

# MIDSHIP SECTION

No 525 S.S.

SCALE 1/2" = 1'-0"

DIMENSIONS 360'-0" X 51'-9" X 28'-4" MOULDED

CLASS 100 A.I. LLOYD'S SPAR D<sup>5</sup> RULE

HARROWAY & DIXON'S PATENT

## NUMERALS

1/2 BREADTH 25.87  
1/2 GIRTH 43.71  
DEPTH 21.37  
90.95 FRAME NO. SPAR D<sup>5</sup>  
353.08  
32567.37 PLATING NO. RULE

POOP STRINGER 4 1/2 X 20 TO 3 1/2 X 20 BUTTS TREBLE RIV<sup>5</sup> FOR 2L.  
FLE STRINGER 3 1/2 X 20  
BUTTS DOUBLE RIV<sup>5</sup>

H. P. hatch covers 7/8" steel plates with three transverse webs

POOP DECK 2 1/2" FLE DECK 9/16"

POOP & FLE DECK BEAMS 6 X 8 X 20 B.A. ON EVERY FRAME SUPPORTED EQUAL TO TWO ROWS OF FILLARS  
HATCH END BEAMS 10 X 3 1/2 X 20 B.A.

DETAILS OF HATCH COAMINGS TO BE SUBMITTED LATER

FRAMES 5 1/2 X 3 1/2 X 20 KNEED TO SPAR D<sup>5</sup>

BULWARK RAIL 5 1/2 X 3 1/2 X 20

WEBS AS PER PROFILE flanged on face

BULWARK 6 X 7/20 NOT MORE THAN 6'-0" APART

POOP SIDE PLATING 1/2" IN WAY OF ERECTIONS

UNDER 15'-0" STRINGER 2 1/2" (12-15 IN WELL) BUTTS QUAD RIV<sup>5</sup> WELL TREBLE ELSEWHERE

7 X 3 1/2 X 1/20 B.A.

20 WEBS AS PER PROFILE

TOPSIDE STRAKE 1 1/2" TREBLE BUTTS FOR 2L REMAINDER TREBLE

15'-9" IN WELL WITH QUAD BUTTS FOR 2L

QUAD BUTTS FOR 3/4 L REMAINDER TREBLE DOUBLED AT POOP FRONT FOR 27'-0"

SPARCEILING IN HOLDS

INTERCOSTAL SIDE STRINGERS PLATE 5/16" ANGLE 6 X 4 X 20 SHELL LUGS 3/2 X 3 1/2 X 20

LUGS 4 X 3 1/2 X 20

GUSSETS ON EVERY FRAME

6 X 6 HOLES ELSEWHERE EVERY FRAME

DOUBLE ANGLE 3 1/2 X 3 1/2 X 20 OR SINGLE ANGLE 3 1/2 X 3 1/2 X 20

BRACKET KNEE 20

FLANGED

BILGE KEEL FOR 150' BULWARK 10 X 7/20 T BAR 6 X 4 X 7/20

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FRAMING  
IN HOLDS FRAMES 9 1/2 X 3 1/2 X 20 B.A. SPACED 24" APART  
IN TOPSIDE TANKS FRAMES 6 X 3 1/2 X 20 ANGLES  
IN E & B SPACE FRAMES 6 X 3 1/2 X 20 ANGLES WITH 6 X 3 1/2 X 20 REVERSES ON EVERY FRAME FORMING 9 1/2 GIRDER TO SPAR D<sup>5</sup>  
IN PEAKS FRAMES 5 1/2 X 3 1/2 X 20 ANGLES WITH REVERSE BAR 4 3/4 X 3 1/2 X 9/16 ON EVERY FRAME TO UTTER D<sup>5</sup> IN AFTER PEAK FOR ICE STIFFENING SEE SPECIAL PLAN

IN CELLULAR BOTTOM FRAMES 3 1/2 X 3 1/2 X 20 REVERSES 3 1/2 X 3 1/2 X 20  
IN BOILER SPACE 20' DOUBLE RIV 4 X 3 1/2 X 20 UNDER ENGINES THRUST BLOCK UNDER BOILER BEARERS 6 X 6 X 1 1/2  
BULKHEAD FRAMES 5 X 5 X 20 SINGLE ANGLE  
REVERSES IN WAY OF FLE TO MAIN FLE DECK ALT  
STEM 12 X 2 1/2 STERN FRAME 11 X 6 1/4 RUDDER 9 1/2 DIA 3  
BULKHEADS 7/20 FLANGED STIFFENING (See App<sup>5</sup> Plan)

- RIVETING -  
CENTRE GIRDER BUTTS TREBLE OVERLAPS ALL FORE & AFT  
OUTSIDE BRACKETS TO MARGIN PLATE 1/2" X 7/8 RIVETS  
FORM OF THE 1/2" L THE RIVETS IN THE LANDING EDGES OF THE STRAKES FORMING THE FLAT OF BOTTOM TO BE SPACED NOT MORE THAN 4" DIA. APART RIVETS IN WAY OF SAME SPACED NOT MORE THAN 5 1/2 DIA. APART

TANK FLOORS 20' IN ENGINE SPACE 20' BOILER SPACE 10'  
" GIRDERS 9/16" UNDER ENGINES 1/2" UNDER BOILERS 3/16"  
TANK TOP IN HOLDS 20' ENGINE SPACE 20' BOILER SPACE 20'  
ALL BUTTS TO BE DOUBLE RIV<sup>5</sup> OVERLAPS  
MARGIN PLATE 3 1/2 X 7/20 BOILER SPACE 20' BUTTS DOUBLE OVERLAPS

TANK ANGLES 3 1/2 X 3 1/2 X 20 IN E & B SPACE 20'

TANK TOP CENTRE 4 1/2 X 10-8 20' IN BOILER SPACE

DOUBLE CEILING in way of hatchways

DOUBLE UNDER ENGINES 4 X 3 1/2 X 9/20

FRAME 3 1/2 X 3 1/2 X 8/20

DOUBLE FRAME BOTTOMS AT FORE END FROM 3/5 L

3 1/2 X 3 1/2 X 20

11-9 20

60 X 13-12 20

REDUCED FROM RULE THICKNESS TO THICKNESS GIVEN ABOVE

12-10 20

POOP 2 1/2" X 7'6" X 2'10"  
FLE 2 1/2" X 7'6" X 2'10"  
2 1/2" X 7'6" X 2'10" = 2'14'0"  
Hatched 4'76  
3221

EQUIPMENT NO  
FRAME NO 90-95  
DEPTH + GIRTH 16-00  
358-08 LENGTH  
38296-65  
2705-62  
11002-27 EQUIPMENT NO  
41817-15

EQUIPMENT  
2 BOWER ANCHORS 1/2" CWTs EX STOCK LESS  
1 STREAM 15  
270 FATHOMS OF 2 3/16" STUD CHAIN CABLE  
40 " 4 1/2" STEEL WIRE STREAM  
120 " 4 1/2" TOWLINE  
522 C 90-120 " 7 MANILLA  
520 90-120 " 7 MANILLA

BEAMS 7 X 3 1/2 X 20 B.A. ON EVERY FRAME  
IN WAY OF WINCHES 9 1/2 X 3 1/2 X 20 B.A.  
HATCH END BEAMS 12 X 3 1/2 X 3 1/2 X 7/16 CHANNELS 12 X 3 1/2 X 3 1/2 X 7/16 IN WAY OF POOP  
BETWEEN 16 SIDE TANKS ONLY

## SECTION THRO BOILER SPACE

POOP DECK STRINGER 3 1/2 X 20 BUTTS DOUBLE RIVETED

POOP DECK 2 1/2"

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4 1/2 X 3 1/2 X 10-8 20

4 1/2 X 3 1/2 X 10-8 20

## SECTION THRO ENGINE SPACE

FLANGED BRACKETS 7/20 AS FAR AFT AS PRACTICABLE

WITH SHOE

PLATE 1" THICK WHERE FORMING ENGINE SEATING

DOUBLE REVERSES ON WEBS 1 1/2 X 3 1/2 X 7/20

DOUBLE 3 1/2 X 3 1/2 X 20

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C.B.  
29.1.16.

Wep<sup>rs</sup> Sir Ruyhton Dixon 162

S. S. No 525

Midship Section  
(Amended Plan)

DIS SECT  
107

To Signa NN Bharatmata

Mar Report No 4944

SECTION THRO' BOILER SPACE

002362-002373-0112

HT 10' 0" x 10' 0"  
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