 Attachment B – Specifications

RFx No.: 3000023691 Title: Small Boat Hull - LUMCON

**HULL SPECIFICATIONS:**

Length: 24’ + fantails = 26’6” LOA

Bottom: 80” (3/16”)

Sides: 30” (3/16”)

Beam: 8’ 8”

Manufacture maximum suggested horsepower: single 225 hp (owner supplied)

Hull consists of all 3/16” **5086** marine grade aluminum (bottom – sides – transom)

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Front deck:** 4’ long with top flush hatch. 3” x 1” x 1/8” crimped channel braces used for structural support underneath deck. Deck to have top access flush lid with ½” aluminum barrel hinges. Lid to have 3” channels for support. Hatch to sit into 2” x 2” channel with top gaskets. Front deck to have full 1/8” bulkhead from keel to chimes to below gunnel top – bulkhead to be completely solid welded and tested – bulkhead to have 13/16” hole drilled approximately 4” from keel of vessel

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Gunnel rails:** 3” wide rails on the entire inside of the hull with 2” schedule 40 half pipe towards the outside of hull (aluminum rub railing) – Solid welded half pipe top connecting sides to half pipe to rails – bottom of half pipe to sides with a tack pattern 8” gap and 3” of weld, consist thru out the hull sides – top welds to be grinded and cleaned

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Flooring:** 1/8” tread plate airtight double bottom pressure checked for leaks **LUMCON Officers to** **witness and inspect pressure-checking** Floor to be solid welded to sides, Slot welded to ribs with a tack pattern 8” gap and 3” of weld, consist thru out the hull. 1 ½” x 3/16” angle welded under subfloor between each rib section to prevent floor from buckling & popping

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Transom:** 3/16” transom with 2 - 4” channels extending port to starboard. 1” schedule 80 pipe center drain welded solid. Transom designed to support a single 25” shaft outboard engine.

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Heavy Duty Hull**

Longitudinal (length of the hull)

6 – 2 ½” x 1 ½” x 3/16” corrugated bottom runners pressed into hull plating, running the length of the hull.

4 - 2 ½” x 1 ½” x 3/16” corrugated side runners pressed into side plating.

8 – 2” x 3/8” flat bar stringers running the length of the boat between each corrugation welded with tack pattern of 8” gap and 3” of weld on each side of flat bar stringer thru out the length of the hull

1 – 3” x 3/16” center line keel plate - Tee bars to be tack welded to bottom plating with tack pattern 8” gap and 3” of weld throughout the length of the hull

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Transverse (width of the hull)**

3” x 2” x 3/16” angles on 16” centers coped over the stringers – angles to be cut and fitted to flare of sides of hull & keel plates

2” x 2” x 1/8” square tubing serving as floor supports – Tubing to be cut and fitted to flare of sides of hull

3/16” keel connecting plates to be slotted to fit over the keel plate – plates to connect floor tubing, angles, and the keel plate together on 16” centers – this bracing and structure to be welded solid forward and aft

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**LUMCON Officers to** **witness and inspect rib structure before flooring is installed to ensure the rib structure building process is accurate and correct to the written specifications.**

**LUMCON Officers to have full access to the boat during the building process.**

**Fuel tank:** 40 gallon fuel tank located forward of center console - Shell of tank to be 1/8” thick aluminum – side plates to be 3/16” - tank to have center baffle – side walls to have four 2” x 3/8” flat bars installed top to bottom port and starboard – tank to be tested with 2lbs of pressure - Tank to be bolted down with stainless steel hardware - 3/16” mounting flange on outside edge - 2 - 1 ½” x 1 ½” x 3/16” mounting clips installed on front of tank welded solid - 2 floor mounting clips 1 ¼” x 1 ¼” x 3/16”

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Center console:** Console shell to be 1/8” with 3/16” top plate and face plate – console to be solid welded to flooring – console to be 38” tall x 18” deep x 36” wide – forward console plating to have square tank cutout to allow tank to slide into front of console 8” deep – 1” top holding lip installed on top aft edge of console with four ½” drain holes

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Windshield:** 3 sided aluminum windshield – 22” tall from top of console – 1/8” aluminum construction – welded solid to console – 1 ½” top and side lip – 2 – ¾” aluminum pipe grab rails port and starboard – welded to windshield lip and console faceplate – windshield to have 3 glass cutouts forward to be 26 ½” x 16 ½” with 3” round radius corners – each side to have 11 ¼” x 15 ½” with 3” radius corners

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Floor track:** 4 ½” x 2” x 3/16” channel installed flush into flooring with tread plate top

cap – track extending from cabin to transom sump hole – track to be welded solid to retain the double bottom air tight integrity - 4” hole cut into front and rear section to allow controls to pass thru

**Specify Bid Complies with above: Yes\_\_\_ No\_\_\_**

**Leaning post:** Custom built aluminum leaning post with lockable dry storage underneath – designed for ice chest to slide underneath – seat to be width of console 35 1/4” x 7 1/4” aluminum with rear fold down access door - 4 - 1 ½” schedule 40 pipe legs with 1” schedule 40 pipe cross members - welded solid to flooring

**Specify Bid Complies with Above: Yes\_\_\_ No\_\_\_**

**Rear decking:** 36” tread plate rear decking enclosed with built in splash well – deck to have C-channel bracing underneath for support – splash well to have 2 overboard drains 1” schedule 80 pipes - rear deck to be open underneath to access to sump hole and battery

**Specify Bid Complies with Above: Yes\_\_\_ No\_\_\_**

**Fantails:** 30” tread plate split fantails with C-channels underneath for support

**Specify Bid Complies with Above: Yes\_\_\_ No\_\_\_**

**Cleats:** 4” - 8” aluminum weld on cleats – solid welded

**Specify Bid Complies with Above: Yes\_\_\_ No\_\_\_**

**Rub Rail:** black 3” hard rubber rub rail along port and starboard sides.

**Specify Bid Complies with Above: Yes\_\_\_ No\_\_\_**

**Push Knee Option:**

4” Heavy duty rubber knees located port and starboard side.

**Specify Bid Complies with Above: Yes\_\_\_ No\_\_\_**

**ACCESSORIES PACKAGE:**

1. 3 - ¼” safety glass installed into aluminum frame
2. Navigational lights: flush front lights & removable white all-round light (Seadog – Attwood or Equal)
3. Hydraulic steering system – (Teleflex Sea star or Equal)
4. Stainless steel steering wheel – (Seadog or Equal)
5. 1100 gph automatic bilge pump with manual override switch on dash – (Rule or Equal)
6. Fuel system (fittings, shut valve, and fuel water separator) – (Teleflex – Perko or Equal)
7. Fuel sender installed into tank with dash mounted gauge – (Teleflex or Equal)
8. 6 gang electric control panel – (Blue Sea systems or Equal)
9. 12 volt power plug set on console – (Seadog or Equal)
10. Electric horn – (Sea choice or Equal)
11. Electric trim tabs – (Lenco or Equal)
12. Marine cranking battery – (Interstate or Equal)
13. Battery case with holding strap – (Sea dog or Equal)
14. Vinyl seat cushion for leaning post – (Gray or Equal)
15. Hydraulic jack plate 6” set back all in one unit – (Bob’s Machine Shop or Equal)

**Specify Bid Includes All Accessories Above: Yes\_\_\_ No\_\_\_**

**WARRANTIES:**

Hull: twelve (12) month warranty against any manufacture or workmanship defects.

**Specify Bid Complies with Above: Yes\_\_\_ No\_\_\_**

**Spec. /Detail Reference Exception/Deviations**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**