

CITY OF SCOTT CITY

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SPECIAL CITY COUNCIL MEETING

July 30th, 2018

Call to order: A meeting of the Council was held on July 16th, 2018 in the Council Chambers located at City Hall, 215 Chester Ave. Mayor Brant called the meeting to order at 7:00 PM. The following council members were present: Gary Spinks, Pat Brazel, Mike Rhymer, Andrew Reinhart, Tim Porch and Randy Morse

ABSENT: Heather Ingvalson, Mike Ellison

Also present: Public Works Director; Dustin Whitworth

ABSENT: n/a

New Business:

Meeting to be held with Waters Engineering regarding the work they are doing for the city.

- Rich Cochran with Waters Engineering meet with council at a special meeting on July 30th to discuss getting water pressure to the southeastern part of town and other issues regarding water and sewer lines.

Rich Cochran:

- They have been working on a few projects. They have done a study on the hydraulic system and we have 3 water storage tanks that store 1.1 million gallons total which is sufficient. He stated that he was aware that in 2003 two tanks were painted and that on tank 3 he does not have that record and also does not know the last time it was inspected. Each tank should be inspected every 3-5 years. Public Works Director; Dustin Whitworth stated that they have been meeting those inspections.
- Water sales show that there is 500,000 gallons per day of use. The water meter was broken so there is no exact determinations of the loss rate. DNR wants to have one day of storage in use and at a 15% loss water rate, the 1.1 million satisfies these requirements.
- Water lines have been mapped out and combined into 3 communities. Some areas do not contain water lines. They have determined average water use during peak times and peak flows with water loss going to these lines as well as fire flow. It was noticed that there are areas that do have low pressure and low flow. Measured each hydrant but it does create a backflow pressure so measurement is not exact.
- Low flow area was determined to be near the highway, the backside of the park and also the areas of Roth Street and Old Illmo.
- The tanks are not high enough for those areas, since the ground elevation is too high.
- The 2 inch main is not so much as a concern since they can get water from nearby areas. Rich stated that a smaller line helps to produce cleaner water. While low fire flow is an issue

Recommendations of Improvements per Rich Cochran:

- They have looked in two several options for improvements. Include splitting the area into multiple zones, put a booster station in and an elevated water tank in low pressure areas. The installed tank, booster station and water line upgrades is estimated to cost \$1, 241, 000.00 with an additional expense for electric, replacement account, and future tank painting would cost approximately \$13,000.00 annually (**SEE ATTACHED NOTES FROM WATERS).
- Increase localized pressure with existing well. Doing this improvement shows that it would do little to increase pressure in low flow areas. The pressure increase is less than 2 psi and would not help fire flow

concerns. Total costs for this project would be \$469,000.00 and also require additional operator time at a cost of roughly \$2,000.00 annually (**SEE ATTACHED NOTES FROM WATERS).

- Increase line size leading to the low pressure/flow areas. While replacing the 2 inch line to 6 inch PVC would not increase the pressure it does double the flow available. These improvements would cost approximately \$170,000.00 but could be reduced to \$49,000.00 if the City installs the pipe. Since no additional pumps, motors, etc. are required there is no additional annual costs. This again will do very little to increase pressure in problem areas.
- Of all 3 options the best recommendation is to do the split zoning and installation of elevated water tank and booster station. This also includes replacing water lines due to the small size. This project can be done in Phases.
- Phase 1 would be to replace the water lines and determine if the increased flow capacity makes a difference in the areas where low pressure and flow is a concern.
- Phase 2 would be to install the elevated tank and booster station. This would add an additional 15 psi of pressure onto the water lines in the old Illmo area. This will increase pressure and flows in the highest elevation areas, but keeping the pressure below 100 psi in the lower portions of the area.
- Cost is as stated previously. This would require a rate increase. The City would need to borrow \$1,150,000.00 at a rate of 4.5% over a 20 year period and will require an additional payment of \$88,500.00, with additional costs of \$13,000.00, the total annual increase is \$101,500.00. This would require an average monthly increase of \$4.36 per month per user based on current user's statistics. This project would take 2 years to complete once approved to begin is determined. (**SEE ATTACHED NOTES FROM WATERS).
- A grant cannot be granted unless the rate is a 2% median of household income, which is roughly \$60.00 per month based on current average household income for the area. We also have to be completely in the black before they will look at us as a candidate.
- Elevated tanks are more expensive so if an area can be found where it is not needed to be as tall, we can also find cost savings here.
- Line extension costs are estimated to run \$163,000.00 and Public Works Director; Dustin Whitworth stated he and his crew could do the work on Central and Linden, which brings the cost down to \$145,000.00 (**SEE ATTACHED NOTES FROM WATERS).

Wheeler Street to Steck:


- This area has issues with flooding as the water goes downhill and enters into citizen's yards, homes and streets. The resolve is to look at putting in an underground pipe from Steck all the way to the highway. Then have drop pipes installed at the end of each homeowners driveway to stop from flowing into the neighboring yards and street.
- This will act as a culvert with a drop basin. Catching water at the north end, which in turn will slow down water reaching the south end of the area.
- The total cost of the project would be \$77,000.00 and \$94,000.00 with a contingency.
- First council meeting in September we will have citizens of the area attend a briefings before the scheduled council meeting to explain the project and its benefits. This will occur at 6:00pm, Tuesday, September 4th, 2018.
- Flyers are to be sent to home owners in the area prior to meeting, so to inform them.
- Originally Rich Cochran suggested 12 inch pipe to be used, but Mayor Norman Brant asked that this be increased to 16 inch which will increase the flow. The price difference is very minimal, to change to the bigger size according to Rich Cochran.
- An ordinance is to drawn up for increase of water/sewer rates \$.10 per user, so as to assist in the cost of making improvements to the City.

No further business being presented, moved by Councilman Pat Brazel; Seconded by Councilman Mike Rhymer to adjourn at 7:19 p.m. All in Favor; None Opposed. Motion carried.

Attest:



Michael Dudek, City Clerk



Norman Brant, Mayor

