

LLOYD'S REGISTER OF SHIPPING.

CLASSIFICATION SOCIETY

RECOGNISED BY THE FRENCH GOVERNMENT DECREE OF THE 5TH SEPTEMBER, 1908.

SURVEYS FOR FREEBOARD.—FRENCH VESSELS.

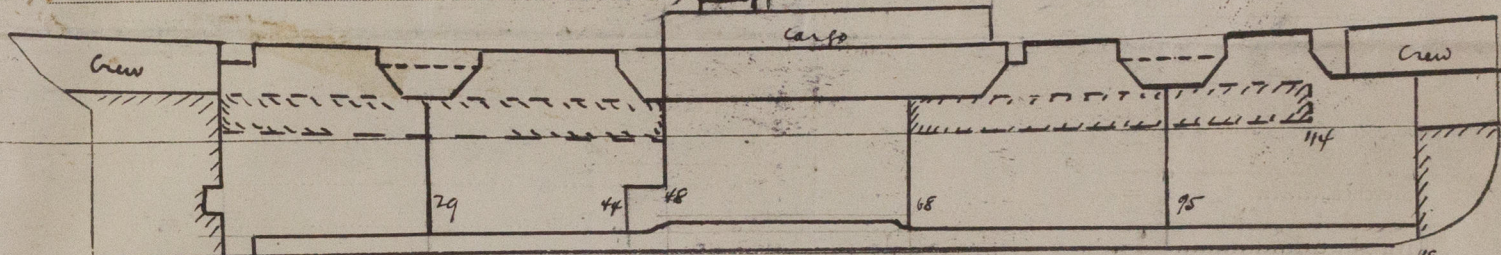
(All measurements to be given in the Metric system.)

Ship's Name. KERVEGAN	Port of Registry. <i>Nantes</i>	Date of Build. <i>1922</i>	Particulars of Classification. + 100 A1.	Port of Survey <i>Nantes</i>
Number in Register Book <i>74.307</i>	Where Built. <i>Nantes</i>		Date of Survey <i>During Construction and 21-26 Mar 1927</i>	Name of Surveyor <i>Webster and G. Létac</i>
Owners <i>Soc. An. des Chaux et de l'Acier</i>			Type of vessel <i>Pop. Bridge & File with side tanks</i>	
Date of request for assignment			Number of freeboard certificate <i>B/V. (1.0/5 m.) now expired</i>	
Duration of time assigned to the freeboard. (In the case of unclassified vessels.) <i>As built with dual LR & BV. class but BV. class & 70% now dropped by Owners</i>				

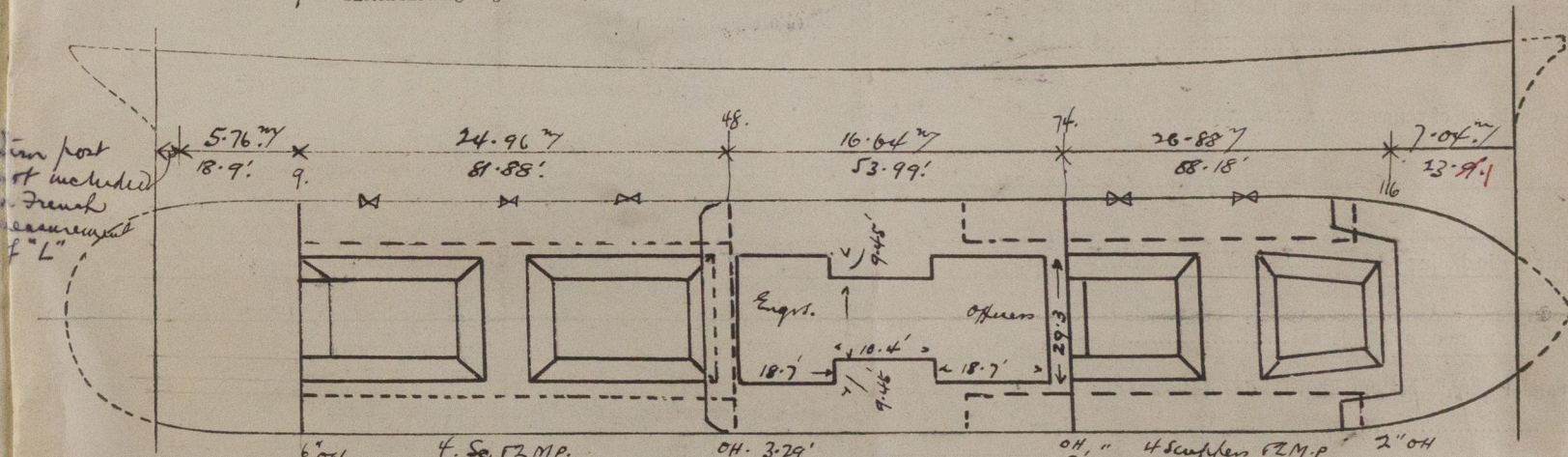
Particulars taken from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	Under Deck Tonnage, including Peaks	Tonnage of 'tween decks if tonnage measured below second deck.
	<i>270.3</i>	<i>29.5</i>	<i>19.6</i>	<i>1.788 T.</i>	<i>none</i>

PARTICULARS TAKEN ON BOARD.

Length of Ship on Loadline <i>81.28 m</i>	Sheer of Upper or Spar deck. (Main deck in Awning deck vessels.)
Built Breadth <i>12.0 m</i>	At Stem <i>1.900 m</i> t_1 <i>74.8"</i>
Extreme Breadth to outside of planking or plating <i>11.96 m</i>	" $\frac{1}{8}$ length from Stem <i>890.800 m</i> t_2 <i>31.49" 35.04"</i>
Breadth at Gunwale amidships <i>7.0 m</i>	" " Sternpost <i>500.7 m</i> t_7 <i>19.68"</i>
Built Depth to Upper deck <i>22.95 m</i>	" Sternpost <i>1.000 m</i> t_8 <i>39.38 37"</i>
" " Main " (Spar and Awning deck vessels)	" front of Bridge (Well deck vessels) <i>0</i> t_6
Use of floor (Iron or Steel sailing ships only)	Fall in sheer abaft amidship <i>✓</i> t_0
Top of inner bottom at margin below level line at centre (if any)	Distance of lowest point of sheer abaft midship section <i>at midships</i>
Use " " " above " " "	Round of Upper deck beam <i>240 mm</i> <i>9.4"</i>
Content of ceiling fitted on inner bottom <i>all over</i>	" Main " " (Awning deck vessels.) <i>✓</i>
Height of 'Tween decks in Spar and Awning deck vessels measured from top of beam to top of beam at side <i>2.37 m</i> <i>7.54"</i>	Thickness of sparring or side ceiling <i>none</i>
Depth of Frame <i>230 mm</i> <i>9"</i>	



9 Sketch showing height of floors, arrangement and height of double bottom, arrangement of peaks and watertight bulkheads.



Sketch showing the arrangement of the deck erections and position of end and intermediate bulkheads in relation to the deck and sides of the superstructures, dimensions of hatchways, engine and boiler openings, tonnage openings in Shelter deck, deckhouses and continuous trunks and turrets. The sketch must also indicate the extent of wood sheathing on iron or steel deck.

Dimensions of the Deck erections.	Forecastle	Length = $7.04 + 1.92 = 2.309 + 6.3'$	Height = $2.15 m = 7.05'$
	Bridge	" = $16.64 m = 54.99' 54.6'$	" = $2.30 = 7.54'$
	Poop	" = $5.76 m = 18.9'$	" = $2.15 = 7.05'$
	Raised Quarter Deck	" = $✓$	" = $✓$
	Partial Awning Deck	" = $✓$	" = $✓$

DETAILS OF CONSTRUCTION OF THE END BULKHEADS OF THE DECK ERECTIONS.

	Forecastle.	Bridge, fore end.	Bridge, after end.	Poop.	Raised Quarter Deck.
Thickness	Coaming $1-5\frac{1}{2}'' \times .34$	$1-6'' \times .4''$	$1-6'' \times .4''$	$1-6'' \times .4''$	
	Other Plates $.28''$	$.33''$	$.33''$	$.34''$	
Vertical Stiffeners	Scantlings $OA. 5 \times 3 \times .52$	$Ch 6.8 \times 2.8 \times .35$	$Ch 6.8 \times 2.8 \times .35$	$Ch 6.9 \times 3.1 \times .35$	
	Spacing $26''$	$29''$ and 2 webs	$29\frac{1}{2}''$	$29\frac{1}{2}''$	
Spacing of Vertical Brackets	Top & Bottom each $clippers$	do	do	do	
Horizontal Stiffeners	Scantlings $✓$	$✓$	$✓$	$✓$	
	Number $✓$	$✓$	$✓$	$✓$	

Remarks:—

CALCULATION OF

FREEBOARD.

PARTICULARS NECESSARY FOR USE WITH THE TABLES.

Moulded depth
 Correction for iron uncovered deck if required.....
 „ „ rise of floor if required
 Moulded depth to be used with Tables $c =$

Breadth extreme to outside of planking or plating $B =$

	In Ship.	Rule.
Thickness of planking		
Depth of framing		
Thickness of ceiling or sparring		
Total.....		
Difference.....		$2d =$

Breadth for the co-efficient of tonnage $(B - 2d) =$

Depth of Hold (Registered) $c =$

For Steamers add thickness of ceiling if necessary $h =$

..... $c + h =$

Gradual mean shear at ends. $t_m = \frac{t_2 + t_7}{1.1} = \frac{+}{1.1} =$

Standard mean shear. $t = 8.3 L + 255 = 8.3 \times + 255 =$

Difference..... $t_m - t =$

Divide by 3..... $= s =$

Correction for drop of inner bottom at margin below level at middle line if necessary..... $=$

Depth for the co-efficient of tonnage $D =$

Under deck tonnage including peaks $T =$

Tween deck tonnage (for Awning deck vessels and vessels having three or more complete decks)..... $T_0 =$

Tonnage of partial double bottom above line of floors of rule depth $T_1 =$

Tonnage for the co-efficient of tonnage $(T + T_1)$ $=$

Co-efficient of Tonnage

$K = \frac{2.83 (T + T_1)}{L \times (B - 2d) \times D} = \frac{2.83 \times}{\times} =$

Correction for continuous double bottom if required

..... $K =$

Freeboard in the Table $=$

CORRECTIONS TO THE

(a) CORRECTION FOR LENGTH. (Art. 19.)
 Length of Ship on Loadline $L =$
 Length in Table..... $L_1 =$
 Difference $L - L_1 =$
 Correction for 1 metre..... $c =$
 Total Correction $a = (L - L_1) c =$
 For Steamers having $\frac{1}{10}$ th this length or more covered by deck erections $\times .5$
 Net Correction $a =$

(b) CORRECTION FOR SHEER. (Art. 20.)
 (For vessels other than Spar and Awning deck.)
 Mean Sheer of Vessel.
 Vessels without superstructures or with bridge closed both ends.
 Gradual shear. $t_m = \frac{t_2 + t_7}{2} = \frac{+}{2} =$
 Not gradual. $t_m = \frac{t_2 + t_7}{1.1} = \frac{+}{1.1} =$
 Vessels having fore-castle only.
 Gradual shear. $t_m = \frac{t_2 + t_7}{2} = \frac{+}{2} =$
 Not gradual. $t_m = \frac{t_2 + t_7}{2} + \frac{+}{1.1} =$
 Vessels having Poop and fore-castle with or without open bridge.
 Gradual shear. $t_m = \frac{t_2 + t_7}{2} = \frac{+}{2} =$
 Standard mean shear $t = \begin{cases} 8.3 L + 255 = 8.3 \times + 255 = \\ 5.81 L + 175 = 5.81 \times + 175 = \\ 4.98 L + 150 = 4.98 \times + 150 = \end{cases}$
 Difference..... $t_m - t =$
 Correction..... $b = \frac{t_m - t}{4} = \frac{+}{4} =$
 If limited, „ $= \frac{t}{2 \times 4} = \frac{+}{2 \times 4} =$
 Fall in shear = $\times .5 =$
 Correction..... $b =$

(c) CORRECTION FOR DECK ERECTIONS. (Arts. 21 to 27.)
 Allowed length of Fore-castle (Appendix A.) $=$
 „ „ „ Bridge $=$
 „ „ „ Poop $=$
 „ „ „ Raised Quarter Deck $=$
 Total allowed length of deck erections $=$
 Total allowed length of deck erections $=$
 Length of vessel on loadline $=$

	A	C	D
Freeboard Table.....			
Correction for length if required			
„ „ shear „			
Corrected Freeboard ... $A =$		$C =$	$D =$
..... $C =$			
..... $A - C =$			
Percentage according to type of deck erections (Table 1) =			
Correction { Steamers ... $c = (A - C) P =$			
{ Sailing ... $c = D \times P =$			
If Engine and Boiler openings not covered by Poop or Raised Quarter deck or strong iron or steel deckhouse (Arts. 24 & 25) } $\times .6$			
Correction $c =$			
Correction for Raised Quarter deck if Engine and Boiler openings not covered by Bridge (Art. 26) $=$			
Correction $c =$			
Correction for scantlings of deck erections if necessary $=$			
Correction $c =$			

(d) CORRECTION FOR IRON UNCOVERED DECK. (Art. 28.)
 $p = \frac{\text{Allowed length of deck erections}}{\text{Length on loadline}} = \frac{+}{+} =$
 Rule thickness of wood deck..... $T =$
 „ „ „ stringer plate... $t =$
 „ „ „ $T - t =$
 Correction $d = \begin{cases} (4p - 1.80)(T - t) = \\ p(T - t) = \end{cases}$

TABULAR FREEBOARD.

(e) CORRECTION FOR ROUND OF BEAM. (Art. 29.)
 Round of Beam $B =$
 Normal round... $B_1 = \frac{\text{Breadth at gunwale amidships}}{48} = \frac{+}{48} =$
 Difference..... $B - B_1 = d =$
 Percentage p (deck erections)..... $=$
 Correction $e = \frac{d}{2} \times \frac{100 - p}{100} = \frac{+}{100} =$

(f) CORRECTION FOR HEIGHT OF 'TWEEN DECK. (Art. 30.)
 (For Spar deck vessels.)
 Height of 'Tween decks $h =$
 Rule { Ship $B + C =$ $L \times B \times C =$
 Numbers { With 'tween deck 2m.13 $B + C =$ $L \times B \times C =$
 Correction..... $f =$

(g) CORRECTION FOR AREA OF FREEING PORTS. (Art. 31.)
 (For Well deck steamers and steamers of less than 4m.50 moulded depth having Poop, Bridge, and Fore-castle.)
 Total area on each side $=$
 Area per rule $=$
 Correction..... $g =$ % moulded depth = $=$

(h) CORRECTION FOR NON-FITTING OF GANGWAY FOR CREW. (Art. 32.)
 (In Well deck steamers and steamers of less than 4m.50 moulded depth having Poop, Bridge, and Fore-castle.)
 Correction..... $h =$ % moulded depth = $=$

(i) CORRECTION FOR SCANTLINGS. (Art. 33.)
 (For steam vessels.)
 Freeboard. Table A corrected $A =$
 Spar Deck Steamers. „ „ B „ $B =$
 „ „ „ $B - A =$
 K =
 Correction..... $i = K(B - A) =$
 Freeboard. Table C corrected $C =$
 „ „ B „ $B =$
 Height of 'Tween decks $h =$
 K =
 Correction..... $i = K(h + C - B) =$

(j) CORRECTION FOR CLASS. (Art. 34.)
 Class of the vessel
 Correction $j =$

(k) CORRECTION FOR SUMMER FREEBOARD. (Art. 35.)
 Steamers without deck erections, Spar and Awning deck $k =$
 Correction given in Table A..... $a =$
 Steamers having deck $c =$
 erections. Percentage p (deck erections) $c - a =$
 $k = a + p(c - a) =$

(l) CORRECTION FOR SUMMER FREEBOARD IN TROPICAL SEAS. (Art. 36.)
 $l = 2k =$

(m) CORRECTION FOR WINTER NORTH ATLANTIC FREEBOARD. (Art. 35.)
 Steamers less, or equal to, 100m.50 in length $m = .050$
 All sailing vessels $m = .075$
 Well deck steamers, percentage p (deck erections) $=$
 m (Table No. 7) $=$

(n) CORRECTION FOR FRESH WATER. (Art. 35.)
 Moulded depth $c =$
 Freeboard $f =$
 „ „ „ $c - f =$
 Correction $n = .022(c - f) =$

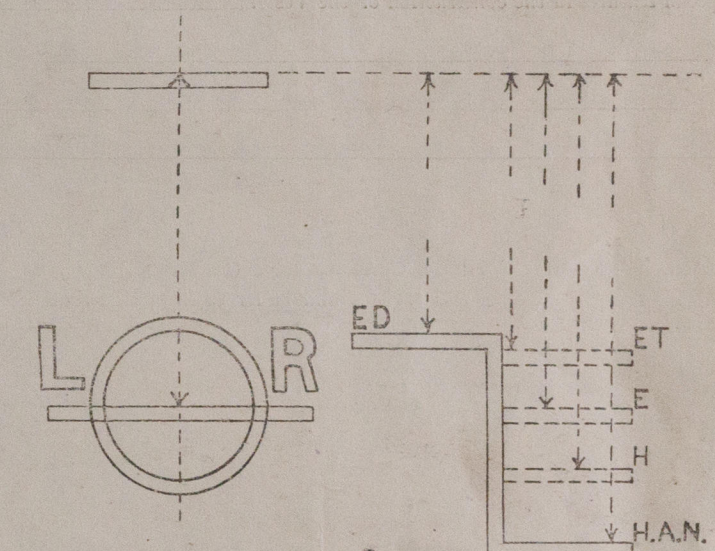
SUMMARY OF THE CALCULATION.

Winter Freeboard by the Tables

	Millimetres.	+	-
Correction for length $a =$			
„ „ shear $b =$			
„ „ deck erections $c =$			
„ „ iron uncovered deck $d =$			
„ „ round of beam $e =$			
„ „ height of 'tween decks $f =$			
„ „ deficiency of freeing port area... $g =$			
„ „ non-fitting of gangway for crew... $h =$			
„ „ scantlings $i =$			
„ „ class $j =$			
Other corrections, if any $=$			
Total.....	$= +$		
Net correction.....	$=$		

Winter Freeboard measured from the upper surface of the deck (wood or iron) $=$
 Correction for Summer Freeboard $k =$
 Summer Freeboard (centre of disc)..... $=$
 Correction for Summer Freeboard in Tropical Seas $l = 2k =$
 Summer Freeboard Tropical Seas $=$
 Correction for Winter North Atlantic Freeboard $m =$
 Winter North Atlantic Freeboard..... $=$
 Correction for Summer Freeboard in Fresh Water $n =$
 Summer Freeboard in Fresh Water $=$

Limitation of the Freeboard on account of openings in the vessel's sides. (Art. 36.)



(This space for use in London Office only.)

It is submitted the above Freeboards merit approval.

Date of Committee's Minute

The Freeboard marks have been placed on the vessel's sides

at on the

See verification of marking form.

Well Deck Steamers and Steamers
less than 4m.50 Moulded Depth
having Poop, Bridge and Forecastle.

Length of Bulwarks in Well $24.9^m + 24.9^m = 160.5^m$

Number and Dimensions of Freeing Ports each side Five @ 35.4×15.7 . Rectangular with low bars

Total Area of Freeing Ports on each side

Breadth and Type of Gangway for Crew over Well Top of High Hatches & much platform - Sat

State if the Crew are Berthed in Bridge House or Forecastle Yes

DETAILS OF CONSTRUCTION OF THE WEATHER DECK HATCHWAYS.

	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.
Length and Breadth	$30.7' \times 17.8 \text{ to } 14.8$	$34.21' \times 18.1$	$26.24' \times 20.9'$	30.9×20.9	
Height and Thickness of Coaming...	$48.2" \times 43"$	$48.2" \times 43"$	$78" \times 43$	$78" \times 43$	
Shifting Beams { Number and Material..	Five steel $19.6 \times 16.7 \times 39$	6: $19.6 \times 16.7 \times 39$	4: $23.6 \times 19.6 \times 41$	$23.6 \times 19.6 \times 41$	
Scantlings	4 angles $3.9 \times 3.1 \times 37$	do	4 angles $4.5 \times 3.5 \times 37$	do	
Fore and Afters { Number and Material..	None	✓	✓	✓	
Scantlings					
Thickness of Hatches	3"	3"	3"	8"	

Remarks:— Satisfactory

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.

Do all the Frames extend to the top height in the Poop? Yes - Raised Quarter Deck? ✓ Bridge House? Yes - Forecastle? Yes

To what height do the Reverse Frames extend? Bayle framing

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? Yes

Give particulars of the means for closing the openings in Bulkhead no openings

Is the Poop or Raised Quarter Deck connected with the Bridge House? No Has the Bridge House an efficient Bulkhead at the fore end? Yes

Give particulars of the means for closing the openings in Bulkhead Two hinged W.T. doors with 4 toggles and strong back Satisfactory

Are bracket plates fitted at each end of the Stiffeners? Yes - Are hor'l. brackets fitted connecting Bridge Bulk'h'd. with Bulwarks? Yes

Has the Bridge House an efficient Iron Bulkhead at the after end? Yes

How are the openings closed? 2 Hinged W.T. doors with 5 toggles

Is the Forecastle at least as high as the main or top-gallant rail? Yes - Has the Forecastle an efficient Iron or Wood Bulk'h'd. at after end? Yes

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, & enclosed by a Strong Iron or Steel Deckhouse? Yes

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? Satisfactory

Give thickness of plating; scantlings and spacing of Stiffeners 35. 3.5 x 3 x 40 @ 27"

What is the height of the exposed Casings? 90.5" + 39.2R Skylight Are suitable means provided for closing all openings in them in bad weather? Yes

State vertical distance from top of deck at side amidships or above base line at top of keel to lower edge of lowest side scuttle none below upper deck

State if any cargo ports or scuppers through sides of vessel below Upper deck no

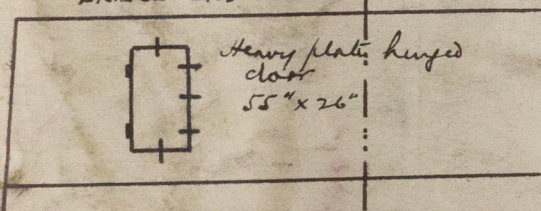
State any special features in the construction of the Vessel Side Trimming tanks. High self-trimming hatches connected by high wench platforms. Poop Br & File all sheathed.

The owners wish to know what increase of any over present B.V. Freeboard 1.015^m measured from would be allowed if the side ballast tanks which are stated to be never used, were blank

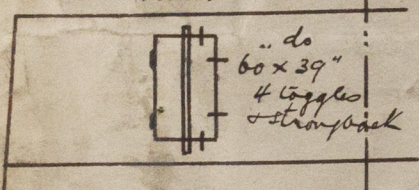
SKETCHES.

Show by sketch, if necessary, details of construction of the means for closing the openings in the end bulkheads of the deck erections, also details of hatchways, engine and boiler casings, side scuttles, cargo ports, freeing ports, scuppers, &c.

BRIDGE-END

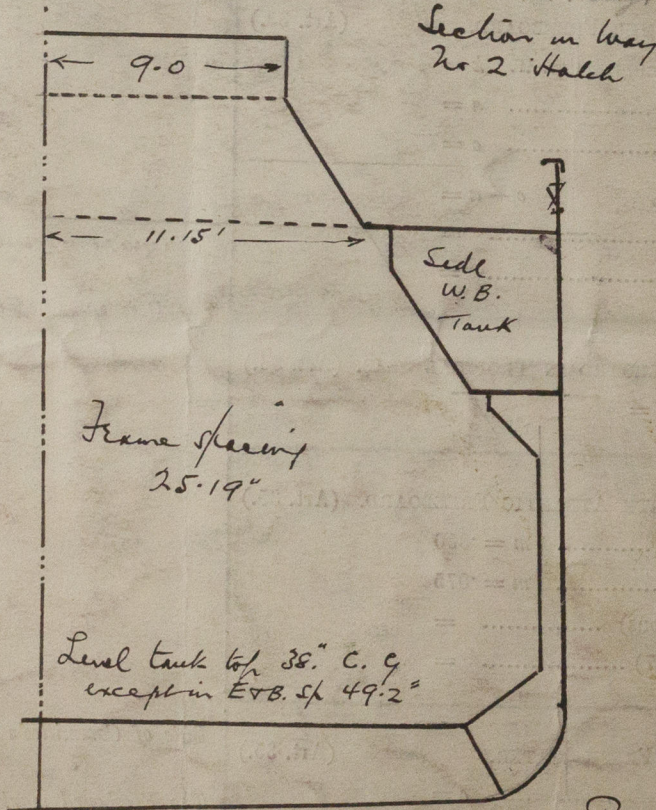


BRIDGE-FRONT



File side house

5 Solid wood doors
61 x 26"
Satisfactory



Fee £

Received by me

W993A-D165 2/2