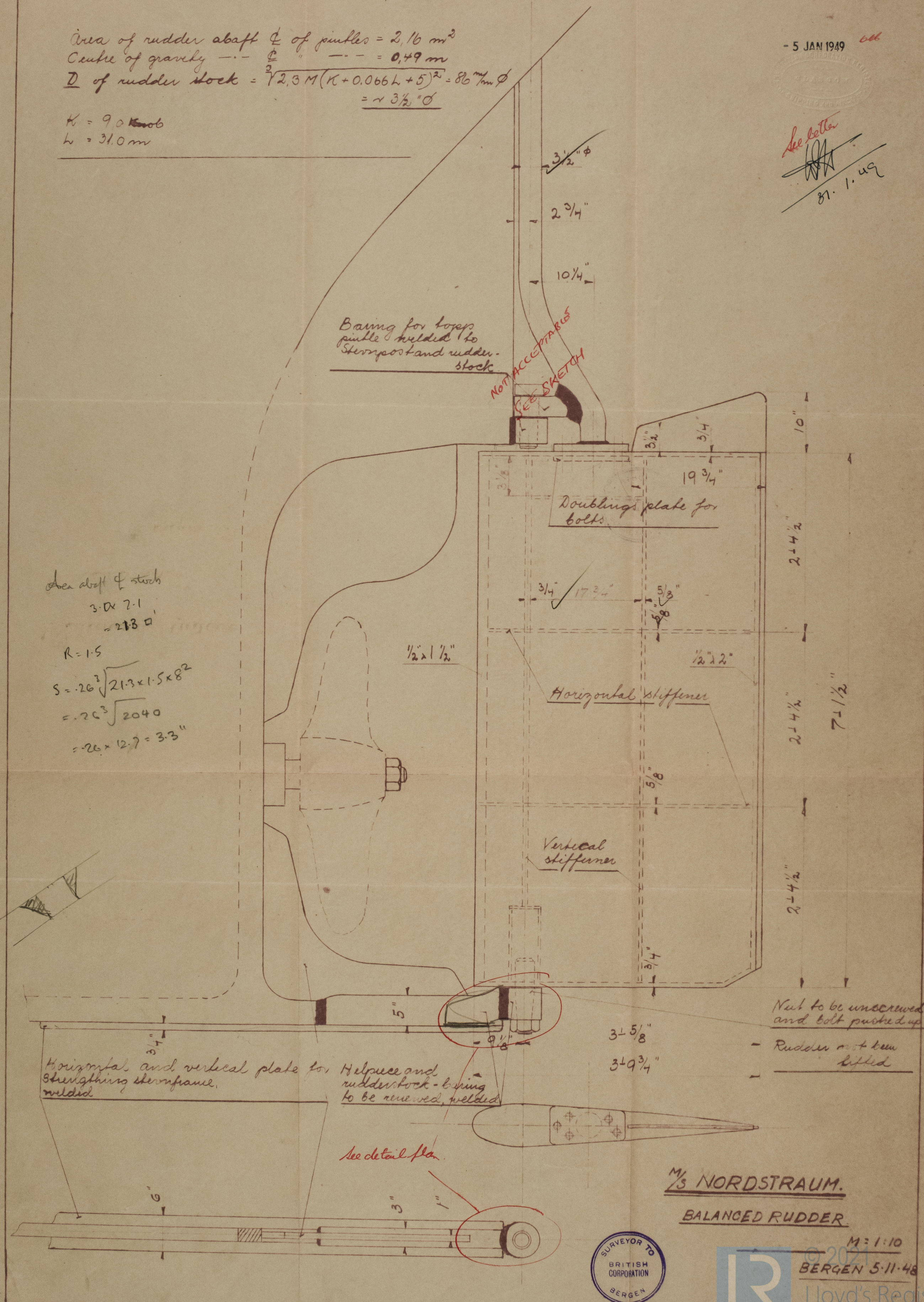


Area of rudder abaft ϕ of pintles = 2.16 m^2
 Centre of gravity --- ϕ --- = 0.49 m
 D of rudder stock = $\sqrt[3]{2.3 M (\kappa + 0.066 L + 5)^2} = 86 \text{ mm } \phi$
 $= \sim 3\frac{1}{2} \text{ " } \phi$

$\kappa = 90 \text{ Knots}$
 $L = 31.0 \text{ m}$

- 5 JAN 1949 *666*
See letter
81. 1. 49



Area abaft ϕ stock
 3×7.1
 $= 21.3 \text{ sq ft}$
 $R = 1.5$
 $S = .26 \sqrt[3]{21.3 \times 1.5 \times 8^2}$
 $= .26 \sqrt[3]{2040}$
 $= .26 \times 12.7 = 3.3 \text{ "}$

Nut to be unscrewed and bolt pushed up
 - Rudder not been lifted

M/S NORDSTRAUM.
BALANCED RUDDER



M = 1:10
 BERGEN 5.11.48

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Balanced Sudder

fm NORDSTRAUM ★

OZALID

Bergen 21.1.19

RECORDS DEPT.,
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Balanced Sudder

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fm Nordstraum

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- 5 JAN 1949

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