

MINUTES OF THE BOARD OF PUBLIC WORKS
Tuesday, July 27, 2021

The Regular Meeting of the Board of Public Works held on July 27, 2021 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	Absent
Member	Mike Radetic	Present
Member	Steve Richardson	Present
Ex-officio Member	Steve Strubberg	Present
Ex-officio Member	Vacant	--

OTHERS:

Council Representative	Steve Sullentrup	Absent
Council Representative	Mark Wessels	Present
Mayor	Sandy Lucy	Absent
City Administrator	Daren Lamb	Absent
Water/Wastewater Superintendent	Kevin Quaethem	Present
Water/Wastewater Secretary	Beverly Hoyt	Present
Public Works Director	John Nilges	Present
Assistant City Engineer	Andrea Lueken	Absent
Emergency Management Director	Mark Skornia	Absent
Fire Chief	Tim Frankenberg	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.

Minutes

A motion made by Mr. Richardson and seconded by Mr. Radetic to approve the minutes from the regular June 22, 2021 meeting. The motion passed without dissent.

Priority Items

There are no priority items.

Wastewater

All is running good. Treatment Plant is running good. We do still have one influent pump out. Thanks to the economy and the way things are we are still waiting for parts to come in from Sweden.

It is not hampering the everyday operation, now if we were to have a torrential down pour with only three (3) pumps it could create an issue.

We had a supplier come in to talk about pumps that they claim to be as good as Flygt pumps and costs half as much, so we are looking at probably purchasing one of these pumps and putting it in place and testing. It will not be until next budget year. I do have money budgeted down there for pumps and it would be a good idea to buy one to see if it is actually as good as the Flygt pump. This is the first pump we have had to go out since the plant was built in 2009. This pump lasted 11 years with having nothing done so Flygt pumps are tough. However, if there is another manufacturer that can make one as tough as that I am all for it.

All other pumps we usually get about two (2) years out of them before we have to pull them and have them rebuilt. They are just not as tough built. That being said we plan to try one and see what happens.

Water

We have an invoice from Cochran in the amount of \$1,523.53 that needs approval for payment. Once paid there will be a balance of \$39,990.25 left on the contract.

A motion was made by Mr. Radetic and second by Mr. Richardson for approval of Cochran Pay Request #4 in the amount of \$1,523.53. All in favor aye, all oppose, none. Proceed with payment of invoice.

David Van Lee is here to talk about the tank painting. Last month we gave an update on the tanks, and we were given the approval to go out for bids. So, in the packet today we have a recommendation letter with a bid tab, a bid was held on the project on July 14th, we were pretty happy we actually got eight (8) bids on this project. You will see in our letter, we are recommending award to the low bidder, which is Worldwide Industries. Cochran has no direct experience with Worldwide Industries. I can tell you we did quite a bit of reference checking on them. They are out of the northeast Pennsylvania. They did provide experience on projects in Missouri and other surrounding areas in the Midwest. Our tank inspector has some experience with them. We are comfortable enough to award this to these guys. They are significantly under the engineers' estimate, which is also the budget for the project. One recommendation we have, which is stated in the letter, and since we do not have any direct experience with these guys that we do ramp up the inspections. I do believe we can keep those in the budget amount for the project,

but I do anticipate we will use up all the money for inspections that was included in our proposal. Clay Street, we recommend pretty heavy inspection. So, again the plan would be that we do the Clay Street work this fall, start by September, once this was done we would pause the project. We then would resume the project in the spring of 2022 and do Enduro Tank. Again, it is our recommendation to award Worldwide Industries in the amount of \$593,500.00. The schedule for one is in fall and the other will be in the spring which they have agreed on.

Motion to approve made by Mr. Richardson and seconded by Mr. Radetic. All in favor aye, all oppose none. Motion approved without dissent.

Meadow Lake Farms

The water is on at Meadow Lake. We dug, reseeded and strawed the grass area. Highway 100 has been seeded and strawed as well on the south side. We are now working on the swale for the highway. That will be completed today. We will keep working on that, by the end of the week we will have that side seeded and strawed and the only thing we will have then is to reform the swale coming down Pottery Road so the water does not go out on the road. We just need to redress around the water line. We will be done until the new development starts moving forward and decide to grade for Pottery Road to get the water line into the development that we have to do yet down the road. We only had one complaint. I have talked personally with several people out there, and they are excited to see if Washington's water taste better than the District water. The District taste so bad that they have been drinking bottle water. Of course, I think our water is better than theirs any day, just a little friendly competition.

It took a little longer than expected to make the connection. This is the first time we have done a water extension that we actually got a negative sample on the first go around. This was a coordinated effort between four (4) departments, water, wastewater, street and the special road district to do maintenance on the road. This was a big project that has been on plans since the late 60's. We thought there was a sleeve under the roadway and unfortunately there was not a sleeve.

The City posts a Consumer Confidence Report for the water Quality which does show both the Water District and the City of Washington test results as well.

Meadow Lake has a pressure of 81 psi at hydrants out there and there are several hydrants that will need maintenance. A couple are below grade and need to be elevated and painted.

Mr. Radetic brought to the attention of the Board that there has been a lot of social media and people concerns about the taste of our water. The city cannot respond to every social media comment, however they can contact the water department with their concerns and we will look into it as quickly as possible.

If they are concerned about the taste or smell there is a carbon charcoal filter system which is not that expensive, about \$100.00 that would take care of it all. The disinfection will not go away. EPA deems the only safe drinking water is disinfectant water and the only way to disinfect the City of Washington is with chlorine you cannot do it any other way so we have no choice.

Meadow Lake has 81 PSI, we maintain 81 PSI at the pump station so the top house has 81 and as you go down the hill it will increase a little bit due to elevation but the guy at the top of the hill says he did not even notice the difference when we transitioned over.

Other

Once the connection with Meadow Lake was made we did a fire flow test. We were able to get 1,250 gallons per minutes, it is not going to pump more, we could put bigger pumps in but risk more damage. What we did find is that we have a five pump system. What they call a Jockey Pump, which maintains the pressure. Then we have pump #2, 3 and 4 that increase when demand increases, they kick on at certain times then we have the fire pump. When we did the test the maximum we could get out of all three of those pumps was 300 gallons a minute and then the high flow pump kicked in. The high flow pump is what they call, it has a soft start to it, but it starts softly then ramps up to 100% so we got from the 300 gallons per minute to trying to send 1,250 gallons a minute down the line. What it creating is a bunch of cavitation in the station causing it to draw more out at a quicker time than it can bring in through the piping and it causes the pressure to drop decreasingly low while trying to bring all that up. So what I would like to do to put a VFD on that high flow pump (VFD) which we could then turn to start ramping up at a slower pace as that 300 gallon hits, 400, 500 gallons and let it ramp. This will create a less draw of the suction side but yet still get the flow and then ramp up to max if there were a fire. I am a little concerned as time goes on and all the irrigation systems click on. There is a chance that we could need more than 300 gallons a minute and we would have that high speed pump kicking on causing all kinds of problems.

We are looking at moving forward, I have one quote from EFI, a company that built the building and knows the design, their quote came in at \$16,915.18. That is to put everything in, the VFD wiring program the whole thing. I have another company that is also quoting this so the point is that it will not be any higher than \$16,915.18. The reason I am bringing this to the Board right now is everything we purchase now in the industry has anywhere from an 8 to 10-week delay on delivery. I can wait and try to roll this into next years' budget and then have an 8 to 10, 12-week delay. I feel we need to address this sooner than later because as that pump kicks on and off it literally shakes the building, that is how much pressure is in that building and how much cavitation going on. The location of this is up at Clay Street Water Tower. It is a possibility this could cause a pipe to bust when trying to fight a fire? Yes, it could happen.

If the fire department were to go out, and we do have the best fire department, but if someone does not know what they are doing and they open the hydrant up. This could draw that tank down to 0 PSI, which at that point could do a lot of damage. We need a motion to move forward with this to the Council.

A motion was made by Mr. Radetic and second by Mr. Richardson to move on to Council for approval. All in favor, aye those oppose, none. Motion approved without dissent. Move this on to Council for approval.

Not trying to scare anyone there, but it is a concern that we need to stay on top of sooner than later. This will probably need a budget amendment for this year if it goes through for this year because it's not budgeted, but I will work with Finance very closely.

Next Scheduled Meeting Date

The next scheduled meeting date is August 24, 2021.

Adjourn

There being no further business the meeting adjourned on a motion by Mr. Richardson and seconded by Mr. Radetic. All in favor aye, those oppose, none. We are adjourned.

Prepared by: Beverly Hoyt
Beverly Hoyt
Water/Wastewater Secretary

Adopted and Approved by the Board of Public Works:

Date: Aug 24, 2021 Signature: [Signature]
Secretary