Midship Section of Screw Steamer No. 215

To class 100 A.1. "Three decked" Steel

Scale ½ inch = one foot.

To have a full Poop extending about 50 feet from sternpost. Topgallant Forecastle extending about 50 feet from stem. Bridge deck amidships about 102 feet long.
Combined length of deck erections 262 feet = 61 of 423 feet
Forecastle deck beams. See bulb ~~10 in 50~~ on alternate frames
Poop deck beams, Bulb angle ~~8 x 3~~ on alternate frames.

Stringer Plates, Sheerstrakes, Garboard strakes and all Buttstraps when above $\frac{20}{20}$ thick, to be carefully annealed, or the holes sufficiently rimed after punching.

Equipment.

3 Bower Anchors 45 cwts, ex stock.
1 Bower Anchor 38½ cwts ex stock
1 Stream Anchor 15½ cwts ex stock.
1 Kedge Anchor 7½ cwts. ex. stock
1 Kedge Anchor 3½ cwts. ex. stock.
300 Fathoms $2\frac{10}{16}$" stud chain cable
90 Fathoms $1\frac{10}{16}$" stream chain
120 Fathoms 14" hawser, or 4¾" steel wire
90 Fathoms 12" hawser, or 4" steel wire
90 Fathoms 10" warp.

Garboard strakes and the after bends of plating connected to the sternframe, to be the same thickness as strakes amidships.
Boss plates and the plates above and below the same to be $\frac{2}{20}$ thicker than strakes amidships with butts double strapped, or the boss plates to be doubled.

Web Frames in E. & B. space, spaced 4 frame spaces apart.
Funnel plating $\frac{8}{20}$ Transverse angles 4½ x 3½ x $\frac{9}{20}$ spaced 4 ft apart, and 3 feet in way of hatchways

Numerals

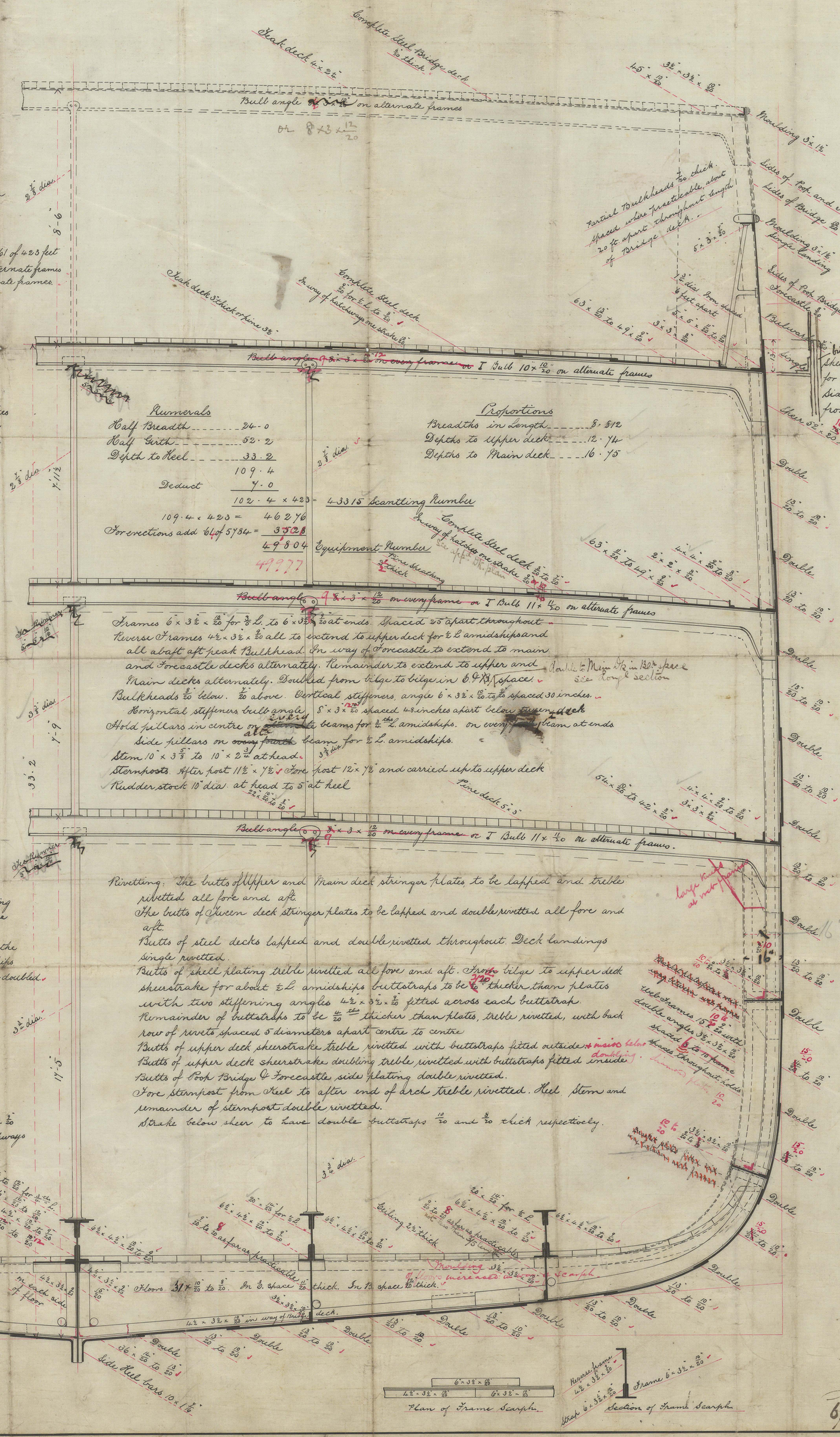
Half Breadth	24·0
Half Girth	52·2
Depth to Keel	33·2
	109·4
Deduct	7·0
	102·4 × 423 = 43315 Scantling Number
109·4 × 423 =	46276
For erections add 61 of 5784 =	3528
	49804 Equipment Number
	49777

Proportions

Breadths in Length	8·512
Depths to upper deck	12·74
Depths to Main deck	16·75

Frames 6 x 3½ x $\frac{10}{20}$ for ⅜ L. to 6 x 3½ x $\frac{7}{20}$ at ends. Spaced 25" apart throughout.
Reverse Frames 4½ x 3½ x $\frac{7}{20}$ all to extend to upper deck for ½ L. amidships and all abaft aft peak Bulkhead. In way of Forecastle to extend to main and Forecastle decks alternately. Remainder to extend to upper and Main decks alternately. Doubled from bilge to bilge in E. & B. space.
Bulkheads $\frac{8}{20}$ below. $\frac{7}{20}$ above. Vertical stiffeners, angle 6 x 3½ x $\frac{10}{20}$ to $\frac{7}{20}$ spaced 30 inches.
Horizontal stiffeners bulb angle 5" x 3 x $\frac{12}{20}$ spaced 48 inches apart below tween deck
Hold pillars in centre on alternate beams for ¾ the L. amidships. on every fourth beam at ends.
Side pillars on every fourth beam for ½ L. amidships.
Stem 10" x 3⅝ to 10" x 2¾ at head.
Sternposts. After post 11½ x 7½. Fore post 12" x 7½ and carried up to upper deck
Rudder stock 10" dia. at head to 5" at heel

Rivetting: The butts of Upper and Main deck stringer plates to be lapped and treble rivetted all fore and aft.
The butts of Tween deck stringer plates to be lapped and double rivetted all fore and aft.
Butts of steel decks lapped and double rivetted throughout. Deck landings single rivetted.
Butts of shell plating treble rivetted all fore and aft. From bilge to upper deck sheerstrake for about ½ L. amidships buttstraps to be $\frac{2}{20}$ thicker than plates with two stiffening angles 4½ x 3½ x $\frac{7}{20}$ fitted across each buttstrap.
Remainder of buttstraps to be $\frac{2}{20}$ thicker than plates, treble rivetted, with back row of rivets spaced 5 diameters apart centre to centre
Butts of upper deck sheerstrake treble rivetted with buttstraps fitted outside.
Butts of upper deck sheerstrake doubling treble rivetted with buttstraps fitted inside.
Butts of Poop Bridge & Forecastle side plating double rivetted.
Fore sternpost from Keel to after end of arch treble rivetted. Keel, Stem and remainder of sternpost double rivetted.
Strake below sheer to have double buttstraps $\frac{12}{20}$ and $\frac{8}{20}$ thick respectively.



S.S. "Dunera" Glasgow Report No. 10694.–
S.S. "Dilwara" —do— "

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