

“CLYDESDALE” MODEL TRUCKABLE WORK BOAT—7 FOOT HULL

LENGTH:	25'-3" LOA
BEAM:	16'.
DEPTH:	7'
DISPLACEMENT:	Approximately 50,000 pounds.
STEEL:	All new steel prime to ASTM A-36.
SHELL PLATING:	Deck shall be ¼" plate. Sides, bottom, head log and transom of 3/8" steel plate. Hull corners shall be ½" thick plate.
FRAMING:	Deck framed with 3" x 3" x ¼" angle on 24" centers. Sides framed with 3" x 3" x ¼" angle on 20" centers. Bottom framed with 4" x 3" x ¼" angle on 20" centers. Welding on all frames shall be 3" on 12" centers.
BULKHEADS:	Two ¼" plate watertight transverse bulkheads shall be installed.
BULWARKS:	Continuous all-around hull. Bulwarks extend 14" above deck and flanged 2" built from ¼" plate and brackets.
RUB BARS/FENDERS:	20' x ½" x 4" flat bar down each side of hull. Hull corners shall be segmented push knee fenders with fairing plates on the sides and transom. 4 push knee fenders shall be installed on the head log.
PUSH-KNEES:	9' OAH boxed push knees with steps and handrail shall be installed. Upper 3' section shall be removable. Pads are 2" thick rubber bonded to ½" x 10" steel backing plate.
WINCHES:	Two 5-ton manual winches shall be installed on the forward deck. Owner shall furnish and install winch cables.
EYE-LEVEL:	Approximately 18'-6" from inside of pilothouse.
PILOTHOUSE:	Pilothouse is 4' 6" wide x 4' long x 6' 9" high and is constructed of 3/16" steel plate with sloping forward window and visor around roofline. Sides framed with 3/8" x 2" flat bar. Overhead pilothouse framed with 2" x 2" x ¼" angle and 3/8" x 2" flat bar. The pilot house is elevated on a 11' pedestal. One overhead cabin light shall be installed. Two six-gang 12-volt breaker panels mounted in dash of pilothouse. Front window 4' x 3' horizontal slide. Side windows are 3' x 3' horizontal slide and rear windows are 15" x 30" vertical slide with one of these mounted in 6' x 2' steel door. All windows are tempered safety glass. One 7" sealed beam searchlight and one single-bugle horn mounted on pilothouse top.
ENGINE HOUSING:	Engine room housing is 8' long by 9' wide by 37" above deck. Constructed of 3/16" plate and framed with 3/8" x 2" flat bar. Overhead framed with 3" x 3" x ¼" angle. Housing cover is removable for complete access to engine room.
DECK HOUSE:	Deck house 4'-6" long x 10' wide with handrails around pilot house.
POWER TRAIN:	Two John Deere 6090 AFM85 diesel engines, 375 HP each @ 2300 RPM (M3 rating) connected to two Twin Disc MG-5091SC or equal with 2.95:1 ratio shall be installed. Two 3" Aquatech 17 stainless steel propeller shafts with two 38"x20" x 4 blade bronze propellers shall be installed. Two 3" Cutlass stern bearings shall be installed. Two PYI packless shaft seals or standard stuffing boxes with containments and pump shall be installed. Exhaust installed through stacks

	mounted on engine box top through 6" "cowl" spiral exhaust silencers, residential quiet.
ENGINE COOLING:	Closed freshwater system circulated through grid cooler recessed into the side. System is air pressure tested for integrity before painting.
FUEL TANK:	Fuel tank capacity is approximately 350 gallons and is air pressure tested before installation. The fuel tank has a vent pipe and 2-½" fill pipe and valve for fuel shut off. Emergency fuel shut off outside engine room shall be installed.
RUDDERS:	Two main steering rudders and four flanking rudders shall be installed. Rudderstocks shall be 2.5" cold drawn steel in bronze bushings. Rudders constructed of 3/8" steel plates with 3/8" x 2" flat bar bracing. Rudder angle indicators shall be installed in the pilot house.
HYDRAULIC STEERING:	Two hydraulic pumps, one driven off each main engine. Control valve and flow regulator mounted in engine room.
ENGINE CONTROLS:	Single lever control head with heavy-duty 43C control cables.
ELECTRICAL SYSTEM:	Two 12-volt heavy-duty 8D marine batteries mounted in Coast Guard approved engine room battery box.
NAVIGATION LIGHTS:	Mast on top of pilot house shall have two white tow lights forward and two amber tow lights aft. Green and red side lights shall be installed on the side of the pilot house.
BILGE PUMP:	Four 12 volt 1,000 GPH pump.
FIRE DET/GEN ALARM:	One fire detection and general alarm system shall be installed.
BLOWER:	Two 700 CFM 12 VDC blower for engine room shall be installed.
MISC. EQUIPMENT:	Owner shall furnish and install all safety equipment, communications equipment, lifesaving, firefighting, protection, and suppression equipment, mooring lines and towing gear required by the USCG.
BITTS:	One double towing bitt, one single head bitt, and four single quarter bitts. All bitts are 6" pipe.
LIFTING EYES:	Four permanent eye straps welded to hull.
ANODES:	Four 12-pound magnesium anodes shall be installed on bottom aft.
PAINT SYSTEM:	All plates and shapes shall be blasted and coat with a pre-construction primer. Exterior hull, decks and pilot house shall be sprayed with epoxy paint. Hull below the waterline and the deck shall be sprayed with one coat epoxy topcoat. Hull above the waterline and house shall be painted with one coat of polyurethane paint. Engine room sprayed with one coat of epoxy topcoat. The paint manufacturer shall be Sherwin Williams or equal. Main deck and top of engine cover shall have non-skid deck. Colors: hull black, superstructure white, decks and engine room gray. Newt Marine standard colors apply.