

# FERRO-CONCRETE CARGO STEAMERS

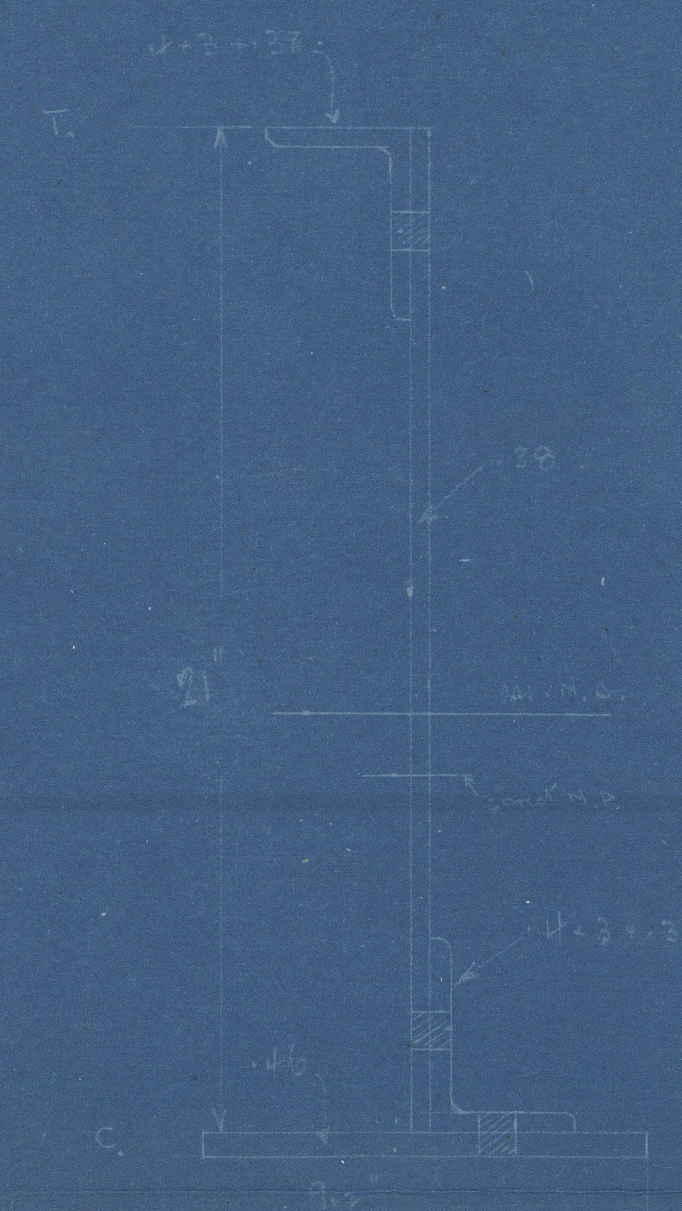
NOS 99, 100 & 101

## SKETCH SHEWING STRENGTHS OF VARIOUS PARTS OF STRUCTURE

Scale 1/4 size

Frame Spacing 23 inches

### SECTION THIRD FLOOR



Item	Area of steel	Area of concrete	Area of reinforcement	Area of concrete	Area of reinforcement	Area of concrete
Floor slab	7.00	10.00	10.00	10.00	10.00	10.00
Reinforcement	1.00	10.00	10.00	10.00	10.00	10.00
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Reinforcement	1.00	10.00	10.00	10.00	10.00	10.00

10.00 10.00 10.00 10.00 10.00 10.00

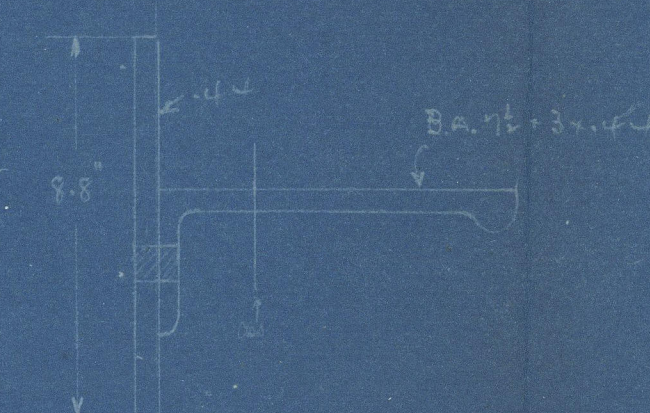
I = 10.00

I = 10.00

I = 10.00

SECTION MODULUS = 77 in<sup>3</sup>

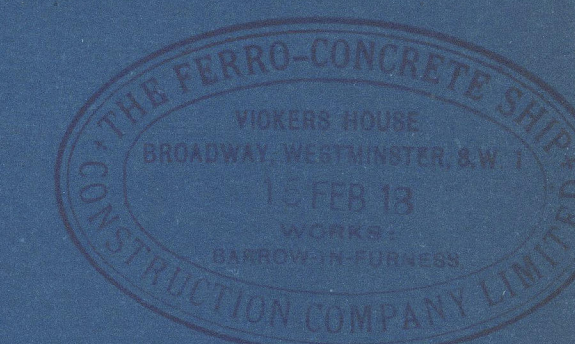
### FRAME



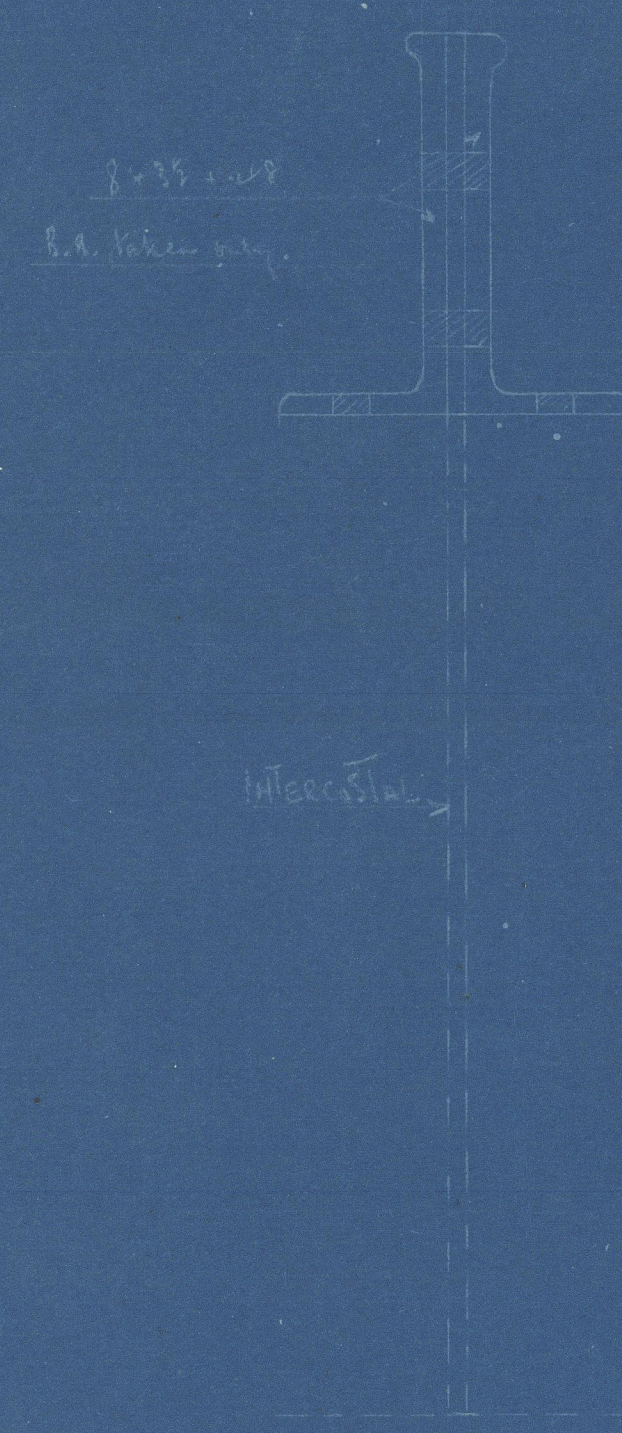
Item	Area of steel	Area of concrete	Area of reinforcement	Area of concrete	Area of reinforcement	Area of concrete
Floor slab	7.00	10.00	10.00	10.00	10.00	10.00
Reinforcement	1.00	10.00	10.00	10.00	10.00	10.00
Reinforcement	1.00	10.00	10.00	10.00	10.00	10.00
Reinforcement	1.00	10.00	10.00	10.00	10.00	10.00
Reinforcement	1.00	10.00	10.00	10.00	10.00	10.00

I = 10.00

SECTION MODULUS = 94 in<sup>3</sup>

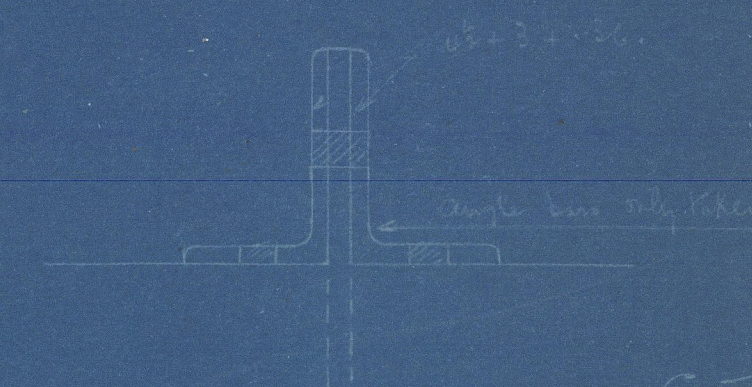


### CENTRE KEEL



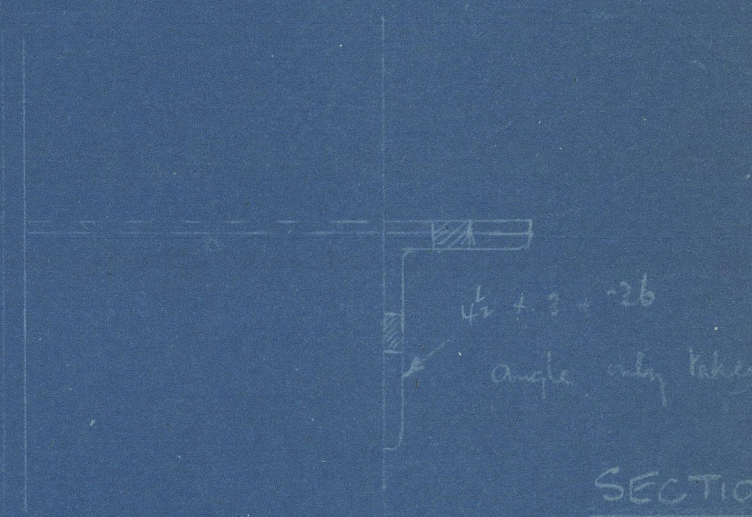
SECTION MODULUS = 10.00 x 28.5 = 285 in<sup>3</sup>

### SIDE KEELSON



SECTION MODULUS = 4.05 x 22.7 = 89 in<sup>3</sup>

### SIDE STRINGERS



SECTION MODULUS = 2.03 x 8.7 = 17.7 in<sup>3</sup>

### DECK BEAM

SECTION MODULUS = 2.12 in<sup>3</sup> (Similar to the other beams)

### CARGO HATCH SIDE COAMING

SECTION MODULUS = 6.5 in<sup>3</sup> (Similar to the other beams)



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Ship

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