



REPORT TO CITY COUNCIL

To: Honorable Mayor and Members of the City Council

From: Grant Yates, City Manager

Prepared by: Jason Simpson, Assistant City Manager

Date: September 24, 2019

Subject: Purchase of Portable Solar Powered Lights from Greenshine New Energy for both the McVicker Skate Park and City Yard.

Recommendations

1. Authorize the City Manager to execute a Purchase Order for \$76,020.10 for the purchase delivery of portable solar-powered lights from Greenshine New Energy.
2. Waive the formal bidding process per Municipal Code Section 3.08.070(G) for purchase from Greenshine New Energy since Greenshine New Energy is the only manufacturer that can provide the above-ground concrete footing and mounting system.

Background

Last year Staff purchased several portable solar-powered lights from Greenshine New Energy to test and evaluate the product in multiple City-wide applications. The primary function tested was for passive and security lighting in City parks and City maintenance facilities. In every tested application the lights performed very well. The additional benefit of the lighting mobility, in fact, exceeds the City's expectation by providing highly flexible and available lighting resources that can be deployed into a variety of working conditions, special events or night maintenance operations.

Solar-powered technology utilizing highly efficient LED lights has recently made it cost-effective for Cities to incorporate this technology into project design. Solar lighting capital costs have been reduced with the development of better lighting technology and a wide range of competition in commercial markets. The capital outlay for these systems is well below the conventional lighting systems of the past, and the operational electrical costs are next to none and fully warranted for over ten years.

Discussion

The proposed Lumina Solar Lighting System is used for pathways, parking lots, and parks. The system comes with multiple fixture options all with great light output with various fully customizable working times, distribution patterns, and dimming capabilities that are easily adjusted for coverage requirements. Separating this lighting system from the completion is the pre-constructed footing and pole mounting device. Greenshine New Energy is the only

manufacturer of solar-powered LED lights that makes available for purchasing the footing systems that can be placed above or below ground, which is a unique feature that makes these lights very mobile. It is the basis for the sole source provider purchase recommendation. Even though this is a sole source purchase, staff has informally verified the cost is within all known industry standards for similar lighting systems.

This purchase includes a total of seventeen solar lights. Ten of the lights will be placed in the City yard and provide security and convenience lighting. Seven of the lights will be placed at McVicker Skate Park and will extend the use of the park and assist in the after hours observation and security of the facility.

Light pole features include:

- Seventeen 20' hot-dipped galvanized steel poles
- Seventeen Concrete above ground portable bases
- Seven 6' arms and ten 4' arms fixture tile at 15 degrees
- Solar panel mounting brackets at the top of each pole

The solar panel cells are Mono-Crystalline cells and include the following features:

- Aluminum frame with a strong design to withstand high winds
- Highly resistant tempered glass
- Multilayer solar panel encapsulation with triple-layer back sheet
- 25-year power output warranty: 5 years/95%, 12 years/90%, 25 years/80%.

Solar power is stored in a GEL deep cycle battery with a 12-year design life that is specially designed for frequent cyclic discharge and recharge under extreme temperature.

Waiver of Competitive Bidding Procedures

Under Section 3.08.070(G) of the Municipal Code, the City Council has the discretion to waive the competitive bidding requirement that would otherwise be utilized for this purchase. The solar system benefits outlined above and the fact that this product with the mobile above ground footing system is not available through other vendors, staff recommends that the City Council waive the competitive bidding pursuant to Municipal Code Section 3.08.070(G) and allow the City Manager to purchase directly with Greenshine New Energy as outlined in this agenda report.

Following the approval of this agenda item, a purchase order will be executed for the seventeen solar lights from Greenshine New Energy.

Fiscal Impact

Sufficient funds are included in the Fiscal Year 18/19 – 22/23 Capital Improvement Plan (CIP) budget.

Exhibits

A – Quote

A1 - Quote