

**MUSKINGUM WATERSHED CONSERVANCY DISTRICT  
DOCKING SPECIFICATIONS  
January 22, 2016**

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## I. Mission and Introduction

The Muskingum Watershed Conservancy District (MWCD) is dedicated to conservation and recreation conducted in harmony with flood control in the area of Ohio drained by the Muskingum River and its tributaries. Funded from income generated by the stewardship of its lands and waters, the District strives to enhance the quality of life in the Muskingum Lakes Region and beyond.

Under Ohio Law, the Muskingum Watershed Conservancy District is responsible for conserving the waters of the District, operating its reservoirs, protecting and preserving its improvements, and prescribing the manner of building works into or along any reservoir. In addition, the Conservancy District is charged with promoting safe and reasonable use of its waters and providing for the fuller public use and enjoyment of its improvements and facilities for recreation and conservation.

This document is intended as a supplement to and is subject to the conditions specified in the MWCD Docking Policy, Docking Policy Guidelines, and MWCD Rules.

## II. Definitions

For the purpose of this document, the following definitions apply:

**Bank Docking** The act of situating a watercraft on the shoreline at or near the water's edge whereby either a portion of or the entire hull of the watercraft is resting on land above conservation pool.

**Boat Lift (Boat Hoist)** A device used to lift a watercraft from the water and secure it thereon above the water.

**Configuration** The relative arrangement of dock sections; the shape of the dock when all sections are in place.

**Conservation Pool** Conservation pool is a lake surface elevation which is maintained during the boating season, unless affected by the operation of the dam for flood control or by drought, which may raise or lower the lake surface above or below conservation pool. Conservation pool is measured in feet above sea level and varies from one lake to another. To determine if the lake surface elevation is above, at, or below conservation pool, please call the MWCD main office.

**Dock** The entire formation to which watercraft are secured while on the water, including ramp, landing, walkway and pier, all of which are combined into one unit.

**Dock Secure Anchor** A device imbedded into the ground which includes a tether attached to the dock to prevent it from floating away if dislodged from its supports. (*see illustration E*)

**Dock Shoreline Anchor** A structure anchored into the shoreline to which the pier, ramp or landing are attached to stabilize entrance onto the dock.

**Docking Agreement** An agreement between the MWCD and adjacent landowners whereby they may obtain docking privileges.

**Docking Facility** A dock, boat lift, rack, floating platform, or other in-lake structures intended to secure watercraft.

**Dry Dock Floating Platform** A floating platform intended to secure watercraft thereon.

**Finger (pier)** A part of a dock which is supported above and extends over the water from either the shoreline, landing or walkway, to which the watercraft is secured along its length and which is usually used for boarding alongside the watercraft.

**Fixed Dock** A dock which is securely fastened to its supports so that it is rigid at all times.

**Fixed/Floating Dock** 1) A dock which is rigidly supported from beneath by clamps or brackets fastened to the supports, but which also contains flotation and will float if the water level raises enough to lift the dock from its brackets. (2) A dock comprising fixed sections and floating sections.

**Floating Dock** A dock which is supported by flotation.

**Hand-Carry Watercraft** A non-motorized watercraft small enough to be picked up and carried to and from the Water with relative ease by one or two persons. Examples are: canoes, kayaks, sail boards and small sailboats.

**Individual Dock** Straight dock perpendicular to the shoreline; secures up to 4 watercraft.

**Landing** That portion of a dock which is used to traverse from shoreline to ramp, pier or walkway.

**Mooring** 1) An act of securing a watercraft with lines or anchors. 2) A place where or an object to which a watercraft can be secured; typically offshore. 3) Offshore mooring involves the placement of an approved anchoring device in the lake bottom to which an approved mooring buoy is tethered.

**Multiple dock (cluster dock)** One docking system for 4 or more watercraft involving various configurations.

**Pier** Same as "finger".

**Rack** A docking facility used to support manually or wind-powered watercraft, either wholly or partially above water or land. The watercraft is usually lifted or pulled out of the water and placed upon the rack.

1) **Single-support Rack:** Supports only one end of the watercraft.

2) **Double-support Rack:** Supports the watercraft fore and aft.

**Ramp** That portion of a dock used to traverse from the landing to the pier or walkway.

**Shore Zone** That water area of a uniform width of 300 feet lying parallel with and contiguous to the shoreline; except that as it pertains to those water areas marked by buoys, “shore zone” means that water area between the shoreline and buoys.

**Slip** A boat’s berth between two piers; a docking space.

**Spillway Elevation** Measured in feet above sea level, it is the elevation of the emergency spillway at the dam. Spillway elevation varies by reservoir and can be determined by contacting the MWCD main office.

**Supports** Typically metal pipe imbedded into the lake bottom at the sides of a dock to provide support for the dock.

**Walkway** That portion of a multiple dock which is traversed to access individual fingers and watercraft.

### III. Construction and Installation

All docking facilities or portions thereof that are to be installed on MWCD lands or waters must adhere to the requirements stated herein and shall comply with all applicable federal, state, county, municipal, and other laws, ordinances, and regulations wherein the premises are located.

#### A. Design

##### 1. General Requirements

- a) Roofs or covers are not permitted on docking facilities. However, boat lift covers maybe permissible with MWCD approval and issuance of an MWCD construction permit prior to installation under the following guidelines:
  - 1) The boat lift cover must be an accessory to an approved boat lift. Free-standing covers are not permitted. *(See Illustration Page 19)*
  - 2) The boat lift cover and supporting framework must be sourced from a commercial manufacturer.
  - 3) Submission of the boat lift cover manufacturer, model number and canopy color is required and subject to MWCD approval.
  - 4) Maximum vertical side curtain length is 30 inches. Full enclosures are not permitted.
  - 5) Placement considerations: All boat lift requests are subject to an onsite evaluation of possible conflicts with adjacent users; when determined that a possible view shed conflict may exist, the impacted users will be polled for

agreement/objection to the lift cover placement within their direct view shed; if MWCD denies installation of a boat lift cover due to view shed conflict, the requestor has the option to relocate their dock and lift to a more suitable location.

- b) Concrete shoreline anchors are prohibited except as permitted by the MWCD.
  - c) Docks may be of the fixed type, the floating type or the fixed-floating type.
  - d) Docking facilities shall be designed to be readily removable.
  - e) No wood is allowed in direct contact with water at conservation (summer) pool elevation.
  - f) No portion of a docking facility shall be tethered to any trees or vegetation.
  - g) Docking facilities shall be of an approved color.
  - h) It is the responsibility of the dock owner to comply with any requirements and/or regulations of the Americans With Disabilities Act or other laws or agencies exercising jurisdiction over the owner's docking facilities.
2. Dock Configuration Requirements
- a) Private clubs, youth camps and docking associations are required to use multiple docks. Individual docks may be permitted as courtesy docks or in remote areas separated by long distances or extreme terrain.
  - b) Cottage site lessees or seasonal campers from separate lots who share the docking of 4 or more watercraft may use multiple docks. For single lessee lots, single seasonal campgrounds lots or private dock licensees, individual docks may be used.
  - c) Individual docks are to be installed perpendicular to the shoreline. A variance from perpendicular may be granted upon written request to the MWCD if space limitations or local conditions render a perpendicular installation impractical.
3. Dock Dimension Requirements
- a) Dock length, which may depend on factors such as water depth and size of watercraft, is subject to MWCD approval.
  - b) Width of dock sections is 3 feet minimum to 6 feet maximum. Service docks at public marinas or MWCD facilities may be permitted to be larger, depending on need.

Dimensions are to the edge of dock structural frames and do not include rub rails or bumpers.

- c) If sections of varying widths are used on individual docks, the maximum width (6 feet) incorporates all sections along the dock's length. (*See illustration I*)
  - d) The maximum slip width on multiple docks with 2 watercraft per slip shall be 30 feet. If intermittent piers are used so that there is only 1 watercraft per slip, then the 30-foot maximum applies to the distance between facing edges of every other pier. (*See illustration H*)
4. Dock Appurtenances
- a) Handrails, bumper strips and rub rails are optional.
  - b) Dock secure anchors, if used, will consist of metal cable or chain, firmly attached to the dock and to an anchoring device. The anchoring device shall be flush with the ground and located in the lake bottom adjacent to the dock or on the shoreline within one foot of the water at conservation (summer) pool elevation. Anchoring devices in locations that could interfere with boat traffic are not permitted. (*See illustration E*)
  - c) Storage lockers or "dock boxes" shall not exceed one locker per watercraft owner on multiple docks or one locker per dock on individual docks. Lockers shall not exceed 72 inches long x 30 inches wide x 30 inches high.
  - d) Benches or seats are permitted so long as permanently attached to the dock and stable. The seat back height shall not exceed 40 inches.
  - e) Additional permitted dock appurtenances include cleats and other watercraft securing apparatus, low-intensity solar powered lights, metal safety ladders, skid resistant treads, green or brown outdoor carpet, and steps for use as an aid in boarding watercraft. No other appurtenances are permitted without prior MWCD approval.
  - f) Diving boards, sliding boards and other similar items intended to facilitate the entering of the water are prohibited.

#### B. Submission of Plans and Construction Permits

1. It is necessary to submit plans (retain a copy for your records) and obtain a construction permit for the following (a through e):
  - a) Placement of Initial Docking Facilities
    - Adding a docking facility to the shoreline
    - Adding portions to a current docking facility

b) Altered Replacement Docking Facilities

- Replacing entirely a current docking facility with one of differing size or type of construction.
- Replacing a portion of a current docking facility with one of differing size or type of construction.

**NOTE:** Prior to the placement of initial or altered replacement docking facilities, persons shall apply to the MWCD in writing for approval. Installations other than in accordance with submitted information may be required to be removed at lessee's expense. Upon approval, a construction permit will be issued. There may be a permit fee. **Dry dock floating platforms** will be issued a conditional construction permit, stating that they will be allowed to remain only so long as they are used for their intended purpose and are in compliance with dimension requirements specified in *Illustration J*.

**PLANS MUST ACCOMPANY THE APPLICATION AS FOLLOWS:**

- Drawings shall be no larger than 11 inches x 17 inches per sheet. Use as many sheets as is necessary.
- Hand-drawn plans shall include top and side profiles showing overall dimensions of the entire docking facility, placement of flotation (if used) and supports, the docking facility's relation to the shoreline as installed, and the distance to adjacent docking facilities if they are closer than 50 feet. A description of structural framework, decking, flotation and supports must be included. Please include daytime phone number.
- Manufacturer drawing shall accurately depict all dimensions, material, flotation and supports for the entire docking facility. A top view drawing shall be included to show the docking facility's relation to the shoreline and overall dimensions and the distance to adjacent docking facilities if they are closer than 50 feet. Please include daytime phone number.

c) Changing the configuration (shape) of a dock.

**NOTE:** prior to changing a dock's configuration, persons shall apply to the MWCD in writing and shall include top view drawings of the dock's current configuration and the proposed configuration and relation to the shoreline, showing overall dimensions. Upon approval, a construction permit will be issued. There is no fee.

d) Returning a docking facility to the lake which was initially approved and installed, then removed, and has not been installed for two or more consecutive seasons.

**NOTE:** Prior to returning a docking facility to the lake, persons shall apply to the MWCD in writing indication this is a reinstall, and shall include a top view drawing of the docking facility and its relation to the shoreline, showing overall dimensions. Upon approval, a construction permit will be issued. There is no fee.

- e) Installation of a mooring.

**NOTE:** Prior to installing a mooring, persons shall apply to the MWCD in writing and shall include a description of the entire mooring installation as well as a location drawing indicating distances from nearby docks or other facilities. Upon approval, a construction permit will be issued. There is no fee.

- 2. Maintenance – A construction permit is not required for any maintenance that does not change the size, location, construction materials or design of an approved docking facility. If a user is notified that their docking facility is not in conformance with MWCD dock specs, a permit may be required for the changes necessary to bring it into conformance. If the size, location, construction materials or design of a docking facility are changed, a permit is required.

Docking facilities must be maintained in good condition. A dock in disrepair (broken, missing, or loose boards, for example), or not properly installed (leaning, portions missing, etc.) is subject to impoundment at the dock owner's expense.

It is not necessary to submit plans nor obtain a construction permit for the following (a through d):

- a) Painting, staining or wood preservative application

**NOTE:** colors shall be acceptable to the MWCD. Application is prohibited unless the docking facility is removed from the lake or unless during lake draw down when the lake bottom is exposed beneath the docking facility and drop cloths are used.

- b) Repairing damaged or deteriorated portions with material identical to those originally approved.
- c) Replacement of entire docking facility or portions thereof, when the replacement is identical in size, design and construction material to the previously approved docking facility, **except when commercial drums are involved.**
- d) Attachment of the appurtenances specified herein.

### C. Products and Material

- 1. A list of manufacturers of docking facilities suitable for installation in MWCD lakes is available from the MWCD main office.
- 2. For flotation, use of expanded polystyrene foam encased in high-density polyethylene drums is recommended. Expose polystyrene or foam-filled containers may also be permitted.
- 3. **Plastic commercial drums** may be permissible for flotation only if previously unused, or if used, they must have contained only food products for human consumption. They must be cleaned, rinsed and sealed prior to installation. The dock owner must include with the permit request, information from the drum's supplier stating the number of drums acquired, and



the material the drums previously contained. It is advisable to keep a record of that information, since drums lacking such information may not be used, even if previously used for flotation.

4. Metal drums are not permitted unless manufactured specifically for dock flotation.
5. Metal components, screws, nuts and bolts should be galvanized or of other rust-resisting material.
6. All wood material shall be seasoned dimension stock lumber, either pressure or surface treated with a standard wood preservative.
7. Dock supports must be readily removable. Wood supports are not permitted on docks or other in-water installations.

#### D. Identification

1. All docks in MWCD campgrounds and leased residential areas shall display their lot number on the dock or dock support.
2. All docks for docking associations, private clubs and youth camps shall display the name of the organization. Prior approval of wording is required.
3. All docks for Atwood Resort shall display "Atwood Resort" thereon.
4. All docks through a private dock agreement shall display the letters "PR" and numbers assigned by MWCD thereon.
5. If there are racks or boat lifts without a dock, they shall display the appropriate identification as specified in 1 through 4 above.
6. Numbers and letters shall be of a color which dramatically contrasts with their background, and be no less than 3 inches in height and spaced no less than 1 inch apart. They shall be arranged horizontally, are to read from left to right, and shall be located on a vertical surface at the seaward end of the dock, facing open water, clearly visible and not obscured by watercraft, dock attachments or appurtenances. They may be neatly painted or applied with decals directly onto the dock or a wood or rigid metal or plastic sign. Minimum size for signs is 4 ½ inches in height and 6 inches in width.
7. Offshore mooring buoys shall bear a waterproof tag identifying the owner's lot number or organization. Letters and numbers shall be black on a white background and be no less the ¼ inch in height. The tag may be fastened directly to the buoy or with a wire through a hole in one end of the tag.
8. "Private Dock" and similar wording is permitted. Wording is subject to MWCD approval and may be painted directly onto the dock or if on a sign, the sign must be attached directly to the dock or dock supports.

## E. Location and Placement Requirements

Location of all docking is subject to MWCD approval prior to construction or installation with the provision that suitable locations can be designated by the MWCD.

### 1. During Boating Season

- a) Unless multiple docking is required, cottage site lessees may select their individual dock locations. Upon viewing an available site, the lessee must contact the MWCD and the owners of adjacent docks, and the representative of any adjacent beach or other facility, to determine that the site is not in conflict with other use. In the event there is raised an objection to the site, the new dock lessee shall inform the MWCD. The MWCD reserves the right to designate each dock site as it deems necessary.
- b) In individual dock areas, the minimum distance between facing edges of a new dock location and adjacent docks is 25 feet (or 12.5 feet lateral water surface per dock) if someone is selecting a new dock location, there must be at least 50 feet of space, plus room for up to a 6 foot wide dock, for a total of 56 feet between the closest facing edges of adjacent docks, in order to place a dock between. In the event a dock is removed from the lake, and not installed for the following boating season, its user has effectively abandoned that location, unless a seasonal extension is granted in writing by the MWCD for circumstances such as illness or property for sale. Without an extension, the dock may not be reinstalled in that former location unless it meets these minimum space requirements. If someone wants to increase their dock's width (6 foot max.), or add a boat lift or similar docking facility, they may do so only if the minimum space requirements are not conflicted.
- c) In MWCD residential lease areas, only lessee boat docks are permitted.
- d) On all lakes, dock locations for persons docking through a Docking Agreement are restricted to the shoreline adjacent to their properties.
- e) The Park Superintendent or Campground Manager designates the location of docking in MWCD operated campgrounds.
- f) Racks on land within 100 feet of the water may be permitted for hand-carry watercraft in multiple dock areas, depending on the number of watercraft.
- g) Racks are permitted within lease boundaries in compliance with MWCD construction requirements. A construction permit is required.
- h) When the lake surface is at conservation pool, racks for individual dock sites shall be situated in the water with no portion on land above conservation pool. If the owner has an individual dock, racks shall be placed alongside and adjacent thereto, and shall be aligned so that the watercraft enters the rack parallel to the pier.

- i) When the lake surface is at conservation pool, boat lifts shall be situated in the water with no portion on land above conservation pool. If the owner has an individual dock, boat lifts shall be placed alongside and adjacent thereto and shall be aligned so that the watercraft enters the lift parallel to the pier.
- j) Upon written request by the owner of a watercraft, the MWCD may grant permission for off-shore mooring. Offshore moorings are prohibited outside the shore zone and in any areas which interferes with access to docking facilities, speed zones or water ski zones.

## 2. Winter Storage

In MWCD campgrounds it is required that docking facilities be removed from the lake upon expiration of the camping permit and either stored on the camp lot if above spillway, or elsewhere above spillway, or removed from MWCD land. In other areas, due to the fact that MWCD lakes were constructed for flood control and are therefore subject to fluctuations in lake elevation, the MWCD recommends that all portions of docking facilities and in-water racks be removed from the lake from November 1 through March 31. Docking facilities may be stored on the shoreline adjacent to the dock site, above spillway elevation if possible, from October 1 to May 1.

If the owner chooses to leave the docking facility below spillway elevation they do so at their own risk. If a docking facility is left in the lake for winter storage, either it will be left secured to its supports and anchors or it will be tethered in a fashion approved by the MWCD so that it does not float away.

## F. Usage Requirements

1. It is necessary for a docking facility to be used and maintained seasonally in order to remain.
  - a) For individual docking facilities, minimum usage constitutes the holding of one valid docking decal. If minimum usage is not met, all portions of the docking facility shall be removed, by the owner(s), to private or leased land.
  - b) For multiple docks, minimum usage constitutes the holding of enough valid docking decals to account for fifty percent (50%) of the dock's boat capacity. If minimum usage is not met, the dock shall be downsized by the owner(s) to a point that it is met.
2. Once a docking facility is installed, the owner may claim that dock site so long as the dock is placed, used, and maintained at that site seasonally. If the site is not used seasonally, the owner relinquishes any claim to the dock site and it becomes available to others. Upon written request by the owner, season extensions may be granted at MWCD discretion for circumstances such as illness or property for sale.

## G. Electrical and Lighting

1. No electrical service other than described in paragraph 2 (directly below) is permitted on any docking facility other than at commercial concession marinas or MWCD operated facilities. Electrical installations on docking facilities must conform to the National Electric Code and all state and local codes and regulations and necessary permits must be obtained. For commercial concession marina installations, except MWCD operated facilities, a statement disclaiming MWCD liability for the installation must be provided to the MWCD along with copies of all plans, permits and correspondence prior to energizing the system.
2. For temporary needs, extension cords may be used for maintenance or repairs of docking facilities or watercraft. The MWCD recommends these extension cords be plugged into a properly installed ground-fault interrupter receptacle and used in compliance with the Ohio Administrative Code. Cords must be removed when not in use.
3. Electrical service for security lighting and convenience outlets is permitted on the shoreline within 15 feet of the dock (or an approved distance) and must be installed in accordance with MWCD Guidelines For The Installation of Electric Lines and Lighting on MWCD Land to Serve Dock Sites. A copy of this document is available upon request.
4. No overhead lines shall be present in any docking area that could present a hazard to watercraft.

#### **IV. Watercraft Placement Requirements**

- A. Except for the following, all watercraft must be secured to an approved docking facility.
  1. In Cottage site lessee and Docking Agreement areas, canoes may be stored inverted on the ground within 30 feet of the water and visible from the water. Canoes may be tethered to trees with rope, chain or cable by wrapping loosely around the trunk. "Loosely" means an adult can easily slip a hand between the tether and the tree trunk.
  2. For offshore mooring, the watercraft is tethered to a mooring buoy with bow line. Either there shall be adequate room for the watercraft to swing 360° while moored without interfering with other watercraft or docking facilities, or provision shall be made in a fashion approved by the MWCD to secure the stern of the watercraft as well.
  3. Bank docking of rental craft at marinas is permitted in shoreline areas suitably stabilized per MWCD approval.
  4. In MWCD or marina campgrounds, persons with a valid camping permit may bank dock watercraft only in shoreline areas suitably stabilized per MWCD approval.

5. Watercraft may be stored within the boundaries of a lessee's premises subject to the conditions of the lease. Watercrafts stored within private club leased premises are subject to Procedures For Administration of Dry Storage Decals. A copy is available upon request.

## B. General Requirements

1. When secured to a dock, with the lake at conservation pool, a watercraft shall be afloat with no portion on the bank.
2. When secured to a single-support rack, the end of the watercraft not supported by the rack shall be resting on land above conservation pool.
3. When secured to a double-support rack, no portion of the watercraft shall be situated on land.
4. Except for canoes described in IV. A.1. above, watercraft shall not be tethered to any trees or anchors on the shoreline unless for temporary or emergency situations.
5. Other than for boarding or exiting watercraft, or for emergency purposes, no watercraft may be secured alongside dry dock floating platforms, racks or boat lifts.
6. Watercraft for which a dry dock floating platform has been approved and installed must be secured atop the platform when on the lake and not in use.

## V. Violations

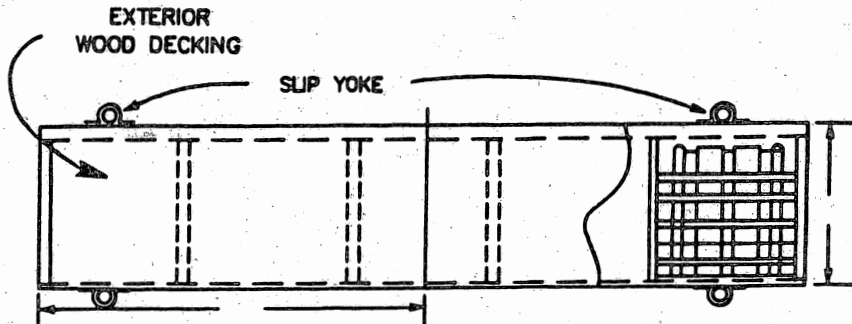
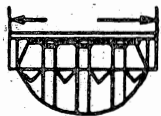
- A. Procedures for dealing with watercraft or docking facilities which do not comply with the specifications contained herein are as follows:
  1. Violation tags are issued to MWCD agents conducting dock and watercraft inspections. The tags are fastened to the watercraft or docking facility in non-compliance. On the tag, the agent will specify the date, location, and violation. Additional information may be written on the reverse side. On the tag, "location" will be the name of the leased residential area and dock number, or name of the docking association, private club or youth camp, campground (lot number if possible), marina (dock number if possible) or other area.
  2. The MWCD agent will notify the MWCD main office of violations.
  3. Failure to resolve any infraction could result in watercraft and/or docking facility impoundment and/or owner citation.

- B. Docking decals may be withheld for violation of MWCD rules or regulations, terms of leases, and docking agreements.

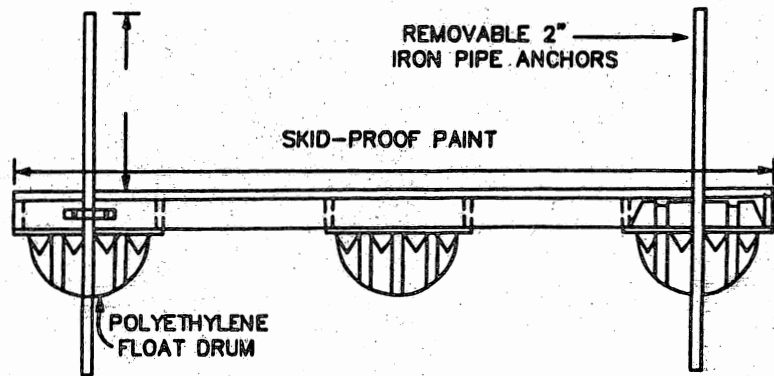
**VI. Illustrations Follow**

A

DRUM SPECIFICATIONS



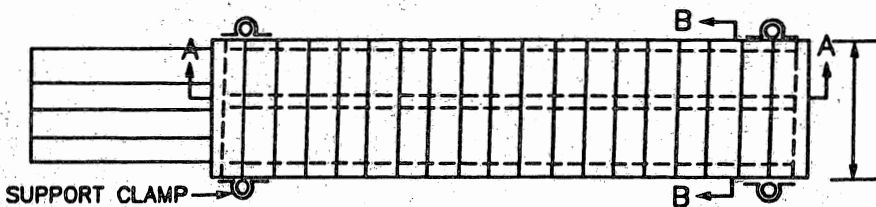
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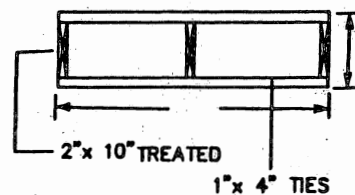
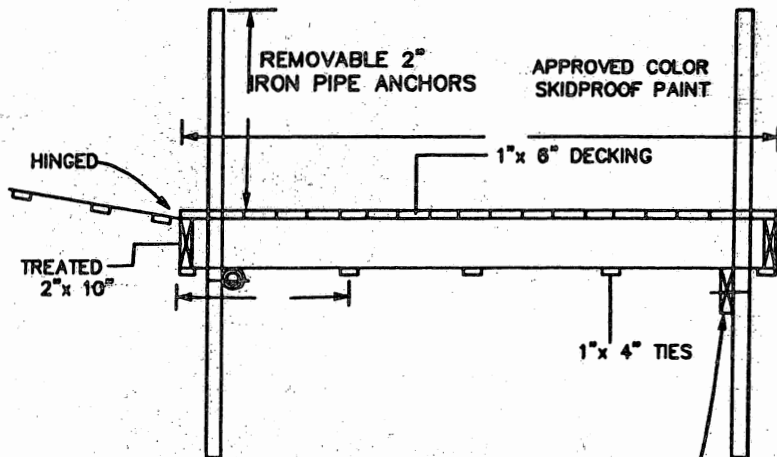
**SAMPLE PLAN  
FOR FLOATING  
BOAT DOCK  
POLYETHYLENE DRUM FLOTATION**

**\*\* MINIMUM WIDTH 3', MAXIMUM WIDTH 6'**

B



B



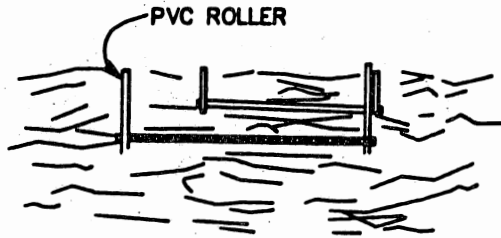
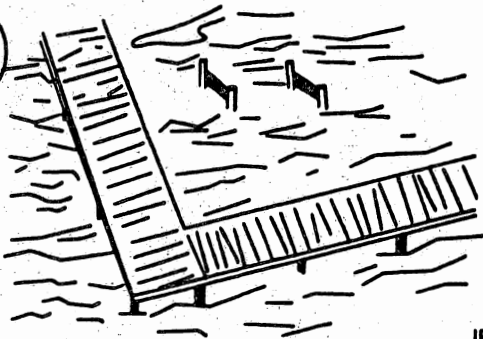
SECTION A-A

SECTION B-B

**SAMPLE PLAN  
FOR FIXED  
BOAT DOCK**

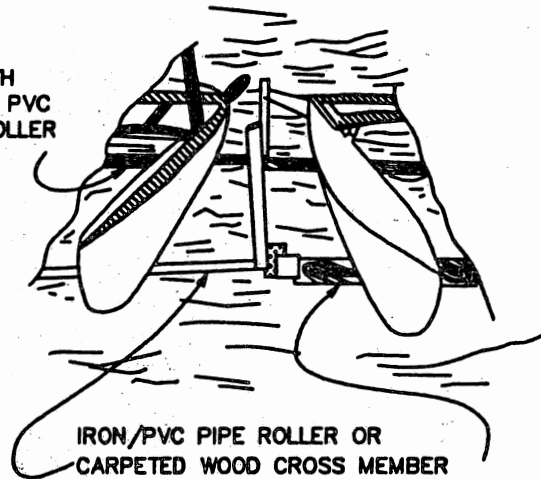
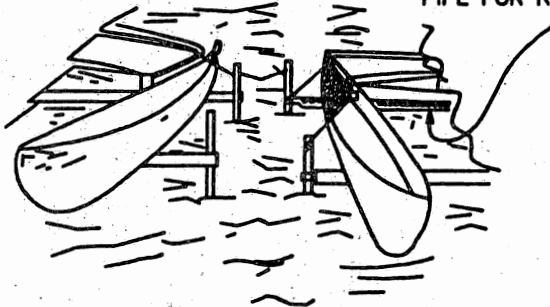
LATERAL  
SUPPORTS  
(WOOD, PIPE, OTHER)

C



C

IRON PIPE WITH  
LARGER DIAMETER PVC  
PIPE FOR REAR ROLLER

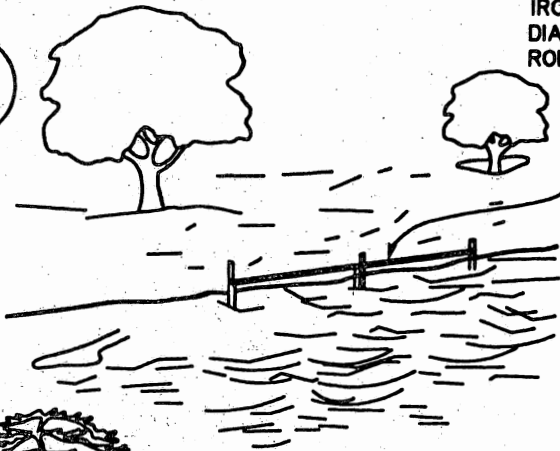


-BOATS ARE LIFTED ON TO REAR  
ROLLER AND PULLED TO REST  
ON FRONT SUPPORT

IRON/PVC PIPE ROLLER OR  
CARPETED WOOD CROSS MEMBER  
FOR FRONT

-DOUBLE SUPPORT RACK-  
IN WATER STORAGE FOR MANUAL OR WIND-POWERED WATERCRAFT  
WATER/LAND RACK STORAGE FOR MANUAL OR WIND-POWERED WATERCRAFT  
-RACK SITUATED IN WATER-  
-SINGLE SUPPORT RACK-

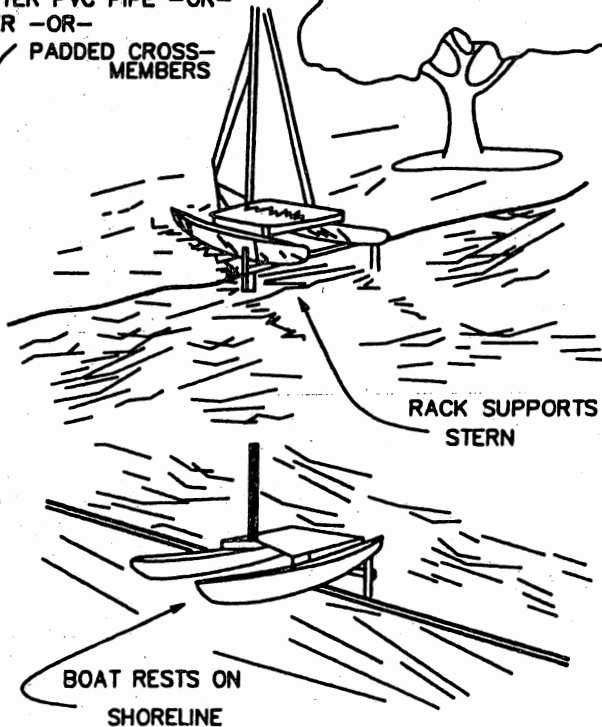
D



TYPICALLY  
IRON PIPE WITH LARGER  
DIAMETER PVC PIPE -OR-  
ROLLER -OR-  
PADDED CROSS-  
MEMBERS



D

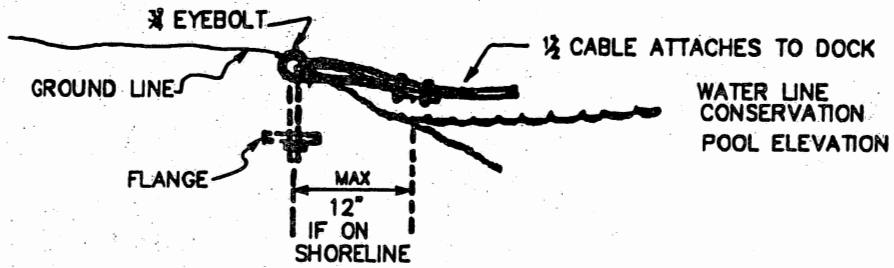


RACK SUPPORTS  
STERN

BOAT RESTS ON  
SHORELINE



E

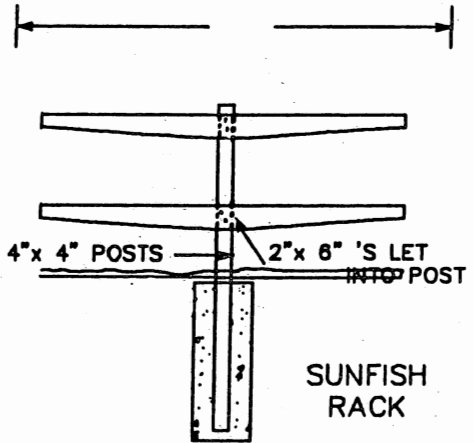
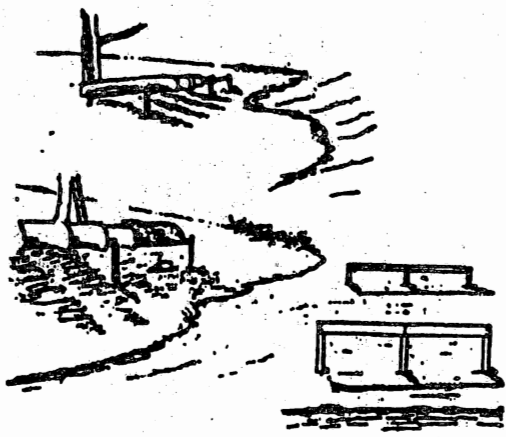


**DOCK SECURE ANCHOR EXAMPLE**  
 VARYING DESIGNS MAY BE PERMITTED

E

F

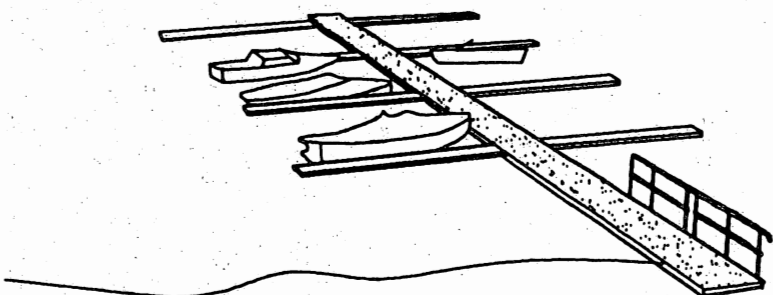
**SHORELINE STORAGE FOR SEVERAL HAND/  
 WIND-POWERED SMALLCRAFT  
 IN CLUSTER DOCK AREAS**  
 DIMENSIONS AND MATERIALS  
 \*VARY ACCORDING TO NEED\*



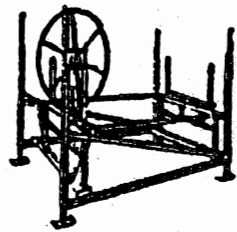
F

G

**A TYPICAL MULTIPLE DOCK**



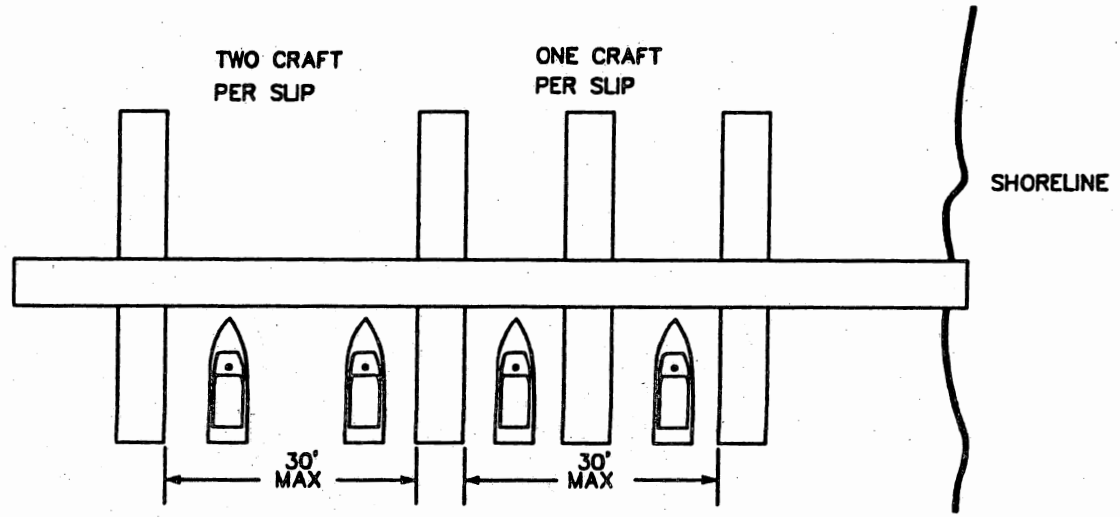
**TYPICAL BOAT HOIST**



G

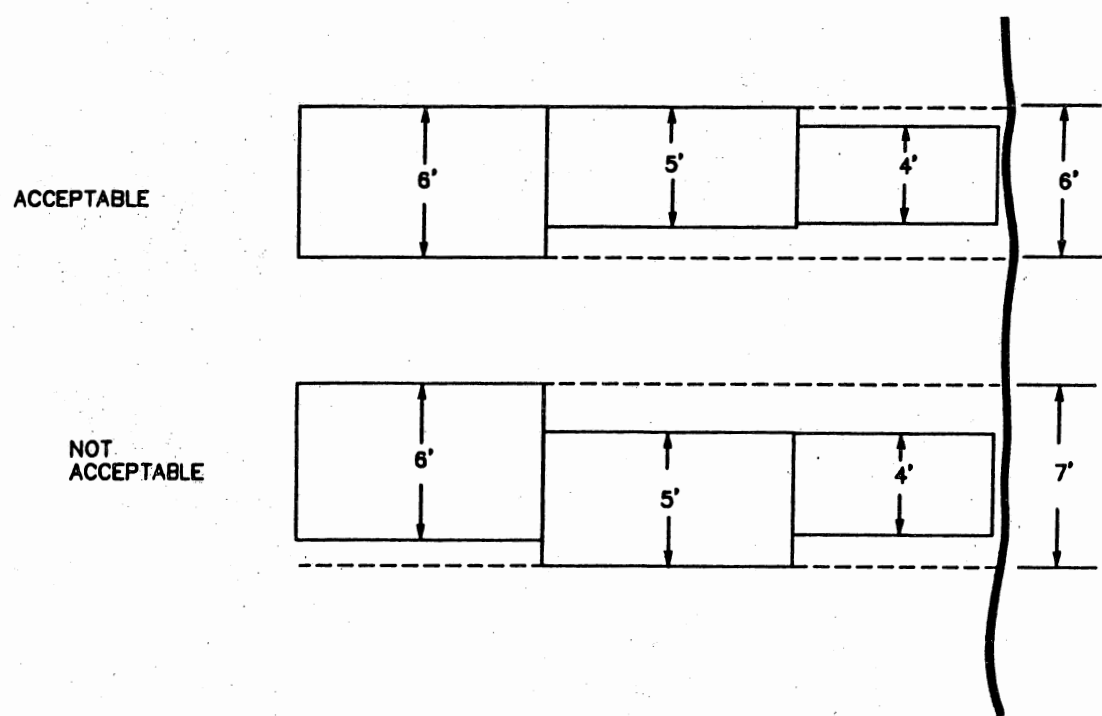
H

H



I

I

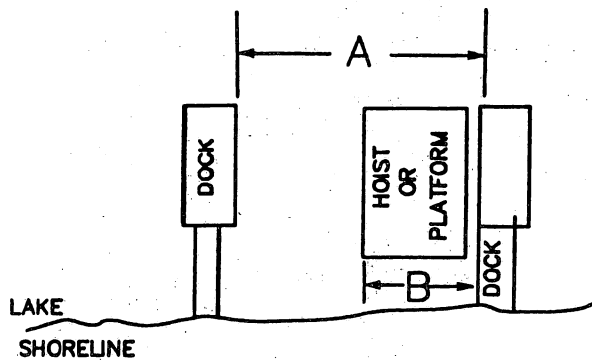


ILLUSTRATION

WATERCRAFT HOIST AND DRY DOCK FLOATING PLATFORM  
DIMENSION REQUIREMENTS  
INDIVIDUAL DOCK AREAS

J1

PLACEMENT OF HOISTS AND PLATFORMS  
ADJACENT TO APPROVED DOCK

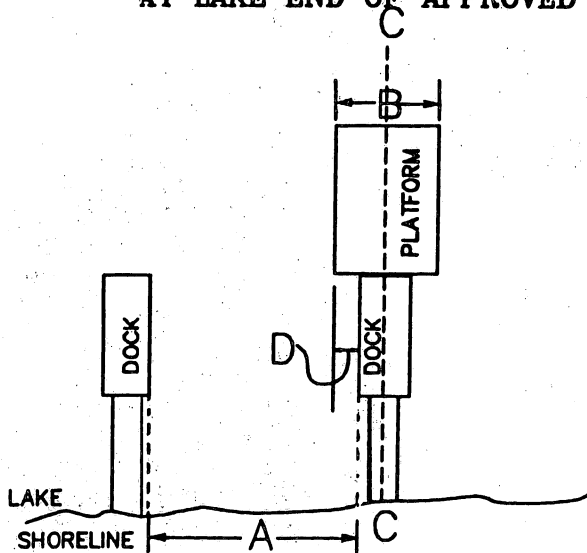


THE MAX WIDTH OF "B" IS  
THE SMALLEST  
OF 1, 2, OR 3 BELOW:

- 1) 12' (TWELVE FEET)
- 2) WATERCRAFT BEAM + 24" (FOR  
ADDITIONAL WATERCRAFT, AD THEIR  
BEAM + AN ADDITIONAL 12")
- 3)  $\frac{1}{2} A - 6"$  (ONE-HALF "A" MINUS SIX INCHES)

J2

PLACEMENT OF PLATFORMS ONLY  
AT LAKE END OF APPROVED DOCK



THE MAX WIDTH OF "B" IS  
THE SMALLEST  
OF 1 OR 2 BELOW:

- 1) 10' FROM CENTER OF DOCK ("C")
- 2) WATERCRAFT BEAM + 24" (FOR  
ADDITIONAL WATERCRAFT, AD THEIR  
BEAM + AN ADDITIONAL 12")

\*\*NOTE: "D" MAY NOT EXCEED

$\frac{1}{2} A - 6"$  (ONE-HALF "A" MINUS SIX INCHES)

## BOAT LIFT COVER REQUIREMENTS

