

#13-R-2252213

## CUSTOM-BUILT ELECTROFISHING / MULTI-PURPOSE WORK BOAT

### Boat Description:

20ft all welded aluminum plate boat USCG approved

- 102 inch beam, 84 inch bottom, 0.125 inch sides, 0.190 bottom
- 6 degree Vee bottom
- Chopped Vee bow
- 2"x 2"x 0.125" cross ribs welded in on 12 inch centers (spaced 10 inches apart)
- Ice runners on bottom
- Seams doubled welded throughout sides, transom, and bottom
- 1 5/8" gunwales
- 25 inch transom
- 24 inch sides
- Recessed bow eyelet for safety chain and strap hook
- Side console with control box rack
- Insulated cooler storage in front of console with drain
- Floor enclosures for wiring and conduit concealment
- Continuous back deck with splashwell
- Seat mounted on continuous back deck
- Storage on port side in back deck
- 48 inch front deck side drains (weep holes)
- Boat interior painted non-skid OD green
- Removable bow safety rails (with LED shock lights)
  - o OSHA approved minimum 42" height from front deck
  - o 1" inside diameter aluminum pipe, 0.133" wall
  - o 4 light boxes incorporated into rail for LED shock lights
- 25 gallon fuel tank built into front deck, fill and console gauge
- 30 inch batwing high sides at rear and stern
- Transducer mounting bracket on transom
- 1 1/2" drain hole

### Boat Amenities:

- Cranking Battery
- Marine deep cycle accessory battery with on the go charging system
- Navigation lights
- 500 gph bilge pump
- 14 gang 12v fuse panel with ATO style blade fuses mounted under console
- Removable LED pole work up light at side console
- Hummingbird 587 ci HD down scan combo unit installed at side console
- Removable custom fish tank 60"x24"x24"
  - o Dualhinge lid
  - o 2" standpipe drain and plug
  - o Aerator and quick disconnect fill

### Twin Outboards:

- Two Mercury 90hp Optimax outboards
- Power tilt and trim
- Twin throttle controls at side console
- Hydraulic Steering
- Mercury Smartcraft gauges, RPM, trim
- Aluminum propellers

### Trailer:

- Custom built tandem axle
  - o Galvanized
  - o 3500 lb axles
  - o 2 inch coupler, 7 pole light connector, safety chains
  - o Hydraulic surge brakes
  - o Heavy duty swivel jack and winch with strap
  - o LED stop, turn, side marker, and license plate lights
  - o Synthetic bunk material

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- o Aluminized wheels with mounted spare and tire to match

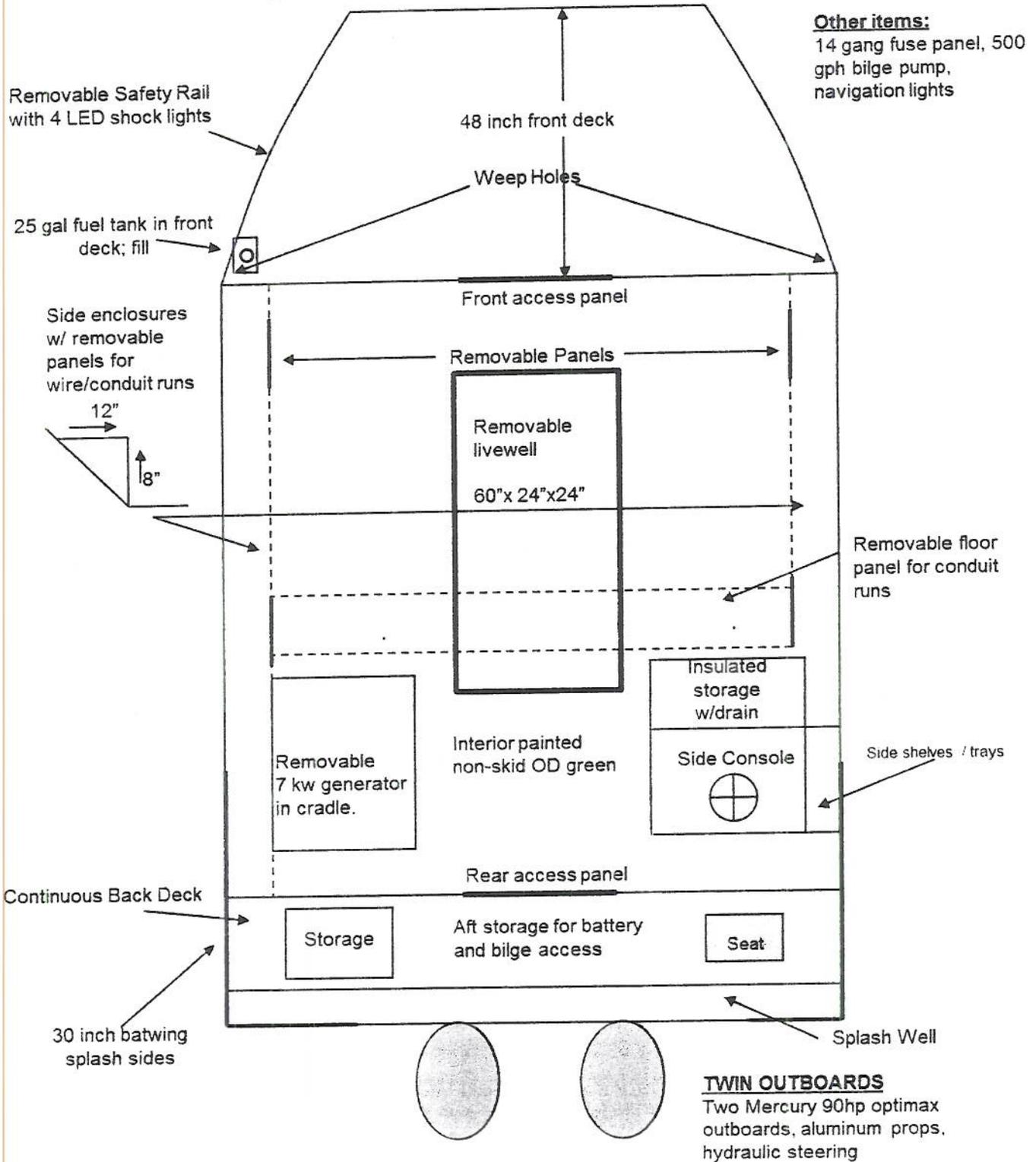
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#### Electrofishing Systems Equipment:

- 7 kw Honda powered /general generator air cooled with electric start
  - o Isolated case neutral
  - o Removable; moored to floor in cradle
- Two collapsible anode arrays with 40" span
  - o w/ 3/16" stainless steel cables
- Two standard push out electrofishing booms
  - o 2" outside diameter, 1/4" wall
  - o crafted from combination fiberglass and thermosetting polyester resin with UV inhibitors
- Stainless steel boom hangers
- All stainless steel hardware
- Bow foot safety switch pad 14" x 23"
- Infinity ControlBox
  - o Output power up 7200 watts AC (may be pulsed) or 12000 watts pulsed DC
  - o Equivalent to 240 VAC at 30 A rms or 300 VDC at 40 A (600v 20A, 1100v 10A)
  - o Pulse Rate adjustment from 1 pps to 300 pps in 1pps increments
  - o Duty Cycle adjustment from 1% to 100% in 1% increments
  - o Modern electrofishing technology
    - automatic voltage range shifting for three ranges of voltage
    - high voltage soft starts
    - software protection for internal circuitry and overloading
  - o Digital metering (peak watts, amps, volts) and information/status display
  - o Monitors input frequency and voltage from source generator
  - o Auto-correction of frequency and voltage to ensure consistent output waveforms
  - o Isolated high voltage output from safety switch circuit
  - o Integrated safety switch continuity test function
  - o Resettable fishing time
  - o Emergency shut-down switch
  - o Hermetically sealed / splash resistant design
  - o Water resistant main breaker (electric hydraulic)
  - o Three high voltage 25A external fuses (water tight and spare fuse included)
  - o External hardware gasketed and o-ringed for splash resistance
  - o System incorporated with nickel metal hydride battery
    - data recall when unit is powered down
  - o Powered by commercially available generators (with isolated neutral)
  - o 16"x12"x11" aluminum chassis
  - o 27 lbs
- Integrated Plug and Go system incorporated into boat
  - o System crafted from high density polyamide
  - o Waterproof connections, UV resistant, and rated for 32 A
  - o Nitrile o-rings and silicone rubber sealing gaskets
  - o Machined solid brass, nickel plated contacts
  - o Positive locating keyways only terminate into correct receptacles
  - o UL, CSA, VDE, approved

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20 ft Chopped V front, 6 degree V bottom  
All welded 0.125" sides, deck and floor, 84 inch 0.190" bottom, 102" beam, 24" sides, 25" transom, 30" high splash sides at rear and stern.



\* Boat schematic not to scale

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