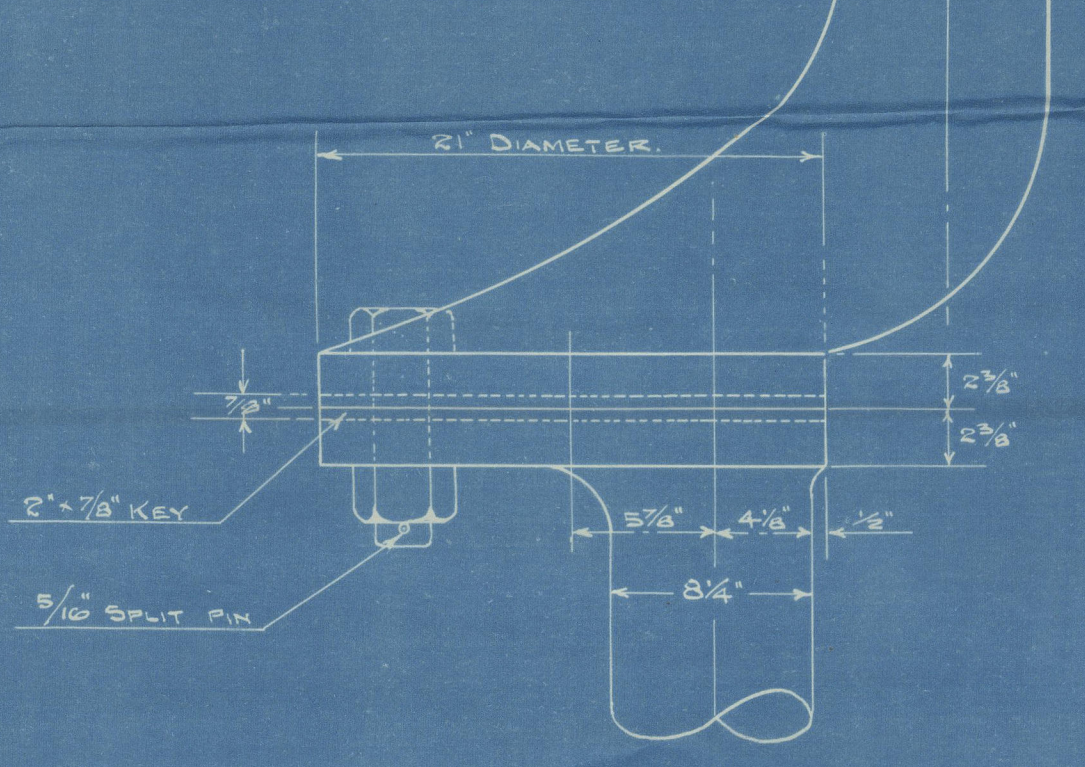
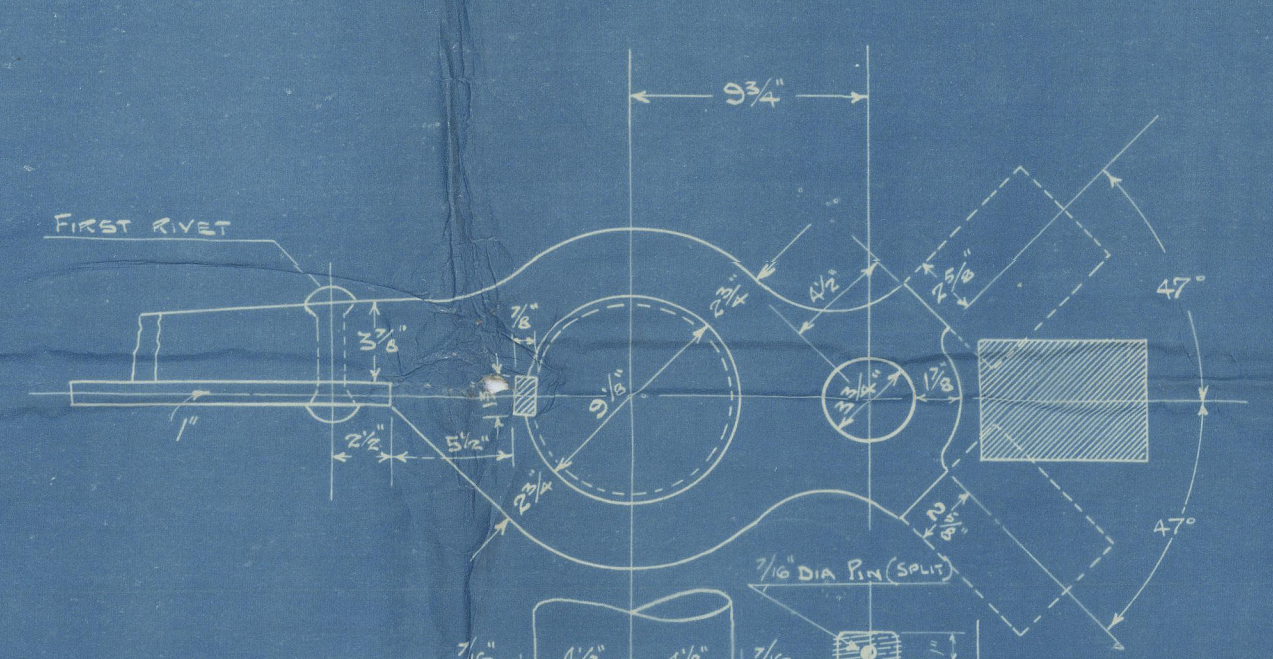


8 - 2 3/8" DIA. FITTED BOLTS WITH NUTS IN PROPORTION. SPLIT PIN TO BE FITTED TO PREVENT TURNING.

SECTIONAL AREA TO BE GRADUALLY INCREASED FROM STRAIGHT TO TOP OF COUPLING.



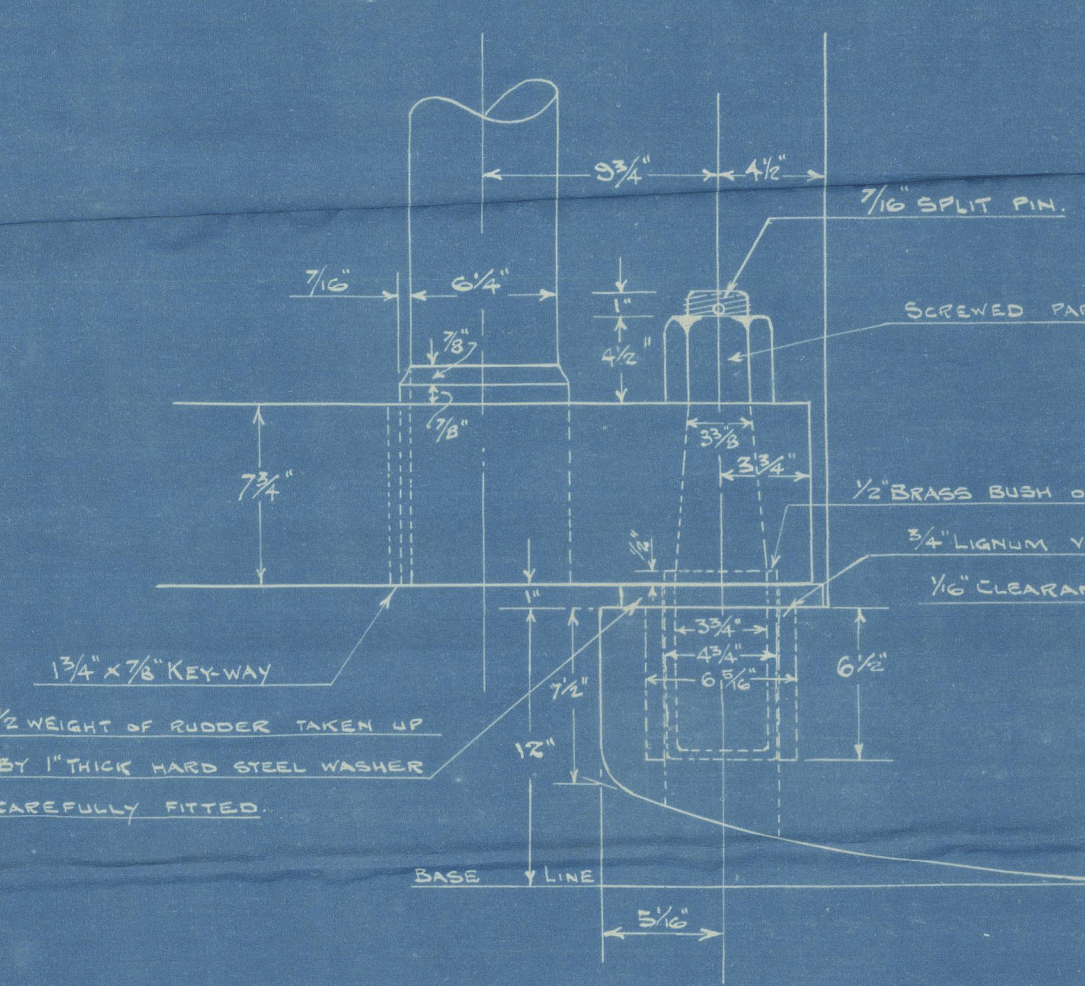
DETAIL OF COUPLING
SCALE 1 1/2" = 1 FOOT.



LOCKING PIN HEAD 8 1/2" DIA.

3/8" BRASS CHECK RING TO HOLD LITHIUM VITAE BUSH IN PLACE AND PERMIT OF THEIR REMOVAL WITHOUT DISTURBING RUDDER.

DETAIL OF LOCKING PINTLE
SCALE 1 1/2" = 1 FOOT.



DETAIL OF HEEL PINTLE
SCALE 1 1/2" = 1 FOOT.

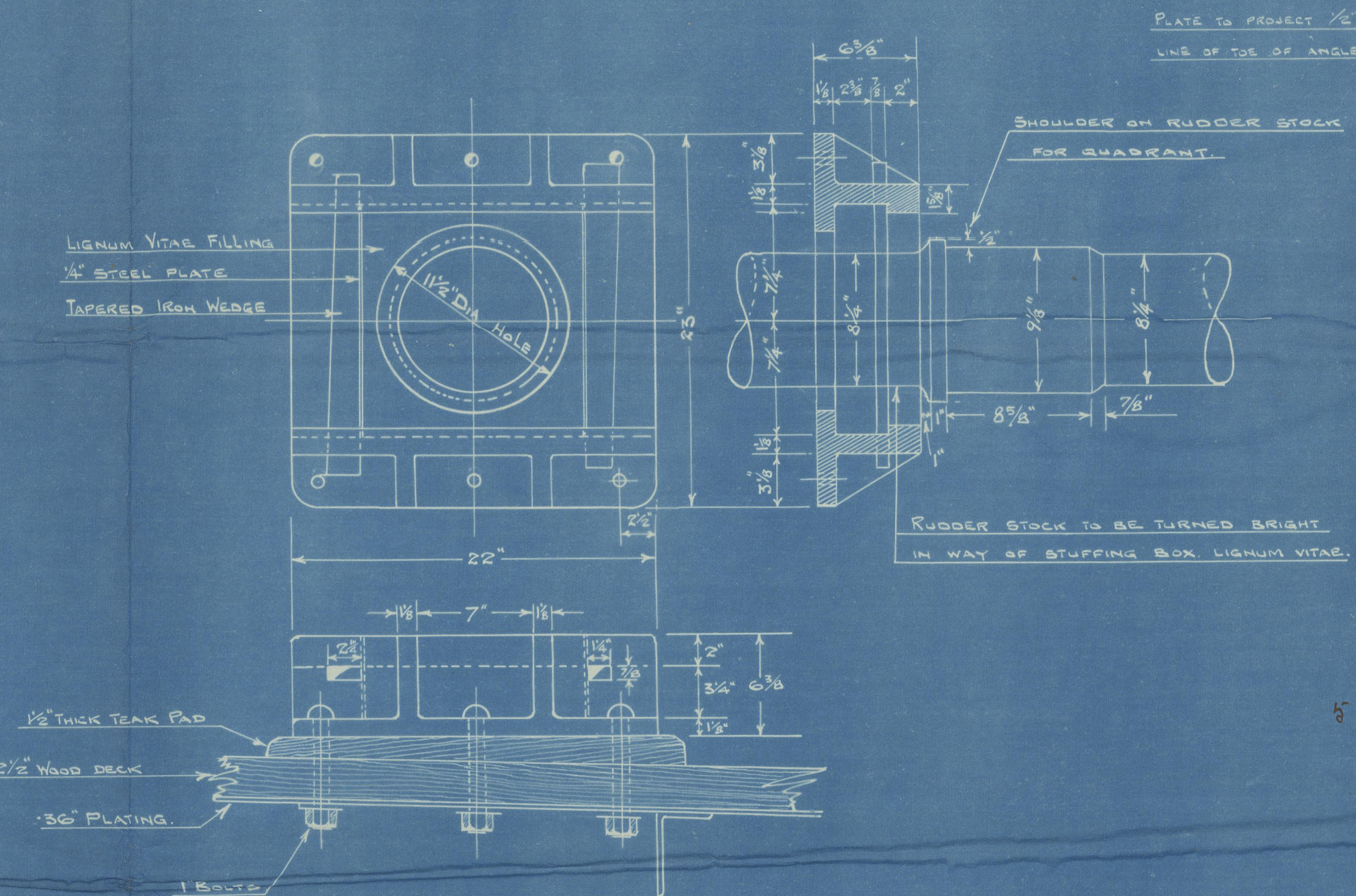
COMMON INTERVAL = 1/32 FT.

Nº	ORDINATE	S.M.	FUNCTIONS	ORDINATE	S.M.	FUNCTIONS
1	1.00	1	1.00	1.00	1	1.00
2	5.25	4	21.12	27.89	4	111.52
3	5.50	2	11.00	39.28	2	60.50
4	5.81	4	22.04	39.39	4	121.44
5	5.82	2	11.04	39.47	2	60.84
6	5.82	4	22.08	39.47	4	121.88
7	5.82	2	11.04	39.47	2	60.84
8	5.83	4	22.12	39.58	4	122.32
9	5.10	2	10.20	26.01	2	52.02
10	4.00	4	16.00	16.00	4	64.00
11	0.00	1	-	-	1	-
			147.64	776.56		
			1098 + 8	776.56 x 1		
			A = 83.42 sq. ft.	147.64		
				= 2.63 FT.		
				= 6.9 AFT.		

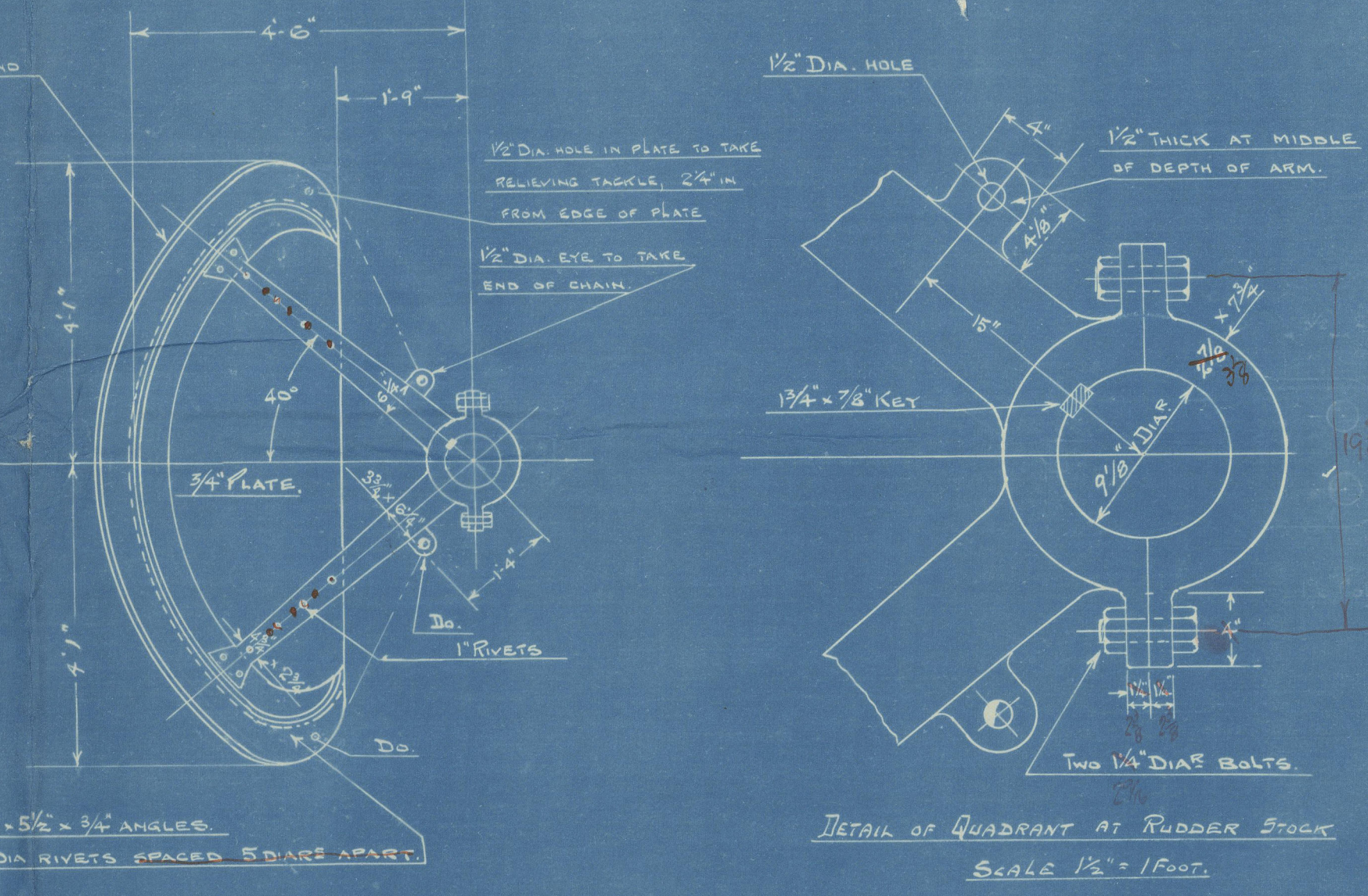
CENTRE OF PINTLES FORWARD OF RUDDER = 5.4 FT.

C.G. OF RUDDER AFT. OF CENTRE OF PINTLES = 5.17 FT = D.

A x D = 83.42 x 5.17 = 264.44.



DETAIL OF STUFFING BOX
1 OFF CAST IRON



DETAIL OF QUADRANT.
SCALE 1 1/2" = 1 FOOT.

S.S. Nº 479, + Nº 484

STERNPOST AND RUDDER
SCALE 1/2" = 1 FT.

STERNFRAME AND RUDDER TO BE OF FORGED STEEL.

STERN FRAME TO HAVE 3/4" ZINGS FITTED ROUND TOP AND BOTTOM, INSIDE STERNPOST APERTURE AND A CONTINUOUS SHOE FITTED ABOUT 7" 0" ABOVE AND BELOW CENTRE OF PROPELLER TO COVER INSIDE AND BOTH SIDES OF STERNPOST. ZING RING TO BE FITTED ROUND STERNPOST NUT.

GREAT CARE TO BE TAKEN IN SPRING PINTLES TO HAVE THEIR CENTRES PERFECTLY TRUE WITH CENTRES OF STOCK BOTH FORE AND AFT, AND AFTWARD.

A = TOTAL AREA OF RUDDER = 83.42 SQ. FT.

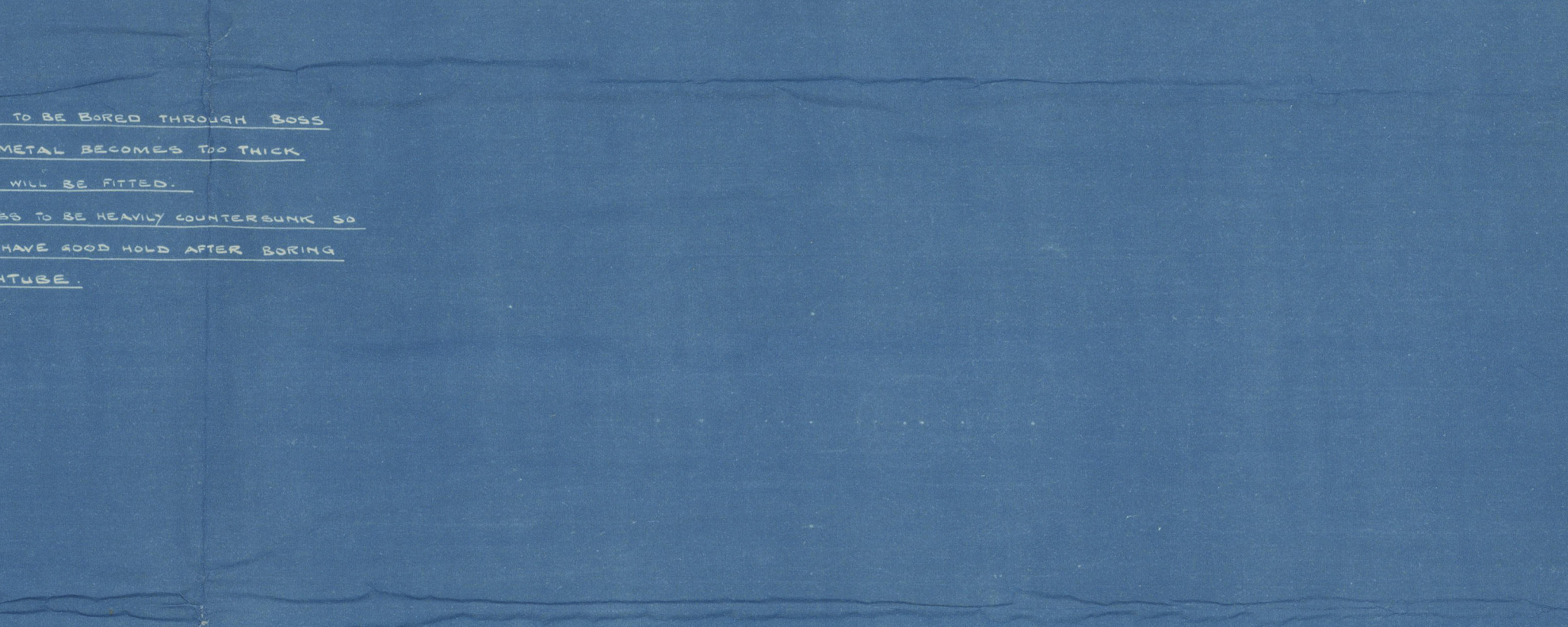
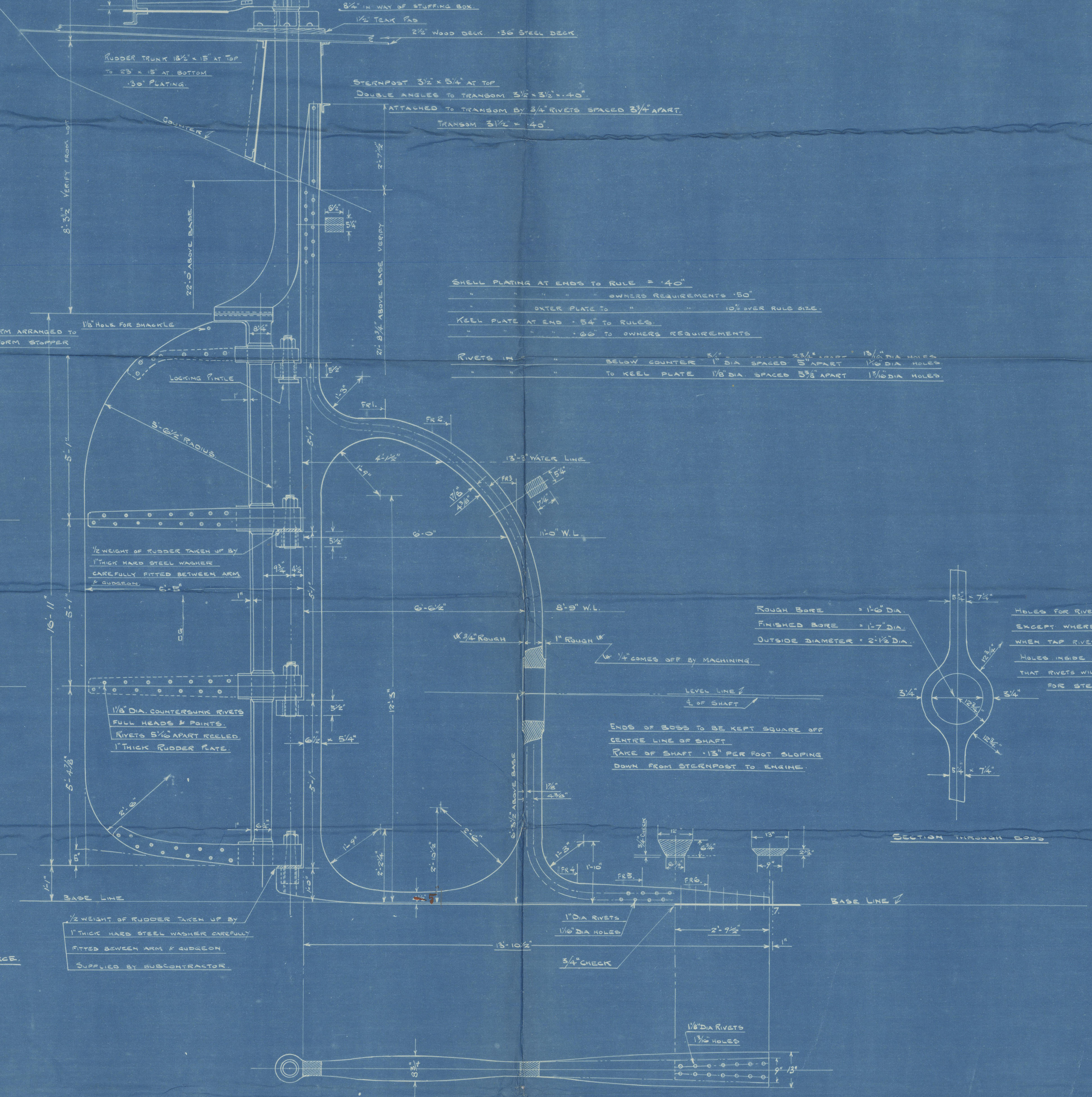
D = CENTRE OF GRAVITY OF RUDDER ABAFT CENTRE LINE OF PINTLES = 5.17 FT.

A x D = 264.44

SPEED OF VESSEL = 11 1/2 KNOTS

TO CLASS 100 A1 LLOYD'S 1921-1922 RULES

NOTE - OWNERS SPECIFY STOCK TO BE 1/2" OVER RULE SIZE, PINTLE NUTS TO BE 1 1/2 TIMES DIA. OF THE BOLTS, THE STEERING CHAINS TO BE 1 1/2" DIA., THE RODS 1 1/2" DIA. & SPRING BUFFERS AND TIGHTENING SCREWS SUITABLE FOR THESE SIZES.



ROUGH BORE 1 1/2" DIA. FINISHED BORE 1 1/4" DIA. OUTSIDE DIAMETER 2 1/2" DIA.

1/4" EDGES OFF BY MACHINING

LEVEL LINE 1/4" OF SHAFT

ENDS OF BOSS TO BE KEPT SQUARE AT CENTRE LINE OF SHAFT. RAKE OF SHAFT 1/8" PER FOOT SLOPING DOWN FROM STERNPOST TO ENGINE.

1 1/2" DIA. RIVETS 1 1/2" DIA. HOLES

3/4" CHECK


1 1/2" DIA. RIVETS 1 1/2" DIA. HOLES

SECTION THROUGH BOSS

APPROVED
LLOYD'S REGISTER OF SHIPPING
JPM

approval Nº 484

11-1-29

Bowmchachlau 
Steinpost & Rudder
Nº. 449.
Kalavati

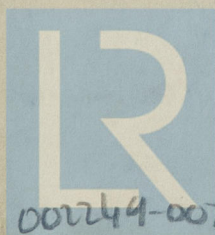
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"Daryavati"

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