

Mech<sup>l</sup> Steel main Boilers S.O. 434 by Clyde S. Boring Co. <sup>Inc.</sup>  
for the U.S. Lady Martin. 160 lbs<sup>sq</sup> working pressure

plate %  $\frac{7.345 - 1.0625}{7.345} \times 100 = 85.6$

Ends at top  $\frac{175 \times 16.8^2}{285.5} = 168 \text{ lbs}$

Rivet %  $\frac{5 \times .89 \times 1.45 \times .85}{7.345 \times 1.56} = 84.6$

" " Stays  $\frac{6.33 \times 8000}{14 \times 16.75} = 200 \text{ lbs}$

Shell  $\frac{22 \times 84.6 (17-2)}{144} = 194 \text{ lbs}$

Front tube  $\frac{140 \times 16.5^2}{13.5^2} = 208 \text{ lbs}$

Furnace  $\frac{1259 \times (8-2)}{44} = 172 \text{ lbs}$

Back "  $\frac{1140 \times 16^2}{9.75^2} = 374 \text{ lbs}$

Combr. Chrs  $\frac{135 \times 9.5^2}{44} = 165 \text{ lbs}$

Combr. Cur. Bottom  $\frac{50 (300 \times .481 - 30)}{48} = 214 \text{ lbs}$

" Stays  $\frac{1.48 \times 8000}{9 \times 8.25} = 160 \text{ lbs}$

" " Enders  $\frac{10660 \times 9.5^2 \times 1.45}{(36 - 8.25) 9 \times 36} = 184 \text{ lbs}$



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W.R.H.  
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