

CITY OF KREBS UTILITIES AUTHORITY  
SPECIAL BOARD MEETING AGENDA  
NOVEMBER 7, 2017

1. Chairman Bobby Watkins called the meeting to order.
  
2. W. Kay Scott, City Clerk/Treasurer, called Roll. Bobby Watkins – Present, Tommy Walker – Present, Connie Poole – Present, Jason Wagon – Present, Daulfin Bennett – Absent.
  
3. CONSIDER AND ACT TO APPROVE THE PAYMENT OF TWO INVOICES TO POE & ASSOCIATES FOR ENGINEERING SERVICES RELATING TO THE EUFAULA LAKE TRANSFER PUMP SITE IN THE AMOUNT OF \$29,122.75. Ed Klink informed the board on the invoices. The main body of these invoices will be covered by FEMA. The original intent was to put a floating dock at Lake Eufaula with a pump on the dock. In order to do this, we had to enlist someone with engineering skills. We contacted Mr. Mulder with Poe & Associates in Tulsa. Since we had it declared an emergency, by contacting the State of Oklahoma governor and Oklahoma Emergency Management, Mr. Mulder devoted most of his time to put together a plan to transport water from Lake Eufaula to Krebs Lake. However, due to technical difficulties our pump site does not fare well with a floating dock. It was determined, by using sonar equipment, to be too shallow to carry the pump. The location is at best 12 feet deep and falls from there. It would take about 2 miles of additional tubing to have a greater depth. Tommy Walker asked if the reason we can't have the dock is because it is not deep enough. Mr. Klink replied we will have a floating dock for the filters but not for the pump. FEMA intentions are to pay for our water line to be put together as they were, not for any upgrades. They are paying for cutting the pipe off and getting it ready to go.  
Chairman Watkins asked for a motion to pay Poe & Associates. Jason Wagon made the motion. Connie Poole seconded the motion. Chairman Watkins called for a vote. Tommy Walker – yes, Connie Poole – yes, Jason Wagon – yes. Motion passes.
  
4. CONSIDER AND ACT TO APPROVE THE PAYMENT TO UNDERWATER SERVICES FOR WORK PERFORMED IN THE CUTTING OF THE RAW INTAKE LINE EXTENDING INTO LAKE EUFAULA IN THE AMOUNT OF \$11,414.72. Mr. Klink stated the original bid was \$9,500 but FEMA selected his bid over other companies. I made sure before we proceeded that FEMA would pay for additional monies. The guy tried to cut the pipe with some sort of pneumatic chain cutter but unfortunately it is only good for cast iron pipe. They made several attempts that didn't work. What it amounts to is they have billed us for an additional \$11,414.72. Ms. Poole stated it seems like if they did this kind of work they would have had the right kind of equipment to begin with. Mr. Klink stated that no one knew for sure what kind of pipe that was in the lake. The plans show there was a steel line but it also shows several other things that were supposed to have been installed but was not built in the same manner. Weren't completely sure what type of pipe was there. We saved a piece of pipe that you are more than welcome to look at it. It is at the Water Plant. They did come back with an arc welder to cut the pipe.  
Chairman Watkins asked for a motion to pay Underwater Services. Connie Poole made the motion. Jason Wagon seconded the motion. Chairman Watkins called for a vote. Tommy Walker – yes, Connie Poole – yes, Jason Wagon – yes. Motion passes.
  
5. CONSIDER AND ACT TO APPROVE IN DEPTH EXAMINATION OF REPAIRS MADE, PROBLEMS ENCOUNTERED, CORRECTIVE ACTION TAKEN AND ACTUAL/ PROJECTED COST TO DATE. THIS PRESENTATION WILL BE INCLUSIVE TO PROJECTS ASSOCIATED WITH THE RENOVATION OF THE WATER PLANT, KREBS LAKE PUMP INSTALLATION SITE AND EUFAULA LAKE TRANSFER PUMP SITE. Mr. Klink stated this is a discussion only – no vote. We have spent several hours on this problem trying to figure out why the pump is not working and why we are having so many problems. We have gone to Oklahoma City looking for answers as to why the pump we purchased, which is 60 hp submersible pump that is just like the one that has been in the lake since 1977 and has been rebuilt several times, why we are having problems. The electrical system was an open delta with one leg begin completely out of phase with the others. One pump burned up because of the imbalance. Another pump, manufactured by Franklin Electric, blew a hole in it which was not our fault. So far we have gotten Kiamichi Electric, at no cost to the city, to remove open delta and install a closed 'y' system. It involved hanging of 3

new transformers at a considerable cost to Kiamichi Electric. We have had more success with this new system however the Corporation Commission of the State of Oklahoma has allowed Rural Electric companies such as Kiamichi, because of the demand of more electricity, to slowly creep up the voltage over the years. We started out 40 years ago with 460 volts and over the years it has increased to 505 volts. Voltage has an imbalance, which is sanctioned by the State of Oklahoma Corporation Commission. The newer pumps are more efficient than they were 40 years ago. The voltage fluctuates and now we have several pieces of equipment that can be used to help control the fluctuation. The Variable Frequency Drive (VFD) will convert it to DC (direct current) which can control the voltage to the pump. This is a bank of capacitors that are put in the line. The cost is about \$8,000. It has to be kept in a weather-proof box with a fan.

We have 2 things that we can do –

- a) install a turbine line pump (which was there to begin with). It can be put back together at an estimated cost of \$17,000.
- b) We can keep the pump we have and install a VFD method at a cost of \$8,000

Ms. Poole asked if Mr. Klink was recommending the VFD. Mr. Klink stated yes. Would like to see if we can rebuild the old pump. We can find out how much it would cost to repair the line turbine pump – an estimate is \$17,000. To purchase a new one is \$35,000. Ms. Poole asked if there was a warranty. Mr. Klink responded – most of them are 2 years. Except Franklin Electric which is only 1 year from the date of purchase and not the date of installation. Mr. Walker asked about insurance on the pumps. Kay can check with the insurance company which is OMAG in Oklahoma City.

Ms. Poole asked Mr. Klink what he would recommend – whether to rebuild the pump or buy a new one. Mr. Klink responded to rebuild the old one. Life expectancy could be about 20 years and the pump material is well made. If we can do it at a reasonable price. It has 2 drive motors. If the price is as high as a new one then let's get the new one.

Mr. Walker asked how much we have spent on this so far. Mr. Klink stated probably \$100,000 but FEMA will reimburse about \$60,000.

Ms. Poole stated that she appreciates Ed and Jonathan and all that they do to keep us in water. Both are doing a great job.

Mr. Klink stated that the water plant renovation. Talked to Mr. Mulder and told him they want a credible water plant. We don't want a metal building. Want a building that is concrete blocks because of the chemicals that are stored in it. Told him not to spend 100% of his time on this project at \$210.00 per hour.

6. CONSIDER AND ACT TO PAY JODEE CONSTRUCTION FOR THE COMPLETION OF THE LINING OF THE FIVE MANHOLES FOR THE SUM OF \$10,900.00. Chairman Watkins reminded the board that this was DEQ mandated. Mr. Walker stated that he hasn't seen any pictures of the completion. Mrs. Scott stated pictures were sent with the invoice. Chairman Watkins asked for a motion. Connie Poole made the motion. Jason Wagnon seconded the motion. Chairman Watkins called for a vote. Jason Wagnon – yes, Connie Poole – yes, Tommy Walker – yes. Motion passes.
7. ADJOURN. Chairman Watkins asked for motion to adjourn. Tommy Walker made the motion. Jason Wagnon seconded the motion. Chairman Watkins called for a vote. Tommy Walker – yes, Connie Poole – yes, Jason Wagnon – yes. Motion passes.