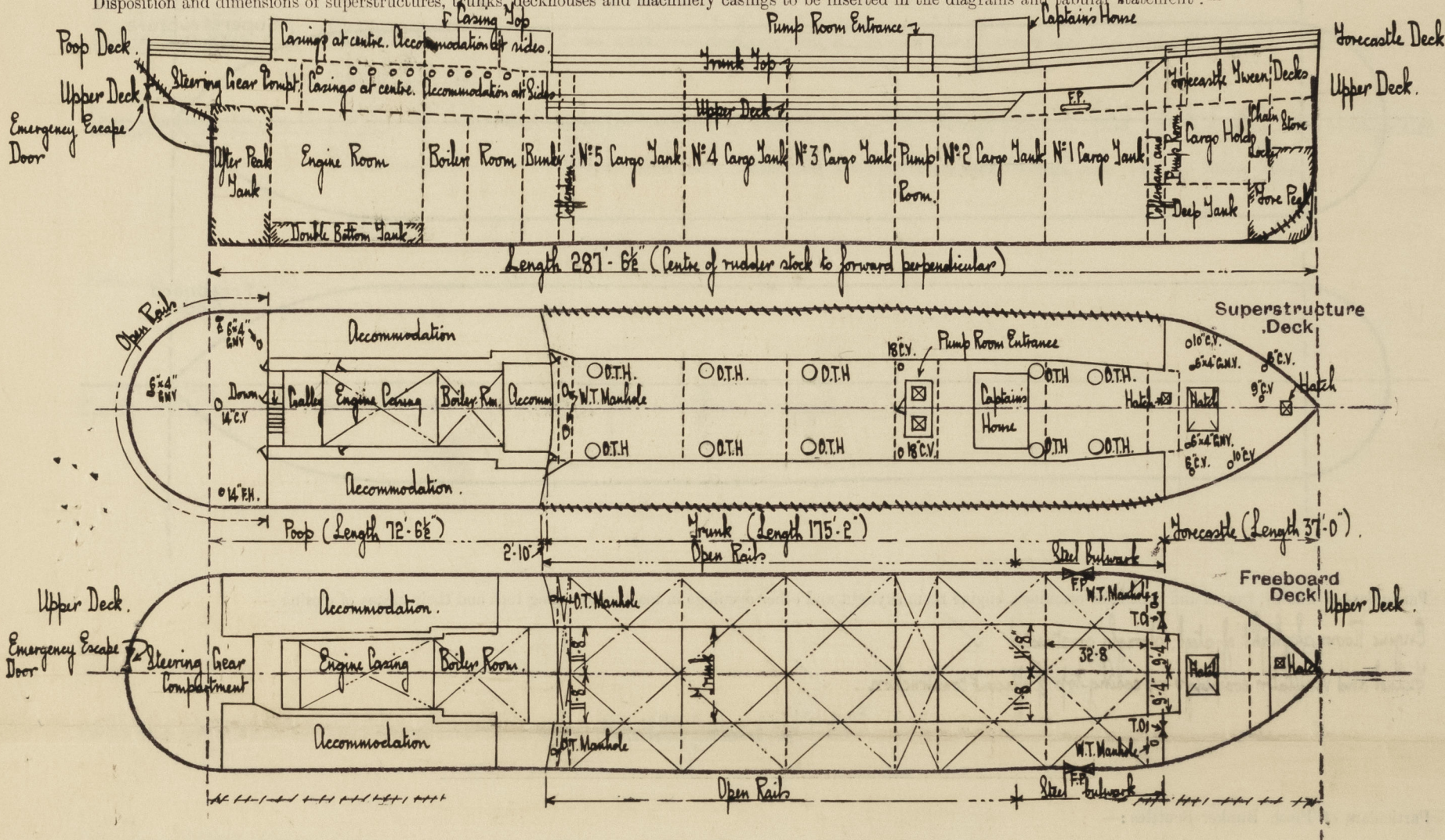


Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(CONDITIONS OF ASSIGNMENT.)

GLASGOW REPORT No. 69122.

Ship's Name EMPIRE JUMNA Port of Survey GRANGEMOUTH
Official Number Surveyor's Signature James M. Winders
Nationality and Port of Registry BRITISH GRANGEMOUTH Date of Survey WHILST BUILDING

Disposition and dimensions of superstructures, trunks, deckhouses and machinery casings to be inserted in the diagrams and tabular statement: --



Particulars of Superstructures, Trunks, Casings, Deckhouses.

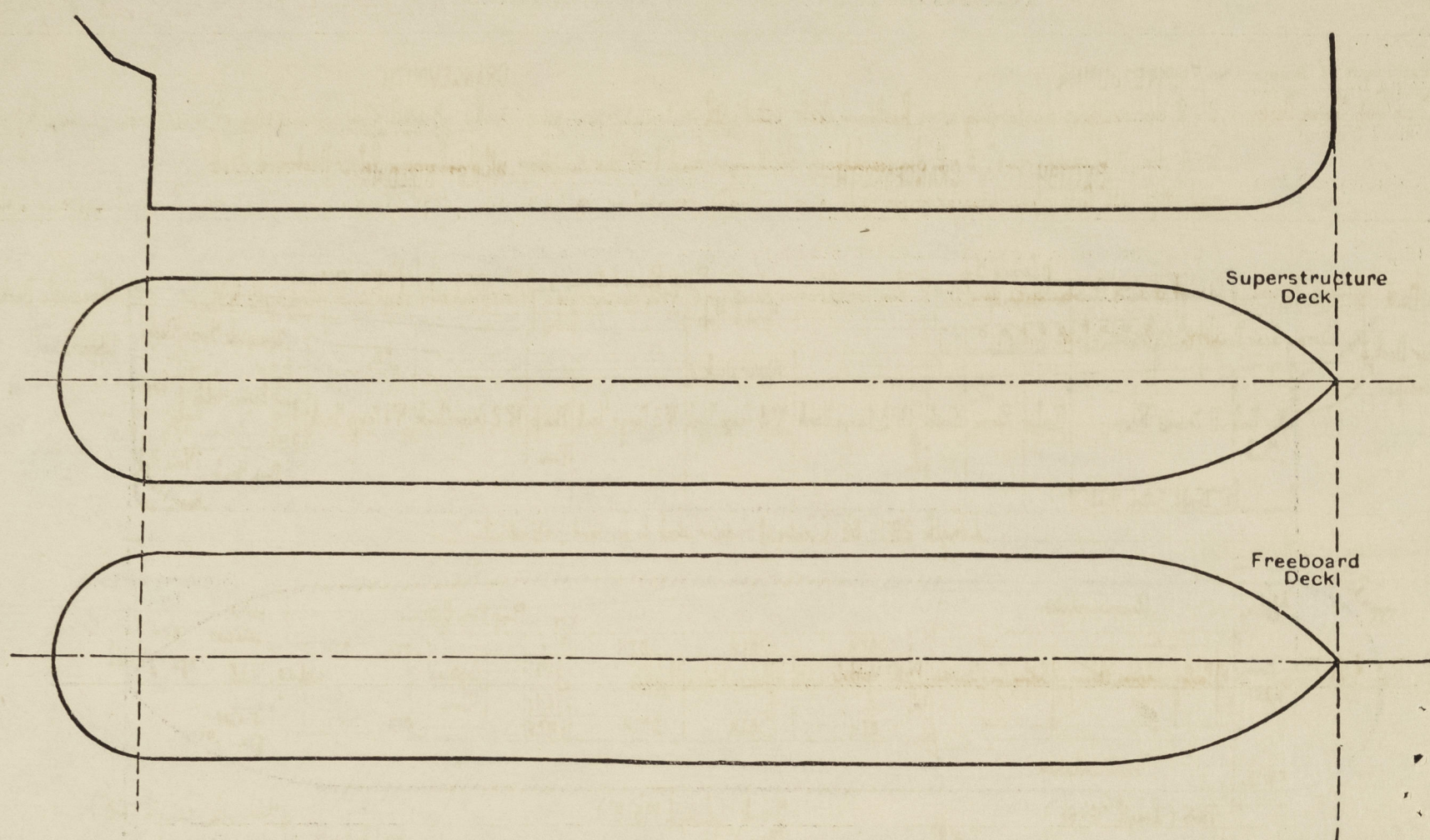
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	34"	34"	6" x 3" x 36" D.A. reverse welded to plating.	24" & 25"	Bracket at top, welded direct to deck at bottom.	Intact.	-	7'-6"
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead	26"	26"	3 1/2" x 3" x 30" riveted, 3" to bulkheads	24"	None	2 at 4'-6" x 3'-0"	18"	6'-6"
Trunk, Aft Side	50"	50"	7 1/2" x 3" x 34" B.A. longitudinal	26"	Bracketed at ends	Intact	-	6'-6"
Trunk, Forward Top	40" and 46"		7 1/2" x 3" x 34" B.A. longitudinal	28"	Bracketed at ends	See details of oil cargo hatches.	-	
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	Intact.
Raised Quarter Deck Bulkhead	
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	2 openings 4'-6" x 3'-0", closed by means of hook bolted plates, bolts spaced not less than 12" apart.
Exposed Machinery Casings on Superstructure Decks	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses on Flush Deck Ships	

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators, companionways, etc., which would affect the seaworthiness of the ship:—



Particulars of fiddle, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:—

Engine Room skylight of steel, strongly constructed. ✓
Funnel and ventilator coamings on casing tops of efficient construction. ✓

Particulars of Flush Bunker Scuttles:—

None. ✓

Particulars of Companionways:—

Pump Room Entrance on Trunk Top of steel, strongly constructed, opening in after end 5'-0" x 2'-0", sill 18", closed by means of hinged watertight door, operated from both sides. ✓
To Poop Tween Deck Accommodation, enclosed in after end of casing opening 5'-0" x 2'-0", sill 18", closed by means of strong hinged wood door, operated from both sides. ✓

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

On Forecastle Deck:— 1-9" dia. coal vent to store, coaming 36" high x 30" thick. ✓
2-6" " " " fore-castle tween decks, coamings 36" high x 30" thick. ✓
2-10" " " " fore hold, coamings 36" high x 32" thick. ✓
2-6" x 4" gooseneck ventilators to fore-castle tween decks, 36" high. ✓
On Trunk Top:— 2-8" dia. coal vents to forward pump room, coamings 36" high x 32" thick. ✓
2-18" " " " main pump room, coamings 36" high x 40" thick. ✓
On Poop Deck:— 4-6" x 4" gooseneck ventilators to magazine and steering gear compartment, 30" high. ✓
1-14" dia. coal vent to steering gear compartment, coaming 30" high x 36" thick. ✓
1-14" dia. French Head vent to steering gear compartment, coaming 36" high x 36" thick. ✓

All ventilators are to Rule requirements and fitted with wood plugs and canvas covers. ✓

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

On Forecastle Deck:— 1-3" dia. air pipe to fore peak tank, 18" high. ✓
2-4" " " " forward deep tank, 18" high. ✓
On Upper Deck:— 4-3" " " " forward and after cofferdams, 36" high. ✓
4-4" " " " bunkers, 36" high. ✓
1-3" " " " settling tank, 36" high. ✓
On Poop Deck:— 2-3" " " " after peak tank, 18" high. ✓

Air pipes to bunkers and settling tank fitted with gauge, remainder fitted with wood plugs and canvas covers. ✓

Particulars of Gangway Cargo and Coaling Ports:—

None.

Particulars of Scuppers and Sanitary Discharge Pipes:—

From Poop Tween Decks:— 2-2" dia. scuppers discharging above freeboard deck, fitted with automatic non-return valve at shell and secured plug at inner end, secured by chain. ✓
2-4" dia. W.C. discharges; 3-2" dia. washbasin discharges and 1-2" dia. scupper, all discharging below freeboard deck, and fitted with G.M. storm valve at ship's side, two automatic non-return valves of G.M., the upper valves in each case being always accessible. ✓

From Captain's House:— 1-4" dia. W.C. discharge and 1-2" dia. washbasin discharge, both discharging below freeboard deck and fitted with G.M. storm valve at ship's side. ✓

From Accommodation on Poop Deck:— 2-4" dia. W.C. discharges discharging above freeboard deck through poop side, fitted with G.M. storm valve at ship's side. ✓
5-2" dia. discharges from washbasins and sink, discharging above freeboard deck through poop side, no valves fitted. ✓

Particulars of Side Scuttles:—

In Poop Side Plating:— 9" dia. side scuttles of strong construction, fitted with efficient deadlights. ✓

Vertical distance of Sill of lowest Side Scuttle above top of keel:— None below freeboard deck. ✓

Particulars of Guard Rails:—

Forecastle Deck:— Open rails 3'-6" high, with 3 rods and stanchions spaced about 4'-6" apart. ✓
Trunk Top:— " " 3'-6" " " 2 " " " 4'-6" " " ✓
After end of Poop Deck:— Open rails 3'-6" high, with 3 rods and stanchions spaced about 4'-6" apart. ✓
Upper Deck:— Open rails from poop front to fore end of Captain's House, 3'-6" high, with 3 rods and stanchions spaced 4'-6" apart. Steel bulwark from fore end of Captain's House to fore-castle front, 3'-6" high, efficiently stayed. 1 freeing port, port and starboard, 5'-0" x 9", 10" above deck edge. ✓

Particulars of Gangways, Ladders, Etc.:—

None. ✓

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well						
Forward Well						

State position of each freeing port { After Well:—
(F. and A. position and height above deck edge) { Forward Well:—

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—

Additional area where sheer is less than standard.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

		HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.								
		Exposed on Upper Deck			Exposed on Superstructure Decks					
Description of Hatchway		O.T. Manholes to Bunkers (2 off 1P and 15.)	W.T. Manholes to forward Cofferdam (2 off 1P and 15.)	Hatch to Peak Store	Hatch to 4 th cle Main Deck	Hatch to Fore Hold	Hatch to Forward Pump Room	Oil Cargo Hatch (10 off)	W.T. Manhole to after Cofferdam (2 off 1P and 15.)	
Dimensions of Hatchway		18" x 13"	18" x 13"	2'-6" x 2'-6"	2'-0" x 2'-0"	8'-0" x 8'-0"	2'-0" x 2'-0"	4'-0" dia.	18" x 13"	
COAMINGS	Height above Deck	10"	10"	9"	9"	30"	9"	10"	10"	
	Thickness	40"	40"	40"	40"	44"	40"	75"	40"	
	Sides									
	Ends									
	Stiffeners									
HATCH BEAMS	Number									
	Spacing									
	Scantling and Sketch									
	Bearing Surface									
FORE AND AFTERS	Number									
	Spacing									
	Unsupported Lengths									
	Scantling* and Sketch									
	Bearing Surface									
HATCH COVERS	Material	Steel 40"	Steel 40"	Wood 2" x 4"	Steel 40"	Steel 40" stiffened with 5 x 3 x 40 D.A. rev.	Steel 40"	Steel 40"	Steel 40"	
	Thickness									
	How fitted									
	Bearing Surface	3/4 dia. studs spaced about 5" apart.	3/4 dia. studs spaced about 5" apart.	3"	W.T. hinged cover. 3/4 dia. lugs and butterfly nuts, spaced 12".	W.T. hinged cover. 3/4 dia. lugs and butterfly nuts, spaced 12".	W.T. hinged cover. 3/4 dia. lugs and butterfly nuts, spaced 12".	O.T. hinged cover. 3/4 dia. lugs and butterfly nuts, spaced about 20" apart.	3/4 dia. studs spaced about 5" apart.	
Spacing of Cleats				18"						
Number of Tarpaulins				1						
*Are wood fore and afters steel shod at all bearing surfaces? Yes, where fitted.										
Are battens and wedges efficient and in good condition? Yes, where fitted.										
Are tarpaulins in good condition and in accordance with rule requirements? Yes, where fitted.										
Are lashings provided in accordance with rule requirements? -										

Particulars of any special features:—

Escape Door in Shell Off. Between Upper and Poop Deck on port side (in steering gear compartment), 21" x 21" clear opening, 40" hinged steel door, watertight, 5 toggles fitted, operated from inside only.

Endorsement at first survey and at surveys for renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown on this form (or as now modified) and are in good condition.



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