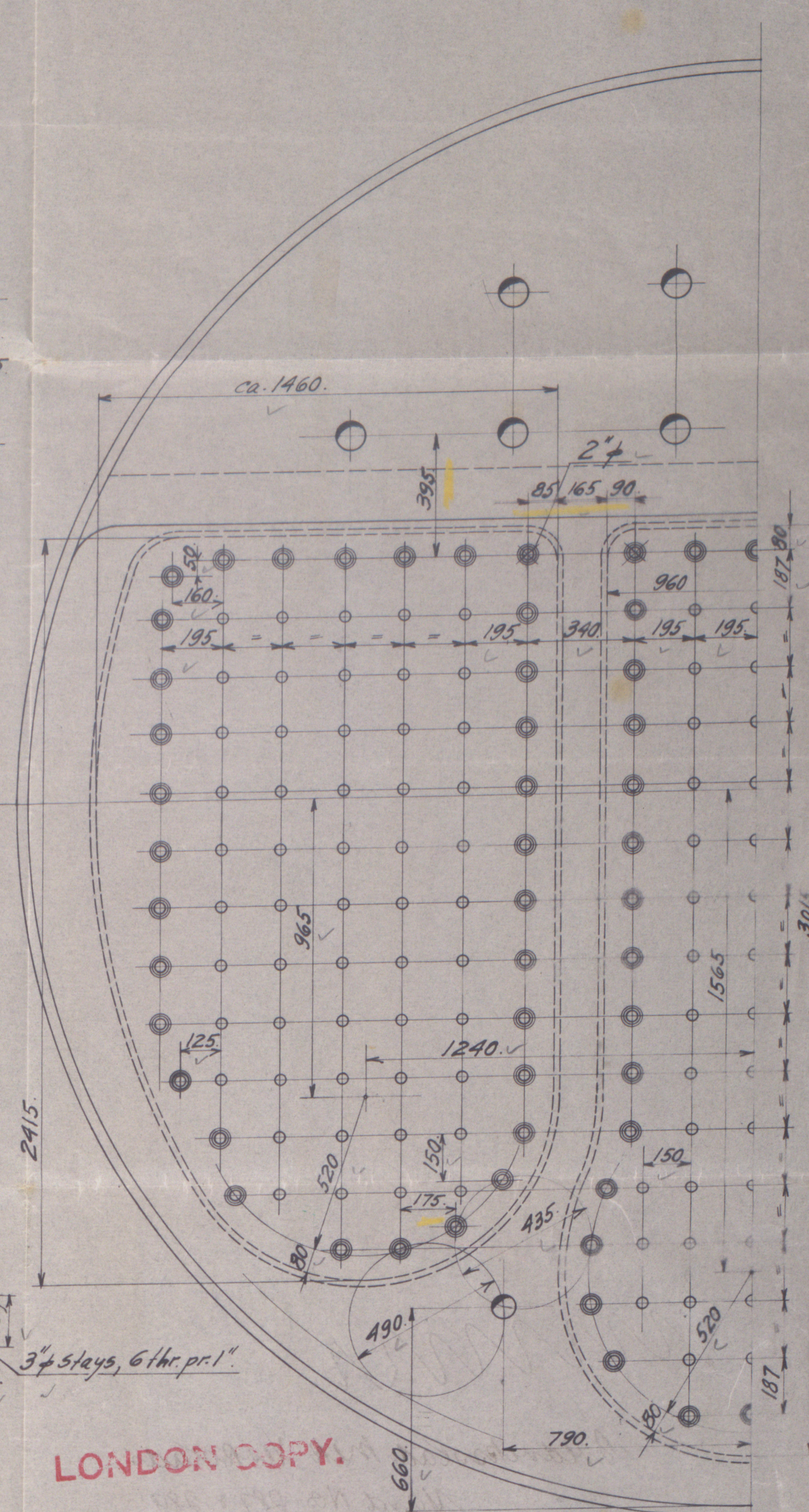
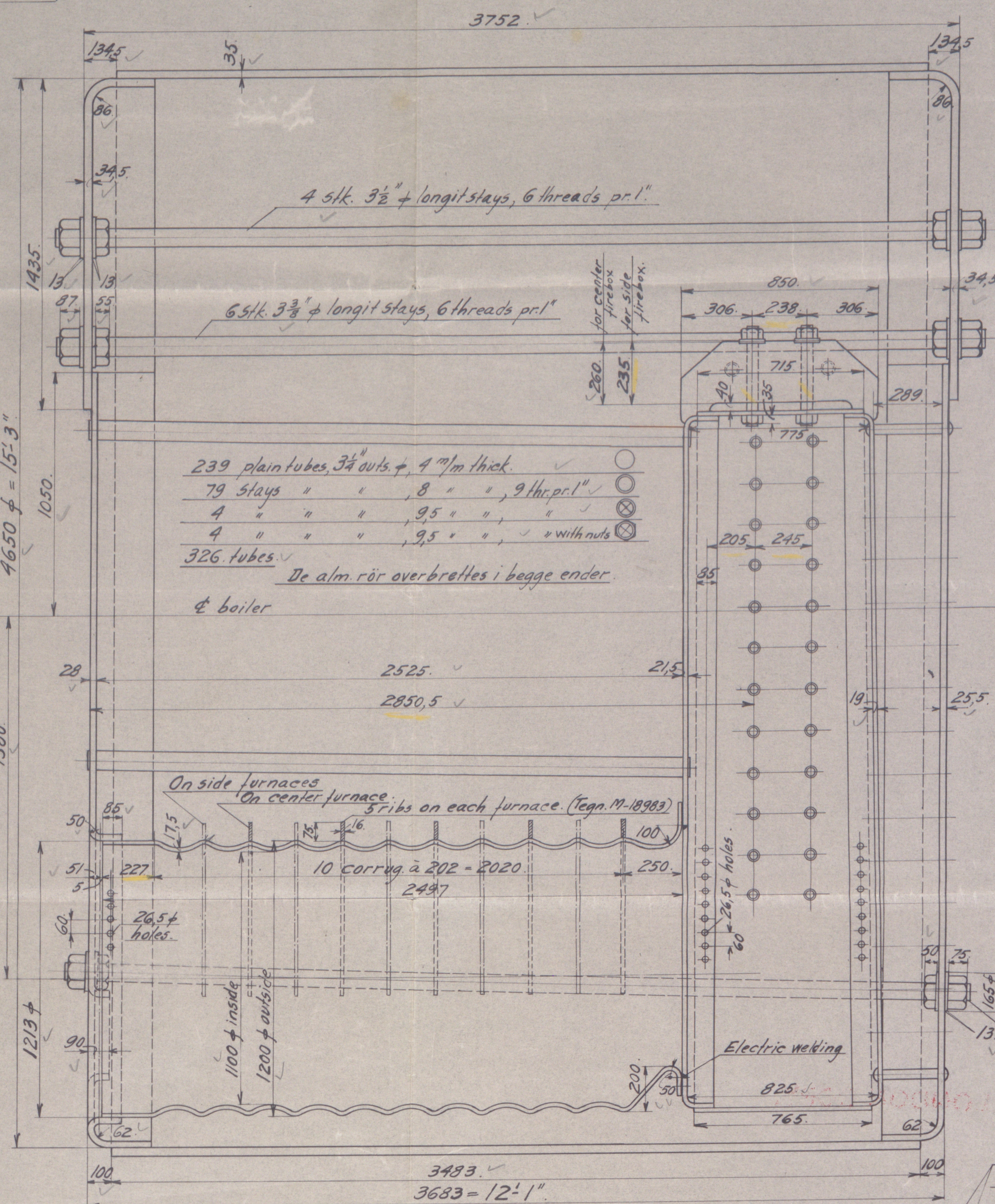
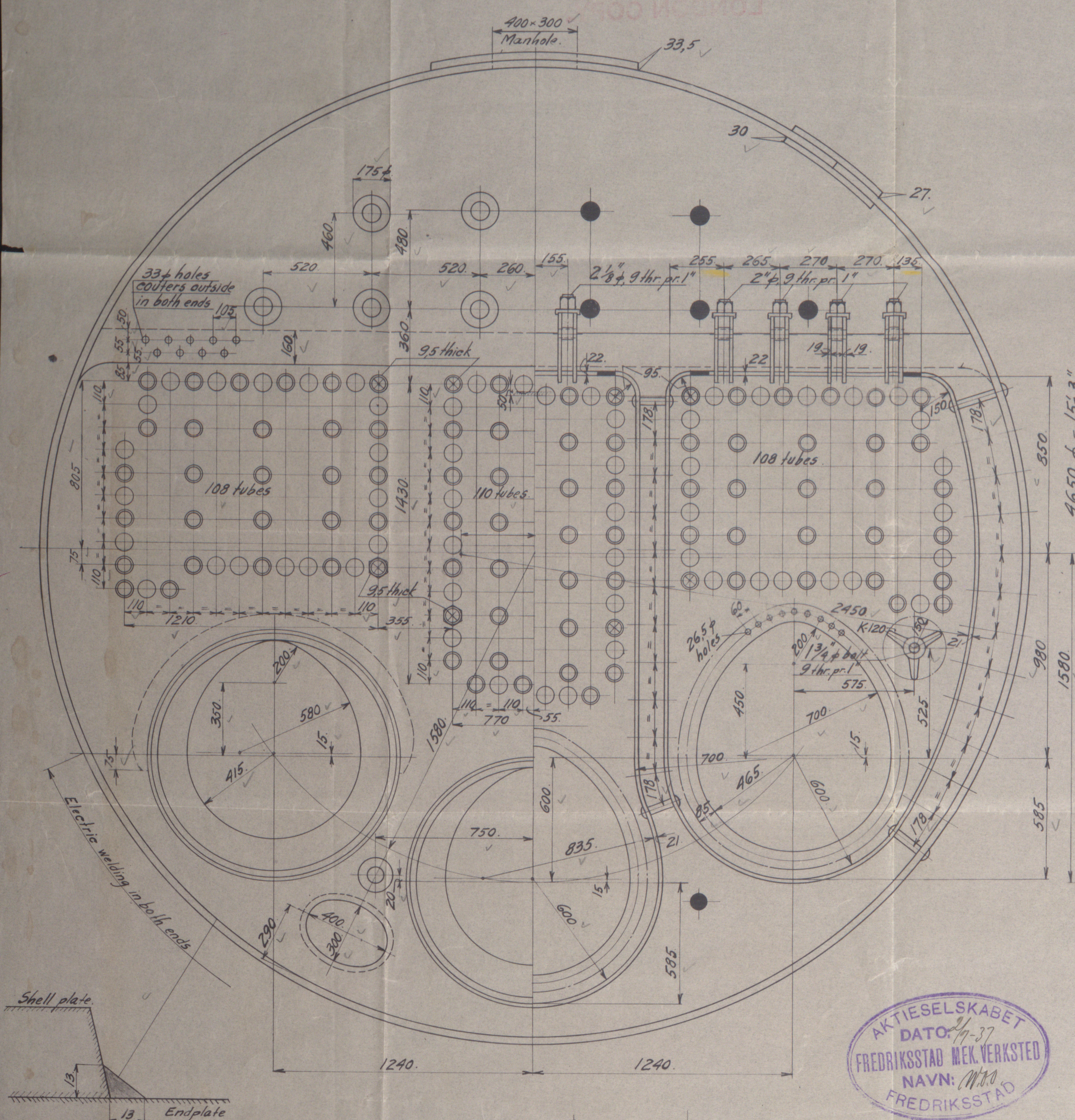


Percent of strength of longitudinal seam:	$J = \frac{235 - 96}{235} \times 100 = 84.7\%$	$3\frac{3}{8}"$ long stays, 6 threads pr 1".	W.P. = $\frac{670(85.72 - 60)^2}{52 \times 280} = 15.97 \text{ kg/cm}^2$
Rivets:	$J = \frac{96 \times 1018.5 \times 1.875}{49 \times 235 \times 95} \times 100 = 85.2\%$	$1\frac{1}{2}"$ staybolts, 9 threads pr 1".	W.P. = $\frac{580(90 - 68)^2}{195 \times 187} = 15.58 \text{ kg/cm}^2$
Circum seams:	$J = \frac{96 \times 1018 \times 2.1}{49 \times 35 \times 102} \times 100 = 42.0\%$	$1\frac{3}{8}"$ " " "	W.P. = $\frac{580(91.3 - 68)^2}{245 \times 178} = 15.83 \text{ kg/cm}^2$
Shell plate:	W.P. = $\frac{(35 - 10)84.7 \times 49}{95 \times 102} = 15.52 \text{ kg/cm}^2$	$1\frac{3}{8}"$ " " "	W.P. = $\frac{580(94.55 - 68)^2}{245 \times 178} = 16.4 \text{ kg/cm}^2$
Front and back in steam space:	W.P. = $\frac{(34.5 - 0.8)^2 \times 6900}{520 \times 280} = 15.64 \text{ kg/cm}^2$	$3\frac{1}{2}"$ staytubes, 8" m thick:	W.P. = $\frac{460 \times 5.27}{(87.5 - 220) \times 0.3345} = 15.6 \text{ kg/cm}^2$
Wide water space, front end:	W.P. = $\frac{(24 - 0.8)^2 \times 3740}{35 \times 280} = 15.86 \text{ kg/cm}^2$	4 rivders, combustion chamb (center)	W.P. = $\frac{832 \times 38 \times 260}{(735 - 230) \times 100 \times 775} = 16.5 \text{ kg/cm}^2$
" " " " back end:	W.P. = $\frac{(25.5 - 0.8)^2 \times 4100}{187 \times 330} = 16.61 \text{ kg/cm}^2$	" " " " (Side):	W.P. = $\frac{(932 \times 38 \times 235)}{(735 - 230) \times 270 \times 775} = 15.53 \text{ kg/cm}^2$
Tube plate, combustion chambers:	W.P. = $\frac{(21.5 - 0.8)^2 \times 2740}{275 \times 2} = 15.52 \text{ kg/cm}^2$	$2"$ staybolts on top of comb chamb:	W.P. = $\frac{(30.8 - 6.8)^2 \times 580}{238 \times 270} = 17.47 \text{ kg/cm}^2$
Shell " " " "	W.P. = $\frac{(21 - 0.8)^2 \times 3600}{245 \times 178} = 16.1 \text{ kg/cm}^2$	$2\frac{1}{2}"$ " " " " " "	W.P. = $\frac{(34 - 6.8)^2 \times 500}{310 \times 232} = 17.5 \text{ kg/cm}^2$
Top " " " "	W.P. = $\frac{(22 - 0.8)^2 \times 5000}{230 \times 310} = 15.9 \text{ kg/cm}^2$	Back end:	W.P. = $\frac{(25.5 - 0.8)^2 \times 5033}{435 \times 280} = 16.22 \text{ kg/cm}^2$
Back " " " "	W.P. = $\frac{(19 - 0.8)^2 \times 3600}{187 \times 195} = 16.33 \text{ kg/cm}^2$	" " " "	W.P. = $\frac{(25.5 - 0.8)^2 \times 6300}{490 \times 2} = 16.01 \text{ kg/cm}^2$
Furnaces, Morison:	W.P. = $\frac{1080(173 - 0.8)}{173} = 15.9 \text{ kg/cm}^2$		

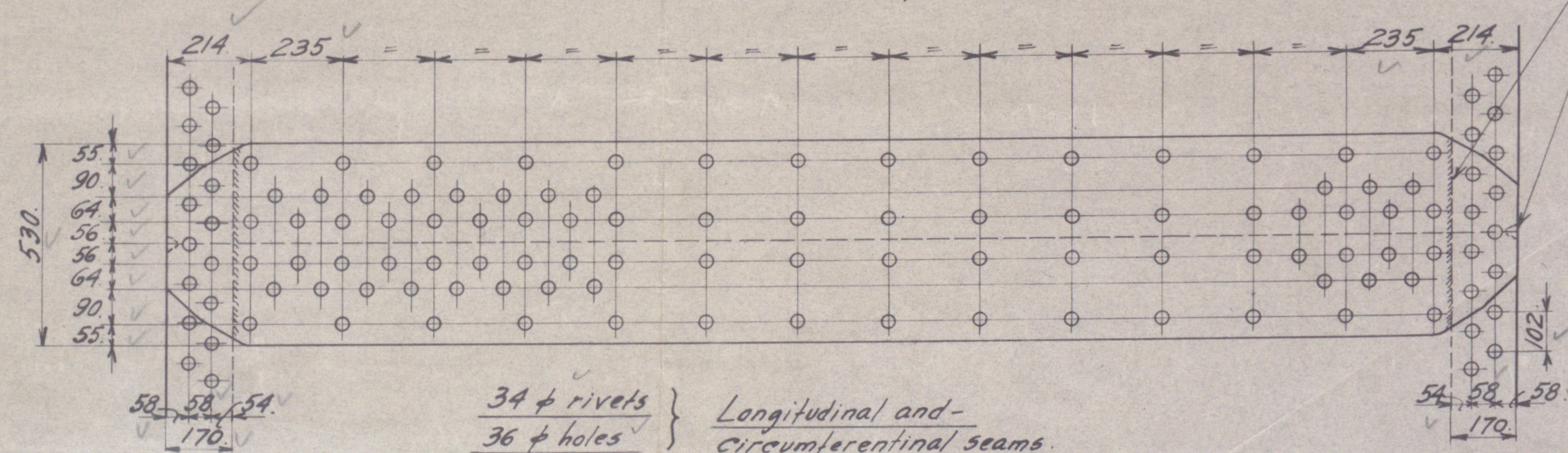
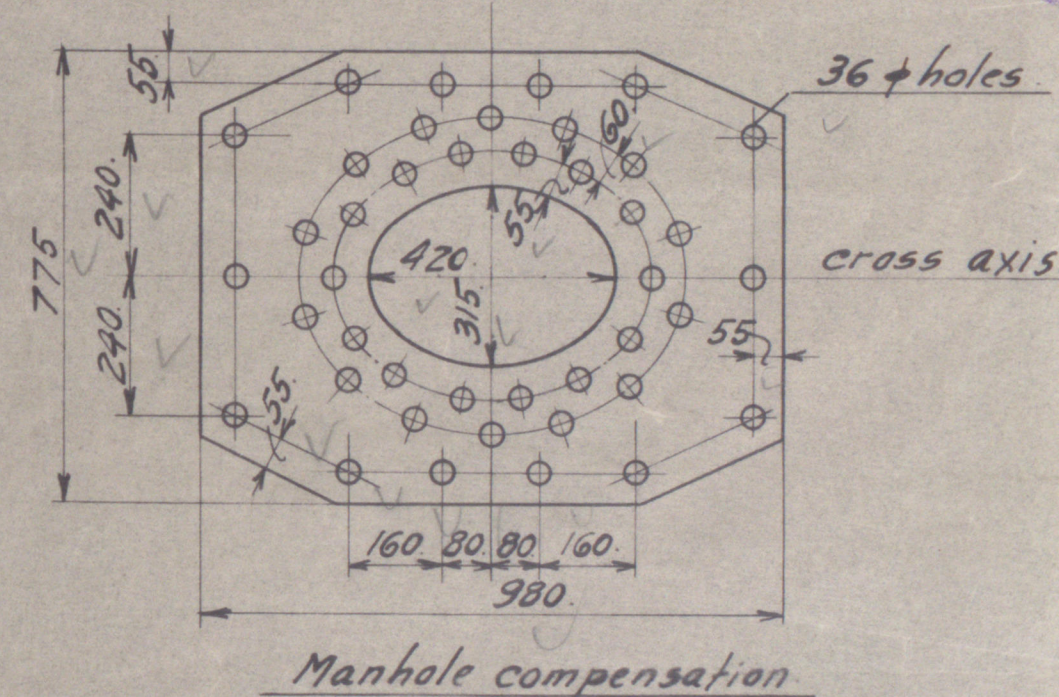
Heating surface of 326 - 3 $\frac{1}{2}$ " x tubes	= 214,00 m ²
" " " Combust. Chambers, top & sides	= 13,30 "
" " " " - tube & back pl.	= 12,40 "
" " " - furnaces	= 16,30 "
Total heating surface	= 2755 m ² = 256,00 m ²
Koef.: $K = \frac{2755}{15,25^2 \times 12,08} = 0,98$	

$$\begin{aligned} \text{Totalt gjennemgangsareal av rør: } A &= 1,34 \text{ m}^2 \\ \frac{\text{Gjennemgangsareal}}{\text{Ristbredel}} &= \frac{A}{R} = \\ \text{Totalt ristareal pr. kjele} &= \\ \frac{\text{Hefellate}}{\text{Ristellate}} &= \frac{H}{R} = \end{aligned}$$

○ $\frac{1}{2}''$ + staybolts, 9 threads pr. l., riveted over in- and outside
 ◎ $\frac{1}{8}''$ — " — " — " — " — " — " — " — " — "
 ◎ $\frac{1}{4}''$ — " — " — " — " — " — " — " — " — "



Electric welding in these places to make the joints tight.

[illegible][illegible]

~~W.S. 368~~

238

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Yard Nos. 287 & 289.

Boilers

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