

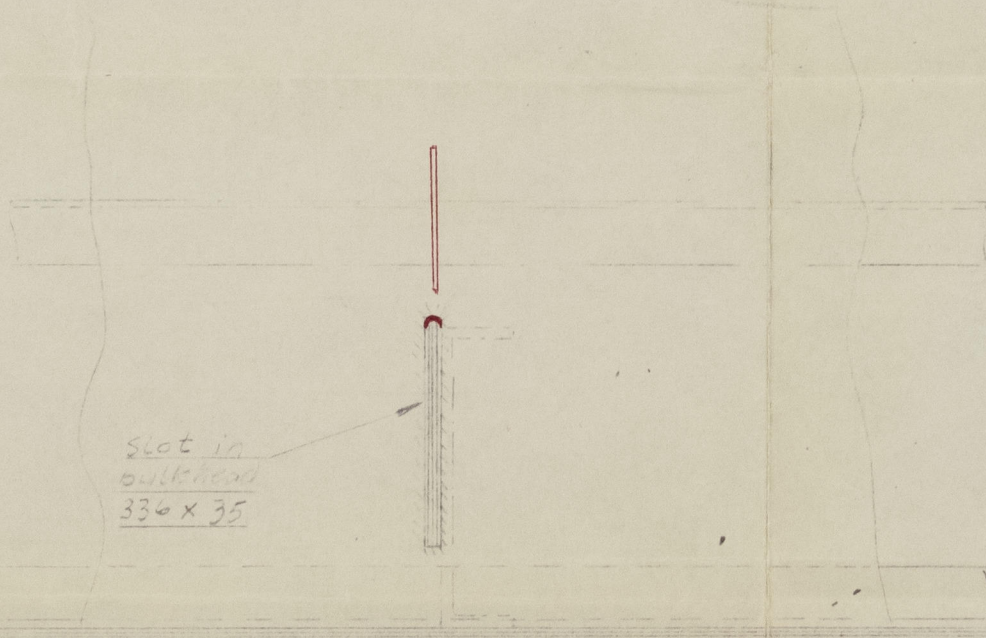
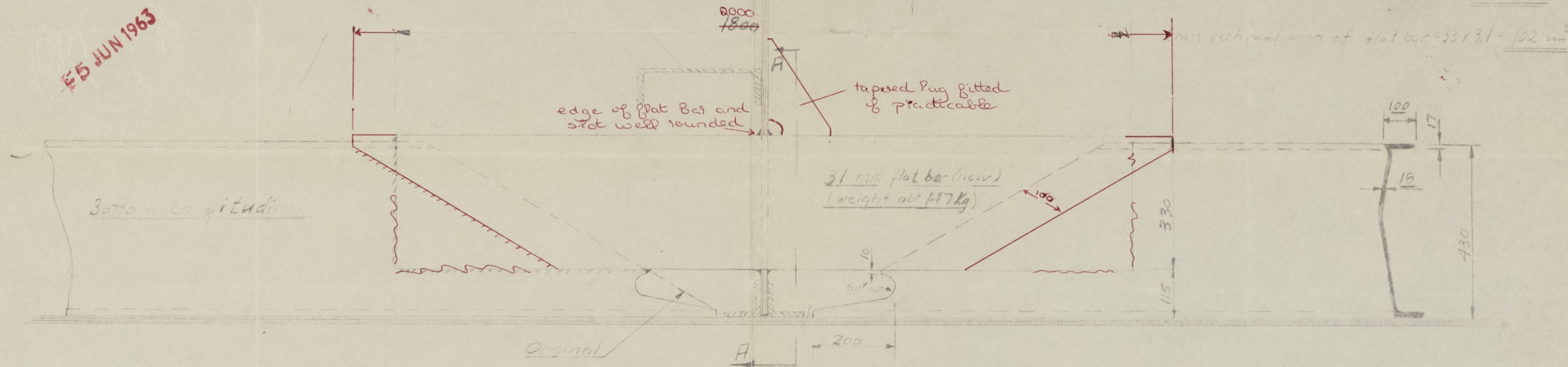
25 JUN 1963

Stiffener on bulkhead

Cross sectional area of L profile $430 \times 100 \times 18 \times 17 =$

106 cm^2
- rivet hole $= 4 "$
 102 cm^2

Cross sectional area of flat bar $= 33 \times 3.1 = 102 \text{ cm}^2$



Notes:

Strengthening to be applied to bottom longitudinals up to and including side frame no. 11, and for abt. 40% L midships, from fr. 69 to fr. 92 inclusive.

Snored end of existing longitudinal to be cut before welding.

Both connections to Longitudinals to be completely welded before making tightening weld around slot in bulkhead.

Welding $\Delta 5$ continuous to Bulkhead
 $\Delta 7$ " to Longitudinal

Total number to be fitted = 308

Total steel weight = 308 flat bars $\times 0.147 = \text{abt. 4.5 tons}$

5-6-63

Arnesen Christensen & Co. AS
16 MAJ 1963
Tekniske konsulenter
OSLO

SS/MS "Attached Oslo Rpt. 9866."

TO ACCOMPANY
ARNESSEN, CHRISTENSEN & CO. A/S, OSLO

T.S. M.V. "SIR JAMES CLARK RUSS."
SUBJECT: STRENGTHENING OF BOTTOM & SIDE LONGITUDINALS

TEGN. H.S. KFR. ATS DATO: 6-5-63 SCALE: 1:10 TEGN. NR.: 4264-A3