Additional Material Presented at Meeting
Staff Presentation - Multiple Vessel Mooring System
September 8, 2021 Harbor Commission Meeting

Multiple Vessel Mooring System –

Review and Approve Design Specification Program

Harbor Commission
September 8, 2021

Multiple Vessel Mooring System (MVMS)

- History of MVMS
- HC Subcommittee – Beer and Williams
- MVMS Program Updates
  - Harbor Design Criteria
  - NBMC update
  - Offshore Mooring Specifications

Harbor Design Criteria Updates

1. Permitted in single anchor mooring systems at this time.

2. Single-hulled vessels only (to minimize footprint).

3. Float dimensions:
   - 8-feet wide minimum
   - 20-foot or 40-foot long

4. Maximum vessel length = equal to or less than length of MVMS float (20 or 40-feet)
   - Vessels tied bow and stern

Harbor Design Criteria Updates (cont.)

5. Overall width = 25-feet
   - Vessel + 8-foot MVMS + Vessel

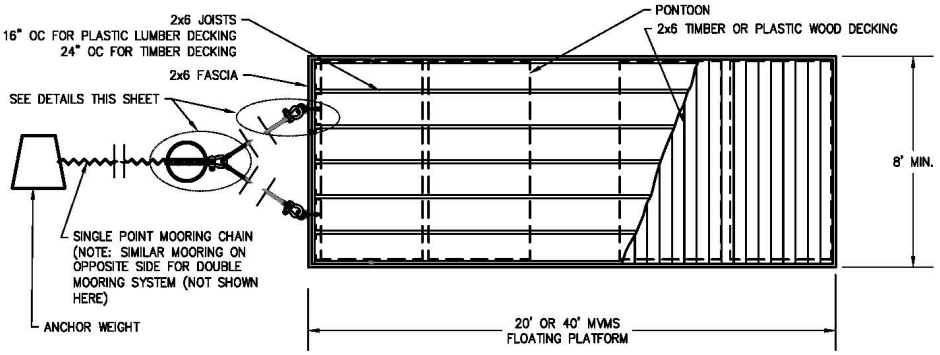
6. No extraneous equipment allowed except up to (2) dock boxes.

6. Sea lion deterrence required.

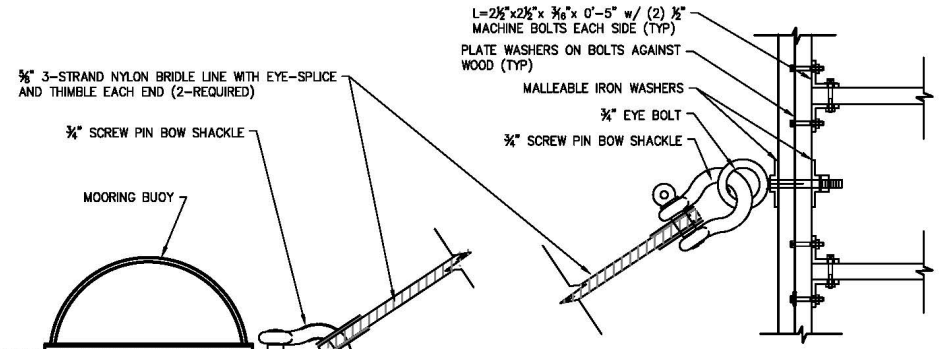
CITY OF NEWPORT BEACH
WATERFRONT PROJECT GUIDELINES AND STANDARDS

HARBOR DESIGN CRITERIA
COMMERCIAL & RESIDENTIAL FACILITIES

City Council Approved
March 23, 2021



MVMS MOORING CONNECTION DETAIL



MVMS BRIDLE CONNECTION DETAIL

MVMS MOORING CONNECTION DETAIL

NOTES:

1. TIMBER SHALL BE SELECT STRUCTURAL DOUGLAS FIR TREATED WITH PRESERVATIVE APPROVED BY THE STATE OF CALIFORNIA (CALIFORNIA COASTAL COMMISSION AND REGIONAL WATER QUALITY CONTROL BOARD).
2. FIELD CUTS AND BORED HOLES SHALL RECEIVE A BRUSH COAT OF PRESERVATIVE TREATMENT PER STATE AND FEDERAL GUIDELINES.
3. FASTENERS SHALL BE STAINLESS OR HOT-DIP GALVANIZED.
4. WALKING SURFACES SHALL HAVE A SKID RESISTANT FINISH, SUCH AS UNPAINTED TIMBER OR GRIT ON TIMBER, OR OTHER SURFACING DEEMED APPROPRIATE FOR THE INTENDED SERVICE, BY THE CITY.
5. NON-STRUCTURAL MEMBERS MAY BE ALTERNATIVE MATERIALS SUCH AS COMPOSITE DIMENSIONAL LUMBER. SUBMIT PRODUCT SPECIFICATIONS TO THE CITY FOR APPROVAL.
6. SEE HARBOR DESIGN CRITERIA FOR ADDITIONAL DESIGN REQUIREMENTS.

APP. _____
CITY ENGINEER RCE DATE

NO.	DATE	DESCRIPTION OF REVISIONS

CITY OF NEWPORT BEACH DEPARTMENT OF PUBLIC WORKS

DRAWN: T. FISCHETTI
DATE: 08/24/2021

MULTIPLE VESSEL MOORING SYSTEM

STANDARD DRAWING NO.
617
SHEET 1 OF 1

Newport Beach Municipal Code
Redline / Strikeout

Multiple Vessel Mooring System

17.01.030(J)(11)

11. Multiple Vessel Mooring System. The term "multiple vessel mooring system" shall mean a floating platform secured to a single or double anchor mooring system which allows multiple vessels to be secured that are equal to or shorter in overall length than the side of the platform to which the vessels are to be moored.

17.60.040(B)(1)(c)

c. Multiple Vessel Mooring System Program. The Harbor Department~~master~~ may approve a multiple vessel mooring system in the single anchor mooring areas of Newport Harbor. An application and applicable fee, established by resolution of the City Council, for a multiple vessel mooring system shall be submitted in writing to the Harbor Department~~master~~, who shall evaluate the application based upon standards established and the application shall be approved if the Harbor Department~~master~~ makes the findings under the applicable standards and those set forth in Section 17.05.140(D)(1).

City of Newport Beach
OFFSHORE MOORING SPECIFICATIONS
November 2017

1. All mooring weights must be metal.
2. All chain must be a minimum of Grade 30 Proof Coil steel chain. Chain size specifications must be adhered to regardless of chain grade. Top and bottom chain must be shackled together to form one continuous length. Material other than steel chain may be used only upon written approval of the City of Newport Beach ("City") Harbormaster or his or her designee (collectively, "Harbormaster").
3. All mooring buoys must be: (1) the "tube-style" type (tube down the center of the buoy) or of such type as approved by the Harbormaster; and (2) painted in compliance with State and Newport Beach Municipal Code requirements, displaying numbers assigned by the Harbormaster. Any existing "ring-style" type buoys in use as of the date above may continue to be used if a safety chain is attached to the vessel, independent of the buoy, to prevent the vessel from swinging during buoy failure.
4. Vessels must be moored fore and aft except in exposed areas designated as single point areas.
5. The required chain length will be determined by the Harbormaster and is governed by the depth of water in various mooring areas.
6. Sand-line moorings may be allowed upon written approval of the Harbormaster.
7. The length of any vessel attached to a mooring must be equal to or less than the City approved mooring length.
8. If a mooring fails (i.e., moves) due to insufficient weight, the mooring permittee shall immediately increase the mooring's weight by at least 20%.
9. Minimum mooring weight, chain size, and line requirements are as follows:

Mooring Length (feet)	Mooring Weight* (pounds)	Bottom Chain Size*(inches)	Top Chain Size*(inches)
20'	500	1/2"	1/2"
25'	650	1/2"	1/2"
30'	750	1/2"	1/2"
35' 20-foot MVMS	1,000	5/8"	1/2"
40'	1,500	5/8"	1/2"
45'	2,000	3/4"	1/2"
50'	2,000	3/4"	1/2"
55' 40-foot MVMS	2,500	3/4"	1/2"
60'	3,000	3/4"	1/2"
65'	3,000	1"	1/2"
70'	3,500	1"	5/8"
75'	3,500	1"	5/8"
80'	4,000	1"	3/4"
85'	4,500	1"	3/4"
90'	5,000	1"	3/4"
95'	5,000	1"	3/4"

* Weight and chain size shown in this table are minimums. Mooring permittee may adjust upward

Existing MVMS – Current Status

Newport Harbor Yacht Club

- (11) MVMS ranging from 17-feet to 57-feet
  - ~(4) moorings need an average of ~1,300 lbs. of added weight
  - ~(3) mooring need upgraded bottom chain

Balboa Yacht Club

- (4) MVMS ranging from 20-feet to 40-feet
  - Minimal weight and chain upgrades needed.

When shall compliance take effect?

Newport Harbor Yacht Club
(Not Current)

Balboa Yacht Club
(Not Current)

Comments/Questions

Your **Public Works Department**

Protecting and Providing Quality
Public Improvements and Services