

Invitation for Bids  
Fire Boat  
Moultonborough, NH  
April 21, 2011



Joel R. Mudgett, Chairman  
Board of Selectmen

## Table of Contents

Advertisement.....	3
Scope of Work or Specifications and Conditions.....	4
Bid Forms.....	7



## TOWN OF MOULTONBOROUGH

### Invitation for Bids

### Fire Boat

Sealed bids for the provision of a fire boat will be accepted until 2:00 p.m. on Thursday, April 21, 2011 in the Offices of the SelectBoard, 6 Holland Street, PO Box 139, Moultonborough, NH 03254 at which time they will be opened and publicly read aloud.

The specifications are based upon a NFPA 1925, Type V firefighting Type "V" with enclosed cabin for 6-Man Capacity plus equipment to include but not limited to SCBA, hose, nozzles, back boards, foam. The vessel will be fitted for positive floatation for a full load or crew and equipment plus a safety factor of ten (10) percent. The Hull Type will be a Modified Vee or Downeast configuration or equivalent. It will have a Hull Length Overall of 26' 0"- 28' 0", Beam of 9' 0" maximum, and a Draft of 24" Maximum. It must come equipped with Twin Outboard engines, four stroke and a 150 HP minimum, and a 1,000 GPM 4 cylinder, 3 liter, Marine, Engine Driven Fire Pump with four (4) discharge outlets and ancillary firefighting and operational equipment.

In addition to quote for a straight cash purchase, you will quote a trade-in allowance for the current fire boat and trailer which is to be discontinued upon the acquisition of this new boat. A detailed package with information on the equipment to be delivered, the conditions thereof, and bid forms, is available at [www.moultonboroughnh.gov](http://www.moultonboroughnh.gov) (click on Paid, Volunteer and Contract Openings) or said SelectBoard offices during normal business hours. **A pre-bid conference will be held at 2:00 p.m. on April 12, 2011 at Moultonborough Town Hall.**

Each submitted bid should be in a sealed envelope marked, Town of Moultonborough, Fire Boat Bid, with the due date clearly marked. If mailed, the bid submission should be in a similarly marked separate sealed envelope to protect against the actual bid being opened in error. Any questions with respect to this invitation must be received, in writing by mail (above address), by email ([cterenzini@moultonboroughnh.gov](mailto:cterenzini@moultonboroughnh.gov)), or fax (603.476.5835) by Carter Terenzini, Town Administrator, no later than 4:00 p.m. on April 14, 2011. It is the bidder's responsibility to view and account for any addendums relating to this request. These will be posted on the Town web site no later than 4:00 p.m. on April 18, 2011.

The town reserves the right to reject any and all bids, and waive any minor or non-material informalities, if deemed to be in its best interests.

Joel R. Mudgett, Chairman/s/  
Board of Selectmen

Posted: Town Bulletin Boards (7)  
SAU

Advertised: Meredith News & Carroll County Independent 03/31/11 & 04/07/11  
Manchester Union Leader: Same Dates

Mailed: Vendors List

Web: Craigslist; [winnipesaukee.com](http://winnipesaukee.com); NHLGC

## **Scope of Work or Specifications and Conditions**

### **1.) General Description of the Project, Materials and Quantities**

**Item 1:** The Town is procuring one Fire Boat for its firefighting operations. The specifications are based upon a NFPA 1925, Type V firefighting Type “V” with enclosed cabin for 6-Man Capacity plus equipment to include but not limited to SCBA, hose, nozzles, back boards, foam. The vessel will be fitted for positive floatation for a full load or crew and equipment plus a safety factor of 10 percent. The Hull Type will be a Modified Vee or Downeast configuration or equivalent. The Hull Length Overall will be 26’ 0”- 28’ 0”, the Beam will be 9’ 0” maximum, and the Draft will be 24” Maximum. It must come equipped with Twin Outboard engines, four stroke and a 150 HP minimum, and a 1,000 GPM 4 cylinder, 3 liter, Marine, Engine Driven Fire Pump with four (4) discharge outlets and ancillary firefighting and operational equipment.

### **2.) Specifications & Certification**

See Exhibit A

### **3.) Delivery, Cost, Location and Timing**

All items, as specified, are to be delivered to a location within the Town of Moultonborough as the Town may specify at the time of delivery. The cost of delivery must be contained within your bid pricing.

You must specify the number of calendar days it will take you to deliver the equipment to us from the date we give you the notice to proceed under the contract. You should take careful note of any equipment to be traded in that is to remain in our continued use until the time it is traded in.

### **4.) Term of Contract**

N/A

### **5.) General Conditions**

a.) If you are in default of the delivery date a \$100 per day liquidated damages will be assessed as a credit against any final payments due to you.

b.) If you are more than thirty (30) days late in delivering the equipment you will be given ten (10) days notice to cure the default. You will then have a period of ten (10) days to cure the default. If you do not do so we may cancel the contract.

c.) Any cash payment due to you will be paid ninety percent (90%) upon the date of delivery. The balance will be paid within ten (10) days of our acceptance of the equipment as specified. You will maintain a lien interest in the equipment until that time.

d.) The term “days” will mean calendar days.

e.) Unless otherwise specified to be of a longer duration, you must provide the standard factory warranty as specified by the manufacturer on each and every item to be supplied.

f.) You must have a factory approved service facility within 75 miles of Moultonborough for Item 1.

## **6.) Pre-Bid Conference, Questions, and Supplements**

There will be a pre-bid conference at 2:00 p.m. on April 12, 2011 at Moultonborough Town Hall.

Any questions with respect to this invitation must be received, in writing by mail (above address), fax (603.476.5835) or email ([cterenzini@moultonboroughnh.gov](mailto:cterenzini@moultonboroughnh.gov)), by Carter Terenzini, Town Administrator, no later than 4:00 p.m. on April 14, 2011.

**\*Important Note:** The answers, and any other changes or supplements to this document, will be posted on the Town web site as an Addendum no later than 4:00 p.m. on Monday, April 18, 2011. It is the bidder’s responsibility to check and verify any such changes in order to account for them in their bid. You must acknowledge issued addenda on your bid form.

## **7.) Description, Continued Use, and Viewing of Trade-In(s)**

You are to provide a quote for a trade in of a One (1) 22’ 1984 Imp Boats X230 SC w/Mercruiser 260 5-liter engine, Stern Drive, Full Canvas enclosure, and Shorelander tandem axle roller trailer w/2” ball. Prior to the transfer of the trade in it will be stripped of all decaling, navigation, radio and communication gear, water pumps and specialized fire gear. It will remain in use under its normal operating conditions until the date of transfer. The transfer of the fire boat will not be completed if it has suffered damage beyond normal operating wear and tear.

You may view the Trade-In(s) at the conclusion of the Pre-Bid Conference or by making prior arrangements with Mr. David Bengtson, Chief, Moultonborough Fire & Rescue. You may contact him by email at [dbengtson@moultonboroughnh.gov](mailto:dbengtson@moultonboroughnh.gov) or by phone at 603.476.5658.

## **8.) Bonding**

Bidders must provide certain types of bonding from a surety company authorized to underwrite surety bonds in the State of New Hampshire with a minimum AM Best rating of “A”. and acceptable to the Town in a form that will be subject to the approval of the Town. Bidders may substitute a certified check in the appropriate amount made payable to the Town of Moultonborough in lieu of a bond.

### **A. Bid Bond**

A bid bond or certified check in the amount of five percent (5%) of the bid to ensure that the bidder will enter into a contract and submit a performance bond within fourteen (14) days of notice of award of contract. The successful bidder's bid bond will be returned or released after a contract is executed and an acceptable performance bond has been delivered. In case of failure to comply within the stated time, the bid bond will be forfeited as liquidated damages because of the default.

The bid bond or check of all but the lowest three (3) bidders will be returned after the bids are opened and evaluated and those low three bidders are established. The bid bonds of those that are retained after this process will be returned once a contract with the lowest responsive bidder is executed.

### **B. Performance Bond**

A performance bond in the amount of one hundred percent (100%) of the bid shall be furnished by the successful bidder within fourteen (14) days after receiving the official notice of award of contract. Failure of the contractor to perform according to the contract and specifications will be cause for the town to begin action for forfeiture of the performance bond.

### **9.) Bid due Date and Methods of Delivery**

Sealed bids will be accepted until 2:00 p.m. on Thursday, April 21, 2011 in the Offices of the SelectBoard, 6 Holland Street, PO Box 139, Moultonborough, NH 03254 at which time they will be opened and publicly read aloud. Each submitted bid should be in a sealed envelope marked, Town of Moultonborough, Fire Boat Bid, with the due date clearly marked. If mailed, the bid submission should be in a similarly marked separate sealed envelope to protect against the actual bid being opened in error.

**Town of Moultonborough**  
**Fire Boat**  
**Bid Form**  
**(Please Print in Ink or Type)**

Name of Bidder: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Contact Person: \_\_\_\_\_

\_\_\_\_\_ Telephone \_\_\_\_\_ Fax

\_\_\_\_\_ Email

ATTENTION: Mr. Joel R. Mudgett, Chairman  
Board of Selectmen  
PO Box 139  
Moultonborough, NH 03254

Dear Mr. Mudgett:

Having examined the documentation provided with the subject Invitation for Bids the undersigned proposes to furnish the requested item or materials as requested in accordance with the subject documents.

The undersigned acknowledges Addenda #

\_\_\_\_\_ (If none, write none).

If I am notified my proposal is accepted within forty five (45) days of the bids having been opened, I will execute a contract for the work within fourteen (14) days thereafter.

I propose to provide the following items for the following unit pricing:

<u>Item</u>	<u>Price</u>
1.) Fire Boat	
A. As specified	\$ _____ (In Figures)
_____ Dollars and _____ Cents (In Words)	
B. Deduct Item #1: Reduce Pump size to 750 gpm	\$ _____ (In Figures)
_____ Dollars and _____ Cents (In Words)	
C. Deduct Item #2: Reduce Pump size to 500 gpm	\$ _____ (In Figures)
_____ Dollars and _____ Cents (In Words)	
D. Deduct Item #3: Eliminate supply of trailer	\$ _____ (In Figures)
_____ Dollars and _____ Cents (In Words)	
E. Deduct Item #4: Eliminate supply of motors	\$ _____ (In Figures)
_____ Dollars and _____ Cents (In Words)	
2.) Trade in Value for Equipment Specified	\$ _____ (In Figures)
_____ Dollars and _____ Cents (In Words)	



Time for Delivery: I will deliver this equipment to you within \_\_\_\_\_ days (In Figures) of your notice to proceed (exclusive of the time you take to review and approve my submittals).

I understand that the town reserves the right to reject any and all bids, and waive any minor or non-material informalities, if deemed to be in its best interests.

I understand that the Town may hold my bid for forty five (45) days prior to awarding a contract.

In order to be considered responsive each bidder must submit the following with this bid:

- 1.) Completed Exhibit A, explanation of any deviations from the specifications, and attachments of required drawings, catalog sheets warranty information and the like.
- 2.) Clerk's Certificate showing the authority of the submitting party to bind it to a contract.
- 3.) Bid Bond or Certified Check in the amount of 5% of the bid

I certify, under the penalties of perjury, that (1) I have had an opportunity to view the full bid package and am aware it was my responsibility to perform my own due diligence appropriate to submitting this proposal, (2) I am fully authorized to submit this bid, (3) I have not engaged in discussions, negotiations, or collusion with any person to determine what my bid will be and (4) that I, to the best of my knowledge and belief, have paid all taxes, fees, assessments, betterments or other municipal charges that I owe to the Town of Moultonborough or have payment agreement in place or have filed an appeal over the same.

\_\_\_\_\_  
Signature of Bidder

Corporate

\_\_\_\_\_  
Title of Bidder

Seal

Signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

## Exhibit A – Specification Checklist for Item # 1

The Moultonborough Fire Rescue Department is soliciting bids for a NFPA 1925, Type V firefighting boat to operate primarily in the waters of Lake Winnepesaukee located in the Lakes Region of New Hampshire. Moultonborough’s response area covers 15 square miles of water, 40 plus islands and numerous shoreline properties. The topography of the waters in the Moultonborough response area vary from willow rocky areas with depths of less than 3 feet to open water with depths over 200 feet. Extreme weather routinely creates National Weather Service Small Craft and Lake Wind Advisory conditions and the wave heights are similar to those that can be found along coastal New England. The proposed vessel must be able to provide a rapid response capability with a minimum wave combined with a safe and stable work platform with a full load of crew and equipment.

For each and every item you must check if your proposal meets or deviates from the specifications. If your proposal deviates from the specification you must attach an explanation, identifying the section number (i.e. I.A.; II.B. etc.) and following in order, as to how you deviate together with any explanatory catalog sheets or similar documentation.

### PROPOSED SPECIFICATIONS: Moultonborough Fire/Rescue Boat

I.	<b>Principle Characteristics:</b>	<u>Meets</u>	<u>Deviates</u>
	<ul style="list-style-type: none"> <li>A. National Fire Protection Association 1925 Standard on Marine Firefighting Vessels Type “V” with enclosed cabin.</li> <li>B. Hull Type: Modified Vee or Downeast configuration or equivalent.</li> <li>C. Hull Length Overall: 26’ 0” – 28’ 0”</li> <li>D. Hull Beam: 9’ 0” Maximum</li> <li>E. Hull Draft: 24” Maximum</li> <li>F. Engine/Drive: Twin Outboard, 150 HP minimum</li> <li>G. 1,000 GPM 4 cylinder, 3 liter, Marine, Engine Driven Fire Pump with four (4) discharge outlets.</li> <li>H. 6-Man Capacity plus equipment to include but not limited to SCBA, hose, nozzles, back boards, foam. The vessel will be fitted for positive floatation for a full load or crew and equipment plus a safety factor of 10 percent.</li> <li>I. <b>Preliminary design drawings must be submitted with your bid proposal.</b></li> </ul>		
II.	<b>Construction:</b>	<u>Meets</u>	<u>Deviates</u>
	<ul style="list-style-type: none"> <li>A. The boat will be of all aluminum welded or fiberglass composite construction and utilize no wood in the construction process; it will feature both transverse and longitudinal framing.</li> </ul>		

	<p>B. There will be watertight bulkheads as follows:</p> <ol style="list-style-type: none"> <li>1. Between stem and forward cabin.</li> <li>2. Between forward cabin and pilothouse (below pilothouse style).</li> <li>3. At each end of the fuel bay.</li> </ol> <p>C. Beds, knees and other heavy duty reinforcements will be provided in areas of high stress such as engines.</p> <p>D. All deck and walk ways will have non-skid surfaces.</p> <p>E. A pre-construction meeting, to be held in Moultonborough, will be held to review all aspects of construction and the feasibility of specified requirements once final design drawings are submitted.</p>	<u>Meets</u>	<u>Deviates</u>
<b>III.</b>	<p><b>Hull:</b></p> <ol style="list-style-type: none"> <li>A. The hull will include the installation of a keel protector.</li> <li>B. Depth sounder sensor will be mounted to provide the greatest amount of early detection of willow depths.</li> <li>C. A screened sea chest will be provided. The open screened area will be a minimum of two (2) two times larger than the sectional area of the 6" suction pipe.</li> <li>D. The intake screened area will be fitted with a means to clear debris away from the suction area.</li> <li>E. An Armstrong Nautical or equivalent bracket will be provided for mounting the twin outboards.</li> <li>F. A Rescue/Dive door will be installed on the starboard side of the vessel.</li> <li>G. Flush mounted lights will be provided on the bow, these lights will be designed to provide illumination of the waters and hazards forward and under the bow.</li> <li>H. Lighting will be provided on the stern to provide illumination of the waters and hazards</li> </ol>	<u>Meets</u>	<u>Deviates</u>

	behind and under the stern and outboard engine when backing up during night time operations.	<u>Meets</u>	<u>Deviates</u>
<b>IV.</b>	<p><b><u>Fuel, Propulsion &amp; Steering:</u></b></p> <p><b>1. Fuel:</b></p> <p>A. Fuel capacity will be sufficient to provide a minimum of four (4) hours operating time for simultaneous operation of both outboard motors and the fire pump.</p> <p>B. Fuel storage will be in a single tank constructed, tested and plumbed per USCG regulations and ABYC recommended practices.</p> <p>C. Tank will be installed in a watertight compartment and will be located near the vessel's normal operating LCG.</p> <p>D. The tank will include three (3) valved, pick-up tubes, one (1) for each outboard engine and one (1) for the fire pump engine.</p> <p>E. There will be a removable deck panel above the tank for tank inspection and removal.</p> <p>F. Fuel feed plumbing will include a shut off valve and a filter for each outboard engine.</p> <p>G. All hoses will be appropriately sized so that all engines can operate at full rpm without suffering flow restriction, and all hoses will be USCG approved.</p> <p>H. Minimum fuel feed hose and pick-up diameter is 3/8".</p> <p>I. All fuel distribution lines will either be secured above the highest fuel level when the boat is in its normal, unloaded, static floating position Or</p> <p>J. Will have anti-siphon valves installed at the tank pick-up fitting.</p> <p>K. The tank will be fitted with a fuel level sending unit wired to a gauge at console.</p> <p><b>2. Propulsion:</b></p> <p>A. Outboard Motors and mounting will comply with ABYC H-26, ABYC S-12 and ABYC S-30.</p> <p>B. The two (2) outboard motors will be Honda or</p>	<u>Meets</u>	<u>Deviates</u>

	<p>equivalent, 150 hp Outboards, 4 cycle, one counter-rotating Propellers will be Stainless Steel. Specify what manufacture and type of motor and attach their catalog sheet and warranty information of the same. Vendor must specify appropriate Horse Power rating to provide required propulsion if it is above the specifications.</p> <p>C. Key &amp; kill switches gauges to include:</p> <ol style="list-style-type: none"> <li>1. tachometer</li> <li>2. trim</li> <li>3. volt</li> <li>4. hour</li> <li>5. fuel</li> </ol> <p><b>3. Controls:</b></p> <p>A. Twin lever binnacle w/trim switches.</p> <p>B. Cables are Morse 33C supreme or similar.</p> <p>C. Motors will be of the appropriate shaft length.</p> <p><b>4. Steering:</b></p> <p>A. Steering will comply with ABYC P-17</p> <p>B. Teleflex SeaStar hydraulic w/helm pump, cylinder &amp; tie bar.</p> <p>C. 15" wheel, stainless</p>	<u>Meets</u>	<u>Deviates</u>
<b>V.</b>	<p><b>Pilot House:</b></p> <p>A. The final design and layout of the pilot house will be as approved by the Town at a schematic design meeting to be held in Moultonborough. Vendors should plan for the following when bidding:</p> <ol style="list-style-type: none"> <li>1. The pilot house will be large enough to accommodate six (6) firefighters with hard sides and an open back, and will have a forward raked windshield.</li> <li>2. The pilot house windows will be configured to provide the maximum amount of 360 degree visibility suitable for navigation in all operating conditions.</li> <li>3. The arrangement will consist of a full length bunk to port will be configured to accommodate and secure a Ferno Model 71Basket Stretcher with floatation collar</li> </ol>	<u>Meets</u>	<u>Deviates</u>

	<p>(to be supplied by others) and a helm station to starboard.</p> <ol style="list-style-type: none"> <li>4. Adequate room will be provided for the installation of electronics with radios mounted overhead and/or on the dash/helm area.</li> <li>5. Space, ducts or chases will be provide to allow for the running of wires and cables for emergency lighting and communications and these areas will be easily accessible.</li> </ol> <p>B. The pilot house will include:</p> <ol style="list-style-type: none"> <li>1. Electric defrosters (Front, Port &amp; Starboard sides).</li> <li>2. Windshield wipers.</li> <li>3. Solar power ventilation fan, fan will be sized to provide maximum air circulation in the pilot house and comply with ABYC H-2.</li> <li>4. Remote controlled spot light and controls.</li> <li>5. Red and White LED dome lights placed and appropriate in number as to provide reading quality lighting in the pilot house.</li> <li>6. Ritchie compass.</li> </ol>	<u>Meets</u>	<u>Deviates</u>
<b>VI.</b>	<p><b>Forward Cabin:</b></p> <ol style="list-style-type: none"> <li>A. Forward of the dash bulkhead there will be a trunk cabin providing headroom to the cabin below.</li> <li>B. The forward cabin will be accessed via a 24" wide (approx.) open companionway located to port of the helm station, as close to centerline as possible and 24" x 24" hatch located forward of the windshield and aft of the deck mounted portable monitor.</li> <li>C. The forward cabin will be configured with shelves port and starboard designed to store firefighting and rescue equipment.</li> </ol>	<u>Meets</u>	<u>Deviates</u>
<b>VII.</b>	<p><b>Auxiliary Systems &amp; Equipment Bilge Pumps:</b></p> <ol style="list-style-type: none"> <li>A. The boat will be outfitted with two 1200 GPH electric bilge pumps.</li> </ol>	<u>Meets</u>	<u>Deviates</u>

	<p>B. Manual and Automatic operation of the bilge pumps will be controllable from main circuit breaker panel.</p> <p>C. One pump will be located just forward bulkhead, the other aft of bulkhead.</p> <p>D. The watertight bulkheads will be fitted with drain plugs in order to enable draining to the appropriate bilge pumps.</p>	<u>Meets</u>	<u>Deviates</u>
<b>VIII.</b>	<p><b>Fire Fighting System:</b></p> <p>A. There will be a fire fighting system with a Darley LS Engine Driven, 3 liter, 4 cylinder 1,000 GPM @ 150 PSI pump or equivalent installed at a location to provide the most stability and functional capability.</p> <p>B. The pump and drive engine will be incorporated into the boat's main 12VDC wiring and fuel system.</p> <p>C. The pump and drive engine will be installed in a manner that facilitates ease of removal for repair.</p> <p>D. The pump and drive engine will be removable from the boat by removing the bolts and disconnecting the suction, electrical and fuel.</p> <p>E. Pump controls and gauges will be located so that they can be operated from the helm.</p> <p>F. The pump and drive engine will be installed in compliance with the manufactures recommendations.</p> <p>G. System accessories will include the following:</p> <ol style="list-style-type: none"> <li>1. All piping will be routed under the flooring and will be easily accessible for repair and maintenance.</li> <li>2. Suction will be by means of a grated sea chest with 6" diameter piping through the hull, provision will be made to keep the intake suction grate clean and free of debris while the pump is operating.</li> <li>3. Four (4) 2-1/2" diameter discharges will be supplied, two (2) located on the bow, (one (1) will be plumbed to supply the monitor supplied by the Fire Department) and two (2) located at the stern.</li> </ol>	<u>Meets</u>	<u>Deviates</u>

	<ol style="list-style-type: none"> <li>4. All valves will be equipped with devices indicating the position of the valve (open/closed).</li> <li>5. All piping will be Schedule 40.</li> <li>6. Bending of piping and tubing will be done to reduce the friction loss with elbows used only where absolutely necessary.</li> <li>7. Piping will be support to the weight of a water load, bracing will be provided to resist the nozzle reaction.</li> <li>8. Drains will be provided to drain and sections of the piping.</li> <li>9. A means of flushing and winterizing the pump and all piping will be provided.</li> <li>10. A portable Elkhart R.A.M. (Rapid Attack Monitor) with truck mount, and the installation specifications thereof, will be supplied by Moultonborough Fire Rescue for mounting on the bow in a location that will permit maximum coverage and application of fire streams.</li> </ol>	<u>Meets</u>	<u>Deviates</u>
<b>IX.</b>	<p><b>Electrical System:</b></p> <ol style="list-style-type: none"> <li>A. Electrical systems will comply with Chapters 9 &amp; 10 of NFPA 301, ABYC E-11, and 46 CFR 111 and 46 CFR 112.</li> </ol>	<u>Meets</u>	<u>Deviates</u>
<b>X.</b>	<p><b>Battery System:</b></p> <ol style="list-style-type: none"> <li>A. The vessel will be outfitted with two batteries each of which will be Group 31 marine batteries.</li> <li>B. One (1) will be a starting battery that is separate and independent from the vessels service load and can be isolated from the vessels load when the engine(s) are not running.</li> <li>C. Both batteries will be capable of starting the engine(s).</li> <li>D. Batteries will be compliant with the specifications of the engine manufacturer's requirements for the supplied engines.</li> <li>E. A master switch will be provided for the selection of either or both batteries.</li> </ol>	<u>Meets</u>	<u>Deviates</u>



	<p>F. There will be four (4) position battery selector switches to control flow of current to and from each outboard engine, fire pump engine, and to the accessory system.</p> <p>G. Battery switches will be wired to permit independent switching for each engine (Batt. 1, Batt. 2, Both, Off), and the accessory buss #1 (Batt. 1, Batt. 2, Both, Off).</p> <p>H. The accessory system will include main breakers per ABYC E-11.</p> <p>I. The bilge pump circuit will be wired directly from one of the batteries, such that this circuit will be hot when all battery switches are in the "Off" position.</p> <p>J. A 20 amp dual bank battery charger will be installed wired for shoreline connection.</p> <p>K. Emergency lighting will be provided and powered by a manually controlled independent storage battery and capable of providing one (1) hour of lighting.</p>	<u>Meets</u>	<u>Deviates</u>
<b>XI.</b>	<p><b>Accessory System:</b></p> <p>A. The vessel will be outfitted with two (2) accessory circuit breaker panels providing individually protected and labeled circuits as listed below.</p> <p>B. The main breaker panel will be mounted so as to prevent accidental tripping of circuits.</p> <p><u>Main Panel:</u></p> <ol style="list-style-type: none"> <li>1. Bilge Pump- Aft; manual/automatic</li> <li>2. Bilge Pump- Fwd.; manual/automatic</li> <li>3. Horn</li> <li>4. Cabin Lights. - Pilothouse</li> <li>5. Cabin Lights. - Fwd. Cabin</li> <li>6. Courtesy Lights</li> <li>7. Siren</li> <li>8. Fire Radio</li> <li>9. Navigation Electronics</li> <li>10. Nav. Lights; running/anchor</li> <li>11. Defroster</li> </ol>	<u>Meets</u>	<u>Deviates</u>

	<ol style="list-style-type: none"> <li>12. Aux. Outlets- aft</li> <li>13. Aux. Outlets- fwd.</li> <li>14. Four (4) Auxiliary/Spare</li> <li>15. Aux. Panel at Helm</li> <li>16. Horn Switch</li> <li>17. Bilge Pump Indicator Lights</li> <li>18. Deck Lights.- aft</li> <li>19. Deck/Scene Lights.- port</li> <li>20. Deck/Scene Lights.- starboard</li> <li>21. Deck/Scene Lights.- forward</li> <li>22. Strobe</li> <li>23. Search Light</li> <li>24. Wiper- port</li> <li>25. Wiper- starboard</li> </ol>	<u>Meets</u>	<u>Deviates</u>
<b>XII.</b>	<p><b>Electrical Accessories:</b></p> <p>A. Vessel will be outfitted with the following electrical accessories.</p> <ol style="list-style-type: none"> <li>1. Bilge Pumps: two (2), 1200 GPH</li> <li>2. Forward Cabin Lights: two (2) West Marine, red/white, 7" diameter</li> <li>3. Pilothouse Lights: two (2) West Marine, red/white, 7" diameter</li> <li>4. Compass: Ritchie SS1000 w/ light</li> <li>5. Courtesy Lights: two (2) red lights in the cockpit and two (2) red lights in the pilothouse</li> <li>6. All courtesy lights will be mounted 18-24" above the sole, and will shine down for minimum glare</li> <li>7. Deck/Scene Lights: six (6) 3" x 5" Halogen- two (2) each, fwd &amp; aft; one (1) each, port &amp; starboard</li> <li>8. Controlled by four (4) switches</li> <li>9. Defroster Fans: two (2) 6", 12volt</li> </ol>	<u>Meets</u>	<u>Deviates</u>

	<p>10. Fire Radio: Fire Radio(s) and antennas to be furnished and installed by customer</p> <p>11. Horn: AFI #10026, dual trumpet</p> <p>12. Navigation Lights: Port; Starboard; Pole/Anchor, Aqua Signal. Lights and their placement will comply with USCG Navigation Rules</p> <p>13. Outlets: four (4) 12V, two prong outlets, one (1) each port and starboard outside the aft pilothouse bulkhead, one (1) each in pilothouse, forward, port and starboard</p> <p>14. Raymarine DSM250, digital sounder module or equivalent</p> <p>15. Raymarine Depth/Temp transducer or equivalent</p> <p>16. Depth (Digital): Raymarine ST60 display or equivalent</p> <p>17. Search Light: 1,000,000 candle power, electric remote</p> <p>18. Windshield Wipers: two (2) AFI, self parking, Pantographic Arms</p>	<u>Meets</u>	<u>Deviates</u>
<b>XII.</b>	<p><b>120VAC System:</b></p> <p>A. 30 amp shorepower inlet &amp; galvanic isolator. Accessories will include 30 amp shore power cord (50').</p> <p>B. AC accessories will include the following:</p> <ol style="list-style-type: none"> <li>1. AC Panel: Blue Seas #8043 or equivalent</li> <li>2. Dual Bank Battery Charger:, 20 amp</li> </ol> <p>C. Outlet: one (1) Duplex, GFCI, located in the pilothouse.</p>	<u>Meets</u>	<u>Deviates</u>
<b>XIV.</b>	<p><b>Outfitting Equipment &amp; Hardware:</b></p> <p>The vessel will be outfitted with the following:</p> <p>A. Anchoring &amp; Mooring: - 14 lb. anchor with:</p> <ol style="list-style-type: none"> <li>1. 20' of 5/16" galvanized chain</li> <li>2. 200' of 1/2" nylon anchor line: dead end of line to be secured to stem in anchor locker</li> </ol>	<u>Meets</u>	<u>Deviates</u>

		<u>Meets</u>	<u>Deviates</u>
	<p>B. Anchor Chocks: for stowage on foredeck, not in way of bow access.</p> <p>C. Hull &amp; Deck Equip.: - 3” Mooring Bitts. Three (3)</p> <p>Welded to deck</p> <ol style="list-style-type: none"> <li>1. Four (4) 12” Aluminum Cleats</li> <li>2. Two(2) Bow Chocks</li> <li>3. Bow Eye &amp; two (2) Stern Eyes. Aluminum Fabrication</li> <li>4. Dive Rescue Door. Vessel Topsides will include a 36” dive door on the starboard side. Door will hinge downward/outboard to form integral boarding ladder</li> <li>5. Sheerline Rub Rail. 3” Rubber “D” running full length each side and attached, top and bottom</li> <li>6. Rub Strake. 3” Rubber “D” running approximately 12’, port side only, and attached top and bottom</li> </ol> <p>D. Scuppers. Scupper pipes will be provided for drainage of self bailing cockpit, port &amp; starboard.</p> <p>E. Rails:</p> <ol style="list-style-type: none"> <li>1. Bow Rail. Fabricated with 1” Schedule 40 Aluminum pipe. Secured to foredeck. Rail will extend 24-26” above deck and will run from after portion of trunk cabin to the bow, with a 20-34” opening at the bow.</li> <li>2. Hand Rails. <ol style="list-style-type: none"> <li>a. Pilothouse interior- overhead on centerline.</li> <li>b. Pilothouse exterior- aft corners &amp; roof top.</li> <li>c. Outboard Engine Guard Rail. 2.5” sch. 40 aluminum pipe, welded.</li> </ol> </li> <li>3. Rescue Rails. Dive door area will have horizontal and vertical rails fore &amp; aft of door opening. Rails will be 1” sch. 40 aluminum pipe welded to hull.</li> </ol>		

	<p>F. Stowage:</p> <ol style="list-style-type: none"> <li>1. Anchor Locker. Forward of bulkhead #1 Stokes Litter Compartment. Enclosed compartment running fore &amp; aft on the port, outboard side of the pilothouse with hinged door access at the aft pilothouse bulkhead.</li> </ol> <p>G. Misc. Deck Access:</p> <ol style="list-style-type: none"> <li>1. Four (4) Viking or equivalent round deck plates, plastic w/ Tee handles accessing fuel tank fittings and misc. equipment below deck.</li> </ol>	<u>Meets</u>	<u>Deviates</u>
<b>XV.</b>	<p><b>Pilothouse &amp; Cabin Joiner Work:</b></p> <p>A. Pilothouse Windows, four (4) in total, all Bomon, aluminum framed, clamp ring design with .25" safety glass or equivalent:</p> <ol style="list-style-type: none"> <li>1. two (2) fixed windows forward</li> <li>2. one (1) horizontal slider each port and starboard</li> <li>3. and one (1) fixed window aft in the partial bulkhead</li> </ol> <p>B. Seating:</p> <ol style="list-style-type: none"> <li>1. Pilothouse port side will have a full length bench with 3-4" cushion. Bench height is approximately 36" to cushion top and bench depth is approximately 24".</li> <li>2. Pilothouse bench will have three (3) "ambulance style" straps to secure patient.</li> <li>3. Helm will have a Todd #1000 pedestal helm seat with slider &amp; swivel or equivalent.</li> </ol> <p>C. Dash: - Custom dash arrangement to accommodate engine gauges and controls, breaker panels, and electronic accessories. Dash will be located to starboard. (<i>Layout to be approved by Moultonborough Fire Dept.</i>)</p> <p>D. Forward Cabin: - Joiner Work will consist of a small removable sole and fixed shelving at the perimeter, running full length- two (2) shelves per side.</p> <p>E. The trunk will be fit with a 19" square escape hatch/skylight, Bomar # 1039-10A or equivalent.</p>	<u>Meets</u>	<u>Deviates</u>

<p><b>XVI.</b></p>	<p><b>Paint &amp; Finish:</b></p> <p>A. Vessel Color: White</p> <p>B. Lettering &amp; Accent Striping:</p> <ol style="list-style-type: none"> <li>1. “MOULTONBOROUGH FIRE 15B1” in 7” reflective letters on each side.</li> <li>2. 4” red reflective striping, each side.</li> </ol>	<p><u>Meets</u></p>	<p><u>Deviates</u></p>
<p><b>XVII.</b></p>	<p><b>Additional Accessories:</b></p> <p>A. The boat will be provided with the following additional accessories:</p> <p>A. A tandem axle bunk trailer with brakes, the trailer will be appropriately sized to accommodate the weight of the vessel fully loaded with equipment. Trailer to fit a 2” ball. Vendor must specify the appropriate trailer weight needed for vessel.</p> <ol style="list-style-type: none"> <li>1. Manufacturer and component manufacturer manuals and warranty information and As-Builts.</li> </ol> <p>B. Two (2) Copies of Wiring &amp; Operation manuals.</p>	<p><u>Meets</u></p>	<p><u>Deviates</u></p>
<p><b>XVIII.</b></p>	<p><b>Final Outfitting &amp; Sea Trials:</b></p> <p>A. Pre-Completion Inspection (Prior to Pump Mounting) (At your location)</p> <p>B. Factory Trials, upon completion, will be performed prior to acceptance trials. All features of the vessel will be checked for proper performance and operation. The Town will be notified in sufficient time to allow its representatives to be present should they so wish.</p> <p>C. Upon successful completion of the factory trials, the vessel will be provided with half fuel and factory personnel for Customer Acceptance Trials at a location agreeable to the Town purchaser.</p>	<p><u>Meets</u></p>	<p><u>Deviates</u></p>
<p><b>XIX.</b></p>	<p><b>Warranty: Minimum</b></p> <p>A. Boat (Unlimited one (1) year).</p> <p>B. Pump (three (3) years parts and labor).</p>	<p><u>Meets</u></p>	<p><u>Deviates</u></p>

	<p>C. Motors (three (3) years parts and labor).</p> <p>D. Other equipment and accessories per manufacturer's .</p>	<u>Meets</u>	<u>Deviates</u>
<b>XX.</b>	<p><b>Training:</b></p> <p>A. One (1) day (8 hours) of training in Moultonborough will be provided by a qualified factory representative.</p>	<u>Meets</u>	<u>Deviates</u>
<b>XXI.</b>	<p><b>Options:</b></p> <p>B. Deduct #1: Substitute Darley 750 GPM @ 150PSI pump or equivalent.</p> <p>C. Deduct #2: Substitute Darley 500 GPM @ 150 PSI pump or equivalent.</p> <p>D. Deduct #3: Eliminate Supply of Trailer</p> <p>E. Delete #4: Eliminate the Supply of the Outboard Motors</p>	<u>Meets</u>	<u>Deviates</u>
<b>XXII.</b>	<p><b>DESIGN SUBMISSIONS:</b></p> <ol style="list-style-type: none"> <li>1. Preliminary Plans (w/Proposal)</li> <li>2. Schematics (i.e. 40%)</li> <li>3. Pre-Construction (90%)</li> <li>4. Final (100%)</li> <li>5. Record "As Builts" (At Delivery)</li> </ol>	<u>Meets</u>	<u>Deviates</u>