

Large Meter Replacement Project



Public Work & Utilities/Water
Distribution

April 5, 2022



Background



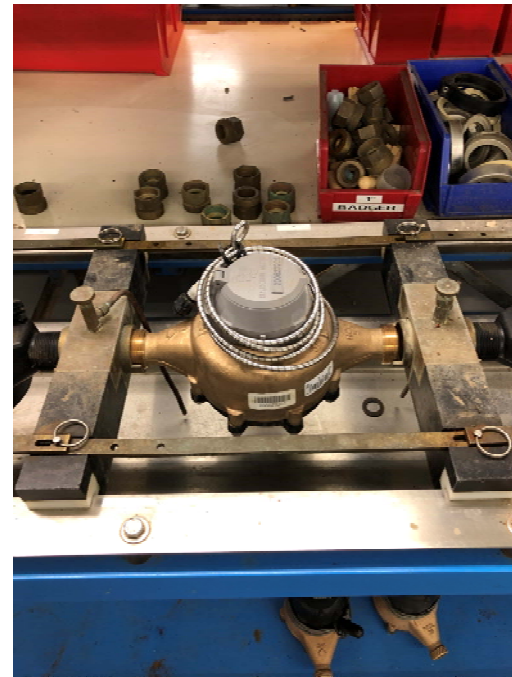
- The City has numerous large water meters, which have a diameter of greater than two inches
- (32), six, eight, and ten- inch meters have been prioritized for replacement
- These large meters have the capacity to provide a significant flow of water to support industrial and commercial applications



Background



- The 32 priority meters are mechanical, turbine type meters that are past their expected service life
- Turbine meters slow down and under read flow at the end of life
- Turbine meters also do not register all water during low flows



Background



- Failing turbine meters will be replaced with best available technology- ultrasonic meters
- Ultrasonic meters utilize transit time flow measurement, which enables accurate measurements over a wide flow range
- Plumbing and appurtenances will be rebuilt where necessary
- From 2019 to 2021 a pilot project was carried out at 8 sites where large turbine meters were replaced with large ultrasonic meters



Pilot Project Results & Analysis



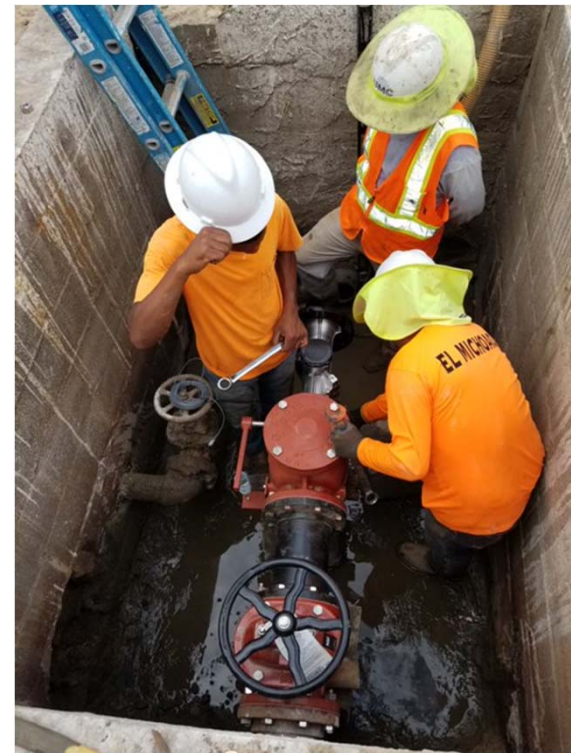
- Measured consumption increased by 24%
- Revenue increased by 16%
- Revenue enhancement from the project is expected to be approximately \$440,000 annually
- The project is in alignment with Utilities Optimization Program goals



Financial Considerations



- Authorized funds will be used to replace 32 of the largest and highest priority meters
- The approved 2021-2032 CIP includes \$500,000 in 2021 and \$100,000 in 2022 for water distribution meter replacements



Recommendation



- It is recommended that the City Council approve the project, adopt the resolution, and authorize the necessary signatures.



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