

ADDENDUM #4
DESIGN CRITERIA

Issued: September 16, 2022

1. The current RFP describes general scope of work for the project but provides no design criteria for the Breakwater and Marina Floats. Please provide the Design Criteria used during the 30% design used for permitting. Please include Wave Transmission required to be dissipated at the Breakwater Float along with Wind, Wave and current loads to be considered.

Dead Load

Weight of all construction materials

Live Load

Floats: 20 psf (Uniform)
400 lbs (Concentrated)
Gangway: 100 psf (Uniform)
400 psf (Concentrated)

Mooring Load to Float Cleats

5 tons

Wind

75 mph with vessels in marina

Design Wave (For Breakwater Float)

$H_D = 4.3$ feet

Wave Transmission Criteria for Breakwater Float:

10-year Significant Wave from North:

Height: $H_s = 2.6$ feet

Period: $T_p = 2.1$

Transmission: 40% of 10-year significant wave height (1-foot interior wave height)

Current Speed:

< 1 knot within marina basin

Design Life:

50 years with routine maintenance

Light Transmission on Floats and Gangway:

50% open grating area on floats and gangway except the breakwater float.

All Exposed Steel Shall Be Galvanized

Provide at least one 80-foot-long gangway

Electrical

Provide 30A, 120V outlet for slips up to 42-feet in length. Provide 50A, 120A/240A service for slips greater than 42 feet in length.

- 2. Please clarify what level of design is needed at time of proposal?

Provide 15% level design drawings at time of proposal to demonstrate overall approach, dimensions, material type, and marina configuration.

- 3. If no design criteria is provided at time of proposal, what additional design criteria will be applied by owner after award?

Design criteria is provided above.

Additionally, the overwater coverage area of the marina (including gangways) shall not exceed 21,555 square feet. This area includes the floats with open grating depicted in the 30% drawings. The current 30% design accommodates the following slip counts. The DB Team’s marina layout shall meet or exceed this slip count.

Slip Length (ft)	Number
80	3
60	7
42	26
30	23
20	24
Total:	83