



Town of Mount Desert

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ADDENDUM #2

MOUNT DESERT FLOAT PROJECT

NOTE: Replace the original FLOAT BID SPECIFICATIONS with the document below. New additions concerning the treatment of the wood now include **CCA or equivalent MCA Treatment will be accepted**

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FLOAT BID SPECIFICATIONS

Northeast Harbor Floats/Material Project

GENERAL REQUIREMENTS

Background

The Town of Mount Desert is the recipient of Small Harbor Improvement Program (SHIP) Funding provided by the State of Maine Department of Transportation for Town Floats Project.

B. General Information

1. The contract will be awarded to the lowest, responsive, responsible bidder.
2. Floats/Material must be delivered by April 15, 2013
3. Deliver to 18 Harbor Drive – Northeast Harbor, Maine 04662
4. The Town of Mount Desert reserves the right to reject any or all bids.

II. FLOAT SPECIFICATIONS FOR (1) 20' x 20' FLOAT

The Town is seeking bids for the following (1) Float:

1. FLOATATION:

- a. Float drums shall be ACE Roto-Mold Heavy duty Premier polyethylene; foam filled drums as distributed by Custom Float Services, Portland, ME (207) 772-3796, or approved equal. All float tubs will be foam filled with an EPS core (expanded polystyrene) and have a minimum polyethylene wall thickness of 3/16"



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- b. Float tubs shall have a minimum of 15 year warranty
 - c. Design float drums to support the dead-load and maintain an approximate freeboard of 21"-22". Provide reserve live load buoyancy of approximately 30 lbs/square ft.
 - d. Each float tub shall be through-bolted to the underside of the float frame with ½" hot dipped galvanized carriage bolts, as instructed by the mfr. At least two outside edges of every float tub shall be fully bearing on the support framing.
2. **FRAMING:** Wood shall be Southern Yellow Pine, Grade 2 or better, and shall be S4S, pressure treated per AWP standards, unless otherwise noted. *CCA or equivalent MCA Treatment will be accepted*
- a. All main framing and joists over float tubs shall be 4x8 treated with 1.0 lbs/cubic ft CCA *or equivalent MCA*
 - b. Intermediate joists to be 2 x 8 treated with 1.0 lbs/cubic ft CCA *or equivalent MCA* with maximum spacing of 18"
 - c. Outside skirtboards shall be #1 grade 2 x 10 treated with 1.0 lbs/cubic ft CCA *or equivalent MCA*.
 - d. All framing members shall be full length, no splices are allowed
3. **DECKING:** Decking shall be #1 grade 2 x 6 Southern Yellow Pine, pressure treated to 0.25 lbs/cubic ft ACQ (*CCA or equivalent MCA Treatment will be accepted*), fastened with #10 x 3" 316 grade stainless steel square drive decking screws, 3 screws per joist. Decking may be butt spliced over intermediate stiffeners, but splices shall be staggered so that no more than one out of four planks shall be spliced over the same intermediate joist, for any location on the float.
4. All wood shall be S4S unless otherwise noted.
5. **HARDWARE:**
- a. Steel parts shall be ASTM A 36 or A992, hot dipped galvanized after fabrication.
 - b. Reinforce all inside and outside corners, joint to rim joist connections, and corner post and skid support post connections, with galvanized steel plate connectors, as available through Custom Float Services or approved equal.
 - c. All inside corners, and internal joist stiffeners shall be ¼" thick hot dipped galvanized and through-bolted to frame and skirt boards with ½" diameter hot-dipped galvanized carriage bolts.
 - d. All outside connecting hardware shall be 3/8" thick 2 and 3 tab corners with 1" x 5 ½" SS connecting bolt with nylock nut.
 - e. Connect adjacent floats with corner to corner outside connecting hardware and one intermediate float-to-float connector, midway between the corner connectors.
6. **FASTENERS:** All fasteners will be hot dipped galvanized or 316 grade stainless steel.



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7. **BOTTOMSKIDS:** Each row of flotation will have a 4 x8 pressure treated bottom skid attached with pt uprights and galvanized hardware. Skid planks and non-exposed members shall be treated to 2.50 lbs/cubic ft CCA *or equivalent MCA*, and may be rough sawn.
8. **MOORING ANCHOR CHAIN PLATES:** Each float corner shall have a ½” thick hot-dipped galvanized chain grab plate capable of holding a 5/8” galvanized mooring chain. All connecting hardware will be ½” hot-dipped galvanized carriage bolts with nylock nuts. Locate chain grabs to be accessible from the exterior but not extend past the face of the skirtboards.
9. **CLEATS:** Cleats shall be forged steel, galvanized, with recessed hexagonal bolt heads on top surface. (2) 12” hot-dipped galvanized ship cleats with internal back-up hardware will be provided on each working side of every 20 section, spaced evenly between corners. Cleats shall be fastened with bolts centered through the 4x8 edge joist and located in the spaces between the float drums.
10. **SUBMITTALS:**
 - a. Submit shop drawings for the Owners approval before fabrication of the dock system.
 - b. Shop drawings submitted shall include all information necessary for fabrication and erection of the component parts of the structure. They shall indicate type and size of members, and type and location of all hardware, including location of cleats and other attachment hardware.
 - c. Submit material delivery slips, pressure treatment tags and other proof to show the wood members have been treated to the levels specified with the chemicals noted.
 - d. Submit manufacturer’s written warranty for the flotation units.
11. Construct floats as indicated on the approved submittals, and manufacturers assembly instructions. Notify Owner of progress of work in order that Owner may visit the assembly shop during construction. Arrange Owner’s visit at the completion of the first frame, prior to decking, for review of details and quality of work.
12. The contract lump sum price will be full payment for materials, equipment, tools and labor necessary to complete the float work. The cost of providing attachment of floats to moorings is not included in this contract.
13. Workmen with at least five (5) years of experience in the fabrication of floating docks or similar systems shall be employed