



STAFF REPORT

DATE: March 3, 2022
TO: Ty Lasher, City Manager
FROM: Anne Stephens, Public Works Director
RE: Public Works Proposed Projects

Sanitary Sewer System:

2022 Sewer Department Budget:

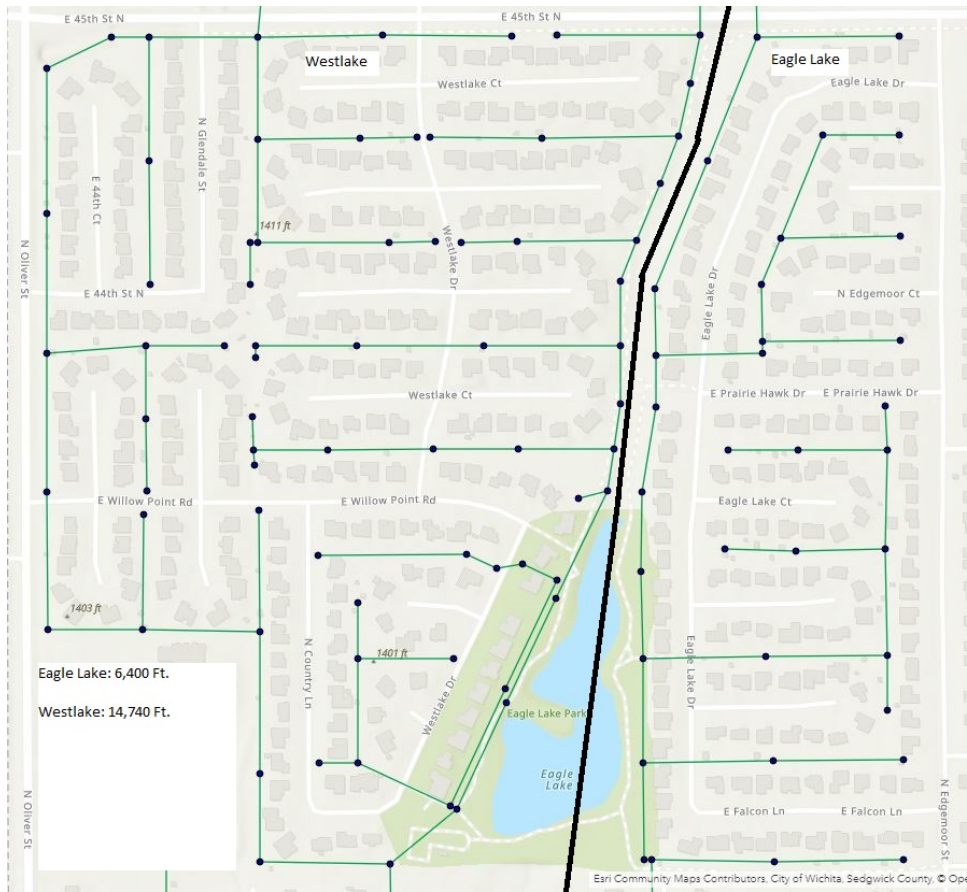
Lift Station Operations	\$60,000.00
Wastewater System Maintenance/Repair	\$150,000.00
Sanitary Sewer Improvements (CIP)	\$600,000.00

2022 Sewer Department Proposed Activities: \$582,052.50

- Continue Cured-In-Place Pipe (CIPP) lining project in Pearson's (see map)
 - o The stretches identified for this work include approximately 5,110 linear feet of 8" pipe and 4,013 linear feet of 10" pipe. This work was bid in 2021, and is currently under construction. The bid price for this work was **\$286,551.50** with an additional cost of \$220 for the removal of protruding taps. At this point, we have not seen an invoice for any work performed thus far.
- Begin Cured-in-Place Pipe (CIPP) lining project in Lawn Terrace. This project will include approximately 2,020 linear feet of 10" pipe and 3,480 linear feet of 8" pipe. We estimate that this project will cost **\$200,000**.



- Replace one of the Rock Road Lift Station pumps with a chopper pump. The removed pump would be refurbished and kept as a spare. **\$37,501.00**
- Clean all Lift Stations 3-4 times (as required) – this reduces grease build up around the edges of the lift station, which in turn reduces strain on our pumps. Staff anticipates spending between **\$14,000 and \$18,000** in lift station cleaning.
- Continue in-house sewer cleaning program – targeting the sewer lines in Park Vista, Lawn Terrace and Quail Ridge.
- Outsource sewer cleaning and televising in Westlake and Eagle Lake. Outsourced sewer cleaning is a deeper clean with a more powerful sewer jet. Outsourcing these neighborhoods will also provide us with video footage of the interior of the sewer lines. Staff estimates that this cleaning will cost approximately **\$40,000.00**.



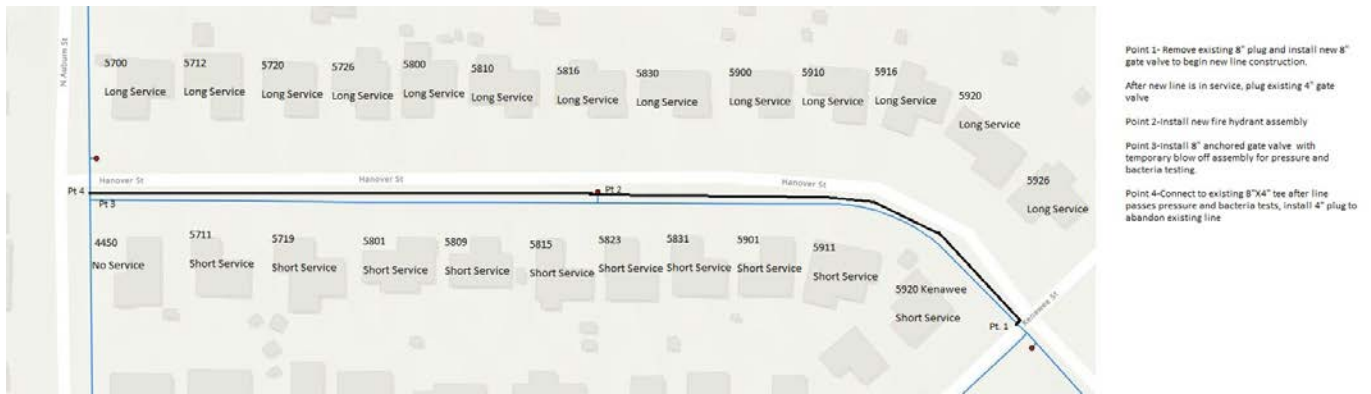
Water Distribution System:

2022 Water Department Budget:

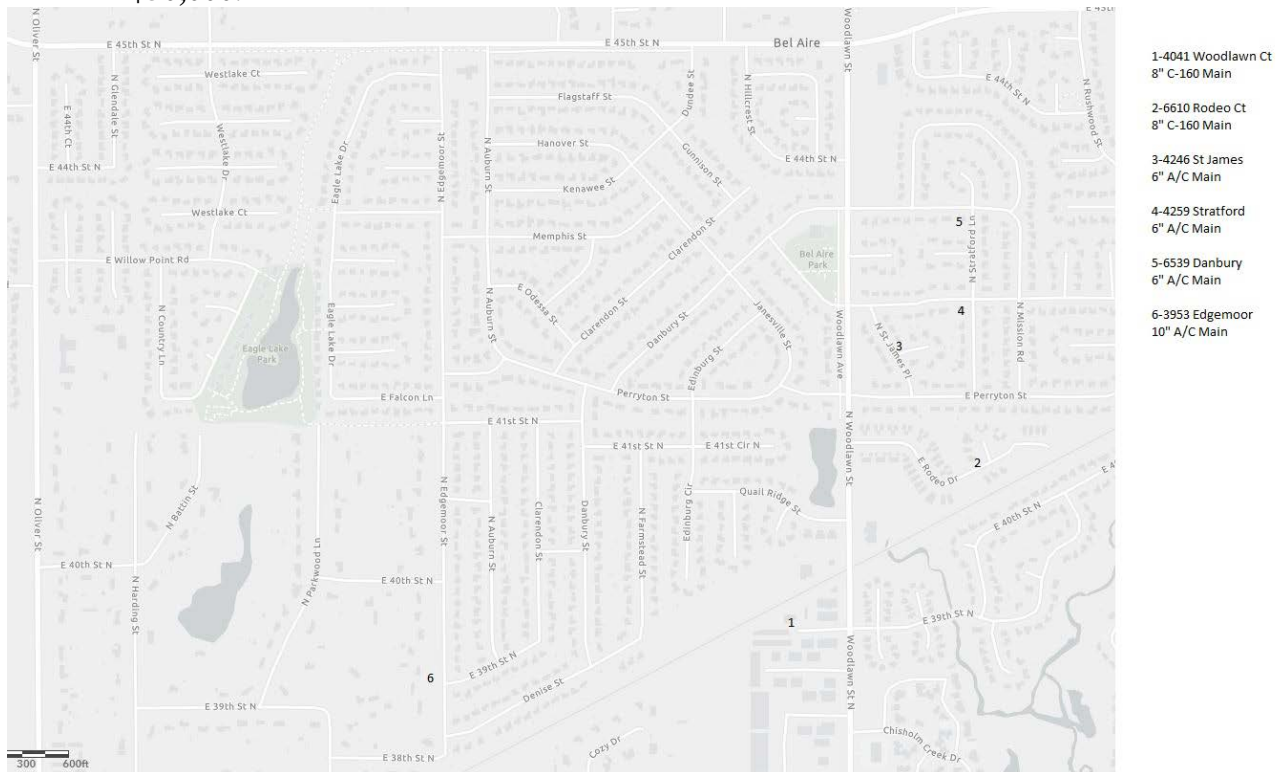
Water System Maintenance/Repair	\$150,000.00
Water System Improvements	\$600,000.00

2022 Water Department Proposed Activities: \$559,950

- Water line replacement – 41st Street, Danbury to Edgemoor (+/- 900 LF). Staff anticipates that this work will cost approximately **\$103,500**.
- Water Line replacement – 40th Street, Oliver to Harding (+/- 600 LF). Staff anticipates that this work will cost approximately **\$69,000**.
- Water Line Replacement – Battin, Harding to dead end (+/- 1,110 LF). Staff anticipates that this work will cost approximately **\$127,600**.
- Water line replacement – Hanover, Auburn to Janesville (+/- 950 LF). Staff anticipates that this work will cost approximately **\$109,250**.



- Replace approximately 58 old water meters with new meters with remote read capabilities (an additional 38 old meters will be replaced with the two Aurora Park water line replacement projects noted above). Staff estimates that the material cost for this project will be **\$25,600**.
- Fire Hydrant Replacements – The Sedgwick County Fire Department has identified a list of 6 hydrants that need to be replaced. Staff anticipates that this work will cost approximately **\$50,000**.



- Water Service Installations – Due to workload, the City has been outsourcing water service installations. In 2021, the City spent a total of \$61,000 on water service installations. Staff recommends budgeting **\$75,000** for water service installations in 2022.

Storm Sewer System:

2022 Storm Sewer Budget:

Drainage System Improvements

\$324,557.00

2022 Storm Sewer Department Proposed Activities:

\$120,000

- Conduct a more detailed drainage study on the shallow pond that is located adjacent to Lycee Heights. With the recent platting of this area, the City needs to look at addressing this area with an engineered pond that will appropriately handle drainage from the surrounding developments. Staff anticipates that a detailed drainage study with construction plans will cost approximately **\$120,000**.
- Staff have no further recommendations for storm sewer work, but will discuss other possibilities

Streets:

2022 Street Department Budget:

In-house activities:

Signs, Materials/Supplies	\$12,000.00
Snow & Ice Removal	\$12,000.00
Paved Street Repair Material	\$50,000.00
Gravel Street Repair Material	\$10,000.00

Out-sourced activities:

Public Grounds Improvement	\$5,000.00
Street Improvements	\$50,000.00
Capital Improvement Fund Transfer	\$1,400,000.00

2021 Street Department Proposed Activities:

In-house activities:

- Mastic/Crack Seal – Bel Aire Village, Quail Ridge, N Woodlawn (Woodlow), Central Park / Elk Creek
- Street Sign Replacement (Summit Hill and Willow Creek – will add on Park Vista and Lawn Terrace if there is remaining funds in the budget)
- Pothole Repairs

Out-sourced activities:

- 53rd Street – Woodlawn to Oliver – As everyone is aware, this stretch of road was not originally designed for the amount of traffic it is receiving. In the past several years, we have continued to make patch repairs as needed for the purpose of extending the life of this pavement. The City contracted with Garver in 2021 to develop plans to reconstruct this road as a two-lane rural section with ditches and left turn lanes at both Woodlawn and Oliver. The plans are about 60% complete and awaiting City review. Reconstructing the entirety of 53rd from Woodlawn and Oliver has an estimate of **\$2,000,000**.
- Project Scoping and Engineering Design for 45th Street Reconstruction – Woodlawn to Oliver – due to the length of time that it has taken for the design of Woodlawn, it is staff's opinion that the City start on the scoping and engineering design for this project so it is ready to go when funding is available through WAMPO. It would also be ready to accept any additional funding that may come available through WAMPO at the end of a fiscal year. The project scoping is not quite preliminary design, but would assist in more specifically defining the project and would assist with funding applications. Some of the project scoping work can be used with the design. The 2019 WAMPO Metropolitan Transportation Plan Application included

a budget cost of **\$669,000** for refinement studies, design, right-of-way acquisition and utility relocation.

- The next area for preservative treatment is Summit Hill. However, with the on-going Woodlawn construction project at the front door to this community, I hesitate to conduct any construction work within this community that would require street closures or to further interfere with access to properties along this corridor.
- As mentioned at the March 1st Council meeting, PEC is working on the street assessment and evaluation. I anticipate that this project will be completed in April and results and recommendations discussed with Council at the May workshop.