



VILLAGE OF PLOVER

2400 POST ROAD - PO BOX 37 - PLOVER, WISCONSIN 54467
WWW.PLOVERWI.GOV

RESOLUTION 08-23-23

WHEREAS, The Federal Government through the State of Wisconsin has established the American Rescue Plan Act (ARPA), and

WHEREAS, The Village of Plover has been awarded \$1,371,053.40 from this program, and

WHEREAS, The ARPA program is to be used to help municipalities recover from the lost revenue from the COVID 19 Pandemic.

NOW, THEREFORE, BE IT RESOLVED that a budget amendment be made to install a Wireless upgrade to the Wastewater Treatment Plant improved connectivity at a cost of \$29,117, from Account Number 270-57100-000-000.

Adopted by the Village Board of the Village of Plover this 1st day of August 2023.



Gary Wolf, Village President

ATTEST:



Tammy Wojtalewicz, Village Clerk

Submitted By: Steve Schaut, IT Manager

Date: 7/26/2023

Subject: Wastewater & Well 3 Wireless Improvement Proposal

Background:

The wastewater department currently utilizes the multipoint wireless connection shared with the water and public works departments along with camera systems that connect back to the Lincoln water tower. During high usage we have had issues with silence on calls and network speeds based on usage from the shared sites.

The wastewater department sits in a unique location which is difficult to get a high-speed connection to. Due to being the most distant location from the Lincoln water tower it also has the highest latency connections in the village for phone, utility, and conferencing software. The well 3 location has the shortest connection to the multipoint wireless network but experiences the same interference and speed degradation as our other wireless locations.

I am proposing that we use ARPA funds to pay for this improvement. This upgrade will cover the current network needs for the wastewater department and will facilitate a primary/failover setup with the existing wireless if equipment fails at either the wastewater or Well 3 locations. The existing multipoint wireless network will continue to serve as an emergency backup for our sites and for existing camera system traffic.

Wireless Network Improvement (\$29,117.00)

This update will primarily improve the network connection for the wastewater department from its wireless connection to a low latency and interference free licensed wireless connection. The existing wireless speeds of < 100Mbps will increase to 350Mbps with a significant improvement to latency and have an equal upload speed as they have a server that needs to be backed up nightly. This will also allow them to have several video conference sessions and calls without delays or network issues and permit the backups at night to complete in a timely manner.

The competitive Selk quote for the wireless installation was \$26,789.91 for similar materials and labor cost. They have been busy with various projects this year and have limited availability and knowledge with the Cambium/Motorola products. Baycom specializes in these products and has been quite helpful in assisting and troubleshooting our existing products purchased from Selk.

Action Requested:

Approve the purchase for connecting the wastewater department and well 3 locations to the Lincoln water tower with licensed wireless bands by Baycom at a cost of \$29,117.00 (\$26,117.00 + \$3,000.00 for tower crew assistance) to be paid with ARPA Funds. Account #270-57100-000