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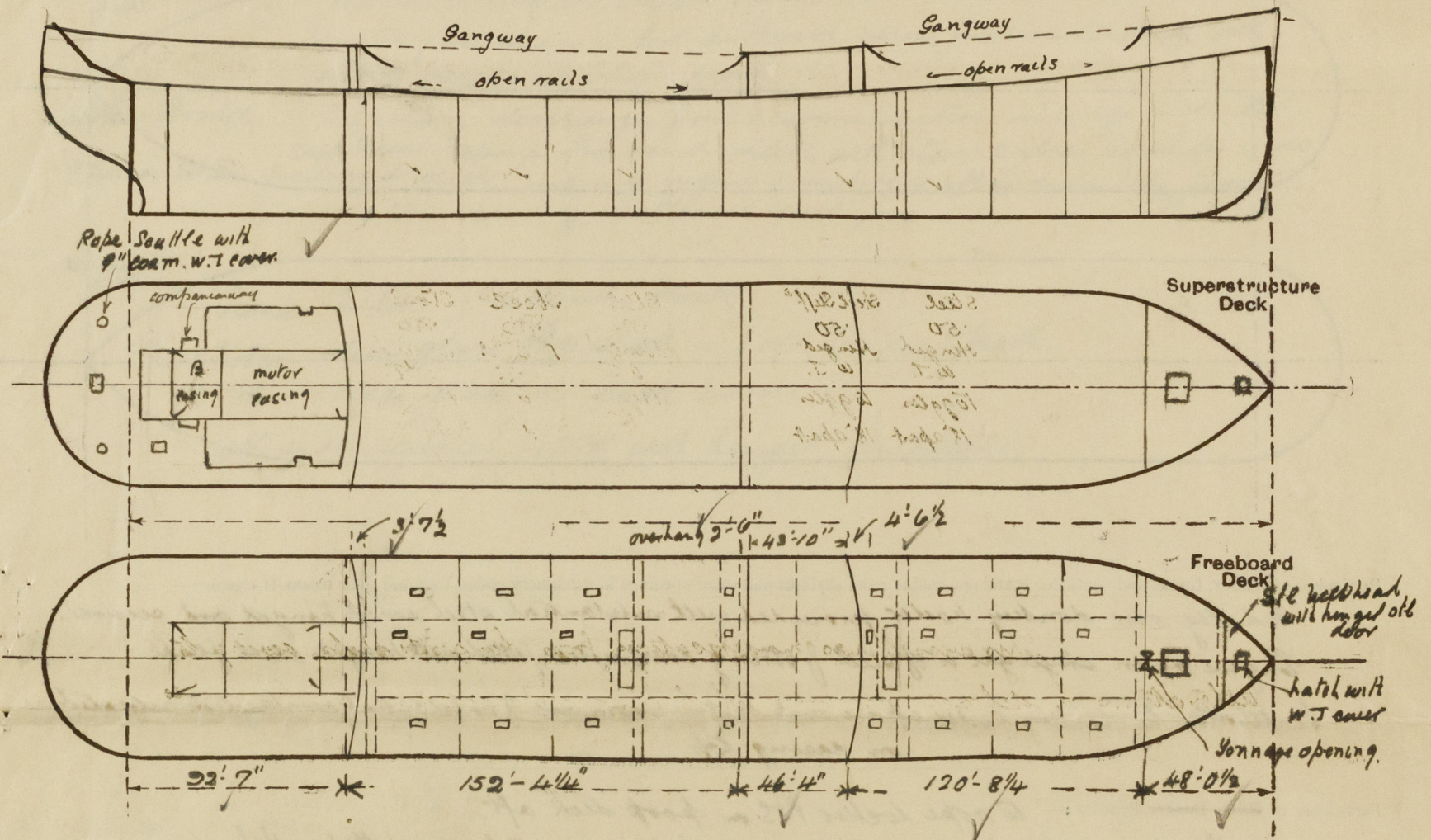
# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

### (CONDITIONS OF ASSIGNMENT.)

Ship's Name *EMPIRE CHAPMAN* Port of Survey *Belfast*  
 Official Number *168512* Surveyor's Signature *Wm Balfour*  
 Nationality and Port of Registry *British Belfast* Date of Survey *during construction.*

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 ...	44	44	10 x 3 1/2 x 7/16 Ba	30"	added top/bottom	20'5"0" x 2'6"	18"	7'-6"
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ...	30	30	4 x 2 1/2 x 5/16 L	30"	none	20'5"3" x 3'0" 10'5"0" x 2'6"	18"	7'-6"
Bridge, Forward Bulkhead ...	44	44	9 x 3 1/2 x 7/16 Ba	30"	welded top/bottom	10'5"8" x 2'6"	18"	7'-6"
Forecastle Bulkhead ...	30	30	4 x 2 1/2 x 3/16 L	30	none	10'5"0" x 2'6" 10'5"0" x 4'0"	18" 13"	7'-6"
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks ...	30	26	3 x 2 1/2 x 5/16	31"	none	where exposed none	✓	7'-6"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...								
Deckhouses on Flush Deck Ships ...								

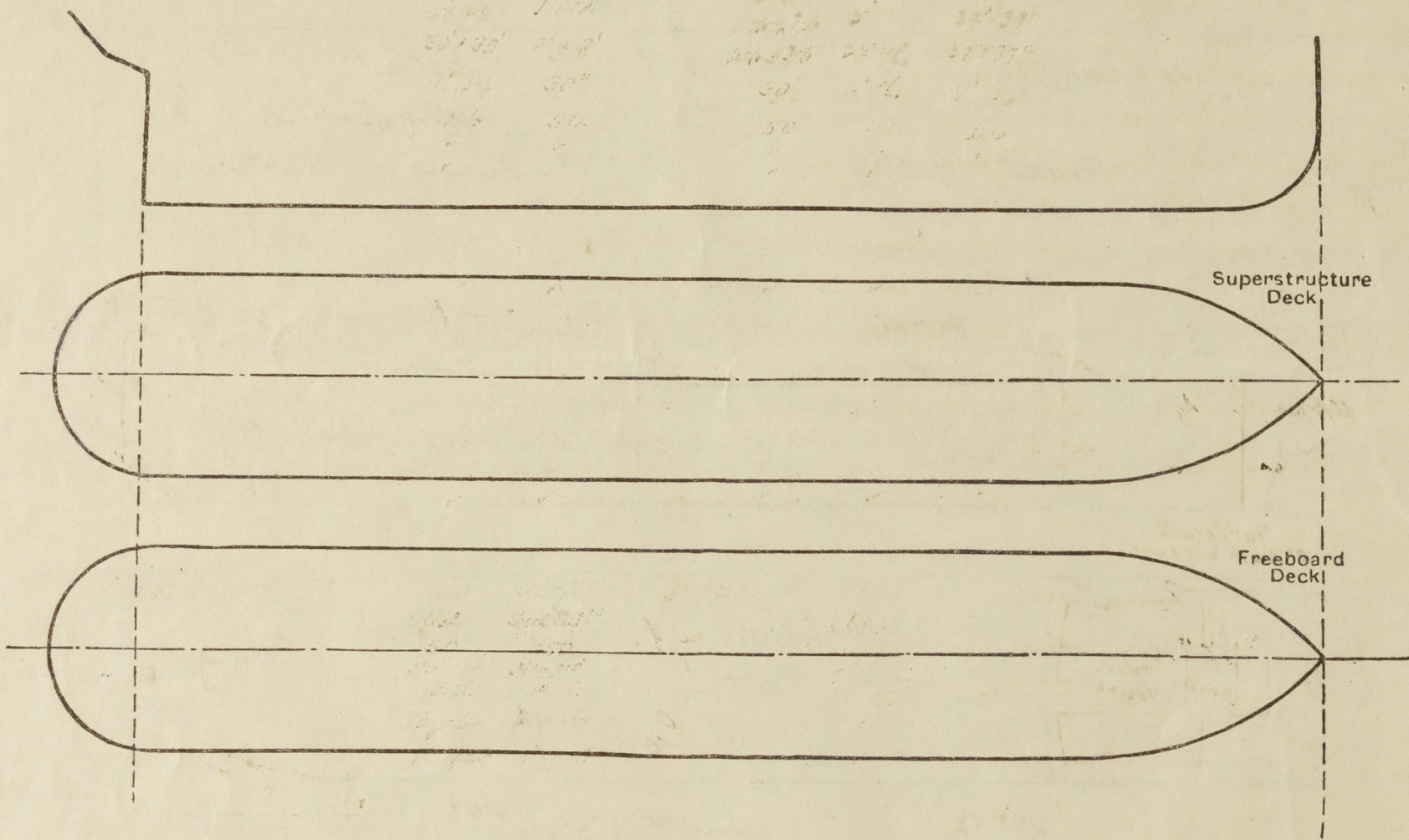
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	Hinged steel W.T. doors operated from both sides ✓
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead ...	one hinged steel W.T. door*, two portable steel stiffened plates secured by hook bolts ✓
Bridge, Forward Bulkhead ...	Hinged steel W.T. door* ✓
Forecastle Bulkhead ...	one hinged steel W.T. door*, one hinged steel door*, one portable steel stiffened plate secured by hook bolts ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Superstructure Decks ...	no openings ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓
Deckhouses on Flush Deck Ships ...	* operated from both sides ✓



# 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:—

Fiddle over donkey boiler provided with substantial steel cover hinged and secured.  
Engine room skylight is of steel of strong construction fitted with hinged steel flaps.  
Ventilators to donkey boiler space and engine room are of substantial construction actuated on casing top.

Particulars of Hatch Door Scuttles:— to rope locker PIS on poop deck aft

The opening has a 8" B.A. coaming with flanged steel cover fitted with hemp packing secured by spindle, strong back and butterfly nut.

Particulars of Companionways:— One door in fore hatchhead to pump room, 60" x 24" sill 18" steel W.T. secured by toggles.  
Access to pump room (cargo) in strong steel deckhouse, one each well, frame 7'6" high .32 plating, stiffened with 6" x 3" x 30 B.A. spaced 27" x 30" door 58" x 30" sill 18" hinged steel W.T. door secured by toggles.  
Two doors at aft end of deck house on poop, in steel companionways give access to foreward deck & below deck 66" x 28" sill 18" hinged steel door with wood frame. All doors manipulated both sides.

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

On forecastle deck, 7 @ 10" dia; 1 @ 8" dia; 2 @ 6" dia. coam. 36" rule thickness to spaces in forecastle and below freeboard deck. 15 N.V. 8" x 4" cast steel 36"  
On bridge deck: 7 @ 6" dia. coaming 30" x 30" to spaces in bridge, fitted with screw down mushroom covers.  
On poop deck: 2 @ 10" dia; 6 @ 6" dia coam. 30" rule thickness to tween decks and steering gear. 15 S.N.V. 8" x 4" cast steel 36" to upper & lower tween decks.  
Fore Well: 2 @ 9" dia. direct port ventilator to pump room efficiently supported.  
Aft Well 2 @ 9" dia. direct port ventilator to pump room efficiently supported.  
Poop deck 6" dia. 8" dia. 10" dia. 12" dia. ventilator coaming 30" to rule thickness to poop tween decks.  
Back ventilators on poop and fore provided with steel W.T. cover or wood plugs & canvas cover S.N.V. provided with wood plugs.

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

On forecastle deck 1 @ 4" to fore peak; 4 @ 4" to deep tank 30" high.  
On freeboard deck fore well 2 @ 3" to forward cofferdam carried up 6ft from fore hatchhead & clipped there to.  
aft well 2 @ 3" to after cofferdam carried up 6ft on poop well & clipped there to.  
On poop deck 2 @ 4" to oil fuel tankers; 2 @ 2 1/2" to after peak; 4 @ 2 1/2" to F.W. tanks.  
1 @ 2 1/2" to meadow tank; 1 @ 2 1/2" to stern comp. all 30" high.  
On casing top Air pipes 2 1/2" to 4" dia from tanks in Eng Space. all 18" above casing top.  
All air pipes provided with canvas cover or wire gauze.

Particulars of Gangway Cargo and Coaling Ports:—

None.

Particulars of Scuppers and Sanitary Discharge Pipes:—

From freeboard deck in wells, scuppers cut through girthwale angles.  
Forecastle space:— outboard scuppers with storm valves at ship's side.  
Bridge deck space: drainage from this space is by means of 1 1/2" holes in after bulk.  
Poop spaces:— scuppers from freeboard deck within poop led overboard with storm valves at ship's side.  
Sanitary discharges led overboard below freeboard deck with storm valves at ship's side.  
Upper Bridge Sanitary discharges from accommodation on bridge deck led overboard above freeboard deck with storm valves at ship's side.  
Spaces below freeboard deck, drain to engine room triger aft or drain into forward storm valves of malleable cast iron.

Particulars of Side Scuttles:—

None below freeboard deck.  
8" x 10" dia clear glass thro' shell in fore, bridge & poop.  
12" dia clear glass in deck houses.  
All side scuttles fitted with hinged deadlights.

Vertical distance of Sill of lowest Side Scuttle above top of keel

None below freeboard deck.

Particulars of Guard Rails:—

On poop, bridge, and forecastle and between bulwarks & wells.  
3'8" high, 3 rails, stanchions 4'6" to 5ft apart.

Particulars of Gangways, Lifelines, etc.:— Fore and aft gangway in wells 7'9" high. Channel strainer

6 x 3 x 3/4 PIS connected by 3 x 3 x 3/8 transverse angles spaced 4'0" apart. Gangway plated .32 with transverse strips welded to plating, with rails, 2 each side. Gangway supported by bracing to deck 4'4 1/2" angle, spaced 8'0" apart and spread 5'3" transversely at deck. Supports braced transversely 3' x 3' x 5/16 angle diagonals and longitudinally by ties 3 1/2 x 3 1/2 x 3/8 angles fitted diagonally in alternate spaces.

## 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 152' 1 1/4"	at poop 15ft at bridge 57ft	3'8"	3'0" x 1'3"	1	over 50% open rails	then rails for 1/2 length of exposed part of weather deck.
Forward Well 120' 8 1/4"	at bridge 16ft fore 27ft	3'8"	3'0" x 1'3"	1	over 50% open rails	

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.									
			- Side Deck -		- Foreward Deck -		- Poop Deck -		
Description of Hatchway	...	...	Fore Peak	Fore Hold		Cargo hanks 27 aft	Cofferdams O.T. Under	2 off	
Dimensions of Hatchway	...	...	30" x 30"	8' x 8'		4'6" x 3'6"	24" x 18"	39" x 39"	
COAMINGS	{	Height above Deck	9" Ba	30"		30"	6" Ch	9" Ba	
		Thickness { Sides	46	50		50	46	46	
		Ends							
		Stiffeners							
		Brackets, Stays	✓	✓		✓	✓	✓	
HATCH BEAMS	{	Number							
		Spacing							
FORE AND AFTERS	{	Scantling and Sketch							
			✓	✓		✓	✓	✓	
		Bearing Surface							
HATCH COVERS	{	Material	Steel	Steel Stiff		Steel	Steel	Steel	
		Thickness	50	50		50	50	50	
		How fitted	Hinged	Hinged		Hinged	Bolted	Hinged	
		Bearing Surface	W.T.	W.T.		O.T.	O.T.	W.T.	
Spacing of Cleats			✓	✓		✓	✓	✓	
Number of Tarpaulins			18 apart	18 apart		15" apart	✓	18" apart	

\*Are wood fore and afters steel shod at all bearing surfaces?  
Are battens and wedges efficient and in good condition?  
Are tarpaulins in good condition and in accordance with rule requirements?  
Are lashings provided in accordance with rule requirements?

Particulars of any special features:— This vessel has modifications from her sister ships, owing to alterations in defence measures which changes her appearance. There is not affect freeboard.

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.