

# M. V. Nos 941-942 & 944-945

## SECRET AND CONFIDENTIAL

### EMERGENCY PROGRAMME

#### MOTOR CARGO VESSEL - "X" TYPE

#### MIDSHIP SECTION

SCALE  $\frac{1}{2}" = 1 \text{ FOOT}$   
 TO CLASS 100A.I. WITH FREEBOARD AT LLOYD'S SPECIAL SURVEY  
 COMPLETE SUPERSTRUCTURE VESSEL WITH TONNAGE OPENING.  
 DIMENSIONS: 425' 0" B.P. ON L.W.L. - 56' 0" MLD - 56' 3" EXT. - 27' 9" MLD TO 2ND DECK - 36' 9" MLD TO UPPER DECK.



LLOYD'S NUMERALS

FIRST LONGITUDINAL NUMBER L = D = 425 - 55.75	=	15193.75
SECOND LONGITUDINAL NUMBER L = (B + D) = 425 - (56 + 55.75) =	=	38993.75
1/2 TO UPPER DECK 425 - 56.75	=	11.55
D MOULDED DEPTH = 27.75 + 8	=	55.75
d = 36.75 - (9 + 5.75) - 3 FOR HIGHER BRACKET.	=	23.90
d AT HALF LENGTH FORWARD.	=	26.89

EQUIPMENT NUMBER

SECOND LONGITUDINAL NUMBER = 425 - (56 + 55.75) =	=	39418.75
FORECASTLE = 40 - 7.5 - 3.4	=	225.00
MIDSHIP ACCOMMODATION & CABIN = 72.25 - 8 - 1.4	=	225.00
SALOON ACCOMMODATION = 30 - 0 - 1/2	=	120.00
EQUIPMENT NUMBER =	=	40052.75

EQUIPMENT

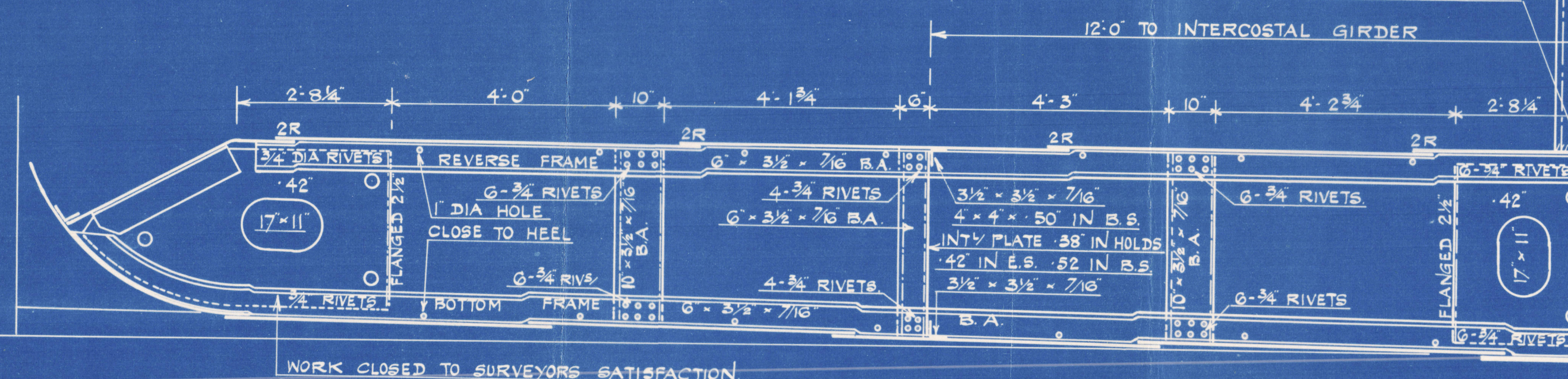
2 BOWER ANCHORS 08 CWT'S EACH STOCKLESS	
1 BOWER ANCHOR 58 1/2 CWT'S STOCKLESS	
1 STREAM ANCHOR 10 CWT'S EX-STOCK	
225 FATHOMS 2 3/16" STUD CHAIN CABLE 600 CWT'S	
90 FATHOMS 1 5/16" STREAM CHAIN OR 5" FLEXIBLE STEEL WIRE 6" x 12"	
120 FATHOMS 4 1/4" SPECIAL FLEXIBLE STEEL WIRE 6" x 24"	
2 HAWSEYS 90 FATHOMS 8" HEMP OR 2 1/4" FLEX. STEEL WIRE 6" x 12"	
2 WARPS 30 FATHOMS 7" HEMP OR 2 1/2" FLEX. STEEL WIRE 6" x 12"	

#### RIVETING NOTE

RIVETS IN FRAMES TO FLOORS AND CROSS TIE PLATES IN AFT PEAK SPACED 5 DIA APART CR TO CR.  
 RIVETS IN FRAMES TO SHELL AT FLAT OF DOUBLE BOTTOM FORWARD HALF LENGTH FOR 3/4 SPACED 5 1/2 DIA (TWO COMPLETE ROWS).  
 RIVETS IN FRAMES TO FLOORS AT FLAT OF DOUBLE BOTTOM FORWARD HALF LENGTH FOR 3/4 SPACED 5 1/2 DIA (TWO COMPLETE ROWS).  
 RIVETS IN SIDE FRAMES TO SHELL SPACED 5 1/2 DIA APART 5 1/2 DIA APART IN WAY OF FORE AND AFT PEAK TANKS AND DEEP FRAMING FORWARD AND DEEP TANK OIL FUEL BUNKER.  
 RIVETS IN BOTTOM FRAMES TO SHELL AFT OF HALF LENGTH FORWARD SPACED 7 DIA APART CR TO CR.  
 RIVETS IN 3R BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 3 1/2 DIA APART CR TO CR.  
 RIVETS IN 4R BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 4 DIA APART CR TO CR.  
 RIVETS IN BEAMS OF SHELL PLATING, DECK PLATING AND INNER BOTTOM PLATING AS PER TABLE 40.  
 RIVETS IN BUTTS OF DECK PLATING, INNER BOTTOM AND MARGIN PLATING SPACED 4 DIA APART CR TO CR.  
 RIVETS IN BEAMS AND BUTTS OF BULKHEAD AND TUNNEL PLATING, MARGIN ANGLES AND WEATHER DECK STRINGER ANGLES AND BULKHEAD FRAME TO BULKHEAD SPACED 4 1/2 DIA APART CR TO CR. (EXCEPT OT BULKHEADS).  
 RIVETS IN FLAT KEEL ANGLES, VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIRDER AND SHELL FLANGE OF WATERTIGHT BULKHEAD FRAME SPACED 5 DIA APART CR TO CR.  
 RIVETS IN FRAMES TO FLOORS AFT OF HALF LENGTH FORWARD REVERSE FRAMES TO FLOORS AND INNER BOTTOM PLATING (CLEAR OF MOTOR ROOM AND BOILER SPACE), VERTICAL ANGLES CONNECTING FLOORS AND SIDE GIRDERS IN W.T. BULKHEAD STIFFENERS (EXCEPT PEAK AND OT BUNKER SHIPS) AND IN DECK PLATING TO BEAMS ON EVERY FRAME SPACED 7 DIA APART CR TO CR.  
 RIVETS IN CENTRE GIRDER TOP ANGLES SPACED 7 DIA APART CR TO CR. NON WATERTIGHT.  
 RIVETS IN CENTRE GIRDER TOP ANGLES SPACED 5 DIA APART CR TO CR. WATERTIGHT.

THE SCANTLINGS OF ANGLE & BULB ANGLE SECTIONS GIVEN ON THIS PLAN ARE N.B.S. AND ARE IN ACCORDANCE WITH THE EMERGENCY PROGRAMME LIST.

STEM 10" x 2 1/2" STERN POST 10 1/2" x 8" RUDDER POST 10 1/2" x 8"



SEPARATE PLAN OF BOTTOM STRENGTHENING FORWARD TO BE SUBMITTED LATER.

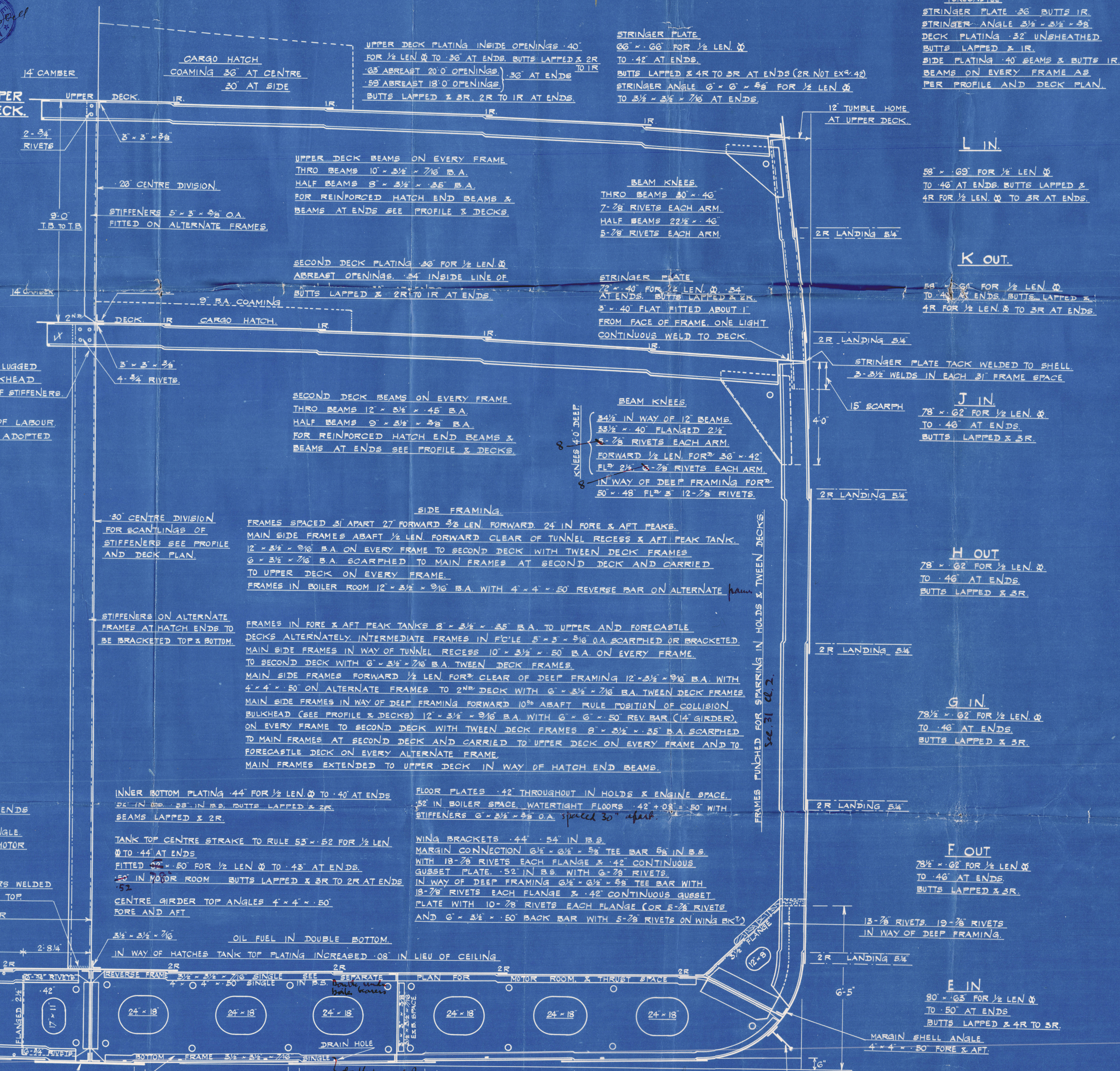
DISPOSITION OF FLOORS  
 SOLID FLOORS ON EVERY FRAME IN MOTOR SPACE AND FORWARD 3/4 LEN FORWARD AND UNDER BULKHEADS. ELSEWHERE SOLID FLOORS ON EVERY THIRD FRAME. BRACKET FLOORS INTERMEDIATE.

KEEL ANGLES 4" x 4" x 9/16" FOR 1/2 LEN & TO 50' AT ENDS

KEEL OUT  
 52" x 78" FOR 1/2 LEN & TO 50' AT ENDS BUTTS LAPPED & 4R TO 5R AT ENDS. 1 DIA RIVETS IN BUTTS OVER 72"

As desired by the Board of Trade.

THE SCANTLINGS ARE SUITABLE FOR A DRAUGHT 18" IN EXCESS OF THAT CORRESPONDING TO THE FREEBOARD WHICH COULD BE ASSIGNED TO THE VESSEL WITH A TONNAGE OPENING FITTED AS SHOWN ON THE PLAN.



THICKNESS OF BOTTOM SHELL PLATING FROM FORWARD HALF LENGTH FORWARD TO RULE POSITION OF COLLISION BULKHEAD 63" + 10% = 69"

FORECASTLE  
 STRINGER PLATE 36" BUTTS 1R.  
 STRINGER ANGLE 3 1/2" x 3 1/2" x 58.  
 DECK PLATING 52" UNHEATED BUTTS LAPPED & 1R.  
 SIDE PLATING 40" BEAMS & BUTTS 1R.  
 BEAMS ON EVERY FRAME AS PER PROFILE AND DECK PLAN.

L IN.  
 58" x 69" FOR 1/2 LEN & TO 46' AT ENDS BUTTS LAPPED & 4R FOR 1/2 LEN & TO 3R AT ENDS.

K OUT.  
 58" x 69" FOR 1/2 LEN & TO 46' AT ENDS BUTTS LAPPED & 4R FOR 1/2 LEN & TO 3R AT ENDS.

J IN.  
 78" x 62" FOR 1/2 LEN & TO 46' AT ENDS BUTTS LAPPED & 3R.

H OUT.  
 78" x 62" FOR 1/2 LEN & TO 46' AT ENDS BUTTS LAPPED & 3R.

G IN.  
 78" x 62" FOR 1/2 LEN & TO 46' AT ENDS BUTTS LAPPED & 3R.

F OUT.  
 78" x 62" FOR 1/2 LEN & TO 46' AT ENDS BUTTS LAPPED & 3R.

E IN.  
 80" x 65" FOR 1/2 LEN & TO 50' AT ENDS BUTTS LAPPED & 4R TO 5R.

MARGIN SHELL ANGLE 4" x 4" x 50" FORE & AFT.

BULGE KEEL 6 1/2" x 6 1/2" x 5 1/2" TEE BAR WITH 10" x 50" BULB PLATE FOR ABOUT 110' 0" AMIDSHIPS.

MARGIN PLATE TO RULE 50" FITTED ABOUT 44" x 54" x 60" IN B.S. BUTTS LAPPED & 3R THROUGHOUT.

APPROVED  
 LLOYD'S REGISTER OF SHIPPING  
 DATE 28/1/41



LITHGOWS LTD

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NOS 941-2-4-5

MIDSHIP SECTION.

941

"EMPIRE COMET"



X Type

GRK. FIRST ENTRY REPORT N° 21322.

942

"CAPE VERDE"

GRK. FIRST ENTRY REPORT N° 21340

944

"EMPIRE SPRING"

GRK. FIRST ENTRY REPORT N° 21458

945

"EMPIRE TIDE" NEW "THIRLEY"

GRK. FIRST ENTRY REPORT N° 21590

~~7-5-68~~  
PLANS TRANSFERRED  
TO SISTER VESSEL

*Guri*

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Lloyd's Register  
Foundation

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