

DATE: January 31, 2023

TO: Peter Zanoni, City Manager

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Purchase of Battery Backup Systems (BBS) for Public Works (City Traffic Signals)

CAPTION:

Motion authorizing the purchase of 24 battery backup systems for City traffic signals from Paradigm Traffic Systems, Inc. of Houston, for \$127,200.00, through the BuyBoard Cooperative, for the Public Works Department with FY2023 funding available from the Streets Fund.

SUMMARY:

This motion authorizes the purchase of 24 battery backup systems. The battery backup system at each location will be installed under a service agreement following the City's procurement process.

BACKGROUND AND FINDINGS:

The Department of Public Works aims to improve safety at all signalized intersections in the City by providing continuous traffic signal operating during a power outage. During outages, a Battery Backup System (BBS) can continue to provide power for traffic signal operations. A typical power outage lasts between 1 to 2 hours. A BBS is expected to supply power to a traffic signal for 4 to 6 hours.

There are 253 signalized intersections maintained by the Department of Public Works. To date, 191 BBS have been installed.

The Public Works Department is currently working to upgrade the remaining 62 BBS locations between the next three fiscal years. In the FY 2023 budget, there is funding available to upgrade

24 BBS locations. Each BBS comes equipped with batteries, a remote management system, a cabinet to house all the equipment, and a five-year warranty for the system. Delivery of the BBS is estimated to take 60 to 120 days.

The 24 locations were selected based of "the need" and the traffic volumes of each specific intersection. Staff will work to ensure the distribution of BBS is equitable at the completion of this multi-year project.

Fiscal Year	# of BBS Installed
2020 – 2021	88
2022	103
2023	24
2024	24
2025	14

PROCUREMENT DETAIL:

The procurement was completed through the BuyBoard Cooperative. Contracts awarded through the BuyBoard Cooperative have been competitively procured in compliance with Texas Local and State procurement requirements.

Paradigm Traffic Systems, Inc., is the incumbent supplier. The BuyBoard Cooperative offers a cost savings of 33% when compared with HGACBuy Cooperative. Battery Backup Systems have slightly increased by 6% from the 2021 purchase.

ALTERNATIVES:

The alternative is to not purchase battery backup system which will leave a majority of the City's signalized intersections without the ability to maintain traffic signal operations during a typical power outage.

FISCAL IMPACT:

The fiscal impact for FY 2023 is \$127,200.00, with funding available from the Streets Fund.

FUNDING DETAIL:

Fund: 1041 Streets Fund Organization/Activity: 12310 Traffic Signals Mission Element: 051 Maintain pavement & associated improvements Project # **(CIP Only):** N/A Account: 530215 Maintenance & repairs - contracted

RECOMMENDATION:

Staff recommends approval of the purchase from Paradigm Traffic Systems, Inc. of Houston as presented.

LIST OF SUPPORTING DOCUMENTS:

Price Sheet Locations COF