

NORTHAMPTON RELIEF
INTRA-COUNTY DRAINAGE BOARD
NOVEMBER 14, 2022
10:45 A.M.
AGENDA

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

**Call in Number: 1-307-314-3902
Access Code: 199 831 865**

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for November 14, 2022	
3. Approval of Minutes for February 14, 2022	3
4. Public Participation	
5. Pump Station Repair Recommendation – Vince Astorino	5
Motion: To approve the proposal from Kennedy Industries for pump rehabilitation at the North Hampton Pump Station for \$47,890.	
6. Financial Report – Bruce Manning	11
7. Adjourn	



Northampton Drain - Enclosed

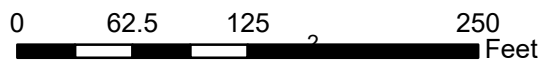
Warren




Northampton Pump Station




Drain Length (Feet/Miles):
672.84 / 0.127




Legend

 Northampton Drain

Roads

 Major

 Minor

An adjourned meeting of the Intra-County Drainage Board for the **NORTHAMPTON DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Clinton Township, Michigan, on February 14, 2022, at 10:38 A.M.

PRESENT: Brian Baker, Acting Chair

Bryan Santo, Member

EXCUSED: Michelle Nard, Member (Present via Teleconference)

ALSO PRESENT: Dan Acciavatti, Deputy Government Relations; Joseph Romano, Macomb County Board of Commissioners; Madison Tanghe, Administrative Coordinator, Don VanSyckel, Macomb County Board of Commissioners

PRESENT VIA TELECONFERENCE: Vince Astorino, Operations & Flow Manager; Jeff Bednar, Environmental Resources Manager; Steve Downing, Construction & Maintenance Manager; Norb Franz, Communications Manager; Bruce Manning, Financial Manager; Michelle Nard, Macomb County Board of Commissioners; Tom Stockel, Construction Supervisor

The meeting was called to order by the Acting Chair, Brian Baker. A motion was made by Mr. Santo, supported by Mr. Baker to approve the agenda as presented.

Adopted: YEAS: 2
NAYS: 0

Minutes of the meeting of July 8, 2019 were presented. A motion was made by Mr. Santo, supported by Mr. Baker to approve the minutes as presented.

Adopted: YEAS: 2
NAYS: 0

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

Mr. Downing updated the board on Electrical Repairs for the North Hampton Pump Station. Back in July of 2019 MCPWO conducted a study and condition assessment to determine the continued need for this pump station. The engineering study concluded that there is a need to keep this pump station to protect the residents along North Hampton Drive during significant rain events. The condition assessment revealed that there is a need to continue to maintain the pump station. It was built in 1984 and has been maintained, however the electrical equipment is old and needs to be repaired/replaced. The three components of the study were the electrical, the pumps, and access hatch and flap gate. MCPWO is prioritizing the maintenance work based on the severity of its current condition. It was determined that because the electrical equipment is original, that need is most urgent to perform. We coordinated with the City of Warren to collect funds to cover the costs. The current estimate to perform recommended maintenance is approximately \$150,000. The City of Warren provided \$75,000 which is now in the drain account. The remainder will be provided by the City of Warren after July 1, 2022.

MCPWO obtained 2 quotes from Colville Electric and Motor City Electric. The recommendation is for the Board to authorize Colville Electric to perform the recommended electrical maintenance work for the lump sum of \$49,190.

A motion was made by Mr. Santo, supported by Mr. Baker to approve the proposal from Colville Electric for \$49,190 for electrical maintenance work at the Northampton Pump Station.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$6,345.00 to the board for review and approval.

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

Adopted: YEAS: 2
NAYS: 0

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

Adopted: YEAS: 2
NAYS: 0

There being no further business, it was moved by Mr. Santo, supported by Mr. Baker, that the meeting of the Northampton Drain Board be adjourned.

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 10:49 A.M.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on February 14, 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.



Brian Baker, Acting Chair
Macomb County Public Works Chief Deputy

DATED: 02/15/22



Candice S. Miller

Public Works Commissioner
Macomb County

To: North Hampton Drainage District Board Members

CC: File

From: Vincent Astorino, Operations & Flow Manager

Date: September 19, 2022

Subject: North Hampton Pump Station – Pump Repair Recommendation

The Macomb County Public Works Office (MCPWO), on behalf of the North Hampton Drainage District, has been working to rehabilitate the North Hampton Pump Station which is located on the south side of 14 Mile and just east of Chicago within Warren.

The first phase of this work, which was approved by the drain board on February 14, 2022, was to replace the electrical equipment at this facility. This phase is still in process as delays to acquiring electrical components have been significant since the start of COVID.

The second phase of work is to rehabilitate the two pumps that are at the site. This work has been quoted by the pump manufacturers representative which is attached to this recommendation. Only one quote has been obtained as they are the only qualified service representative for these pumps. The proposed work plan is to pull one pump at a time and bring that pump back to the Kennedy warehouse for repairs. The seals, bearings, and O-rings will be replaced on the pumps along with fully disassembling the pumps and cleaning and sand blasting. The cost estimate is \$23,945 per pump to perform this task and if any other repairs are required those will be brought back to the board for approval. Due to the lead time being approximately 15 weeks per pump only one pump will be pulled at a time and that work will commence through the winter months so that risk is minimized of only having one active pump during the summer months.

The City of Warren has provided funding for this in two \$75,000 increments which have been received and total \$150,000. The Phase 1 electrical work which was approved was \$49,190 and this Phase 2 pump repair work total is \$47,890. The Kennedy quote has been reviewed and is in line with what was anticipated for costs to perform this work. Both phases of work currently still fall within the budgeted amount.

MCPWO staff is recommending to award the contract to Kennedy in the total amount of \$47,890 to perform the work associated with the pump rehabilitation at the North Hampton Pump Station.

Attachment: Kennedy Industries Proposal Dated 8-30-22



QUOTATION		
DATE	NUMBER	PAGE
8/30/2022	0040406	1 of 2

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

Accepted By: _____
Date: _____
PO#: _____
Ship To: _____

ATTENTION:
GREG SANTO 586-557-1055 greg.santo@macombgov.org

WE ARE PLEASED TO PROPOSE THE FOLLOWING FOR YOUR CONSIDERATION:

CUSTOMER REF/PO#	JOB TITLE	SLP	SHIPPING TYPE
	NORTH HAMPTON, FLYGT, PUMP, 7050, STORM WATER	BHS/SER	FIELD SERVICE
QTY	DESCRIPTION		

THE FOLLOWING QUOTE IS FOR THE ESTIMATED COST OF LABOR AND MATERIALS TO REPAIR THE ABOVE REFERENCED PUMP.

IF UPON INSPECTION, ADDITIONAL PARTS OR LABOR ARE REQUIRED, YOU WILL BE NOTIFIED BEFORE PROCEEDING.

ESTIMATED NEW PARTS REQUIRED:

- *****
(1) UPPER MECHANICAL SEAL
(1) LOWER MECHANICAL SEAL
(1) UPPER BEARING
(1) LOWER BEARING
(1) O-RING KIT

ESTIMATED LABOR REQUIRED:

PERFORM ALL ELECTRICAL TESTS AND TEST RUN.

DISASSEMBLE, SANDBLAST, CLEAN AND INSPECT COMPLETE PUMP.

CLEAN, BAKE AND TEST STATOR ASSEMBLY.

DIMENSIONALLY MEASURE ALL OPERATING CLEARANCES AND RECORD ON INSPECTION REPORT.

ASSEMBLE ALL ROTATING PARTS ON SHAFT AND PLACE IN BALANCE MACHINE.

VERIFY TOTAL INDICATOR RUN OUTS THEN DYNAMICALLY BALANCE ROTOR TO ISO G2.5.

ASSEMBLE PUMP COMPLETE WITH NEW PARTS LISTED.

PRESSURE TEST SEAL CHAMBER TO INSURE LEAK FREE.

INSTALL NEW OIL OR COOLANT IN SEAL CHAMBER.

PERFORM ALL ELECTRICAL TESTS AND TEST RUN.

PRESERVE AND CRATE FOR FIELD SERVICE INSTALL.

ESTIMATED REPAIR COST PER PUMP: \$21,195.00 PER PUMP

ESTIMATED LEAD TIME PER PUMP: 15 WEEKS (AFTER RECEIPT OF ORDER)

QUOTATION		
DATE	NUMBER	PAGE
8/30/2022	0040406	2 of 2

QTY	DESCRIPTION
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THE FOLLOWING QUOTE IS FOR FIELD SERVICE REQUIRED ON YOUR ABOVE REFERENCED PUMP STATION:

FIELD SERVICE LABOR REQUIRED:

KENNEDY INDUSTRIES WILL PROVIDE (1) FIELD SERVICE TECHNICIAN(S) ONSITE TO REMOVE YOUR FLYGT 7050 AND TRANSPORT IT BACK TO OUR WIXOM REPAIR FACILITY.

KENNEDY INDUSTRIES WILL PROVIDE (1) FIELD SERVICE TECHNICIAN(S) ONSITE TO INSTALL YOUR REPAIRED FLYGT 7050 PUMP, TEST RUN AND VERIFY PROPER OPERATION.

TOTAL FIELD SERVICE COST PER PUMP: \$2,750.00

ESTIMATED REPAIR COST PER PUMP: \$21,195.00

FIELD SERVICE COST PER PUMP: \$2,750.00

ESTIMATED TOTAL COST PER PUMP: \$23,945.00

ESTIMATED DELIVERY PER PUMP: 15 WEEKS (AFTER RECEIPT OF ORDER)

PLEASE PROVIDE WRITTEN OR VERBAL AUTHORIZATION SO THAT WE MAY RESPOND TO YOUR REQUIREMENTS.

IF YOU HAVE ANY QUESTIONS, COMMENTS, OR ARE IN NEED OF ANY ADDITIONAL INFORMATION PLEASE FEEL FREE TO CONTACT ME AT (248) 684-1200.

SINCERELY,
SAM DAVIS
SDAVIS@KENNEDYIND.COM
REPAIR MECHANICAL ENGINEER

<p>This quote is subject to and incorporates by reference Kennedy Industries, Inc.'s ("Kennedy") Terms & Conditions (Rev'd 4/2019) and Customer Warranty available at www.kennedyind.com which will be provided by email upon written request. Kennedy reserves the right to change the Terms & Conditions and Customer Warranty for future orders. By accepting this quote and/or issuing a purchase order relative to this quote, buyer expressly agrees to the provisions set forth in the Terms & Conditions and Customer Warranty posted on Kennedy's website.</p> <p>QUOTE VALID FOR 30 DAYS. CREDIT CARD PAYMENTS ARE SUBJECT TO AN ADDITIONAL 3% CHARGE NO TAXES OF ANY KIND ARE INCLUDED IN THIS PROPOSAL. PAYMENT TERMS: NET 30</p>	<p>TOTAL: \$47,890.00</p>
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Candice S. Miller

Public Works Commissioner
Macomb County

October 7, 2022

Warren Mayor James Fouts and Warren City Council

One City Square

Warren, MI 48093

Dear Mayor Fouts and City Council members,

I want to make you aware of several projects that the Macomb County Public Works Office has been working on in Warren. These activities are important in order to maintain and protect our underground infrastructure.

1. **Lorraine Drain sinkhole.** A 20-foot-long section of rotted metal pipe that provides drainage for part of a neighborhood was replaced after a sinkhole was discovered on the west side of Lorraine Avenue, south of 11 Mile Road. The newly installed tap to the Lorraine Drain is entirely concrete and will also alleviate occasional flooding at that location. Thank you to Mayor Fouts to bringing this sinkhole to our office's attention. We were happy to get construction completed before students who walk to nearby Wolfe Middle School headed back to classes. The cost of the sinkhole repair project was initially expected to be \$16,325. A reduction in the contractor's base bid was reduced to \$15,000. However, additional work including construction of a drop structure with larger reinforced concrete pipe, a larger concrete collar and additional manpower hours brought the final price to \$23,405. Per the original agreement, Warren will only pay \$8,162 with drain funds paying the remaining amount.
2. **Bear Creek Drain sinkhole.** After a sinkhole was discovered next to the curb lane of westbound 10 Mile Road near Mound Road, we inspected the underground pipe. That is an enclosed stretch of the Bear Creek Drain, just east of its connection with the Kutchev Drain. Inspectors discovered that the bottom of a 30-foot-long portion of the elliptical, corrugated metal pipe installed in the early 1960's had rotted. Storm water gets through those openings and can cause the dirt underneath to be washed away and the fill dirt above to sink. Meantime, the sinkhole grew wider. The contractor installed temporary internal bracing inside the pipe and a concrete mix was used to fill the sinkhole. A spray lining will be used to complete the drain rehabilitation and protect the pipe from further degradation and infiltration in that location for decades. We continue to proceed expeditiously and hope the contractor will begin mobilizing at the site next week, weather permitting. We

have approved pipe rehab/spray lining costs not to exceed \$196,873 and have sufficient funds in the Bear Creek Drain account to cover the cost of this project without any allocation requested of the city.

3. **Northampton Pump Station.** This pump station, which was constructed in 1984, is located at the southeast corner of 14 Mile and Chicago roads. Its purpose is to ensure effective conveyance of storm water for homes in the area around Northampton Drive. It is used infrequently. However, our office inspected the pump station and determined it needs to be updated and upgraded. We hope to have all electricity components replaced by the end of the year. The electrical upgrades will be connected to our Supervisory Control and Data Acquisition system so that we can monitor the pump station remotely. Phase 2 involves the rehabilitation of both pumps, one at a time. The rehab of each pump will take approximately 15 weeks. The entire cost of this two-phase project will be approximately \$150,000 and will be funded by the City of Warren. We appreciate the city's allocation to cover the costs.

I have attached some pictures to help you visualize these sites.

My office's mantra is "Water quality equals quality of life", and is the foundation for everything we do. Failure to invest in and maintain underground infrastructure including the network of underground pipes and pump stations and also our open channel drains, is vital to ensuring effective storm water management and sanitary sewage conveyance, and preventing costly infrastructure collapses like the 2016 sinkhole on 15 Mile Road in Fraser.

I look forward to continuing cooperation and partnership with the City of Warren, its elected officials and the administrative team whenever possible in order to best serve your community and protect the environment for current and future generations. If you have any questions, feel free to contact me.

Sincerely,



Candice S. Miller
Macomb County Public Works Commissioner

CC: County Commissioners Mia Xiong, Michelle Nard

YTD Trial Balance
Northampton
As of Fiscal Period: Oct 1, 2022-Oct 31, 2022

	O&M Balance 9/30/2022	O&M	Total 10/31/2022
Cash - Operating	153,993	(14)	153,979
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		20	20
Expenditures		34	34
Equity	153,993		153,979