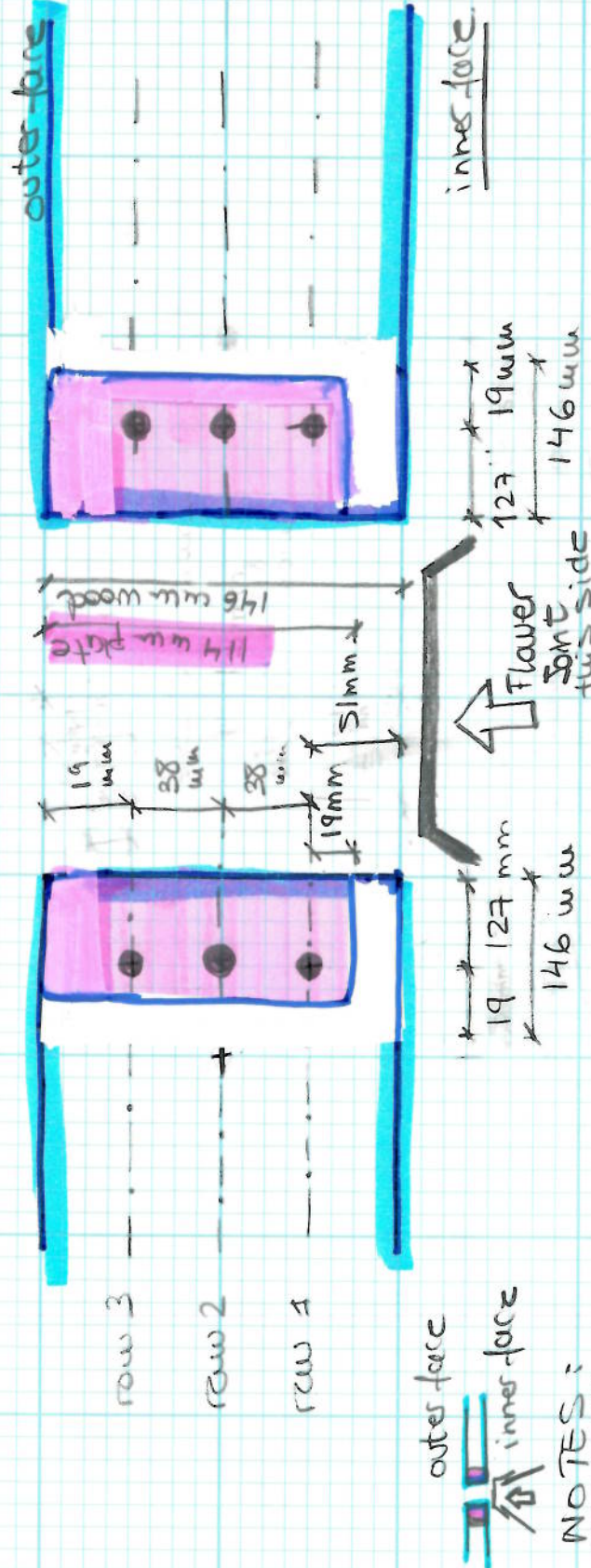


- $d_b$  = bolt diameter  $\rightarrow 1/2"$  (12.7 mm)  
 row spacing: 38 mm (perpendicular to grain dominates in this case)  
 edge distance: 1.5  $d_b$  = 19 mm  
 distance between two outer rows = 76 mm  $\leq$  125 mm OK.  
 edge distance 7  $d_b$  (minimum) reduction factor of 0.75 = 3L considered = 127 mm

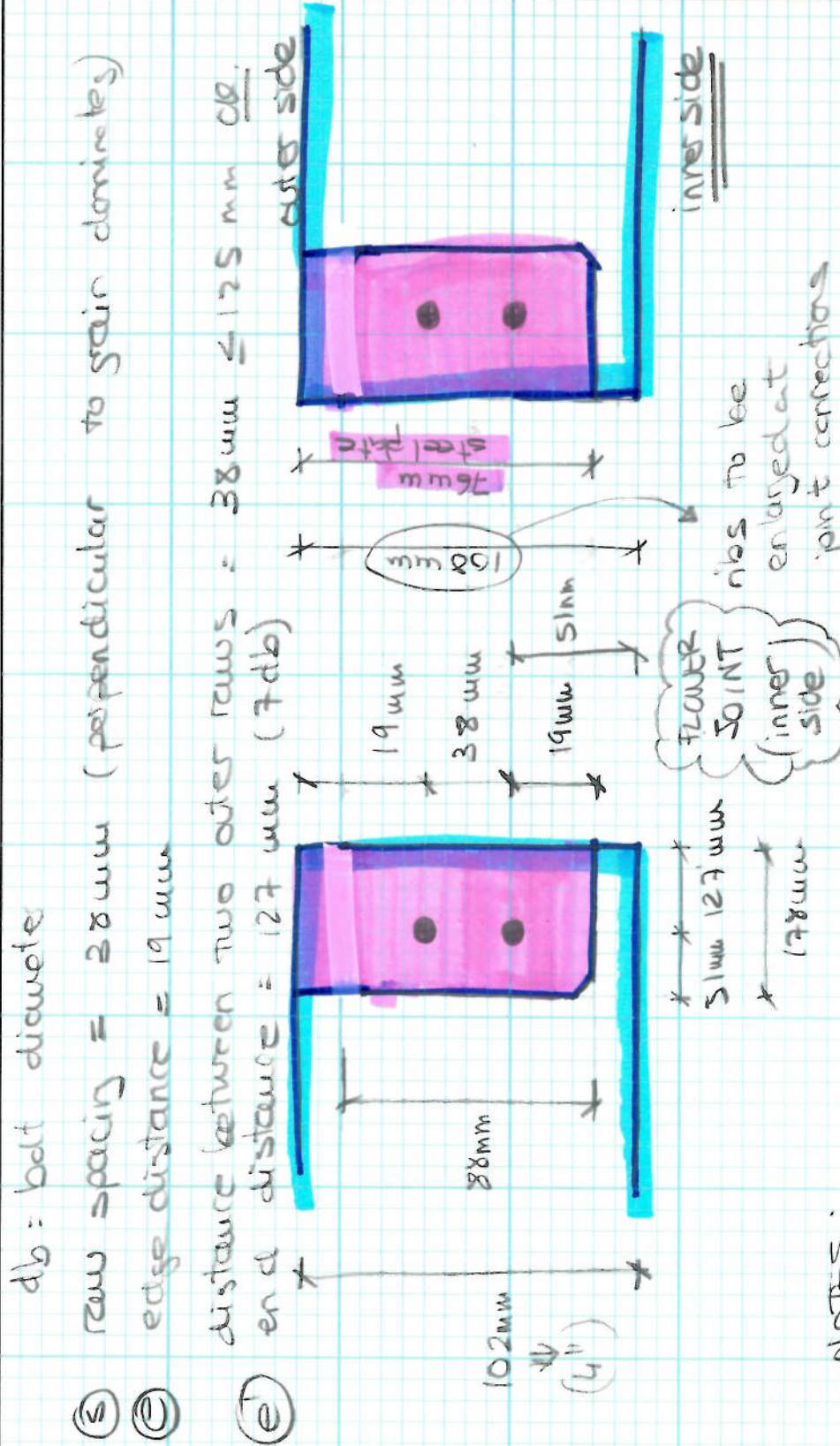


### NOTES:

- Bolt diameter  $\rightarrow 1/2"$  (12.7 mm)  $\rightarrow$  washer =
- Bolts in wood to comply to: A307 (ASTM)
- Plate for ring joint shall meet requirements of G-40.21 and ASTM A36.

NOT TO SCALE





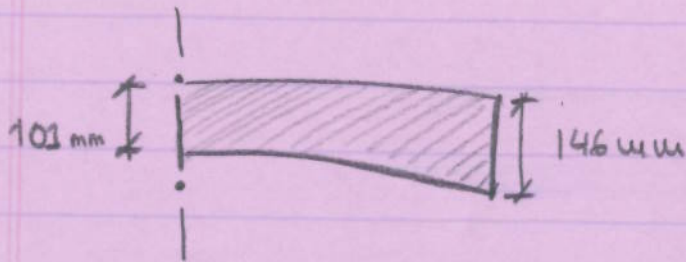
## NOTES:

- Bolt diameter  $\rightarrow \phi 1\frac{1}{2}"$  (12.7 mm)
- Bolts in wood to comply to A307 (ASTM)
- Plate for ring joint shall meet requirements of G40.21 and ASTM A36.

NOT TO SCALE

FOR RING JOINT      FOR RIBS 12 & 21:

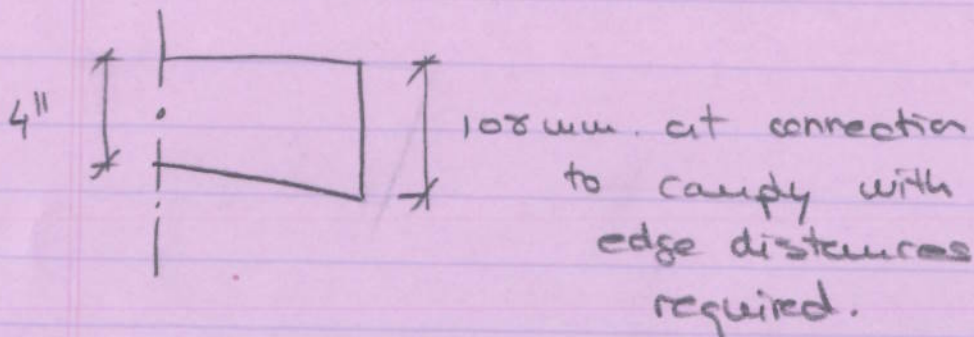
\* increase width of rib elements  
at joints as follows:



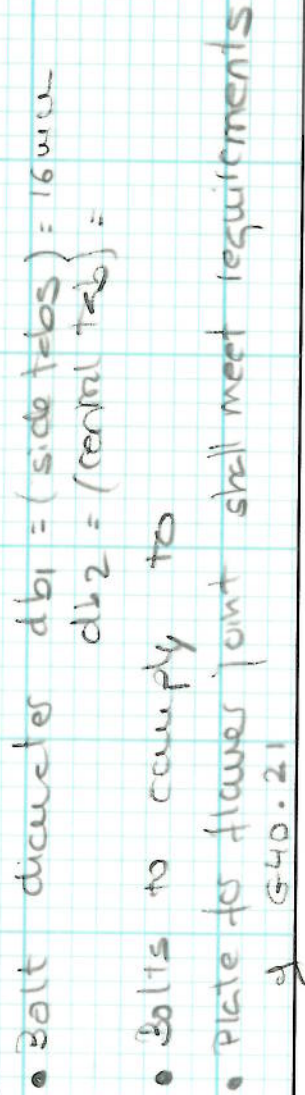
Plan View  
Half rib

NOT TO SCALE

FOR ALL OTHER JOINTS

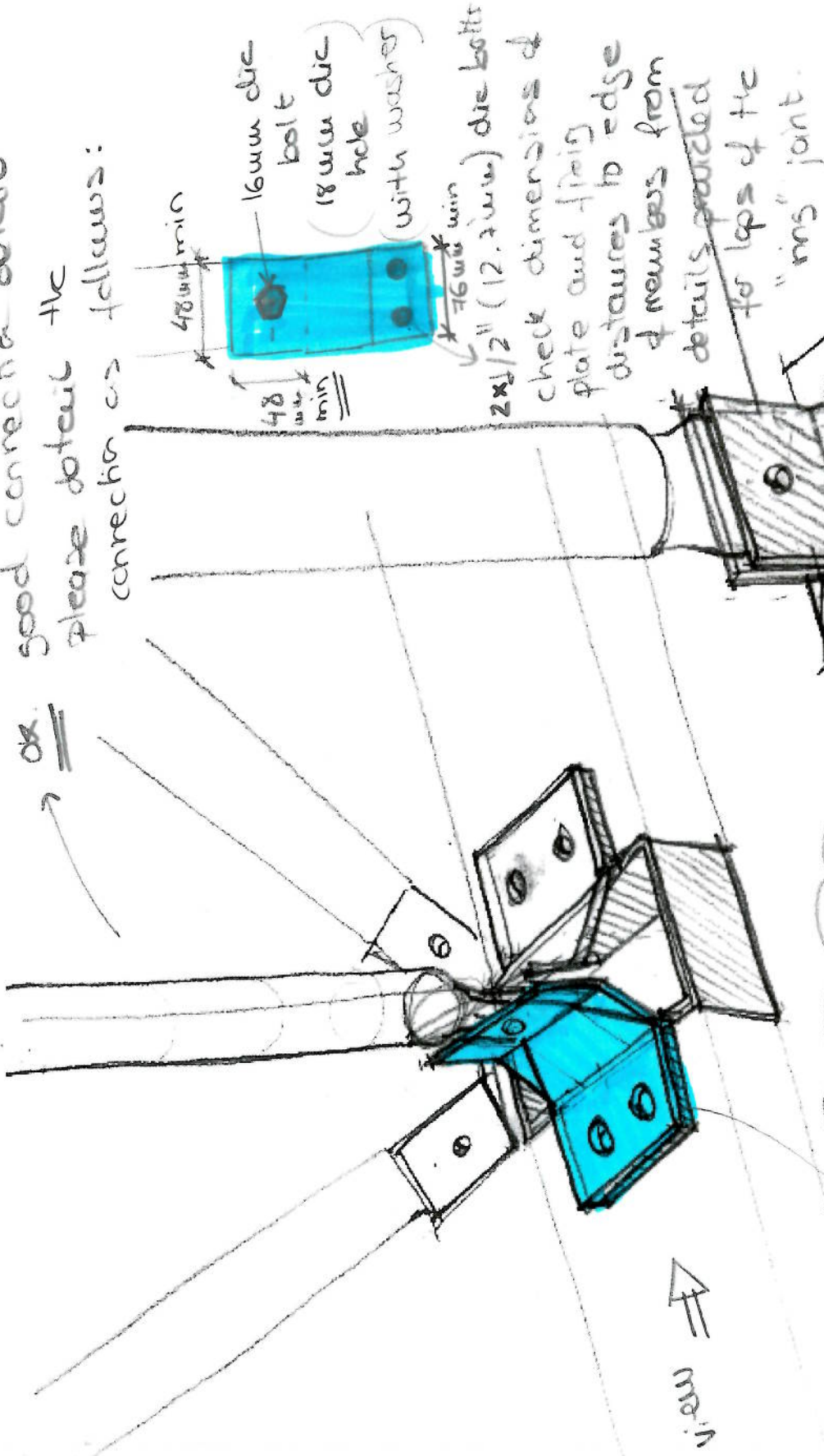





$$d_{hcb2} = 24 \text{ u.u.}$$

# REINFORCING VERTICAL BARS

good connection detail  
please detail the  
connection as follows:



check also connection  
with 3x 1/2" bolts in  
nb tab for elements  
21 & 12