

S. S. N^o 471.

SECTION OF GIRDER UNDER UPPER DECK
IN MAIN HOLD IN WAY OF 6 x 3 BEAMS

SECTION OF GIRDER UNDER UPPER DECK
IN MAIN HOLD IN WAY OF $9 \times 3\frac{1}{2}$ BEAMS.

SECTION OF GIRDER IN FORE HOLD
CLEAR OF HATCH

SECTION OF GIRDER IN AFTER HOLD
CLEAR OF HATCH

SECTION OF GIRDER UNDER
UPPER DK. IN AFTER MAIN HOLE

$$\frac{12.75^2 \times 49.24 \times 5}{100 \times 4} = 100.05$$
$$\frac{29.75^2 \cdot 49.24 \cdot 5}{100 \cdot 4} = 54.42$$
$$\frac{27.62^2 \times 49.24 \times 7}{100 \times 4} = 657.35$$
$$\frac{27.62^2 \times 49.24 \times 5}{100 \times 4} = 469.50$$
$$\frac{12.75^2 \times 49.24 \times 5}{100 \times 4} = 100.05$$

THIS GIRDER IS A CONTINUATION OF
HATCH SIDE GIRDER.

Hand-drawn sketch of a structural connection. The sketch shows a vertical section of a beam-to-column joint. A 6x32 beam is shown on the left, with a 3x3 plate attached to its side. A 6x6 flange is shown at the bottom, supporting the beam. Dimensions are indicated: 14 1/2" for the plate height, 3/4" for the plate thickness, and 6x32x34 for the beam section. Labels include "6x32x34", "3x3x34", "6x6", "PLATE 3/4", and "6x32x40".

LUGS $3 \times 3 \times .44$
 $8 \times 3 \times .44$
 .44 PLATE &
 LUGS $6 \times 6 \times .58$ IN WAY
 OF 9" BEAMS.
 LUGS $6 \times 6 \times .70$ &
 PLATE IN WAY OF 6 BEAMS.
 32 x 32 x .44 C
 3" FLANGE
 PLATE

Hand-drawn sketch of a beam cross-section. The top flange is labeled $3 \times 8 \times 3/4$. The web is labeled $2 \text{ CHANNELS } 10 \times 3 \frac{1}{2} \times 3 \frac{1}{2} \times 60$. The bottom flange is labeled $3 \frac{1}{2} \times 3 \frac{1}{2} \times 4 \frac{1}{4}$. A label $\text{PLATE } 4 \times 4$ with an arrow points to the bottom flange. The sketch shows a central vertical web with two horizontal flanges, one at the top and one at the bottom. The top flange is wider than the bottom flange. The web is composed of two channels. The bottom flange is a single plate.

Main Hatch
 50 SIDE EXAMINER
 3 1/2 x 3 1/2 x 1/4
 3" BEAMS
 2 ANGLES
 5/8 x 1 1/4
 1/4" PASTE
 3" FLANGE

SECTION OF FORE HATCH SIDE GIRDER

POSITION OF GIRDERS
(= LINE OF HATCH SIDE

6" 3" x 44
T. BR ANGLE GIRDER UNDER BEAM
IN WAY OF EACH ROW OF PILES

$\left\{ \begin{array}{l} 10 \times 3\frac{1}{2} \times .58 \text{ B.A. UNDER } \frac{2}{3} \text{ \& BEA} \\ 9 \times 3\frac{1}{2} \times .50 \text{ " " } \frac{1}{2} \text{ " " } \\ \text{KNEES } 26 \times .54 \end{array} \right.$

STRINGER PLATES ON BEAMS 25

W. I. FLAT 30
(B. A. BEAMS $6\frac{1}{2} \times 3 \times 40$)

(8) A BEAMS 8" x 12" x 1/2"

KNEES $27 \times .54$

$$6\frac{1}{2} \times 3\frac{1}{2} \times .46$$

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PROFILE

as built.

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