

# RIVETING TABLES

## TABLE OF SPACING

	DIA <sup>2</sup> OF RIVET			
	3/4	7/8	1	1 1/8
<b>DOUBLE BOTTOM</b>				
RIVETS THROUGH SIDE FRAMES AND SHELL SPACED 7 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
FROM 1/2 L FORWARD 3 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
FLOORS 7 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup> FROM 1/2 L FOR 5 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
AND SHELL AT WT DIVISIONS 4 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
REVERSES TANK TOP 7 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
AT WT DIVISIONS 4 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
CENTRE GIRDER BUTTS SPACED 4 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
BOTTOM AND TOP ANGLES SPACED 5 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
C <sup>2</sup> TO C <sup>2</sup> IN EACH ROW DOUBLE REELED IN 6 R <sup>2</sup> ANGLE				
CENTRE GIRDER VERTICALS 11 RIVETS IN EACH FLANGE WHERE 6 X 6				
SPACED 5 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup> WHERE 5 1/2 X 3 1/2				
TANK MARGIN VERTICALS OUTSIDE 13 RIVETS AS PER SECTION				
INSIDE 7 " " " "				
VERTICAL ANGLES TO FLOORS AND INTERCOSTALS 7 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
INTERCOSTAL ANGLES TO SHELL AND TANK TOP 4 RIVETS IN EACH FRAME				
MARGIN ANGLES TO MARGIN PLATE AND SHELL 4 1/2 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
TANK MARGIN BUTTS SPACED 4 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
TOP PLATING BUTTS AND EDGES SPACED 4 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
<b>BULKHEADS</b>				
RIVETS THROUGH EDGES & BUTTS OF PLATING SPACED 1 1/2 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
STIFFENERS SPACED 7 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
FRAMED TO SHELL SPACED 5 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup> REELED TWO COMPLETE ROWS				
5 <sup>th</sup> DECK & TANK TOP 4 1/2 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
<b>DECKS</b>				
RIVETS THROUGH DECK PLATING TO BEAMS 7 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
LANDINGS 4 1/2 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup>				
BUTTS 4 " " " "				
UPPER D <sup>2</sup> STRINGER BUTTS SPACED 5 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup> WHERE 3R				
" " " " " " " " 4R				
<b>SHELL</b>				
RIVETS THROUGH BUTTS SPACED 3 DIA <sup>2</sup> C <sup>2</sup> TO C <sup>2</sup> WHERE 3R & 2R				
4 " " " " 4R				
4 1/2 " " " " 5R				
LANDINGS SPACED 4 DIA <sup>2</sup> FORWARD & AFT				
IN EACH FRAME SPACE 7 IN NUMBER 17/8 RIVETS				
" " " " " " " " 5				
" " " " " " " " 15				
SHELL CHECKS OF DECK STRINGERS 4 IN NUMBER IN EACH FRAME SPACE				

## NUMERALS

BREADTH MOULDED = 52' 00"  
 DEPTH MOULDED = 31' 00"  
 LENGTH = 400'  
 52' 00" TRANSVERSE NO.  
 35200 LONGITUDINAL NO.  
 5 TO UPPER DECK = 12 90 5 TO BRIDGE DECK = 10 2  
 1 = 16 1/2"

DIMENSIONS 400'-0" x 52'-0" x 31'-0"

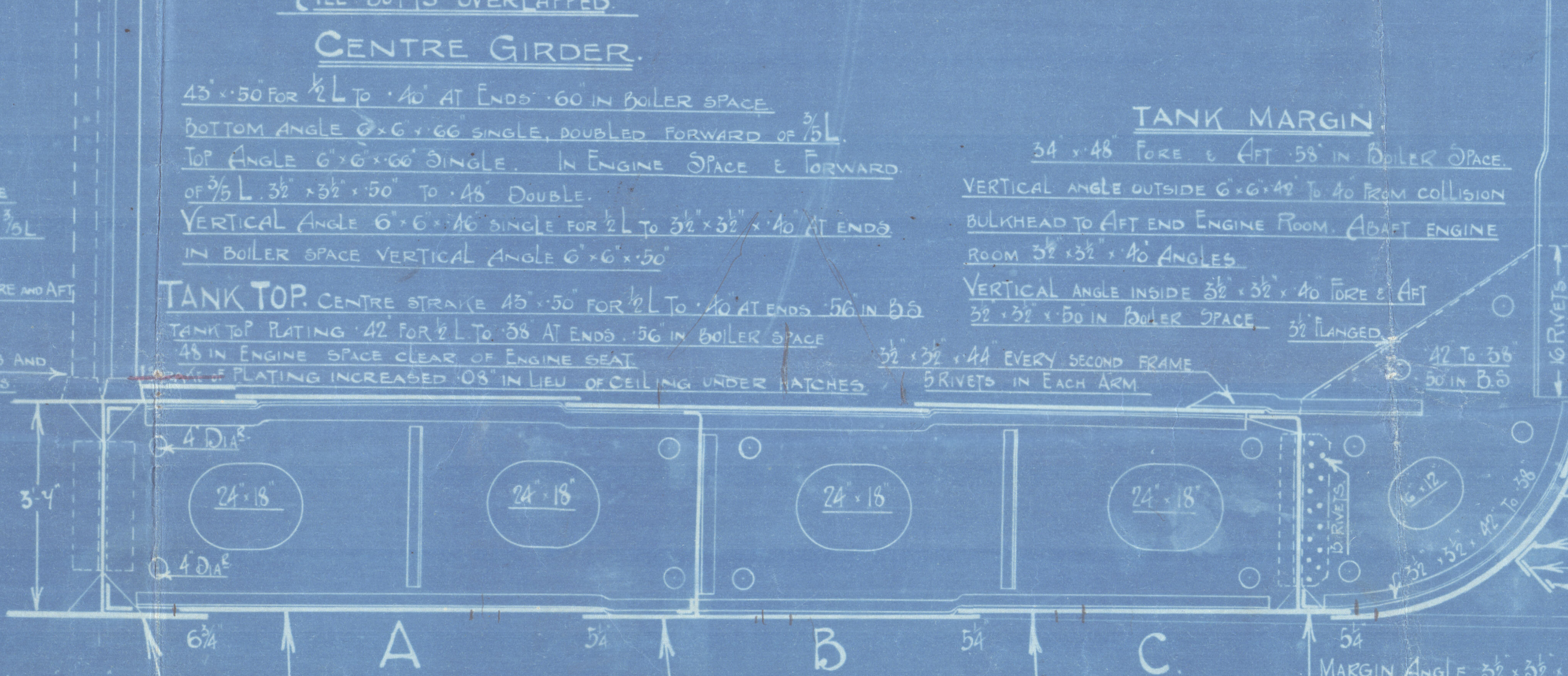
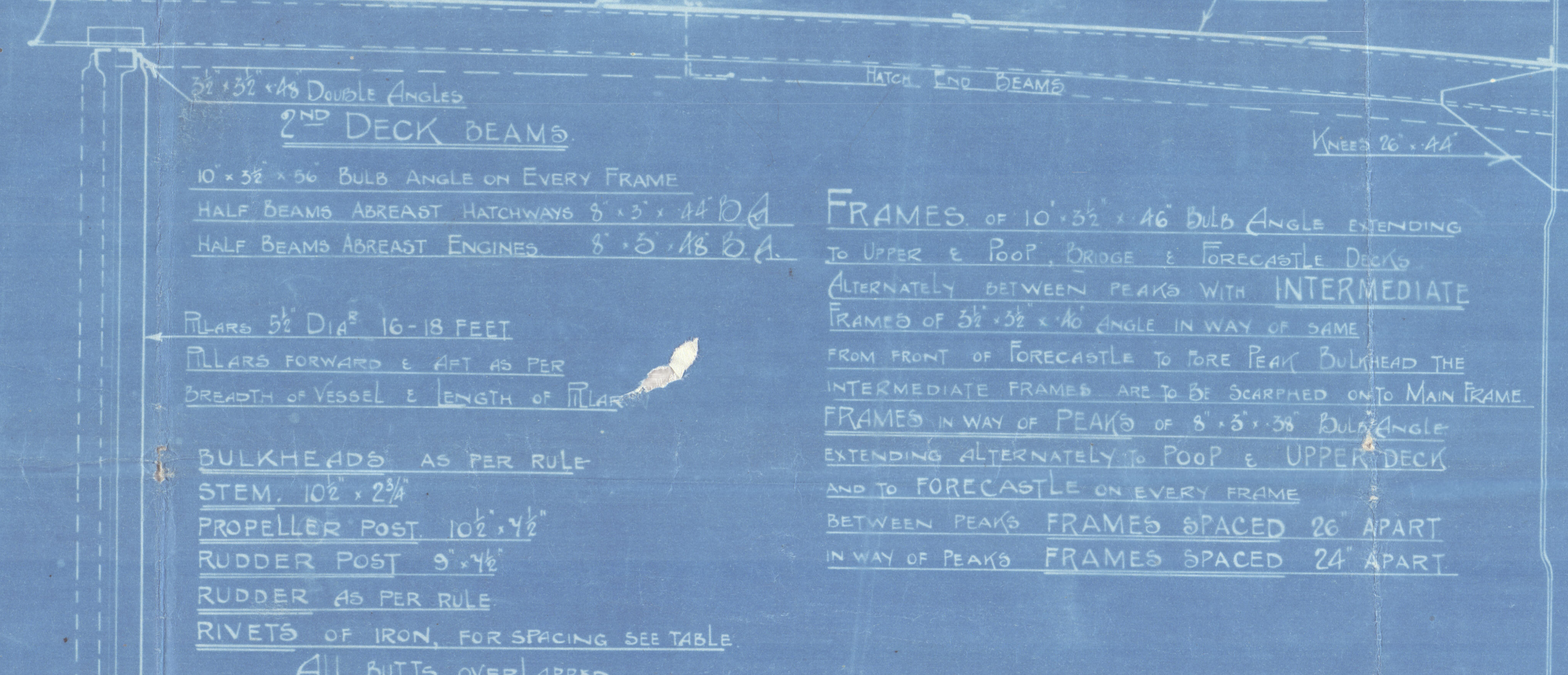
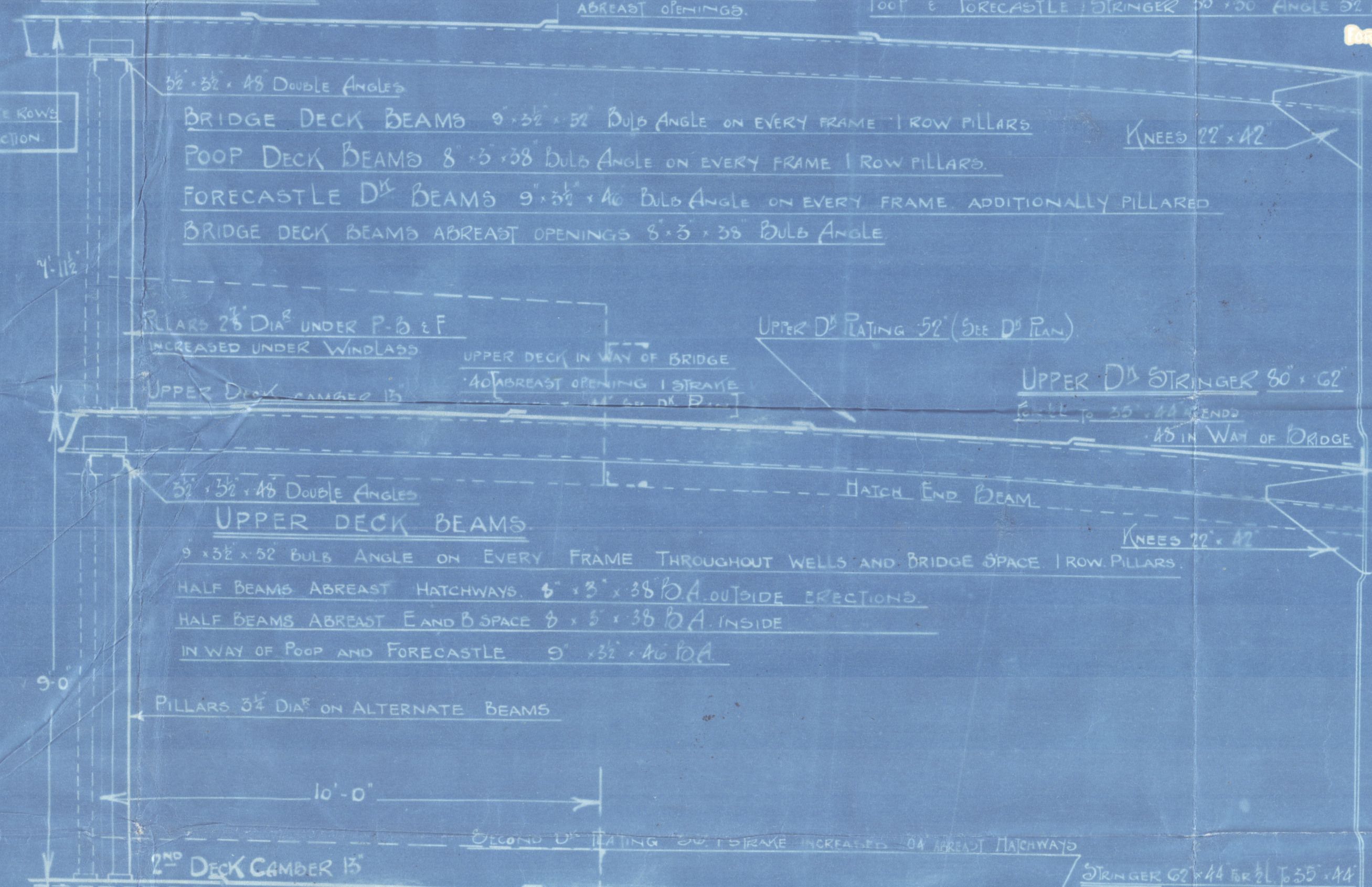
TO CLASS 100 A1 AT L.R.

Scale 1/2" = 1 Foot

BRIDGE DECK CAMBER 15

BRIDGE DECK RATING 40

BRIDGE DECK STRINGER 55' 50" ANGLE 6' 6" 45



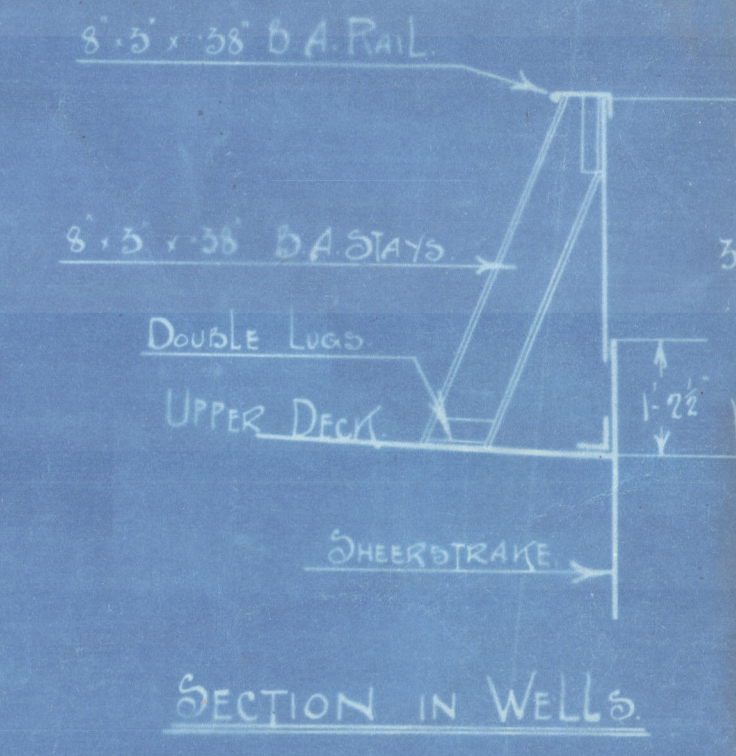
NOTE - 3 STRAKES OF PLATING TO HAVE MIDSHIP THICKNESS CARRIED FORWARD TO COLLISION BULKHEAD

## EQUIPMENT

### EQUIPMENT NUMBER

HULL 400 (32+31) = 35200  
 POOP BRIDGE & FLE 200 x 5 x 75 = 1200  
 DECKHOUSE 31 x 5 x 75 = 1125  
 35200

2 POWER ANCHORS 60,000 LBS EACH  
 1 STREAM 164' x 5' 6" STOCK  
 1 KEDGE 7' x 1' x 1' x 1'  
 270 FATHOMS 2 1/2" STUD LINK GAIN CABLE  
 30 1 1/2" STREAM CHAIN 48' 4 1/2" SW ROLL  
 120 1 1/2" HEMP HAWSER OR 4 1/2"  
 20 FT 90' 5' OR 2 1/2"  
 20 FT 90' 7' WARPDS OR 2 1/2"



STRINGER ANGLE 6' 6" 35 FOR 1/2 L TO 1/4 AT ENDS  
 32' 32' x 48' IN WAY OF BRIDGE 1/4 IN WAY OF POOP & FORECASTLE  
 SHELL CHECKS 3 1/2 x 3 1/2 x 1/2 IN WAY OF BRIDGE AND  
 1/4 IN WAY OF POOP & FORECASTLE

K. SHEERSTRAKE 41' 90 FOR 1/2 L TO 1/4 AT ENDS  
 64 IN WAY OF BRIDGE DOUBLING FITTED AT  
 ENDS OF BRIDGE

J. 1/4 FOR 1/2 L TO 1/4 AT ENDS  
 64 IN WAY OF BRIDGE

H. 1/4 FOR 1/2 L TO 1/4 AT ENDS  
 STRINGER ANGLE 3 1/2 x 3 1/2 x 1/4 FOR 1/2 L TO 1/4 AT ENDS

G. 1/4 FOR 1/2 L TO 1/4 AT ENDS

F. 1/4 FOR 1/2 L TO 1/4 AT ENDS

E. 1/4 FOR 1/2 L TO 1/4 AT ENDS

## STEEL SECTIONS

COMPLETE LIST OF SECTIONS USED IN BUILDING THIS VESSEL

9' 5 1/2" BULB ANGLE
8' 0" BULB ANGLE
10' 0" BULB ANGLE
6' 0" BULB ANGLE
3 1/2 x 3 1/2
3' 5"

**SHELL** KEEL BUTTS OVERLAPPED AND 4R WHERE OVER 70' REMAINDER 3R  
 BUTTS OF A TO D STRAKES OVERLAPPED AND 4R FOR 1/2 L REMAINDER 3R EXCEPT  
 WHERE STRAKES ARE 54 WIDE WHEN BUTTS ARE TO BE 5R FOR 1/2 L  
 BUTTS OF E TO H STRAKES OVERLAPPED AND 5R FORE AND AFT  
 BUTTS OF J STRAKE OVERLAPPED AND 4R WHERE OVER 68' REMAINDER 3R  
 J 5R IN WAY OF BRIDGE  
 BUTTS OF SHEERSTRAKE OVERLAPPED AND 5R WHERE OVER 84' FOR 1/2 L AND  
 OUTSIDE 1/2 L OVERLAPPED AND 4R WHERE OVER 68' TO 5R AT ENDS  
 BUTTS OF SHEERSTRAKE OVERLAPPED AND 5R IN WAY OF BRIDGE  
 BUTTS OF BRIDGE SIDE PLATING OVERLAPPED AND 3R WHERE FITTED IN  
 ONE STRAKE OVERLAPPED AND 4R WHERE FITTED IN 2 STRAKES  
 BUTTS OF POOP AND FORECASTLE SIDE PLATING OVERLAPPED AND 2R  
 SHELL LANDINGS 2R ALL FORE AND AFT EXCEPT IN POOP AND  
 FORECASTLE WHICH ARE 1R

**DECKS** UPPER DECK STRINGER BUTTS OVERLAPPED AND 4R WHERE OVER  
 68' REMAINDER 3R BUTTS 3R IN WAY OF BRIDGE  
 THE TWO UPPER DECK STRAKES ADJOINING STRINGER BUTTS OVERLAPPED AND 3R  
 WHERE OVER 48' OUTSIDE BRIDGE OVERLAPPED AND 2R IN WAY OF  
 BRIDGE OVERLAPPED AND 2R OUTSIDE 1/2 L WHERE OVER 48' AND  
 REMAINDER SINGLE  
 REMAINDER OF DECK BUTTS OVERLAPPED AND 2R FOR 1/2 L IN RATENS  
 LANDINGS EDGES 1R  
 BRIDGE STRINGER BUTTS OVERLAPPED AND 5R  
 BRIDGE PLATING 2R  
 POOP AND FORECASTLE STRINGER BUTTS OVERLAPPED AND 2R  
 PLATING 1R

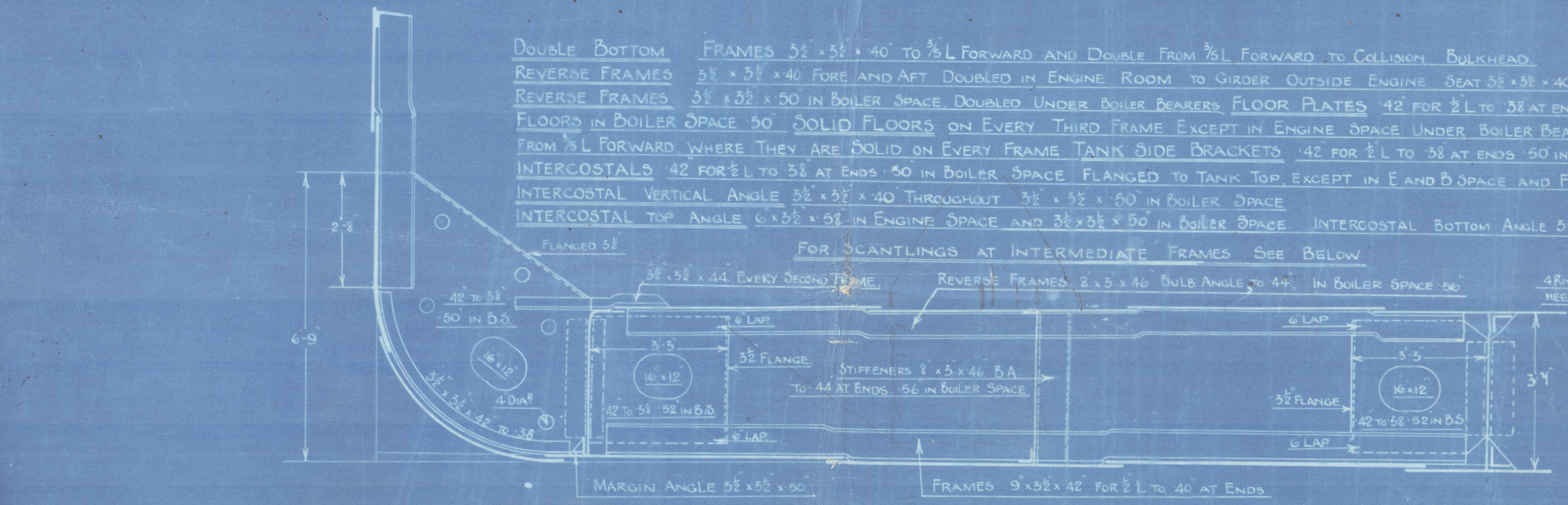
**DOUBLE CENTRE STRAKE** BUTTS OVERLAPPED AND 5R FOR 1/2 L WHERE OVER  
 42' REMAINDER 2R  
 PLATING BUTTS OVERLAPPED AND 2R FOR 1/2 L REMAINDER 1R AT ENDS  
 MARGIN PLATE BUTTS OVERLAPPED AND 5R FOR 1/2 L REMAINDER 2R AT ENDS  
 CENTRE GIRDER BUTTS OVERLAPPED AND 5R FORE AND AFT

**RIVETS IN SHELL** BUTTS AND LANDINGS - FORTH  
 KEEL RIVETS TO BE 1 1/2 DIA<sup>2</sup> WHERE PLATE IS OVER 88' REMAINDER TO BE 1 RIVET  
 SHELL PLATING RIVETS TO BE 1 DIA<sup>2</sup> WHERE PLATING EXCEEDS 66' 1/2 DIA<sup>2</sup> RIVETS  
 WHERE PLATING IS OVER 46' AND NOT EXCEEDING 66' AND 1/2 DIA<sup>2</sup> WHERE  
 PLATING IS 48' AND UNDER

**UPPER DECK** RIVETS THROUGH BUTTS AND LANDINGS OF STRINGER AND ADJOINING  
 STRAKE IN WELLS TO BE 1 1/2 DIA<sup>2</sup> WHERE PLATING IS OVER 48' AND RIVETS  
 THROUGH BEAMS TO BE 1 1/2 DIA<sup>2</sup> WHERE PLATING IS OVER 48'

**2<sup>ND</sup> DECK** STRINGER BUTTS OVERLAPPED AND 5R FORE AND AFT  
 PLATING BUTTS OVERLAPPED AND 2R FOR 1/2 L AT ENDS  
 LANDINGS EDGES 1R FORE AND AFT

**NOTE** - WHERE IT IS DESIRED TO USE 7/8 RIVETS INSTEAD OF 3/4  
 RIVETS THE SAME SPACING IN DIA<sup>2</sup> CAN BE ADOPTED



**SECTION AT BRACKET FLOOR**  
 SOLID FLOORS EVERY THIRD FRAME

FLAT PLATE KEEL 47 X 100 FOR 1/2 L TO 1/4 AT ENDS



Standard Vessels

"B" Type

Midship Section

Hatchways 20 ft broad

S/S. "War Snake" Del. 8002  
Harland & Wolff. N<sup>o</sup> 538. 9/18.

Workman Clark & Co. N<sup>os</sup> 441-2-3-4-5



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