

$$\text{Correction} = \frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.72}{4} (1 - .799) = -.04$$

Deduction = $40.93 + 75.17 = - 30.77$ ✓

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS																			
Description of Hatchway		1	2	3	4	5	2A	3A	4A	6	COAL MATCH	TO STORE	CH. LK.	IN BR. SP. 12 OFF.	TO C. B.W. SP. 12 OFF.	IN BR. SP. 12 OFF.	TO C. B.W. SP. 12 OFF.	IN BR. SP. 12 OFF.	TO C. B.W. SP. 12 OFF.
Dimensions of Hatchway		31'6"	27'0"	20'3"	31'6"	29'3"	27'0"	20'3"	31'6"	29'3"	27'0"	20'3"	31'6"	29'3"	27'0"	20'3"	31'6"	29'3"	27'0"
COAMINGS	Height above Deck	30	9"	9"	9"	30	30	30	30	18	6"	9"	9"	9"	30	30	30	30	30
	Thickness Sides	1/4"	8A	8A	8A	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Stiffeners	9"BA	✓	✓	✓	7"BA	7"BA	7"BA	9"BA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Brackets, Stays	3	✓	✓	✓	2	2	2	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HATCH BEAMS	Number	6	5	3	6	5	5	5	3	6	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Spacing	4'-6"	4'-6"	5'-0"	4'-6"	4'-6"	4'-6"	5'-0"	4'-6"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Scantling and Sketch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Bearing Surface	3 1/2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FORE AND AFTERS	Number	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Spacing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Unsupported Lengths	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Scantling* and Sketch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HATCH COVERS	Material	W.P.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Thickness	2 1/2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	How fitted	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Bearing Surface	3 1/2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spacing of Cleats		24	24	24	24	24	24	24	24	18	24	24	18	13	24	23	24	24	24
Number of Tarpaulins		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Particulars of fiddle, funnel and ventilator coamings:— FIDDLE GRATINGS COVERED BY STRONG STEEL HINGED COVERS.
FUNNEL + FIDDLE VENTS IN EFFICIENT CONDITION.
ENGINE SKYLIGHT OF STEEL STRONGLY CONSTRUCTED.

Particulars of Flush Bunker Scuttles:— 2 ON BRIDGE DECK WITH SCREW JOINTS, OF CAST STEEL, NO ATTACHMENT CHAINS.

Particulars of Companionways:— NONE.

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

FILE DECK	1 VENT. 8 1/2 DIA. x COAMING 9" x 38" TO STORE. FOR	ALL VENTS ARE IN ACCORDANCE WITH RULES AND HAVE WOOD PLUGS AND CANVAS COVERS.
BRIDGE DECK	1 " 17 1/2 " " 36" x 38" TO HOLD.	
AFT WELL	1 " 17 1/2 " " 30" x 38" TO HOLD + BKR. SPACES.	
POOP DECK	1 " 6 " " 36" x 25" TO TUNNEL.	

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

FREEBOARD DECK UNDER FILE	1 AIR PIPE 9" TO LIR 10 1/2" TO BOW = 2 1/2 DIA. TO DB.	NO ARRANGEMENTS FOR CLOSING AIR PIPES.
BRIDGE DECK (AIR + SOUND)	1 " 9 " " 11 " " 2 1/2 " TO DB.	WOOD PLUGS PROVIDED
	2 " 19 " " 22 " " 2 1/2 " TO DB.	
	2 " 20 " " 23 " " 2 1/2 " TO DB.	
	2 " 20 " " 23 " " 3 " TO DB.	
	2 " 25 " " 28 " " 2 1/2 " TO DB.	
POOP DECK	1 " 9 " " 10 1/2 " " 2 1/2 " TO DB.	

Particulars of Gangway Cargo and Coaling Ports:— NONE.

Particulars of Scuppers and Sanitary Discharge Pipes — SCUPPER PIPES FROM BRIDGE SPACE HAVE STORM VALVES ON SHIPS SIDE AND NO PLATE COVERS OVER OPENING IN BRIDGE.
LAV. DISCHARGE FOR BELOW POOP DECK HAVE STORM VALVES OF SUBSTANTIAL CONSTRUCTION FITTED ON SHIPS SIDE.
LAV. DISCHARGES ABOVE POOP HAVE STORM VALVES ON SHIPS SIDE OF SUBSTANTIAL CONSTRUCTION.

Particulars of Side Scuttles:— SIDE SCUTTLES TO CREW SPACE FORWARD HAVE HINGED DEADLIGHTS OF SUBSTANTIAL CONSTRUCTION.
ALL SIDE SCUTTLES OF SUBSTANTIAL CONSTRUCTION.

Particulars of Guard Rails:— FILE DECK 2 TIER 3'-3" HIGH STANCHIONS SPACED ABOUT 5'-6" APART.
BRIDGE DECK 3 TIER 3'-3" " " " 5'-0" " "
POOP DECK 2 TIER 3'-3" " " " 5'-0" " "

Particulars of Gangways, Lifelines, etc.:— NO ARRANGEMENTS. (CREW FOR?)

Lifelines fitted in both wells.

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	40'-6"	4'-0"	3'-11" x 1'-6"	2 OFF	11.76	10.6
Forward Well	33'-9"	4'-0"	3'-11" x 1'-6"	2 OFF	11.76	9.89

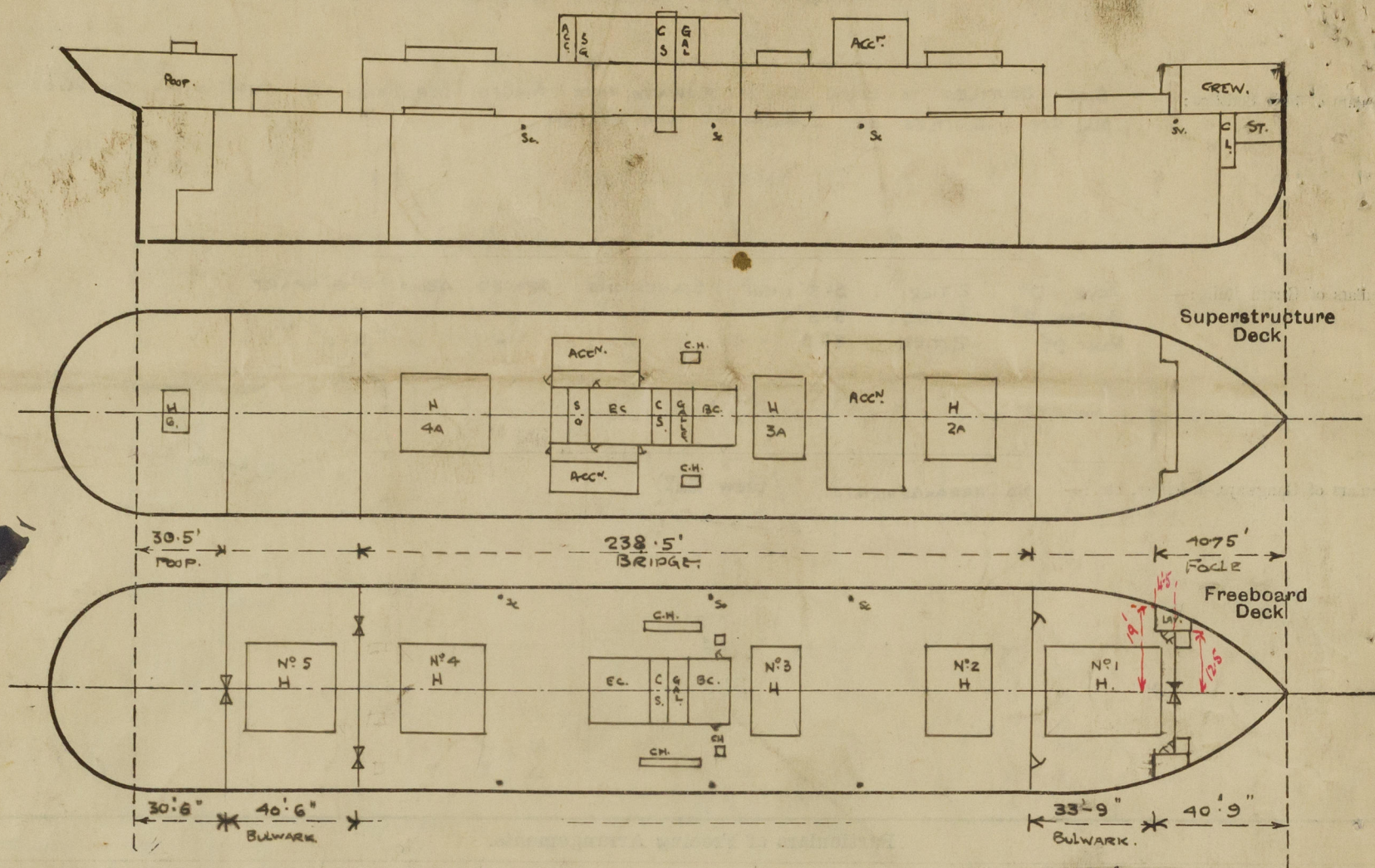
State position of each freeing port ... After Well:— 1st 6'-1" : 2nd 22'-6" AFT OF 8.8 HO. 12' ABOVE DECK. 1 HORI. BAR.
(F. and A. position and height above deck edge) Forward Well:— 1st 7'-8" : 2nd 17'-6" FOR. " " 12' " " 1 HORI. " "
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—
Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	38	38	6 1/2 x 3 x 36 L	30	LUG.	5'-10" x 3'-11"	18	-
Raised Quarter Deck Bulkhead	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, After Bulkhead	28	28	3 x 3 x 28 L	30	-	5'-9" x 4'-0"	18	-
Bridge, Forward Bulkhead	40	40	9 x 3 x 42 BA	30	LUG. TOP + BOT.	5'-0 1/2" x 3'-1"	18	-
Forecastle Bulkhead	-	28	3 x 3 x 24	26	-	5'-3" x 3'-2"	18	-
Trunk, Aft	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Superstructure Decks	34	34	3 x 3 x 30	31"	-	4'-11" x 2'-0"	18	7'-3"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	28	26	3 x 3 x 30	31"	-	1'-6" x 1'-9"	30	-
Deckhouses on Flush Deck Ships	✓	✓	✓	✓	✓	✓	✓	✓

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

Poop Bulkhead	3" WEATHER BOARDS IN RIVETTED CHANNELS FULL HEIGHT.	✓
Raised Quarter Deck Bulkhead	-	✓
Bridge, After Bulkhead	3" WEATHER BOARDS IN RIVETTED CHANNELS FULL HEIGHT.	✓
Bridge, Forward Bulkhead	ST. HINGED DOORS. SECURED BY SNUGS BROADEN PLATING. OPERATED BOTH SIDES (NOTE)	✓
Forecastle Bulkhead	2 1/2" WEATHER BOARDS IN RIVETTED CHANNELS FULL HEIGHT.	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	-	✓
Exposed Machinery Casings on Superstructure Decks	ORDY ST. HINGED DOORS. OPERATED ONE SIDE ONLY. STAIR: BOTH SIDES FULL SIDE.	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	STEEL HED DOOR TO FIDDLEY } OPD ONE SIDE ONLY. FROM BUNKER SPACE.	✓
Deckhouses on Flush Deck Ships	-	✓

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



$$\begin{aligned} & \text{Eft. Hda } 40.75 - \frac{4.5 \times 25}{19} \\ & = 40.75 - 2.95 \\ & \text{Ans } 37.8 \end{aligned}$$

State any special features in the construction of the ship:— VESSEL EXAMINED AFLOAT.

TIMBER ASSIGNMENT PARTICULARS.

- RULE 88. NOS 2, 3, & 4 TANKS LONGLY SUBDIVIDED.
- RULE 89. BULWARKS IN WELL. 48' HIGH. 6" RAIL (BULB ANGLE) SUPPORTS. 7" BULB PLATE SPACED ABOUT 6' 0" APART.
- RULE 90. STEAM STEERING GEAR AMIDSHIPS CHAINS AND RODS LED ALONG BRIDGE DECK ACROSS WELL TO POOP NOT PROTECTED.
- NO HAND GEAR AFT. RELIEVING TACKLE FITTED.
- RULE 91. NO EYEBOLTS OR SOCKETS FOR UPRIGHTS FITTED.

Builder's name and yard number. LITHGOWS LTD. PORT GLASGOW.

Names of sister ships.

Owners. GRYFEVALE S.S. CO. LTD.

Fee £ 12 : 15 : 0 Received by me



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