

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.—STEAM SHIPS.

243

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Barrow.

Date of Survey While Building

Name of Surveyor J. Holgerson

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
"STRATHAIRD" <i>Vickers Armstrongs N° 664</i> Number in Register Book <i>35211.</i>	<i>London.</i> <i>British.</i>	<i>162640</i>	<i>22543.57</i>	<i>1931</i>	<i>* 100 A1 with preboard.</i> <i>(Contemplated)</i>

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	638.7	80.25	33.10	Suez. 12352.20
Length on LOADLINE.	630.0	Frame Depth 10 Rule „ 10 9	Ceiling +.20 No Sheer + 1.61.	Peak Included Tanks
		-16 for sparring allns. +.25 30		Deduct Cruiser Stern 105.10
CORRECTED DIMENSIONS.	630.0	80.34	34.91.	12247.10

Moulded Depth as measured.....34'-6" to F deck

Addition for Keel below base line
for draught record.....2.....inches.

NOTE. — If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	630	-	
Length in Table	450	-	
Difference	180		
Correction for 10ft., Table A.	1.4	✓	Table C.
× Difference divided by 10	30.6	✓	(if required.)
If $\frac{6}{10}$ ths length covered divide by 2	15.3		+ 1' 34"

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{7}{10}$ ths length covered
 Thickness of usual wood deck, less stringer $3\frac{1}{2}$ -
 Composition on ~~Wood~~ ^{Steel} deck $1\frac{1}{2}$ - difference = 2'

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	80		
Round of Beam	nrl.	(6" in Well aft	round should be ed on breadth at the gun
Normal round.....	20		
Difference	20	÷ 2 =.....	10'
Proportion of Deck uncovered (Para. 19)	139		sq. + 1 1/4
	10 x 129 = 1.29		

NOTE. — The round of beam should be reported on the full breadth of vessel at the gunwale.

Co-efficient of fineness.....	.69 ✓	Centre 1. Side ✓
Any modification necessary } [Para. 4 (a) to (e)]* }	✓	Tonnage measured to .15
Co-efficient as corrected69 ✓	inside frame each side in Cargo Spaces only ✓

Sheer { Stem.....156 } $240 \div 2 = 120$...Mean
at { Sternpost ... 84 } 130.91
73.00
36 57.91
1.61.

Sheer at $\frac{1}{2}$ of the length from { Stem 94 $\frac{1}{2}$ } $144 \div 2 = 72$...Mean
{ Sternpost 49 $\frac{1}{2}$ } 55.130.91

Gradual mean Sheer $\frac{120 + 130.9}{2} = 125.45$

Standard mean Sheer [Table, Para. 18] 73 Correction

Difference..... $52.45 \div 4 = 13.11$

§ If limited as Para. 18 (f) = - 1'-1"

Depth $(130.9 - 73) \div 36 = + 1.61$

Rise in Sheer	{	At front of bridge house.....
from amidships		At after end of forecastle
[Para. 18 (e)]		

Fall in Shear	} $\div 2 =$	
Para. 18 (d)		
Length uncovered		Correction

ALLOWANCE FOR DECK ERECTIONS :—

Freeboard, Table C.....
Correction for Length, if required (Para. ~~12, 13, and 14~~)

Freeboard by Table A. corrected for sheer, and for length, 9-1 ✓
if required (Para. 11, 12, 13, and 14) 1-11 1/2 ✓

Difference 81-1% ✓

Percentage as below.....

$$23\frac{1}{2} \times 0.811 = 19.06'' = 1'-4''$$

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) } ✓

Allowance for Deck Erections - 1-7 ✓

		Length.	Length allowed.	Height.
lined	Forecastle.....	closed 493.2 ✓	493.2	501.9
	Bridge House.....	open 11.6 × 3/4	8.4	9' 10.8"
detail Sketch	Raised Or. Dk.....	closed 26.8	26.8	40.4 ✓
	Poop.....	open 42.0	36.7	8' ...
Total		548.8	542.3	86.1% ✓
Length of Ship		630	630	

Corresponding percentage } 81.1% ✓
(Para. 11, ~~12, 13, or 14~~) }

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, ^{12" above} Wood (Steel) Deck :—

As assigned by Board of Trade.	Fresh Water Line	above	centre of Disc
	Indian Summer Line	"	" "
	Winter Line	below	" "
	Winter North Atlantic Line.	"	" "

18 DEC 1981

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or steel deck with side.

Winter Freeboard from deck line	9-3
Summer " " " "	8-8
Indian Summer " " " "	11
N. A. Winter " " " "	11

Indian S
Composition
N.A.Wi
1 1/2" above m

† State dimensions of freeing port area on back of this form.

The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

Q If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

† In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.

§ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having pops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

2m.7.27 . T.

The displacement at a draft of 85% of depth (ie 31-10½) = 30700 tons

Tons per inch " " " " " " " " 94.5 "

S.P.
16.12.31

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relatively to the straight
vessel's draft at time of

Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *Yes* Bridge House? *Yes* Forecastle? *Yes*
 To what height do the Reverse Frames extend? *To G deck forward & H deck aft*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes see sketch*
 Give particulars of the means for closing the openings in Bulkhead *Hinged steel and teak doors with steel coamings*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *No* Has the Bridge House an efficient Bulkhead at the fore end? *Combined with*
 Give particulars of the means for closing the openings in Bulkhead *✓*
 What is the thickness of the Bridge Front plating? *✓* and Coaming plate? *✓*
 Give scantlings and spacing of the Stiffeners *✓*
 Are bracket plates fitted at each end of the Stiffeners? *✓* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *✓*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*
 How are the openings closed? *Hinged teak doors with steel coamings*
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *✓*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *By Bridge and two tiers of strong superstructures and tier of deck above Bridge*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *✓*
 Give thickness of plating; scantlings and spacing of Stiffeners *✓*
 What is the height of the exposed Casings? *✓* Are suitable means provided for closing all openings in them in bad weather? *Yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *Yes*

Position and Size.	N ^o 1 E (Bridge Deck) 18-6 x 16-0	N ^o 2 (Bridge Deck) 17-6 x 16-0	N ^o 3 B ^o (Upper Bridge) 19-3 x 16-0	N ^o 4 D Deck 12-9 x 16-0	N ^o 5 Upper Deck 13-9 x 16-0	N ^o 6 Upper Deck 13-9 x 16-0
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING: Height above top of DECK	30		30		30	30
Thickness: Sides	.44		.44	.36	.40	.40
Ends	.44		.44	.36	.40	.40
SHIFTING BEAMS OR WEB PLATES: Number	None.		None.	one	one	one
Section and Scantlings	None.		None.	11 12 1/2 x 32	11 14 x 32	as in N ^o 5
Material	Steel		Steel	as approved	as approved	as in N ^o 5
* FORE AND AFTERS: Number	4		4	None	None	None
Section and Scantlings	I 12 x 6 x 3/8		I 12 x 6 x 3/8			
Material	Steel		Steel			
HATCHES Thickness	.34 Steel		.34 Steel	.34 Steel	.34 Steel	.34 Steel
Remarks	Hatch framed. Bridge to 2nd Deck.	Hatch framed. Bridge to Upper Deck.	Hatch framed. D Deck to F Deck (Upper Deck).	3" Wood gratings Hatch framed. D Deck to F Deck.	3" Gratings	3" Gratings

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *.45* Strake between Main and Bridge Sheerstrakes? *.45*

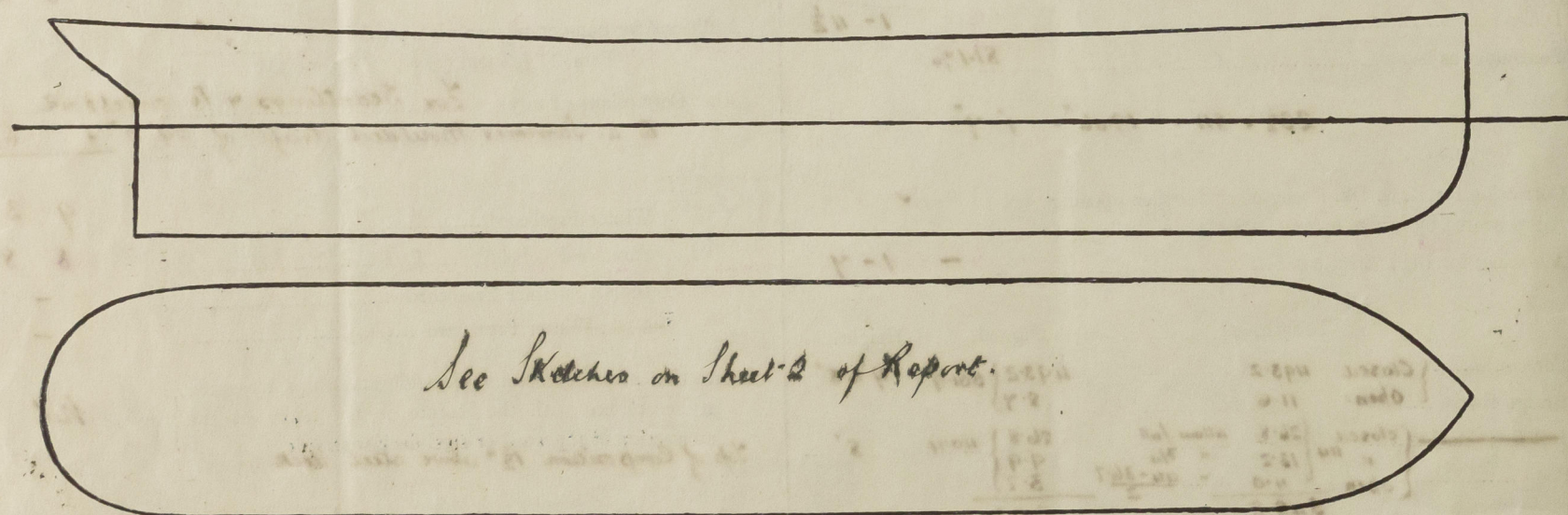
Delete the words { The Crew ~~are~~ are not, berthed in the bridge house. that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~are~~ satisfactory.

Length of Bulwarks in well *aft 84.2'*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *16.2* Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *9.* Sq. ft.

Total deficiency or excess = *7.* Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *✓*

Builder's name and yard number *Vickers Armstrongs Ltd N^o 664*

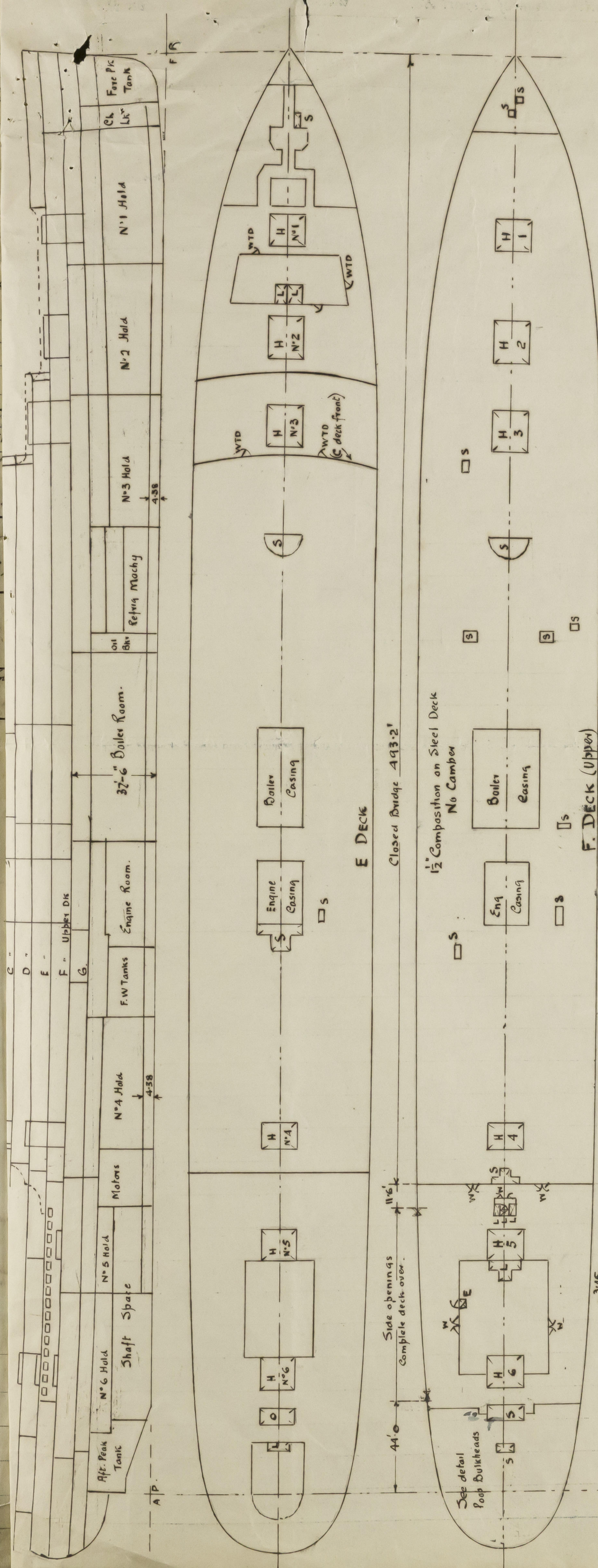
Names of sister vessels *T.S.S. "Strathairn" (same builders 663)*

Owners *Peninsular & Oriental Steam Navigation Co Ltd.*

Address

Fee £ *✓* Received by me

Freeboard Assigned by Board of Trade. The Freeboard being a condition of class this Report is forwarded for the information of the Committee.



Notes: Deck Openings — H = Cargo Hatch.

L = Ladderway protected by

Steel Deckhouses having Steel or

Teak hinged doors & Steel Coamings

S = Ladderway inside Erection

E = Tunnel Escape & Trunk having

Steel hinged doors opened from

both sides

$$2.75 \times 16.3 = 44.825$$

$$5.5 \times 16.5 = 90.75$$

$$44.825 + 90.75 = 135.575$$

$$135.575 - 113.375 = 22.2$$

$$26.8 \times 11.0 = 294.8$$

$$294.8 - 272.6 = 22.2$$

— Poop Bulkheads —

(A) .30 plating; Stiffeners 4 1/2 x 3.50 L

Spaced 42

(B) .30 plating; Stiffeners 4 1/2 x 3.50 L

with 6" 8A under girders, spacing 30"

(C) .26 plating; Stiffeners 3 1/2 x 3.50 L

with 6" 8A under girders, spacing 30"

Remaining. Steel Bulkheads shown are

.26 plating with stiffeners 3 x 2 1/2 x 26

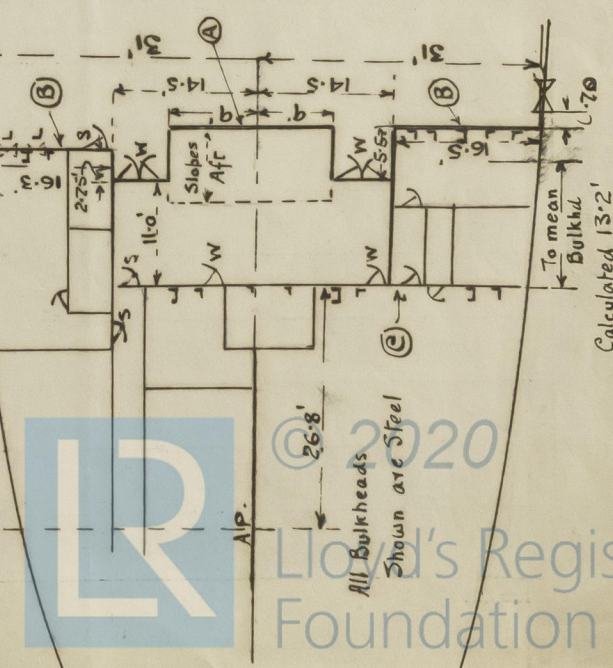
Spaced 30" 1/2 33" or equivalent

S indicates Steel hinged doors

N " Strong wood doors

L " Two small frame glass

Windows



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