design (including Sue)	\$73,000.00	50.50%	\$9,490.00	\$27,375.00
Final Design	\$22,000.00	--	--	--
9 Mile Sewer Repair	--	--	--	--
BUDGET TOTALS	\$115,000.00		\$29,490.00	\$27,375.00
TOTAL AMOUNT DUE				\$27,375.00

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



OK to pay when paid
B. Reuhl
12/15/21

DP



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	2/3/22
4. SET ID		5. POST DATE
VP220207KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Tetra Tech, Inc.	V16060	0201	51851496	2/1/2022	\$ 4,736.66

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80138	CC0033	80138	WO19004	8 1/2 Mile Relief	Pjt #200-16347-19001 thru 1/28	\$ 4,736.66	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 4,736.66 REV 09/2018

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

25. Finance Officer: <u>BM/kk</u> 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 Mile Relief</u> 31. Project Balance: <u>\$1,075,171.53</u> 32. Staff Date: <u>2/8/2022</u> 33. Board Date: <u>2/14/2022</u> 34. Select For Pay Date: _____
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**MACOMB COUNTY PUBLIC WORKS OFFICE
ENGINEERING INVOICE COVER SHEET**

WORK ORDER NUMBER	WO19004	
PROJECT NUMBER	WWS-2019-003	(Tetra Tech# 200-16347-19001)
PROJECT NAME	In-System Storage Devices	
DRAINAGE DISTRICT	Eight and One-Half Mile Relief Drain Drainage District	
CONSULTANT NAME	Tetra Tech of Michigan	
INVOICE DATE	02/01/2022 (INVOICE 51851496)	
INVOICE START DATE	1/1/2022	
INVOICE END DATE	1/28/2022	
ORIGINAL CONTRACT AMOUNT	\$	481,098.00
CHANGE ORDER TOTAL	\$	1,974,409.00
Change Order No. 1	\$	949,435.00
Change Order No. 2	\$	1,024,974.00
Change Order No. 3		
Change Order No. 4		
TOTAL REVISED CONTRACT AMOUNT	\$	2,455,507.00
(includes all approved change orders only)		
TOTAL AMOUNT PREVIOUSLY INVOICED	\$	1,375,598.81
TOTAL AMOUNT DUE THIS INVOICE	\$	4,736.66
TOTAL BUDGET REMAINING	\$	1,075,171.53
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)		



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

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

INVOICE NUMBER: 51851496
INVOICE DATE: 02/01/2022
SERVICES THROUGH: 01/28/2022
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

ESA dated 10 July 2019; Project WWS-2019-003

PROFESSIONAL SERVICES:

Project Number	200-16347-19001	In-System Storage Devices			
Top Task	02A	Project Management / Design			
EMPLOYEE		TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Rubel, Brian M.		Program Manager	2.00	\$250.00	\$500.00
TOTAL LABOR			2.00		\$500.00
			SUBTOTAL		\$500.00
OTHER DIRECT CHARGES		TYPE	CURRENT QUANTITY	UNIT RATE	CURRENT AMOUNT
Rubel, Brian M.		Mileage (unit)	105.64	\$0.56	\$59.16
TOTAL OTHER DIRECT CHARGES					\$59.16
			SUBTOTAL		\$59.16
				Total Top Task# 02A	\$559.16
Top Task	02BS_FTCH	Design - Subcontractor FTCH			
SUBCONTRACTOR		TYPE			CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC		Subcontractor-External			\$932.50
TOTAL SUBCONTRACTOR CHARGES					\$932.50
				SUBTOTAL	\$932.50
				Total Top Task# 02BS_FTCH	\$932.50
Top Task	02B_TCI	Design			
EMPLOYEE		TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Lortz, Thomas J.		CAD Designer	8.00	\$140.00	\$1,120.00
Robitaille, Luc		Engineer 3	0.50	\$250.00	\$125.00
TOTAL LABOR			8.50		\$1,245.00
			SUBTOTAL		\$1,245.00
				Total Top Task# 02B_TCI	\$1,245.00
Top Task	02C	Bidding			

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

INVOICE NUMBER: 51851496
INVOICE DATE: 02/01/2022
SERVICES THROUGH: 01/28/2022
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Kaliman, Roger G.	Sr Engineer 1	2.00	\$210.00	\$420.00
Rubel, Brian M.	Program Manager	4.00	\$250.00	\$1,000.00
TOTAL LABOR		6.00		\$1,420.00
		SUBTOTAL		\$1,420.00

Total Top Task# 02C \$1,420.00

Top Task 03 Construction Administration

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Boehmke, Brett	Engineer 3	1.00	\$120.00	\$120.00
Sissoko, Moussa D.	Project Engineer 2	2.00	\$230.00	\$460.00
TOTAL LABOR		3.00		\$580.00
		SUBTOTAL		\$580.00

Total Top Task# 03 \$580.00

Total Project# 200-16347-19001 \$4,736.66

TOTAL AMOUNT DUE THIS INVOICE: \$4,736.66

Gross Contract Summary	
Contract Amount	\$2,455,507.00
Previously Billed	\$1,375,598.81
Current Billing	\$4,736.66
Total Billed to Date	\$1,380,335.47
Contract Balance Remaining	\$1,075,171.53

REMIT PAYMENT TO:

TETRA TECH, INC.
 PO BOX 911967
 DENVER, CO 80291-1967

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

Payment Options

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

ACH

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

Invoice: 407296
 Invoice Date: 12/28/2021
 Project: 200732
 Project Name: Macomb Co PW/In-system Storage
 Design Phase
 Bill Term: 1

For Professional Services Rendered Through 12/24/2021

1 - Task 1C - 8.5 Mile Utility Survey
 Rate Labor 932.50

	Billings			
	Fee	Available	To Date	Previous
	96,524.00	3,391.20	94,065.30	93,132.80
				932.50

Current Billings 932.50
 Amount Due This Bill 932.50

P.O. 1166522:5

103976

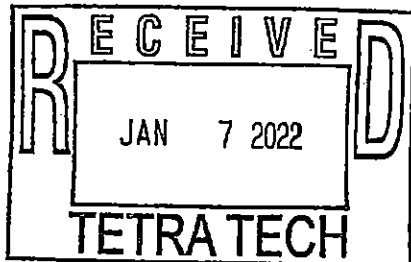
200-16347-19001.0205-FTCH

Sub - EST

200 FEW AA

OK to pay when paid

B. Rubel
 1/3/22



PWD

1 - Task 1C - 8.5 Mile Utility Survey

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	6.50	130.0000	845.00
	0.50	175.0000	87.50
Total Senior Engineer	7.00		932.50
		Total Rate Labor	932.50
Total Bill Task: 1 - Task 1C - 8.5 Mile Utility Survey			932.50

Total Project: 200732 - Macomb Co PW/In-system Storage Design Phase

932.50



ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	2/3/22
4. SET ID		5. POST DATE
VP220207KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Tetra Tech, Inc.	V16060	0201	51851506	2/1/2022	\$ 69,388.98

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017M	80138	CC0034	80138	WO21018	8 1/2 Mile Relief	Pjt #200-16347-21002 thru 1/28	\$ 69,388.98	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 69,388.98

REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

<p>25. Finance Officer: <u>BM/kk</u></p> <p>26. Chief Deputy: _____</p> <p>27. Engineers: _____</p> <p>28. Managers: _____</p> <p>29. Coordinator: _____</p>	<p>30. Drain: <u>8 1/2 Mile Relief</u></p> <p>31. Project Balance: <u>\$957,818.30</u></p> <p>32. Staff Date: <u>2/8/2022</u></p> <p>33. Board Date: <u>2/14/2022</u></p> <p>34. Select For Pay Date: _____</p>
--	---

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

WORK ORDER NUMBER	
PROJECT NUMBER	WWS-2021-004 (Tetra Tech Proj# 200-16347-21002)
PROJECT NAME	9 MILE PUMP STATION DESIGN
DRAINAGE DISTRICT	8 1/2 Mile Drainage District
CONSULTANT NAME	Tetra Tech of Michigan
INVOICE DATE	2/1/2022 (INVOICE 51851506)
INVOICE START DATE	1/1/2022
INVOICE END DATE	1/28/2022
ORIGINAL CONTRACT AMOUNT	\$ 1,476,428.00
CHANGE ORDER TOTAL	
	\$ -
Change Order No. 1	
Change Order No. 2	
Change Order No. 3	
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 1,476,428.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 449,220.72
TOTAL AMOUNT DUE THIS INVOICE	\$ 69,388.98
TOTAL BUDGET REMAINING	\$ 957,818.30
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



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

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

INVOICE NUMBER: 51851506
INVOICE DATE: 02/01/2022
SERVICES THROUGH: 01/28/2022
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Proj WWS-2021-004

Client Contact: Vincent Astorino

PROFESSIONAL SERVICES:

Project Number 200-16347-21002 **Design, Bidding, and Construction Services for Proposed Nine Mile Pump Station**

Top Task 003 **Basis of Design**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Kaliman, Roger G.	Sr Engineer 1	58.00	\$195.00	\$11,310.00
Lortz, Thomas J.	CAD Designer	6.00	\$95.00	\$570.00
Rubel, Brian M.	Program Manager	4.00	\$250.00	\$1,000.00
Voss, Justin D.	Project Engineer 1	0.50	\$195.00	\$97.50
Weston, Cynthia A.	Project Administrator	11.50	\$100.00	\$1,150.00
TOTAL LABOR		80.00		\$14,127.50
		SUBTOTAL		\$14,127.50
		Total Top Task# 003		\$14,127.50

Top Task 003F **Basis of Design FTCH**

SUBCONTRACTOR	TYPE	CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External	\$6,207.50
TOTAL SUBCONTRACTOR CHARGES		\$6,207.50
	SUBTOTAL	\$6,207.50
	Total Top Task# 003F	\$6,207.50

Top Task 004 **Design 30%**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Boehmke, Brett	Engineer 3	37.00	\$150.00	\$5,550.00
Clinard, Samuel	Engineer 1	18.00	\$150.00	\$2,700.00
Hernandez Davila, Albert D.	Engineer 1	26.50	\$150.00	\$3,975.00
Melling, Vickie L.	CAD Technician 3	12.00	\$95.00	\$1,140.00
Paison, William A.	Sr Engineer 1	5.50	\$225.00	\$1,237.50
Sissoko, Moussa D.	Project Engineer 2	22.00	\$180.00	\$3,960.00
Tervo, Jeffrey A.	CAD Technician 2	49.00	\$95.00	\$4,655.00
Valles Zubia, Ana Sofia	Technician 1	3.00	\$80.00	\$240.00
TOTAL LABOR		173.00		\$23,457.50
		SUBTOTAL		\$23,457.50

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

INVOICE NUMBER: 51851506
INVOICE DATE: 02/01/2022
SERVICES THROUGH: 01/28/2022
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Total Top Task# 004 **\$23,457.50**

Top Task 004E Design 30% FKE

SUBCONTRACTOR	TYPE	CURRENT AMOUNT
FK ENGINEERING ASSOCIATES	Subcontractor-External	\$11,550.00
TOTAL SUBCONTRACTOR CHARGES		\$11,550.00
	SUBTOTAL	\$11,550.00

Total Top Task# 004E **\$11,550.00**

Top Task 004F Design 30% FTCH

SUBCONTRACTOR	TYPE	CURRENT AMOUNT
FISHBECK THOMPSON CARR & HUBER INC	Subcontractor-External	\$2,141.48
TOTAL SUBCONTRACTOR CHARGES		\$2,141.48
	SUBTOTAL	\$2,141.48

Total Top Task# 004F **\$2,141.48**

Top Task 004I Design 30% CBI

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Biagi, James Q.	Project Manager 2	1.00	\$195.00	\$195.00
D'Isabella, Linda A.	Architect	19.00	\$150.00	\$2,850.00
Galante, David	Architect 2	1.00	\$150.00	\$150.00
Staniek, Marcella F.	Architectural Designer 3	6.00	\$140.00	\$840.00
TOTAL LABOR		27.00		\$4,035.00
	SUBTOTAL			\$4,035.00

Total Top Task# 004I **\$4,035.00**

Top Task 005 CMaR Bidding

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Rubel, Brian M.	Program Manager	4.00	\$250.00	\$1,000.00
TOTAL LABOR		4.00		\$1,000.00
	SUBTOTAL			\$1,000.00

Total Top Task# 005 **\$1,000.00**

Top Task 005I CMaR Bidding CBI

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
D'Isabella, Linda A.	Architect	8.50	\$150.00	\$1,275.00
Ungerer, Jacob	CAD Technician 2	48.00	\$90.00	\$4,320.00
TOTAL LABOR		56.50		\$5,595.00
	SUBTOTAL			\$5,595.00

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

INVOICE NUMBER: 51851506
INVOICE DATE: 02/01/2022
SERVICES THROUGH: 01/28/2022
FEDERAL TAX ID#: 95-4148514
TERMS: NET 30

Total Top Task# 005I **\$5,595.00**

Top Task **006I** **Final Design CBI**

EMPLOYEE	TITLE	CURRENT LABOR HOURS	LABOR RATE	CURRENT LABOR AMOUNT
Galante, David	Architect 2	1.00	\$150.00	\$150.00
Graf, Mitchell J.	Project Manager 2	5.00	\$225.00	\$1,125.00
TOTAL LABOR		6.00		\$1,275.00
		SUBTOTAL		\$1,275.00

Total Top Task# 006I **\$1,275.00**

Total Project# 200-16347-21002 **\$69,388.98**

TOTAL AMOUNT DUE THIS INVOICE: **\$69,388.98**

Gross Contract Summary	
Contract Amount	\$1,476,428.00
Previously Billed	\$449,220.72
Current Billing	\$69,388.98
Total Billed to Date	\$518,609.70
Contract Balance Remaining	\$957,818.30

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

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

Payment Options

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

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

Invoice: 408121
 Invoice Date: 1/26/2022
 Project: 210764
 Project Name: Macomb Co PW/9 Mile Pump Station
 Bill Term: 1

For Professional Services Rendered Through 1/21/2022

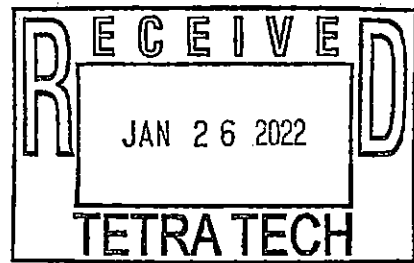
P.O. 1181485: X

	Fee	Available	Billings		
			To Date	Previous	Current
1 - Task 1 - Infrastructure Survey - 3D Scan	44,000.00	97.00	43,903.00	43,903.00	0.00
2 - Task 2 - Topographical & Boundary Survey	53,000.00	29,097.95	23,902.05	23,902.05	0.00
3 - Task 3 - Basis of Design	29,500.00	5,932.00	29,479.90	23,568.00	5,911.90 (2)
Rate Labor	5,340.00				
Unit Rate Expense	571.90				
4 - Task 4 - 30% Design	49,500.00	19,937.00	31,602.50	29,563.00	2,039.50 (1)
Rate Labor	2,039.50				
5 - Task 5 - CMAA Bidding	0.00	0.00	0.00	0.00	0.00
6 - Task 6 - Final Design	0.00	0.00	0.00	0.00	0.00
				Current Billings	<u>7,951.40</u>
				Amount Due This Bill	<u>7,951.40</u>

OK to pay when paid
 B Rubel
 1/26/22

103976

200-16347-21002
 (1) .004F - 2039.50
 (2) .003F - 5911.90
 sub. ext



200 FELS RA

ANP

3 - Task 3 - Basis of Design

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Engineer	6.00	139.0000	834.00
Senior Engineer	18.00	184.0000	3,312.00
	3.00	202.0000	606.00
Total Senior Engineer	21.00		3,918.00
Technician	6.00	98.0000	588.00
Total Rate Labor			5,340.00

Unit Rate Expenses

<u>Account / Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Company Vehicle Use			
Mileage - Company Vehicle	602.00	0.9500	571.90
Total Company Vehicle Use			571.90
Total Unit Rate Expenses			571.90

Total Bill Task: 3 - Task 3 - Basis of Design

5,911.90

4 - Task 4 - 30% Design

Rate Labor

<u>Class</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Engineer	13.00	139.0000	1,807.00
Senior Engineering Specialist	1.50	155.0000	232.50
Total Rate Labor			2,039.50

Total Bill Task 4 - Task 4 - 30% Design

2,039.50

Total Project: 210764 - Macomb Co PW/9 Mile Pump Station

7,951.40



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

INVOICE

Tetra Tech

1005 River Street, Suite 1
 Port Huron, MI 48079

184671
200-16347-21002.004E
SUB-EXT
200 NEW AA

Invoice Date: 01/06/22
 Total Amount: \$11,000.00
 Number: 21-078-005
 Invoice Period: 12/12/21 - 01/01/22
 PO Number: Project #200-16347-21002
 Project Code: 21-078
 Project: Macomb Nine Mile Pump Station

P.O. 1181484:1

INVOICE SUMMARY

Description	Amount
Basis of Design	--
30% Design (including Sue)	\$11,000.00
Final Design	--
9 Mile Sewer Repair	--

Description	Total Budget	Remaining Budget (\$)	Prior Billing (\$)	This Invoice (\$)
Basis of Design	\$20,000.00	--	\$20,000.00	--
30% Design (including Sue)	\$73,000.00	\$25,135.00	\$36,865.00	\$11,000.00
Final Design	\$22,000.00	\$22,000.00	--	--
9 Mile Sewer Repair	--	--	--	--
BUDGET TOTALS	\$115,000.00	\$47,135.00	\$56,865.00	\$11,000.00

TOTAL AMOUNT DUE **\$11,000.00**

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

OK to pay
when paid
B Rebel
1/7/22





ONESolution

ACCOUNTS PAYABLE CHECK REQUEST

PUBLIC WORKS DIVISION

1. PREPARED BY (Please Type)	2. PHONE #	3. DATE
Kellie Kource	95337	2/4/22
4. SET ID		5. POST DATE
VP220207KA		

PARENT RECORD INFORMATION					
6. VENDOR NAME (Check to be issued to)	7. VENDOR NUMBER	8. ADDR CODE	9. Invoice No (MAX = 16 CHARACTERS)	10. Invoice Date	11. Invoice Amount
Wade Trim	V09446	02	2023006	2/3/2022	\$ 2,297.50

CHILD RECORD DETAIL INFORMATION											
Line	General Ledger		Job Ledger		16. Work Order Number	OPTIONAL	18. Description (MAX = 30 CHARACTERS)	19. Amount	20. DIV	21. MISC	22. Sep CK
	12. Org Key	13. Object	14. Cost Center (CCNT)	15. Object		17. Secondary Reference (MAX = 16 CHARACTERS)					
A	8210017C	80138	CC0004	80138	WO19004	8 1/2 Mile Relief	Pjt #MCW200501T, 1/1-1/28	\$ 2,297.50	GEN		
B											
C											
D											
E											
F											
G											

23. Total: \$ 2,297.50 REV 09/2018

24. COMMENTS, INSTRUCTIONS OR ADDITIONAL NOTES:

Chapaton RTB Canal Upgrades

25. Finance Officer: _____ 26. Chief Deputy: _____ 27. Engineers: _____ 28. Managers: _____ 29. Coordinator: _____	30. Drain: <u>8 1/2 Mile Relief</u> 31. Project Balance: <u>\$237,782.83(Grant Balance: \$1,249,903.17)</u> 32. Staff Date: <u>2/8/2022</u> 33. Board Date: <u>2/14/2022</u> 34. Select For Pay Date: _____
--	---

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

WORK ORDER NUMBER	19004
PROJECT NUMBER	WWS-2019-002
PROJECT NAME	Chapaton RTB Canal Upgrades
DRAINAGE DISTRICT	Eight and One-Half Mile
CONSULTANT NAME	Wade Trim Associates, Inc.
INVOICE DATE	2/3/2022
INVOICE START DATE	1/1/2022
INVOICE END DATE	1/28/2022
ORIGINAL CONTRACT AMOUNT	\$ 977,611.00
CHANGE ORDER TOTAL	\$ 510,075.00
Change Order No. 1	\$ 75,000.00
Change Order No. 2	\$ 335,263.00
Change Order No. 3	\$ 99,812.00
Change Order No. 4	
TOTAL REVISED CONTRACT AMOUNT	\$ 1,487,686.00
(includes all approved change orders only)	
TOTAL AMOUNT PREVIOUSLY INVOICED	\$ 1,247,605.67
TOTAL AMOUNT DUE THIS INVOICE	\$ 2,297.50
TOTAL BUDGET REMAINING	\$ 237,782.83
(Includes Total Revised Contract Amount Less Total Invoiced Previously and Total Invoiced Current)	



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

INVOICE

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

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

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

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

Invoice : 2023006
Invoice Date : 2/3/2022
Project : MCW200501T
Project Name : Chapaton RTB Canal Upgrades

For Professional Services Rendered For 1/1/2022 Through 1/28/2022

** All subconsultant invoices marked up 5% **

	Fee	Available	Billings			
			To Date	Previous	Current	
Rate Labor	2,297.50	1,487,686.00	240,080.33	1,249,903.17	1,247,605.67	2,297.50
Current Billings						<u>2,297.50</u>
Amount Due This Bill						<u>2,297.50</u>

Total Fee : 1,487,686.00
To Date Billings : 1,249,903.17
Total Remaining : 237,782.83

8A1 - Wade Trim

Rate Labor

Class / Employee

Date

Hours

Rate

Amount

Project Admin

Melanie A Phillips

1/26/2022

0.50

90.0000

45.00

Senior Professional

Steven A Kalinowski

1/21/2022

1.00

265.0000

265.00

James K White

1/21/2022

3.00

265.0000

795.00

John Arvai

1/18/2022

2.00

265.0000

530.00

1/21/2022

1.50

265.0000

397.50

1/24/2022

1.00

265.0000

265.00

Total Senior Professional

8.50

2,252.50

Total Rate Labor

2,297.50

Total Bill Task: 8A1 - Wade Trim

2,297.50

Total Project: MCW200501T - Chapaton RTB Canal Upgrades

2,297.50

Work Description:

Project management and coordination of design activities, staff and team meetings. Prepared monthly invoice and progress report.

Change Order No.

Date of Issuance:	01/10/2022	Effective Date:	01/10/2022
Owner:	8 1/2 Mile Relief Drain Drainage District	Owner's Contract No.:	WWS-2019-002 – Original Design WWS-2022-003 – Canal Rehab
		Engineer Contract No.:	MCW200501T
Consultant:	Wade Trim	Contract Name:	Chapaton Canal Upgrades

The Contract is modified as follows upon execution of this Change Order:

Provide the additional services as described in the attached proposal dated January 5, 2022 for the not-to-exceed amount of \$99,812.00.

The original Contract Sum was:	\$ <u>977,611.00</u>
The net change from previously approved Change Orders No.1 to No. 2:	\$ <u>410,263.00</u>
The Contract Sum prior to this Change Order:	\$ <u>1,387,874.00</u>
The Contract Sum prior to this Change Order will be increased by:	\$ <u>99,812.00</u>
The new Contract Sum, including this Change Order, will be:	\$ <u>1,487,686.00</u>
The Contract Time will be changed by:	0 (days)
The date of Substantial Completion as of the date of this Change Order, therefore, is:	N/A

ACCEPTED:

By:

Candice S. Miller

Owner (Authorized Signature)

Title

*MACOMB COUNTY
PUBLIC WORKS COMMISSIONER*

Date

1/14/22

ACCEPTED:

By:

John Arvai

Engineer (Authorized Signature)

Title

Vice President

Date

1-13-2022

Digitally signed by John Arvai
DN: C=US, E=jarvai@wadetrim.com, O=Wade
Trim, OU=Vice President, CN=John Arvai
Date: 2022.01.13 14:47:33-0500



Wade Trim Associates, Inc.
25251 Northline Road • Taylor, MI 48180
734.947.9700 • www.wadetrim.com

January 5, 2022

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

Attention: Mr. Vince Astorino

Re: Professional Engineering Scope of Services Proposal
Chapaton RTB Canal Upgrades – Design Revision

Dear Mr. Astorino:

Per your request, Wade Trim is pleased to provide this Scope of Services proposal document to Macomb County Public Works Office (MCPWO) for professional services related to the Chapaton RTB Canal design revision.

Project Description Summary

The Chapaton RTB Canal Upgrades Project will provide upgrades to the existing Chapaton RTB Canal to provide for a more resilient gate structure and RTB discharge area. The anticipated major improvements that will be evaluated consist of the rehabilitation of the cross section of the existing canal from the RTB to the gate structure and the installation of a new Gate Structure and Control Building to replace the existing Gate Structure and Control Building.

Scope of Services

Professional services will include providing a preliminary concept evaluation and engineering analysis of geotechnical, structural, hydraulic, process, civil site components, and constructability associated with the proposed upgrades. The recommendations from this effort will provide the necessary information to update the existing Basis of Design (BOD) and confirm the concepts moving forward during detailed design development.

Task 1 - Project Management

The following project management activities are to be performed as part of the project:

- A. Provide general management and technical administration of the project.
- B. Develop and maintain a master project schedule. The project schedule will be capable of identifying progress of individual tasks and of the entire project. The engineer will submit monthly progress reports summarizing activities completed, work remaining, and identifying any problems which are anticipated.
- C. Coordinate work of subconsultants, including all efforts required to maintain consistency in an effort between the team members. This also includes the routine administrative functions required to properly maintain staffing levels, assure proper accounting of both staff time and project expenses, and maintain general order.

- D. Prepare/maintain project records and billing, including effort required to maintain a complete set of administrative project records, billing, and cost information for the contract. Prepare monthly invoices including obtaining, preparing, and providing backup documentation.
- E. Attend regular meetings with the MCPWO project manager.

Task 2 – Engineering Analysis, Concept Evaluation, and Updating (BOD)

Task 2 consists of engineering analysis and concept evaluation to clearly identify the specific design elements of the project required to be updated in the BOD for which construction plans and specifications can be generated.

- A. Project Initiation – Conduct project kickoff meeting to initiate project and review project goals and objectives. Attendees will include key MCPWO and consultant design team members, including MCPWO Operations & Maintenance staff to obtain input on existing facility performance and operator concerns for new facilities.
- B. Engineering Analysis – The purpose of this task is to perform engineering analysis to establish and confirm design criteria. Specific items include the following:
 - 1. Review previous file, existing documents, and information.
 - 2. Utilize existing survey data previously collected. No additional site survey has been included.
 - 3. Review, model, and summarize hydraulic design requirements and constraints.
 - 4. Review, assemble and update geotechnical information to summarize geotechnical and structural design requirements. This includes one day of hand auger borings and DCP testing.
- C. Concept Evaluation:

After MCPWO approval is obtained for the preliminary design criteria identified in Task 2B, the engineer will confirm the previously designed concepts at the new location and/or provide revised recommendations for the following project components:

- 1. Geotechnical
 - 2. Civil Site
 - 3. Structural
 - 4. Hydraulics
 - 5. Process
 - 6. New Gate Structure (constructability and sequence of construction)
- D. Basis of Design Technical Memorandum:
 - 1. Develop recommendations to the owner for design components, or confirm existing design components based on technical evaluations.
 - 2. Update the existing BOD Technical Memorandum that summarizes design criteria and evaluations conducted in Subtasks A through C.

E. Progress Meetings:

Progress meetings will be held at least monthly and at other times as deemed appropriate.

Task 2 - Deliverables

- Updated BOD Report summarizing design criteria and technical evaluations with recommendations for project design components.

MCPWO Task 2 – Inputs

- Attend project progress meetings.
- Designate appropriate MCPWO operations staff to participate in technical discussions and workshops to provide input and finalize design concepts.
- Review and approve consultants' updated BOD Report.

Schedule

Our team anticipates a three-month duration to complete the tasks associated with this project.

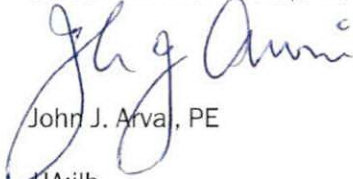
Price Proposal

The Wade Trim Team (Wade Trim, ASI, and NTH) propose to complete the above Scope of Services on a Time and Materials Basis utilizing rates identified in our attached Price Proposal breakdown for a budget amount of \$99,812.

If you have any questions or require additional information, please do not hesitate to contact me. We look forward to continuing our work with the Macomb County Public Works Office on this project.

Very truly yours,

Wade Trim Associates, Inc.



John J. Arva, PE

JJA:jlb

AAA 8190.21

20220105_ASTORINO-LTR.DOCX

Attachment

WALDE TRIM
Price Proposal

CHAPATON RTB CANAL UPGRADES
 SUBMITTED TO: RTB Main Relief Drain Drainage District

PROPOSAL NO.: MCPWO-WMS-2019-RFP-002

PROJECT PHASE/TASKS DESCRIPTION	Bill Item	Unit	Quantity	Unit Price	Total Price	Labor	COG Expense	Total Pricing
TASK 1 - Project Management								
Wade Trim	16	hr	8	\$ 3,200	\$ 25,600	8	120.00	\$ 3,320
Applied Science	16	hr	16	\$ 2,100	\$ 33,600	16	120.00	\$ 3,320
NTH	16	hr	16	\$ 3,070	\$ 49,120	16	120.00	\$ 3,190
TASK 2 - Engineering Analysis, Concept Evaluation and Updating BIDD								
Wade Trim	144	hr	32	\$ 96	\$ 3,072	32	120.00	\$ 3,192
Applied Science	144	hr	28	\$ 28	\$ 784	28	120.00	\$ 904
NTH	144	hr	16	\$ 16	\$ 2,304	16	120.00	\$ 2,424
Sub-Totals	444	hr	40	\$ 96	\$ 3,072	40	120.00	\$ 3,192
Principal (WT)	1	hr	1	\$ 200	\$ 200	1	120.00	\$ 320
PM - Sr. Professional (WT)	1	hr	1	\$ 250	\$ 250	1	120.00	\$ 370
Sr. Professional (WT)	1	hr	1	\$ 200	\$ 200	1	120.00	\$ 320
Prof. Engineer IV (WT) / Sr. Pric. Engineer (NTH)	1	hr	1	\$ 275	\$ 275	1	120.00	\$ 395
Prof. Engineer III (WT) / Principal Engineer (NTH)	1	hr	1	\$ 175	\$ 175	1	120.00	\$ 295
Prof. Engineer II (WT) / Sr. Project Prof. (NTH)	1	hr	1	\$ 160	\$ 160	1	120.00	\$ 280
Prof. Engineer I (WT) / Project Prof. (NTH)	1	hr	1	\$ 135	\$ 135	1	120.00	\$ 255
Engineer IV (WT) / Sr. Staff Prof. (NTH)	1	hr	1	\$ 150	\$ 150	1	120.00	\$ 270
Engineer I (WT) / Staff Prof. (NTH)	1	hr	1	\$ 100	\$ 100	1	120.00	\$ 220
Project Specialist V (WT)	1	hr	1	\$ 200	\$ 200	1	120.00	\$ 320
Prof. Surveyor III (WT)	1	hr	1	\$ 150	\$ 150	1	120.00	\$ 270
Survey Crew (WT)	1	hr	1	\$ 150	\$ 150	1	120.00	\$ 270
Sr. LA (WT)	1	hr	1	\$ 150	\$ 150	1	120.00	\$ 270
Planning Associate	1	hr	1	\$ 140	\$ 140	1	120.00	\$ 260
LA Staff (WT)	1	hr	1	\$ 100	\$ 100	1	120.00	\$ 220
Principal Engineer (ASI)	1	hr	1	\$ 180	\$ 180	1	120.00	\$ 300
Sr Project Manager (ASI)	1	hr	1	\$ 160	\$ 160	1	120.00	\$ 280
Project Engineer (ASI)	1	hr	1	\$ 80	\$ 80	1	120.00	\$ 200
Staff Engineer (ASI)	1	hr	1	\$ 80	\$ 80	1	120.00	\$ 200
CADD Tech V (WT) / (ASI)	1	hr	1	\$ 120	\$ 120	1	120.00	\$ 240
CADD Tech III (WT) / (NTH)	1	hr	1	\$ 100	\$ 100	1	120.00	\$ 220
Project Admin (WT) / Staff Support (NTH)	1	hr	1	\$ 70	\$ 70	1	120.00	\$ 190
TOTAL					\$ 99,812			\$ 2,722

Budget to Actual
8.5 Mile Relief
As of Jan 31, 2022 = 33%

DESCRIPTION	2022 FINAL BUDGET	ENCUMBERED	ACTUAL	REMAINING BUDGET	PCT UTILIZED
REVENUE ACCOUNTS					
Interest Earned	30,000		2,338	27,662	7.8%
Other Revenue	4,000		2,024	1,976	50.6%
8.5 O&M/Charge Required Revenue	4,748,520		2,374,260	2,374,260	50.0%
PY Revenue-Fund Balance	3,840,000			3,840,000	0.0%
Use of SCADA Reserve	147,950		-	147,950	0.0%
<i>Total Revenue Accounts</i>	8,770,470	-	2,378,622	6,391,848	27.1%
EXPENSE ACCOUNTS					
Application/Permit Fee	6,000		6,000	-	100.0%
Dues, Training, Conf, Subs.	10,380			10,380	0.0%
Engineering					
As needed Engineering	75,000		8,925	66,075	11.9%
9 Mile PS-const Admin/Const Mgr at risk	2,537,390			2,537,390	0.0%
Cost Share Army corp Grant-Green Infrastructure Project	162,500			162,500	0.0%
9 Mile Pump Station Design-Use of Capital Reserve	147,950			147,950	0.0%
9 Mile Pump Station Design-Was Flushing	797,090		178,740	618,350	22.4%
9 Mile Bypass Structural Repairs-Construction/CA	730,590		33,372	697,218	4.6%
In-System Storage-Construction & Const Admin ⁽¹⁾	2,250,000		149,296	2,100,704	6.6%
New Equipment	28,590			28,590	0.0%
Office Supplies	500		137	363	27.4%
Operating Supplies	65,400		12,563	52,837	19.2%
Other Professional Svcs	36,000		2,494	33,506	6.9%
Personnel Services	1,032,200			1,032,200	0.0%
Repair & Maintenance	197,000		81,254	115,746	41.2%
Contribution to Reserve	288,240			288,240	0.0%
Scada System	138,040		11,738	126,302	8.5%
Utilities	267,600		19,188	248,412	7.2%
<i>Total Expense Accounts</i>	8,770,470	-	503,707	8,266,763	5.7%

	O&M Balance 9/30/2021	O&M	Total 1/31/2022
Cash - Operating	12,229,091	1,874,915	14,104,006
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		2,378,622	2,378,622
Expenditures		503,707	503,707
			0
Equity*	12,229,091		14,104,006

Detail of 2021 Equity*

In-System Storage Design/Const Admin/Const	2,242,472	Capital Reserve	1,199,905
9 Mile Pump Station Design	1,130,932	SCADA Reserve	129,870
9 Mile Bypass Struct Rprs-Const/CA	635,989	LSCWWI 04B Transfer	738,112
Disinfection system upgrade (Design and Construction)	14,255	Contribution from Macomb Cty	2,000,000
Chapaton Improvements-Lab/Office Space	237,749	In System Contrib from SEMSD	1,000,000
As-Needed Engineering	61,595	MEDC Grant-Design ISS ⁽¹⁾	373,355
Pave side road that goes to the basin deck	15,000	SRF Replacement Reserve	2,332,930
Chlorine storage tank #3 relining	7,500		
Firewall Hardware Design/Config	12,900		
Obsolete Wireless backhaul replacement links	16,120		
Fiber Optic Improvements	16,130		
SolarWinds - Network Management Software	9,670		
Pumping and screening improvements	54,608		