



Hamburg Township Public Safety Department

PO BOX 157 • HAMBURG, MICHIGAN 48139
PHONE: (810) 231-9391 • FAX: (810) 231-9401

EMAIL: HATP@hamburg.mi.us

RICHARD DUFFANY, DIRECTOR OF PUBLIC SAFETY



TO: Hamburg Township Board

FROM: Chief Richard Duffany

DATE: July 27, 2023

RE: Agenda Item Topic: **Fire Station 11 Oil/Sand Separator Replacement**

General Ledger #: **206-000.000-980.000**

Number of Supporting Documents: **1**

NEW/OLD BUSINESS: **XXX** New Business

_____ Old Business – Previous Agenda #:

Requested Board Action

- Motion to approve the hiring of Mastercraft Plumbing & Mechanical of Whitmore Lake to install a new oil/sand separator, as outlined in their quote, at Fire Station 11 at a cost of \$60,200.00.

Background Information

The Township Board authorized the replacement of Station 11's bay floors at the Township Board meeting on July 18, 2023. Deputy Director Newton had the floor drains in the bays inspected to ensure that there weren't any cracks or failures. The inspection process included jetting the drains, flushing them and then inspecting them with a camera.

During the inspection it was found the drains in the west bay were filled with water and were not draining properly. This led to the inspection of the oil/sand separator located under the bay floor. As a matter of background, the oil/sand separator is a large pit that is divided into compartments. Its purpose is to separate the oil and sand that comes from the trucks and flows down the drains. The water passes through these chambers allowing the sand to fall to the bottom of one chamber and the oil to collect in another so the water can then pass into the main drain and out to the drain field.

Our oil/sand separator is not draining properly and had to be pumped out in order to be inspected. Once pumped out, it was found that the oil/sand separator had several holes in the walls of the separator and the chamber walls were corroded and failing. The holes are allowing contaminated water to enter into the ground below the separator. In short, the oil/sand separator needs to be replaced. (Note: the rest of the drain system which was the subject of the original inspection is in working order not needing any repairs).



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After learning that the oil/sand separator had to be replaced, DD Newton began calling plumbing/mechanical companies in an effort to get estimates for this replacement. DD Newton called eight different companies:

1. Lakeside Services of Brighton - Declined to offer quote as they don't work with oil/sand separators.
2. Masterflow Plumbing of Brighton - Declined to offer quote as they don't work with oil/sand separators.
3. A-Select Plumbing of Brighton – No answer – no call back.
4. Pinckney Plumbing of Pinckney – No answer – no call back.
5. J. Mills Plumbing of Howell- Declined to offer quote as they don't work with oil/sand separators.
6. Brock Mechanical Services of Hartland – DD Newton made three appointments with them and they failed to keep the appointment each time. No quote submitted.
7. Shoner Plumbing & Mechanical of Whitmore Lake – Inspected the oil/sand separator and then decided it was too large of a job for them.
8. Mastercraft Plumbing & Mechanical of Whitmore Lake – submitted a quote of **\$60,200.00**

Several of the companies listed above advised DD Newton that Mastercraft Plumbing & Mechanical could handle this project. Mastercraft is the same company that has handled all of our plumbing repairs at both Station 11 & Station 12 over the last year and DD Newton has found them to be very efficient, clean and reliable. Attached is their quote for the replacement of the oil/sand separator.

Due to the fact that water contaminated with oil and other materials will be discharged into the drain field without a new oil/sand separator, it is my recommendation that we purchase a new separator and have it installed. As indicated in this memo, DD Newton reached out to several vendors looking for quotes for this project and only received one from Mastercraft Plumbing & Mechanical.

I am looking for direction from the Board on how further to proceed. If the Board is satisfied with going with Mastercraft Plumbing & Mechanical of Whitmore Lake for this project then I would recommend that we hire them for the project. If the Board requires additional action, such as getting additional quotes or sending out a Request for Proposal, then we will proceed as directed. On a side note, the replacement of the bay floors can not take place until the oil/sand separator replacement is complete.



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Budget Impact

This is an unforeseen expenditure that was not included in the current fiscal year budget or long-term capital budget. Additionally, this is an expenditure not associated with the renovation costs for Station 11 as this issue would need to be addressed whether we were renovating Station 11 or not. As such, funds from the undesignated reserve fund would need to be utilized to pay for the cost of this project.

Respectfully,

A handwritten signature in black ink, appearing to read "Richard Duffany".

Chief Richard Duffany
Director of Public Safety

MASTERCRAFT PLUMBING INC.

7879 E. M-36
Whitmore Lake Michigan 48189

Estimate

DATE	ESTIMATE #
7/26/2023	3515

NAME / ADDRESS
Hamburg Township 10405 Merrill Road P.O. Box 157 Hamburg Michigan 48139

PROJECT

DESCRIPTION	COST	TOTAL
Fire station # 11	59,950.00	59,950.00
Oil and sand separator		
Pump the tank dry		
Cut the concrete around the tank		
Break the concrete and replace the concrete ; 12 inches around the tank		
Remove the tank		
Put concrete and old tank to a dumpster (we provide)		
Install the new tank		
Backfill and compact		
Hook the drain lines to the new tank		
Install the Zurn 500 gallon tank		
Permit fees to customers	250.00	250.00
If a Zurn Alarm system is needed for a high water alarm	9,925.00	9,925.00
We will cut a trench in the concrete to the wall, and install the alarm panel there		
TOTAL		\$70,125.00

SIGNATURE _____