COMPONENT DESCRIPTIONS

Welcome Mat
Hub
Overwater Drive
Overwater Bridge
Lens Canopy
Promontory (continued)
Lens Marina
Underwater Feature

Marina

1.0 Architectural Description

1.1 The Marina is a key component of the new Pier, offering a multitude of opportunities for water-based activities. The Marina will accommodate a range of non-motorized watercraft from kayaks, to paddle boats and stand-up paddle boards. The Marina consists of a modular floating dock approximately circular in shape. The floating dock has an integrated wave barrier that protects the interior of the Marina from Bay wind and waves.

The Marina is accessible from the Overwater Drive via a pair of articulated, fully ADA compliant gang planks and from the Overwater Bridge via the arched stair.

The floating dock will accommodate a series of planned enhancements: a concessions stand, bait shop and kayak rental facility among others. The marina bathrooms are located south of the Marina on the Overwater Drive. The Marina’s north-east side will also feature a dedicated fishing area.

1.2 Code References


1.2.2 NFPA 303 - Fire Protection Standard for Marinas and Boatyards


1.2.5 UFC-4-152-07 – Design: Small Craft Berthing Facilities (14 July 2009; Change 1, 1 September 2012)

1.2.6 Layout & Design Guidelines for Marina Berthing Facilities – California Department of Boating and Waterways, July 2005.

1.3 Permitting Agencies

1.3.1 US Army Corps of Engineers – Section 10 Rivers and Harbors Act

1.3.2 US Army Corps of Engineers – Section 404 Clean Water Act

1.3.3 SW Florida Water Management District – Environmental Resources Permit
Figure 4.11 Marina Program Component and Related Subcomponents
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1.3.4 SW Florida Water Management District – Coastal Zone Management Act Consistency Determination

1.3.5 SW Florida Water Management District – Section 401 Clean Water Act Certification

1.3.6 Pinellas County – Commercial and Multi-Use Dock Permit

1.3.7 City of St. Petersburg – Building Permit

1.4 Dimensional Drivers

1.4.1 All dimensions in relationship to N 23

1.4.2 Vertical Datum = NAVD88

1.4.3 Total Area = 9,150 sq. ft.

2.0 Marina Subcomponents

2.3 Restrooms

2.3.1 There are (4) restroom stations.

2.3.2 The restrooms are located to the south of the Marina on the Overwater Drive.

2.3.2 Each restroom station will be equipped with (1) toilet and (1) lavatory.

2.3.3 A baby changing station will be provided in each restroom.

2.5 Floating Dock

2.5.1 The total area of the floating dock is 9,150 sq. ft.

2.5.2 The floating dock will likely be a proprietary product made from combinations of concrete, marine grade aluminum, and composite plastics. Durability of the floating docks shall be at least 25 years as per international accepted standards for these products.

2.5.3 The deck surface of the floating dock will be of treated timber construction.

2.5.4 Access to the floating dock during all tide cycles requires articulated gangways. Gangway structures will be marine grade aluminum and have a maximum slope of 3H:1V for safe access at mean low water (MLW). The design load of the gangway platform is 100 psf for the structural load and 50 psf for the load transferred to float plus the dead load of the gangway. All gangway transition plates and handrails will comply with Americans with Disabilities Act (ADA) requirements. The elevation of the gangway access platforms will be above the design high water level (100-year event).
2.5.5 All utilities will run in a trench around the floating dock forming a basic utility spine. As the Marina expands, utilities can be plugged into this basic system.

2.5.6 A dedicated fishing area is located on the north-east side of the Marina

2.6 Arched Stair

2.6.1 The arched stair is the gateway to the Marina and has a maximum opening of 50 ft. wide. At its highest point, the bottom surface of the arched stair is 20 ft. above mean sea level. The sides of the structure step up as they form the arch.

2.6.2 The arched stair is 6 ft. wide, and has 40 steps from the wave wall deck to the intersection between the arched stair and the Overwater Bridge.

2.6.3 The top of the arched stair will be fixed to the Overwater Bridge with the bottom of the stair resting on the floating dock. The arched stair will be articulated to account for tidal change.

2.6.4 The arched stair will be constructed of aluminum.

2.6.5 The walls of the arched stairs will be clad in wood with aluminum guardrails provided on both sides.

2.6.6 The arched stair will have step lights on the stairs and side warning lights for watercraft.

3.0 Systems

3.1 Mechanical – None

3.2 Plumbing

3.2.1 Potable water will be supplied for use at the restrooms.

3.2.2 Wastewater removal will be required from the restrooms.

3.2.3 Hook ups for sanitary and domestic water will be provided for the floating dock.

3.3 Electrical

3.3.1 Low level fixtures will be provided at the floating dock.

3.3.2 Step lighting will be provided at the arched stair.

3.3.3 Hook ups for electrical will be provided at the floating dock

3.4 Technology – None

3.4.1 Wi-Fi will be provided at the Lens Marina, as well as at all other project components.