

1. The section of the bracket and the stiffener;

1-a. at the end of the stiffener.

1-b. at the mid-point of the free edge of the bracket.

In case 1, is the snipped flange of the stiffener included in the calculations?

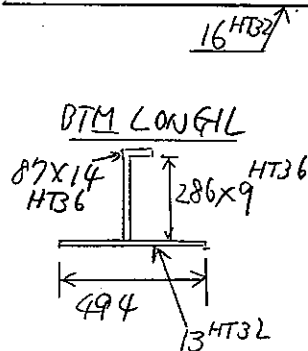
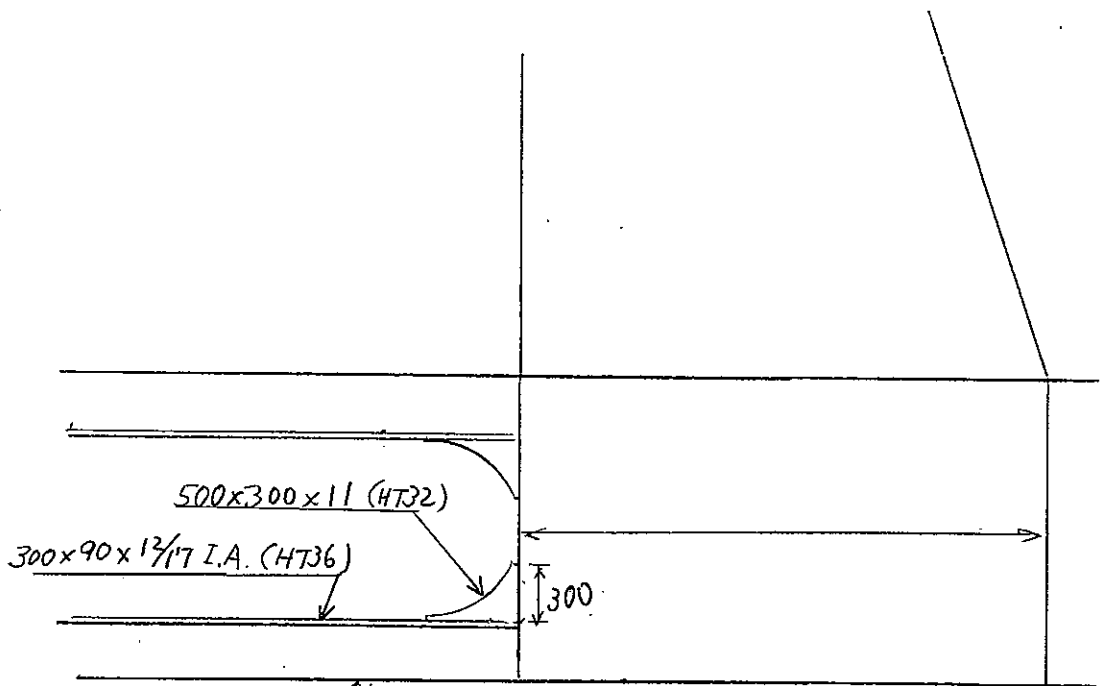
2. The section of the bracket;

2-a. normal to the free edge of the bracket.

2-b. at the end of the stiffener.

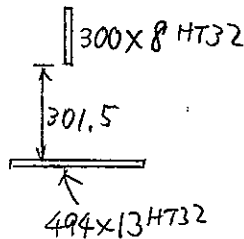
2-c. attached to the stiffener.

2-d. smaller of 2-b and 2-c.



$(K = 0.72)$
 $SM = 555 \text{ cm}^3$
 (HT36)
 $A_{stiff} = 37.92 \text{ cm}^2$
 (HT36)

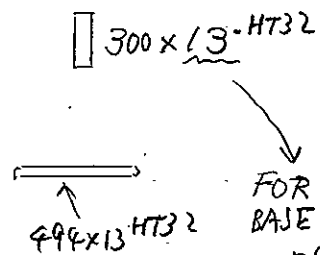
BKT AT END (2-b)



$(K = 0.78)$
 $SM = 795 \text{ cm}^3$
 (HT32)
 $SM' = 795 \times \frac{0.72}{0.78} = 733 \text{ cm}^3$

$A_{BKT} = 24 \text{ cm}^2$
 (HT32)

MODIFIED BKT AT END (2-b)



$A_{BKT} = 39 \text{ cm}^2$
 (HT32)

FOR HT36
 BASE,
 $t = \frac{37.92 \times 100}{300} \times \frac{0.78}{0.72}$
 $= 13.7 \rightarrow 14 \text{ mm}$

→ BRACKET SIZE TO BE INCREASED TO 300x16 HT32 FROM 300x11 HT32

→ IF MATERIAL FACTOR SHOULD BE CONSIDERED TO BE INCREASED TO 300x17 HT32