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OFFICE OF THE CITY MANAGER

MEMORANDUM

TO:

Mayor/Council

FROM:

Lee Gilmour, City Manager

DATE:

December 6, 2021

REFERENCE:

New Haven/Stonebridge water main breaks

Following up on your request the situation of the continuing water main breaks in New Haven and Stonebridge subdivisions is:

- 1. In 2012-2013 the city allowed C-200 plastic pipe to be installed in subdivisions. This was based on common practice in surrounding communities. Shortly afterward the city returned to requiring C-900 plastic pipe.
- 2. New Haven and Stonebridge subdivisions are supplied from the Houston County water system which uses a psi of 90. The city normally pumps at a psi of 58-60.
- 3. The City has had to repair water main pipe breaks since 2014 as follows:

New Haven Stonebridge

main breaks

4 main breaks

- 4. A pressure reduction valve has been installed at the New Haven subdivision which reduces the water main pressure but does not eliminate main breaks.
- 5. Generally, each break requires replacing 4-8 feet of water main. The break is a horizontal split of the pipe.

Options to addressing this situation are:

- 1. Continue the process of responding to each break and repair the effected section.
- 2. Install two (2) pressure reducing valves for Stonebridge subdivisions. This will help but not eliminate breaks as New Haven subdivision has shown. The estimated cost is \$ 65-75 K.
- 3. Convert the water supplier to the city with its reduced pressure. Estimated cost is \$ 250 K.
- 4. Complete looping and valving water mains through Sandie Heights subdivisions. No cost.
- 5. Install additions insolation valves to reduce the number of customers affected by a break repair. Cost per valve \$ 2,500.
- 6. Replace all the C-200 pipe. Estimated cost \$ 1.2 million.

Issues with options are:

- Pressure reduction will impact the irrigation and home use in Stonebridge subdivision by reducing the irrigation systems operating pressure and having less water pressure flow for showers, etc.
- 2. Line replacement will require severe disruption in existing yards, sidewalk/driveway replacement, 1 year to complete.
- 3. Pressure reduction does not result in eliminating the water leaks.
- 4. Conversion to city supply would still leave the c-200 pipe, requires negotiations with the County, issues with lower pressure.

cc: Mr. R. Smith

Ms. A. Fitzner

Mr. C. McMurrian

Mr. T. Falcione, ESG Operations, Inc.