CALIFORNIA COASTAL COMMISSION
CENTRAL COAST DISTRICT OFFICE
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SANTA CRUZ, CA 95060
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F10b

5-18-0976 (SILVERS)

MARCH 8, 2019

CORRESPONDENCE

P M A C O N S U L T I N G , I N C .
CONSULTING STRUCTURAL ENGINEERS
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February 13, 2019

Jacquelyn Chung
Director, Permits Division
Swift Slip Dock & Pier Builders, Inc.
6351 Industry Way
Westminster, CA 92683

RE: MINIMUM FINGERS WIDTHS

1601 East Bay Avenue; Location
City of Newport Beach, County of Orange

Dear Mrs. Chung,

PMA Consulting, Inc. is pleased to provide this letter regarding minimum finger widths required by the Harbor Design Criteria Guidelines and Standards of City of Newport Beach.

STATEMENT OF THE PREPARER'S QUALIFICATIONS

Plamen Petrov, P.E., the preparer of this report, holds a Master of Science in Structural Engineering from University of Architecture, Structural Engineering & Geodesy of Sofia, Bulgaria, and is a Licensed Civil Engineer by the State of California Certificate No. C66947. For the last 19 years of his professional career he has been actively involved in the design and entitlement of many Waterfront Developments such as custom homes, seawalls, piers, platforms, floating docks and marinas. A great number of Bulkhead Condition Reports and Coastal Hazards Analysis Reports prepared by him have been reviewed and accepted/approved by California Coastal Commission.

All the above being said, Plamen Petrov, P.E. shall be considered a qualified preparer for this letter.

To the best of my knowledge in this matter, the minimum finger widths required by the Harbor Design Criteria Guidelines and Standards of City of Newport Beach are based on accessibility requirements only. As noted in Footnote (1) under Table No.1 of the Guidelines and Standards, widths of more than what shown in Table No.1 may be necessary for specific site conditions. For this site the specific condition is the size of boats to be accommodated by the fingers. To be able to accommodate the large boats, the fingers eithers have to have a number of intermediate guide piles along their lengths, which increases the points of penetrations into the ocean bed, or they shall be significantly wider than the minimum required width. The width of the fingers is in direct correlation with their flexural capacity to resist lateral forces induces by the boats berthing on them, due to the Total Environmental Load which consists of Wind + Wave + Current Loads.

I my opinion it is prudent that the float fingers on this project be wider than the minimum required widths.

The above opinion was rendered based on experience in floating docks design, and within the inherent limitations of this study, in accordance with generally acceptable engineering principles and practices. We make no further warranty, either expressed or implied.

PMA Consulting, Inc. appreciates the opportunity to work with you towards the successful completion of your project. Should you have any questions regarding this report, please contact us.

Respectfully submitted,

Plamen Petrov, P.E.
Principal