

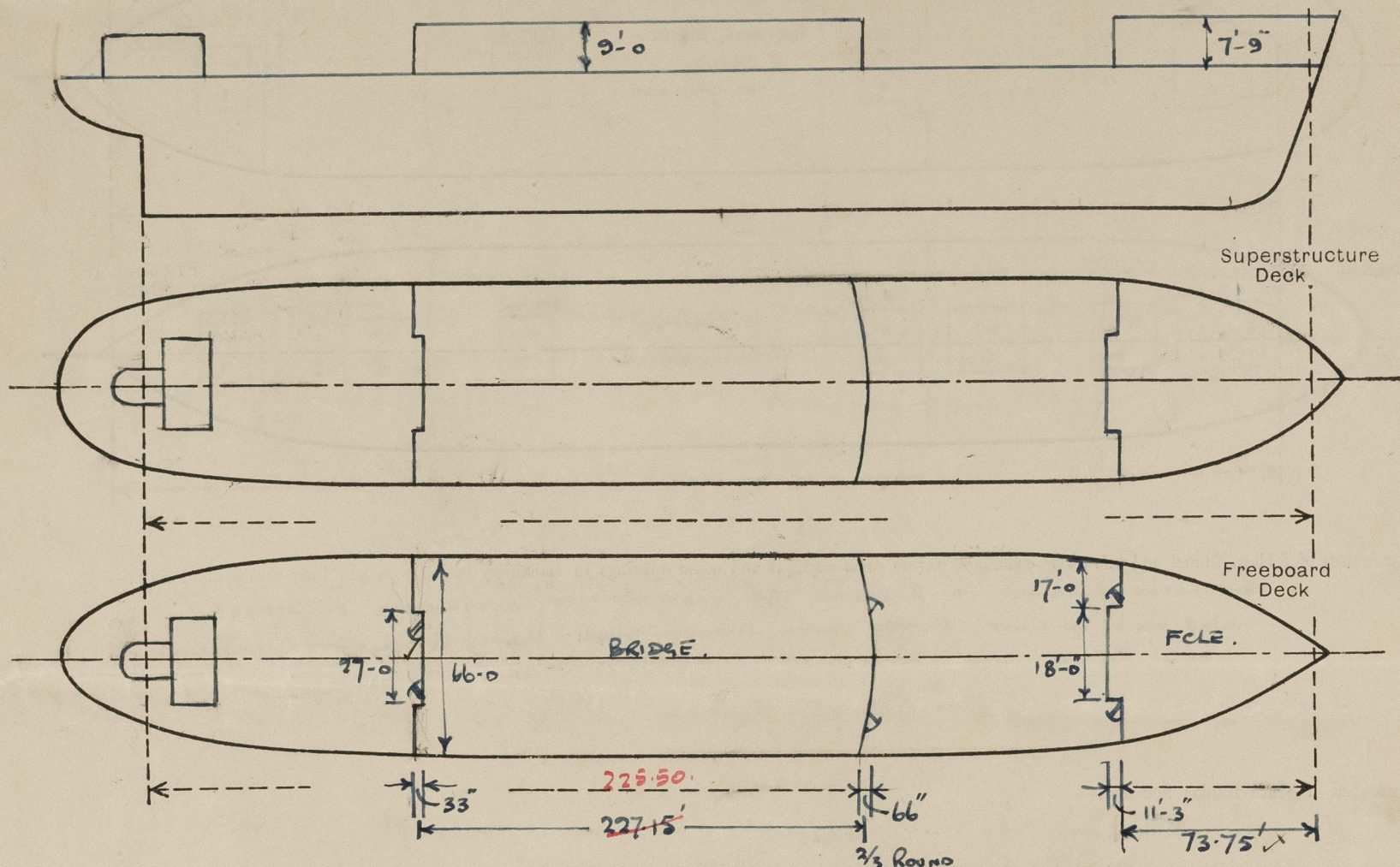
Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.)

Ship's Name HUKAWA MARU. Port of Survey YOKOHAMA
 Official Number 35370 Surveyor's Signature *Reinold Olson*
 Nationality and Port of Registry JAPAN TOKYO Date of Survey AUGUST 1950

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.

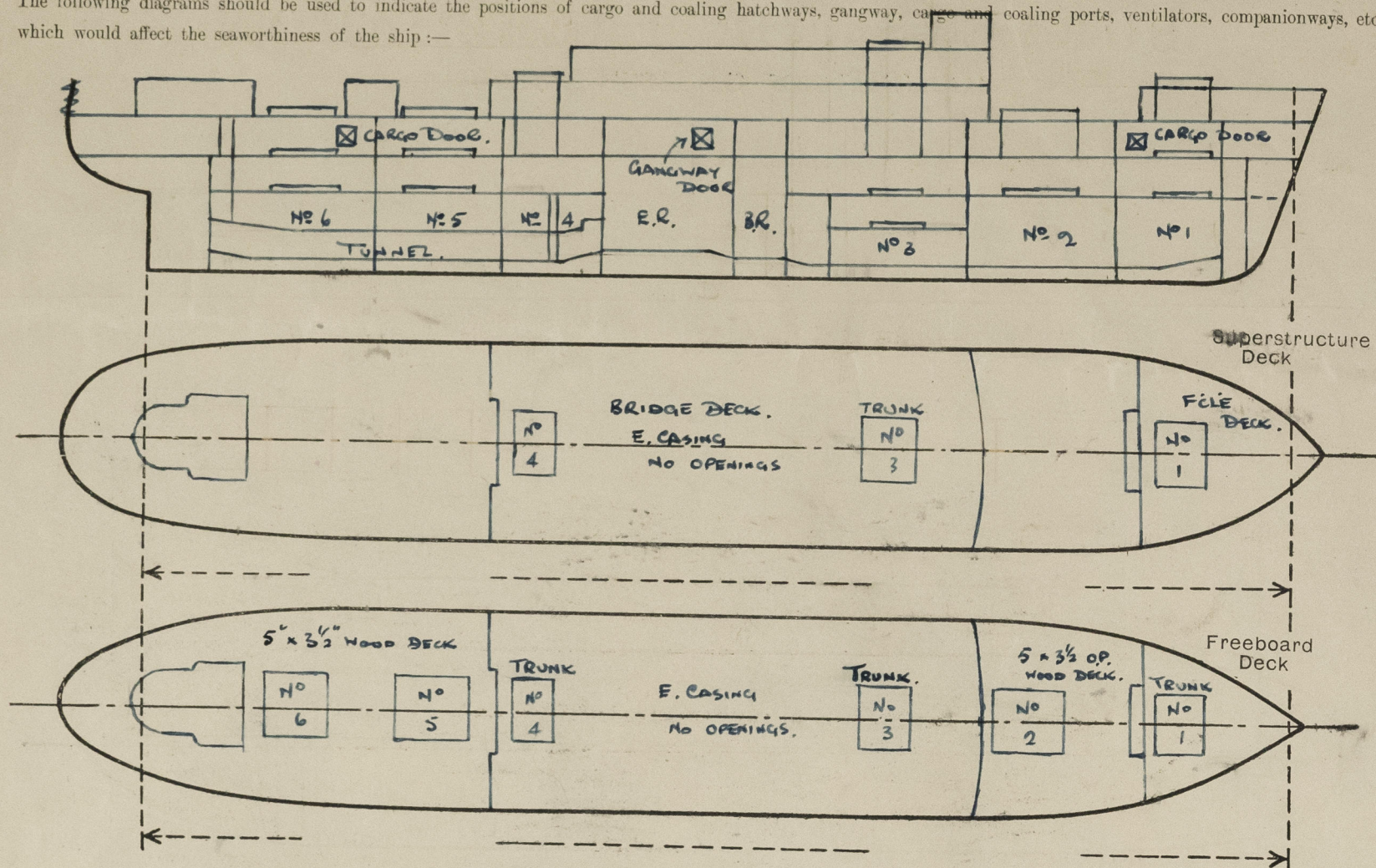
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	/							
Raised Quarter Deck Bulkhead ...	/							
Bridge, After Bulkhead	34	30	4" x 3" x 30' L	2'-10 1/2"	NIL	5'-6" x 2'-9" 20	21"	9'-0" ✓
Bridge, Forward Bulkhead	44	40	9" x 3 1/2" x 54' 8" L	2'-6"	LOGGED	5'-6" x 3'-0" 20	21"	9'-0" ✓
Forecastle Bulkhead	34	30	4" x 3" x 32' L	2'-9"	NIL	5'-3" x 2'-11 1/2" 20	18"	7'-9" ✓
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	/							
Deckhouses on Flush Deck Ships ...		30	4" x 3" x 32' L	2'-9"	NIL. ✓			

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

Poop Bulkhead	-
Raised Quarter Deck Bulkhead ...	-
Bridge, After Bulkhead	HINGED WOOD DOORS OPENING FROM BOTH SIDES. ✓
Bridge, Forward Bulkhead	HINGED W.T. STEEL DOOR OPENING FROM BOTH SIDES. ✓
Forecastle Bulkhead	HINGED WOOD DOORS OPENING FROM BOTH SIDES. ✓
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 ...	HINGED STEEL OR WOOD DOORS OPENING 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:—

VENTILATOR COAMINGS ON E. CASING TOP SUBSTANTIALLY CONSTRUCTED & STAYED.
ENGINE ROOM SKYLIGHT FITTED WITH HINGED STEEL FLAPS PERMANENTLY ATTACHED AND FITTED WITH FASTENING ARRANGEMENTS.

Particulars of Flush Bunker Scuttles:—

NONE

Particulars of Companionways:—

NONE

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

VENTILATOR COAMINGS ON:— UPPER DECK (FREEBD) 36" ABOVE DECK
BRIDGE DECK 30" & 33" "
FORECASTLE DECK 36" "
ALL CLOSED BY MEANS OF WOOD PLUGS & CANVAS COVERS.

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

AIR PIPES ON:— UPPER DECK: 36" TO OPENING
BRIDGE DECK: 18" "
FORECASTLE DECK: 18" "
ALL CLOSED WITH WOOD PLUGS & CANVAS COVERS.

Particulars of Gangway Cargo and Coaling Ports:—

GANGWAY DOORS - 1 P.T. .72" PLATE ADEQUATELY STIFFENED. OPENING 5'-6" x 3'-6" HINGED STEEL DOOR PERMANENTLY ATTACHED & SECURED BY STRONGBACKS (VERT.) AT 1/2 WIDTH ALSO EIGHT SIDE CLAMPS. RUBBER JOINTED.
CARGO DOORS. 2 P.T. .62" PLATE ADEQUATELY STIFFENED. OPENING 3'-0" x 3'-0" HINGED STEEL DOOR PERMANENTLY ATTACHED & SECURED BY TWO VERTICAL STRONGBACKS. RUBBER JOINTED.

Particulars of Scuppers and Sanitary Discharge Pipes:—

ALL SCUPPERS & SANITARY DISCHARGES FROM SPACES BELOW THE FREEBOARD DECK FITTED WITH GEARED CONTROLLED NON-RETURN VALVES. CONTROL ABOVE FREEBOARD DECK. OR DOUBLE NON-RETURN VALVES WHERE ALWAYS ACCESSIBLE. VALVES MADE OF BRONZE THROUGHOUT.

Particulars of Side Scuttles:—

UNDER UPPER DECK:— 10" & 12" DIAM. WITH GALVANISED C.I. HINGED BEADLIGHTS PERMANENTLY ATTACHED, ALSO GAL. C.I. OUTSIDE PLUGS.
UNDER FORECASTLE:— 10" DIAM. AS ABOVE
UNDER BRIDGE:— 14" DIAM. AS ABOVE

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

ABOUT 38'-0"

Particulars of Guard Rails:—

FORECASTLE DECK:— OPEN RAILS. 2" TOP RAIL. WITH 2 RODS. 7/8" DIAM.
BRIDGE DECK:— BULWARK 3'-3" HIGH. .30" PLATE ADEQUATELY STIFFENED.
UPPER DECK:— BULWARK 4'-0" HIGH. .30" PLATE ADEQUATELY STIFFENED 8 x 3 1/2 x 44 BA. TOP BAR.

Particulars of Gangways, Lifelines, etc.:—

HANILLA LIFELINES FITTED.

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 ...	138'-60 157'-2	4'-0	3'-3" x 1'-6"	4	19.50 sq. ft.	19.00 sq. ft.
Forward Well ...	70'-6"	4'-0	3'-3" x 1'-6"	4	19.50 sq. ft.	11.00 sq. ft.

State position of each freeing port ... { After Well:— ALSO FAIRLEAD OPENINGS 5'-9" x 1'-4" AFT. 2 EACH (F. and A. position and height above deck edge) { Forward Well:— AFT SIDE. MOORING PIPES 1 sq. ft. AREA - 2 EACH SIDE ONE FAIRLEAD OPENING AT STERN.

Additional area where sheer is less than standard.

FORWARD MOORING PIPES - 1 sq. ft. AREA. 2 EACH SIDE. NO SHUTTERS OR BARS FITTED.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.													
			UPPER DECK.						BRIDGE DECK		BOAT DECK		
Description of Hatchway			Nº 1	Nº 1	2	3	4	5	6	Nº 3	4	Nº 3	
Dimensions of Hatchway			20'-3" x 18'-0"	20'-3" x 18'-0"	32'-6" x 20'-0"	16'-6" x 18'-0"	13'-9" x 18'-0"	27'-6" x 18'-0"	19'-3" x 18'-0"	16'-6" x 18'-0"	13'-9" x 18'-0"	16'-6" x 18'-0"	
COAMINGS	{	Height above Deck	33"	40	33	40	40	33	33	40	27"	21"	
		Thickness {	Sides	.44	.44	.44	.40	.44	.44	.44	.44	.44	.44
			Ends	.44	TRUNK	.44	TRUNK	TRUNK	.44	.44	.40	.44	.44
		Stiffeners ...	EXP. SIDE	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA	7 x 3 x 40 BA
Brackets, Stays			3-6 BA	5-6 BA	5-6 BA	5-6 BA	5-6 BA	5-6 BA	5-6 BA	5-6 BA	5-6 BA	5-6 BA	
HATCH BEAMS	{	Number	3	6	6	5	3	2	2	2	2	2	
		Spacing	5'-0 3/4"	4'-7 23/32"	4'-7 23/32"	4'-7"	4'-9 3/4"	4'-7"	5'-2"	5'-2"	5'-2"	5'-2"	
		Scantling and Sketch	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	
			16 x 36	17 1/2 x 36	16 x 36	15 x 32	15 x 32	15 x 32	15 x 32	15 x 32	15 x 32	15 x 32	
Bearing Surface			4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	
FORE AND AFTERS	{	Number	3	3	3	3	3	3	3	3	3	3	
		Spacing	5'-0 3/4"	4'-7 23/32"	4'-7 23/32"	4'-7"	4'-9 3/4"	4'-7"	5'-2"	5'-2"	5'-2"	5'-2"	
		Unsupported Lengths	16 x 36	17 1/2 x 36	16 x 36	15 x 32	15 x 32	15 x 32	15 x 32	15 x 32	15 x 32	15 x 32	
		Scantling* and Sketch	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	
Bearing Surface			4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44	4 x 3 x 44		
HATCH COVERS	{	Material	O.P. ✓										
		Thickness	3" ✓										
		How fitted	F x A ✓										
		Bearing Surface	2 1/2" Min. ✓										
Spacing of Cleats			24" Max. ✓										
Number of Tarpaulins			3 ✓										
*Are wood fore and afters steel shod at all bearing surfaces? YES ✓													
Are battens and wedges efficient and in good condition? YES ✓													
Are tarpaulins in good condition and in accordance with rule requirements? YES ✓													
Are lashings provided in accordance with rule requirements? YES ✓													

Particulars of any special features:—

EXISTING J.C. FREEBOARDS:—

VERTICAL DISTANCE FROM TOP OF DECK LINE:— 131.8"

F.W. ALLOWANCE ABOVE CENTRE OF DISC:— 7.9"

NOTE:— PROVISIONAL L.L. CERTIFICATES HAVE BEEN ISSUED BASED ON THE ABOVE FREEBOARDS. (SCANTLING DRAUGHT) COPY OF THIS CERTIFICATE, ALSO VERIFICATION FORM, FORWARDED TO LONDON.

L.L. CERTIFICATES REQUIRED:—

ORIGINAL } OWNERS
 1 COPY }
 1 COPY SCAP
 1 COPY JAP. GOVERNMENT
 1 COPY L.R. (JAPAN) RECORDS.

ALL CERTIFICATES TO BE FORWARDED TO KOBE OFFICE.



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