

## MINUTES OF THE BOARD OF PUBLIC WORKS

Tuesday, February 12, 2019

The Regular Meeting of the Board of Public Works was held on Tuesday, February 12, 2019 at 7:30 a.m. in the City Council Chambers located at 405 Jefferson Street, Washington, Missouri. The following were present/absent:

### MEMBERS:

Chairman	John Vietmeier	Present
Member	Brad Mitchell	Present
Member	Mike Radetic	Present
Member	Steve Richardson	Present
Ex-officio Member	Steve Strubberg	Present
Ex-officio Member	Vacant	--

### OTHERS:

Council Representative	Jeff Patke	Absent
Council Representative	Steve Sullentrup	Absent
Council Representative	Jeff Mohesky	Absent
Council Representative	Greg Skornia	Absent
Mayor	Sandy Lucy	Absent
City Administrator	Daren Lamb	Absent
Water/Wastewater Superintendent	Kevin Quaethem	Present
Water/Wastewater Secretary	Beverly Hoyt	Present
City Engineer	John Nilges	Present
Assistant City Engineer	Andrea Lueken	Absent
Fire Chief/Emergency Management Director	Bill Halmich	Absent

Originals and/or copies of agenda items of the meeting, including recorded votes are available on record in the office of the Public Works Department for one year. Video/DVD and audio tapes are kept only until the minutes have been approved for the meeting. DVD copies of this meeting are distributed to Board Members if requested.

A motion was made by Mr. Mitchell and seconded by Mr. Richardson to approve the minutes from the regular January 8, 2019 meeting. The motion passed without dissent.

## Priority

We have two things for discussion - Combination Truck – As you all know we purchased 2003 used vactor truck back in 2012. It was purchased from the City of Wichita Falls, Kansas through Key Equipment. The truck has been used for everything, cleaning sewer lines. Manholes used to be cleaned manually before this truck was purchased. Guys would go down in the manhole and clean out with buckets, then dump it in a truck. Once we got the truck we were able to eliminate the guy going in the manhole. Truck was also used for hydro excavating around any utilities. We used it just a couple of weeks ago cleaning sludge from a turned over farm truck for the fire department. However, the truck has become unusable. It seems there is a crack in the engine block, oil is running out faster than it runs through the engine. We do have a truck in the budget for next year, was just hoping to limp the old truck through the year but has become impossible. We have been working with administration and finance, on looking at a truck that would be multi-functional which will be funded departmentally out of wastewater general revenue fund; Storm water and possibly the fire department, there's no guarantee on that for now.

We have gone out for bids with competitors. Looking at going with a new truck but we do not have the time, we need something real soon. The one we are looking at is a demo truck that has been put through the paces during numerous demos. This truck is a 2018 Freightliner and has 20,000 road miles with 80 hours of equipment time. Most of these hours are idle time since it is used as a demo truck. I do have a new truck priced in the packet around \$437,513.00. Since then I have worked with the company and got a demo price bid of \$391,147.00 less 3% discount on the equipment. The equipment cost will be \$284,982.00 with the 3% discount.

We have been working with finance on the funds available throughout all the departments just a matter of allocating them.

We need approval from the Board to proceed with the purchase of a truck whether it's this one or a different one. The crew feels this is a very easily maintained truck. The old truck was purchased in 2012 for \$90,000.00 which at that time was 9 years old. Only reason we got it that cheap was the salesman for Key Equipment who no longer works there knew we were looking for a truck and called one day to let us know that Wichita had just traded in their truck and was able to see the truck for \$90,000.00 so they wrote up the contract and signed. Some of the equipment and parts for the old truck is getting harder to find and expensive. We did rebuild the pump a year or so ago for the price of \$10,000.00.

There is some value to the old truck just not as a trade in. The City will post it on an auction site to sell for parts.

Warranty on the new truck is three years on the chassis and one year on equipment this is normal. This truck has the capacity of 12 yards as opposed to the six yards on the old truck. This would make doing routines a lot simpler and we would be able to do twice as much.

Mr. Richardson made a motion and was second by Mr. Radetic, motion was made and second to move forward with the purchase of a new truck. It is recommended to move forward to the Council for approval.

New Pump for Walnut Street – We have been working on this for a long time. Front Street has been an ongoing problem for year during heavy rains. We need to put a trunk line from West End Lift Station all the way down to Walnut Street. The cost for this would be over a million dollars.

Instead we could install a bigger pump. Looking at a (185 hp) that will pump (2500 to 2800 gallons per minutes (gpm)) Cogent has Flygt Pumps which is what we will be switching over to at the lift stations. We have five that are in operation now. The only problems have been manufacturers issues of the gel around the cooling jacket around the pump. The pumps themselves are bullet proof. Very little maintenance unless they get rags wrapped around them then we have to pull the rags out to clean.

There cost for the pump will be \$227,955.00 and there will be an extra cost of \$4,500.00 for pumping around, which they will have to do in the dry side of the lift station (wet well). Everything is already set up. If this is approved to move forward on then our next storm we will not have to adjust our pumping at three lift stations, it will all be down at the treatment plant. The pumps we have there now are about eight years old. This will take out Pump #1, and sit down on a pallet down in the dry well and be used as a backup in case one of the other 2 pumps goes out. Same with the controller that is taking care of Pump #1 it will actually stay in place it just won't be used it will serve in a backup capacity only.

All the equipment, materials we are not getting rid of we are keeping them as replacement parts. This new pump is three times the size of the old one.

The pump itself is actually not budgeted, we do have budget money and am working with Mary Sprung. We do have money in the budget for slip lining of \$150,000.00 and West Link Lift Station has \$150,000.00. West Link was put in the budget to convert over to the new Flygt Pump. West Link is pumping and there's nothing wrong with it. We are just trying to get them all converted over to the Flygt Pumps, so down the road they are all the same. Mary Sprung is okay with this, she actually suggested this to move West Link to next years' budget and take the slip lining budget which DNR wants us to do an improvement every year on the system. This will improve the system down on Front Street. Just reallocating funds for now.

Just letting everyone know the issue at Front Street is not because of bad piping. The pipe is in decent shape. We were looking into a new trunk line at Front Street, but with the price tag of a million. We discussed the lift station on how can we maximize the hydraulics and force main from the lift station down to the treatment plant, can we increase the capacity pumped more sewage during an actual rain event. This actually is a cost savings when you look at it from the prospective because we were going to have to do something. We are not only with the sewage side, but we also have to explain it from the Separate Storm Sewer System (MS4) Permit. Essentially when you mix a storm system with sanitary sewage it's a no-no. You can't allow those

discharges and we all know during large rain events it exceeds the limit and starts popping a few manhole lids on Front Street. That is a direct correlation because the system cannot move the sewage from the wet well down to the treatment plant efficiently enough so there is an overflow, we know that, we do not take it lightly, we are actively trying to fix. So this is a mechanism to do that to increase the pumping capacity.

So the other thing we look at is getting storm water out of sanitary sewage, you have to stop it at the source. This is what slip lining does, it stops it at the source, but there is no way of knowing how many down spouts, other pipes that are connected to the sanitary sewer since it was built over a 100 years ago. We are actually trying to stop it at the source which is where the storm water gets into the system, but that's a very reactive way to do things because I would have to know all the locations. Some of the other problems are where we receive all of our sewage that ends up down at Walnut is a lot of the older part of town which is where we are sitting now, and 6" lines as we know cannot be slip lined. So, if you have a joint that is offset on top of the pipe it might not affect the flow of sewage going down the line or releasing itself from the pipe, but the top of the pipe is broken allowing infiltration to come in the top. To find all of them would be nearly impossible.

There is no way to say this will take care of all the problems, we cannot make that guarantee. The wet well is the choke point of the whole thing because you have to pick that water up and force it down to the treatment plant. There's no guarantee it will reduce the risk significantly. We have spent a lot of time calculating the best guess of how much flow comes into the lift station during a heavy storm, we are getting 2,000 to 2,200 gallons per minutes.

The new pump is a better alternative than a new trunk line costing millions of dollars and the only place a new trunk line could be put is on the North side of the train track. We would have to go underneath train tracks and put on the North side which is the flood side.

The one manhole that pops is at Olive and Front Street has a 24" lid. The pipe between this pump and the treatment plant does have the capacity. The pipe is a 14" pipe. The treatment plant is capable of handling a four-million-gallon capacity and we are only operating at two-million-gallon capacity. The surge going down to it can receive and handle it with no problem.

A motion was made by Mr. Radetic and second by Mr. Mitchell to move forward in presenting this to the Council at their next meeting. All in favor aye, those oppose. This is approved to move forward.

### Wastewater

Slip lining will not be done during this budget year, but next year there will be a more sizeable amount to go forward with. If you don't have enough for a package it costs more, the mobilization alone can eat up thousands. There are several funds that can be used other than slip lining, there is also storm water. We will keep the Board updated on the funding on where it will be taken from.

## Water

Rebuild of Well 9 we are still waiting. We have some really good plans for the building, but still waiting on the weather to improve. We are still waiting to hear from the settlement offer from the insurance company.

Melton Sewer Project – We are still waiting on the weather to get better. This is kind of a safety hazard – work will be on an incline. We will have this all installed and ready before they need.

Annexed Properties – We have an agreement with Public Water Supply District #3, when a piece of property is annexed into the city the agreement with them is to pay \$160.00 an acre. This agreement has been going since 2000. We are supposed to do this once a year, we evaluate the annexation of areas and then write a check. This is all handled through engineering but because of some transitions going on we kind of dropped the ball through no fault of anyone. The sheet that has been handed out to you shows the sites we still owe the District to get caught up.

Public Water Supply District #3 is on the east end of town. For the first five years of the contract was \$100.00 an acre then goes up \$10.00 every year thereafter. It gradually increases each year. All the annex properties that have sold since the last payment was made. We now owe them \$10,227.00 this is the amount of the check that needs to be cut. Moving forward we plan on putting internal checks and controls so we will get notified when these come in from now on and a check will be issued right away.

We feel it's important for the Board to see and understand what the costs are on these properties. We can email a copy of the agreement to better understand. This is an expense that is hard to project each year on what the cost will be it varies.

## Other

Public Works crews are here today so the Board can meet and put a face to the people who do the work on the street. Dylan Voss who has been with the City going on three years, Chad Alfermann transferred over from Park Department and has been with Public Works for five years, Chad is the Water Foreman. Kerry Duke has been with the City 14 years and holds the position of Wastewater Foreman. Sonya Mason has been with Public Works for about two years in the clerk capacity, handles most of the call on the 1030 line, Rose Standridge has been with us almost a year and does the meter reading along with well information and etc., Stephen Thompson has been at the City two years and works for wastewater collection and works with Kerry Duke, Ron Wildt has been with the City almost 20 years and holds the position of Operator, Bryant Rodgers has over 35 years of experience working with contractors, all of these employees are valuable assets to the City.

**Old Business**

N/A

**Open Discussion**

Next Board Meeting we will have only two members so there will not be enough for a quorum.

**Next Scheduled Meeting Date**

The next scheduled meeting date is March 12, 2019.

**Adjourn**

There being no further business the meeting adjourned on a motion by Mr. Mitchell and seconded by Mr. Radetic. All in favor aye, those oppose. We are adjourned.

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Prepared by:

Beverly Hoyt

Beverly Hoyt

Water/Wastewater Secretary

Adopted and Approved by the Board of Public Works:

Date:

MEL DRS

Signature:

4/9/2019

Secretary