In accordance to California Building Code [A] 104.10 Modifications. "Wherever there are practical difficulties or circumstances which make it impracticable to comply with the applicable provisions of this code, the Chief Building Official shall have the authority to grant modifications provided that the intent of the provisions of this code is maintained, that the modifications are consistent with the intent and purpose of this code, and that such modifications do not impair the public safety, health, and welfare. The details of the proposed modifications shall be submitted to the City of Newport Beach, the City Chief Building Official or his designee for approval. The City Chief Building Official or his designee shall have the authority to approve the modifications subject to the conditions and limitations established by the City of Newport Beach. The City Chief Building Official or his designee shall have the authority to approve such modifications on a case-by-case basis with the approval of the Building Department.

Liability and Risk

1. ALTERNATIVE BERTHING GEOMETRIES

Figures and "Case" geometries can be utilized as shown, or in combination with one another, in an effort to meet intended design needs. The indications for these examples are not exhaustive as other alternative geometries may be used. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice.

The limits and constraints of construction in the harbor are defined by a series of lines that have been established over time by the Federal Government, as well as the City of Newport Beach. These lines have been mandated for purposes of navigation and fire protection system.

In accordance to California Building Code [C] 108.10 (Administrative) - design and construction of structures and facilities.

The provisions of law are not intended to prevent the installation of any type of man-made structure or facility as long as the structure or facility is constructed in such a manner as to ensure the safety of the public, the fire protection system, and the environment. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice. The City of Newport Beach reserves the right to mandate deviation from these examples without further notice.

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2. TABLES

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Table A: Specifications for Marine Structures

1. Structural Design
   - Structural design shall comply with applicable local, state, and federal codes.
   - All structural components shall be designed to withstand the forces imposed by wave action, wind, and ocean currents.

2. Marine Systems
   - Marine systems shall be designed to meet the requirements of the California Building Code.
   - All marine systems shall be designed to withstand the forces imposed by wave action, wind, and ocean currents.

Table B: Design Criteria for Marine Structures

1. Load and Design Criteria
   - Design criteria for marine structures shall be based upon the use of the facility defined in the project submission.

2. Loading Criteria
   - Loading criteria shall be based upon the use of the facility defined in the project submission.

3. Environmental Conditions
   - Environmental conditions shall be considered in the design of marine structures.

4. Structural Analysis
   - Structural analysis shall be performed to ensure the integrity of the marine structure.

5. Material Selection
   - Material selection shall be based upon the use of the facility defined in the project submission.

6. Miscellaneous Criteria
   - Miscellaneous criteria shall be considered in the design of marine structures.
Dock shall be designed for minimum current velocity of 1 feet per second (1 feet/sec).

(a) Residential Docks. In addition to the permanent embankment types noted above, residential docks shall be designed for fluctuating water levels of 0.5 feet MLLW to 1.5 feet MLLW, as well as the most severe environmental conditions.

(b) Structural steel shall conform to Standard Specifications for Structural Steel for Bridges and Buildings, AASHTO M186/M186M-09, and Section 4.1.8.3 of City Code 2017 for Load Combinations.

(c) For design of wood structures, the load duration factors in Table 2.3.2 of the latest edition of the California Building Code (2017) shall be used for design. For wind forces, defined in City Code 2017, Section 4.1.8.3.1, the calculation of wind forces shall be limited to 1,000 feet altitude.
CITY OF NEWPORT BEACH PUBLIC WORKS DEPARTMENT
WATERFRONT PROJECT GUIDELINES AND STANDARDS, HARBOR DESIGN CRITERIA COMMERCIAL & RESIDENTIAL FACILITIES

DESIGN CRITERIA / GENERAL NOTES

1. Introduction

a. Marginal, located seaward of any coastal structure such as a bulkhead or seawall, may be subject to the following guidelines:

b. "Fire Protection for Marinas, Wharves, and Piers" and the Figures as made part of the Waterfront Project Guidelines and Standards, shall be used as the basis for the design and construction of all structures.

c. This guide is intended to provide a framework for the planning, design, construction, and operation of marinas, wharves, and piers, and to ensure that all such facilities are constructed and maintained in a manner that is safe for the public, marina users, and the environment.

d. The guide is based on the latest recommendations of the National Fire Protection Association (NFPA) and the American Society of Civil Engineers (ASCE), and is consistent with the City of Newport Beach's policies and procedures for marina development.

2. Utilities

a. General

(i) All utility services in a floating dock system shall maintain clearance as outlined in the O.W.A. Design Criteria for Marinas and Piers.

(ii) All utility services in a floating dock system shall be provided with fire protection and lighting as required by the City of Newport Beach Department of Public Works.

(iii) All utility services in a floating dock system shall be provided with electrical service as required by the City of Newport Beach Department of Public Works.

(iv) All utility services in a floating dock system shall be provided with gas service as required by the City of Newport Beach Department of Public Works.

3. Commercial Facilities

a. All commercial dock installations shall be provided with a fire lighting system, consistent with the City of Newport Beach Department of Public Works, to provide adequate and safe illumination for the safe operation of marinas, wharves, and piers.

b. All electrical systems in a floating dock system shall be provided with a fire protection system, consistent with the City of Newport Beach Department of Public Works, to provide adequate and safe fire protection for the safe operation of marinas, wharves, and piers.

4. Seawalls

a. Seawalls shall be designed to resist all vertical and horizontal loads.

b. Seawalls shall be designed to resist all vertical and horizontal loads.

5. Lighting Systems

a. Lighting systems shall be designed to provide light for the floating walking and emergency gangways such that the system is protected from damage by boats.

b. Lighting systems shall be designed to provide light for the floating walking and emergency gangways such that the system is protected from damage by boats.

6. Fire Protection

a. Fire Protection shall be provided for all electrical systems, such as fire protection systems, to provide adequate and safe fire protection for the safe operation of marinas, wharves, and piers.

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