

# AMOS & SMITH, LTD.,

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## ALBERT DOCK WORKS,

HULL.

1st October, 1942.

s.s. "ST. SUNNIVA"

### Outline Specification for Conversion to RESCUE VESSEL for Ministry of War Transport (D.S.T.O)

All existing arrangements and fittings to be used where available, and alterations and additions to be carried out as per plan, the general details and fittings to be supplied as is usual for a vessel of this class.

#### DOUBLE BOTTOM

All double bottom to be used for freshwater. At present Nos. 1.2.3 & 4 carry freshwater, and No.5. saltwater. This tank to be thoroughly cleaned out and cement washed and suction altered to freshwater system.

#### No.2. HOLD

The wood deck in No.2. lower Tween decks to be removed, but beams, tie plates, etc., to remain to form a reserve bunker of about 250-Tons capacity. Pig iron ballast on port side (trimming ballast) to be retained as necessary to correct list after forward deck crane has been removed ashore. All steam, water and sanitary pipes and storm valves to be efficiently cased in. Two watertight doors about 5'0" x 2'6" to be fitted in 71 bulkhead for trimming coal to stokehold, with control rods carried up to upper deck alleyway. Wood ramps fitted with shovelling plates, as necessary, for coal barrows, and deep fender plates, at sides and back of forward boiler. Two Woollon's No.2. coal scuttles fitted in upper deck alleyway, as per plan, with watertight steel trunks through accommodation for trimming purposes. Ventilation to modify to suit and steel trunk plating fitted across No.2. hatch above 88 bulkhead, suitably stiffened against weight of coal.

#### SEA CONNECTIONS

All sea connections to be suitably stiffened to withstand explosions and encased in cement boxes.

#### LOWER DECK

The 12 existing portlights in Stewards' & Crew's accommodation in lower Tween decks to be removed and spigot patches fitted to shell.

The existing accommodation for Stewards' and Cooks at after end of lower Tween decks to be retained, but larger ladder to be fitted as per plan: new access hole to cut in deck and old one to fill up. Bar & Saloon bulkheads to be modified to give access clear of Saloon. Separate emergency hatch fitted in Saloon floor with light hinged ladder up to beams for escape.

No.3. Lower Tween decks. After end to be fitted up for accommodation of Gunners and Signaller with all necessary mess table, seats, lockers, mess racks etc., Ladderway to be fitted to upper deck with emergency escape door fitted at main deck level. Forward end to be fitted up as store rooms, magazines, cold store, etc., as required. Ladderway to be fitted up to Trunk hatch for access and 3-ft wide door cut for stretcher cases.

MAIN DECK

Dining saloon, Tables and Chairs to be re-arranged as per plan for seating 60 persons. Settee cushions to be renovated or renewed as required.

Ladies' Room: To be divided up as per plan forming Hospital operating room or Dispensary and Waiting Room for Patients. Hospital to be fitted with two double beds and two single cot beds, wardrobe cupboard, kneehole desk and drawers, chair etc., Operating room to be fitted with upholstered operating table, easy chair, instrument cupboards, Dresser, hot water boiler, sink, wash basin, steam heaters, etc., as necessary. Lathed seats in Waiting Room with Gunners' escape door at end. Present W.C.'s to be retained for hospital use and bulkhead altered to give access to bathroom. Hospital door to be widened to 3-ft to admit stretcher cases.

Accommodation: Stewards' W.C. to be fitted between bathrooms on port side and doors modified to suit. Additional bathroom to be fitted on starboard side with wash basin etc., for survivors. Bed and drawers and wardrobe to fit in Doctor's Cabin, also desk.

Midship accommodation generally to be altered back to original arrangement after removal of Crews fittings etc., on starboard side, W.C. doors at forward end to be set back to make room for coal trunks and escape doors to be fitted for access to forward accommodation through lavatories.

Additional doors to cut in forward bathrooms, so that same can be used by forward survivors when required, and wash basins, etc., altered to suit.

Forward accommodation for survivors to be arranged as per plan, with double beds, seats, tables, etc., Ladder to fit and door to cut in forward gun stiffening for access, and additional steel companion and wood ladder fitted at after end of No.2. hatch. Room for Carpenter and Bosun to fit at fore end with access from Crew's Companion, as shewn.

See later arrangement of Crew Space.

UPPER DECK

Existing smoke room to be divided as per plan, to form entrance to Gunners' accommodation, and to be fitted with W.C. and wash place. Door to cut in Port side and starboard side of gun support. Forward part of house to form a Ward Room and fitted with settee, tables and chairs as per plan. Three large ice boxes to be obtained from Naval Stores and fitted, as shewn.

Additional ladderway to cut in aft end boiler casing on starboard side for access to boat deck, also ladder fitted up to after end of boat deck.

Port side house to be appropriated for the accommodation of Chief Engineer and Wireless Operators, single and double beds and drawers, and wardrobes, being fitted as shewn. Bath fitted in after room on port side for Officers use. Service lift to be fitted in galley down to Saloon alleyway, as shewn. Galley ranges to overhaul and rebrick as necessary. Officers Galley range to remove for Bakers Oven.

Existing Bosuns store in starboard alleyway to be altered to accommodate 4th Engineer with bed and drawers, seat, wash basin, etc., as usual. Steel companion for access to forward accommodation to be fitted aft of No.2. hatch, as already mentioned.

The 3-Ton crane at present fitted on the starboard side offore deck to be removed ~~with~~ ashore, to clear gun platform. A 28'0" derrick, complete with gooseneck band and necessary fittings, guys, topping lift, etc., to be fitted on after side of Foremast, for handling rescue baskets, etc., A small steam winch to be obtained from Naval Stores and fitted as shewn for working derrick.

Opening to be cut in forward gun support, and double doors fitted for access to crew. Lamp room in starboard sidehouse to be altered, to form Firemen's wash place and 2 W.C.'s similar to port side.

Two 15'0" booms for scrambling nets on fore deck.

ARMAMENT

The 12-Pounder HA/LA gun at present fitted aft to be retained after being reconditioned. The 12-pdr gun mounted forward to be removed to Naval Store and a Bofors gun fitted in its place with necessary ammunition and ready use lockers, and plastic armour.

Two Oerlikon guns on tubular supports to be fitted forward of Navigating Bridge with all necessary fittings etc. Two Oerlikon guns to be fitted at fore end of after boatdeck on steel plate with necessary stiffening below.

Two F.A.M.'s to be fitted at after end of boat deck at rail level.

Four P.A.C. Rockets and Boxes fitted at sides of upper Bridge.

Twin Lewis Gun Mounting on top of upper bridge to be retained.

Plastic armour to be fitted as required by D.E.M.S. round wheelhouse and wireless house with outside canopies as necessary.

MAGAZINES

12-Pounder Magazine to be fitted in after lower Tween decks to instructions from F.O.G.O. complete with flooding arrangements.

Bofors Magazine to be fitted in No.1.Hold port side clear of hatch with flooding arrangements.

2 Ammunition davits to supply and fit.

H/F.D/F EQUIPMENT

Forward port corner of Ward Room to form room to take equipment as supplied by Naval Authorities. Frame aerial etc., to be fitted as directed, and room fitted out in accordance with Admiralty specification and D.I.H/T. protection.

PAINTING

Vessel to be drydocked and bottom cleaned and given one coat of anti-corrosive and one coat of anti-fouling.

Topsides and all deckwork to be painted Admiralty Grey.

Inside accommodation to be cleaned and painted as necessary: also all crew spaces, storerooms, etc., Reserve bunker to be painted with Red Oxide.

ELECTRIC LIGHTING ETC.

Ship's lighting to be altered where necessary to suit new arrangement and all circuits to be overhauled and repaired, or renewed as necessary.

D/G coils at present in waterway to be removed and permanent coils fitted in Tween decks, and carried through steel pipes in bunkers., and refrigerated chambers.

DARKEN SHIP

All necessary curtains, shutters, etc., to be overhauled and brought up to requirements of D.E.M.S. Equipment Officer. Automatic door switches and dimmers to be fitted where necessary.

BOATS AND L.S.A. All to be opened up for Survey and necessary repairs and renewals carried out to Surveyors satisfaction. Motor fitted in one lifeboat and 16-ft motor boat supplied under davits for rescue work.

COLD CHAMBERS - Refrigerated meat and vegetable rooms to be fitted in No.3.Tween decks operated by a Hall's 1½ K/W Set.

RUBBING FENDER -To be removed. Shell flange to be left, standing flange cut off at root and wood removed.

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