

Lloyd's Register of Shipping.

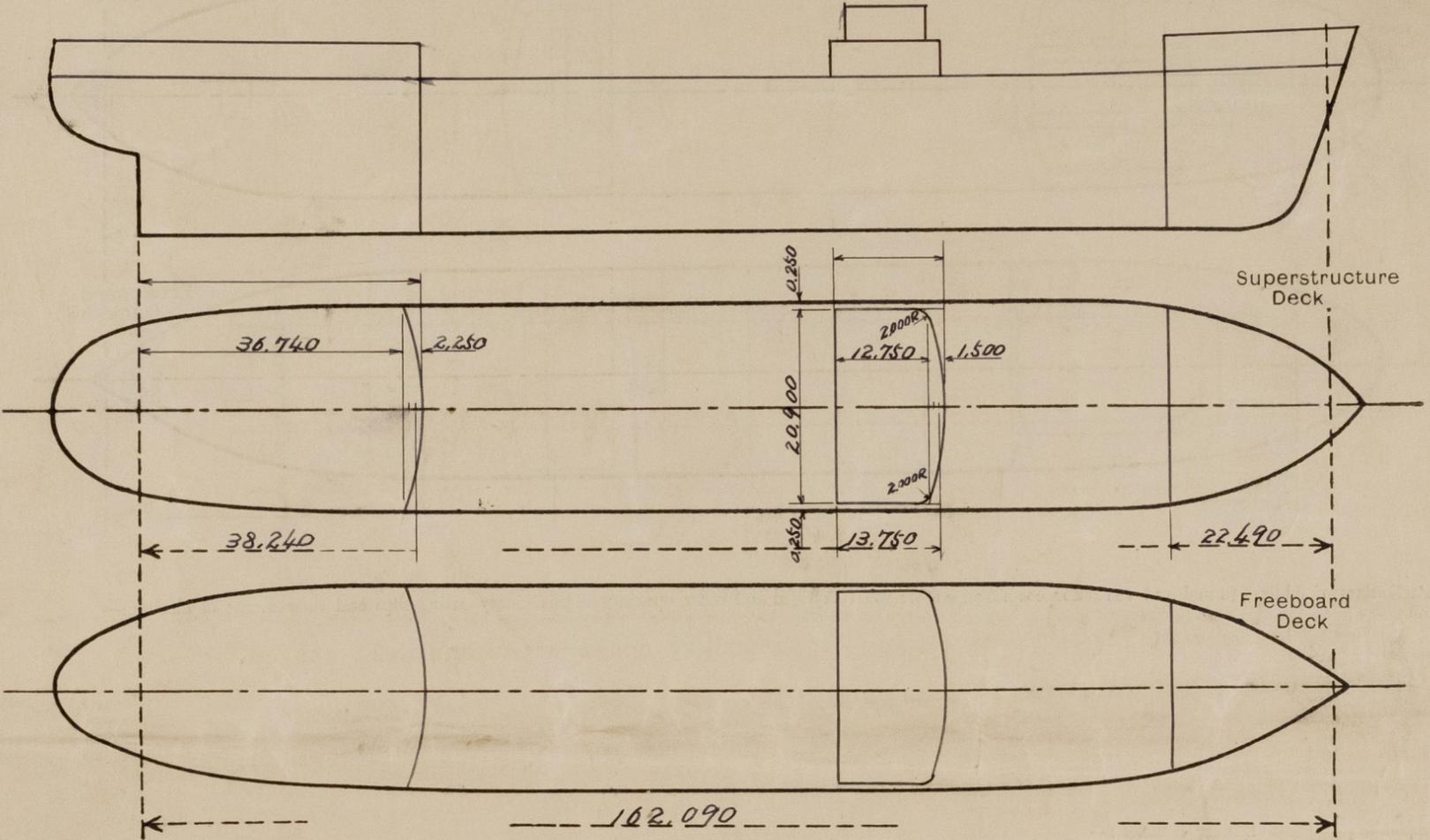
SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.)

Index No. _____
(For London Office only.)

Ship's Name "OTOWASAN MARU" Port of Survey Tamano
 Official Number _____ Surveyor's Signature *G. Young*
 Nationality and Port of Registry Japan - Tokyo. 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.

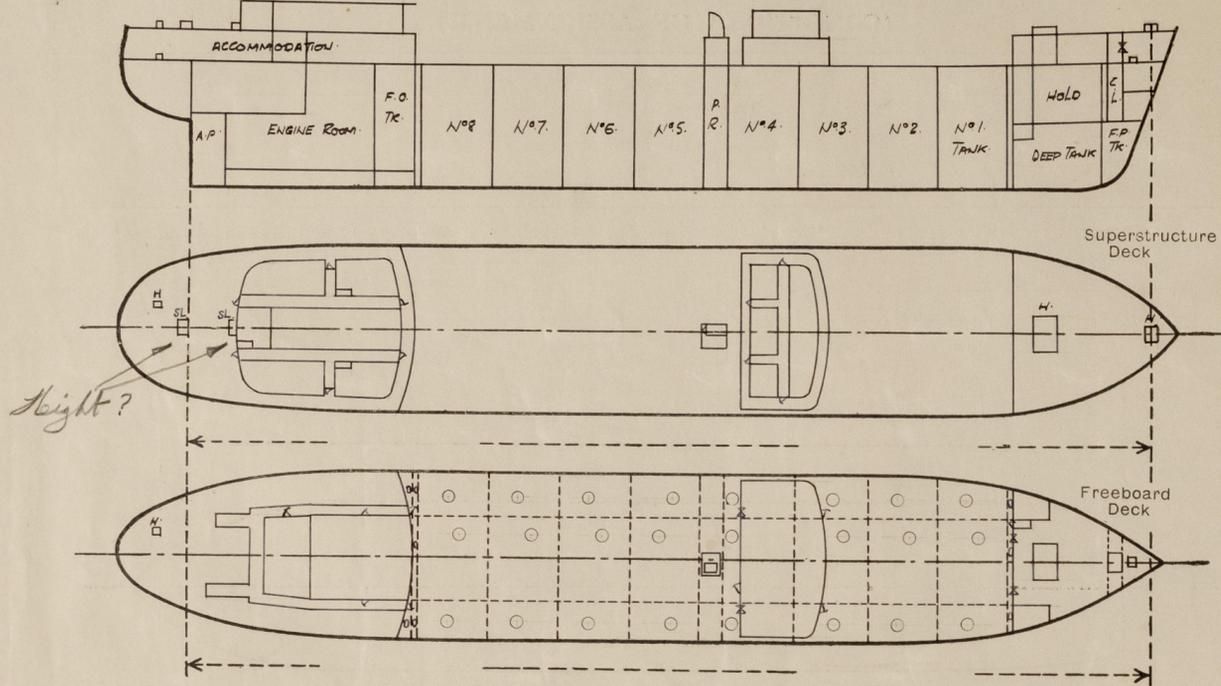
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	11	11.	250 x 90 x 1/4 S I	760.	TOP & BOTTOM BRACKET.	1512 x 812.	630.	2.440.
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ...	7.5	7.5	100 x 75 x 7. I	760.	NONE.	1500 x 1130. 1650 x 700.	460 300.	2.310
Bridge, Forward Bulkhead ...	11.	11.	250 x 90 x 1/4 S I	760.	TOP & BOTTOM BRACKET.	1612 x 712.	380.	2.310.
Forecastle Bulkhead ...	7.5	7.5.	100 x 75 x 7. I	760.	NONE.	1500 x 920 1352 x 662.	460 610.	2.310.
Trunk, Aft ...	✓							
Trunk, Forward ...	✓							
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 ...	9.	7.	100 x 9. F.B.	750.	TOP. BRACKET.	1600 x 600.	300.	2.440.
Deckhouses on Flush Deck Ships ...	11.	SIDES 11. END 9.	150 x 90 x 9 I	750.	BOTTOM CONTINUOUS TOP & BOTTOM BRACKET	1352 x 662.	610.	2285.

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

Poop Bulkhead ...	✓	6m/m hinged steel W/T door capable of being manipulated from both sides.
Raised Quarter Deck Bulkhead ...	✓	
Bridge, After Bulkhead ...	✓	Hinged Steel W/T door capable of being manipulated from both sides. Shifting boards in welding channels.
Bridge, Forward Bulkhead ...	✓	Hinged steel W/T door capable of being manipulated from both sides.
Forecastle Bulkhead ...	✓	Shifting boards in welded channels.
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 ...	✓	Hinged steel door capable of being manipulated from both sides.
Deckhouses on Flush Deck Ships ...	✓	Hinged steel W/T door capable of being manipulated 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 :-

- Funnel and vent coamings on casing top strongly constructed and well stayed.
- Engine skylight of steel with steel hinged flaps, able to be secured.

Particulars of Flush Bunker Scuttles :-

None.

Particulars of Companionways :-

Companion on pump room top, 8m/m plating, 460 coaming with 6m/m steel W/T door 1502x662 capable of being manipulated from both sides.

Steel poop deck house with stairway down, side and end steel doors capable of being manipulated from both sides. *Height of sills 460mm.*

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

Fcle Dk.				Poop Dk.				Bridge Dk.										
2	300	C.V.	915 x 9	coaming	Fcle.	2	300	C.V.	765 x 9	coaming	Up Dk. Passage.	4	150	G.N.	765	coaming		
4	500	C.V.	915 x 11	coaming	Fcle, cargo space.	2	300	C.V.	765 x 9	coaming	Steering eng. Room.	2	300	M.V.	250 x 8	coaming		
2	300	C.V.	915 x 9	coaming	Pump Room	15	150	C.V.	765 x 8	coaming	Accommodation	2	100	F.O.T.	2	100	460 to lip	
3	150	G.N.	915	coaming	WC, paint, lamp st.	3	150	G.N.	765	coaming	Rice, Dry & Wet Prov. Store.	4	130	460 to lip	Cofferdams.	2	100	460 to lip
										Bath & W.C.	1	50	460 to lip	Echo Sounder	1	50	460 to lip	
										Blacksmith Room.					F.O. Tks.	4	80	460 to lip

All C.V. fitted with steel cap & canvas cover.
G.N. fitted with steel screw up cover.
M.V. fitted with steel screw down W/T cover.

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

Fcle. Dk.				Up. Dk.				Poop Dk.			
1	100	460 to lip	F.P.T.	2	80	460 to lip	Bottom Cofferdam	4	100	460 to lip	D.B. Tks.
1	80	460 to lip		10	80	460 to lip	D.B. Tks.	2	100	460 to lip	A.P.T.
1	50	460 to lip	Cofferdam	4	100	460 to lip	D.B. Tks.	2	100	460 to lip	A.P.T.
4	130	460 to lip	F.O.T.	2	100	460 to lip	A.P.T.	2	100	460 to lip	A.P.T.
4	130	460 to lip	Cofferdams.	1	50	460 to lip	Cofferdam.	1	50	460 to lip	Cofferdam.
1	80	460 to lip	Echo Sounder								
4	130	460 to lip									
4	100	460 to lip									
4	80	460 to lip	F.O. Tks.								

Closing Arrangements.

Hinged, steel W/T cover, F.O. Tnk.
Air pipes fitted with gauze.

Particulars of Gangway Cargo and Coaling Ports :-

None

Particulars of Scuppers and Sanitary Discharge Pipes :-

- Fcle space. Scupper and sanitary discharges led overboard below freeboard deck - fitted with storm valves.
- Bridge space. Scupper and sanitary discharges led overboard by sewage system. - fitted with sluice valve and non-return valve.
- Poop space. Scuppers and sanitary discharges led overboard by sewage system, fitted with sluice valve and non-return valve.
1-100 ϕ scupper from ref. store on upper deck led overboard below freeboard, and deck through storm valve.

Particulars of Side Scuttles :-

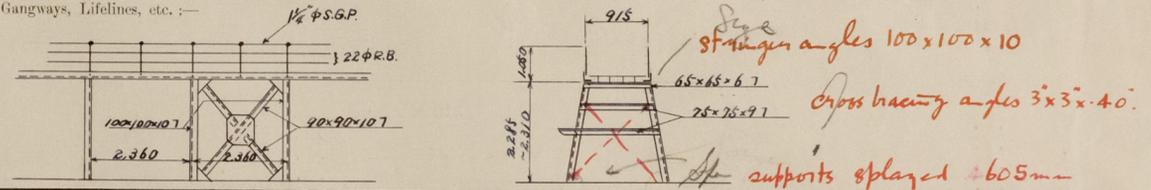
In Fcle bridge and poop deck 300 dia. of substantial construction and fitted with hinged deadlights.

Vertical distance of Sill of lowest Side Scuttle above top of keel 13.742

Particulars of Guard Rails :-

- Fcle Dk. 3 tier rails 1050 high stanchions spaced approx. 1500 apart.
Top rail 1 1/4" S.G.P. Lower rails 22 ϕ R.B.
- Poop Dk. 3 tier rails 1050 high stanchions spaced approx. 1500 apart.
Top rail 1 1/4" S.G.P. Lower rails 22 ϕ R.B.
- Up Dk. 4 tier rails 1200 high stanchions spaced approx. 1500 apart.
Top rail 1 1/2" S.G.P. Lower Rails 22 ϕ R.B.

Particulars of Gangways, Lifelines, etc. :-



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 ...			OPEN RAILS ✓			
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.									
Description of Hatchway	...	...	CARGO HATCH F.CLE DK.	CARGO TANK HATCHES.					
Dimensions of Hatchway	...	...	8.425 x 4.100	1220 D.P.					
COAMINGS	{ Height above Deck ... Thickness { Sides ... Ends ... Stiffeners ... Brackets, Stays ...	...	760	810 ✓					
		...	11	11					
		...	11						
		...	180 x 9.5 B.P.						
			9 BKT.						
HATCH BEAMS	{ Number ... Spacing ... Scantling and Sketch ...	...	/					
		...	/						
		...	/						
		...	/						
			/						
FORE AND AFTERS	{ Number ... Spacing ... Unsupported Lengths ... Scantling and Sketch ...	...	/					
		...	/						
		...	/						
		...	/						
			/						
HATCH COVERS	{ Material ... Thickness ... How fitted ... Bearing Surface ...	...	STEEL	12.5 STEEL					
		...	10	CONVEX					
		...	150 x 8 B.P.	TYPE					
		...	STIFFENER						
Spacing of Cleats	...	...	EYEBOLTS &	EYEBOLTS					
Number of Tarpaulins...	...	...	BUTTERFLY	&					
			NUTS	NUTS					

- *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:—

- Fcle Deck. Rope hatch 1200 x 1100 x 610 x 11 coaming with 9m/m steel W/T cover secured by eyebolts and butterfly nuts. ✓
- Access Hatch on main hatch 1000 x 1100 x 90 x 9 coaming with 10m/m steel w/t cover secured by eyebolts and butterfly nuts. ✓
- Up. Dk. Coff. manhole 450 x 600 x 610 x 11 coaming with 12.5 m/m steel W/T cover secured by eyebolts and butterfly nuts. ✓
- Fcle space hatch 1200 x 1000 x 230 x 10 coaming with 7m/m steel W/T cover secured by eyebolts and butterfly nuts. ✓
- Poop Dk. Rope hatch 500 x 500 x 460 x 11 coaming with 9m/m steel W/T cover secured by eyebolts and butterfly nuts. ✓
- St. Eng. Rm. skylight 1200 x 1500 x 460 x 11 coaming hinged steel W/T cover. ✓
- Skylight 920 x 2000 x 460 x 11 coaming hinged steel W/T cover. ✓



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