



REPORT TO CITY COUNCIL

To: Honorable Mayor and Members of the City Council

From: Jason Simpson, City Manager

Prepared by: Rick DeSantiago, Public Works Manager

Date: October 24, 2023

Subject: Purchase of 32 LED Lighting System for the Levee Walking Path Trail

Recommendation

Approve and authorize the City Manager to execute a Purchase Order with Holophane for 32 LED Lighting Systems for the Levee Walking Path Trail in an amount not to exceed \$197,278.60 in such final form approved by the City Attorney and authorize the City Manager to execute change orders not to exceed a 10% contingency of \$19,727.00 for unanticipated costs.

Background

The Levee Walking Path Trail is a popular recreational trail. The trail is situated along the levee that runs parallel to the lake's shoreline, providing scenic views of the lake and the surrounding landscape. The levee trail is approximately 3.5 miles long, making it a great option for walking, jogging, running, cycling and outdoor fitness equipment. The trail is flat and well-maintained, making it accessible for people of all fitness levels. It is a popular destination for locals and visitors alike, seeking outdoor activities and enjoying the natural beauty of the area.

Placing an LED lighting system along the levee walking path trail will offer important benefits; one of the primary reasons for installing LED lighting is enhance safety. By illuminating the walking path, it allows people to use the trail during the evening or low-light conditions, improving visibility and reducing the risk of accidents or falls. Installing an LED lighting system for the levee walking path trail improves safety, security, accessibility, aesthetics, and energy efficiency. It enhances the overall experience for trail users and contributes to the enjoyment of and utilization of this important community resource.

Purchase of 32 LED Lighting System for the Levee Walking Path Trail

Discussion

Evergen solar lights offer several benefits. **Energy Efficiency:** Evergen solar lights use renewable solar energy to power the lights, reducing reliance fossil fuels and lowering carbon emissions.

Features:

- 25 ft. pole
- Made in USA
- 170-Watt Polycrystalline Solar Panel
- Bluetooth and App for local configuration and testing
- Satellite modem for remote monitoring with insight remote monitoring platform subscription
- Solar panel and battery overvoltage protection
- LED short circuit protection and unconnected LED protection
- Internal PV disconnect
- Reverse battery polarity protection
- Self-calibration load, timing, and charging circuitry

Benefits:

- Flexible operating modes (dusk to dawn, split night, split night with dimming)
- Fully tested at the Sol factory before shipment to ensure reliable operation and trouble-free startup
- Programmed by Sol based on your project requirements eliminating confusing switch and knob setting
- Bluetooth and app for simple and secure setup
- Integrated MPPT charging and LED driving system reduces system failures, overall system complexity and cost
- Integrated surge protection and noise reduction
- Keyed connectors for simple and reliable assembly
- Temperature compensated and MPPT controlled battery charging to maximize battery life and energy collection
- High temperature charge compensation to ensure component longevity
- Memory averaging to ensure accurate turn on and turn off of lights to prevent false response due to weather variations
- 10 year limited warranty

Staff solicited three proposals for the purchase and installation of LED lighting systems for the Levee walking path trail. The amounts of each proposal are listed below:

Company Name	Quantity	Total Price
Holophane	32	\$197,278.60
Greenshine New Energy	63	\$198,960.44
Facily Solutions Group	63	\$341,476.31

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Holophane recommended 32 LED lights versus 63 as Holophane ensures the 32 LED lights will light the path with a brighter light rather than the other 2 companies and use half the number of lights. These lights are more expensive per unit (\$3,500.00), but due to the fewer number of lights that still provide the same amount of walkway lighting. The Holophane proposal has been determined responsive and is recommended.

Fiscal Impact

Funds are available in the City's Fiscal Year 23/24 Capital Improvement Plan (CIP).

Attachments

Attachment 1- Proposal