

NOS. 561-2.  
MIDSHIP SECTION.  
SCALE: 1/2" = ONE FOOT.

MLD DIMS 435'-0" x 57'-6" x 37'-3" TO UPPER DECK.  
28'-3" TO 2ND DECK. 20'-3" TO 3RD DECK.



ALEXANDER STEPHEN & SONS, LTD.  
SHIPBUILDERS & ENGINEERS  
GLASGOW  
PLAN NO. 1  
DATE 24-5-37

TO CLASS 100 A1 WITH FREEBOARD CORRESPONDING TO THE DRAFT  
CONTEMPLATED BY THE RULES FOR A C.S.S. VESSEL WITH TONNAGE OPENING.  
TIMBER FREEBOARD ALSO REQUIRED

LLOYDS NUMERALS

L x D	=	435 x 36.25	=	15770
L x (B + D)	=	435 x (57.5 + 36.25)	=	40782
D TO UPPER DECK	=	435 x 37.25	=	11.68
d PAINTING	=	21.75 x 5 (REDUCED 90°)	=	22.25
d N°2 HOLD (1/2 L TO PAINTING)	=	18.99 x 5 ( " )	=	19.49
d N°2 HOLD (AFT OF 1/2 L) & DEEP TANKS	=	16.59 x 5 ( " )	=	17.09
d ENGINE ROOM	=	20.5 x 4.5	=	15.75
d N°3 & 4 HOLDS	=	20.5 x 4.5	=	15.75
D FOR FRAMING	=	36.25	=	15.42

EQUIPMENT NUMBER

L x (B + D)	=	435 x (57.5 + 37.25)	=	41216.25
FORECASTLE	=	40 x 7.5 x 7.5	=	224
SALOON HOUSE	=	30.25 x 8 x 50	=	118.12
ENGINEERS HOUSE	=	11.48 x 8 x 50	=	182.13
AFTER HOUSE	=	46 x 8 x 50	=	184
				42147.25

EQUIPMENT

ANCHORS	2	BOWER ANCHORS EACH 725 CWT. STOCKLESS	
	1	ANCHOR	62
	1	STREAM	202
CHAIN CABLE	300 FMS.	2 1/2" STUD LINK CHAIN CABLE	
STREAM CHAIN OR WIRE	120 FMS.	1 3/8" STREAM CHAIN OR 5" (6/12) F.S.W.	
TOW LINE	30 FMS.	5" (6/24) S.F.S.W.	
HAWSERS	2 @ 100 FMS.	8" HEMP OR 2 3/4" (6/12) F.S.W.	
WARPS	2 @ 100 FMS.	8" HEMP OR 2 3/4" (6/12) F.S.W.	

STEM 10' x 24"

OWNERS EXTRAS: as shown on plan.  
ENGINE ROOM D.B. TANK: FLOORS & INTERIOR ATTACHMENT ANGLES TO BE 7/8" OVER RULE.  
BOILER ROOM TANK: TOP PLATING UNDER BOILERS AND ALL FLOORS INTERIOR ATTACHMENT ANGLES IN TANK.  
CEILING: TANK TOP PLATING IN DEEP TANK TO BE OF THICKNESS REQUIRED BY RULE WITH NO CEILING FITTED (16" + 0.05 OVER RULE UNDER HATCH).  
FORE & AFT PEAK BULKHEADS: PLATING INCREASED .05 OVER RULE & STIFFERS SPACED 21" APART.  
UPPER & 2ND DECK: ALL PLATING INCREASED .30 OVER RULE.  
SPECIAL ATTACHMENT OF TANK WING BRACKETS & FLOORS TO MARGIN.

Scallings of double bottom in engine space to be further considered.

DOUBLE BOTTOM

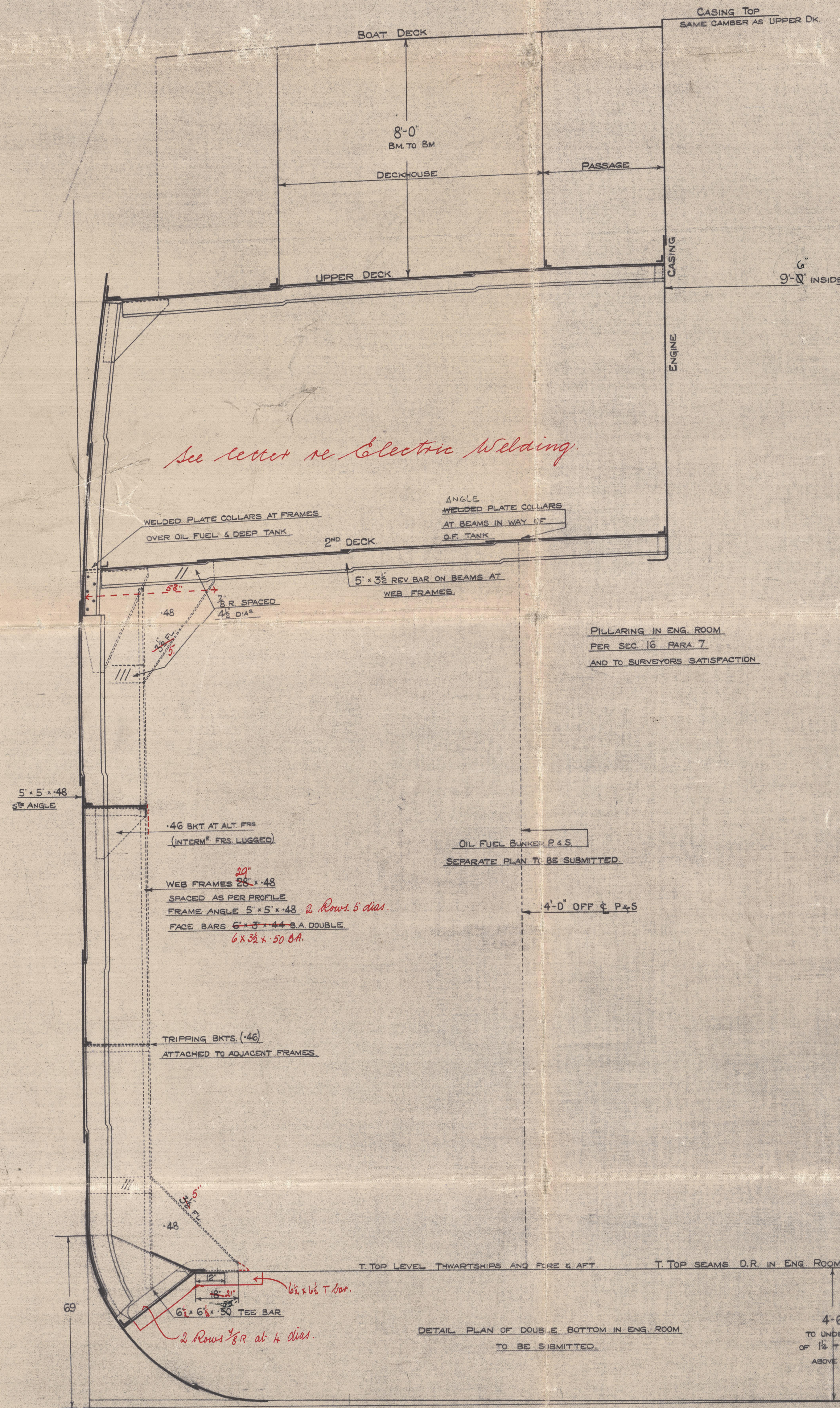
SAFETY	1/2 LENGTH	ENDS	ENG SP
48" - 48" CENTRE GIRDER	44" x 54"	46"	
	TOP ANGLE 3 1/2" x 3 1/2" x 48"	3 1/2" x 3 1/2" x 44"	3 1/2" x 48" DOUBLE
	BOTT ANGLE 5" x 5" x 54"	5" x 5" x 50"	5" x 54" DOUBLE
41" SOLID FLOORS (SPACED 7'-0")	.42	.42	.52
41" INTERIOR BKT FLOORS	.42	.42	.57
W.T. FLOORS	.50	.50	.50
STIFFERS ON W.T. FLOORS	44" FMS.	44" FMS.	44" FMS.
44" FRAMES ON SOLID FLOORS	3 1/2" x 3 1/2" x 46"	3 1/2" x 3 1/2" x 46"	3 1/2" x 46"
	W.T.	W.T.	W.T.
44" REV FBS ON SOLID	3 1/2" x 3 1/2" x 46"	3 1/2" x 3 1/2" x 46"	3 1/2" x 46"
	W.T.	W.T.	W.T.
FRAMES ON BRACKET	6" x 3 1/2" x 42 1/2"	6" x 3 1/2" x 42 1/2"	-
REV FBS	6" x 3 1/2" x 42 1/2"	6" x 3 1/2" x 42 1/2"	-
INTERIOR PLATES	.38	.38	.42
44" TOP ANGLES	3" x 3" x 48"	3" x 3" x 48"	3 1/2" x 48"
44" BOTTOM	3 1/2" x 3 1/2" x 48"	3 1/2" x 3 1/2" x 48"	3 1/2" x 48"
44" VERT ANGLES ON C GIRDER	3 1/2" x 3 1/2" x 48"	3 1/2" x 3 1/2" x 48"	3 1/2" x 48"
	MARGIN 6" x 3 1/2" x 48"	6" x 3 1/2" x 48"	6" x 48"
39" INTERIOR	3" x 3" x 40"	3" x 3" x 40"	3" x 40"
	(B+D) 6" x 3 1/2" x 46"	6" x 3 1/2" x 46"	-
TANK TOP CENTRE STRAITS	.54	.54	.52
PLATING	.44	.40	.52
MARGIN PLATE	36" x 54"	54"	36" x 54"
ANGLE	3 1/2" x 3 1/2" x 54"	3 1/2" x 3 1/2" x 54"	3 1/2" x 54"
GUSSETS	.42	.42	.42
WING BRACKETS (35 FLOORS)	.43	.43	.43

ALL BULK ANGLE N.B.S.  
SEPARATE PLAN OF STRENGTHENING OF DOUBLE BOTTOM FOR 1/2 L TO BE SUBMITTED.  
INCREASES IN BOILER SPACES AS PER RULE

RIVETING OF TANK WING BRACKETS

IN WAY OF PAINTING	MARGIN OUTSIDE ANGLE	TO QUARTER FRAMES	MARGIN INSIDE ANGLE
N°1 HOLD (CLEAR)	12" x 18"	12" x 18"	12" x 18"
N°2 HOLD (OVER OIL)	12" x 18"	12" x 18"	12" x 18"
DEEP TANK	12" x 18"	12" x 18"	12" x 18"
ENGINE ROOM	12" x 18"	12" x 18"	12" x 18"
N°3 HOLD	12" x 18"	12" x 18"	12" x 18"
N°4 HOLD	12" x 18"	12" x 18"	12" x 18"

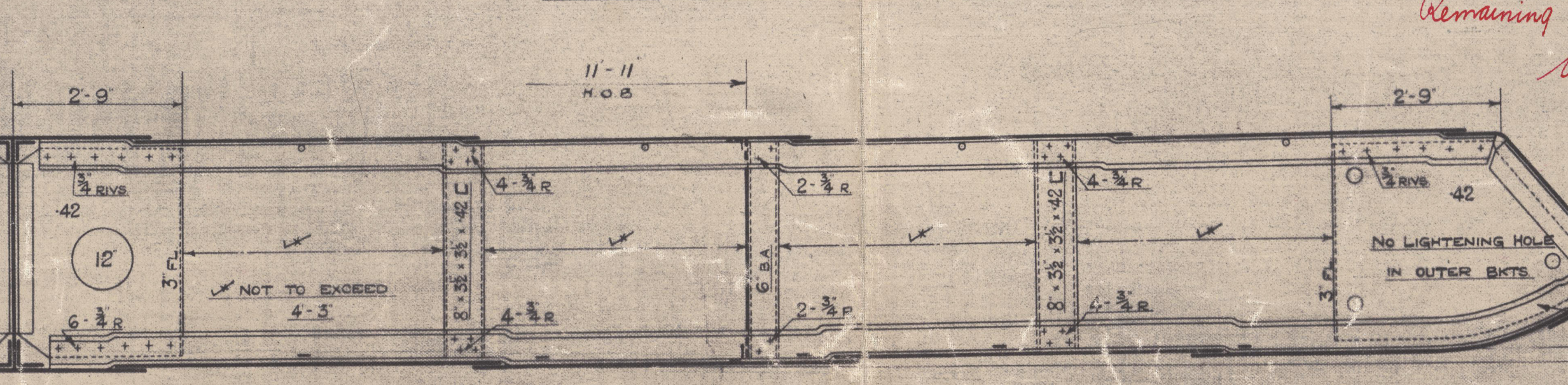
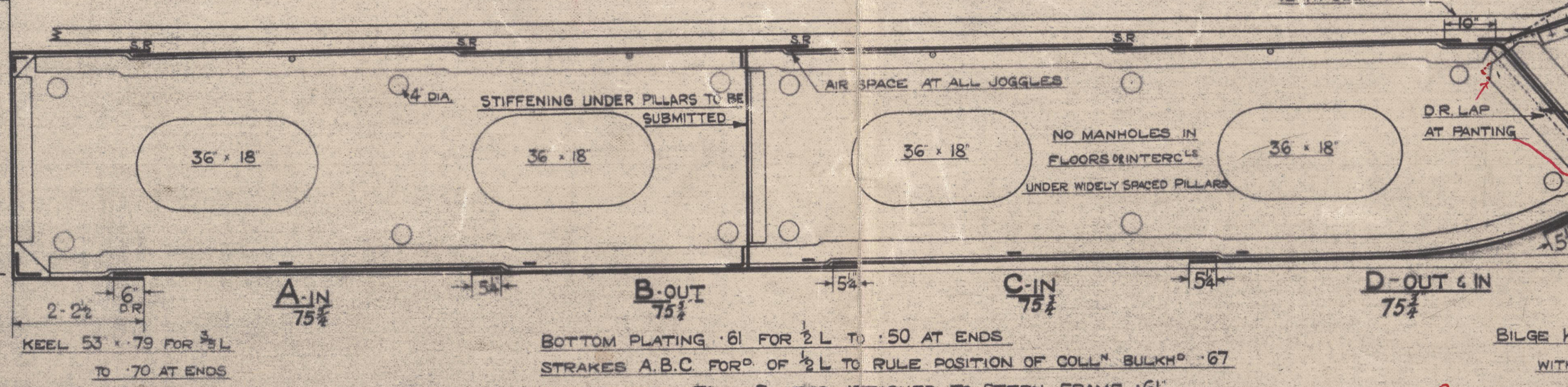
GUSSET TO MARGIN: 7" RIVS. SPACED 5 DIA.  
3/4" RIVS. THRO' FLOORS. REMAINDER OF RIVS. 7/8" DIA.  
RIVETS IN GUSSET TO WING BRACKET SPACED 4" APART.  
WIDTH OF LAP ON FRAME TO SUIT NUMBER OF RIVETS.



SIDE FRAMING ALL SECTIONS ARE BULK ANGLE N.B.S.

AFT PEAK	IN WAY OF TUNNEL ROSSER	NOS 3 & 4 HOLDS	ENGINE ROOM	OIL FUEL TANK	DEEP TANK	N°2 HOLD AFT OF 1/2 L	1/2 L TO 15% L	15% L TO COLLUM BHP	FORE PEAK
8' x 3 1/2" x 35"	31"	31"	31"	31"	31"	31"	31" to 27"	27"	24"
TO UPPER DK	TO 3RD DK	TO 3RD DK	TO 2ND DK	TO 2ND DK	TO 2ND DK	TO 2ND DK	TO 3RD DK	TO 3RD DK	TO FOLE DK
	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"	7' x 3 1/2" x 40"

THE REQUIREMENTS OF SECT 20 OF RULES TO BE COMPLIED WITH - FR OF OIL TO BE ABOVE 150°F  
TANK TOP COMPLETELY COVERED WITH CEILING (25 FMS) OVER OIL FUEL TANKS - 2" AIR SPACE BETWEEN CEILING & TOP OF TANK  
N°1 & 4 HOLDS (CLEAR OF OIL FUEL) AND DEEP TANK - 2" DUE UNDER SQUARE OF HATCHES (2" ALL ROUND)  
BEYOND HATCH NO AIR SPACE TANK TOP WHERE NO CEILING OVER OIL FUEL TO HAVE D.B. SEAMS.



SKETCH OF BRACKET FLOOR



1. x

Glasgow

Messrs. Alex. Stephen & Son Ltd

nos 561/2

Midship section

Prelim. Gbd

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561 Gbd

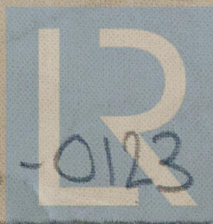
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