

MEMORANDUM

To: Village Manager Cara Pavlicek
From: Deputy Public Works Director Matt Morrison
Date: 2024-10-22
Subject: A Resolution Authorizing the Purchase of Itron Radio Equipment for the Automated Water Meter Project from United Systems and Software, Inc. of Benton, Kentucky.

Overview

The Village of Northbrook has identified the ComEd radio network as the preferred network solution for the Automated Water Meter Project. To utilize that network, the Village must utilize Itron radio equipment ("endpoints") that will communicate the reads from the water meters to the ComEd radio network.

Fiscal Impact

The Village of Northbrook will purchase the necessary Itron radio equipment ("endpoints") for the Automated Meter Project. The cost of these purchases is approximately \$1,325,360. Staff is seeking a contingency of \$100,000 for a total not to exceed spending authority of \$1,425,360 should additional endpoints or materials be required. Funds for this purchase will be taken from Water Fund Account 21-4180-702-00. Depending on the timing of the expenditure, a budget amendment may be required for the FY 2024/25 Budget.

Recommendation

Approval.

Background

The Village of Northbrook has identified the ComEd radio network as its preferred solution to transmit the remote reads from the new water meters that will be installed. The ComEd radio network is an Itron based radio system. To connect those water meters to the ComEd radio network, the Village must utilize Itron radio equipment ("endpoints") that communicates the reads from the water meter to the ComEd radio network. The endpoints will connect to the Itron software that will interface with the ComEd radio network and BS&A Utility Billing module. The Village will execute a separate agreement with Itron for that software.

The Itron radio equipment endpoints are distributed by United Systems and Software, Inc. of Benton, Kentucky. The Village will purchase the necessary 12,203 endpoints, mounting equipment, as well as 1,083 retrofit kits for the existing Neptune Mach 10 meters currently installed within the system. The cost for this equipment is \$1,325,360, which is outlined in the quote provided by United Systems and Software, Inc. and included as Exhibit A. Staff is

seeking a contingency of \$100,000 for a total not to exceed spending authority of \$1,425,360 should additional endpoints be required.

If the Village Board is in concurrence with the purchase of this radio equipment and the attached Resolution is passed, a purchase order for the procurement of the radio equipment will be issued by the Village to United Systems and Software, Inc. Delivery of the radios is anticipated by April 2025 to coincide with the installation of the new meters beginning in April 2025.

[A Resolution Authorizing the Purchase of Itron Radio Equipment for the Automated Water Meter Project.docx](#)

[Exhibit A - Itron Radio Equipment Quote.pdf](#)