



REPORT TO CITY COUNCIL

To: Honorable Mayor and Members of the City Council

From: Jason Simpson, City Manager

Prepared by: Shannon Buckley, Assistant City Manager

Date: September 12, 2023

Subject: Award a Public Works Agreement to RAMCO Docks, LLC for the City Fishing Docks, and Boat Docks Project (CIP Project #Z40034)

Recommendation

Approve and authorize the City Manager to execute an agreement with RAMCO Docks, LLC in an amount not to exceed \$476,200.00 for the design, fabrication, and installation of the City fishing docks and boat docks project (CIP Project #Z40034) in such final form as approved by the City Attorney and authorize the City Manager to execute change orders not exceeding a 10% contingency of \$47,620.00 for construction uncertainties and adjustments.

Background

Since the improvements at the boat ramp at Launch Pointe RV Resort, lake operations have been increasingly busier throughout the year. In addition, the popularity of boating and water sports has grown and the need for fishing docks and boat dock areas to grow and expand the capacity to fish and dock boats has never been greater on Lake Elsinore. And with only so much usable real estate available on existing docks, expansion can be a difficult task.

The current fishing dock and boat dock accessibility is limited to two side docking piers that are primarily used for launching and loading boats. This configuration is unsafe and problematic during higher use periods. It has been identified to provide boaters with an opportunity to dock their boats separately from the boat ramp area and then walk ashore to enjoy the many amenities available at Launch Pointe. This is quite a common boating convenience at any lake and one that will improve the overall experience on Lake Elsinore.

Discussion

Staff have been working with Ramco Docks to design additional fishing and boating dock capacity on the Lake. The primary goal here is to set up a moveable dock that can perform within the specific constraints of our location. Some site-specific considerations have dictated the project design, number of boat slips and configuration, and preferred material choices. Here are essential considerations for the docks.

- Water level change throughout the year
- Water depth and drop-off
- Wind and water waves impact
- Shore geology
- Lake bottom conditions

Together with the City Staff, Ramco has performed water depth analysis, wind effect studies, and wave and breaker influencing impacts on shoreline and future boat slips. With these considerations, it is determined a floating dock system designed allows the City to tie off more boats, give more people access to the lake area and doesn't necessarily impede access from the shoreline, and will accommodate a larger group of boats or other watercraft.

The design includes 10 feet wide and 28 feet long docks. Below is a schematic with measurements referencing the entire project:

RAMCO is a full-service boat dock manufacturer and will fabricate the specified boat docks in their offsite factory, deliver the docks to the lake, and install the entire system. This system will not be permanently fixed to the lake but rather anchored to the bottom and removable and adjustable for changing water conditions. The primary structure will be aluminum dock frames utilizing high-strength MIG and TIG welded structures, fabricated with marine-grade extruded aluminum. These boat dock frames meet and exceed the State of California load-bearing specifications for aluminum frame dock systems. Aluminum boat docks offer the following advantages over wood structures:

- Extremely high durability to the stress of wake and boat mooring
- High resistance to corrosion and degradation
- A much higher strength-to-weight ratio
- A much longer overall product lifetime.

The anchoring of this system will utilize heavy-duty 5/16" galvanized steel cables and heavy-duty winches and turnbuckles to secure the entire dock to the lake bottom.

An additional feature of this project design is a wakestopper system that will be installed on the outside (open lakeside) of the docks. The system includes a floating aluminum structure that is designed to provide major attenuation of wakes and waves on large bodies of water. Wakestopper utilizes flotation and bottom weights to hold the framed panels in place vertically to block wake and wave energy past the 8' x 20' aluminum panels. The 8' x 20' panels will be connected end to end to provide a line for the full length of the dock project for wake and wave reduction.

Fiscal Impact

Funding costs are included in the Fiscal Year 23/24 – 28/29 Capital Improvement Plan (CIP) budget, CIP Project #Z40034.

Attachments

Attachment 1 - Construction Agreement
Exhibit A - RAMCO Docks LLC Proposal
Exhibit B - DIR