DATE: August 27, 2024

TO: Peter Zanoni, City Manager

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Utility Network Implementation Project

CAPTION:

Motion authorizing execution of a two-year professional services agreement with Axim Geospatial, LLC, of Sun Prairie, Wisconsin, through the Texas Department of Information Resources, for $525,959.47 to replace the outdated 20-year-old version of the ESRI Utility Network for the City's Water and Wastewater Geographic Information System (GIS) database, which will no longer be supported in the fall of 2025 and to implement an upgrade to the utility network system to be managed by Corpus Christi Water, with FY 2024 funding of $315,000 from the Water Fund.

SUMMARY:

The motion authorizes a professional services agreement with Axim Geospatial through the Texas Department of Information Resources (DIR) to implement the ESRI Utility Network for the City's water and wastewater systems. This will involve preparing Geographic Information System (GIS) data for future analysis and demand. The current geometric network will no longer be supported in the fall of 2025. ESRI has developed custom tools and applications that only work with the upgraded Utility Network. The one-time cost of this implementation will be $525,959.47.

BACKGROUND AND FINDINGS:

The City's current geometric network system supporting the GIS Utility Network is 20 years old and outdated. ESRI will no longer support the network in the fall of 2025. ESRI develops custom tools and applications that only work with the upgraded Utility Network software.

The Utility Network upgrade will enable the City to provide advanced network modeling, visualization, analysis, and architecture/security to the GIS Utility Data system. This upgrade will also allow CCW to conduct real-time analysis and water flow modeling of its assets. The utility database encompasses Water, Wastewater, Gas, and Stormwater assets.

GIS water and wastewater data is also used by other City applications, including the Maximo work order system, Cartegraph Operation Management System (OMS), and public-facing applications such as the 311 mobile application. GIS utility data contains location-based information on assets such as water lines, wastewater mains, air release valves, fire hydrants, and manholes. These are crucial to the City's utility programs, such as the Wastewater Consent Decree program. The City also provides this utility information to contractors in support of engineering and analysis projects.

PROCUREMENT DETAIL:

This procurement is being facilitated through the DIR. Contracts awarded through the DIR have been competitively procured in compliance with State and Local procurement requirements.

Information Technology and the Procurement Division of Finance examined pricing through DIR, TXShare Cooperative, and the manufacturer's suggested retail price.

Cooperative	Price
DIR	$525,959.47
TXShare	$542,138.38
MSRP	$535,872.00

ALTERNATIVES:

Continue using the unsupported 20-year-old geometric network, which will no longer receive security improvements, application updates, or enhancements.

FISCAL IMPACT:

The fiscal impact to the Water Fund in FY 2024 is $315,600.00.

FUNDING DETAIL:

Fund: 4010 Water Fund
Organization/Activity: 31520 Treated Water Delivery System
Department: 45 Water
Project # **(CIP Only):**   **n/a**
Account: 520130 Maintenance & Repairs

RECOMMENDATION:

Staff recommends approval of this resolution authorizing a two-year agreement with Axim Geospatial.

LIST OF SUPPORTING DOCUMENTS:

CC UN Implementation Agreement
Price Sheet