

**COASTAL RESOURCES MANAGEMENT COUNCIL ASSENT CHECK LIST**

**Plans for Private Residential Recreational Boating Facilities**

- Plan size - must be 8 1/2" x 11".
- Number of Copies - must provide four.
- Title Block - each sheet must have a title block indicating title of plan, owner's name, street, town, designer, date, and scale.
- Plan preparation must be by a **registered professional engineer**, registered in the State of Rhode Island and have a signed RIRPE stamp.
- Is this a High Fetch Area – See High Fetch Requirements in 300.4.E.3

**Specifications Information to Include with the Plans for a Private Residential Recreational Boating**

**Facility - GENERAL**

- Indicate the RICRMP Water Use Type
- Provide information on the use of the proposed facility.
  - Provide the number of Boats/Vessels to be berthed at the facility.
  - Provide length of the vessel(s).
  - Provide draft of the vessel(s).
  - Which, if any, of the vessels will have marine toilets (MSD's).
  - Indicate whether or not the facility will be used to unload catches by commercial fishing vessels.
  - Indicate the location of the private residential dwelling to be served by the proposed facility. Is the dwelling on the same lot as the proposed boating facility.
  - Provide the proposed winter season storage location for all floats. Indicate the method of transportation and route to this storage location.

**Specifications Information to Include on Plans – STRUCTURAL**

- Design live load (pedestrian) for the pier – min 40 psf & 400 lb concentrated load
- Design live load (pedestrian) for the float(s) – min 40 psf & 400 lb concentrated load
- What size of vessel is the facility designed for. Is the facility designed to berth the vessel(s) in heavy weather? If not, where will vessel(s) be located.
- Pilings - min ASTM D25 Class A pile
  - depth of embedment – min 15 feet
  - method of embedment
  - tip diameter - min 9"
  - diameter - min 14"
  - type and amount of preservative treatment
  - statement by design engineer regarding the ability to embed the pilings.

## Page 2 – Dock/Pier Checklist

- Cut off elevation for float piles - min V zone elevation +1'
- Pile Caps
  - Dimensions
  - Type and amount of preservative treatment
- Stringers – min 3"x12"
  - Dimension
  - Type and amount of preservative treatment
- Decking
  - Dimension
  - Type and amount of preservative
- Method of treatment for structural hardware (such as hot-dip galvanized).
- Provide details, including attachment method, of all utilities proposed for the facility.
  - Water service
  - electricity
  - lighting
  - electric service
- Provide necessary details and specifications regarding construction access and construction methods. Include:
  - Show materials stockpiling areas, staging areas.
  - Information on water access to the site. Indicate low bridges or similar obstacles which may limit barge or pile driver access to the site.
  - Provide specific details of methods to be used in order to minimize damage to coastal features (coastal wetlands, coastal banks, buffer zones).

### **Site Plans for Private Residential Recreational Boating Facilities**

#### General Plan Requirements:

- Site Plan Scale: Use 1" = 10', 1" = 20', 1" = 30', or 1" = 40'
- Show the location of all coastal features and the location of the inland edges of the various coastal features present. (Examples of coastal features are seawalls, coastal banks, coastal cliffs or bluffs, beaches, coastal/ contiguous wetlands.)
- Locations of pertinent existing underground features such as: ISDS's, sanitary sewer lines, drainage pipes, water lines/wells, underground utilities, tanks, etc.

- Locations of pertinent surface features such as:
  - walls, seawalls, groins, jetties
  - piers, docks, boat ramps (locate these both on site and in vicinity - at least those on both abutting properties.
  - buildings
  - fences
  - driveways, parking areas
  - streams, drainage swales
  - edge of vegetated areas
  
- Mean High Water (MHW) line
- Mean Low Water (MLW) line
- Show any and all grade changes proposed:
  - existing and proposed elevation contours associated with upland access to the pier or any proposed dredging (see RICRMP 300.9).
  - indicate the reference datum plane
- Provide sufficient soundings along the length and adjacent to the proposed facility as well as seaward of the proposed dock. Soundings shall be 50’(min) in all directions with a density of not less than one every 20 ft\_.
- Soundings must be based on mean low water (MLW). The plan must detail the benchmark utilized to establish the datum utilized on the plan. In the absence of a benchmark, the “short term tide measurement” may be utilized (see <http://www.crmc.ri.gov>) for details.
- Contours shall be shown in addition to the soundings
- Show location of boat moorings, including swing area, or mooring areas.
- Show location of federal channel and/or anchorage area citing the authorized depth. If these are not immediately adjacent to the proposed facility, but are present in the vicinity, provide distance from the proposal.
- Indicate the proposed private residential recreational boating facility. Include the following:
  - fixed pier
  - float access ramp
  - float(s) (indicate dimensions)
  - tie-off pilings for floats and boat mooring
  - upland paths which access the facility
  - stairs/ramps which access the facility from the upland
  - any and all stairs, steps, pathways provided to maintain lateral access along the shoreline below the MHW line.
- Riparian boundary lines if these have been established by a court decision or by mutual agreement of abutters.
  - If these are not present, CRMC staff or CRMC may, upon further review, request additional information for the evaluation of possible navigation impacts and/or

- littoral/riparian concerns.
- Show extensions of property lines and distances of the proposed facility from them. (Note - These are not necessarily the riparian boundary lines.)
  - Show the distance from the proposed pier to the property line extension. If the distance is less than 25', a variance request and a letter of no objection is required.
  - Show locations of all large boulders and other potential hazards to navigation.
  - If the waterway is relatively narrow (approximately less than 500'), provide the distance across the waterway (MLW to MLW).
  - Show all pier/docks within 200' of the proposed facility.
  - If there are existing piers/docks or pilings on the site, indicate whether or not these will be removed.
  - Show the location of the private residential dwelling to be served by this facility. If the distance is too great to show on the plan, indicate its location and distance away.
  - Show any and all upland areas designated by CRMC as natural buffer zones.
  - Show stockpiling and materials storage areas, areas to be impacted with construction access.

### **Section Plan Requirements for Private Residential Recreational Boating Facilities**

#### **Complete Profile View –**

- Follow general plan requirements.
- Scale: Choose a scale which is present on a typical engineer's scale.
- Show elevation vs. distance along the entire length of the proposed facility from its uppermost end (including any associated stairs/access structures) to the outermost part of the facility (including floats and tie-off pilings).
- Provide a bottom survey along the length of the proposed facility. Provide the following:
  - depths at MLW
  - Type of sediment at surface
  - Type of sediment (estimate or provide and cite best available information) within 15' below bottom surface.
- Show the width of coastal/contiguous freshwater wetland to be crossed. Include:
  - Indicate the height of the wetland vegetation during the growing season.
  - The ground/bottom elevations of the wetland areas.

- Show the structural details of the proposed facility in lengthwise cross-section. Include the following:
  - Pier bents (note the spacing)
  - Pilings, including those for pier, floats, tie-off pilings.
  - Pile-caps (pier bent caps)
  - Stringers
  - Decking (Note the spacing between deck boards)
  - Float details (include any and all anchoring details)
  - Indicate the overall length of the facility in terms of distance seaward of the upper edge of a beach or the face of a seawall.
  - Railings (if proposed)
- Show the method of maintaining lateral shoreline access for the public below the MHW line. Show either:
  - a 5' minimum clearance to the bottom of pier (measured to stringers) from at the MHW line, or:
  - stairs over the structure.

### **Cross Section View**

Show details for all sections if there are any proposed variations in the dock sections

- Follow General Plan Requirements
- Scale: Choose a scale which is present on a typical engineer's scale.
- Provide typical pier bent cross section showing:
  - pilings
  - diameter and tip diameter
  - embedment depth
  - pile caps
  - stringers
  - decking, width of pier
  - bracing
  - typical connection details
  - railings (if proposed)
- Float details
  - include method of encapsulation/protection of floatation billets
  - include any and all details of methods of anchoring
- Typical support detail for any and all upland access structures (stairs, etc.)
- Include full structural details and construction methods for any and all non-typical designs (such as crib supports, connections to rock, etc.)