

# 'SOCOTRA'

## T.S.M.S No 691

### MIDSHIP SECTION

SCALE: 1/2" = ONE FOOT.

PLAN No A.2

**MOULDED DIMENSIONS:- 455'-0" x 62'-6" x 40'-9" TO SHELTER DECK.**  
**TO CLASS 100 A.I. AT LLOYDS WITH FREEBOARD CORRESPONDING**  
**TO THAT OF A COMPLETE SUPERSTRUCTURE VESSEL WITH**  
**TONNAGE OPENING.**

#### TONNAGE OPENING CLOSED.

**NUMERALS**

L x D	[455 x 40.25]	= 18313.75
L [B+D]	455 [62.5 + 40.25]	= 46751.25
D		40.25
L/D TO SHELTER DK	455/40.25	11.17
d' CLEAR OF MOTOR ROOM		18.04
d' IN MOTOR ROOM		16.20

**FRAME SPACING**

IN PEAKS	24"
3/5 L FORD TO COLLISION BHD	27"
ELSEWHERE (RULE 33 3/8)	23"

STEM	10 1/2" x 2 3/4"
STERNFRAME	SEE PLAN
EQUIPMENT	TO RULE

#### BOTTOM SCANTLING

ITEM	1/2 L. AMIDSHIPS	ENDS	REMARKS	MOTOR ROOM
CENTRE GIRDER	44" x 56" 44" x 56"	48" x 48"		66" x 56"
" " BTM ANG	5" x 5" 56" 5" x 56"	52" x 52"	DOUBLE ALL F+A.	5" x 5" 56"
" " TOP "	3 1/2" x 3 1/2" 56" 3 1/2" x 50"	46" x 46"	DOUBLE ALL F+A.	3 1/2" x 3 1/2" 50"
" " VERT. "	3 1/2" x 3 1/2" 46" 5" x 3 1/2" 46"	48" x 48"		3 1/2" x 3 1/2" 48" DAL.
SIDE GIRDERS	40" x 40"	40" x 40"		SEE DETAIL
" " BTM ANG	3 1/2" x 3 1/2" 48" 3 1/2" x 48"	48" x 48"	3/2 TO SHELL	" " "
" " TOP "	3 1/2" x 48" 3 1/2" x 48"	48" x 48"		" " "
" " VERT. "	3 1/2" x 42" 5" x 3 1/2" 42"	42" x 42"		" " "
FLOORS	44" x 44"	44" x 44"	SOLID THROUGHOUT	" " "
" " W.T.	52" x 52"	52" x 52"		52"
W.T. FLOOR STIFFS	6" x 3 1/2" 32" 6" x 3 1/2" 32"	32" x 32"	SPACED 30"	6" x 3 1/2" 48" BA.
FLOOR FRAMES	3 1/2" x 3 1/2" 48" 3 1/2" x 48"	48" x 48"	DOUBLE FORD OF 1/2 L FORD	SEE DETAIL
" " REV FRS	3 1/2" x 48" 3 1/2" x 48"	48" x 48"		" " "
TANK MARGIN	26 1/2" x 56" 39 1/4" x 56"	56" x 56"		" " "
" " SHELL ANG	3 1/2" x 3 1/2" 56" 4 1/4" x 56"	56" x 56"		4 1/4" x 56"
" " VERT. (IN)	3 1/2" x 3 1/2" 48" 6 1/2" x 55 T	48" x 6 1/2" x 55 T	SEE PROFILE FOR PAINTING	6 1/2" x 55 T
" " (OUT)	3 1/2" x 3 1/2" 48" 6 1/2" x 55 T	48" x 6 1/2" x 55 T		6 1/2" x 55 T
" " SIDE BKT.	46" x 46"	46" x 46"	FACE ANG. 3 1/2" x 46"	46"
" " TOP CR. STRAKE	56" x 56" 75" x 54"	46" x 46"		SEE DETAIL
" " PLATING	48" x 48"	42" x 42"	+ 108" UNDER HATCHES	" " "

#### RIVETING

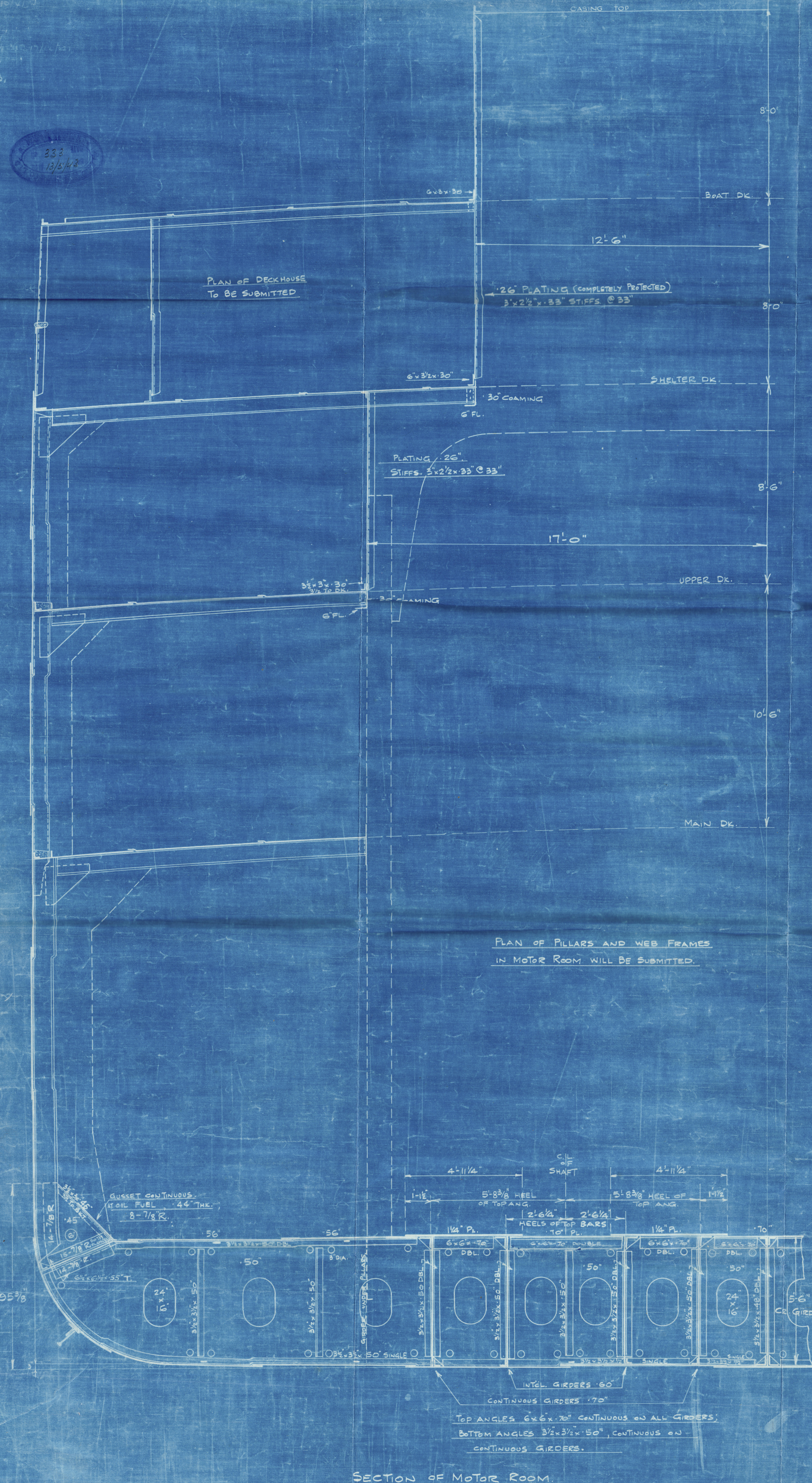
ITEM	END LAPS	EDGE LAPS
	1/2 L.	ENDS
KEEL	4	2
SHELL BOTTOM	4	2
" " SIDE	3	2
SHEERSTRAKE	4	2
STRAKE UNDER SHEERSTRAKE	4	2
CENTRE GIRDER	3	2
MARGIN	3	2
TANK TOP CR. STRAKE	3	2
" " PLATING	2	2
MAIN DK. STRINGER	1	1
" " PLATING	1	1
UPPER " STRINGER	3	2
" " PLATING	2	1
SHELTER " STRINGER	4	3
" " PLATING	3	1
ALL DECK INSIDE OPENINGS	1	1

#### SPACING OF RIVETS IN DOUBLE BOTTOM.

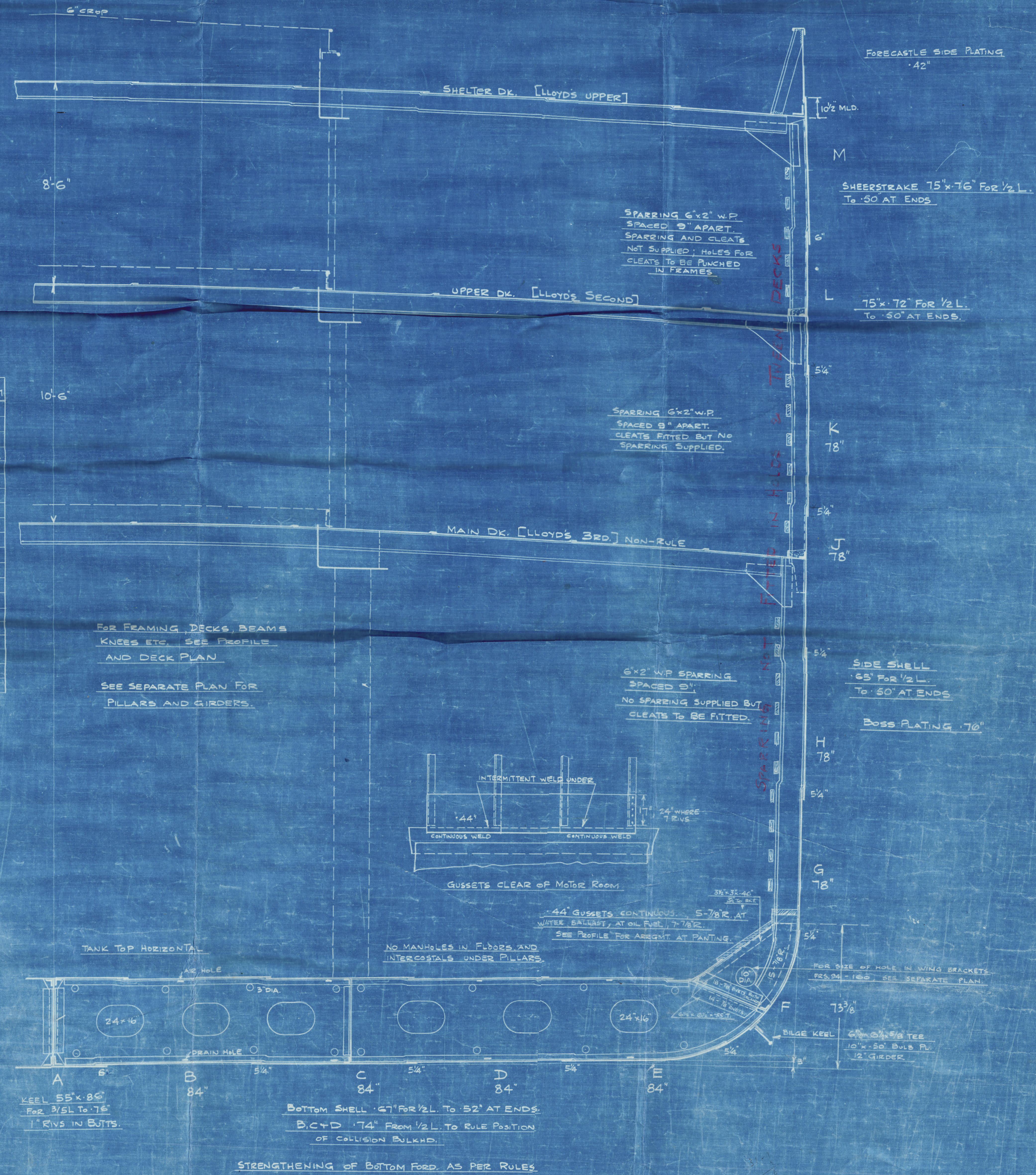
FRAMES TO SHELL 6" DIAS. TO FLOOR 7" DIAS. BOTH FLS. FORD OF 1/2 L F 5 1/2" DIAS.  
 REV FRAMES 7" DIAS. BOTH FLS. (CLEAR OF MOTOR ROOM)  
 CR GIRDER BOTTOM ANGLES BOTH FLS 5" DIAS.  
 " " TOP " 7" DIAS.  
 " " VERT " 5" DIAS.  
 SIDE GIRDER VERT ANG. 7" DIAS. (CLEAR OF MOTOR RM.)  
 TANK MARGIN SHELL ANG. 4 1/2" DIAS.

#### SPACING OF RIVETS IN SIDE FRAMES

5 1/2" DIAS. IN PEAKS, OIL FUEL BUNKERS AND AT PAINTING.  
 ELSEWHERE 6" DIAS.



SECTION OF MOTOR ROOM



STRENGTHENING OF BOTTOM FORD. AS PER RULES.



Barclay Curle & Co L<sup>d</sup>

N<sup>o</sup> 691.

M/V. "SOCOTRA"

Midship Section (as built).

Glasgow Rps No 67107.

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