

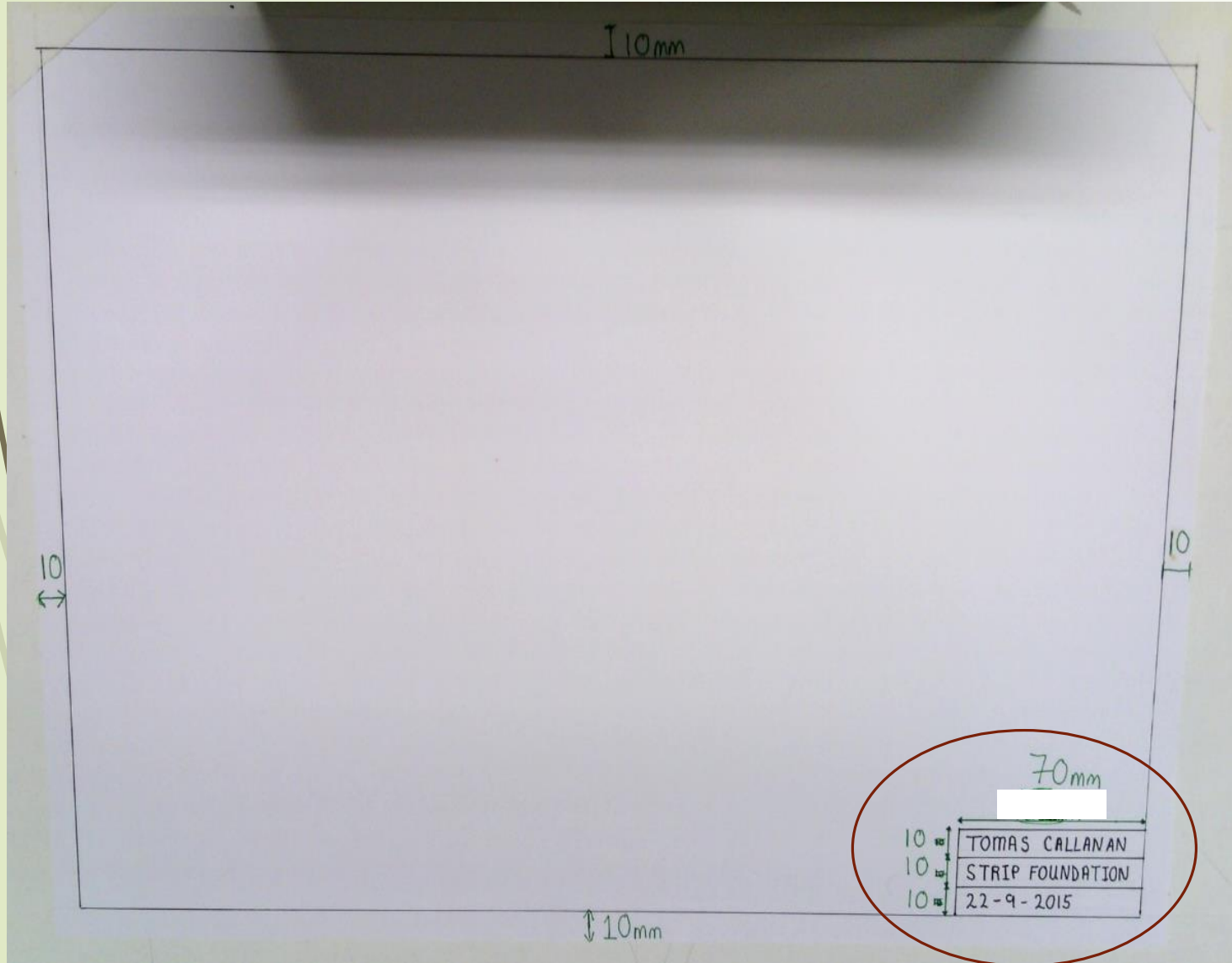


Introduction to A3 Construction Detail Drawing

No.1 Strip Foundation Detail
No.2 Raft Foundation Detail

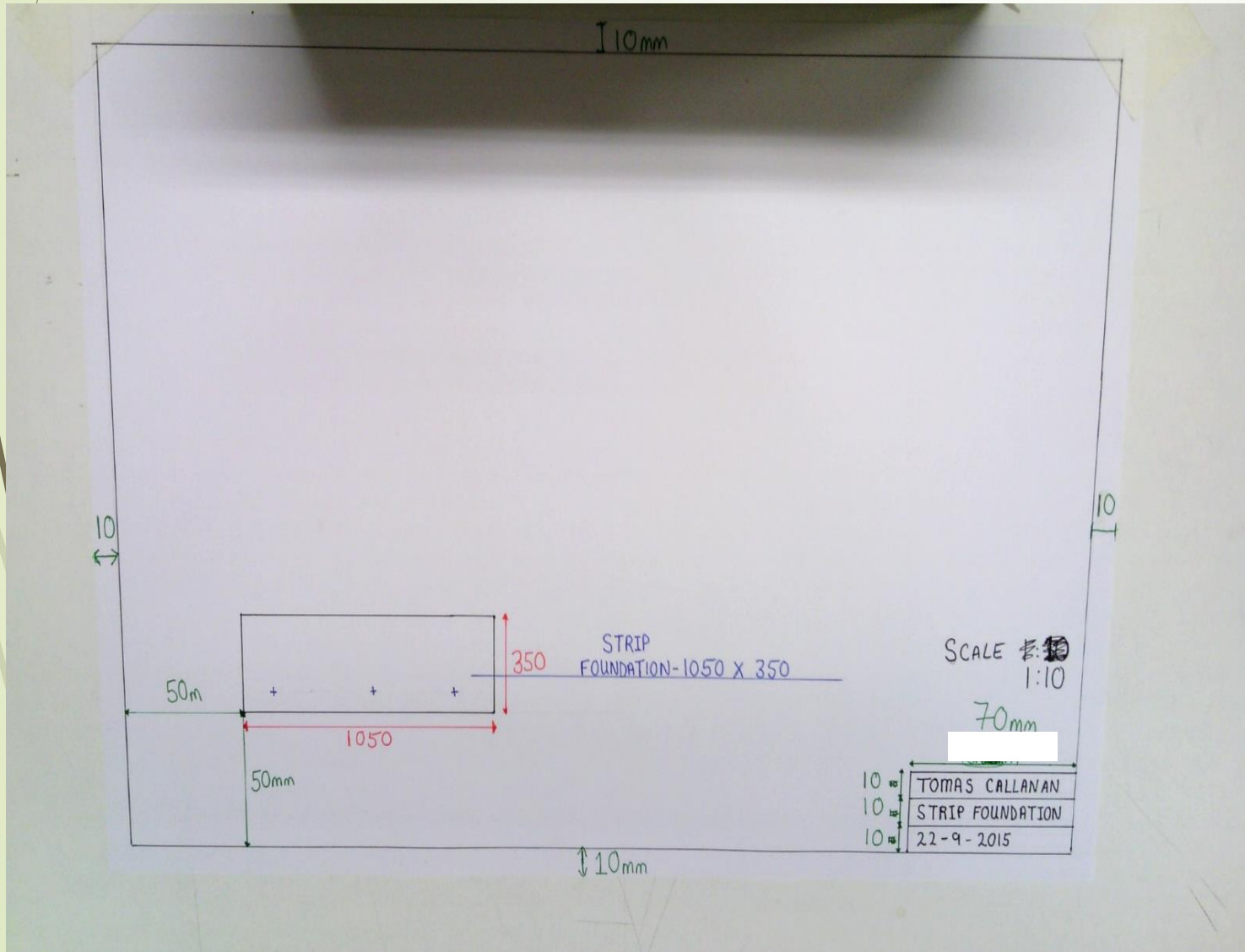
Key skills needed for Mandatory Exam Paper Question 1!!!

No.1 Strip Foundation Detail- First Steps



1. Set up your page by lining up your T-Square with the edge of the page. ■
2. Use masking tape to ensure your page is stuck to the table. ■
3. Draw a horizontal line 10mm from the bottom of the page ■
4. Draw another horizontal line from the top of the page 10mm down from the edge of the page. ■
5. Draw a vertical line 10 mm from the left hand side of the page as shown, also repeat the process on the right hand side. ■
6. From the bottom right hand side draw a box 70mm by 30 mm from the edge of your border you previously created. ■
7. Divide the box into (3) 10mm equal spacing's as shown above ■
8. Draw a light 5mm line inside each spacing, this is where you will write your name in CAPITAL LETTERS, the name of the page and the date as shown above ■

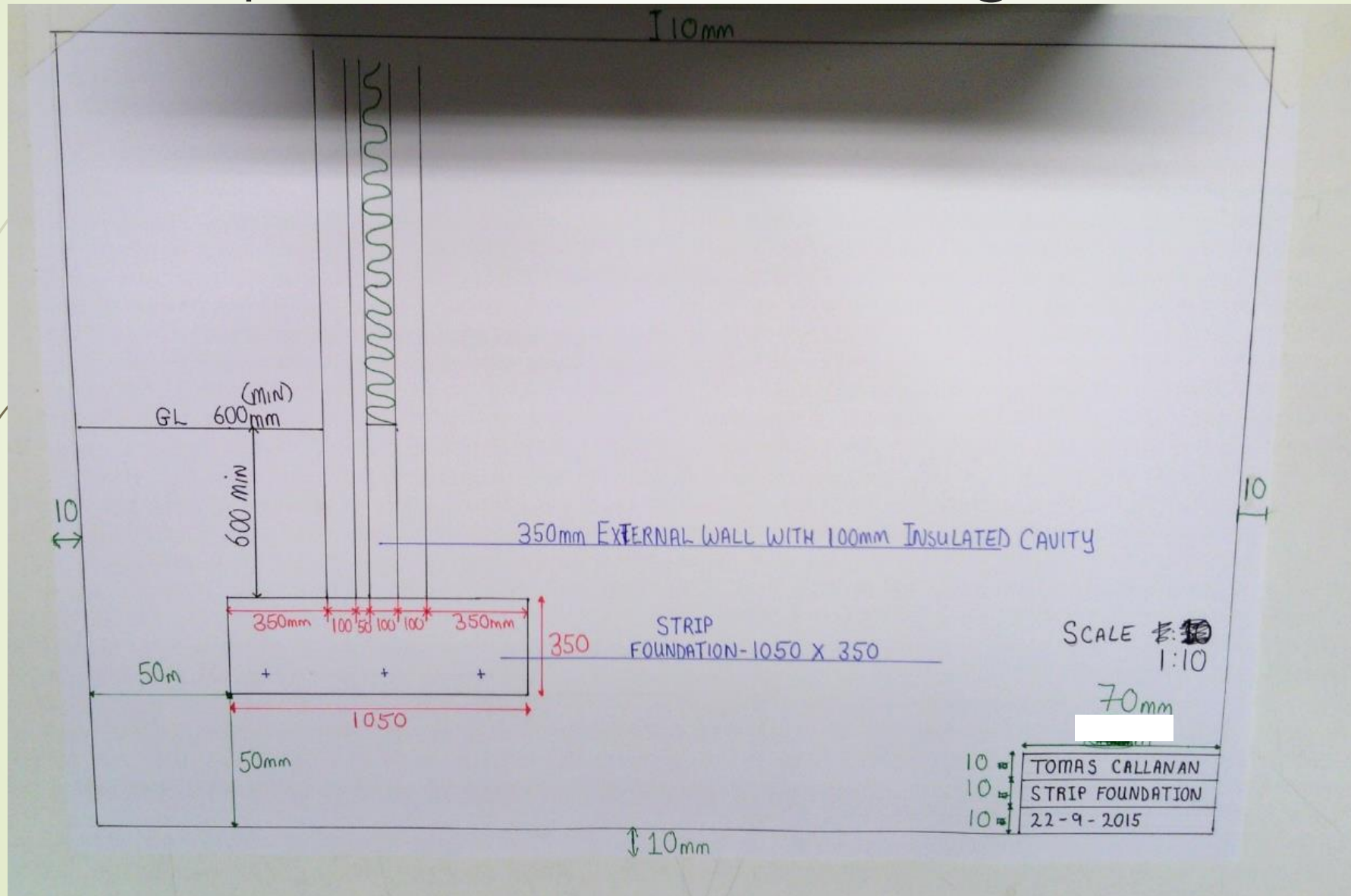
Strip Foundation Detail- Next steps



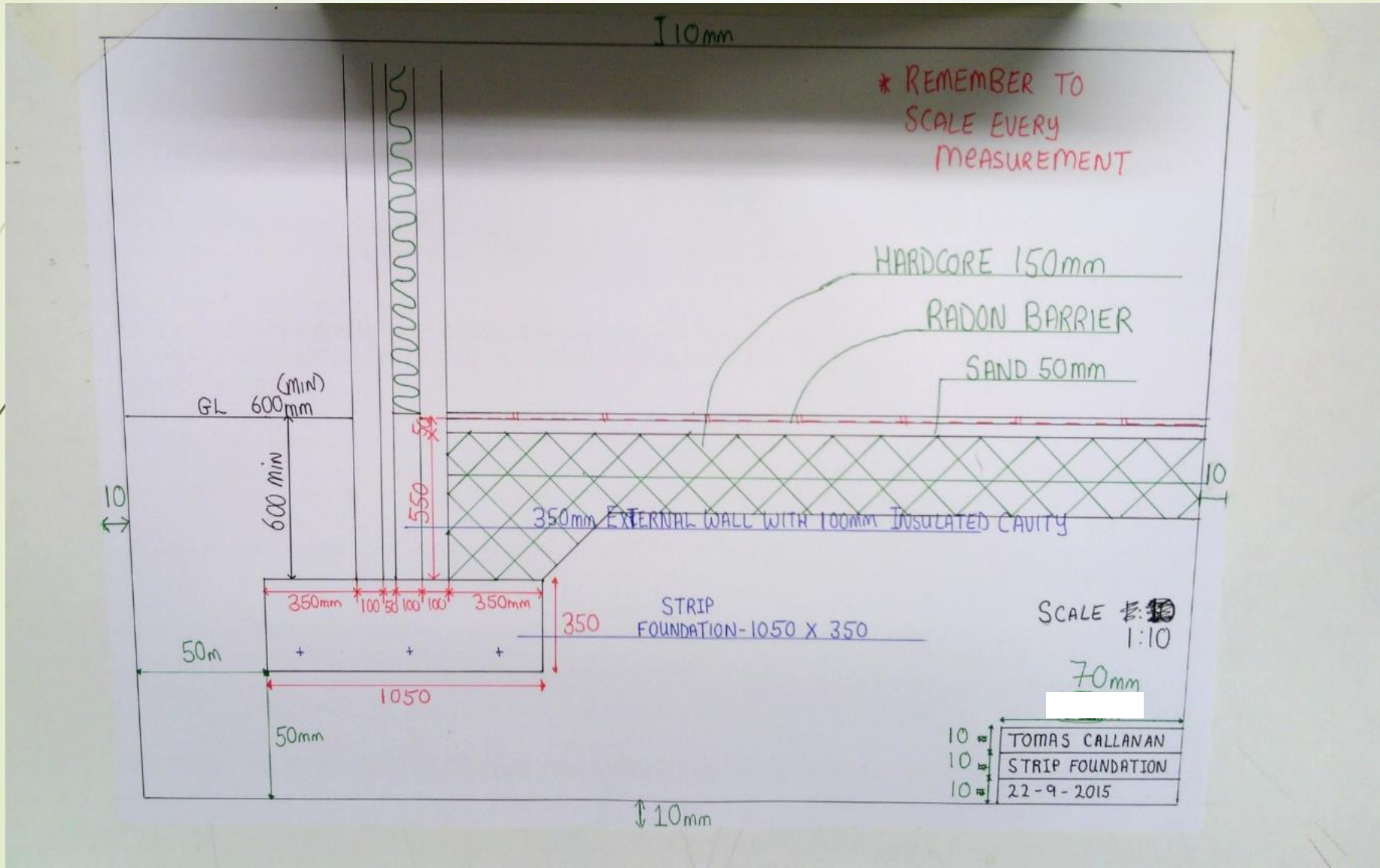
Step 2

1. Drawing is to scale 1:10, so ensure every measurement you use has been scaled down ie Foundation is 1050 by 350 so remember to scale it down by 10. The measurements you will draw will be **105mm by 35mm**.
2. Start your drawing from the left hand side by measuring up 50mm and across 50mm
3. Start to draw your foundation 1050 by 350, make sure you put in the actual sizes in the annotation as shown above

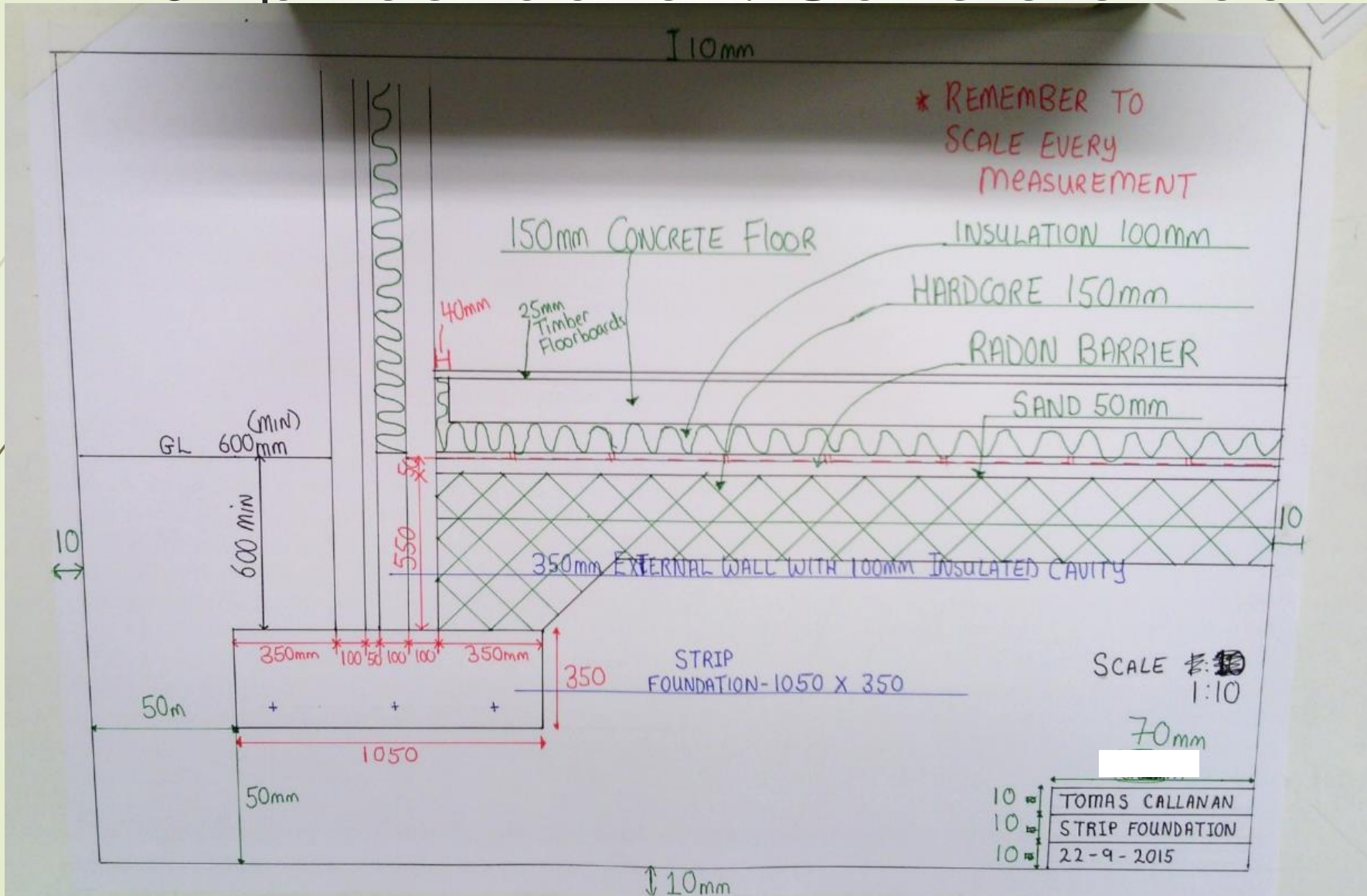
Strip Foundation: Adding External Walls



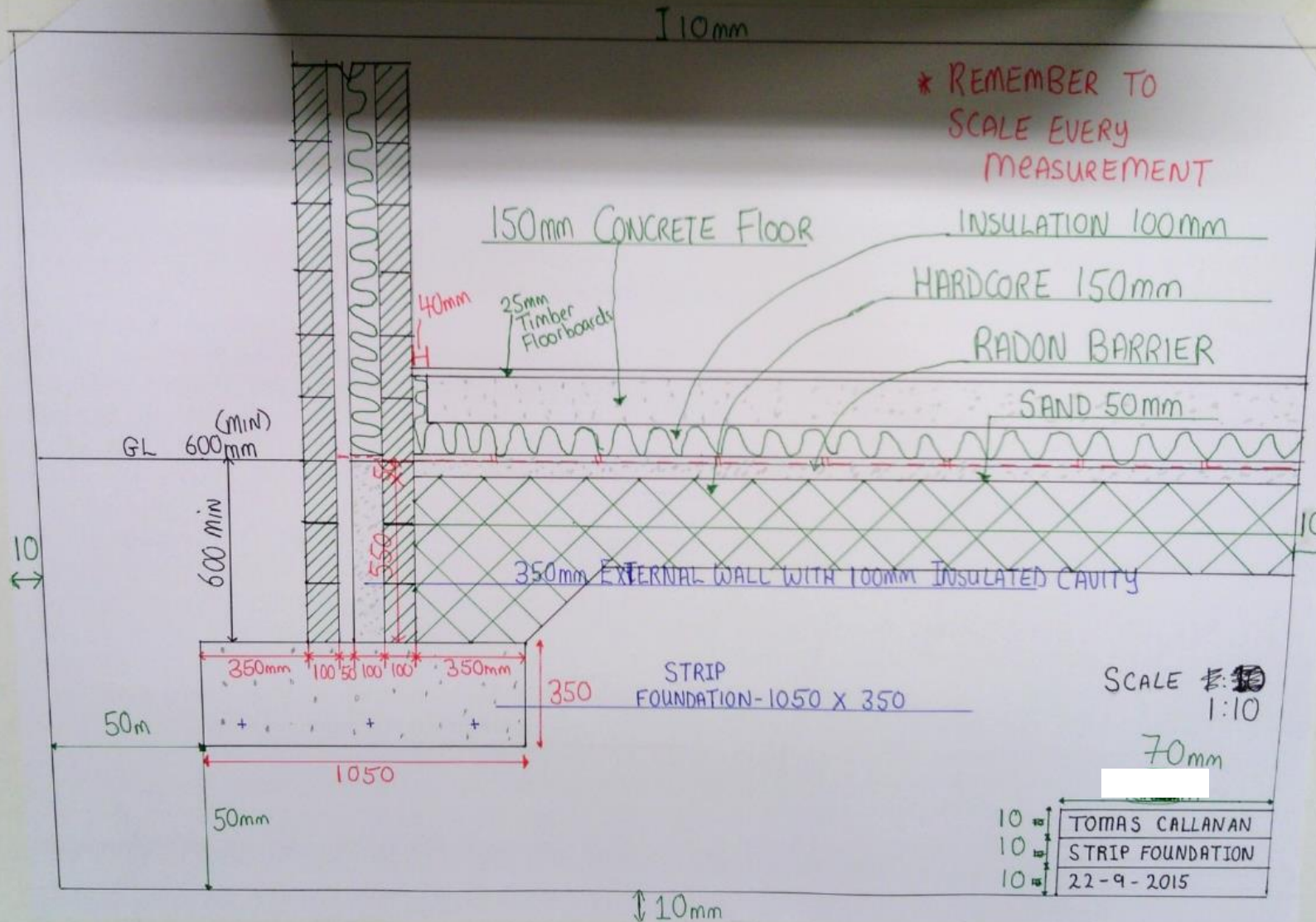
Strip Foundation: Hardcore and Sand



Strip Foundation: Concrete Floor

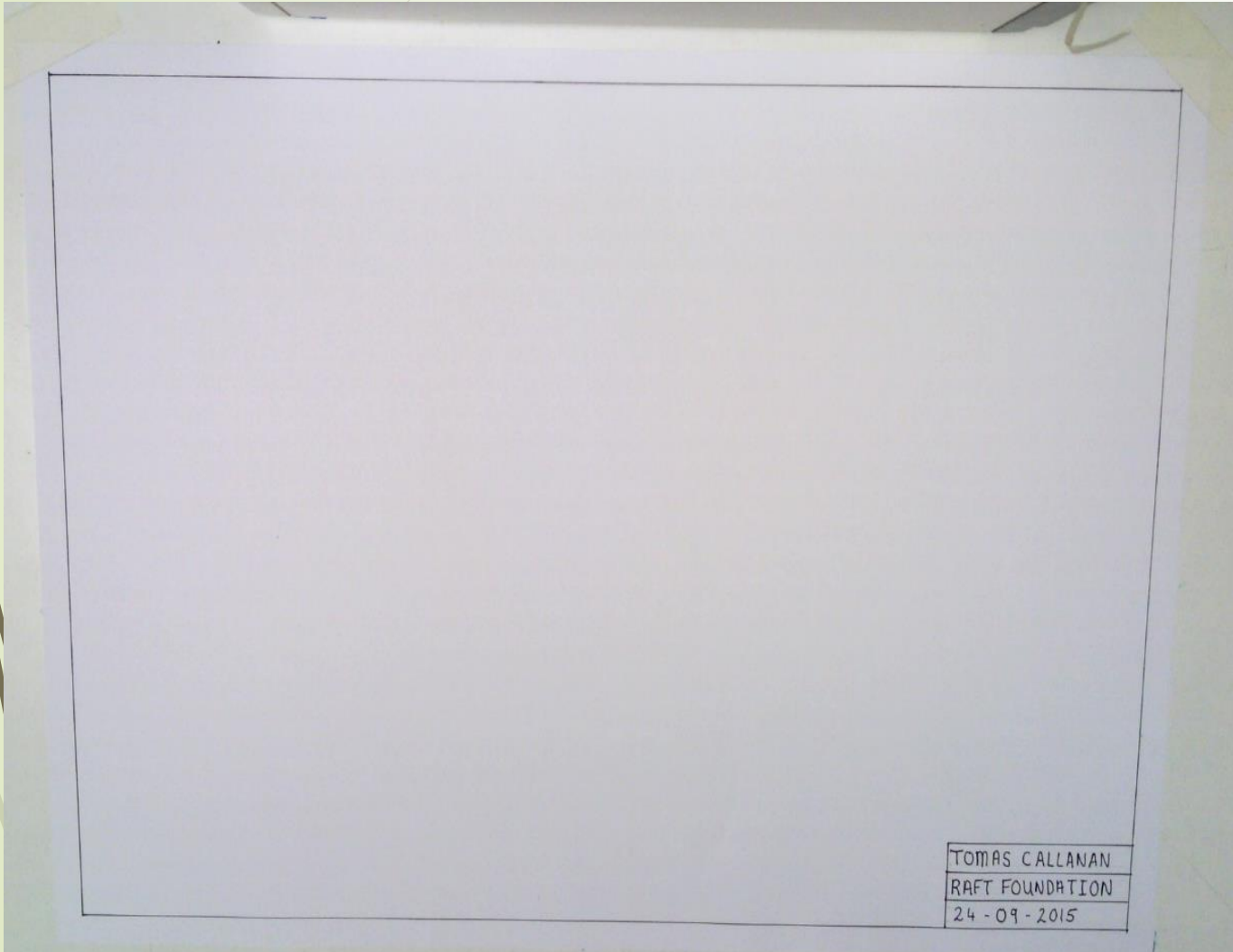


Strip Foundation- Final Detail



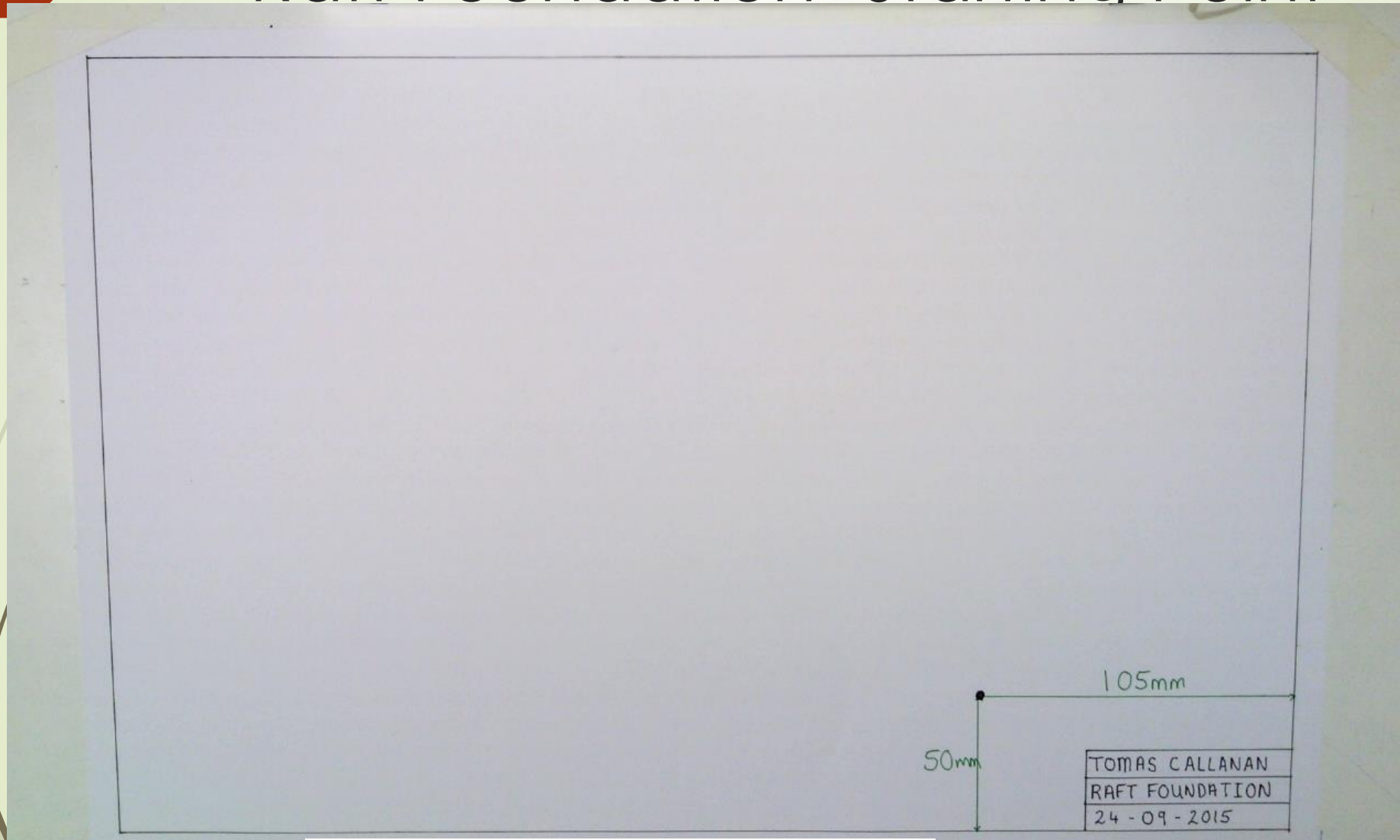
Congrats you have completed your first scale drawing well done!!!

Raft Foundation- Similar Set Up



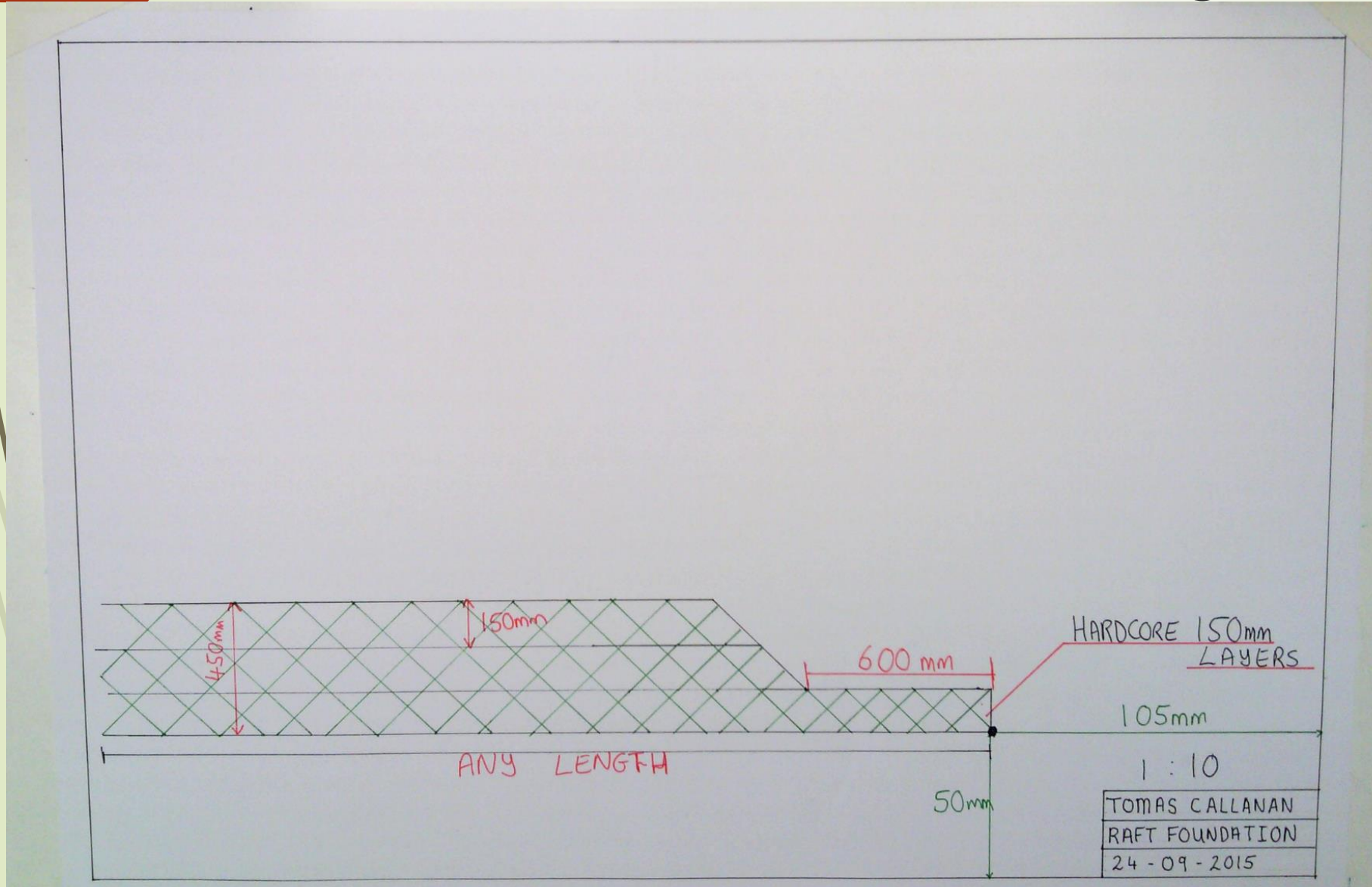
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Raft Foundation- Starting Point



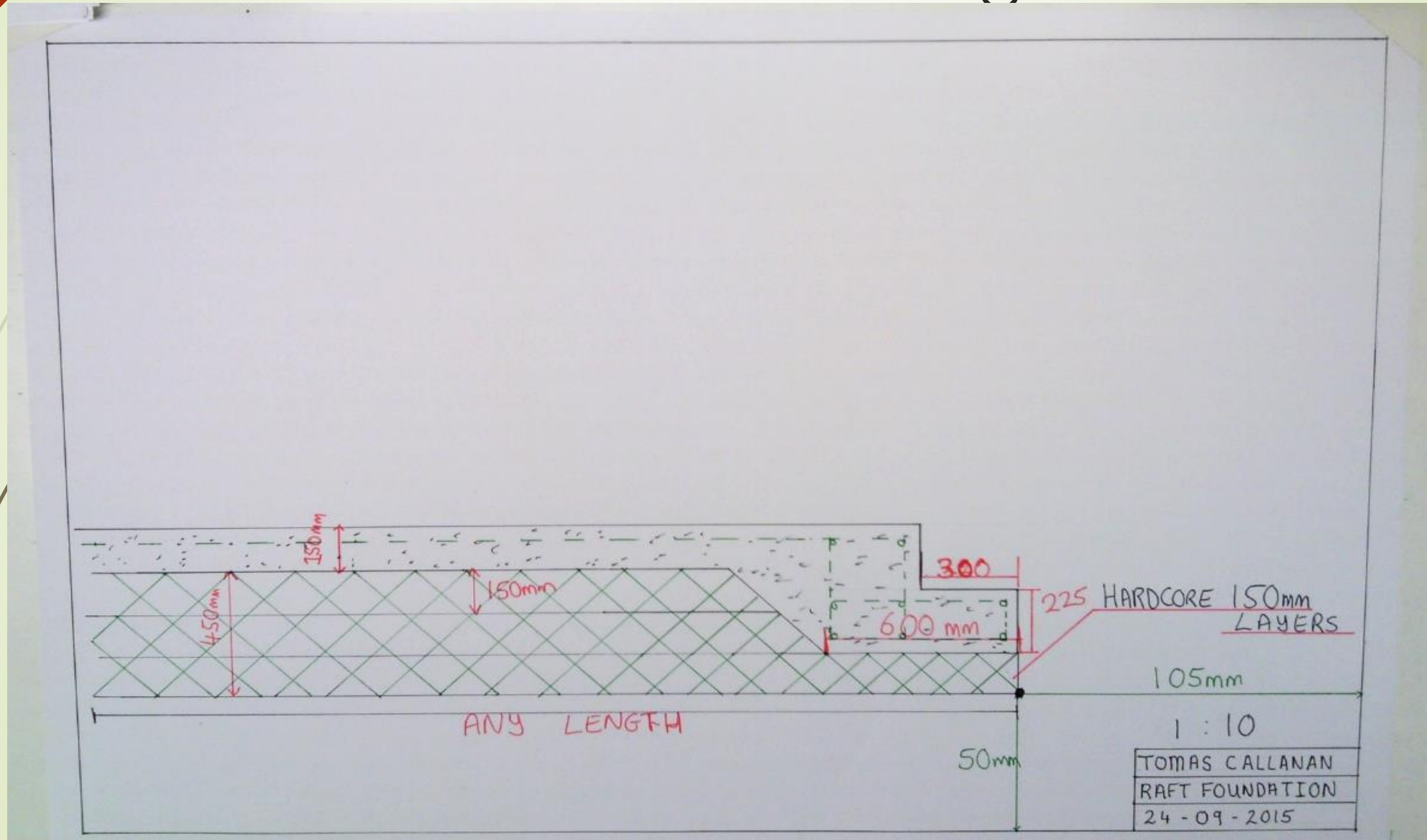
Position the start of your drawing as shown above

Raft Foundation- Adding Hardcore

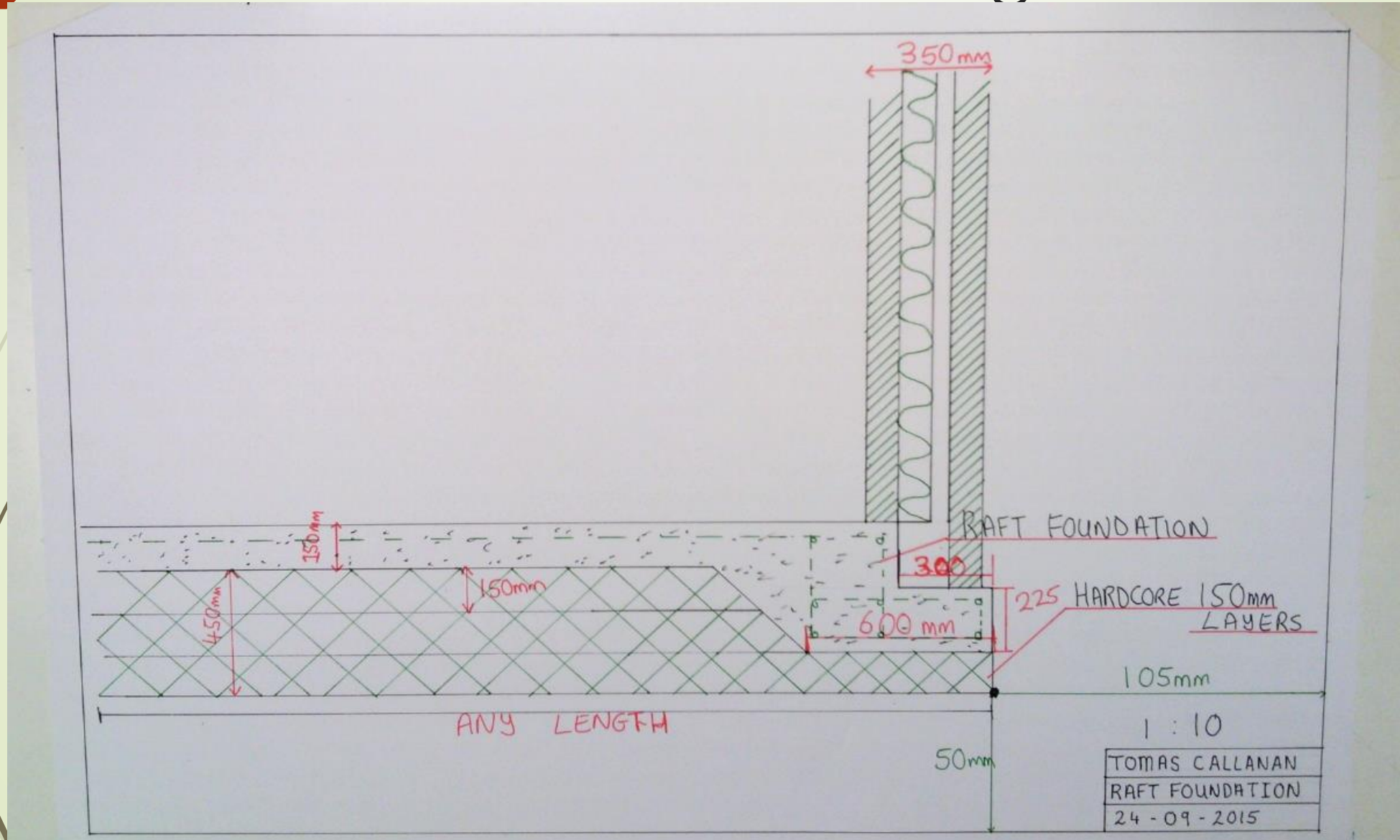


Since this is our second A3 drawing, neatness and accuracy are key components in marking schemes. From this point onwards do not add any annotation. At the end of the drawing we will add all of the annotation and number each element on the left hand side of our page.

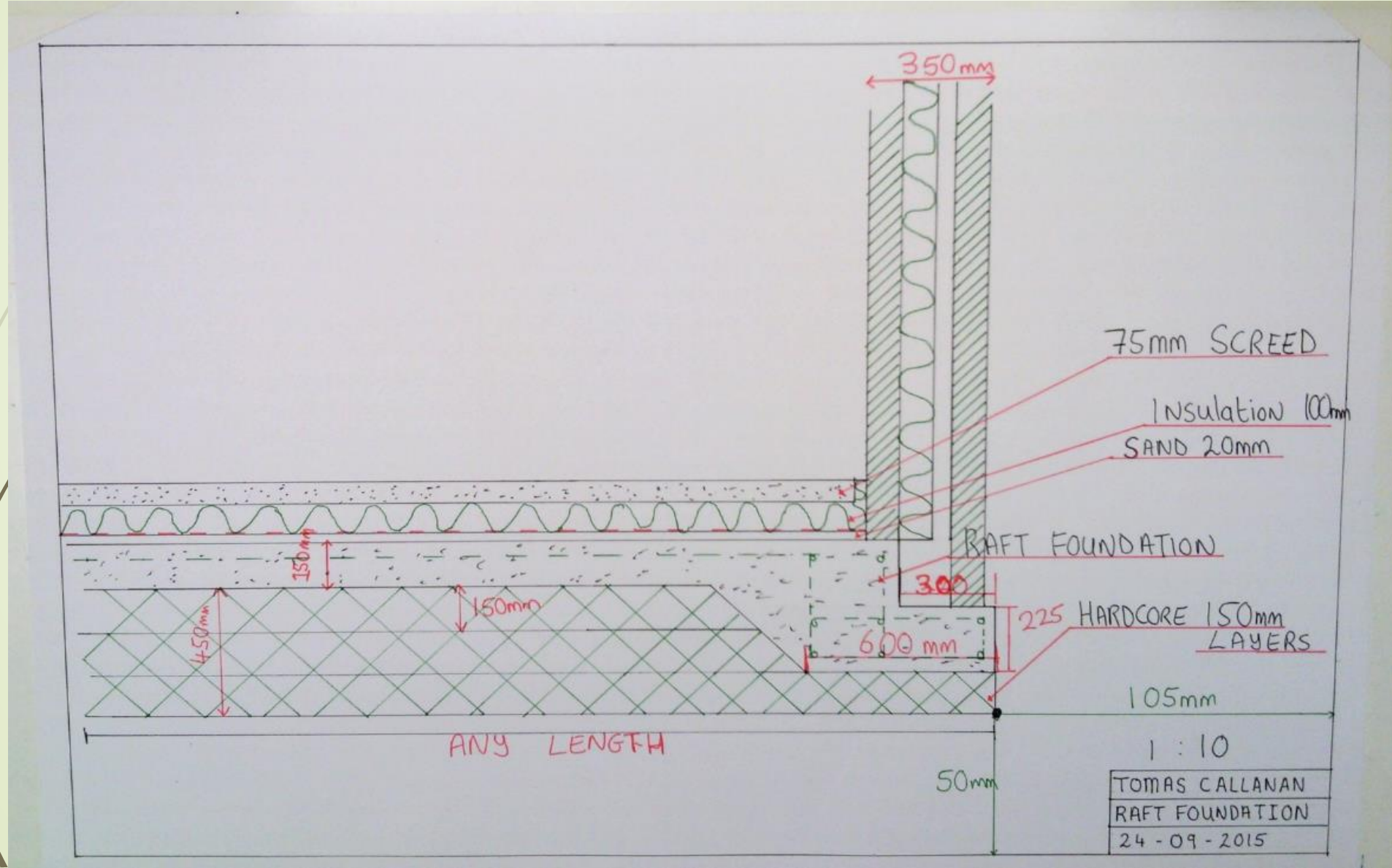
Raft Foundation- Adding Raft



Raft Foundation- Adding External Walls

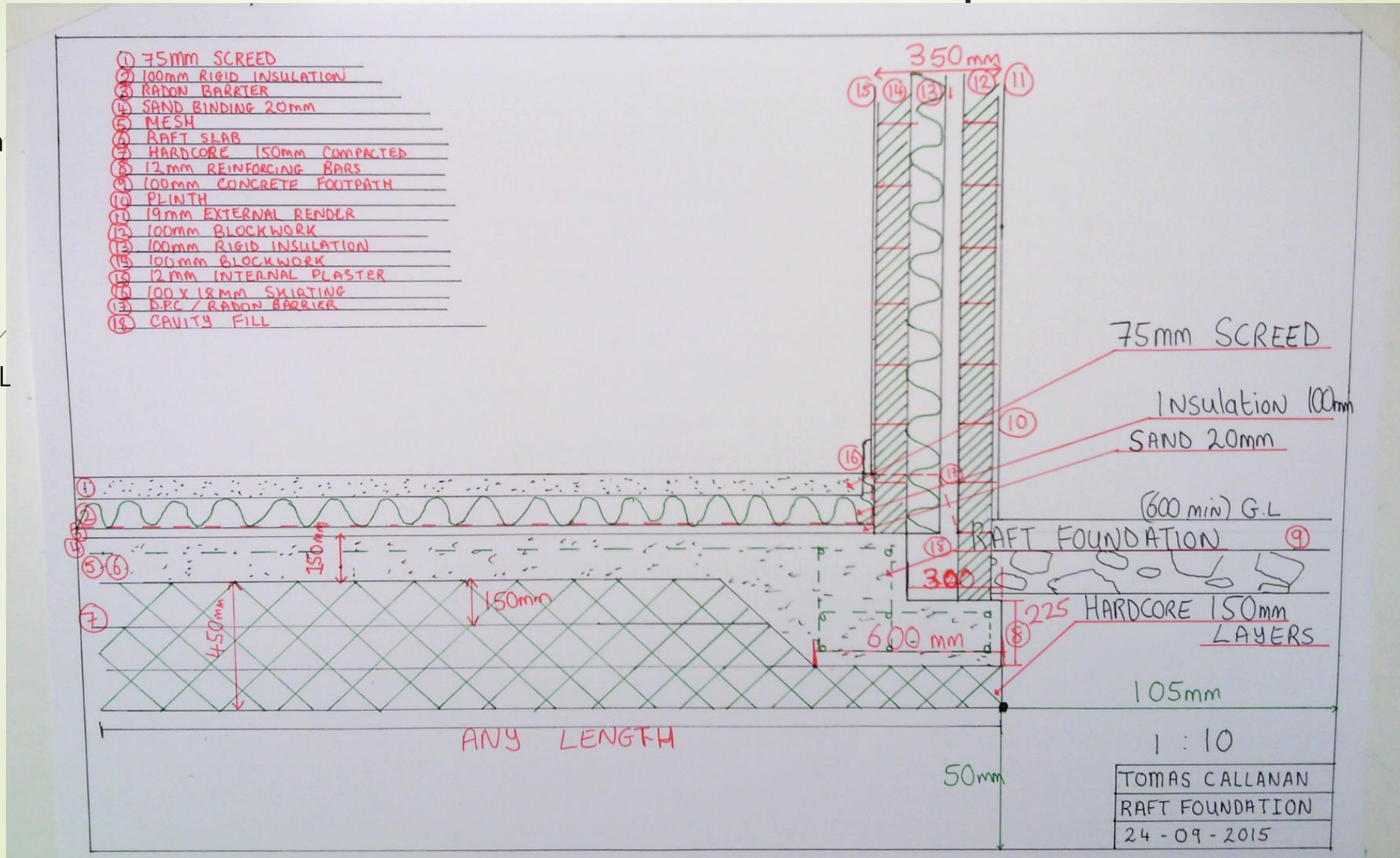


Raft Foundation-Sand, Radon, Insulation and Screed



Raft Foundation- Final Steps

Keep the annotation neat and tidy.
Separate each line 10mm apart. Don't forget to number each element accurately.
Remember CAPITAL LETTERS!!



Key Measurements Assessment

Strip Foundation

Size of Strip Foundation: _____ Scale 1:10= _____

Size of Hardcore: _____ Scale 1:10= _____

Size of External Wall _____ Scale 1:10= _____

Size of Insulation (Ground and Wall) _____ Scale 1:10= _____

Size of blockwork _____ Scale 1:10= _____

Size of cavity (including insulation) _____ Scale 1:10= _____

Size of the sand binding _____ Scale 1:10= _____

Size of ground floor _____ Scale 1:10= _____

Size of minimum ground line height _____ Scale 1:10= _____

Size of timber floorboards _____ Scale 1:10= _____

Raft Foundation

Size of Raft Foundation (thickness) _____ Scale 1:10= _____

Size of Hardcore: _____ Scale 1:10= _____

Size of External Wall _____ Scale 1:10= _____

Size of Insulation (Ground and Wall) _____ Scale 1:10= _____

Size of blockwork _____ Scale 1:10= _____

Size of cavity (including insulation) _____ Scale 1:10= _____

Size of the sand binding _____ Scale 1:10= _____

Size of screed _____ Scale 1:10= _____

Size of minimum ground line height _____ Scale 1:10= _____

Size of external plaster _____ Scale 1:10= _____

Size of internal plaster _____ Scale 1:10= _____

Size of skirting board _____ Scale 1:10= _____

Size of footpath _____ Scale 1:10= _____