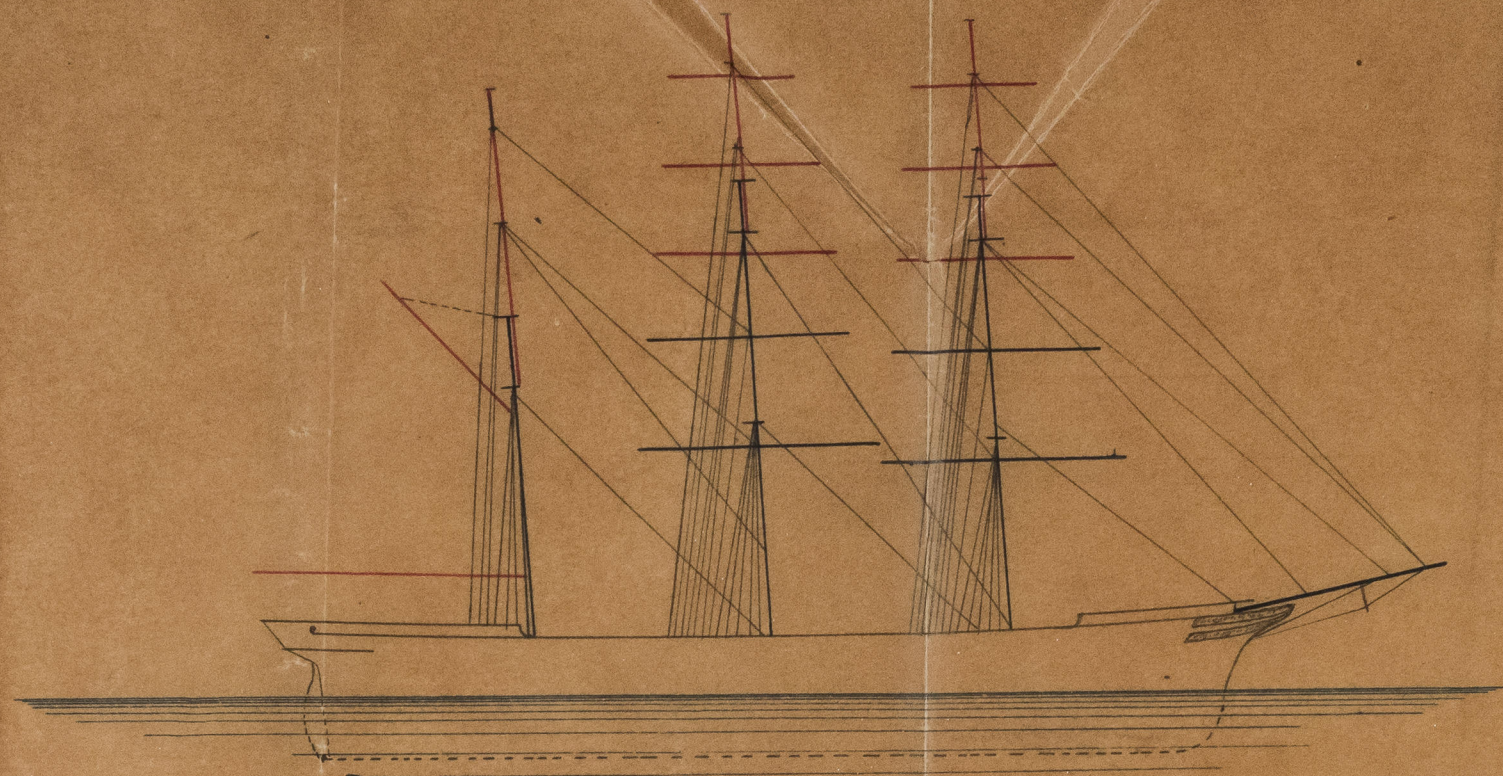


21/9/86.



Barque "Alexander Lawrence"
Glasgow Report No. 4434.

Steel Barque No. 275

Scantlings of Mast & Tackles

Fore mast lower mast and topmast in one

Hed to Partners 22.0	dia at Steel 34	plating $\frac{1}{16}$ $\frac{1}{32}$
Partners to Rounds 45.0	" " Partners 29	" $\frac{1}{16}$ $\frac{1}{32}$
Rounds to Cap 15.0	" " Rounds 22	" $\frac{1}{16}$ $\frac{1}{32}$
	" " Cap 19	" $\frac{1}{16}$ $\frac{1}{32}$
82.0		

Main mast lower mast and topmast in one

Hed to Partners 19.9	dia at hed 24	plating $\frac{1}{16}$ $\frac{1}{32}$
Partners to Rounds 49.0	" " Partners 29	" $\frac{1}{16}$ $\frac{1}{32}$
Rounds to Cap 15.0	" " Rounds 22	" $\frac{1}{16}$ $\frac{1}{32}$
	" " Cap 19	" $\frac{1}{16}$ $\frac{1}{32}$
83.9		

Mizzen mast

Hed to Partners 19.1	dia at hed 16	plating $\frac{1}{16}$ $\frac{1}{32}$
Partners to Rounds 50.6	" " Partners 29	" $\frac{1}{16}$ $\frac{1}{32}$
Rounds to Cap 10.0	" " Rounds 17	" $\frac{1}{16}$ $\frac{1}{32}$
	" " Cap 14	" $\frac{1}{16}$ $\frac{1}{32}$
80.5		

Fore and Main topmasts (taken as in ordinary topmast)

Topmast hed at lower mast round to topmast round 44.0	dia at hed 19	plating $\frac{1}{16}$ $\frac{1}{32}$
" " rounds to Cap 8.0	" " rounds 14	" $\frac{1}{16}$ $\frac{1}{32}$
3 angles in topmasts 18' 20' + 25' respectively	" " Cap 11	" $\frac{1}{16}$ $\frac{1}{32}$
3" x 3" x 16"		
49.0		

Bowsprit and Jibboom in one

dia at hed 27	plating $\frac{1}{16}$ $\frac{1}{32}$
" " hed 27	" $\frac{1}{16}$ $\frac{1}{32}$
" " bowsprit Cap 17	" $\frac{1}{16}$ $\frac{1}{32}$
" " Jibboom " 11	" $\frac{1}{16}$ $\frac{1}{32}$

Fore and Main lower yards

Length ext 79.0	dia at Centre 19	plating $\frac{1}{16}$ $\frac{1}{32}$
" " 2 nd 9.0	" " 17	" $\frac{1}{16}$ $\frac{1}{32}$
" " ends 9.0	" " 16	" $\frac{1}{16}$ $\frac{1}{32}$

Fore and Main lower topsail yards

Length ext 67.9	dia at Centre 16	plating $\frac{1}{16}$ $\frac{1}{32}$
" " 2 nd 9.0	" " 14	" $\frac{1}{16}$ $\frac{1}{32}$
" " ends 8	" " 13	" $\frac{1}{16}$ $\frac{1}{32}$

Bowsprit Angles $3\frac{1}{2} \times 3 \times \frac{1}{16}$.

Bowsprit to be formed of 3 plates in the round, Landing $4\frac{1}{2}$ broad, double riveted with $\frac{3}{4}$ rivets, spaced 5 dia apart. Butto inside & going to be double riveted remainder well riveted Butto caps $\frac{1}{16}$ thicker than their plates.

All yards to be formed of 3 plates in the round, Landing $2\frac{1}{4}$ single riveted with $\frac{7}{8}$ rivets spaced 5 dia apart.

Fore and Main masts (Polace form) lower and topmast to be formed of 3 plates in the round, Landing double riveted with $\frac{3}{4}$ rivets, Landing $4\frac{1}{2}$ broad in lower masts and $2\frac{1}{4}$ broad single riveted with $\frac{7}{8}$ rivets in topmasts. Butto caps $\frac{1}{16}$ thicker than the plates they connect and well riveted above Partners, remainder double riveted. Mizzen mast to be formed of 2 plates in the round, Landing double riveted with $\frac{7}{8}$ rivets, Landing $3\frac{3}{4}$ broad, Butto caps in Mizzen mast same as in Fore and Main masts. Standing Rigging as in Rules for ships of 1000 & under 1200 tons.

St. H. 21/9/86
Note: Lower & Topmasts are to be 1" greater dia than given in Rules -
actual dimensions as shown in plan.