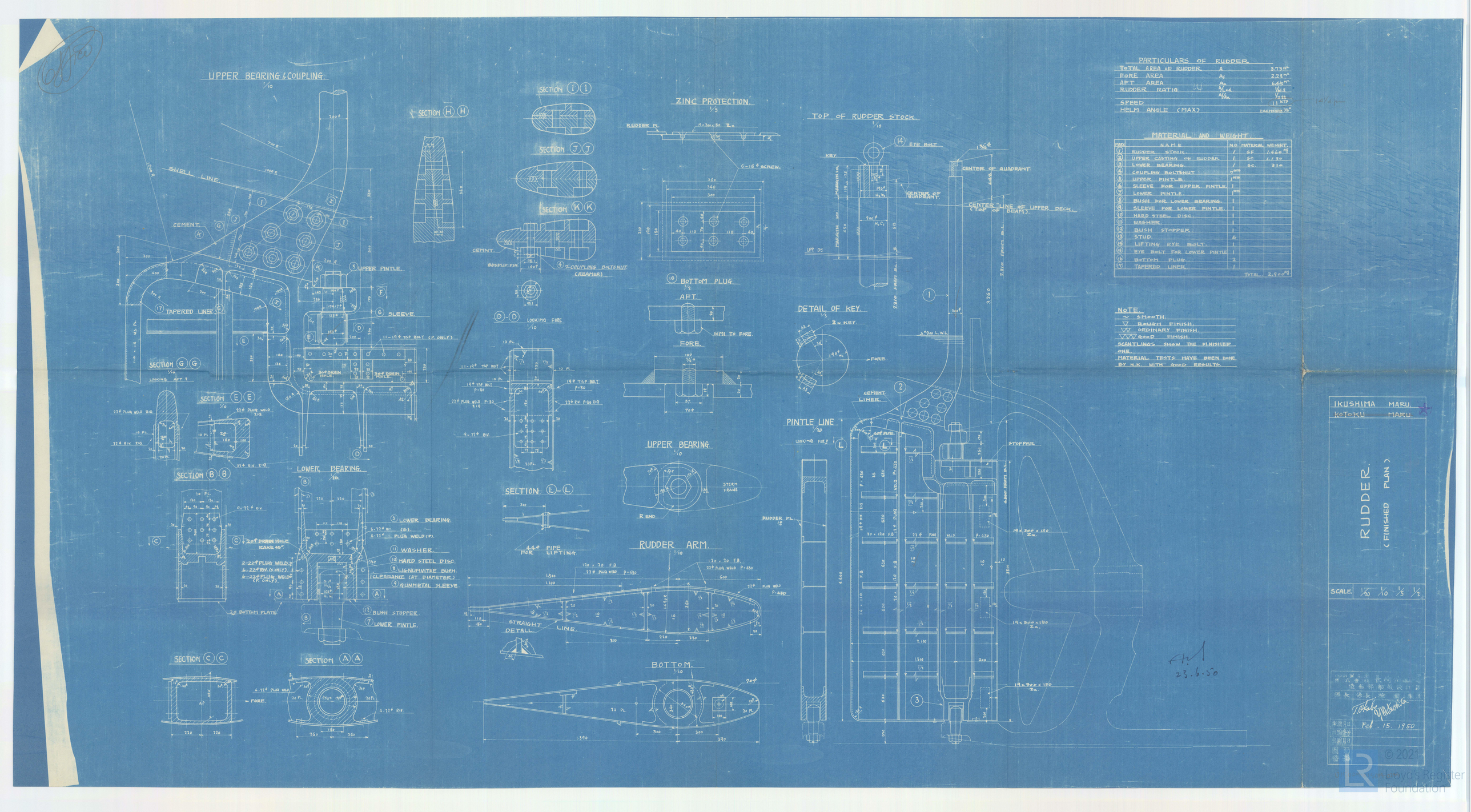

PARTICULARS OF RUDDER.

TOTAL AREA OF RUDDER.	A	8.73 m²
FORE AREA	A_f	2.28 m²
AFT AREA	A_a	6.45 m²
RUDDER RATIO	$A_f/A+A_a$	1/2.8
	A_f/A_a	1/2.83
SPEED		11 KTS
HELM ANGLE (MAX)		BACKWARD 35°

MATERIAL AND WEIGHT.

PART	NAME	NO	MATERIAL	WEIGHT
1	RUDDER STOCK.	1	SF	1,460 kg
2	UPPER CASTING OF RUDDER.	1	SC	1,130
3	LOWER BEARING.	1	SC	310
4	COUPLING BOLTNUT.	4	NICR	
5	UPPER PINTLE.	1	NICR	
6	SLEEVE FOR UPPER PINTLE.	1		
7	LOWER PINTLE.	1	NICR	
8	BUSH FOR LOWER BEARING.	1		
9	SLEEVE FOR LOWER PINTLE.	1		
10	HARD STEEL DISC.	1		
11	WASHER.	1		
12	BUSH STOPPER.	1		
13	STUD.	6		
14	LIFTING EYE BOLT.	1		
15	EYE BOLT FOR LOWER PINTLE	1		
16	BOTTOM PLUG.	2		
17	TAPERED LINER.	1		
		TOTAL		2,900 kg

NOTE.

- ~ SMOOTH.
- ▽ ROUGH FINISH.
- ▽▽ ORDINARY FINISH.
- ▽▽▽ GOOD FINISH.

SCANTLINGS SHEW THE FINISHED ONE.
MATERIAL TESTS HAVE BEEN DONE BY N.K. WITH GOOD RESULTS.

IKUSHIMA MARU.
KOTOKU MARU.

RUDDER.
(FINISHED PLAN.)

SCALE 1/10 1/10 1/5 1/2

Feb. 15. 1950

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