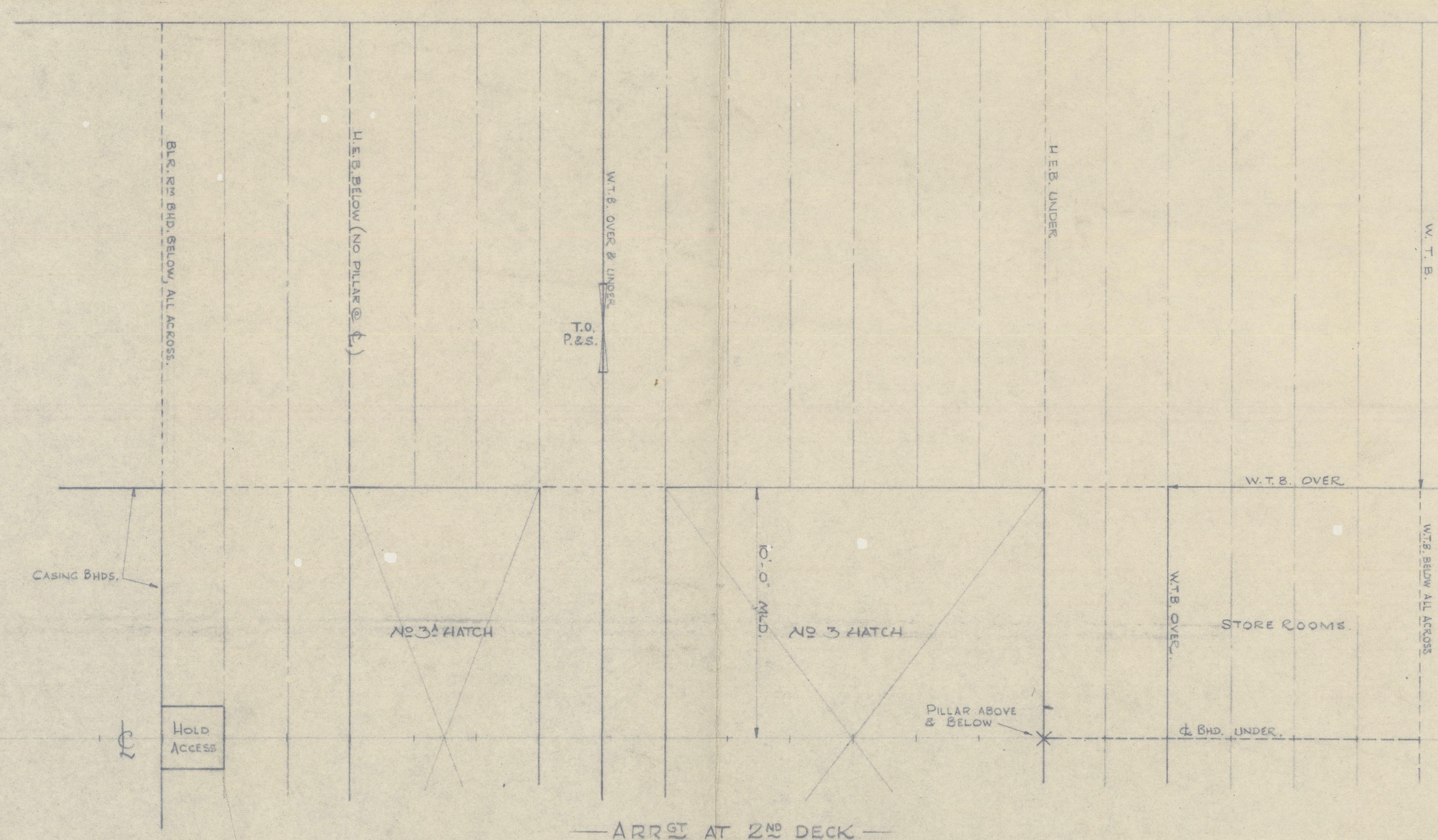
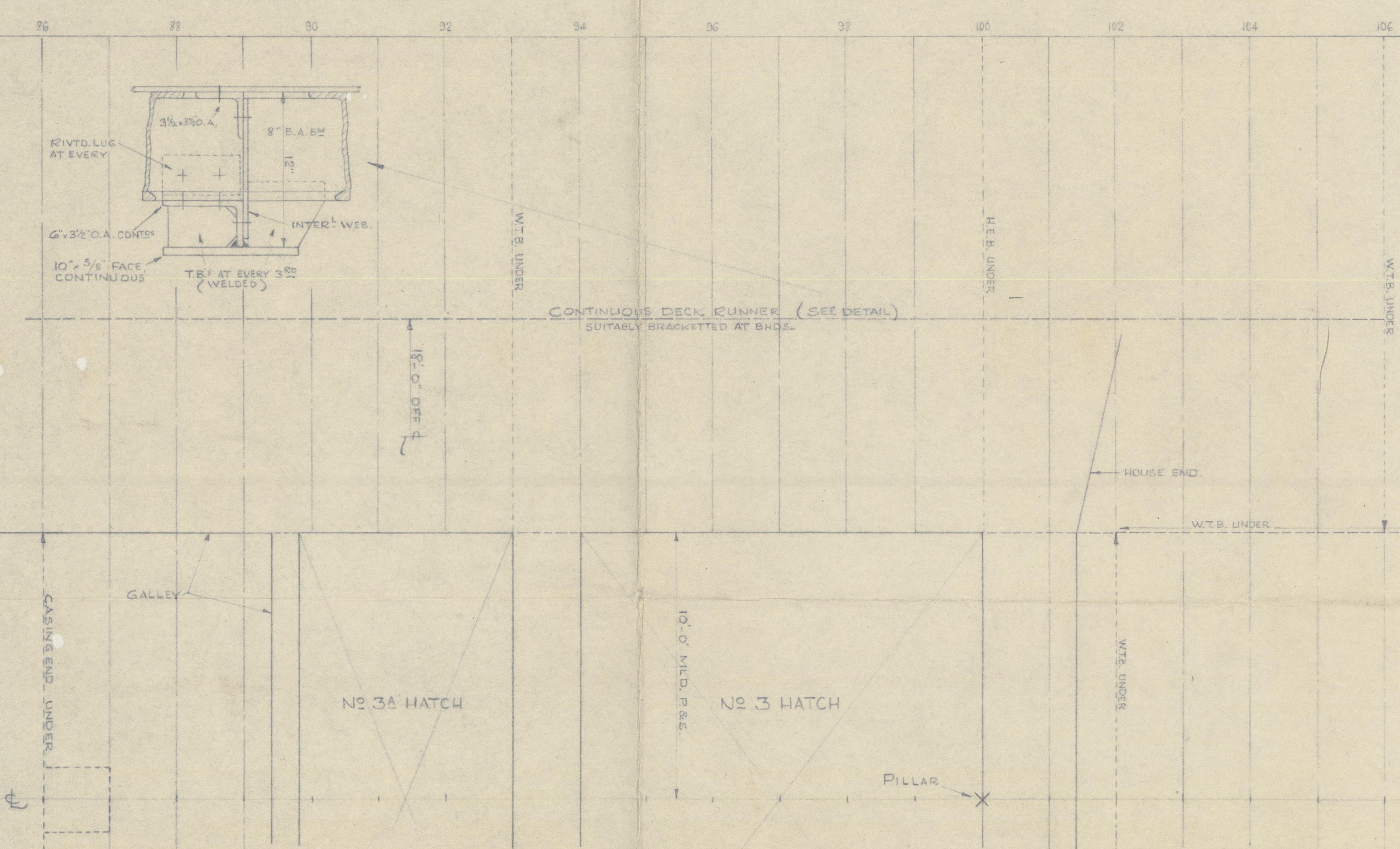
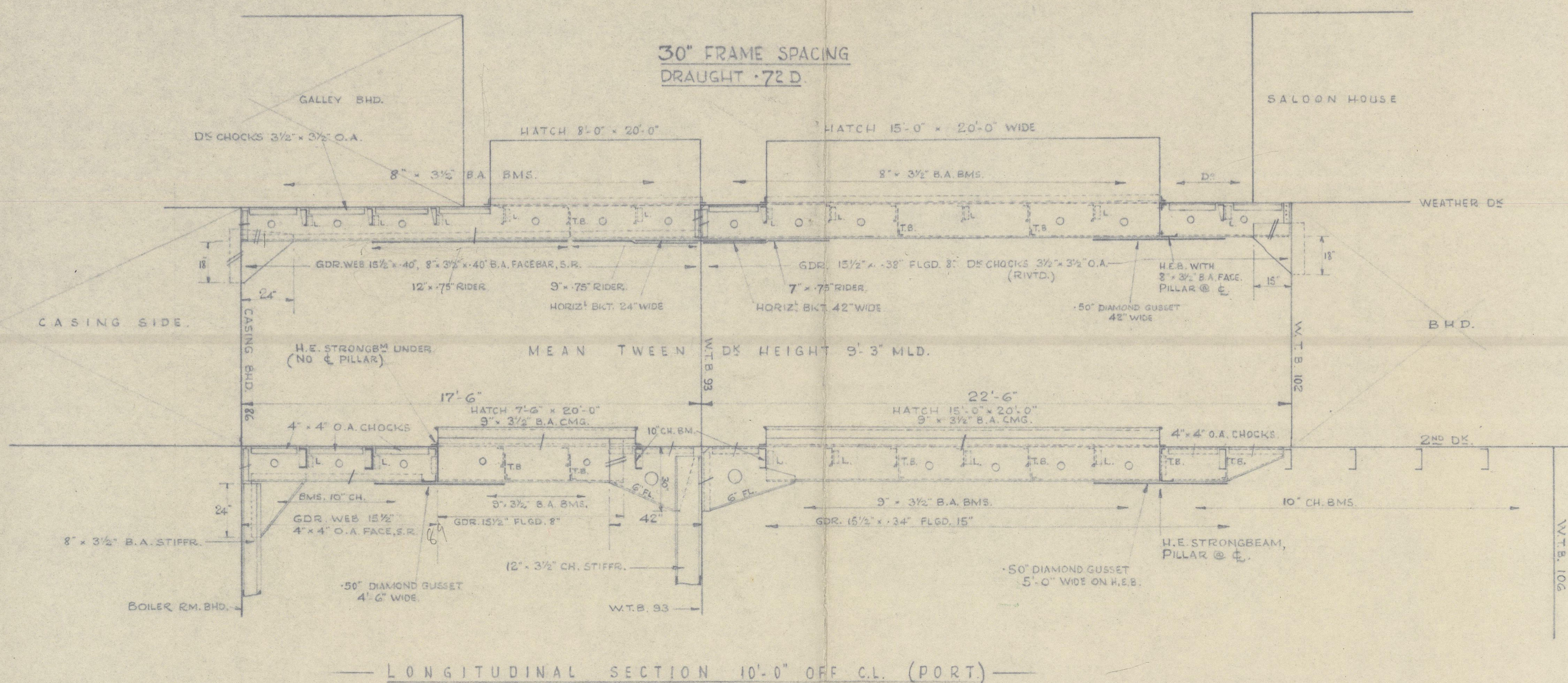


27.6 d.

EXISTING STRUCTURE



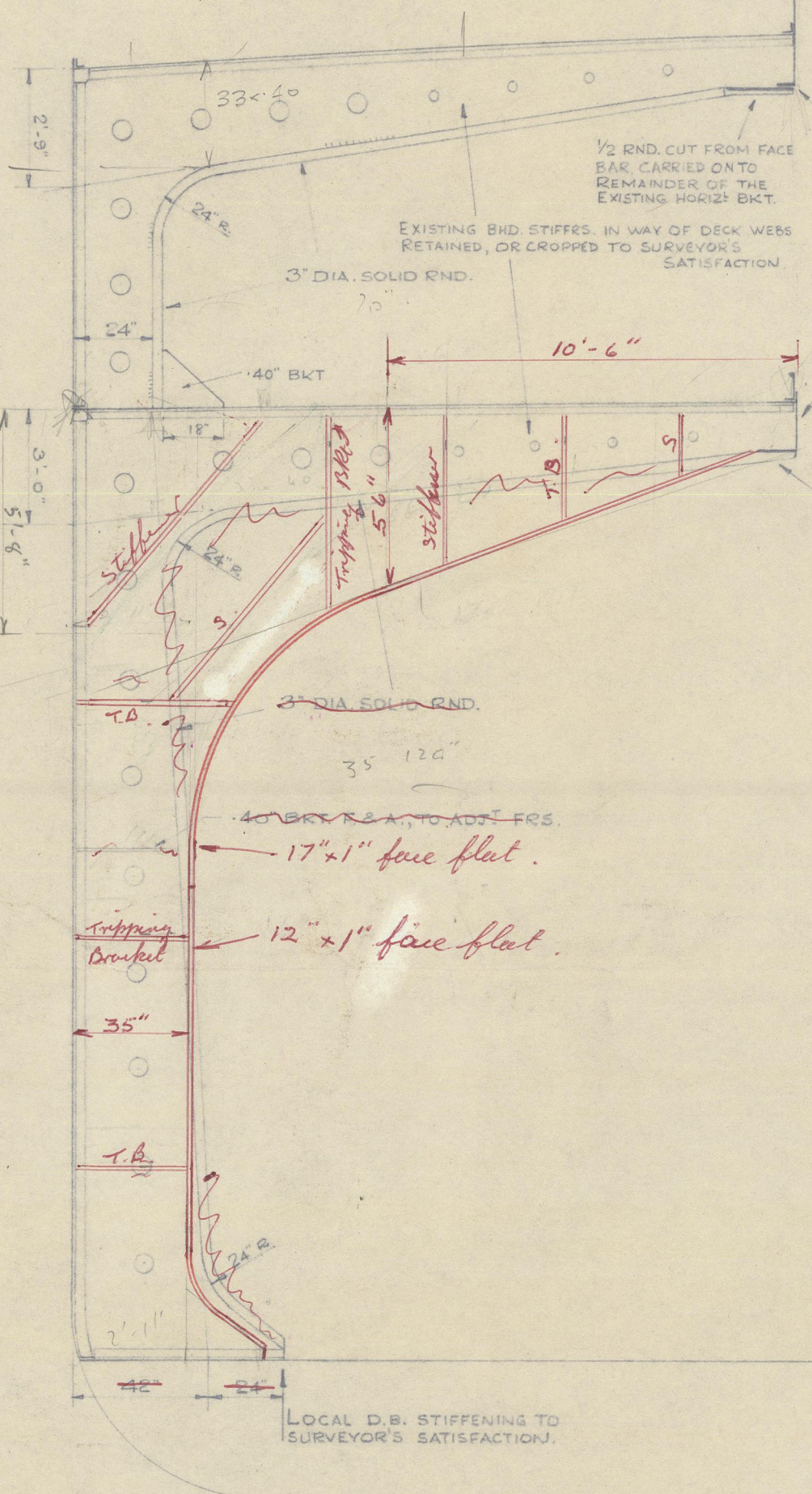
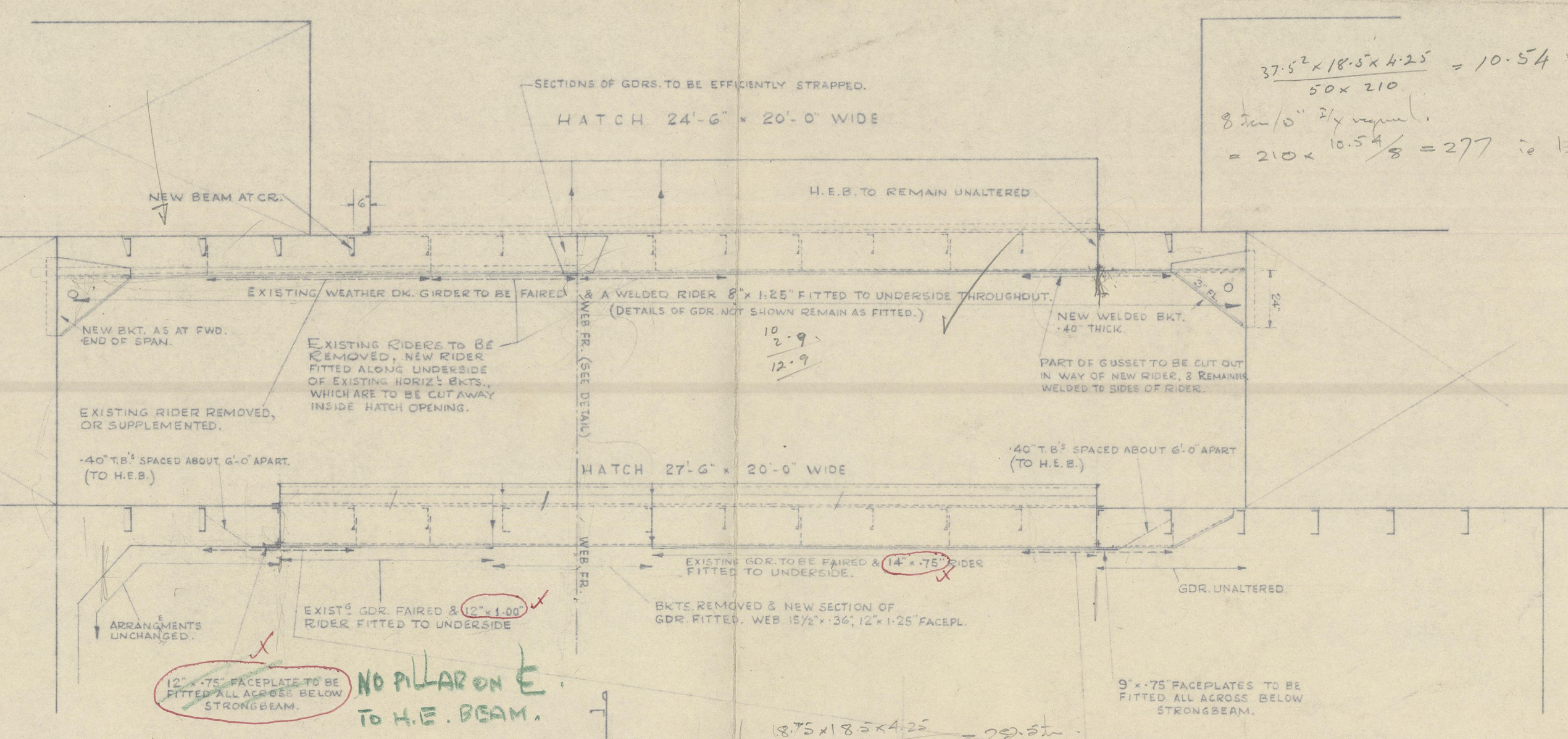
$$f_{wd} \cdot B_{wd} \cdot H.E. = 33.5^2 \cdot 18.5 \cdot 4.25 = 880.$$

$$34 = 220$$

$$15' \times 40 + 8 \times 32 \times 40 + 8 \times 1.25' = 1000.40 + 12.30 = 246$$

PROPOSED MODIFICATIONS

(MINIMUM SCANTLINGS REQ'D.)



$$37.5^2 \cdot 18.5 \cdot 4.25 = 10.54$$

$$8.25 \times 10' \cdot 24 \text{ required.}$$

$$= 210 \times 10.54 = 277 \cdot 17$$

$$18.5 \times 18.5 \times 4.25 = 29.5$$

$$33 \times 40 \times 70 = 333$$

$$15 \times 12 \times 29.5 = 53.3$$

$$1.1 \times 33.5^2 \cdot 18.5 \cdot 4.25 \times 0.1 = 2160 = 540 \cdot 4$$

$$C_{eq} = 15.5 \times 34 + 3630$$

$$Low - Contain = (33.5 \times 18.5 \cdot 9.5 + 9.75 \times 2.5 \cdot 9.5) / 150 \text{ tons}$$

$$2940 + 2315 = 588 + 4.63 \text{ t.}$$

$$B.M. = (58.8 \times 18.5 \times 12) + (4.63 \times 60) \text{ t.m.}$$

$$13050 + 2768 = 13,327 \text{ t.m.}$$

$$Continuous Modules required = \frac{13,327}{7.5} = 1777 \text{ m}$$

$$Modules of web frame = \frac{13,327}{25} = 533 \text{ m}$$

$$B.M. 10' 6" \text{ out from H.S.G.} = 58.8 \times 12.6 = 740.4 \text{ t.m.}$$

$$Stress = \frac{740.4}{122.1} = 6.06 \text{ t./sq.}$$

$$\text{At 5K t./sq. stress } \frac{740.4}{5.5} = 134.8$$

$$\frac{1}{4} \text{ required } 9' 0" \text{ out from H.S.G.}$$

$$\frac{108 \times 58.8}{5.5} = 1155 \text{ t.}$$

Existing structure may be used without alteration.

WEB FRAME 93
ORIGINAL W.T.B. PLATING REMAINS TO FORM WEB, EDGE STIFFENED & LIGHTER HOLES CUT AS SHOWN.
WEB FR. TO PROVIDE PARTIAL GDR. SUPPORT

G.K.W.
3.11.60

3/8" CAPE DREPANON
(EX "AKTI HILL"
EX "FORT LA CLOCHE")
PROPOSED MODIFICATIONS TO STRUCTURE
IN WAY OF NO 3 HOLD.
SCALE: 1/4" = 1 FT

L.B.P.	416' 0"
BK. EXT.	57' 2"
D.MLD. UPPER DECK	37' 4"
" "	28' 7"

OWNERS REQUIRE THE WORK TO BE ACCOMPLISHED WITHOUT THE USE OF ADDITIONAL PILLARS.