



SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

Accredited with “A” grade by NAAC | 12B Status by UGC | Approved by AICTE

Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119

www.sathyabama.ac.in

**SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
PRACTICAL TRAINING PORTFOLIO (SAR4063)
DEC 2022**

Name of the Student : A.KARTHIKEYAN

Batch : 2019 - 2024

Reg No. : 39210035

Semester : VII



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SCHOOL OF BUILDING AND
ENVIRONMENT DEPARTMENT OF
ARCHITECTURE
VIVA-VOCE EXAMINATION

This is to certify that the practical training SAR 4063 is the work of **A.KARTHIKEYAN** who had undergone training in **WALLMAKERS Architectural Consultants** and has been monitored by the continuous assessment during JUNE 2022 to OCTOBER 2022.

Dr. Devyani Gangopadhyay
DEAN

Submitted for Viva voce Examination held on 13-12-2022

Internal Examiner

External Examiner





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DECLARATION

I, **A.KARTHIKEYAN**, by **declaring** that the Training Report **JUNE 2022 to OCTOBER 2022** done by me under the guidance of **Ar.VINU DANIEL** is submitted in partial fulfillment of the requirements for the completion of a practical training session.

DATE : 13 - 12 - 2022

PLACE : CHENNAI

A handwritten signature in black ink, appearing to read 'A. Karthikeyan'.

SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to the Board **of Management of SATHYABAMA** for their kind encouragement in doing this practical training and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr.Devyani Gangopadhyay**, Dean, School of Building and Environment and **Ar.Sarath Chandra Kanth**, Design Chair, Department of Architecture for having been a constant source of support and encouragement.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department who were helpful in many ways for the completion of the project.

I also wish to thank **Ar.VINU DANIEL**, for the experience of interning at their firm.

JOINING LETTER



Wallmakers Architectural Consultants

Kerala | India

M: +91 9846 560 708

vinudaniel@gmail.com

Date: **31st MAY 2022**

TO WHOMSOEVER IT MAY CONCERN

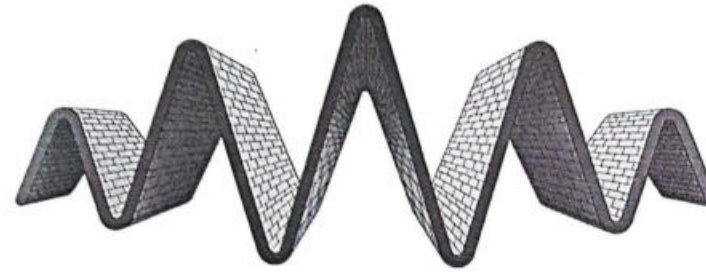
This is to certify that Mr. Karthikeyan. A (39210035) student of Sathyabama has Joined our firm, **Wallmakers** as a part of her professional training from **22nd May 2022** for a period of 6 months.



VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

Ar.Vinu Daniel
Principal Architect
"Wallmakers"
1st floor, Samuels Building Complex
Padivattom, Ernakulam
Kerala, India
vinudaniel@gmail.com

COMPLETION CERTIFICATE



WALLMAKERS
architectural
consultants

WALLMAKERS Architectural
Consultants
Kerala, India

M 098-46-560708

vinudaniel@gmail.com

DATE:

17 October 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Karthikeyan.A, VII semester student of Sathyabama Institute of Science and Technology has worked as an intern in our firm, Wallmakers Architectural Consultancy from 22-05-2022 to 15-10-2022.

During his service tenure he has been found sincere, trustworthy, sociable and an efficient team worker. We wish him all the best for all future endeavours.

VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

Ar.Vinu Daniel
Principal Architect
"Wallmakers"
1st floor, Samuels Building Complex
Padivattom, Ernakulam
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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

- Name of the office / organization :** WALLMAKERS
- Address & Contact Number :** 1st floor, Samuels Building Complex Padivattom, Ernakulam, Kerala, India.
- Name of the student :** A.KARTHIKEYAN.
- Duration :** From 23-05-2022 To 30-06-2022
- Total No. of days :** 34 days

6. Evaluation of Performance criteria shall be on

* **Note:** Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture		✓			
Participation in the office	✓				
Reading of drawings		✓			
Presentation Techniques		✓			
Model making works	✓				
Understanding of construction details	✓				
Drafting Skills (Manual / Computer)	✓				
Site Supervision / Discussion with clients	✓				
Adherence to Time schedule		✓			
Other computer skills	✓				
File and Office Maintenance	✓				
Coordination with other consultants	✓				
Overall Grading*	A				

(A – 9.0, B – 8.0, C – 7.0, D – 6.0, E – 5.0)



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7. Any other Remarks : _____

8. Signature of the:
Head of the Office
/ Organization
(With Seal)


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REGISTERED ARCHITECT
CA/2007/40274

Ar.Vinu Daniel
Principal Architect
"Wallmakers"
1st floor, Samuels Building Complex
Padivattom, Ernakulam
Kerala, India
vinudaniel@gmail.com

June Monthly Report



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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : WALLMAKERS
2. Address & Contact Number : 1st floor, Samuels Building Complex Padivattom, Ernakulam, Kerala, India.
3. Name of the student : A.KARTHIKEYAN.
4. Duration : From 01-07-2022 To 31-07-2022
5. Total No. of days : 26 days

6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office	✓				
Reading of drawings			✓		
Presentation Techniques		✓			
Model making works		✓			
Understanding of construction details		✓			
Drafting Skills (Manual / Computer)			✓		
Site Supervision / Discussion with clients	✓				
Adherence to Time schedule		✓			
Other computer skills		✓			
File and Office Maintenance		✓			
Coordination with other consultants	✓				
Overall Grading*	B				

(A – 9.0, B – 8.0, C – 7.0, D – 6.0, E – 5.0)



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7. Any other Remarks : —

8. Signature of the:
Head of the Office
/ Organization
(With Seal)


VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

Ar. Vinu Daniel
Principal Architect
"Wallmakers"
1st floor, Samuels Building Complex
Padivattom, Ernakulam
Kerala, India
vinudaniel@gmail.com

July Monthly Report



SATHYABAMA

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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee architect for the period of One month in the office to submitted to HOD by the Trainee in Charge of the Organization)

- Name of the office / organization :** WALLMAKERS
- Address & Contact Number :** 1st floor, Samuels Building Complex Padivattom, Ernakulam, Kerala, India.
- Name of the student :** A.KARTHIKEYAN.
- Duration :** From 01-08-2022 To 31-08-2022
- Total No. of days :** 29 days

6. Evaluation of Performance criteria shall be on

* **Note:** Kindly grade the student as per his/her overall performance in the office during the assessment month which will be converted to the allotted 90 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office		✓			
Reading of drawings		✓			
Presentation Techniques		✓			
Model making works					✓
Understanding of construction details	✓				
Drafting Skills (Manual / Computer)			✓		
Site Supervision / Discussion with clients	✓				
Adherence to Time schedule			✓		
Other computer skills					✓
File and Office Maintenance	✓				
Coordination with other consultants	✓				
Overall Grading*	A				

(A – 9.0, B – 8.0, C – 7.0, D – 6.0, E – 5.0)



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- Any other Remarks :** Very good in participatin in site works (marking and Site Supervisor)

8. Signature of the:
Head of the Office
/ Organization
(With Seal)


VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

Ar.Vinu Daniel
Principal Architect
"Wallmakers"
1st floor, Samuels Building Complex
Padivattom, Ernakulam
Kerala, India
vinudaniel@gmail.com

August Monthly Report

Logbook

MAY

23-05-2022	Manoj Residence physical model
24-05-2022	Plot 24 doors and windows elevation started.
25-05-2022	Site work + Plot 24 dwg drawing doors and windows elevation correction.
26-05-2022	Plot 24 site supervision- plastering and sacking above slab.
27-05-2022	Plot 24 site supervision- Kitchen counter dimension marking & Gas line marking.
28-05-2022	Kitchen counter marking and Quarry Physical model making
29-05-2022	Nil
30-05-2022	Gas line fixing in site and soak pit completed (electrical lines laid)
31-05-2022	Slab screeding and Soak pit top layer concreting completed.

JUNE

01-06-2022	Cabinet elevation Dwg drawing started.
02-06-2022	Level marking for roof slope.
03-06-2022	Site model skp work started given by Sajid.
04-06-2022	Model render given by Sajid.
05-06-2022	Cabinet and Wardrobe Drafting work for plot 24 started.
06-06-2022	Cabinet and Wardrobe Drafting.
07-06-2022	Cabinet and Wardrobe Drafting.
08-06-2022	Cabinet and Wardrobe Drafting.
09-06-2022	Completed the Cabinet and Wardrobe Drafting.
10-06-2022	24- Site supervision.
11-06-2022	24- Site supervision.
12-06-2022	Printout checking with carpenters.
13-06-2022	Wooden doors dwg drawing for plot 24 started.
14-06-2022	Wooden doors dwg drawing work.
15-06-2022	Wooden doors dwg drawing work.

16-06-2022	Wooden doors dwg drawing work.
17-06-2022	Wood Procurement - Villupuram.
18-06-2022	Wood Procurement - Villupuram -Ananthapuram.
19-06-2022	Wood Procurement - Villupuram -Ananthapuram.
20-06-2022	Wood Procurement - Villupuram -Ananthapuram.
21-06-2022	Wood Procurement - Villupuram -Ananthapuram.
22-06-2022	Wood Procurement - Villupuram -Ananthapuram.
23-06-2022	Started to work in new project -Chuzhi site understanding
24-06-2022	Chuzhi site supervision.
25-06-2022	Detail of framework for glass.
26-06-2022	Site supervision- Frame work welding.
27-06-2022	Site supervision- Frame work welding.
28-06-2022	Site supervision- Frame work welding.
29-06-2022	Kitchen cabinet elevation for chuzhi dwg drafting.
30-06-2022	Chuzhi Site supervision- Frame work welding.

JULY

01-07-2022	Site supervision- Frame work welding.
02-07-2022	AMRL site marking.
03-07-2022	AMRL physical model started.
04-07-2022	AMRL physical model .
05-07-2022	Chuzhi Site supervision- Glass marking started
06-07-2022	Chuzhi Site supervision- Glass marking started
07-07-2022	Chuzhi Site supervision- Glass marking started
08-07-2022	Chuzhi Site supervision- Glass marking started
09-07-2022	Site Frame welding 90% completed.
10-07-2022	Site supervision- Glass marking and fabrication work.
11-07-2022	Site supervision

12-07-2022	Mosquito mesh section dwg drawing.
13-07-2022	Section, Front door plan dwg drafting.
14-07-2022	Section and elevation.
15-07-2022	Site supervision.
16-07-2022	Leave.
17-07-2022	Leave.
18-07-2022	Chuzhi site supervision.
19-07-2022	Started to work in new project: A-frame site understanding.
20-07-2022	Pipe calculation
21-07-2022	Box section calculation and clearance marking.
22-07-2022	Site supervision-beam placement for living room slab
23-07-2022	Site supervision- roof fabrication welding
24-07-2022	Site supervision.
25-07-2022	Site supervision- foundation work
26-07-2022	A-FRAME- Site supervision
27-07-2022	A-FRAME- Site supervision
28-07-2022	A-FRAME- Site supervision
29-07-2022	A-FRAME- Site supervision
30-07-2022	A-FRAME- Site supervision
31-07-2022	Site supervision,elevation for storage drawing.
AUGUST	
01-08-2022	A-FRAME- Site supervision
02-08-2022	A-FRAME- Site supervision
03-08-2022	A-FRAME- Site supervision

04-08-2022	A-FRAME- Site supervision
05-08-2022	A-FRAME- Site supervision
06-08-2022	A-FRAME- Site supervision
07-08-2022	A-FRAME- Site supervision
08-08-2022	A-FRAME- Site supervision
09-08-2022	A-FRAME- Site supervision
10-08-2022	A-FRAME- Site supervision
11-08-2022	A-FRAME- Site supervision
12-08-2022	A-FRAME- Site supervision
13-08-2022	A-FRAME- Site supervision
14-08-2022	A-FRAME- Site supervision
15-08-2022	Section for walls -dwg
16-08-2022	Section for walls(kitchen cabinet side) -dwg
17-08-2022	Section for walls(kitchen cabinet side) -dwg
18-08-2022	A-FRAME- Site supervision
19-08-2022	A-FRAME- Site supervision
20-08-2022	A-FRAME- Site supervision
21-08-2022	A-FRAME- Site supervision
22-08-2022	A-FRAME- Site supervision
23-08-2022	Section for living room-drawing
24-08-2022	Section for Bedroom-drawing
25-08-2022	Section for Bedroom-drawing
26-08-2022	A-FRAME- Site supervision
27-08-2022	Site supervision and Steps drawing
28-08-2022	Site supervision and Steps drawing

29-08-2022	Site supervision and Steps drawing
30-08-2022	A-FRAME- Site supervision
31-08-2022	Gusset plate drawing and site super vision
SEPTEMBER	
01-09-2022	MS flat drawing and site super vision
02-09-2022	MS flat drawing and site super vision
03-09-2022	MS flat drawing and site super vision
04-09-2022	A-FRAME- Site supervision
05-09-2022	A-FRAME- Site supervision
06-09-2022	A-FRAME- Site supervision
07-09-2022	A-FRAME- Site supervision
08-09-2022	Nil
09-09-2022	Steps detailed drawing and site supervision
10-09-2022	TMT rod supports drawing and site supervision
11-09-2022	TMT rod supports drawing and site supervision
12-09-2022	A-FRAME- Site supervision
13-09-2022	A-FRAME- Site supervision
14-09-2022	Electrical drawing and site supervision
15-09-2022	Electrical drawing and site supervision
16-09-2022	Sheet elevation drawing & drawings rework (steps and plan)
17-09-2022	A-FRAME- Site supervision
18-09-2022	A-FRAME- Site supervision
19-09-2022	Site supervision, foundation drawing and bed drawing
20-09-2022	Site supervision and bed drawing
21-09-2022	A-FRAME- Site supervision
22-09-2022	A-FRAME- Site supervision
23-09-2022	Electrical drawing and Site supervision
24-09-2022	A-FRAME- Site supervision
25-09-2022	A-FRAME- Site supervision
26-09-2022	A-FRAME- Site supervision
27-09-2022	A-FRAME- Site supervision

28-09-2022	A-FRAME- Site supervision
29-09-2022	A-FRAME- Site supervision
30-09-2022	A-FRAME- Site supervision
OCTOBER	
01-10-2022	Plumbing drawing and site supervision
02-10-2022	sheet cutting interior and exterior drawing & site supervision
03-10-2022	sheet drawing ,toilet walls and site supervision
04-10-2022	A-FRAME- Site supervision
05-10-2022	Plumbing water supply dwg ,Sheet roofing detail and site supervision
06-10-2022	Furniture plan ,Sheet roofing detail and site supervision
07-10-2022	A-FRAME- Site supervision
08-10-2022	A-FRAME- Site supervision
09-10-2022	A-FRAME- Site supervision
10-10-2022	A-FRAME- Site supervision
11-10-2022	pool drawing and site supervision
12-10-2022	pool drawing and site supervision
13-10-2022	Roof detail correction and site vision
14-10-2022	Roof detail correction and site vision
15-10-2022	Pool drawing correction and site supervision

List of Drawings

- 1 Plot 24 - Carpentry Drawing.
- 2 Plot 24 - Glass Doors Drawing.
- 3 Chuzhi - Glass Framework Detail Drawing.
- 4 Chuzhi - New Electrical Drawing.
- 5 Chuzhi - Mesh Drawing.
- 6 A-Frame - Corrected Plan, Section & Elevation Drawing.
- 7 A-Frame - Sheet Interior and Exterior Elevation Drawing.
- 8 A-Frame - Foundation for Supports Drawing.
- 9 A-Frame - Steps Drawing
- 10 A-Frame - Electrical Drawing.
- 11 A-Frame - Plumbing Drawing.
- 12 A-Frame - Roofing Drawing.
- 13 A-Frame - Swimming Pool Drawing.

CONTENTS

1. About the Firm

CHAPTER 1: **TRAINING REPORT**(03-36)

1.1 Flinstone (plot 6, 24)

1.2 Chuzhi

1.3 Previous A-Frame

1.4 Later A-Frame

CHAPTER 2: **BUILDING MATERIAL RESEARCH**.....(37-38)

2.1 Casuarina

2.2 Pillamaruthu Wood

CHAPTER 3: **PHYSICAL MODEL**.....(39-49)

3.1 AMRL

3.2 Manoj Residence

3.3 SPB memorial

3.4 Critical Overview



SANTCTITY FERME

Sanctity Ferme is a highly productive sustainable living community located in Shoolagiri, Tamilnadu. They converted 150+ acres of barren land into a sustainable living place and the main vision is to build and empower eco-friendly communities.



WALLMAKERS AT SANTCTITY FERME

One of the strength where Wallmakers come in is sustainable architecture. Baiju C. K, the managing director of Sanctity Ferme is the client to Ar. Vinu Daniel for building sustainable houses at Sanctity Ferme.

Wallmakers don't have an office and work on site, I had the opportunity to work in sanctity ferme (SF-1&3) on various projects, including Chuzhi, A-frame and other wallmakers projects. The main concept in SF projects is camouflage architecture (Buildings that exist harmoniously with in the context). The projects put in the portfolio, it's a collective effort of the entire team where each person is given a different role and then it's put together.



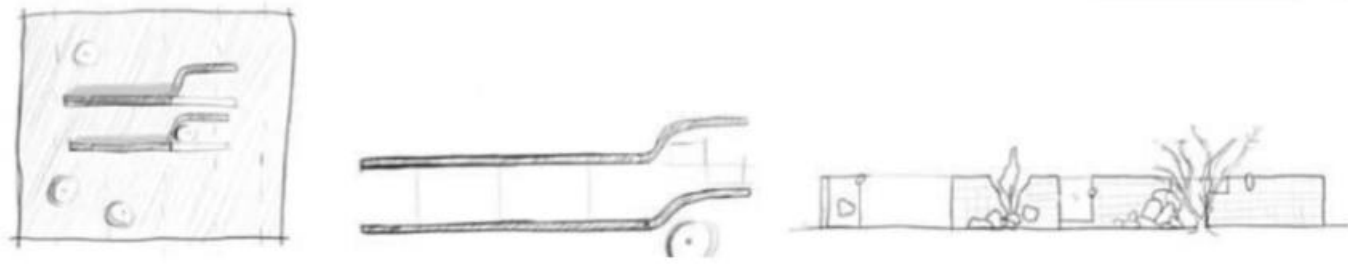
SITE INCHARGE

As a site supervisor, I went to site daily, explained the drawings to masons and welders and monitored them. I created monthly schedule discussing with the senior architect and Vinu sir and I updated the work progress everyday.

FLINSTONE



VIEWS OF THE HOUSE



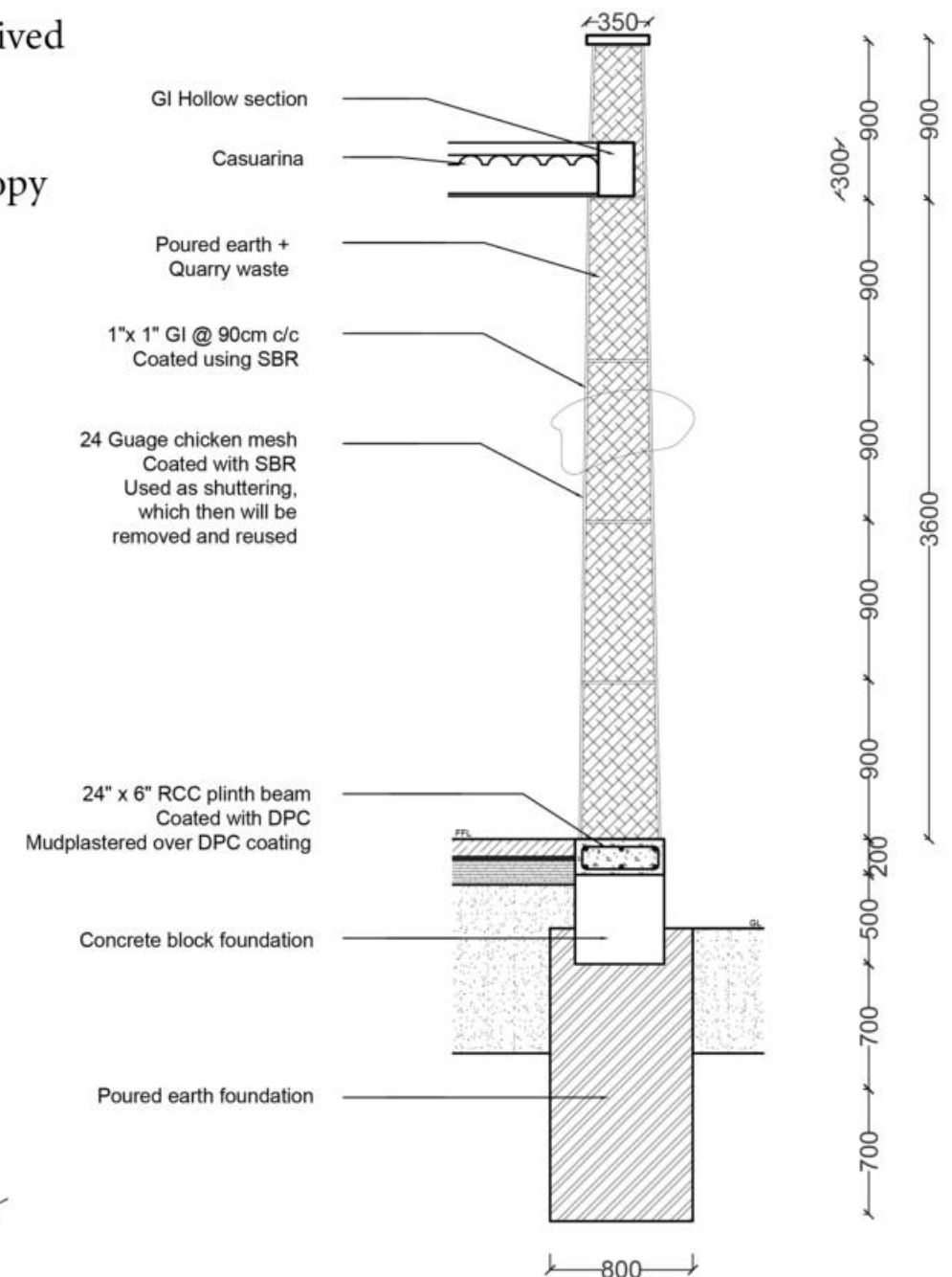
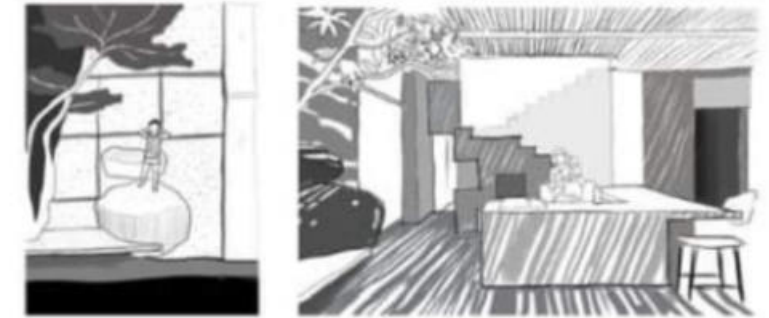
Flinstone6 is designed as a modern building with a sustainable flair, hidden inside a Mango grove amongst the arid landscape. The 2 bed cottage had a multi functional hall with an open kitchen. The house has parallel walls on the northern and southern sides that mimic the characteristics of rocky mountains in the Cauvery basin region. Trees cohabit with the building making it an extension of nature.

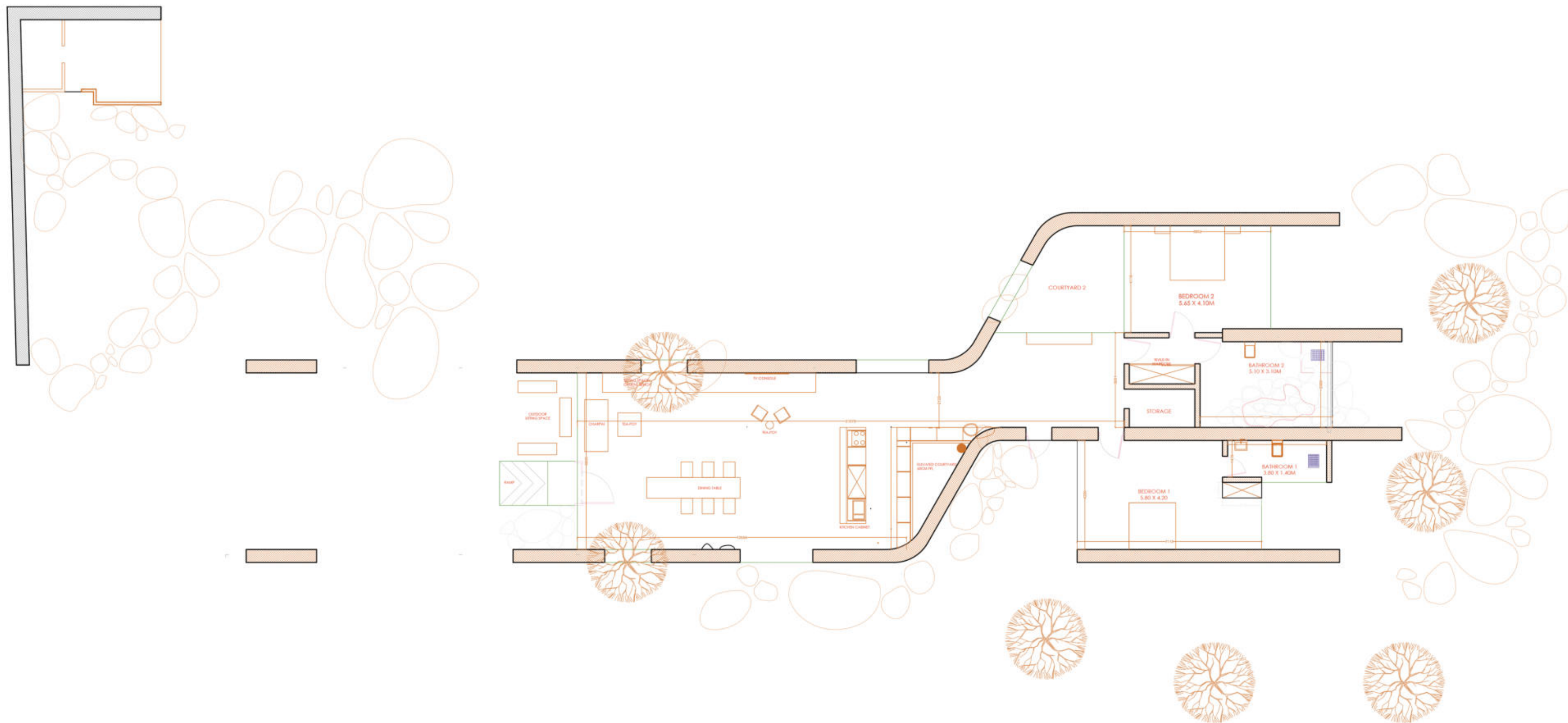
The composite Casuarina-glazed roof acts as a sundial and the composite Casuarina-ferrocement roof doubles up as a party terrace. The interiors were planned very minimally and subtly toned down to not steal the thunder of the Debris Walls using a neutral material palette. The rock bed in the master bedrooms is a reclaimed quarry waste piece from nearby abandoned quarry.

Poured Earth Debris Wall (PEWD) is being used in Plot24.

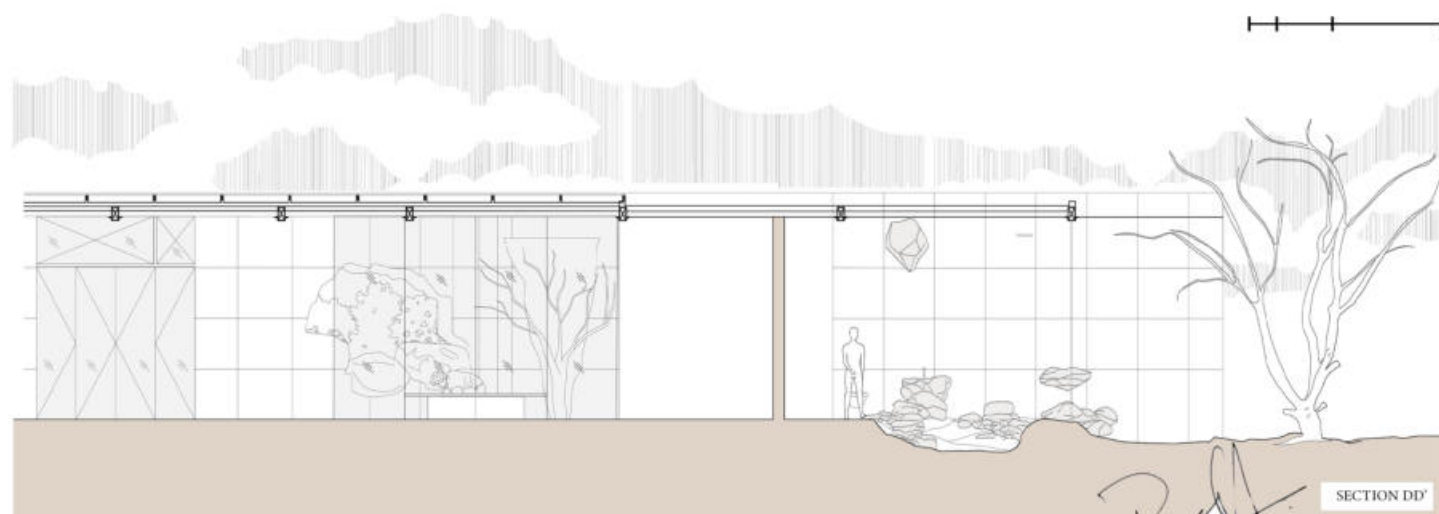
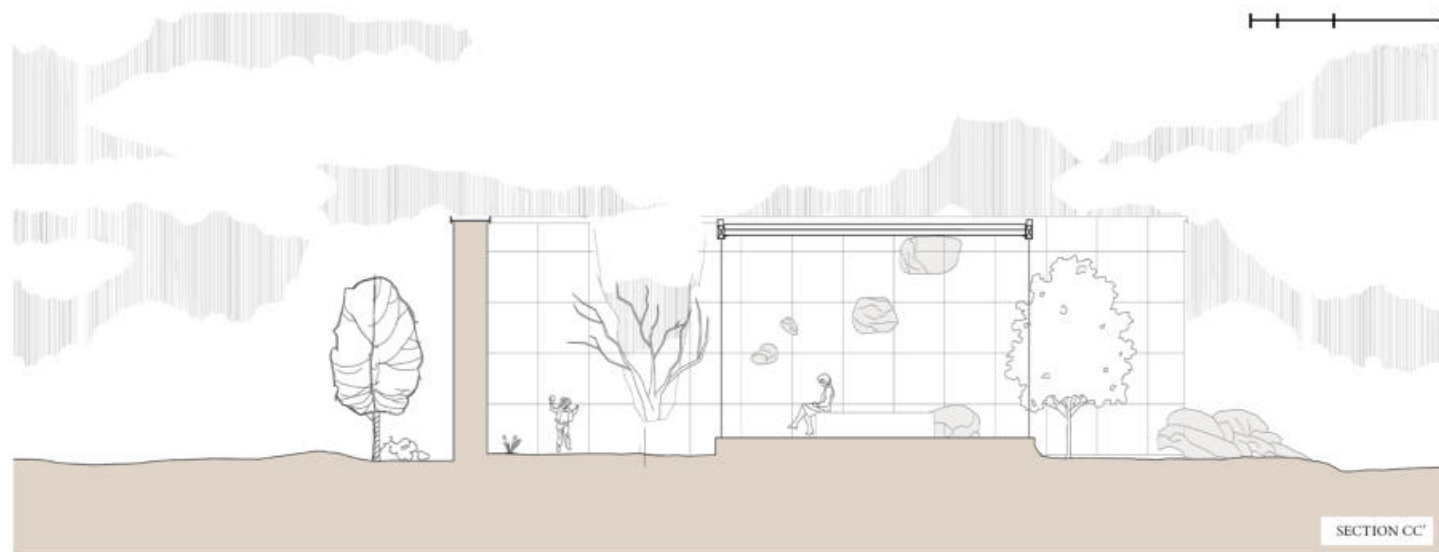
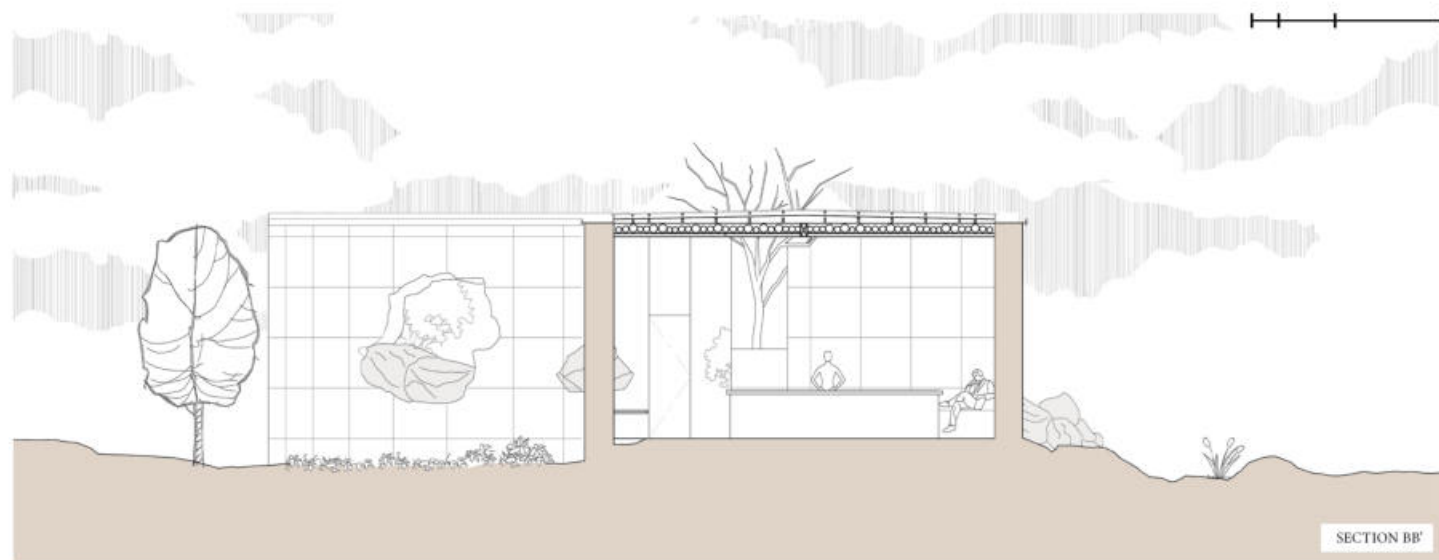
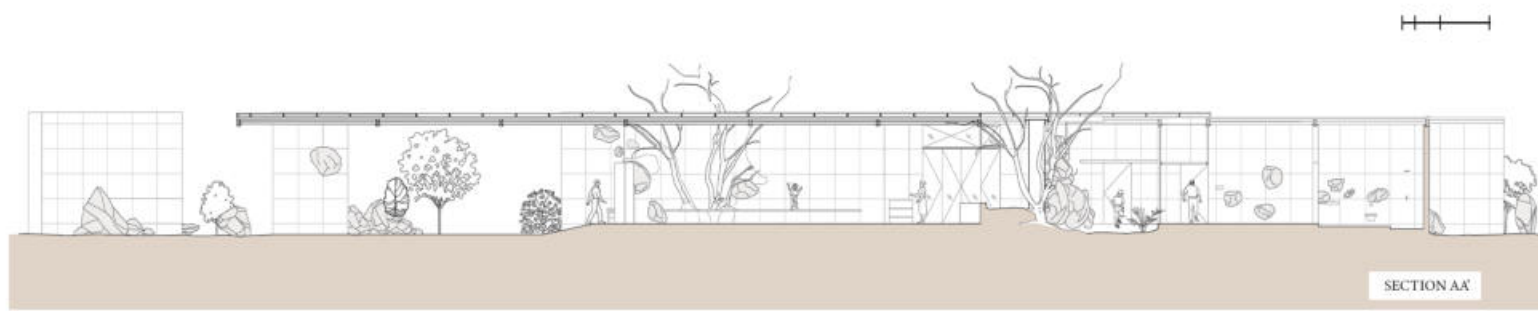
The shutters are made using plywood and steel frame. For 1 bag of cement, 15 bonds of sieved soil, 15 bonds of unseived soil, 15 bonds of M-sand (fine aggregate), 15 bonds of gravel (coarse aggregate) were uniformly mixed.

The design aims in achieving luxury through Space and Volume. Idea of placing a portion of building under the canopy tree in the plot was a necessity. Camouflaged as easily achieved as the site was already in mango grooves.



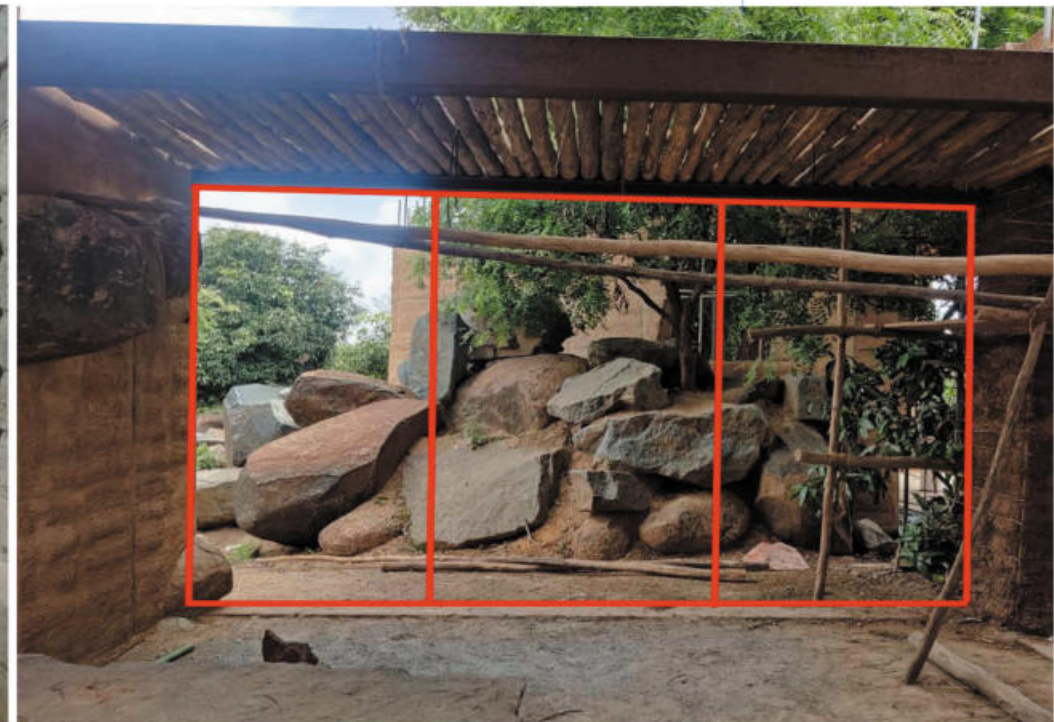
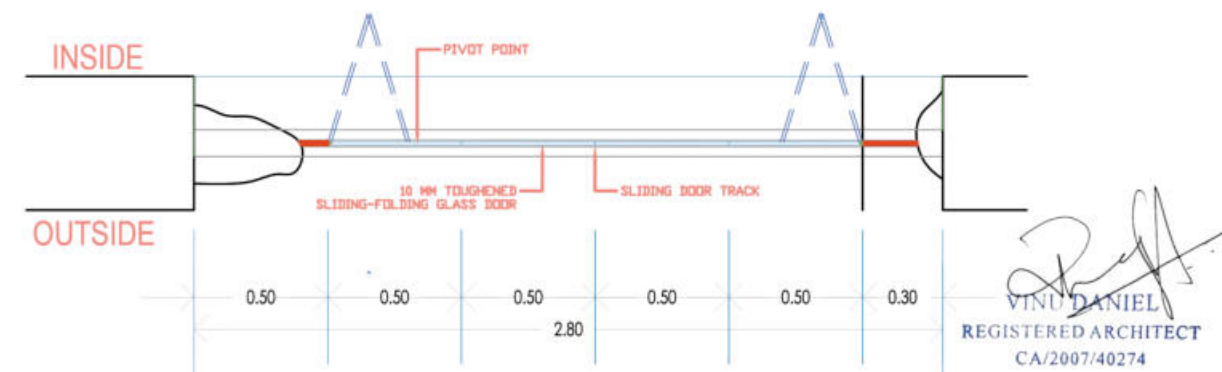
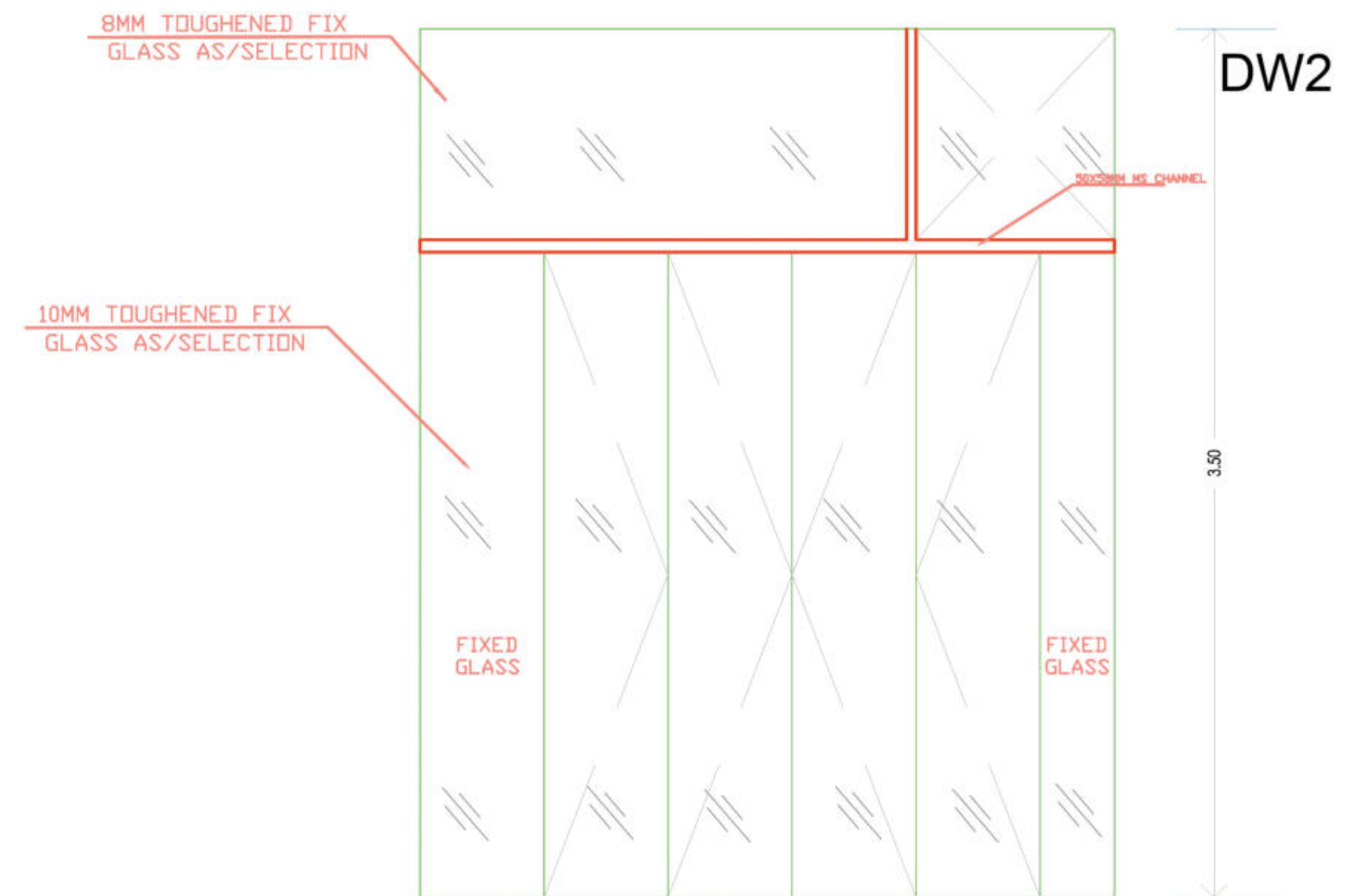
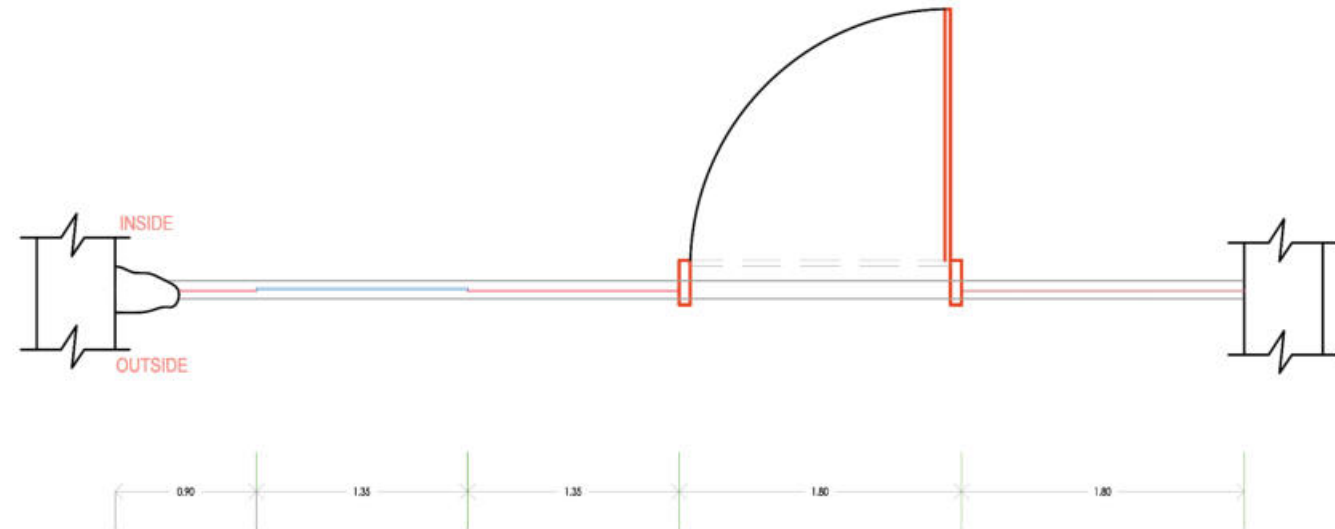
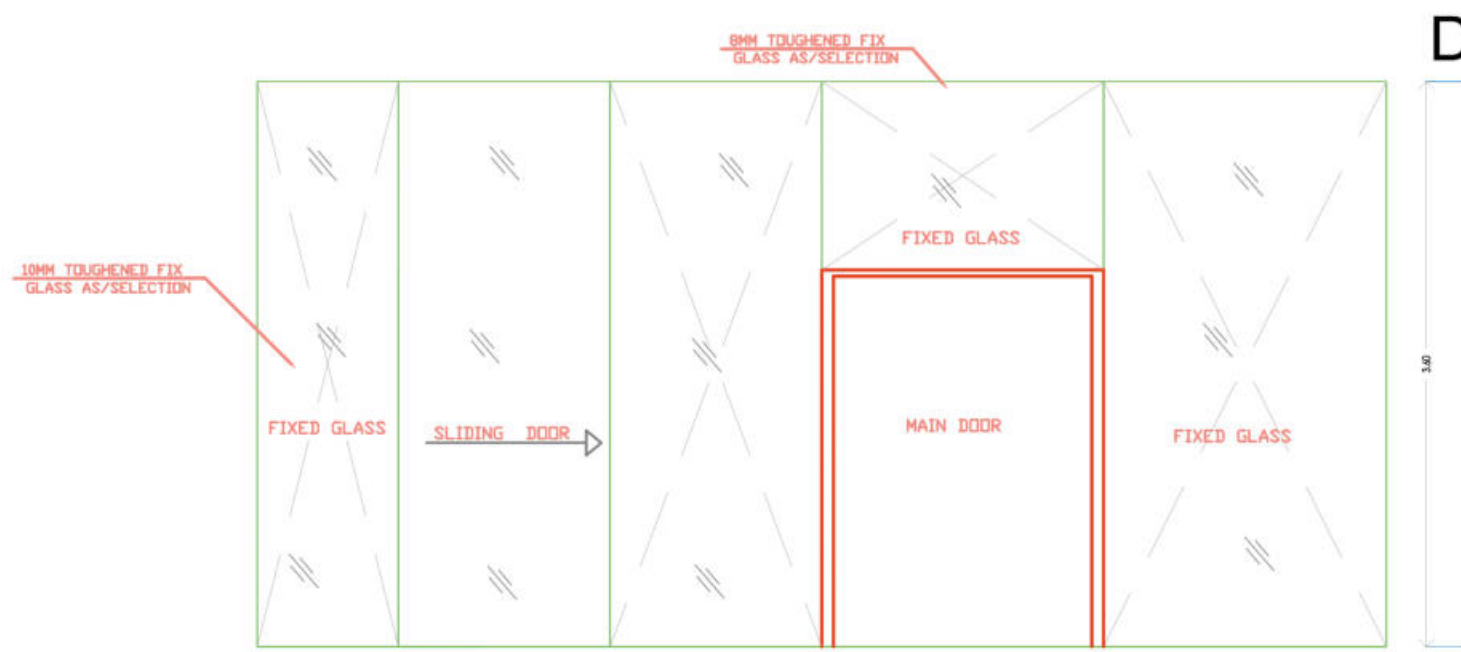


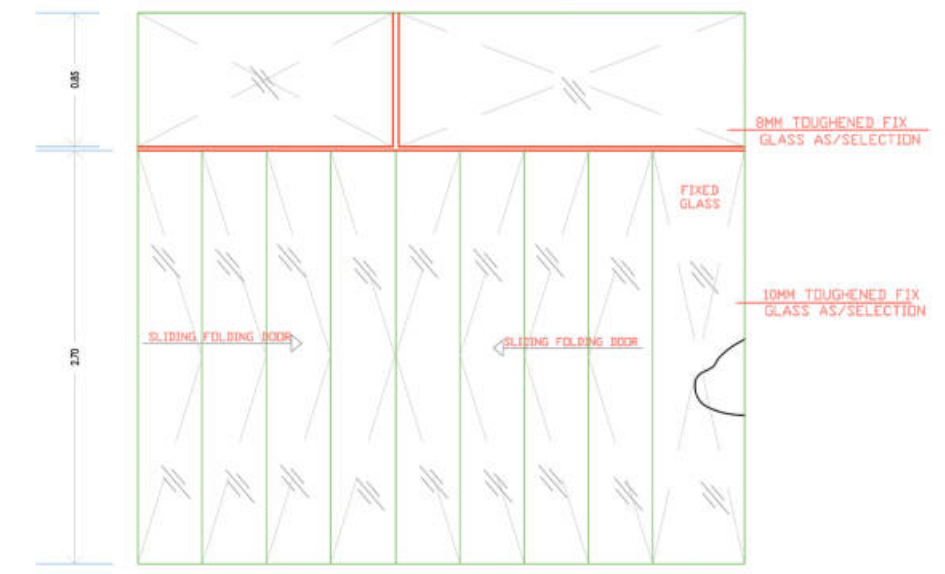
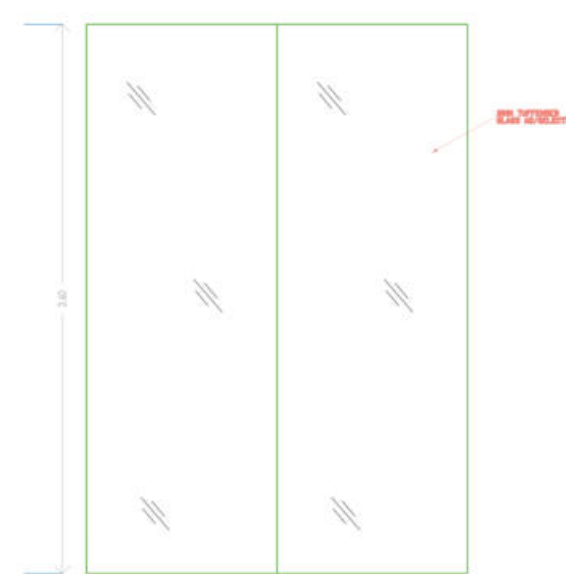
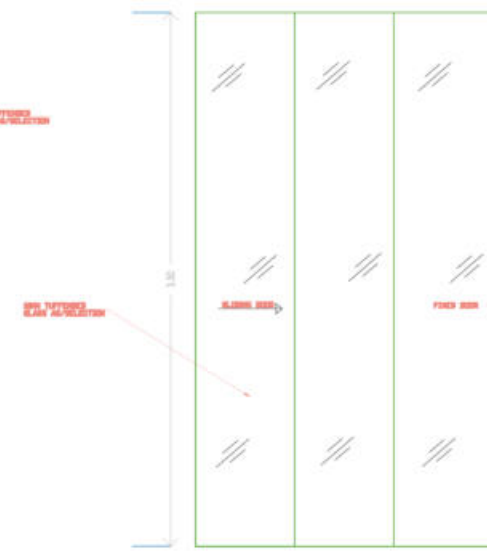
PLOT 24 BASE PLAN



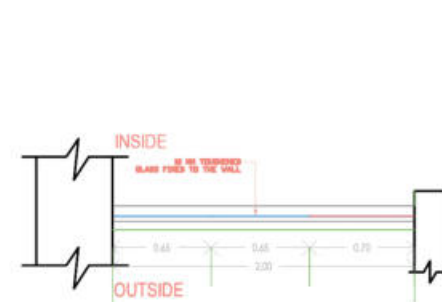
Vinu Daniel
 VINU DANIEL
 REGISTERED ARCHITECT
 CA/2007/40274







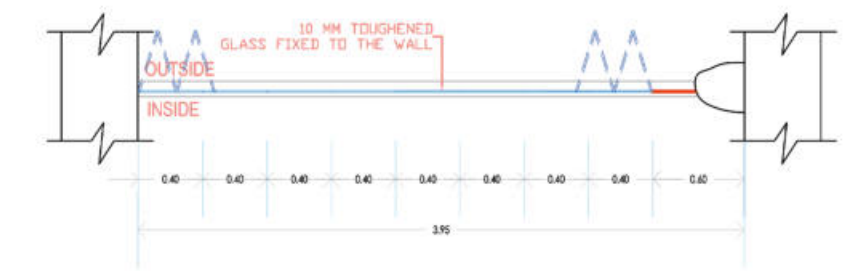
DW3



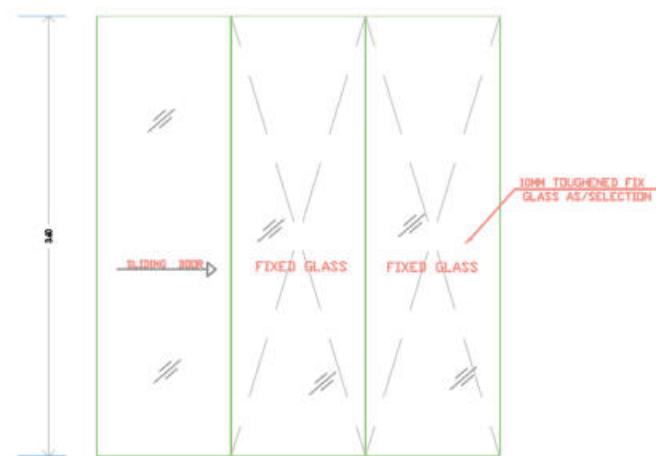
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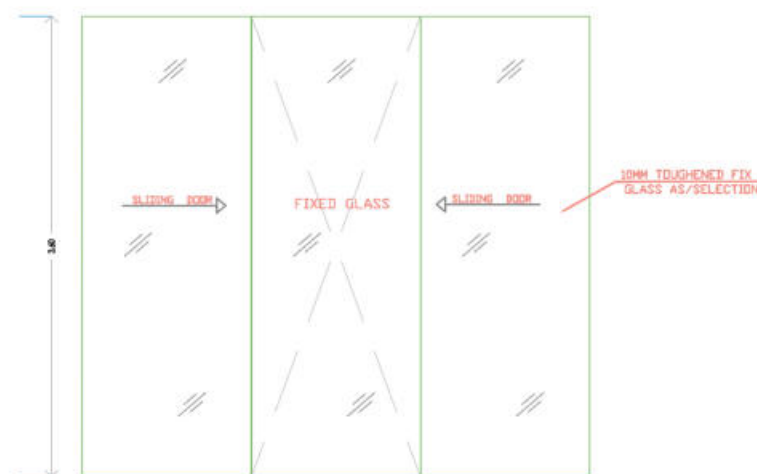
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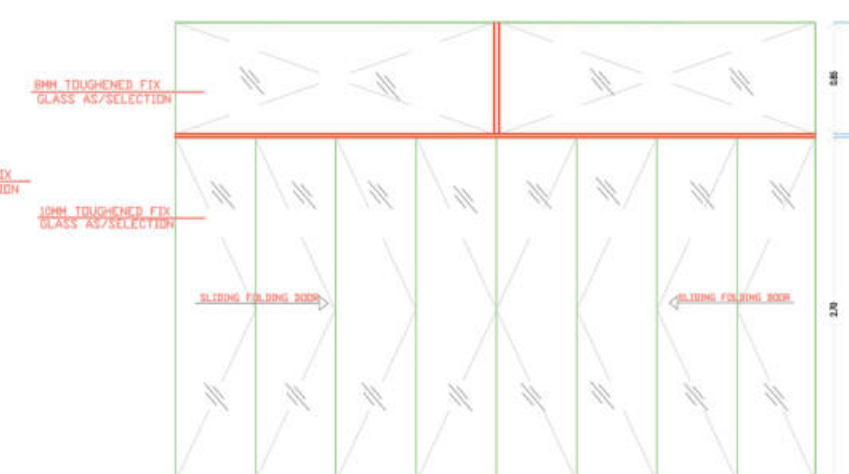
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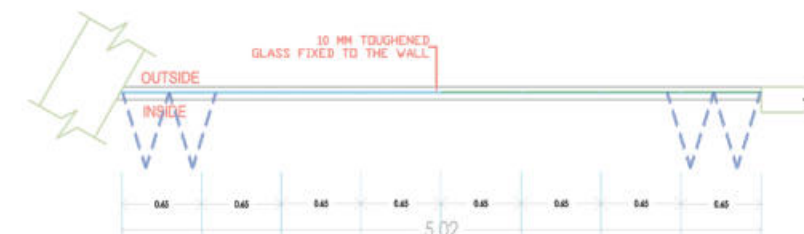
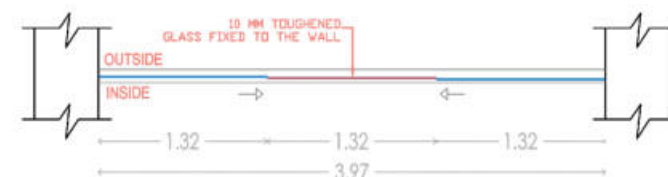
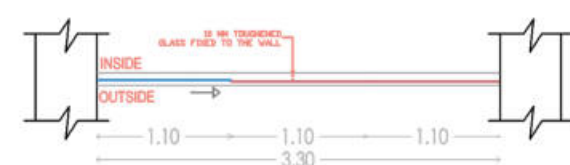
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DW7

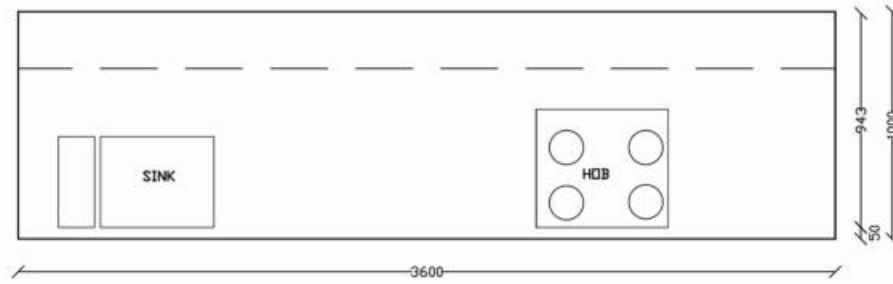


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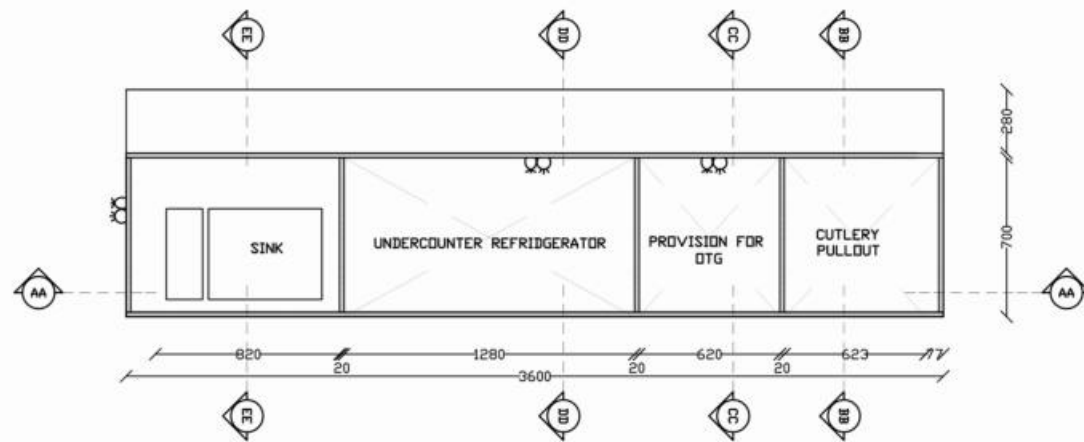


VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

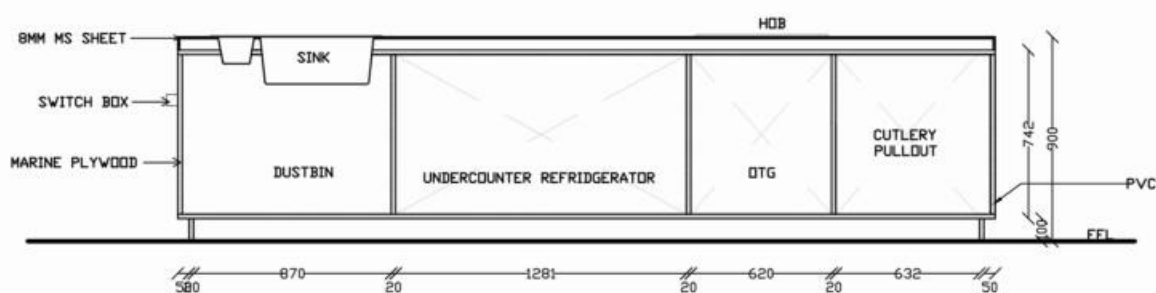
My first week's work was to measure the openings and to make a Elevation drawing of glass doors on site, each drawings were checked by Ar. Fawaz Thengilan



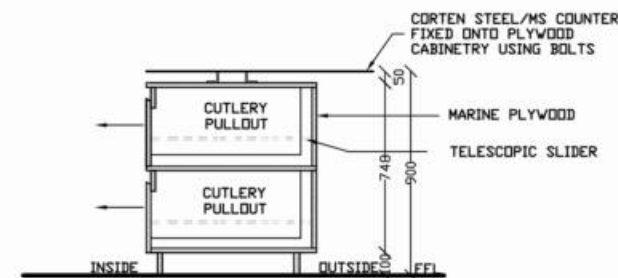
TOP PLAN



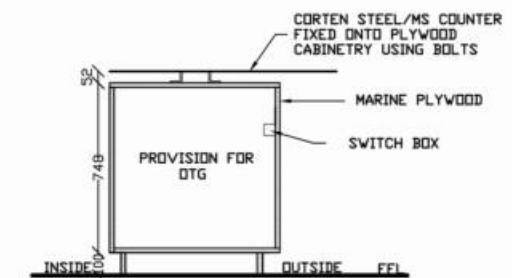
PLAN



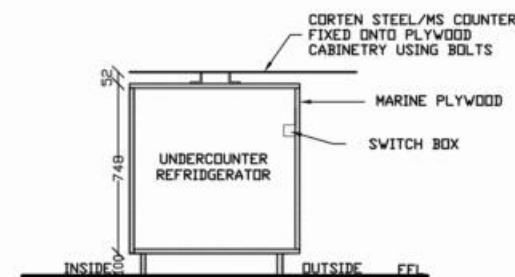
SECTION AA



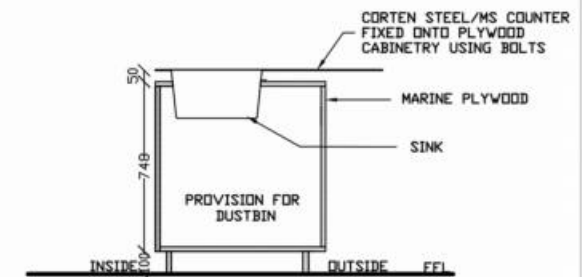
SECTION BB



SECTION CC



SECTION DD



SECTION EE

PLOT 24: ISLAND KITCHEN CABINET

CLIENT

MR. BAIJU

PROJECT NAME

SANCTITY FERME -
PLOT 24

NOTES

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4. ALL LEVELS ARE MEASURED FROM THE UNFINISHED FLOOR LEVEL.
5. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL AND SERVICES DRAWINGS.



DRAWING TITLE

CARPENTRY DRAWING
-Island Kitchen Cabinet

DRAWN BY:

A.KARTHIKEYAN

CHECKED BY:

FAWAZ THENGILAN

SHEET NUMBER:

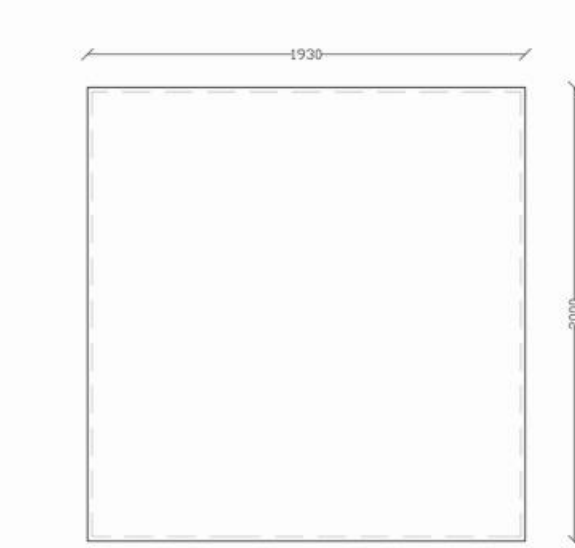
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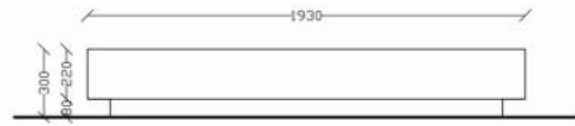
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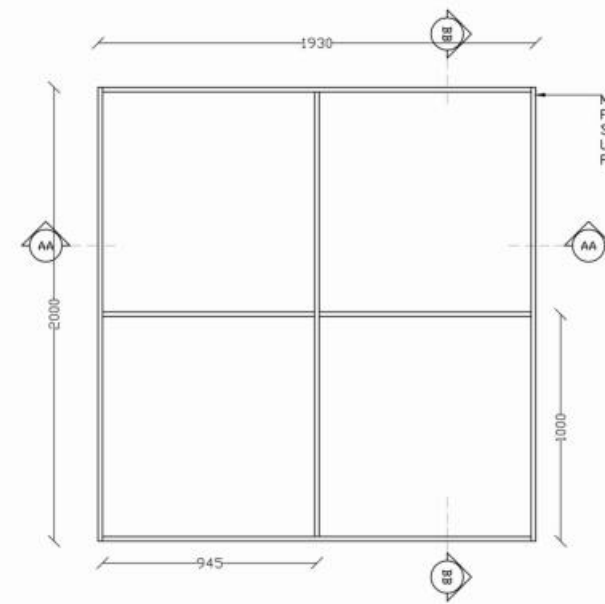
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VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274



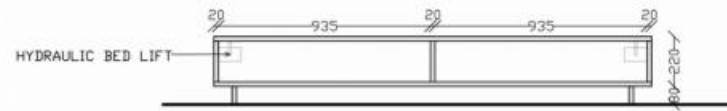
TOP PLAN



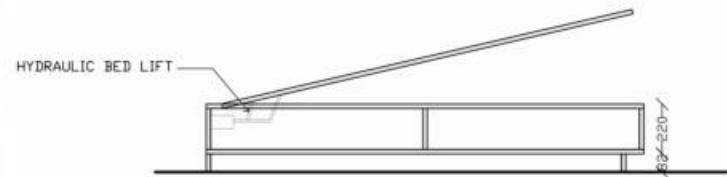
FRONT ELEVATION



INNER PARTITION PLAN

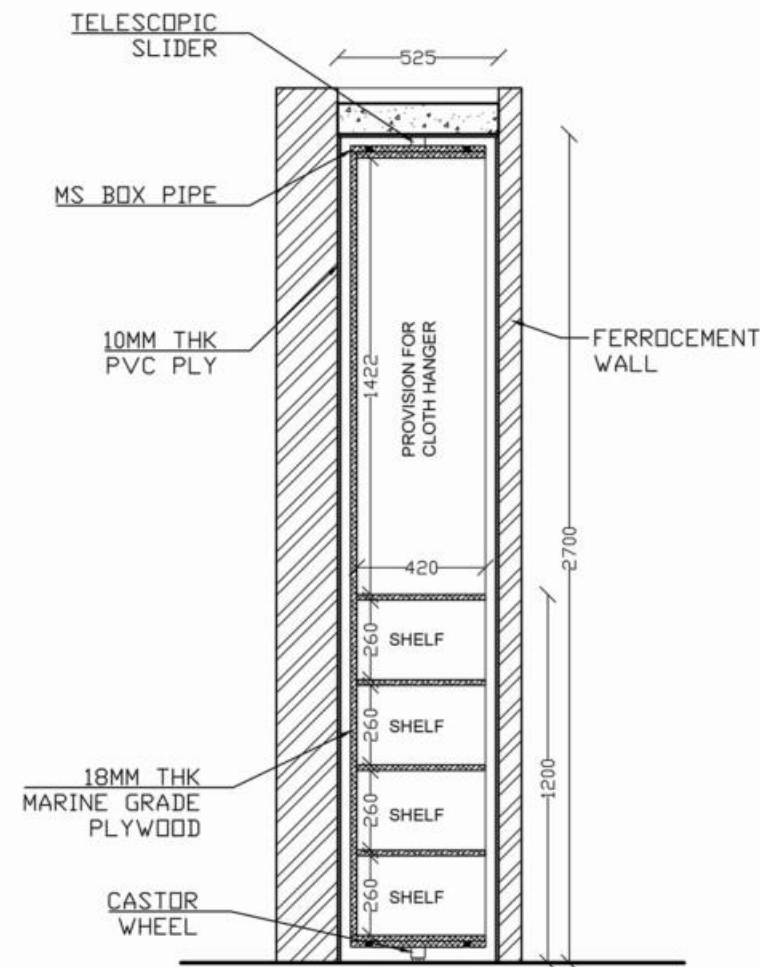


SECTION AA



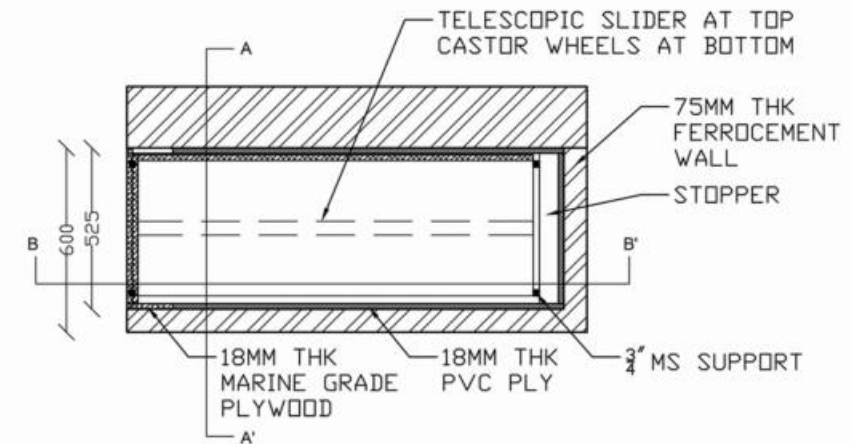
SECTION BB

PLOT 24: REAR BEDROOM BED

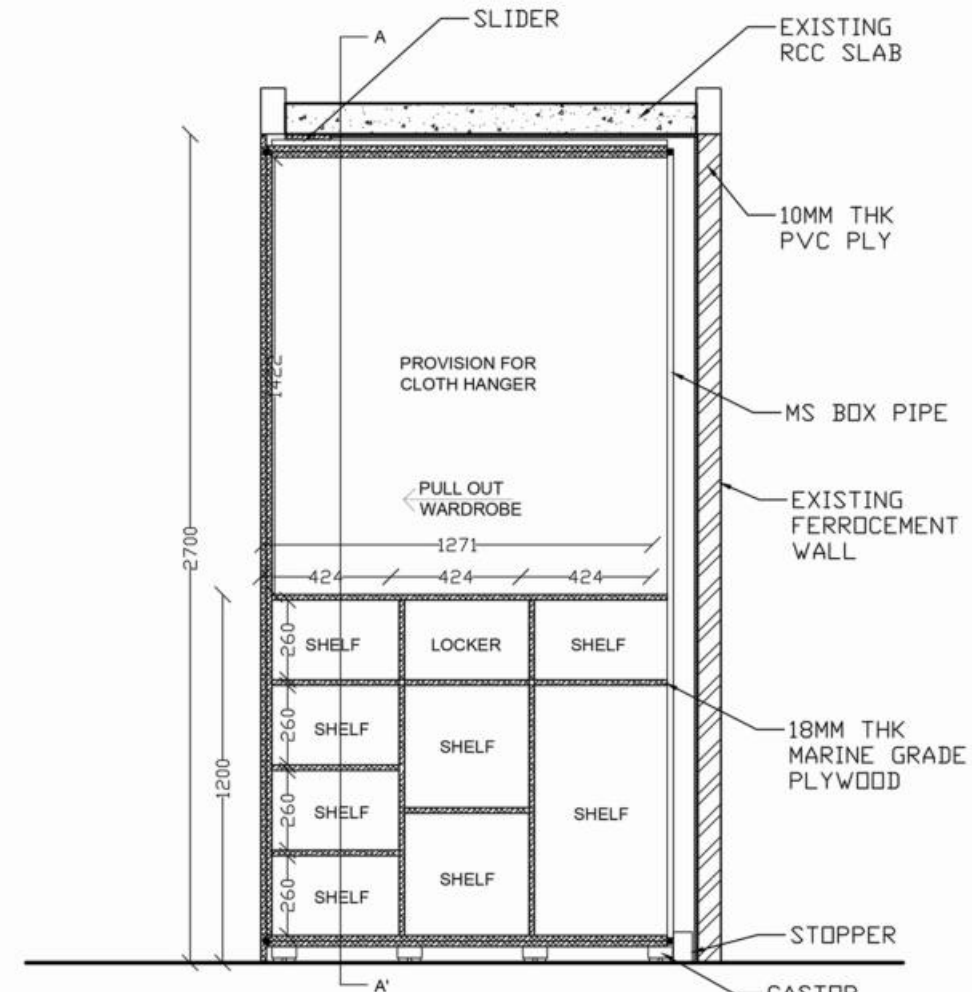


SECTION AA'

PLOT 24: PULLOUT WARDROBE



PLAN



SECTION BB'

CLIENT

MR. BAIJU

PROJECT NAME

SANCTITY FERME -
PLOT 24

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NORTH



DRAWING TITLE

CARPENTRY DRAWING
-Bed and Pullout wardrobe

DRAWN BY:

A.KARTHIKEYAN

CHECKED BY:

FAWAZ THENGILAN

SHEET NUMBER:

02

SCALE:

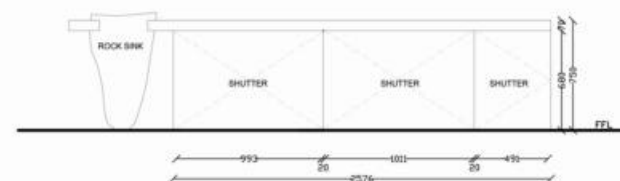
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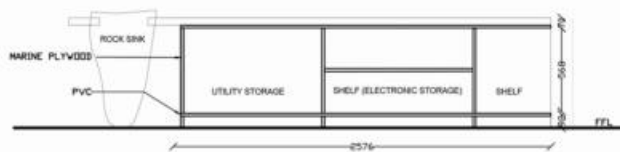
VINOD DANIEL
REGISTERED ARCHITECT
CA/2007/48274



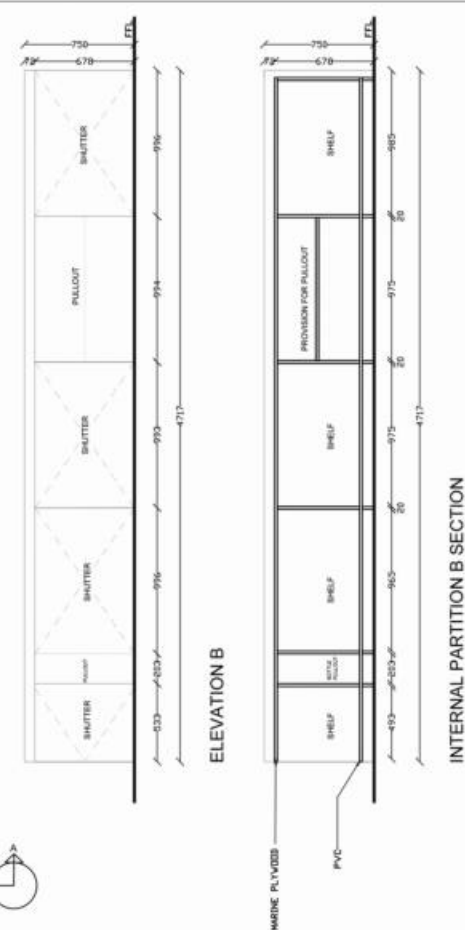
PLAN



ELEVATION A

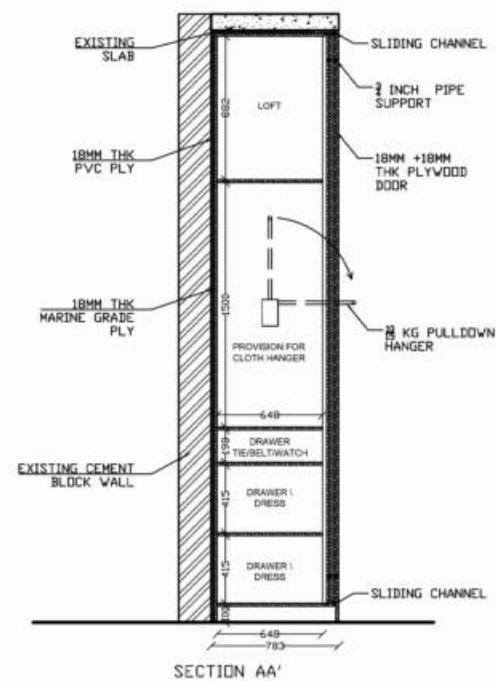


INTERNAL PARTITION A SECTION

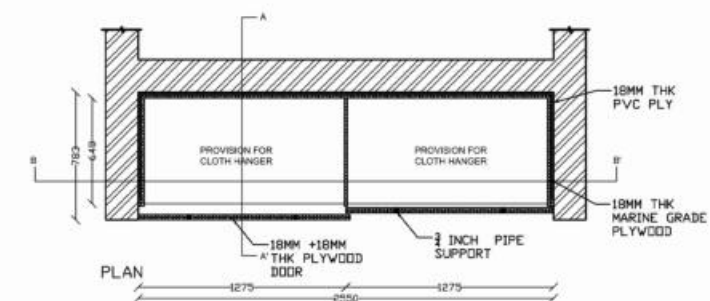


ELEVATION B

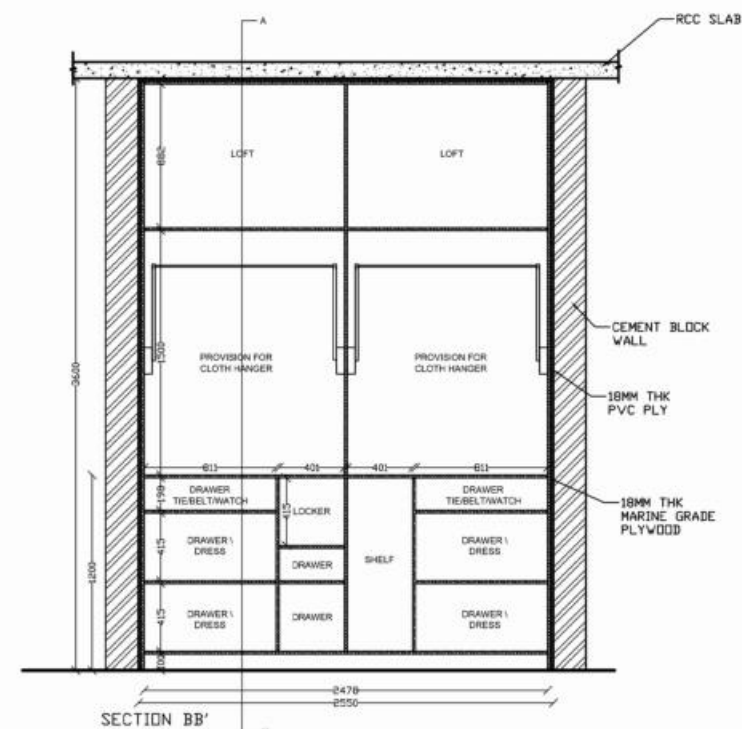
INTERNAL PARTITION B SECTION



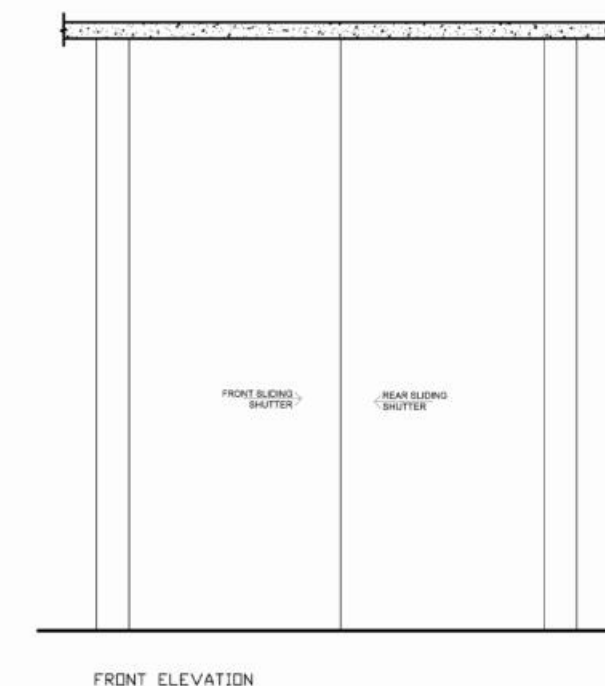
SECTION AA



Elevation view showing the door and window assembly. The door is labeled "DOOR" and the window is labeled "WINDOW". The door has a height of 1275 and a width of 2550. The window has a height of 1275 and a width of 2550. The door is labeled "DOOR" and the window is labeled "WINDOW".



SECTION BB'



FRONT ELEVATION

PLOT 24: KITCHEN COURTYARD CABINET

PLOT 24: WALK-IN WARDROBE

CLIENT

MR. BAIJU

PROJECT NAME

SANCTITY FERME -
PLOT 24

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NORTH



DRAWING TITLE

CARPENTRY DRAWING
-Kitchen Courtyard
Cabinet & Pullout Wardrobe

DRAWN BY:

A.KARTHIKEYAN

CHECKED BY:

FAWAZ THENGILAN

SHEET NUMBER:

SCALE:

03

SIGNATURE:

NTS

SIGNATURE: 
VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274



Public spaces were covered with causerina and private spaces are covered with casurina poles along with RCC.



Layer of jute were laied above the casuarina.



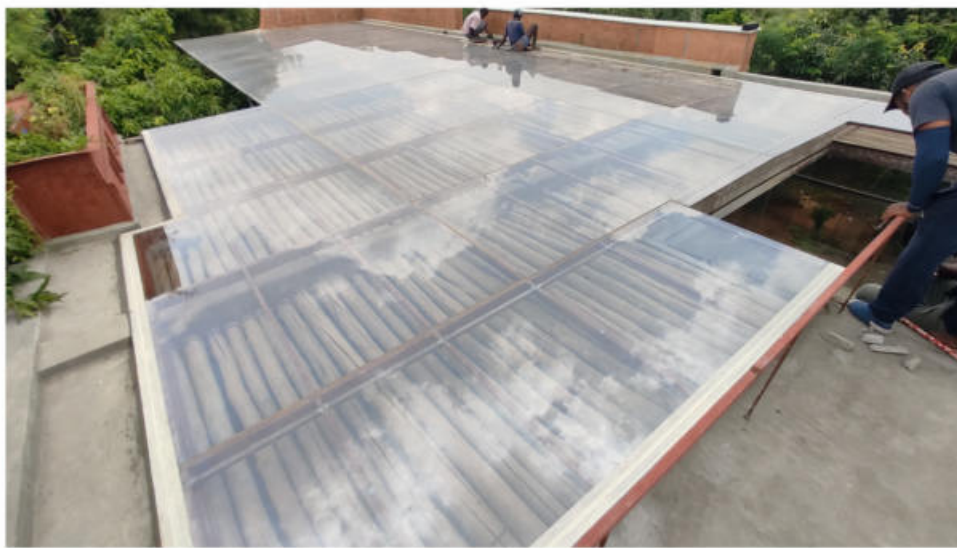
Chicken Mesh were laied above jute.



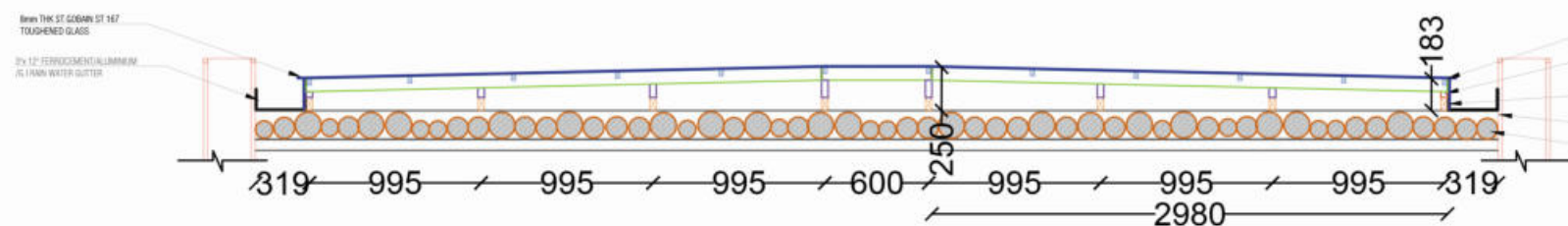
Waterproofin paint coating were applied to the poured earth wall surface.



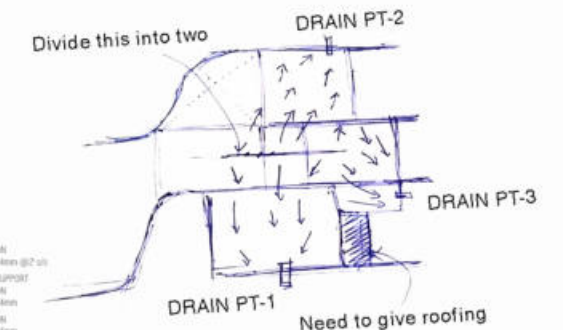
Waterproofin paint coating were applied to the poured earth wall surface.



Above casurina toughned glass is laied.



Me and Nikhil measured the maximum height of roofing, to give a minimum height for glass roofing @ 25cm from the RCC, using sprit lvl and tube lvl we found the slope of roof. The main task is to come up with the Gutterpoints for the rain water to drain.



ROOF SECTION
1.5x1.5x1.5mm (102' x102' x102')
VERTICAL SUPPORT
ROOF SECTION
1.5x1.5x1.5mm
ROOF SECTION
1.5x1.5x1.5mm
EXISTING BEAM
CASUARINA POLES

VINU DANIEL
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CA/2007/40274

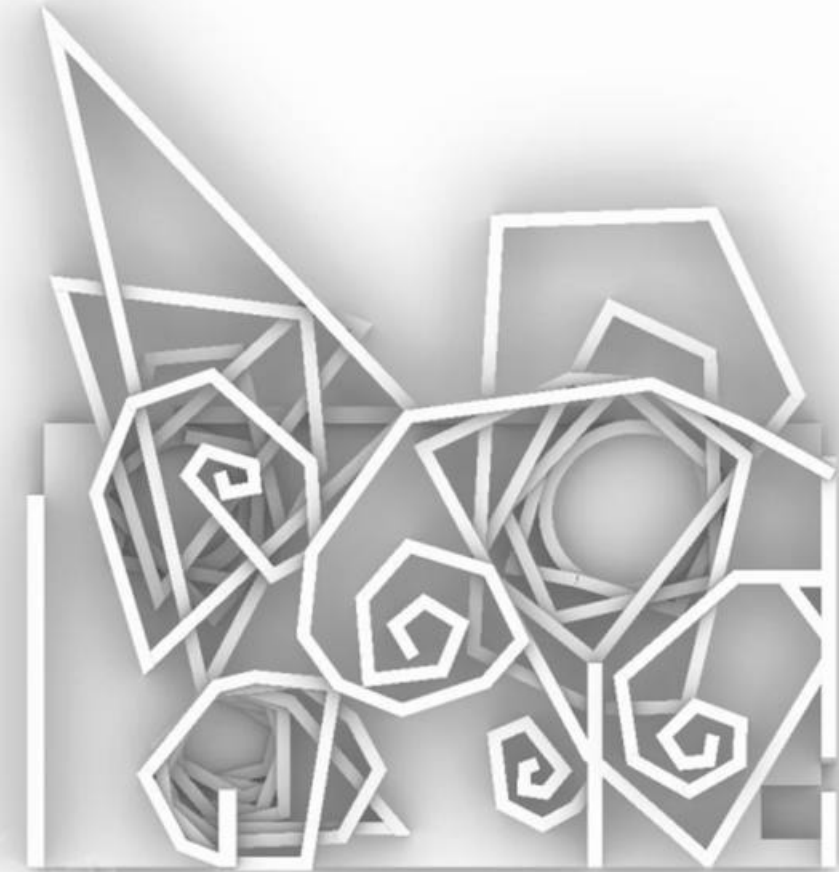
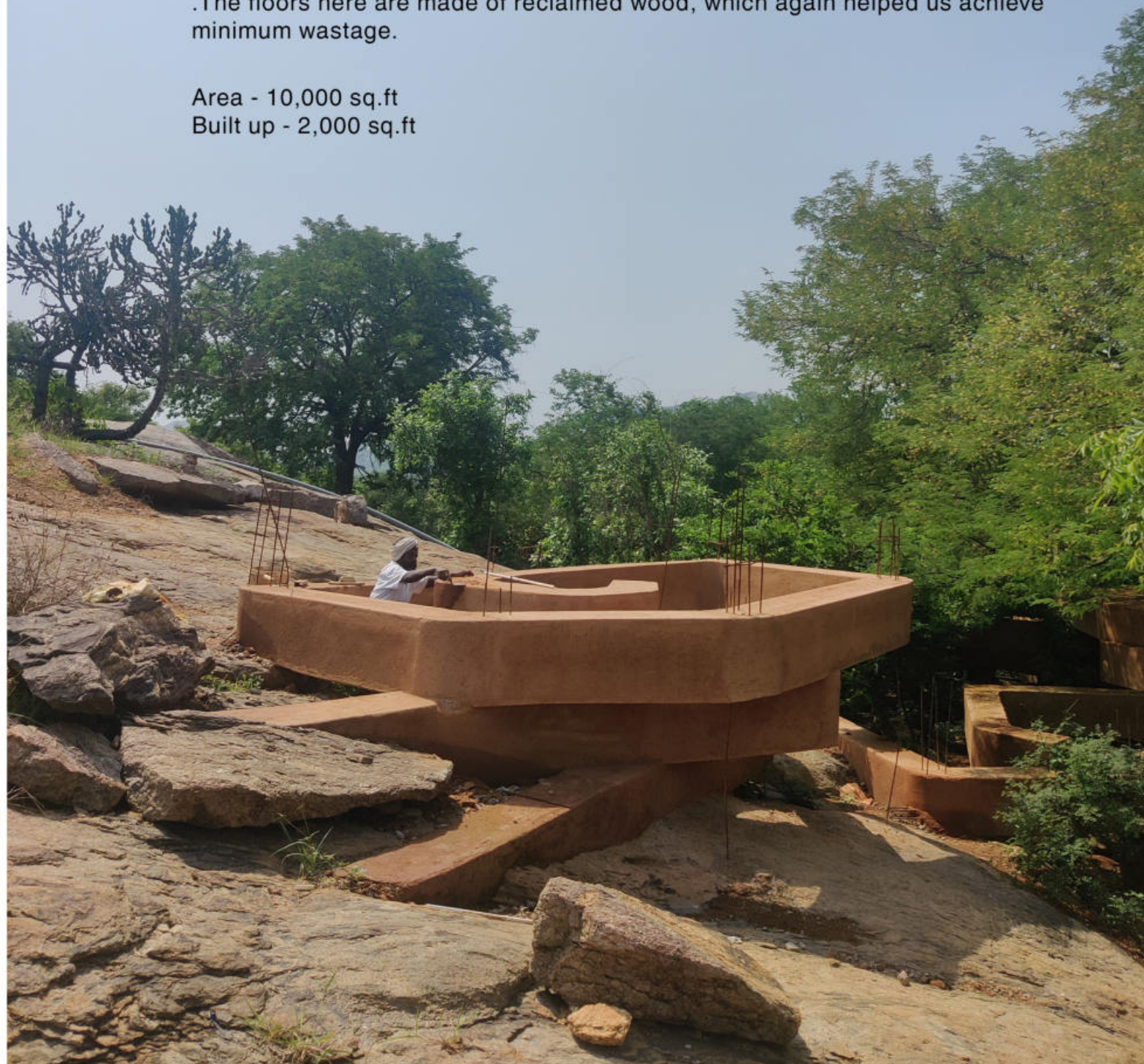
CHUZHI

Chuzhi is a 2BHK typology residence built around two large tamarind trees in a sloping terrain of the Sanctity Ferme. The roof acts as a common amphitheatre around the trees for the community that will form when this typology repeats in the adjacent plots.

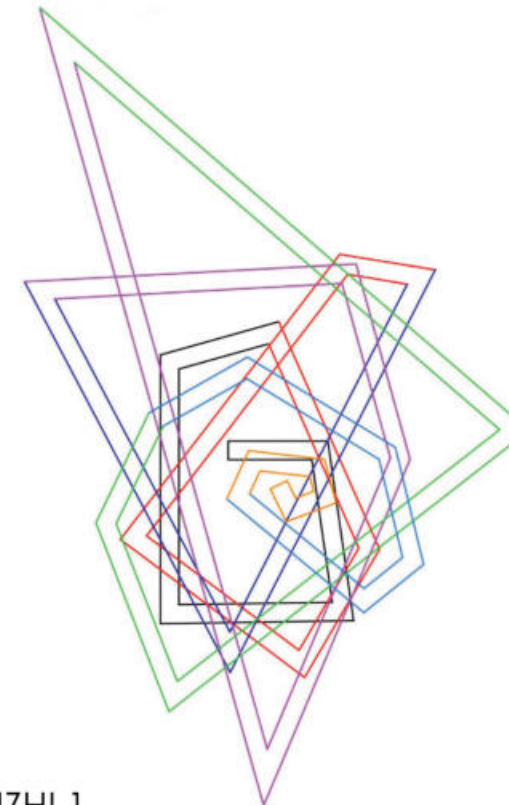
The roof also directs water to the tamarind trees during rain. The structure uses the poured earth technique for the walls and bottle concrete (4000 pet bottles) & poured earth for the chuzhi beams.

.The floors here are made of reclaimed wood, which again helped us achieve minimum wastage.

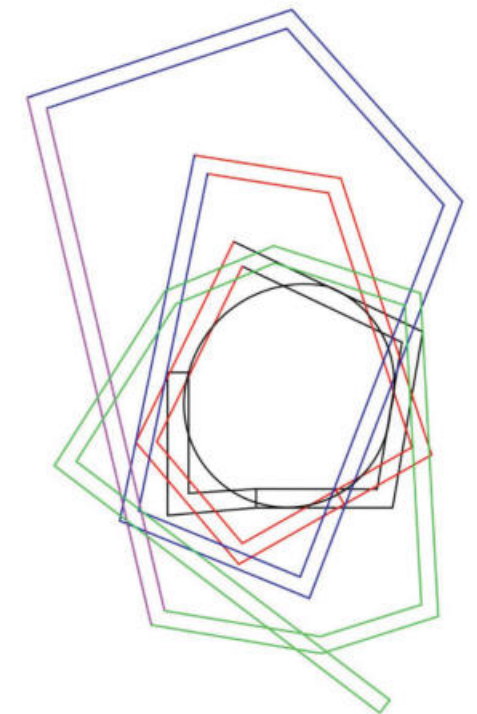
Area - 10,000 sq.ft
Built up - 2,000 sq.ft



FINAL PLAN



CHUZHI 1



CHUZHI 2

A PERFECT SUBTERRANIAN HOME

Chuzhi, as the name suggests, stands tall yet hidden as mighty swirls in nature. It is made to blend in with nature without hindering the natural beauty of its surrounding. The house as such is kept hidden in a picturesque location to give it the privacy it deserves. The camouflage construction technique helps in retaining the charm of the beautiful area around it.



LIVING AMONG AND ALONG TREES

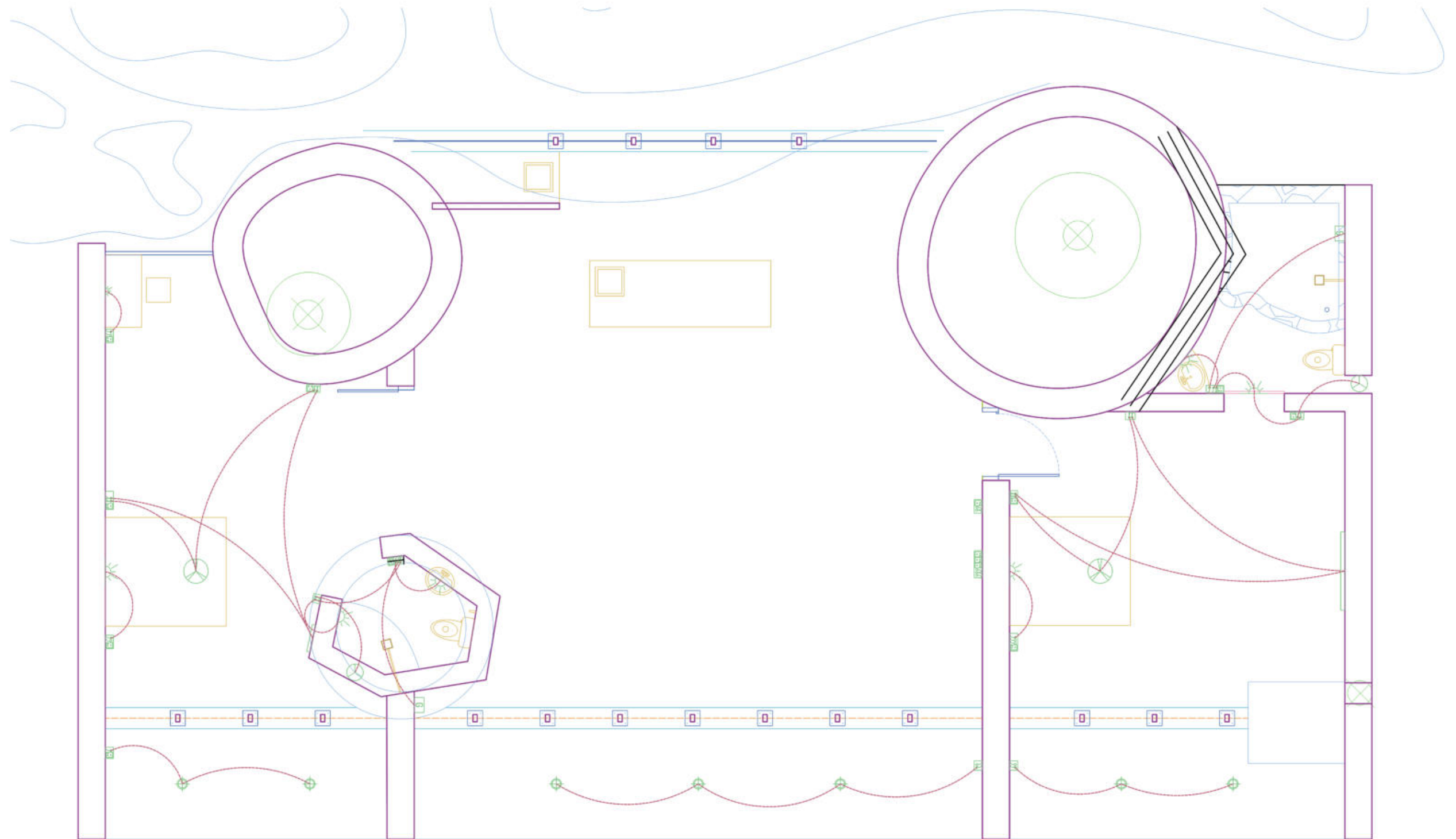
The swirls at Chuzhi start as walls and spiral all the way up to form its roof. Perched among huge and mighty trees, it gives you the ambience of a tree. Here, it feels like living in the womb of a tree. Although the house has no elevation, it properly defines the public space from the private space.



SITE SUPERVISOR

In Chuzhi, I have worked in Roof frame fabrication stage from initial to final. All the frameworks drawings were been explained to welder Jaishankar and I update to my senior Architect Neeraj. I have also been supervising in electrical works.

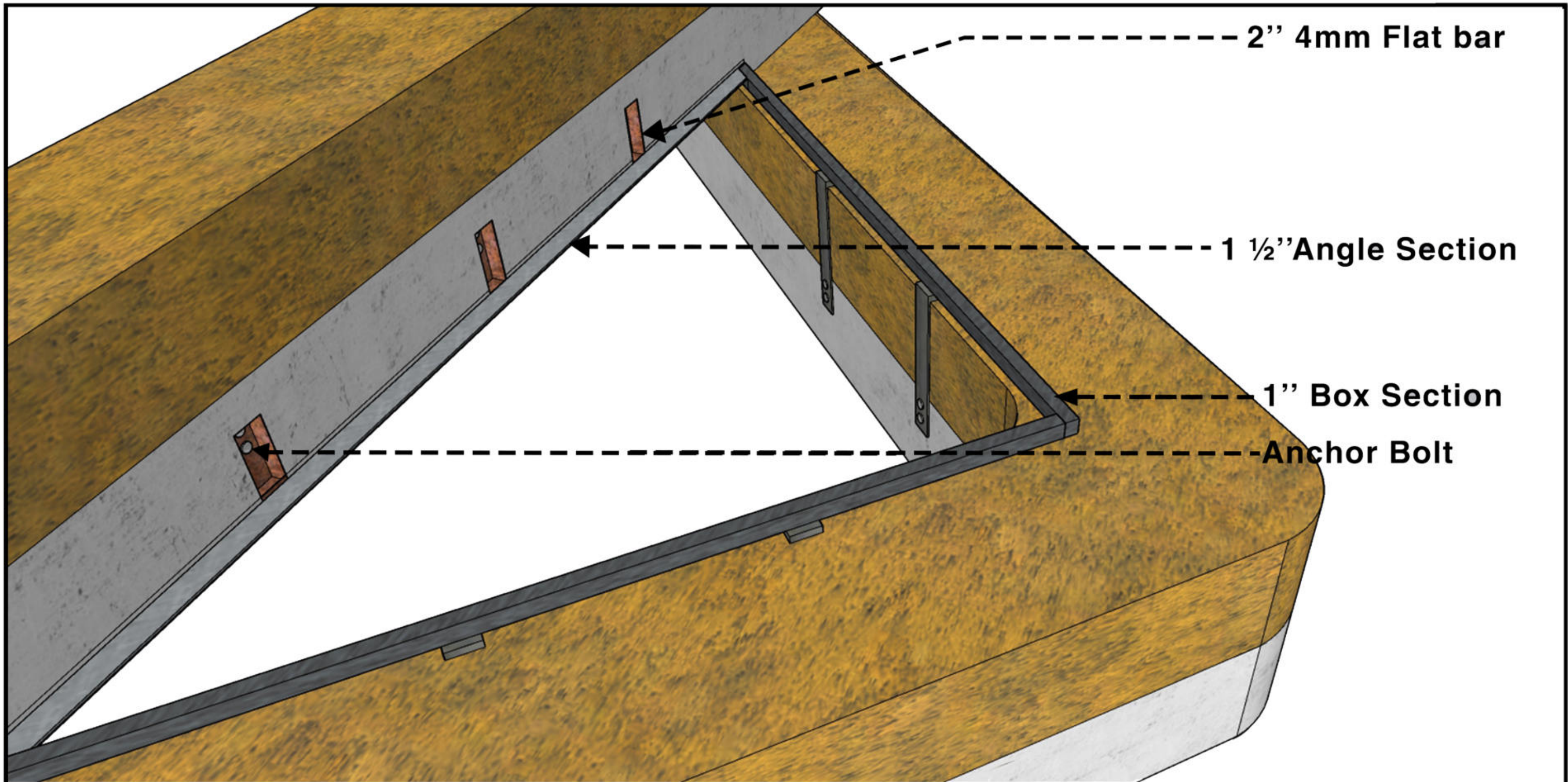
-  Geyser
-  Telephone
-  Calling Bell
-  15 Amp plug
-  5 Amp plug
-  One way switch
-  WALL WASHER
-  CEILING MOUNTED LIGHT
-  WALL MOUNTED LIGHT
-  Foot lamp
-  Spot lamp
-  Wall mounted fan
-  Wall mounted light
-  EM Electric Meter
-  Tube Light
-  Tube Light
-  Tube Light
-  Tube Light
-  Exhaust fan

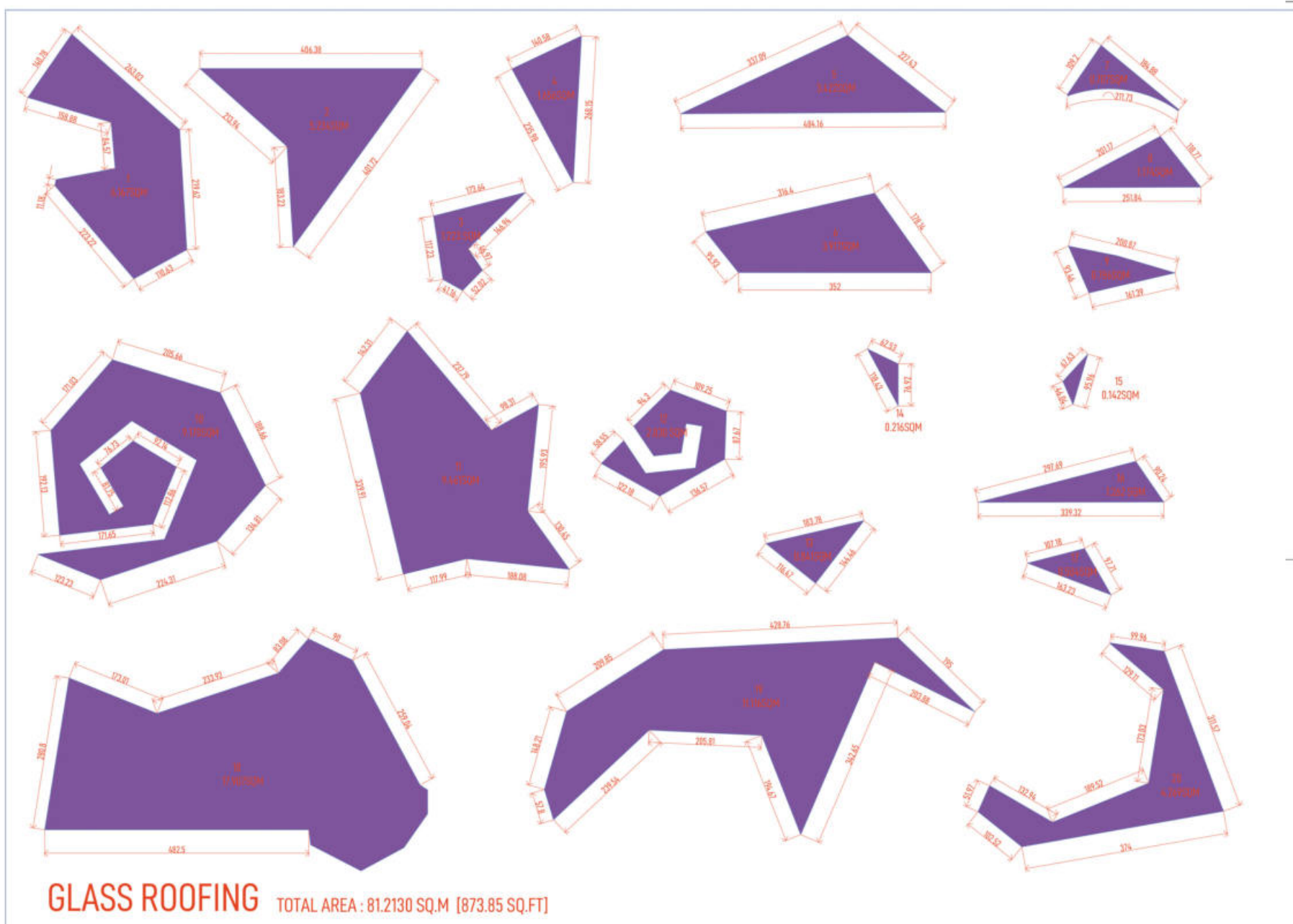


ELECTRICAL PLAN

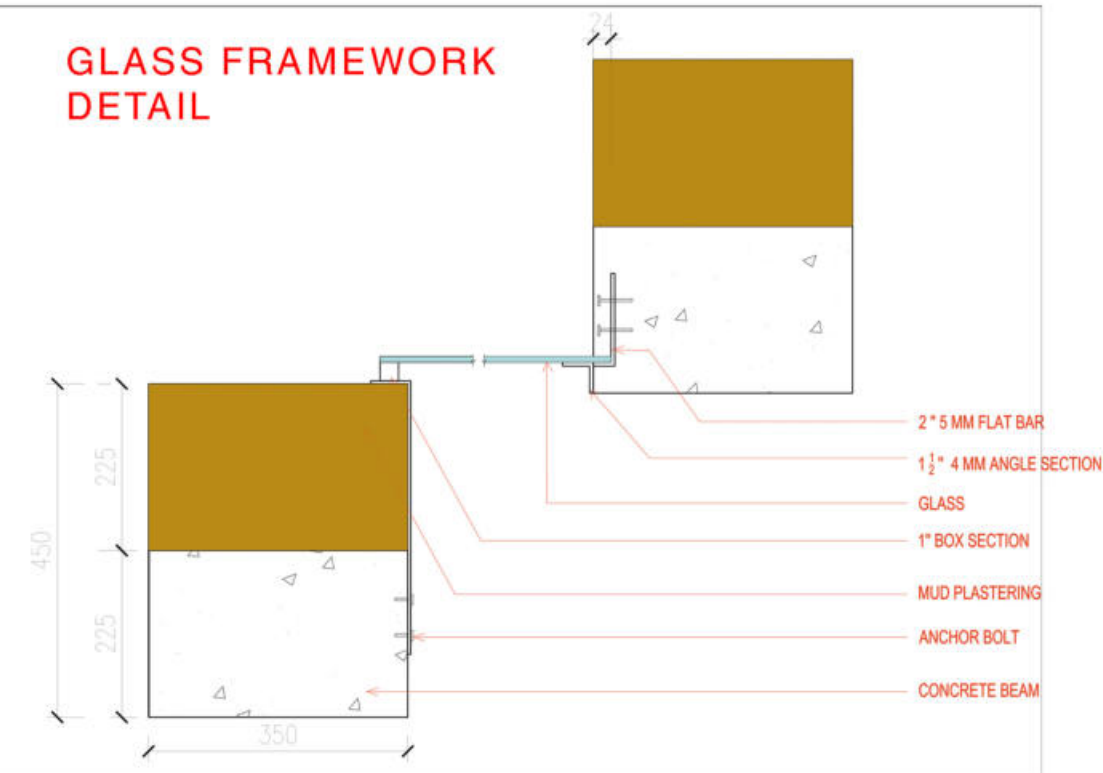


Vinu Daniel
 VINU DANIEL
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 CA/2007/40274

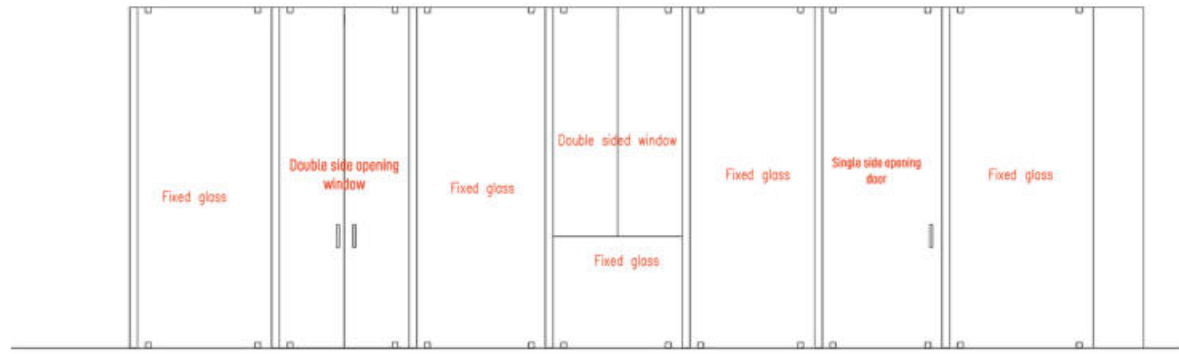




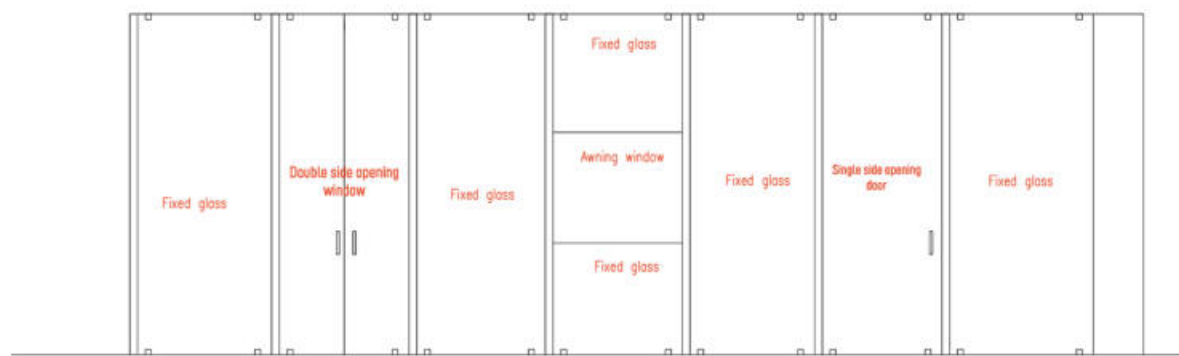
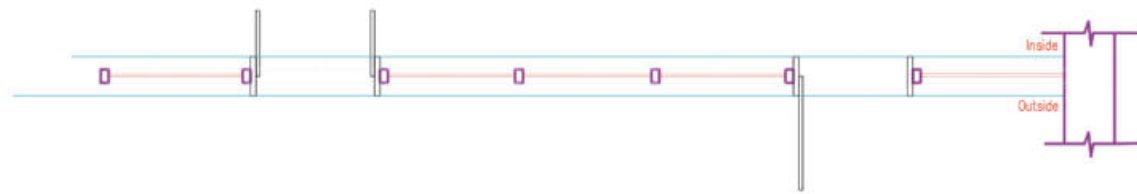
GLASS FRAMEWORK DETAIL



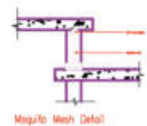
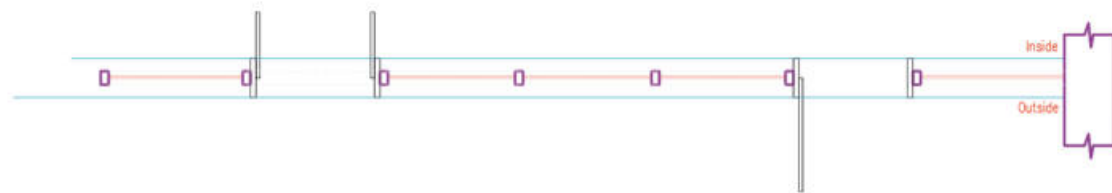
SITE PHOTOS- Glass Framework Fabrication



FRONT GLASS DOOR ELEVATION - OPTION 1



FRONT GLASS DOOR ELEVATION - OPTION 2



Mosquito Mesh Detail


VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274



A-FRAME

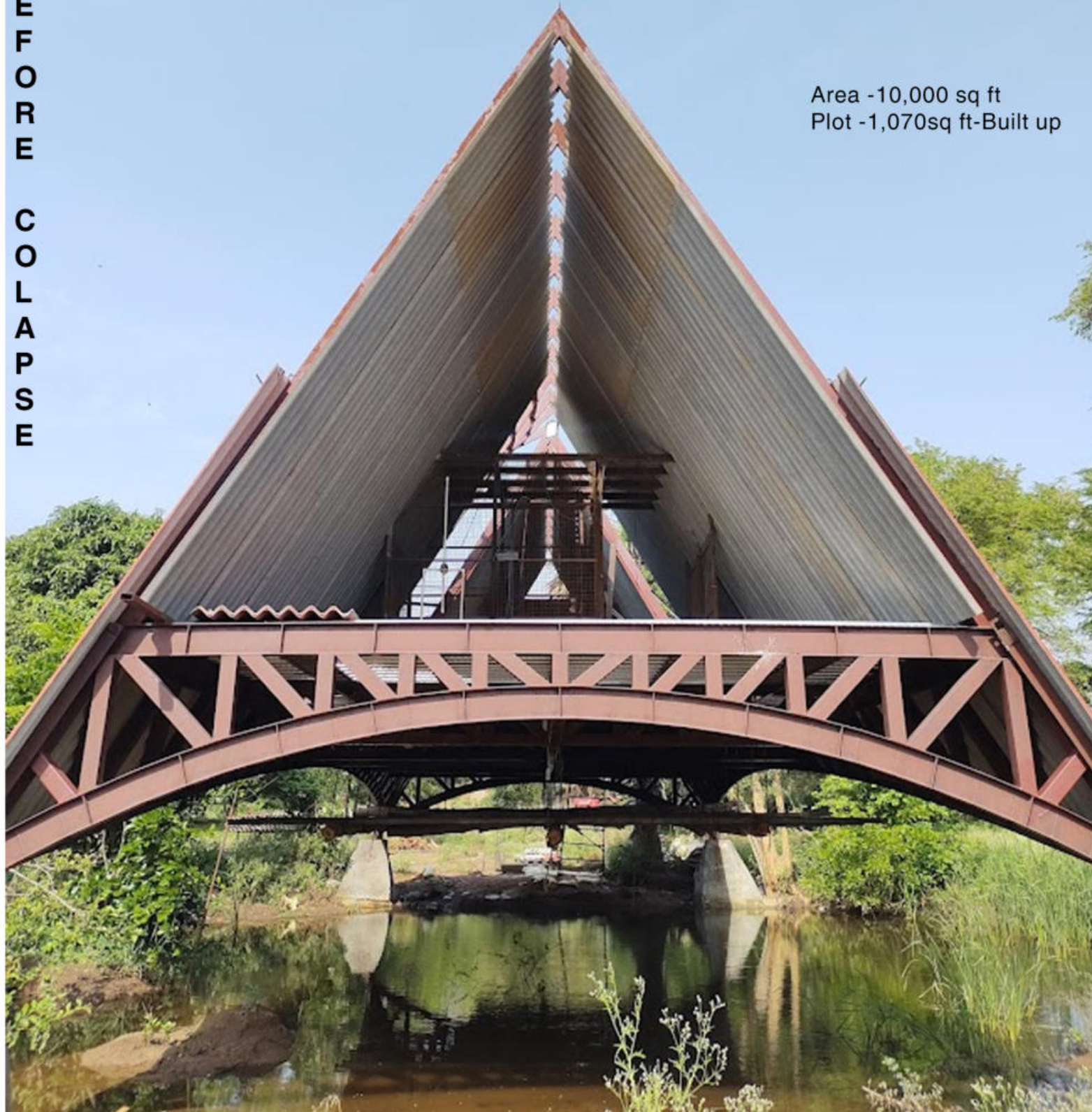
A-frame is 2bhk residential project aimed to be cost-effective and fast construction building. The name "A-frame" itself gives away the form of the building, which also ensure reduction in material usage.

The motive was to not disturb the existing landscape in any way and that about the Non-linear structure that hovers over an existing pond on the site. It's a 19m long bridge without any columns touching the ground and standing only on four footings at the corners.

Area -10,000 sq ft
Plot -1,070sq ft-Built up

B
E
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E



Vinu Daniel
VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

SITE PHOTOS



Structure opening for entrance



Partition wall plastering



Partition wall welding and pond opening view.

A-FRAME

Due to the over loading the structure got collapsed, so the I-beam in the centre is been locked by introducing a foundation. Also the four foundation is locked with metal belt.

Spacewise two levels were created between livingroom and bedrooms.

Area -10,000 sq ft
Plot -1,220sq ft-Built up

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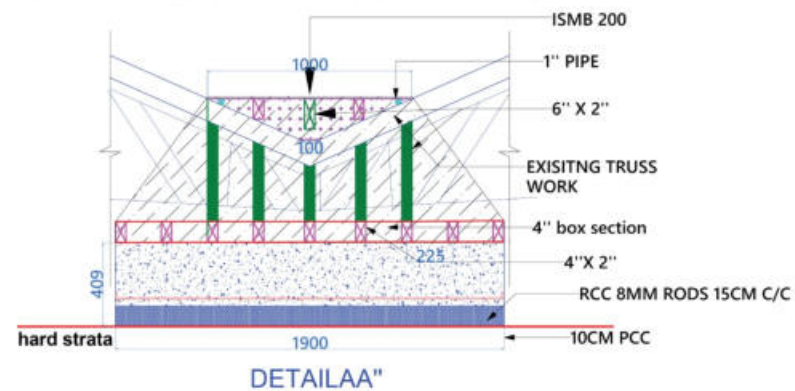
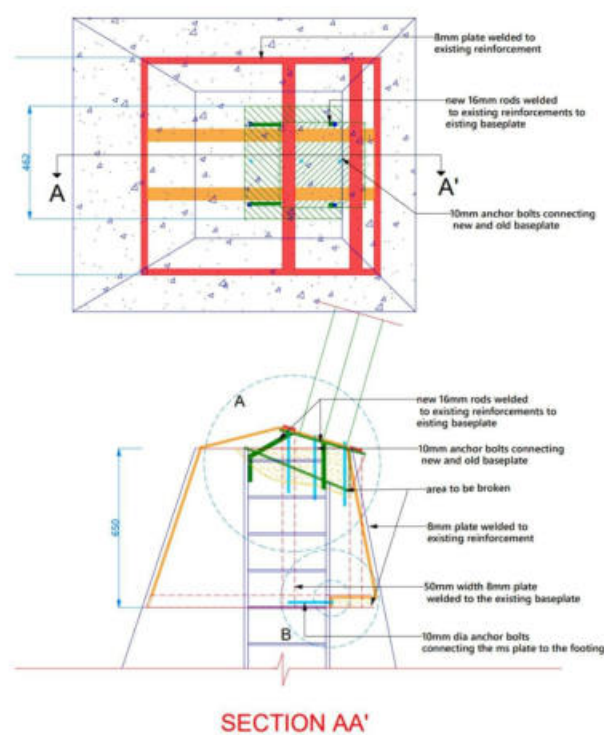
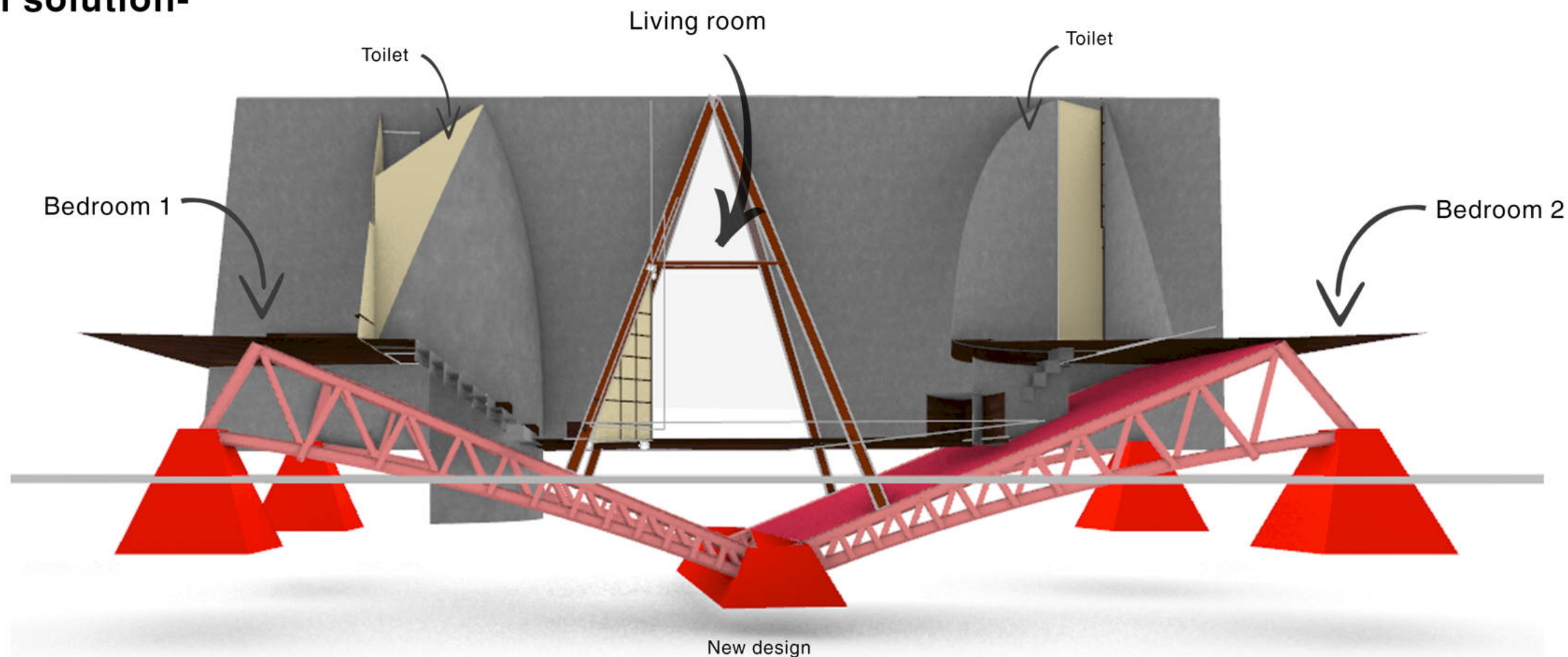


SITE SUPERVISOR

In A-Frame I have been working from Box section fabrication till steps work. I explain all the drawings to Pondy masons and Welders which is monitored by my senior Architect Rajesh and checked by Ar. Vinu. As a site incharge I have assigned to make note of the materials and attendance of all the workers.


VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

Design solution-



Center foundation construction process

1st week supervision



Foundation belt lock



Vertical 6"x2" Box section supports installation.



Horizontal 4"x2" Box section supports installation along with wooden reapers.



I- Beam structure extension



CHALLENGES IN-SITE

While installing 6"x2" Box section above the extended I-Beam there were misalignment.

The moment we follow the inside I-Beam to get the structure with proper "A", the 6"x 2" behind were not following the straight line.

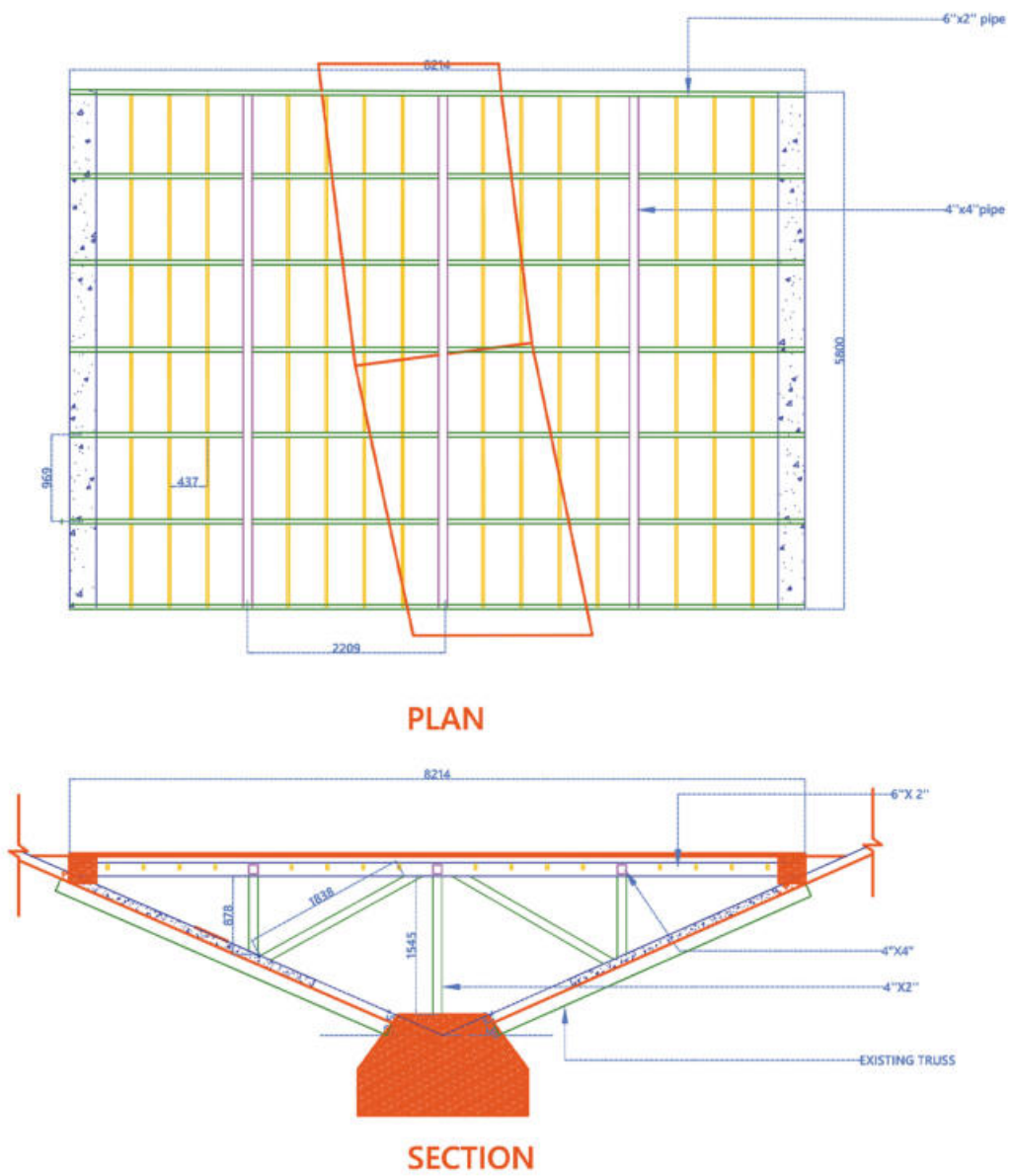
Then I discussed with my senior architect and sorted by expanding the base I-beam above the footing.


VINU DANIEL
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Livingroom Slab



Box section were welded and chicken mesh is laied and tied using binding wires by masons.



MIX RATIO FOR SLAB



1- Cement



1.5- M-sand

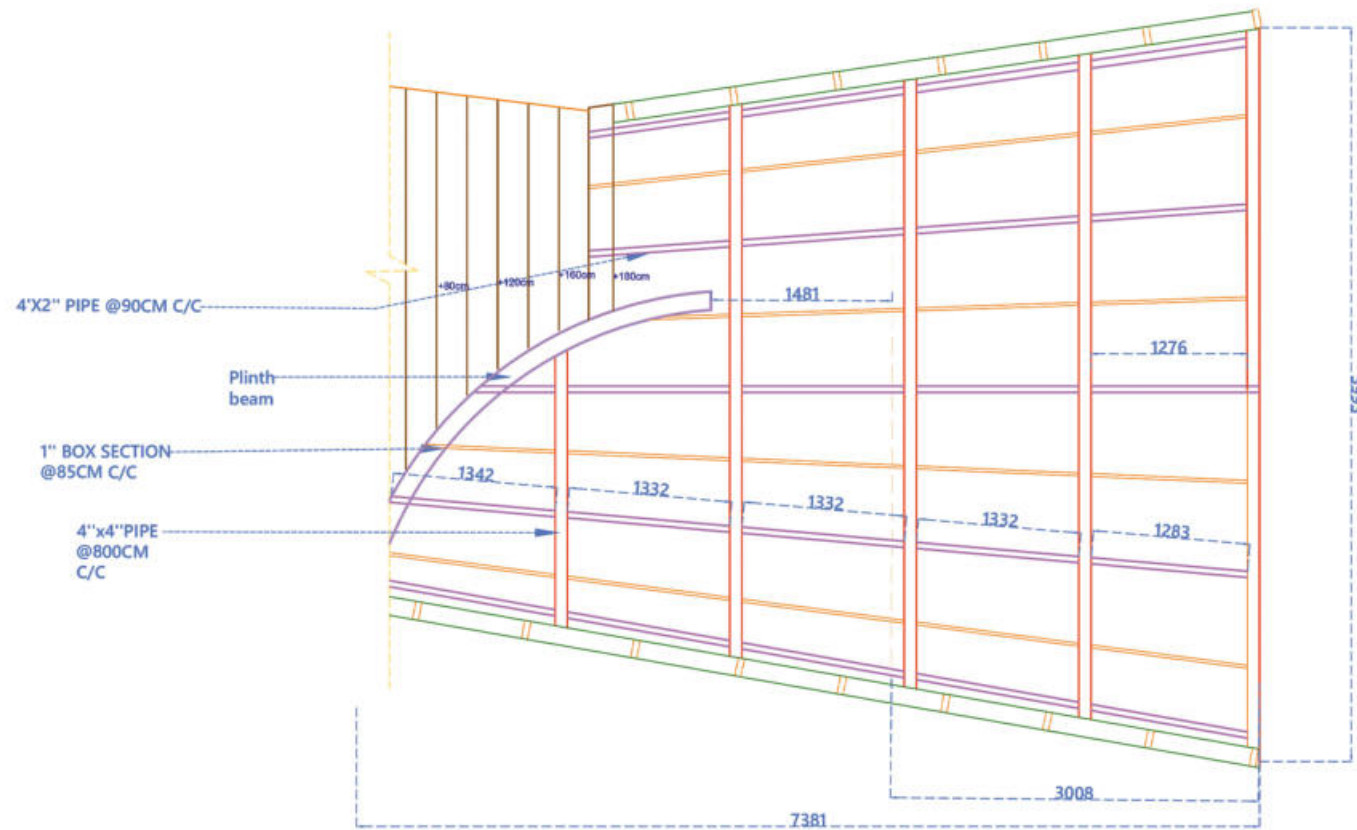


3- Babymetal

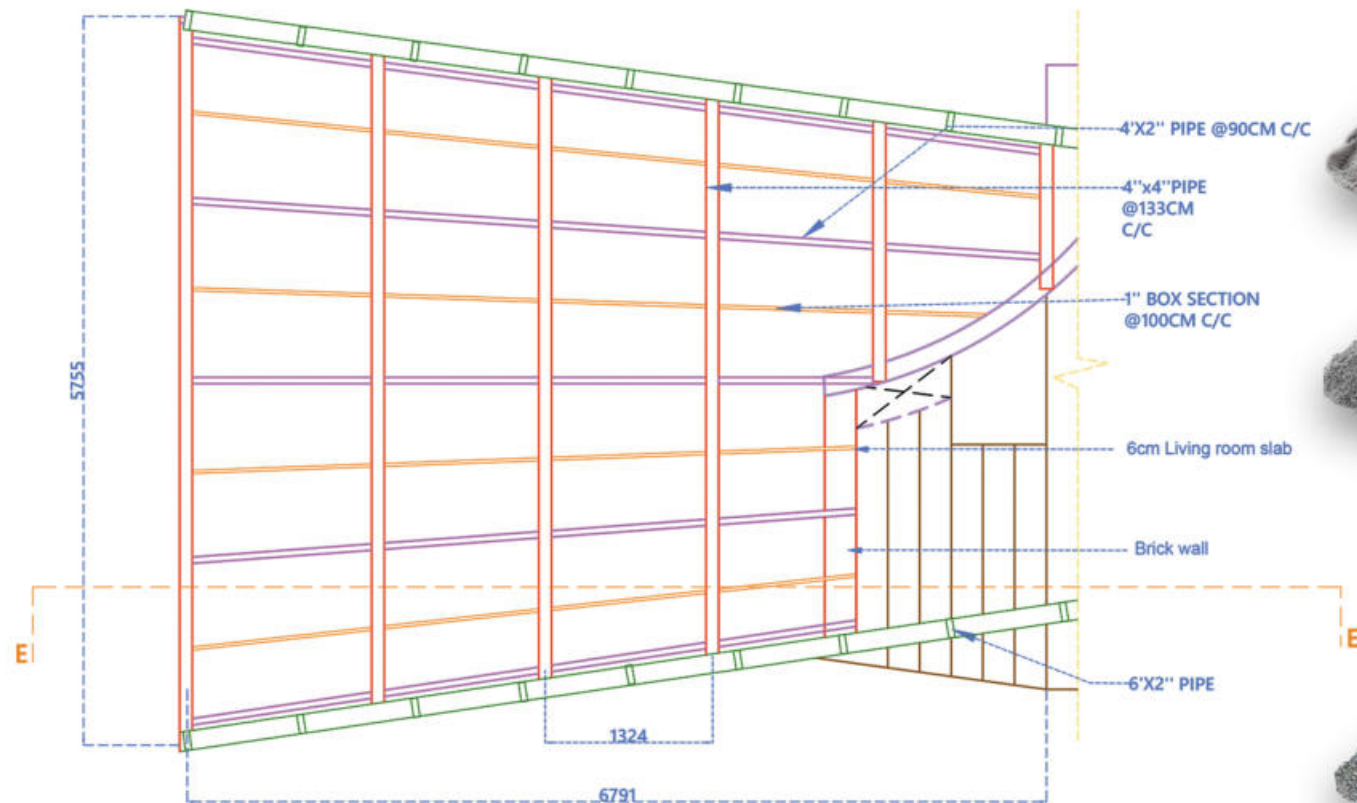


6cm thick living room slab is been created above the box section

Bedroom Slab



Plan of Bedroom floor slab 1



Plan of Bedroom Floor slab 2

MIX RATIO FOR BEAM



1 BAG - Cement



12 BONDS - M-sand



12 BONDS - Gravel



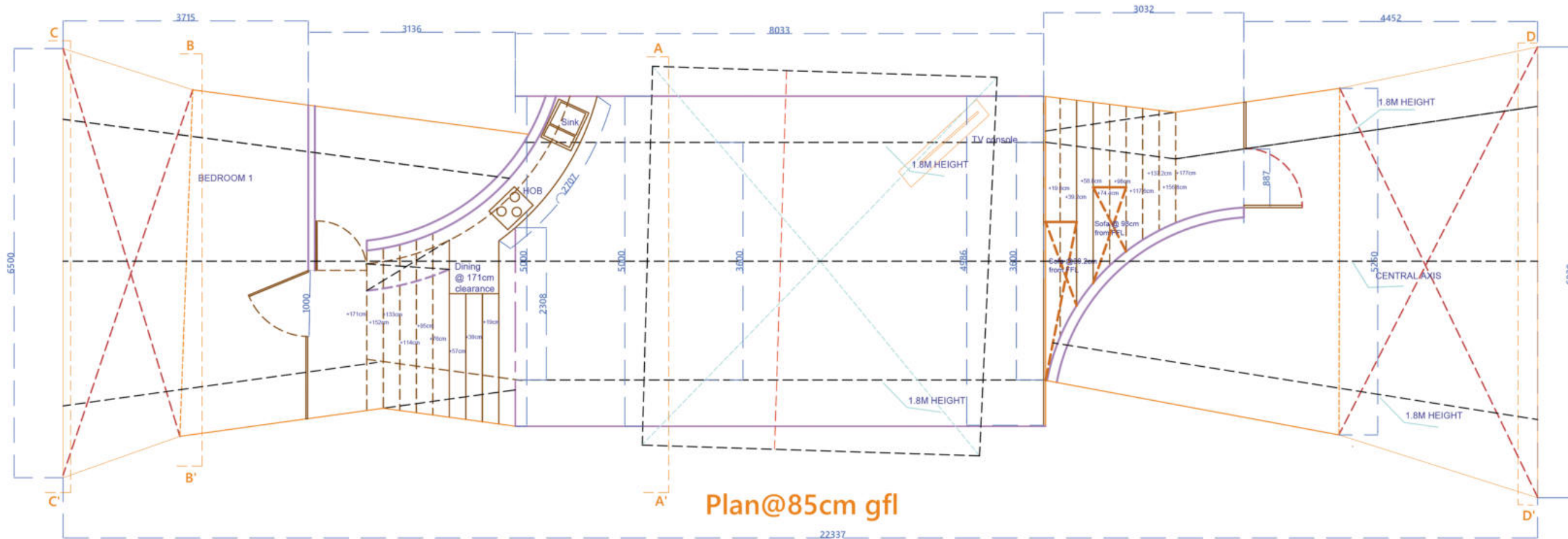
3 BONDS - Babymetal



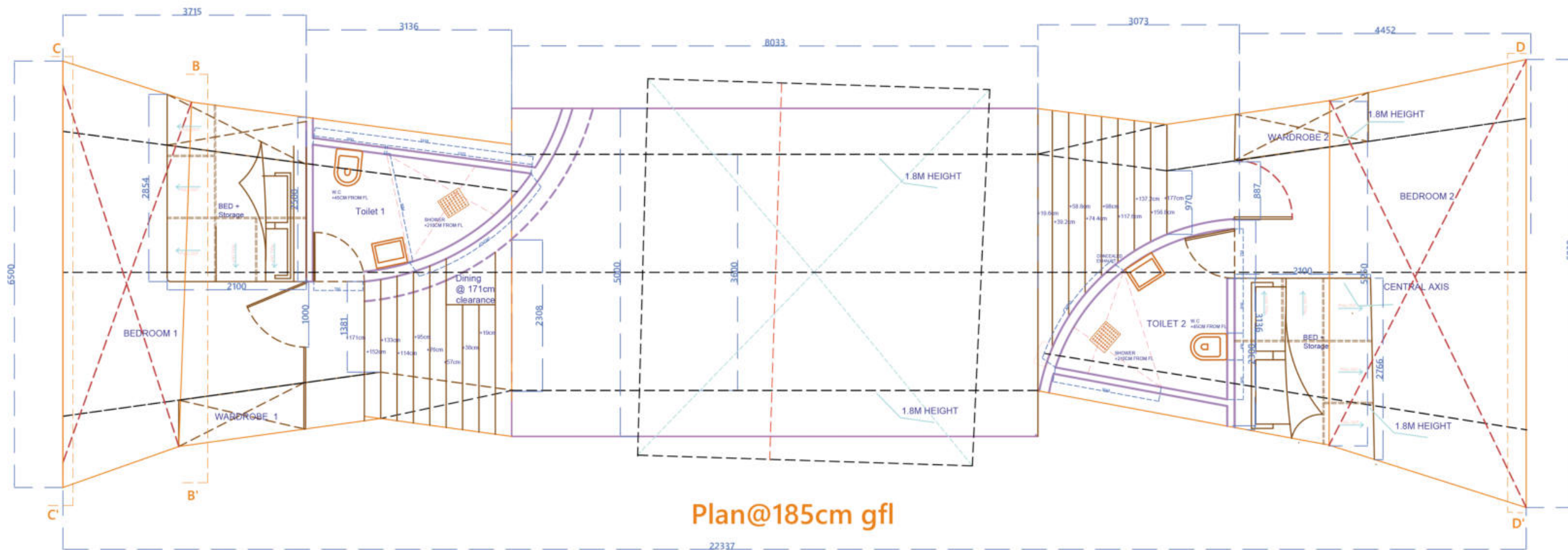
Box section were welded and chicken mesh is laied and tied using binding wires by masons.



6cm thick bed room slab is been created above the box section



Plan@85cm gfl



Plan@185cm gfl

CLIENT

MR. BAIJU

PROJECT NAME

SANCTITY FERME -
A-Frame

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DRAWING TITLE

FURNITURE PLAN

DRAWN BY:

A.KARTHIKEYAN

CHECKED BY:

Rajesh khanna

SHEET NUMBER:

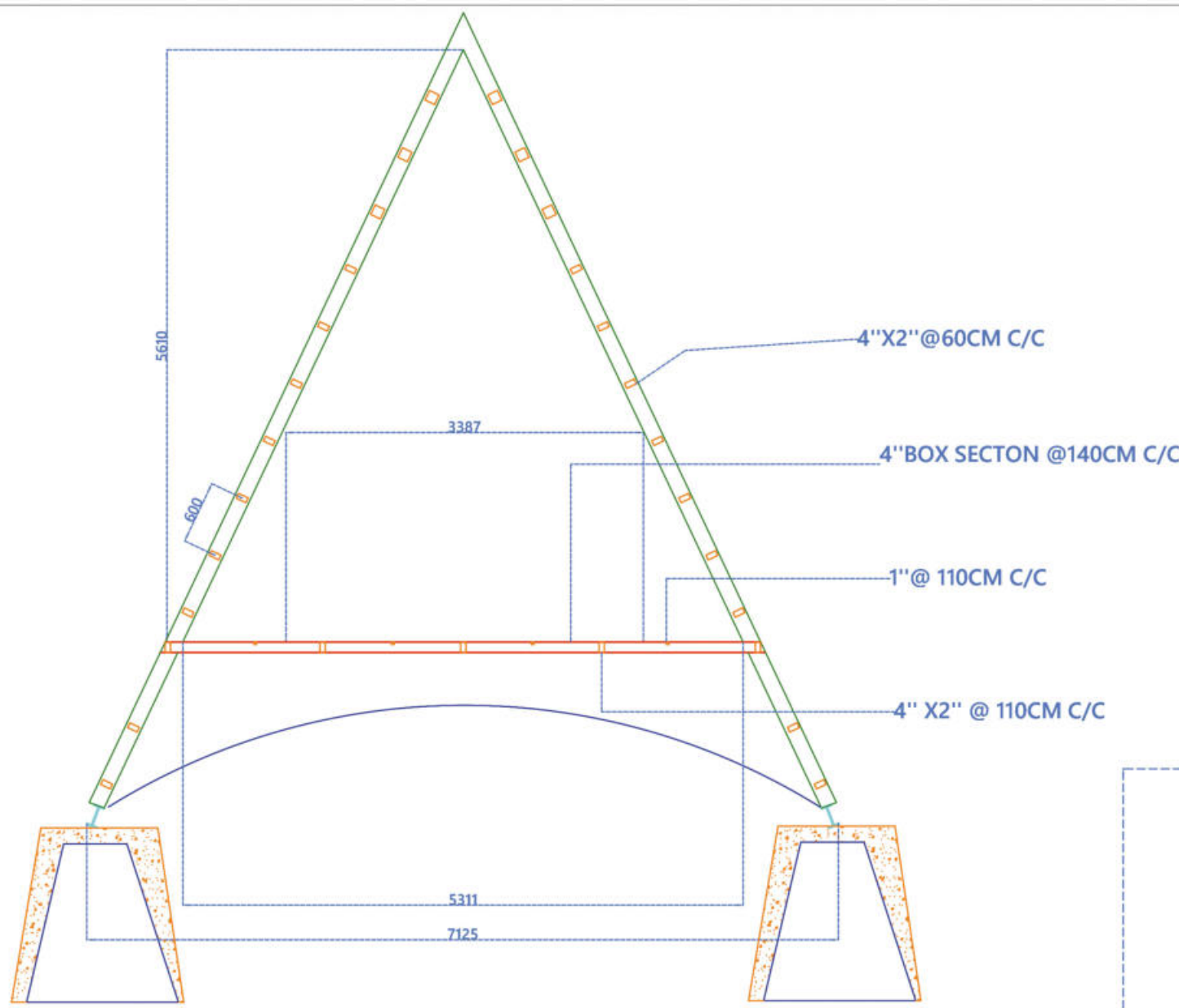
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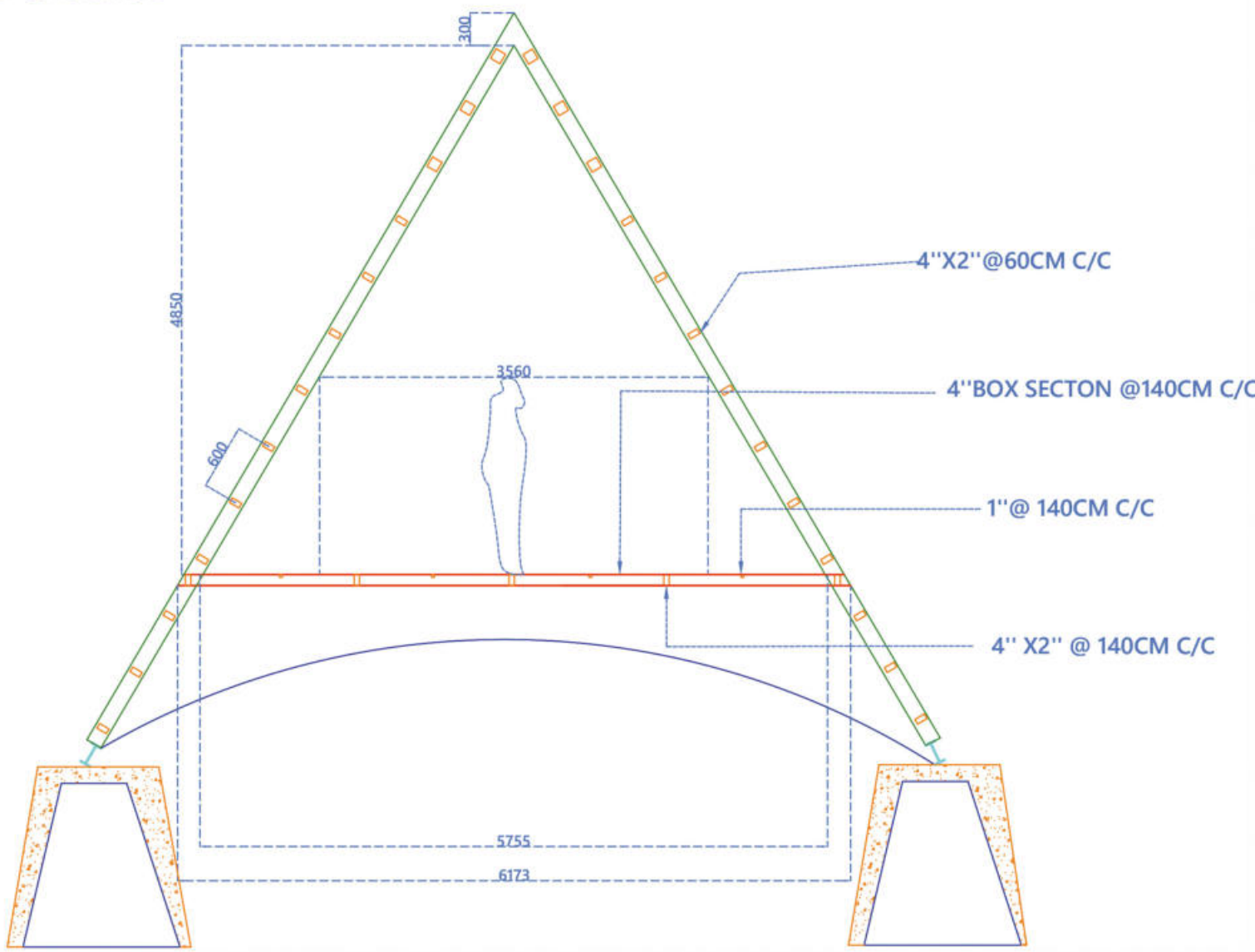
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SIGNATURE:

[Signature]
VINO DANIEL
REGISTERED ARCHITECT
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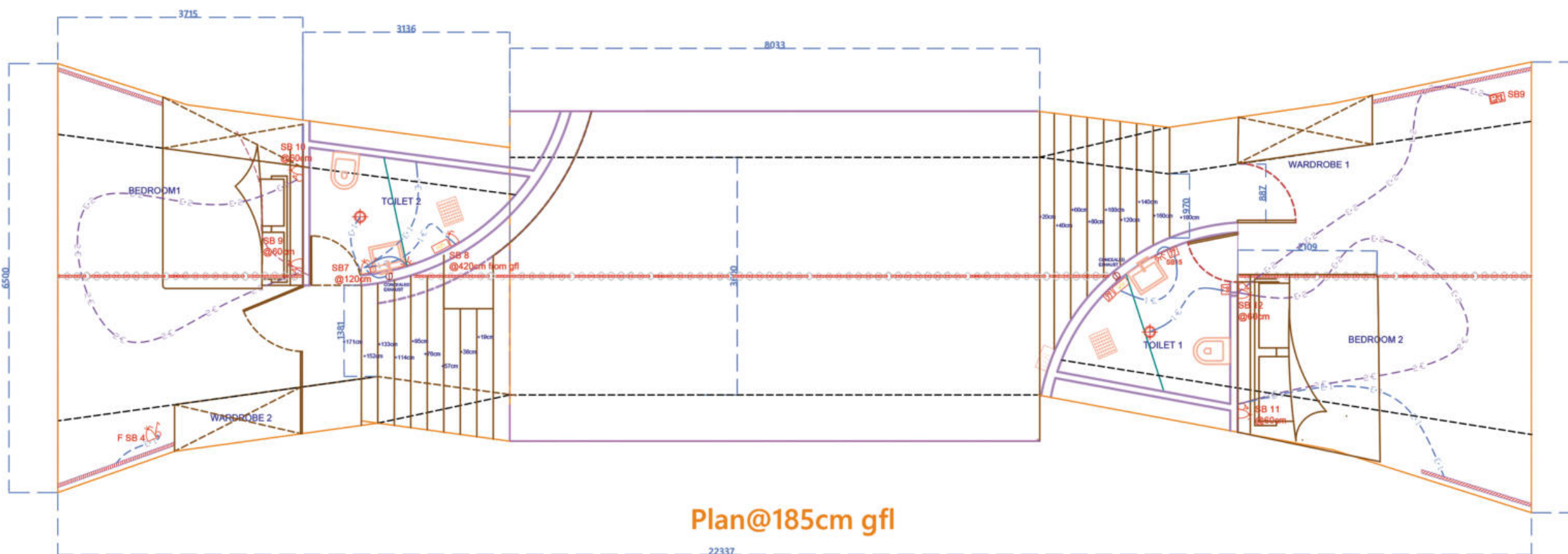
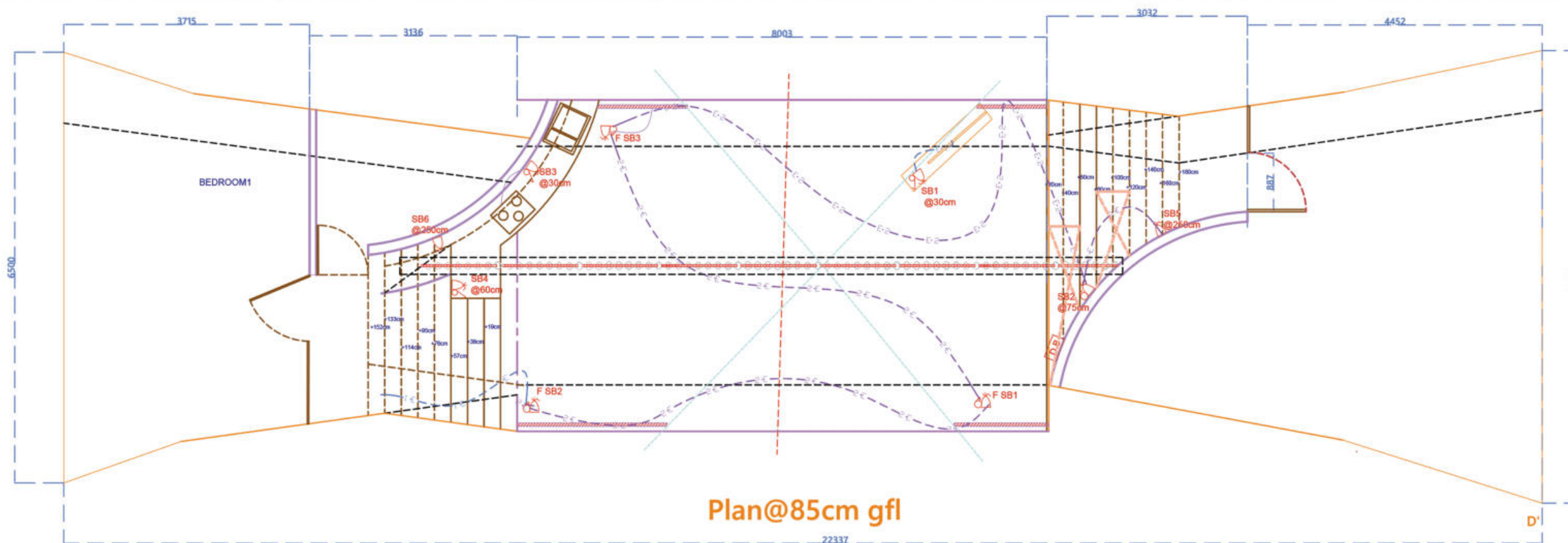


SECTION AA'- Living room

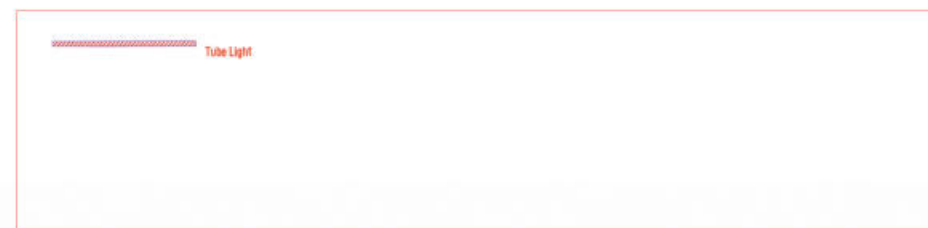


SECTION BB'- Bedroom

CLIENT	
MR. BAIJU	
PROJECT NAME	
SANCTITY FERME - A-Frame	
NOTES	
1. ALL DIMENSIONS ARE IN CM UNLESS SPECIFIED. 2. DO NOT SCALE DRAWINGS. 3. ANY AMBIGUITY OR DISCREPANCY DISCOVERED SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT. 4. ALL LEVELS ARE MEASURED FROM THE UNFINISHED FLOOR LEVEL. 5. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL AND SERVICES DRAWINGS.	
DRAWING TITLE	
SECTION	
DRAWN BY:	
A.KARTHIKEYAN	
CHECKED BY:	
Rajesh khanna	
SHEET NUMBER:	
02	
SCALE:	
NTS	
SIGNATURE:	
 VINU DANIEL REGISTERED ARCHITECT CA/2007/40274	



	Geyser		Foot lamp		WALL WASHER		Tube Light
	Telephone		Spot lamp		CEILING MOUNTED LIGHT		Tube Light
	Calling Bell		Wall mounted fan		WALL MOUNTED LIGHT		Tube Light
	15 Amp plug		Wall mounted light		One way switch		Exhaust fan
	5 Amp plug				Electric Motor		



CLIENT

MR. BAIJU

PROJECT NAME

SANCTITY FERME -
A-Frame

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5. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL AND SERVICES DRAWINGS.



DRAWING TITLE

ELECTRICAL LAYOUT
WIRE CONNECTION

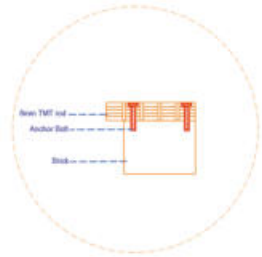
DRAWN BY:
A.KARTHIKEYAN

CHECKED BY:
Rajesh khanna

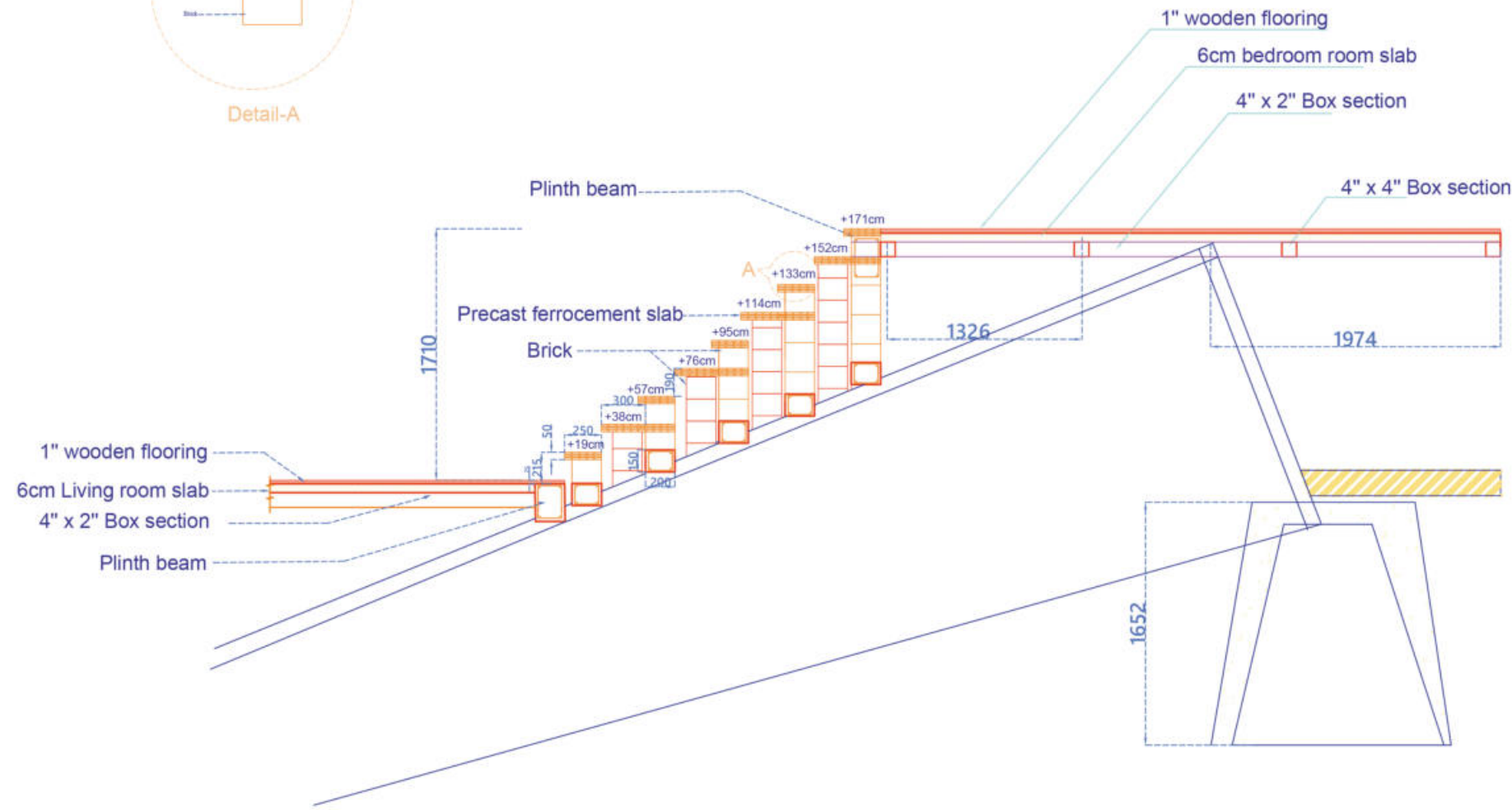
SHEET NUMBER:
03

SCALE:
NTS

SIGNATURE:
VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274



Detail-A

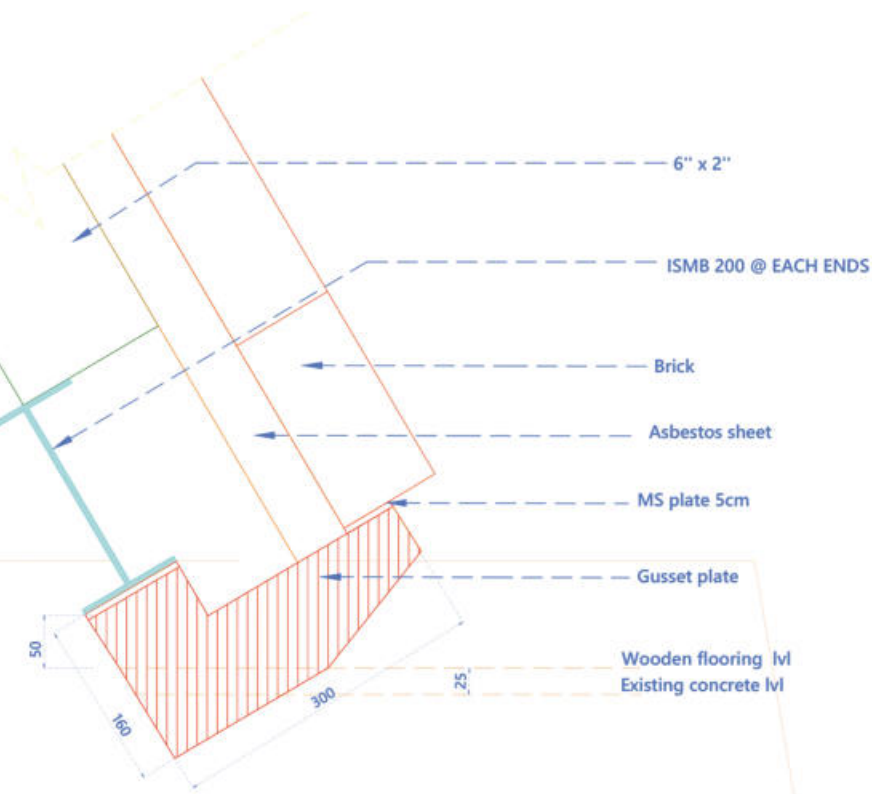
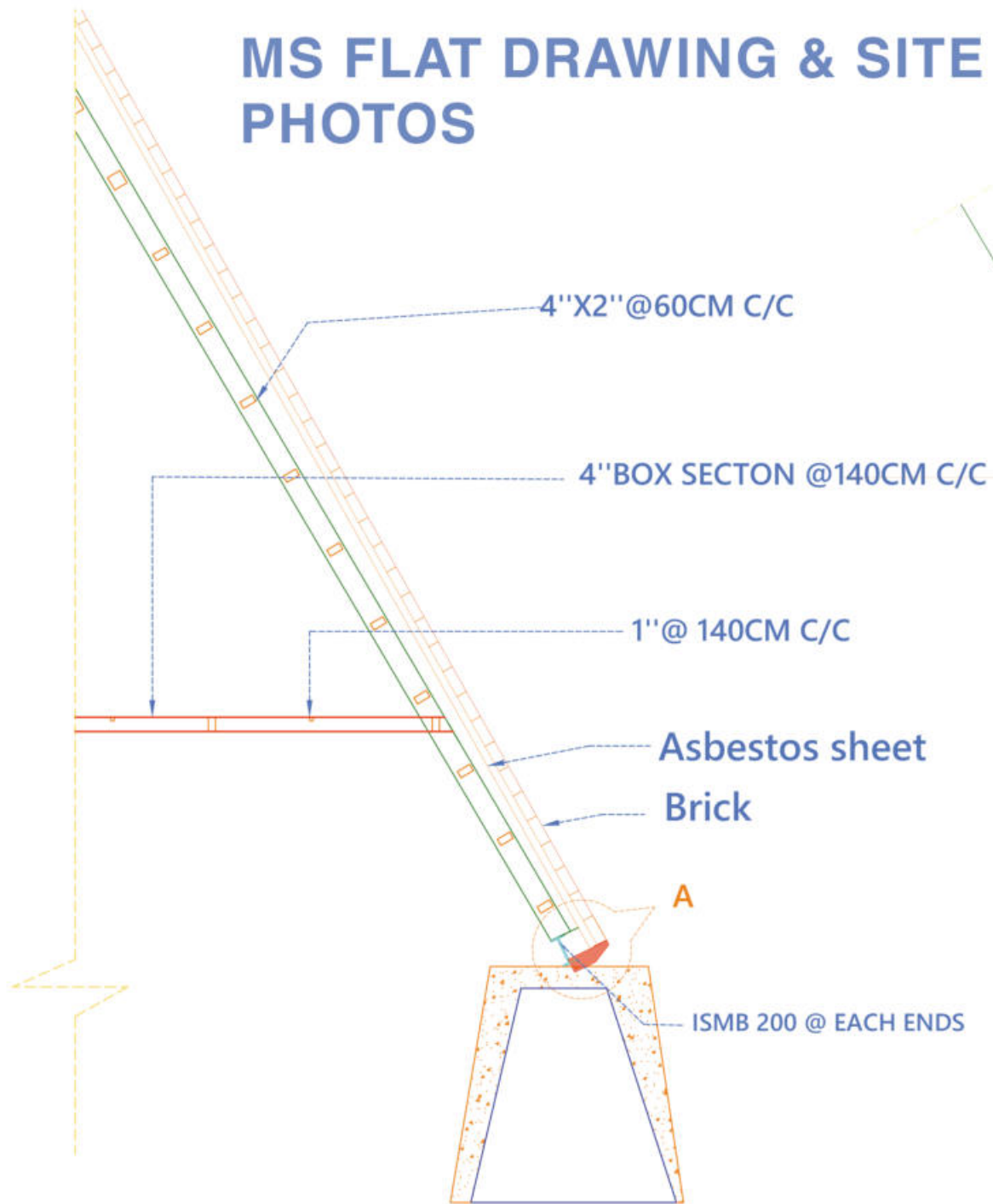


SECTION FF' - STEPS DRAWING AND SITE PICTURES

Vinu Daniel
VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274



MS FLAT DRAWING & SITE PHOTOS

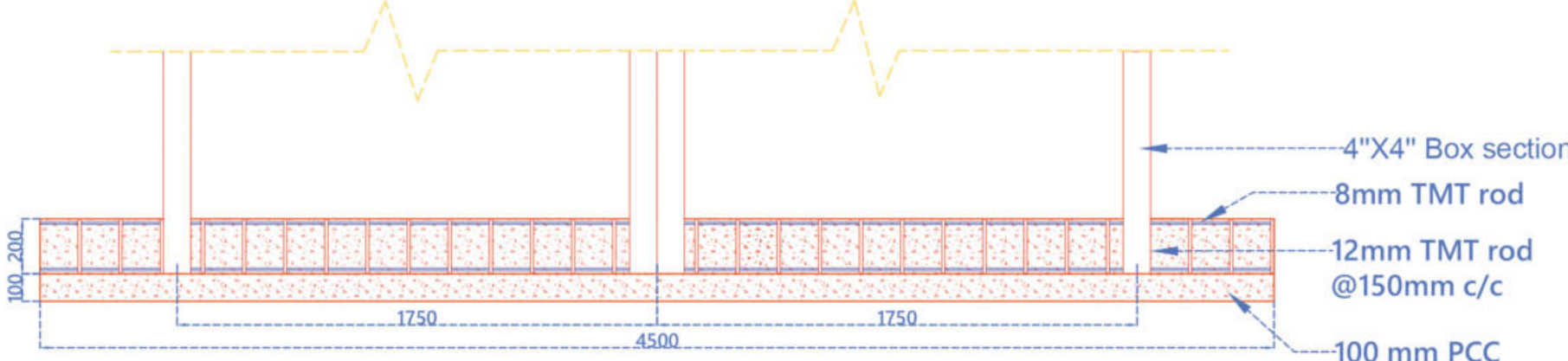


MS Flat detail

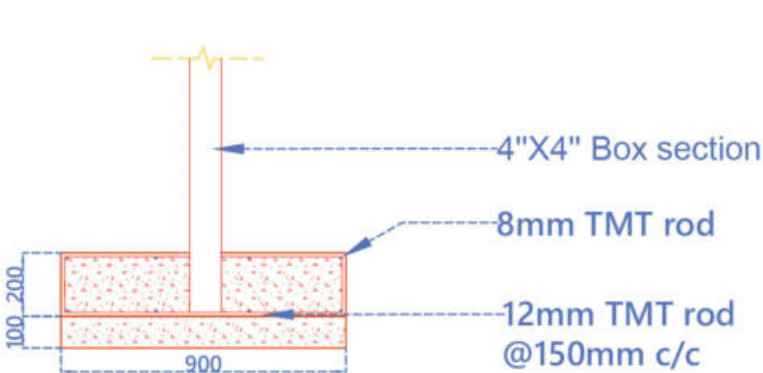
VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274



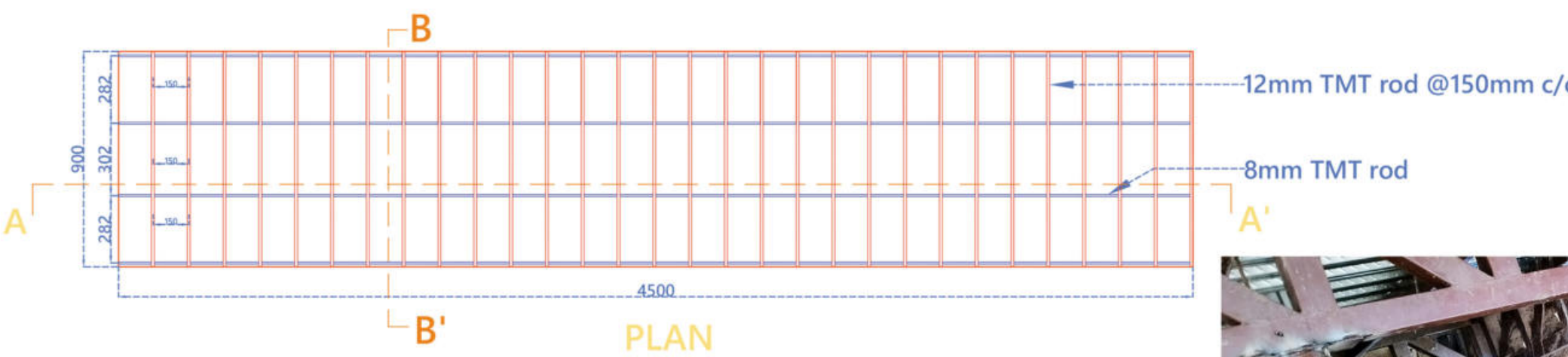
FOUNDATION DRAWING & SITE PHOTOS



SECTION AA'



SECTION BB'



PLAN

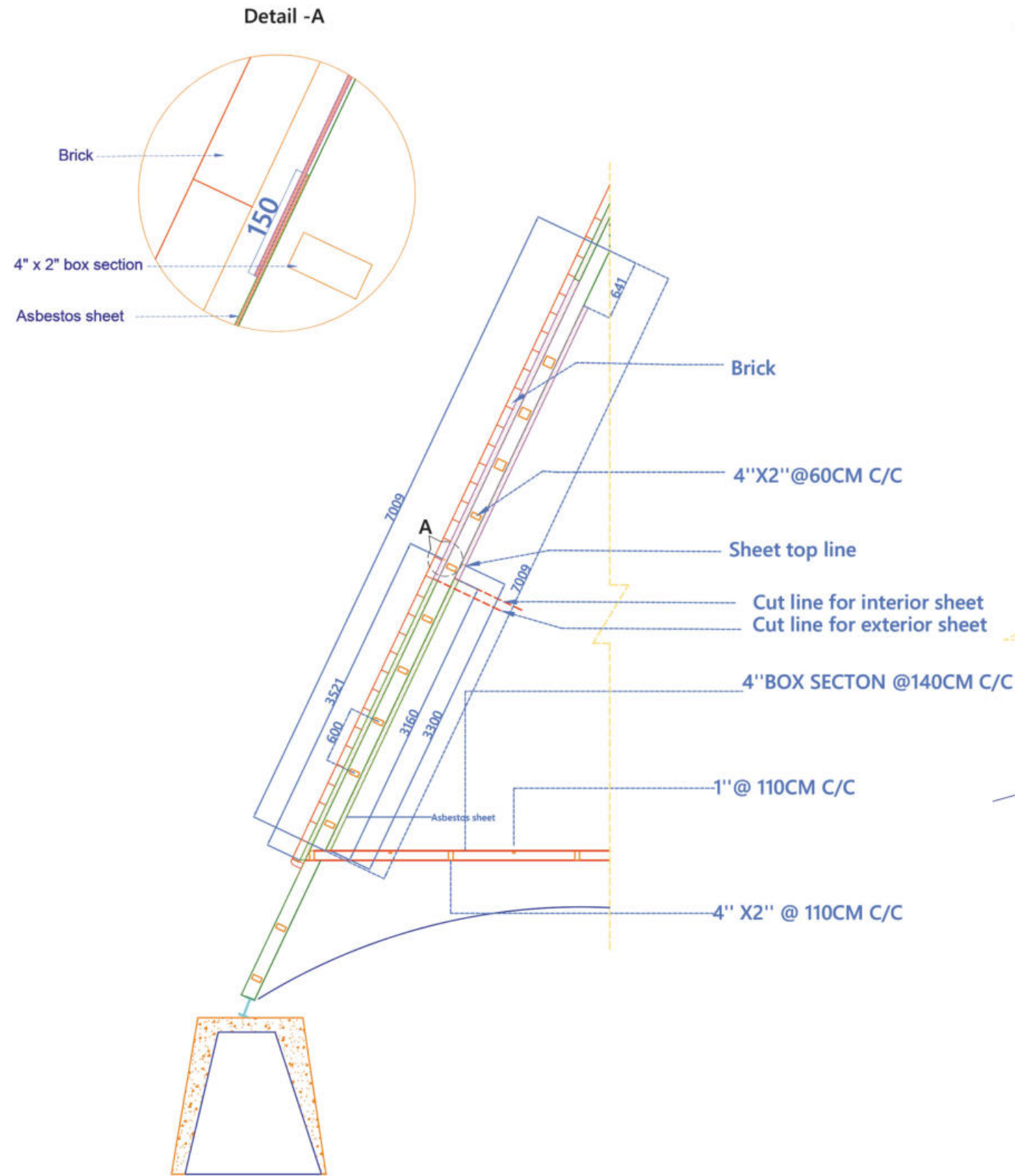




Due to overloading there were a small bend in 4"x4" box section below the structure

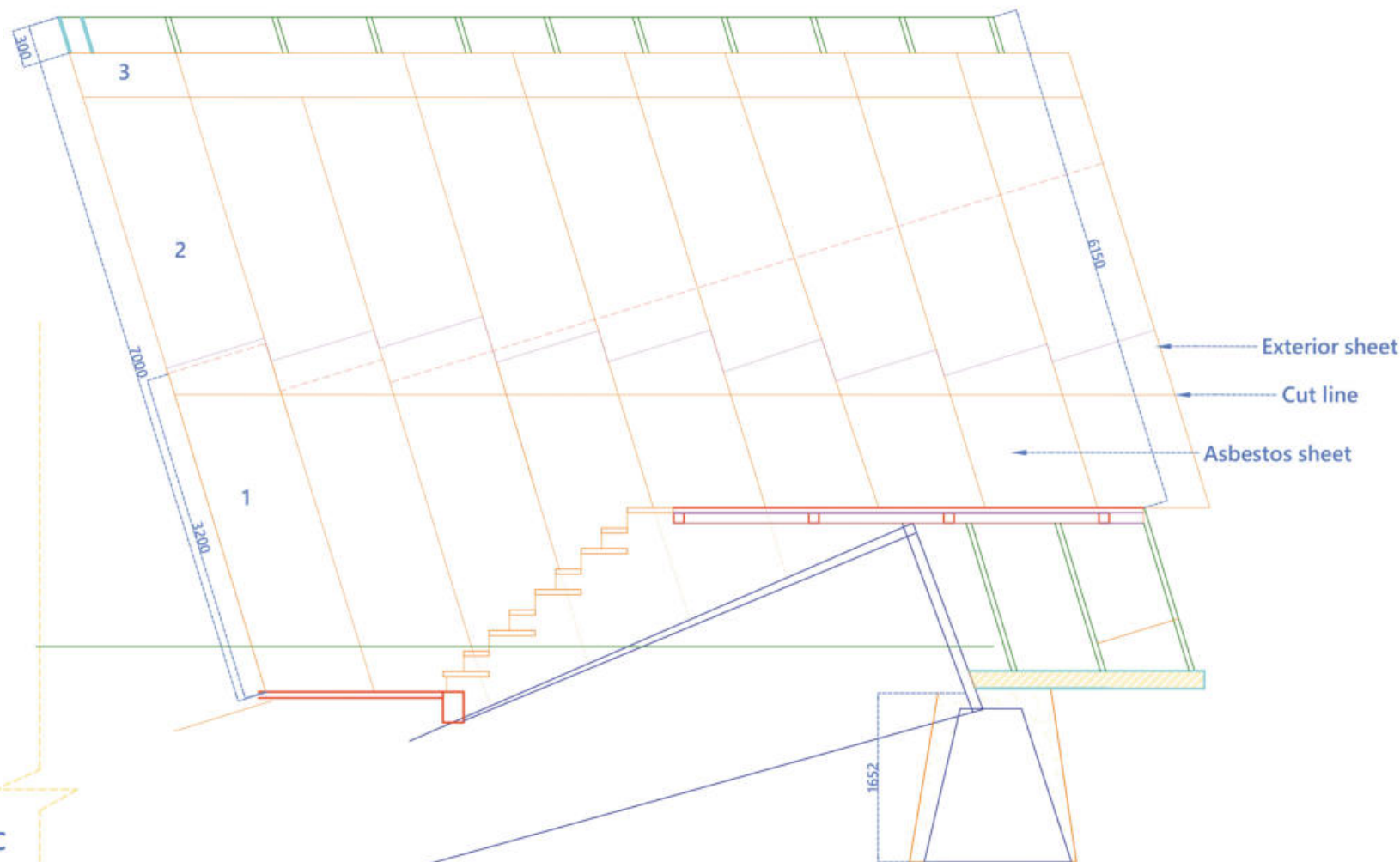


ASBESTOS SHEET DRAWING & SITE PHOTOS



Sheet section


VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

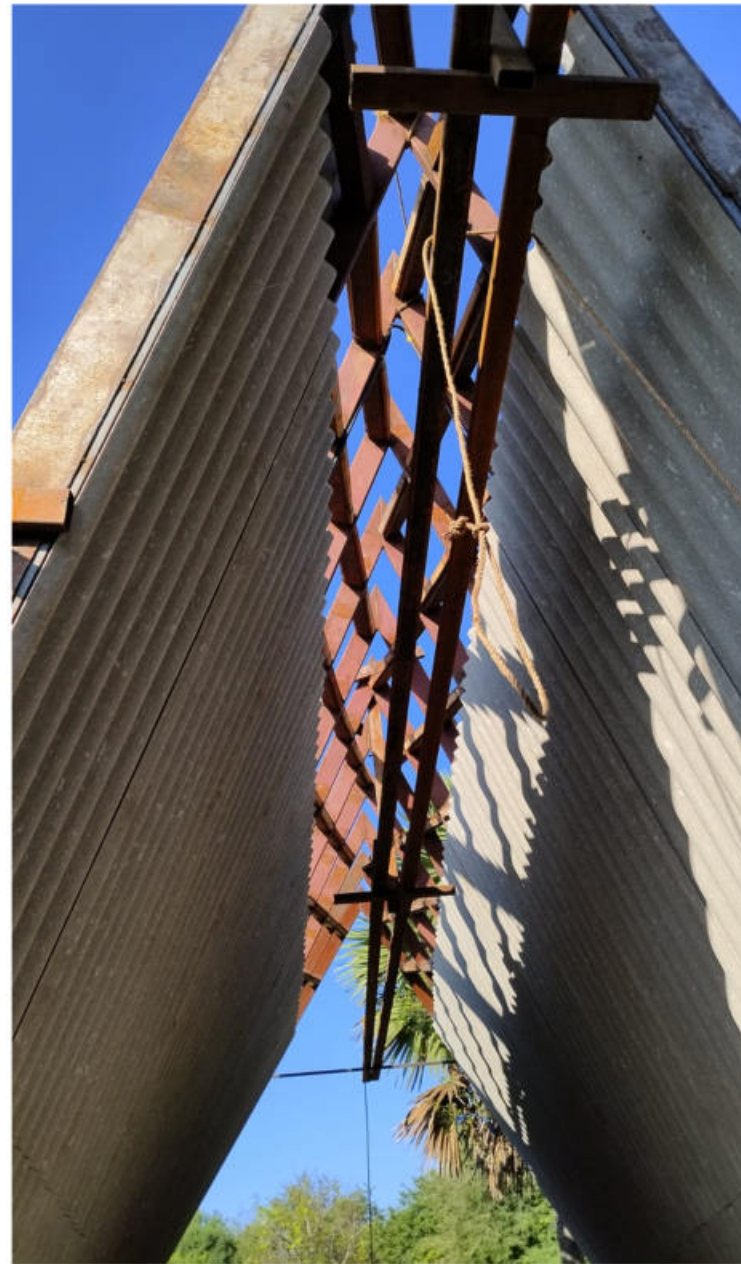


Interior sheet elevation





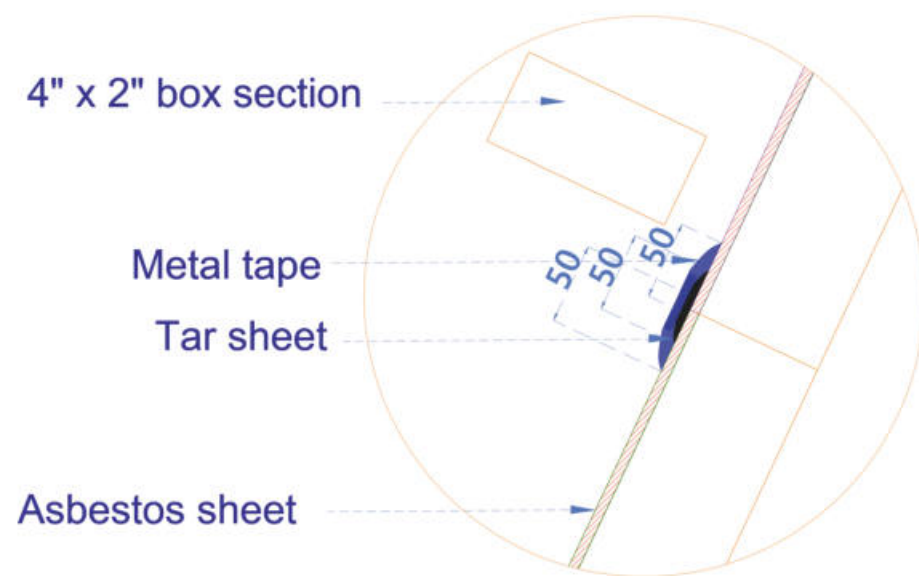
Asbestos sheet lvl marking using water lvl.



Asbestos sheet interior placements.



Asbestos sheet exterior placements



Tar sheet and Metal Tape detail

VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274



Tar sheet and metal tape sticking above asbestos sheet



Pattern done by Ar. Vinu Daniel



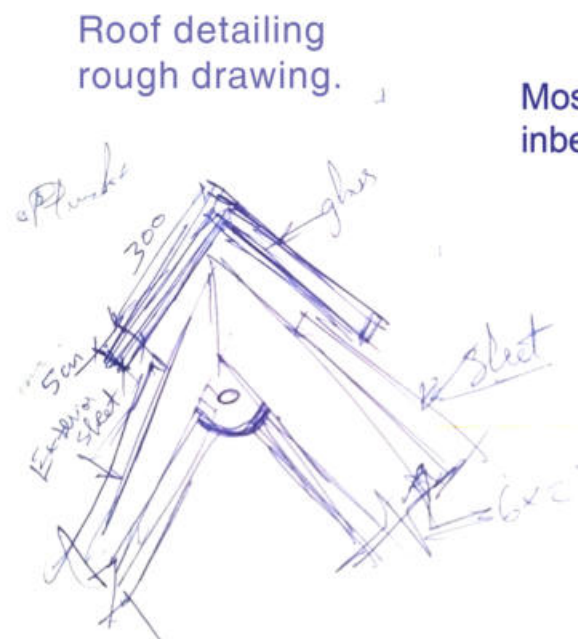
Pattern done by me and masons supervisor Manimaran.

Ar.Vinu came to site and explained about the brick pattern which is going to come above the sheet.

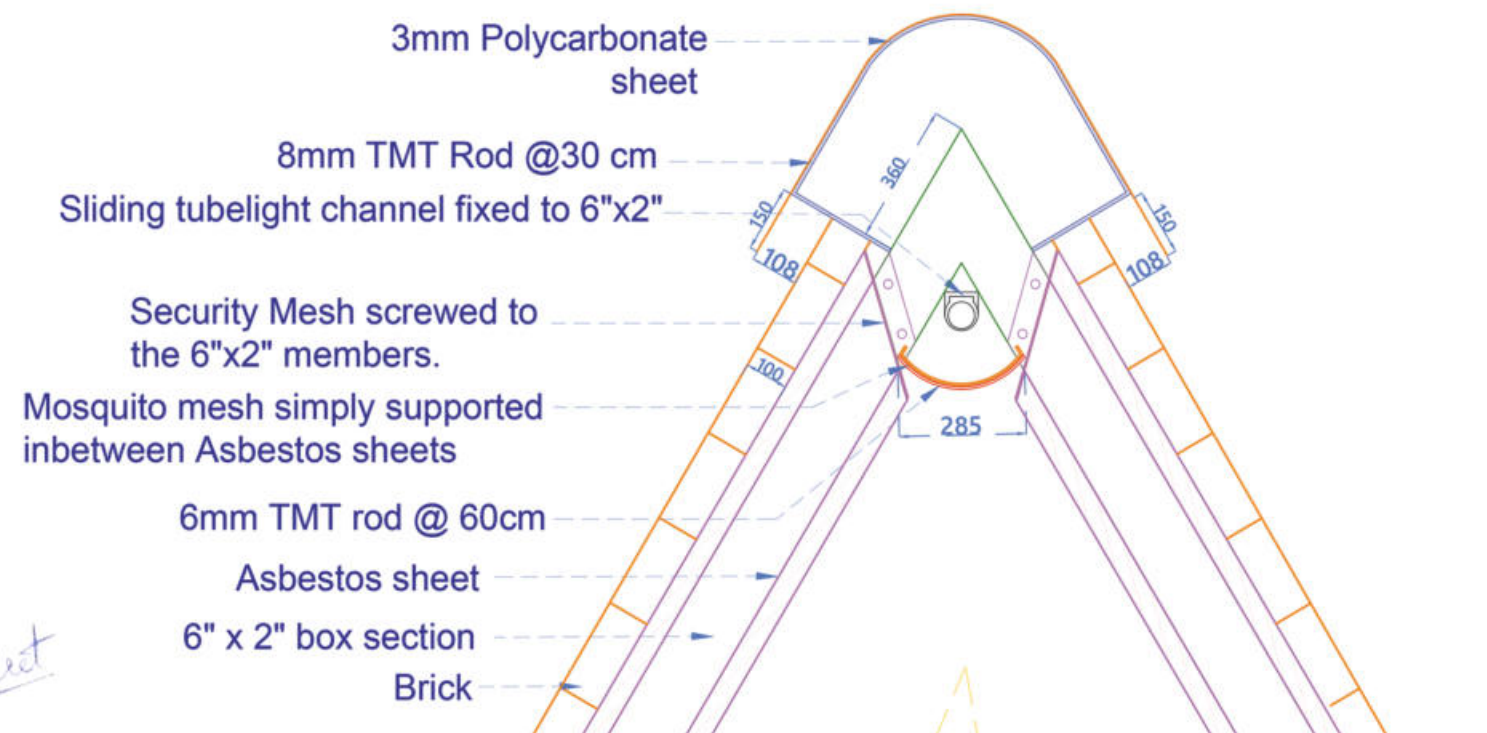
Mix Ratio 1:3 Dry mix (Cement : M-sand)



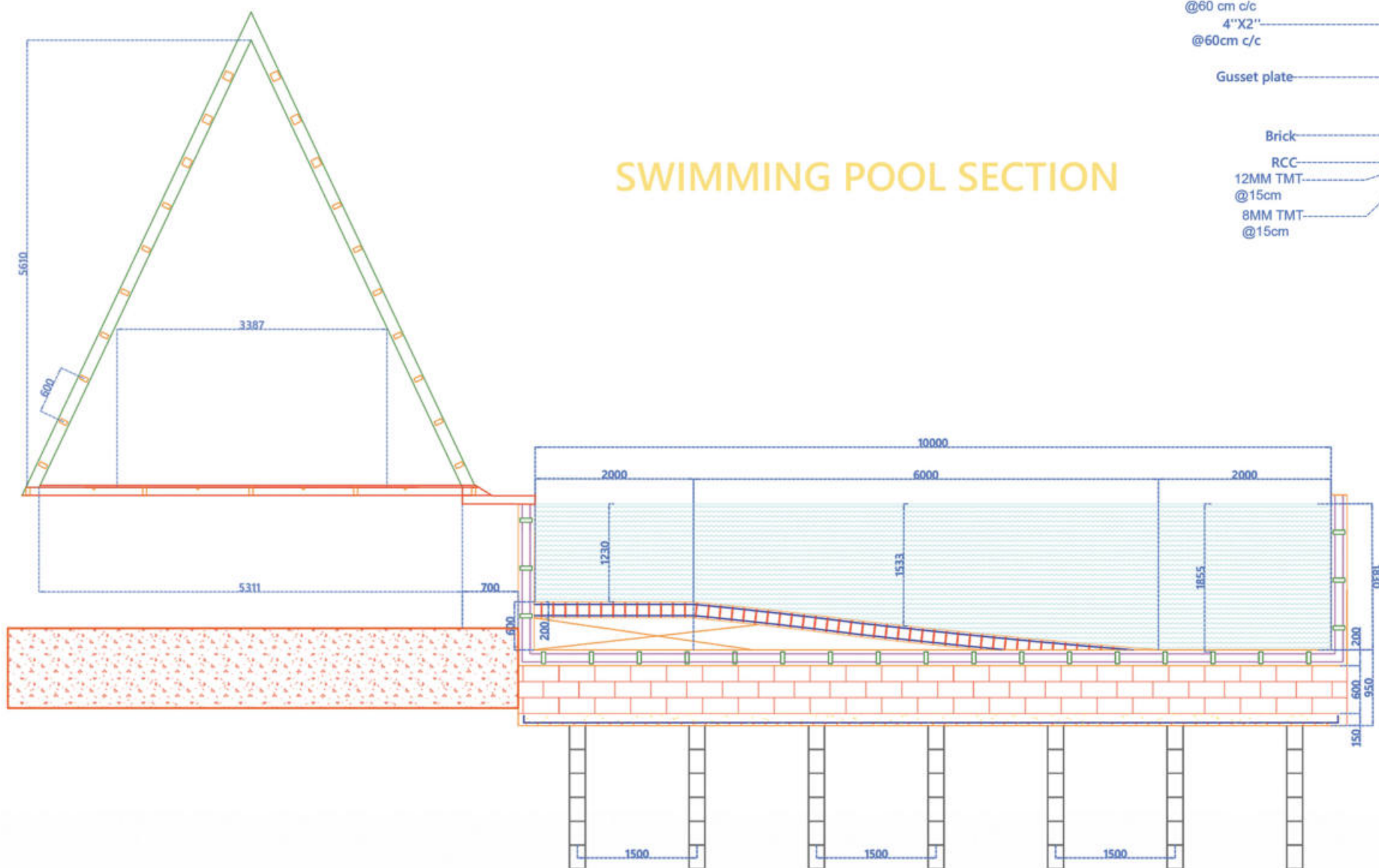
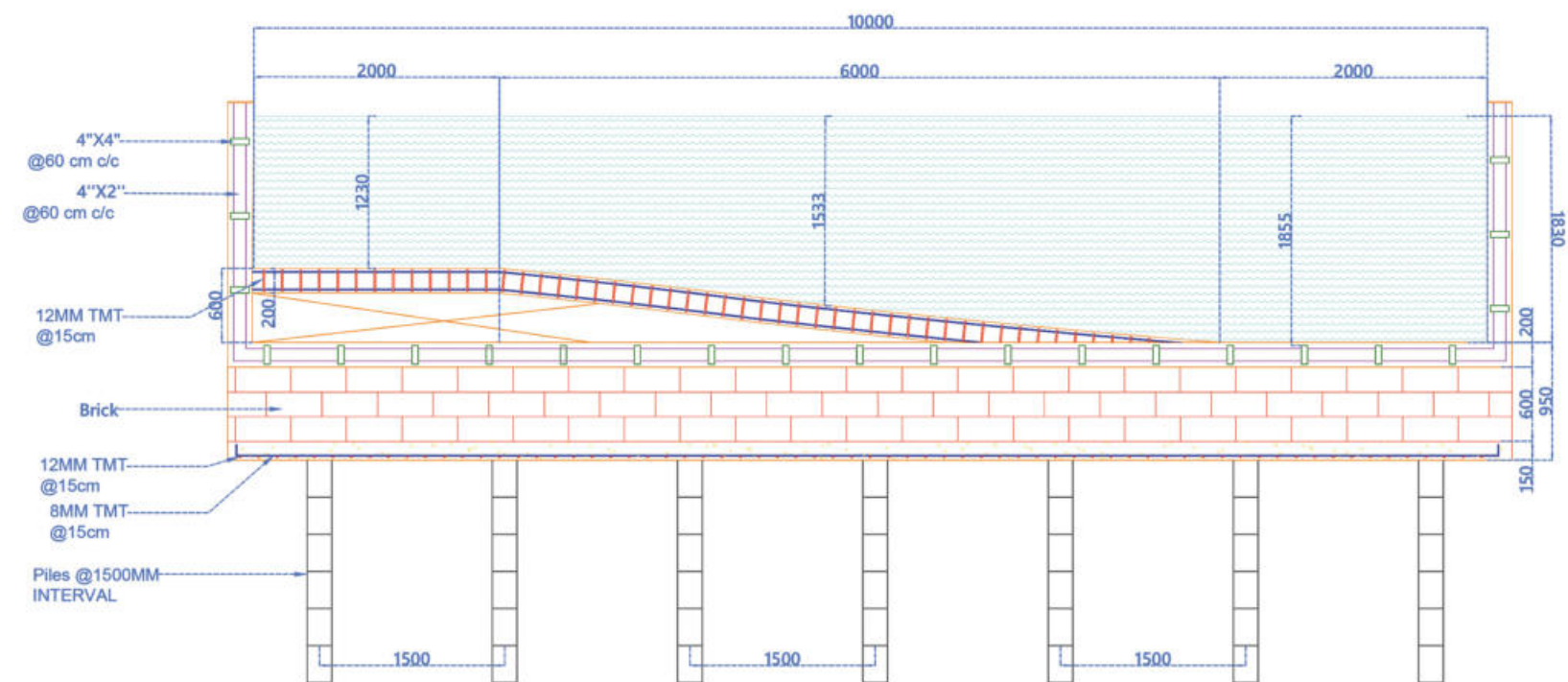
PU paint is been painted above the Asbestos sheet with mixing pf 25kg Pu with 5L of thinner.



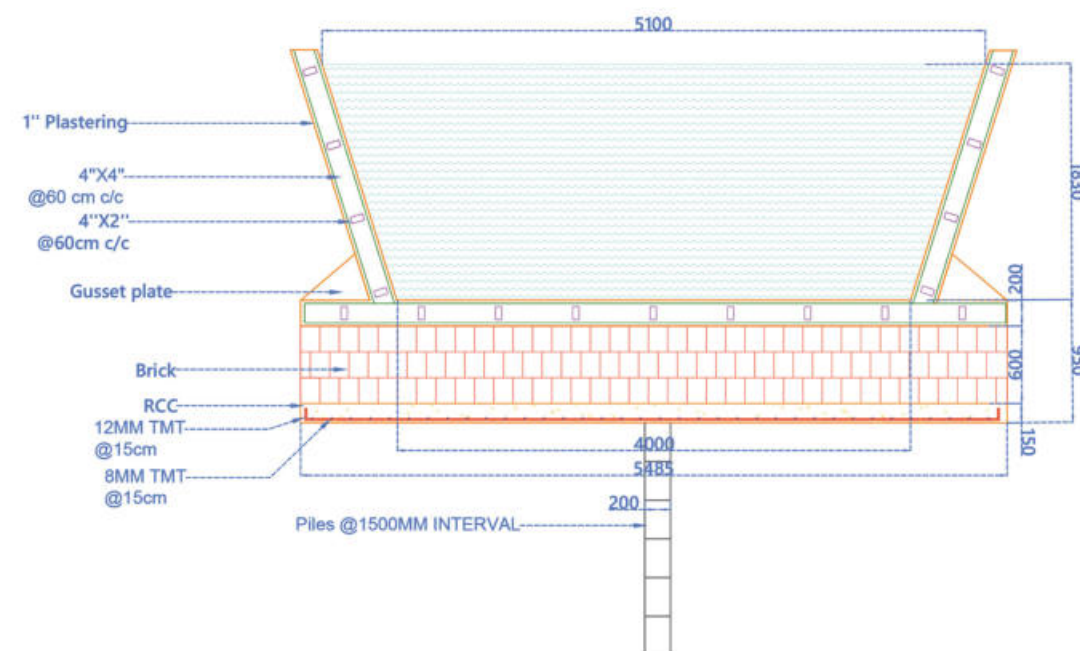
Roof detailing rough drawing.



Roof Detailing



SWIMMING POOL SECTION



CLIENT

MR. BAIJU

PROJECT NAME

SANCTITY FERME -
A-Frame

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WALLMAKERS
architectural consultants

DRAWING TITLE

SWIMMING POOL

DRAWN BY:

A.KARTHIKEYAN

CHECKED BY:

Rajesh khanna

SHEET NUMBER:

05

SCALE:

NTS

SIGNATURE:

Vinu Daniel
VINU DANIEL
REGISTERED ARCHITECT
CA/2007/49274

CASUARINA

Casuarina poles seasoning process that was used in Flinstone.

1 : 10(2&3) Mix Ratio

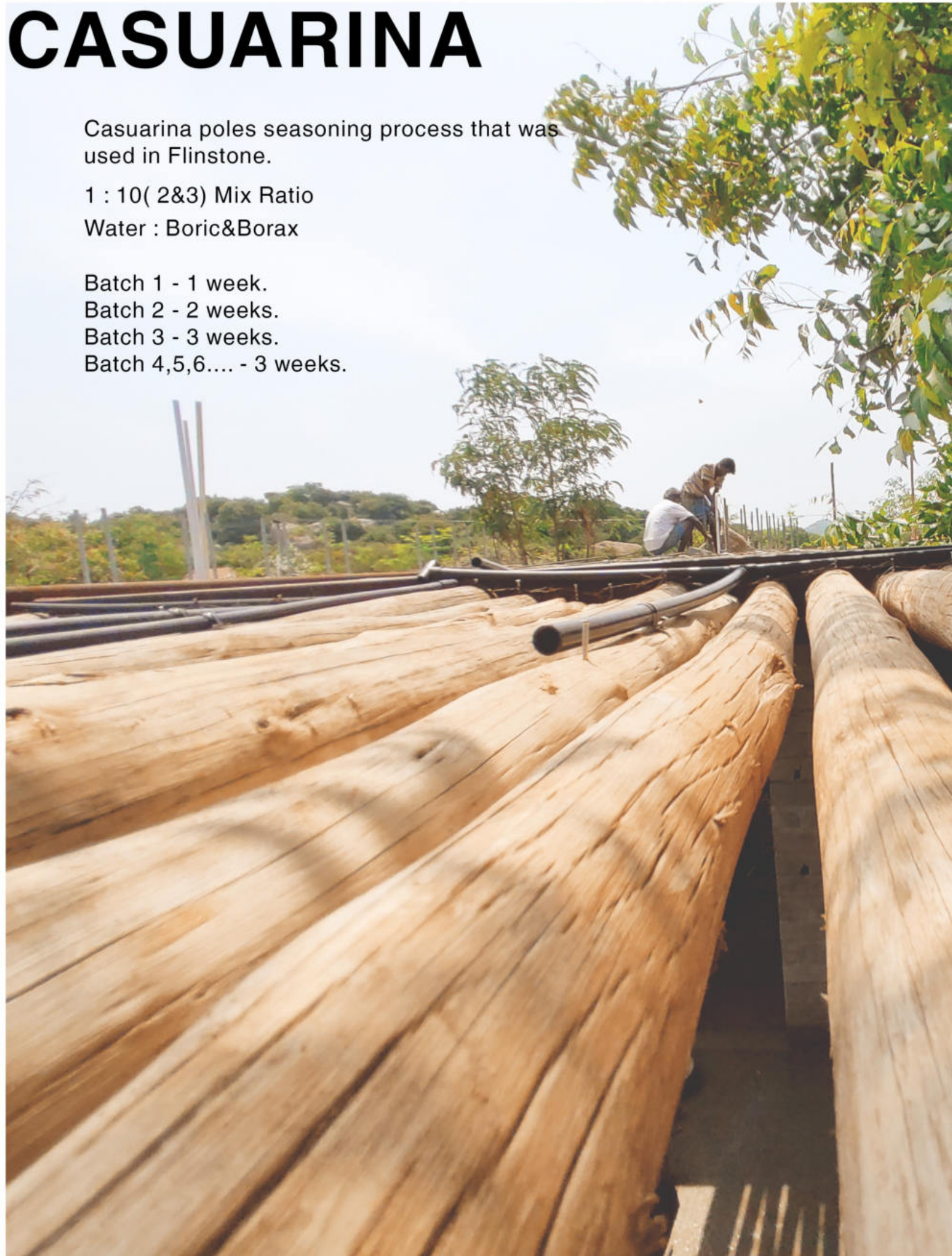
Water : Boric&Borax

Batch 1 - 1 week.

Batch 2 - 2 weeks.

Batch 3 - 3 weeks.

Batch 4,5,6.... - 3 weeks.





I have been sent to Ananthapuram,Villupuram for wood procurement along with carpenter Jayraj.

The main task is to get Pillamaruthu -Second quality wood for Chuzhi flooring. I have also dealt with cash transaction and managing.



Pillamaruthu 2nd quality wood procurement from warehouse.



Reaping of wood with 3/4 inch thickness



Totally 7 tones of wood costs of 1,70,000 taken in TATA Ace from Vilupuram stock room to Ananthapuram warehouse for reaping. After 1 week the work got over and I took all the woods to SF.

BILLS

Balaji Electronic Weigh Bridge

886, EAST PONDY ROAD, VILLUPURAM

Date **17/06/2022**

Bill No. **263957**

Truck No. **TN02AT2989**

DESCRIPTION	EMPTY	LOAD	NET
Date	17/06/2022	17/06/2022	
Time	9:48:27 AM		
Serial No.		4410	770
Weight			x
Charge		Rs. 40.00/-	39
Material		Goods	2000

0006313

For Balaji Electronic Weigh Bridge

Thank You ! Visit Again !!

Balaji Electronic Weigh Bridge

886, EAST PONDY ROAD, VILLUPURAM

Date **17/06/2022**

Bill No. **263961**

Truck No. **TN01G2690**

DESCRIPTION	EMPTY	LOAD	NET
Date	17/06/2022	17/06/2022	
Time	10:01:08 AM	11:18:32 AM	
Serial No.			
Weight	1560	3560	2000
Charge	Rs. 40.00/-	Rs. 40.00/-	x
Material		Goods	39

0006316

For Balaji Electronic Weigh Bridge

Thank You ! Visit Again !!

Balaji Electronic Weigh Bridge

886, EAST PONDY ROAD, VILLUPURAM

Date **17/06/2022**

Bill No. **263954**

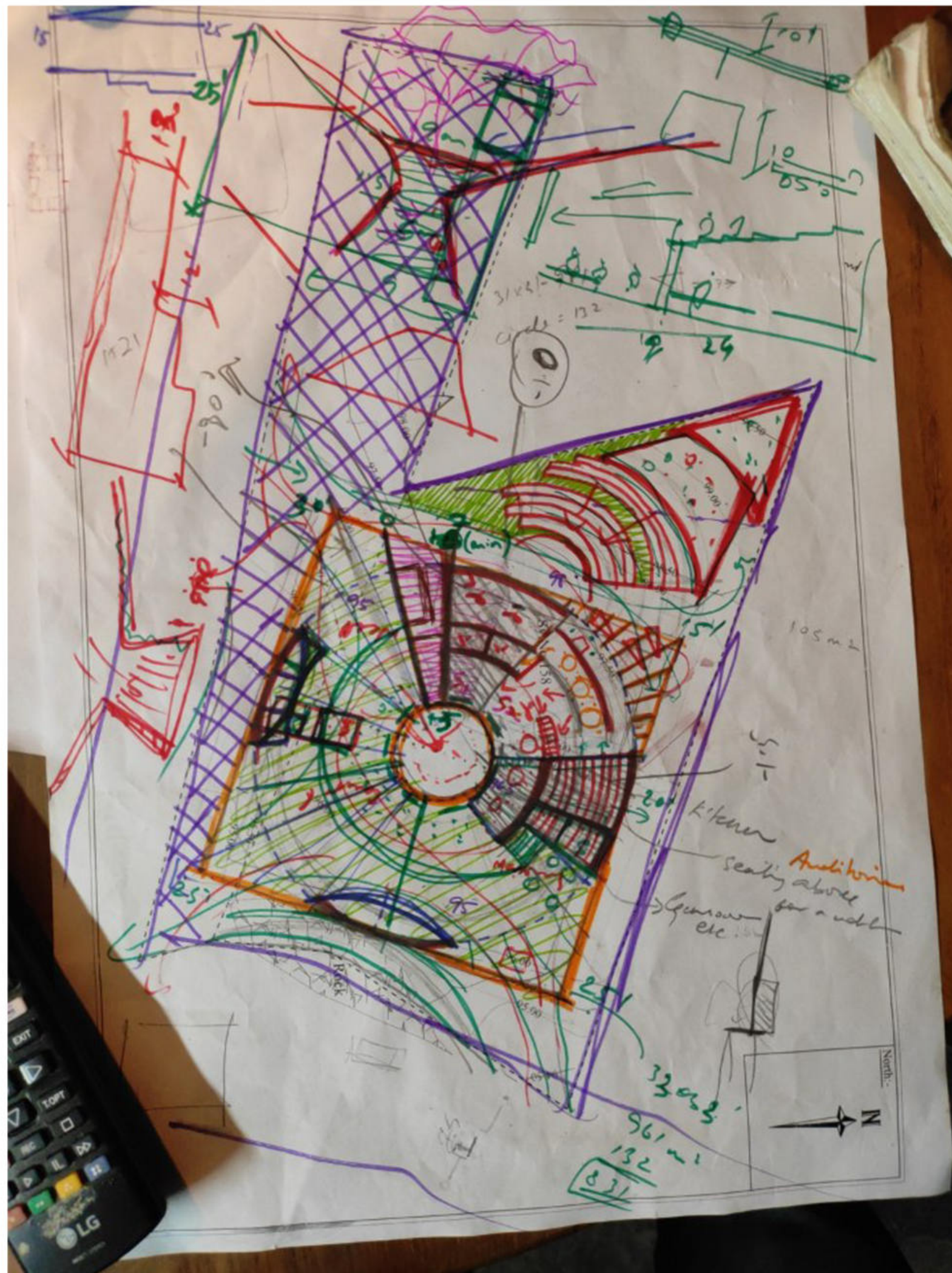
Truck No. **TN02AT2989**

DESCRIPTION	EMPTY	LOAD	NET
Date	17/06/2022	17/06/2022	
Time	8:09:24 AM	8:45:44 AM	
Serial No.			
Weight	2110	3640	1530
Charge	Rs. 40.00/-	Rs. 40.00/-	x
Material		Goods	39

0006308

For Balaji Electronic Weigh Bridge

Thank You ! Visit Again !!



AMRL

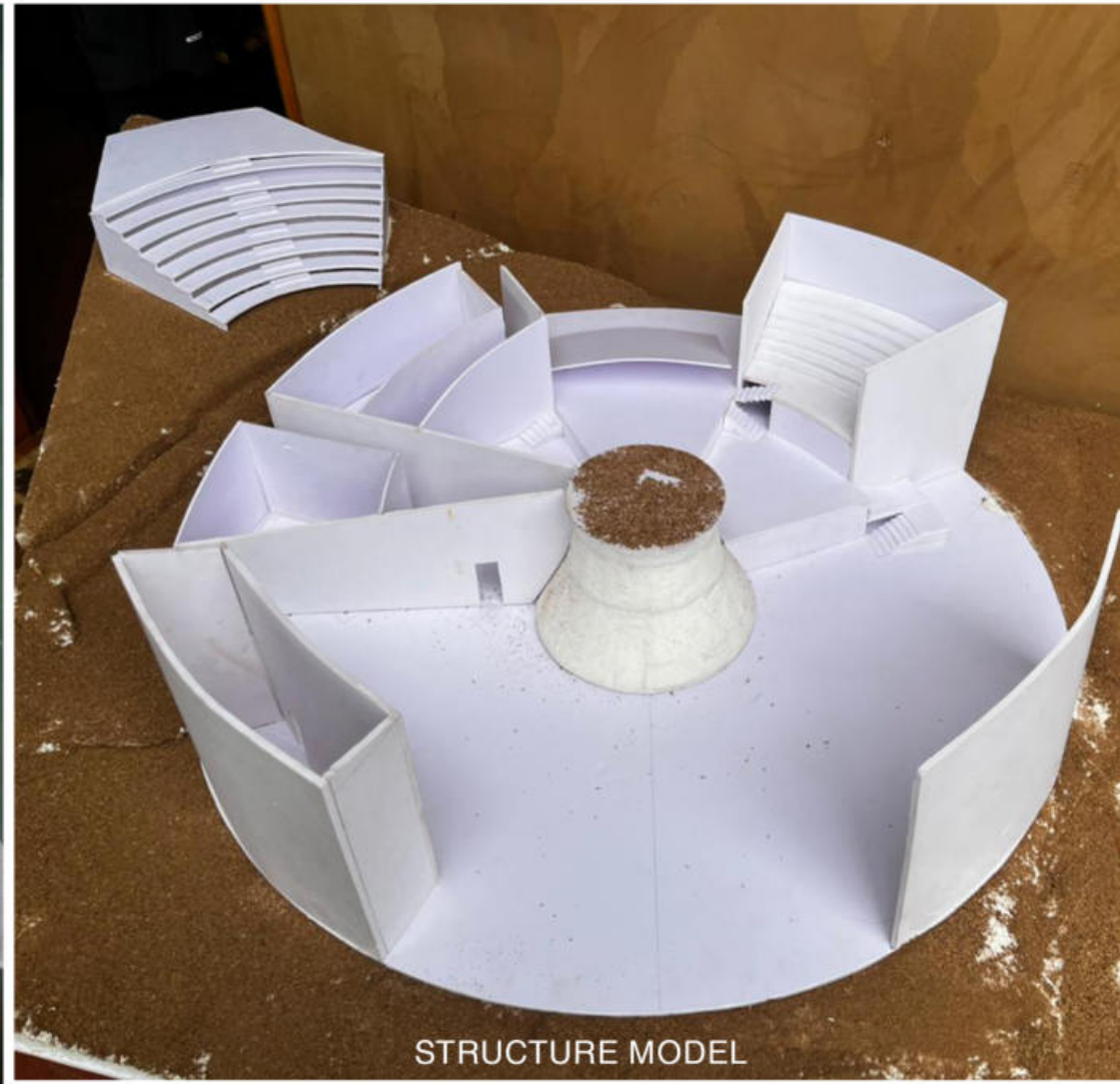
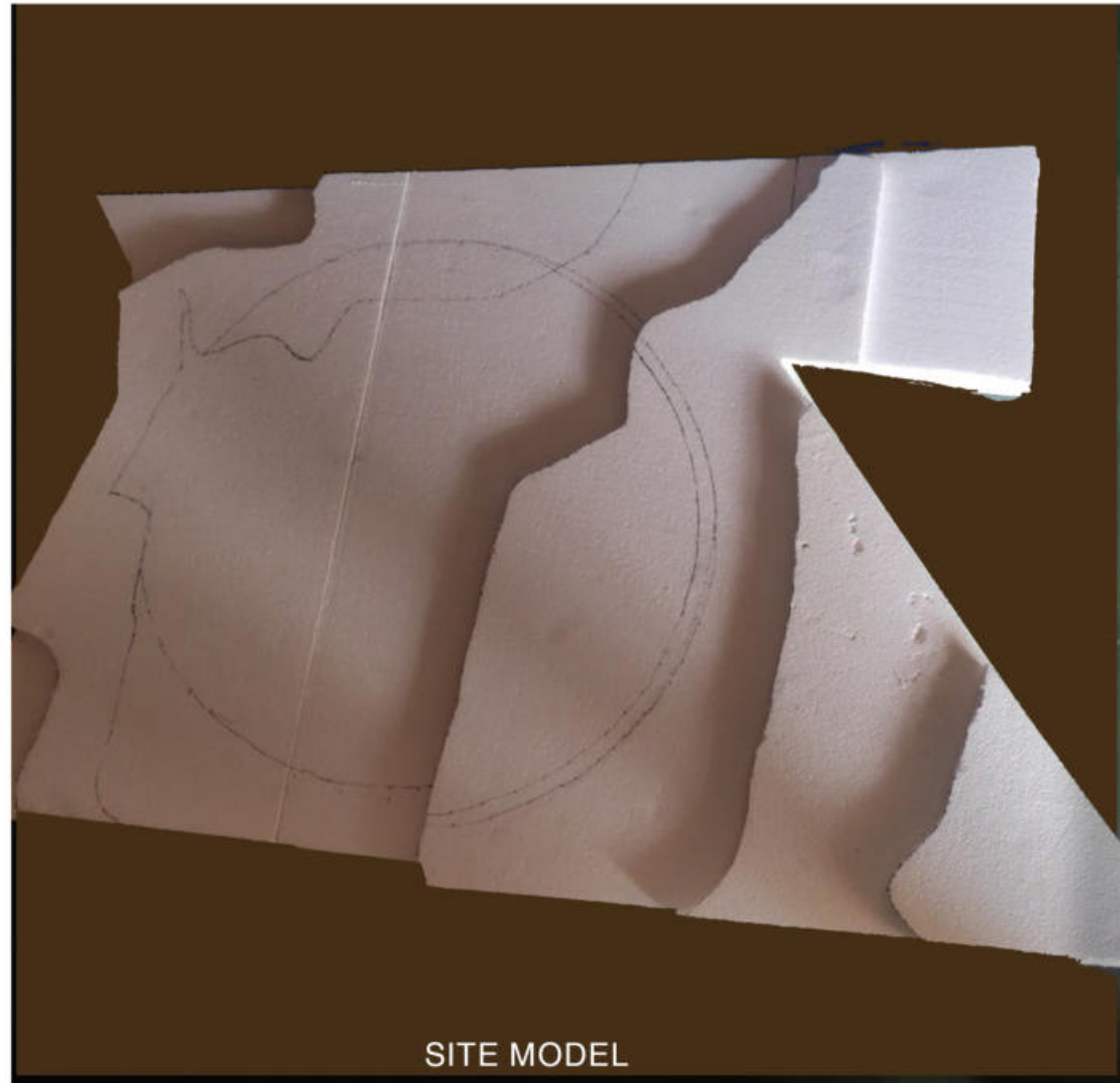
Architecture and Material Research Lab is a large scale project of 11,550 sq.ft. It's place for architects to experience all the materials practically, before executing in site. The main idea is to consider the laboratory space with the height clearance for the tractor to entre.

Vinu sir had a idea for conducting workshops and also had a idea of using the place as office for wallmakers.

Amrl has space like Lab,Amphitheater,OAT,Dormitory,Workspace,Canteen,Kitchen


VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274

Total Built-up Area - 1073 Sq.m
11550 Sq.ft



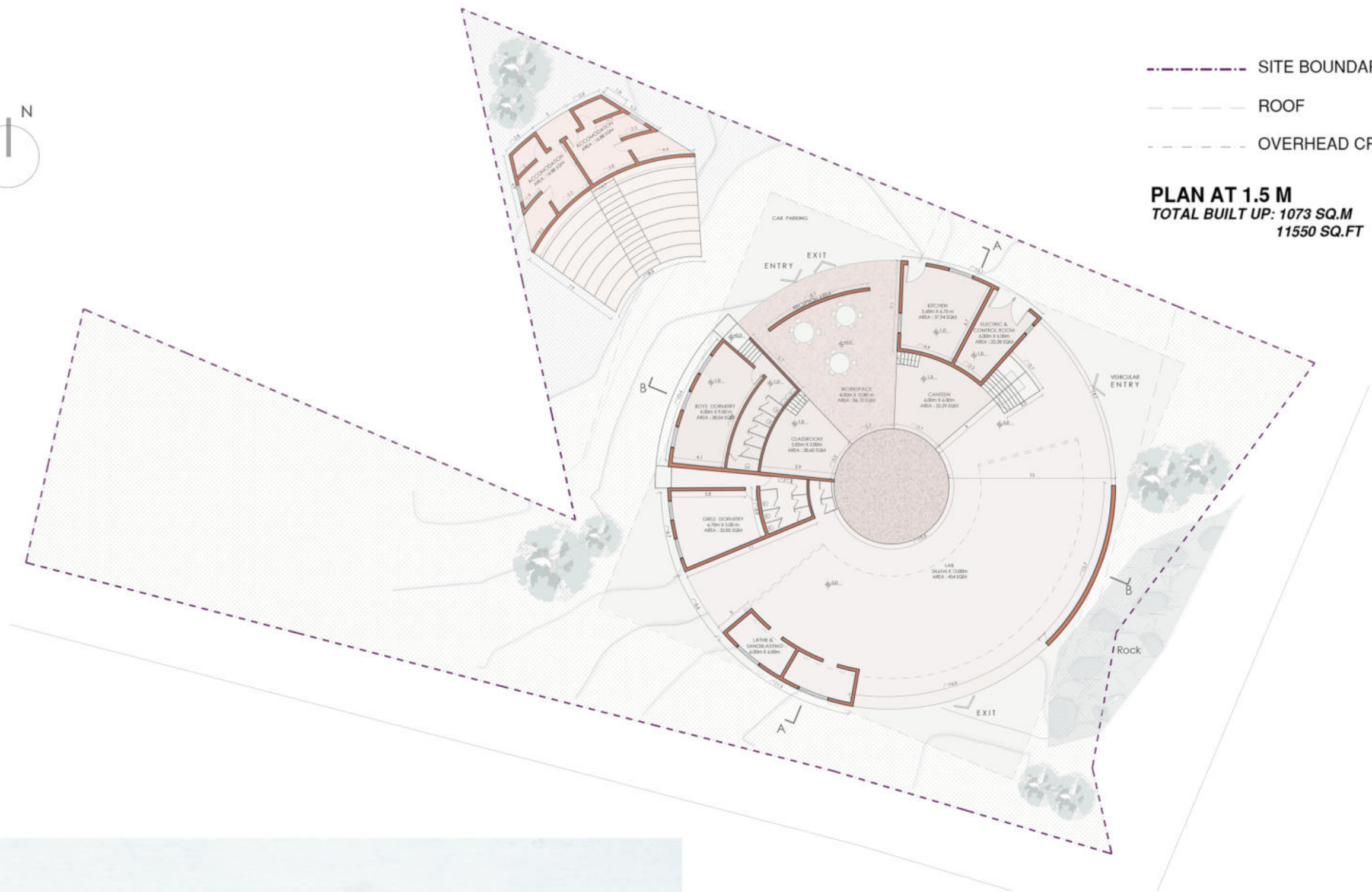
PHYSICAL MODEL

With foam board and thermacol me and Rakshita,
did a physical model in 1:75 scale.

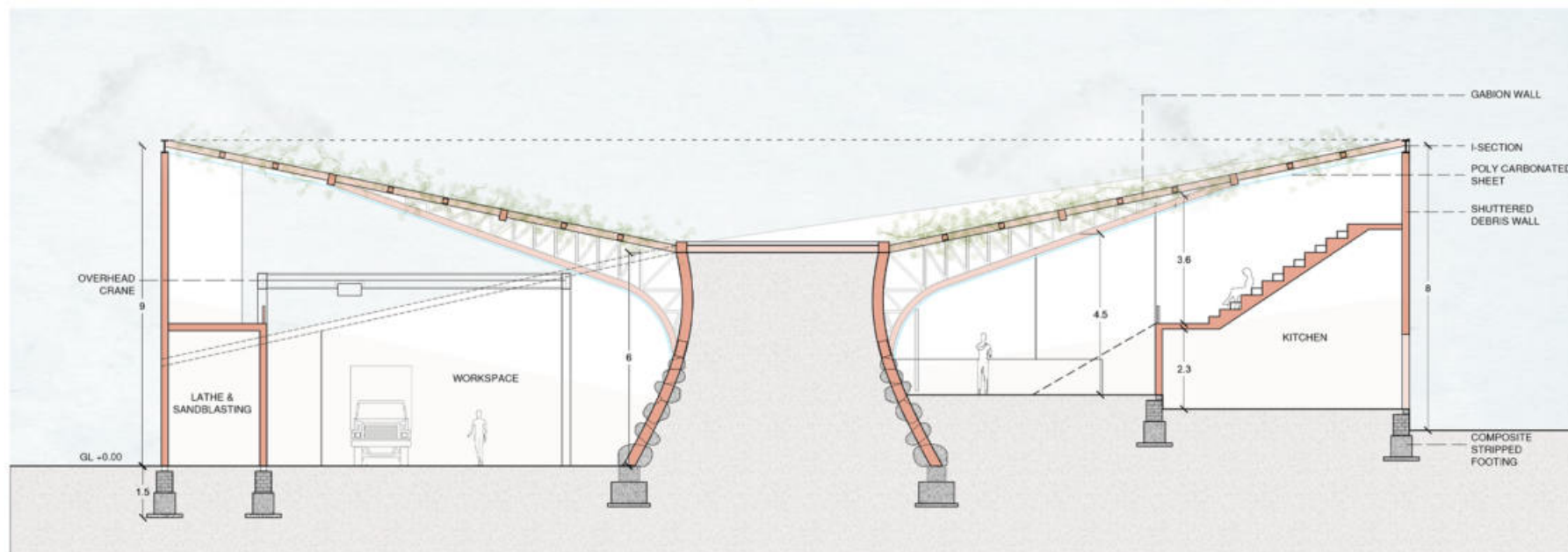


- SITE BOUNDARY
- ROOF
- OVERHEAD CRANE

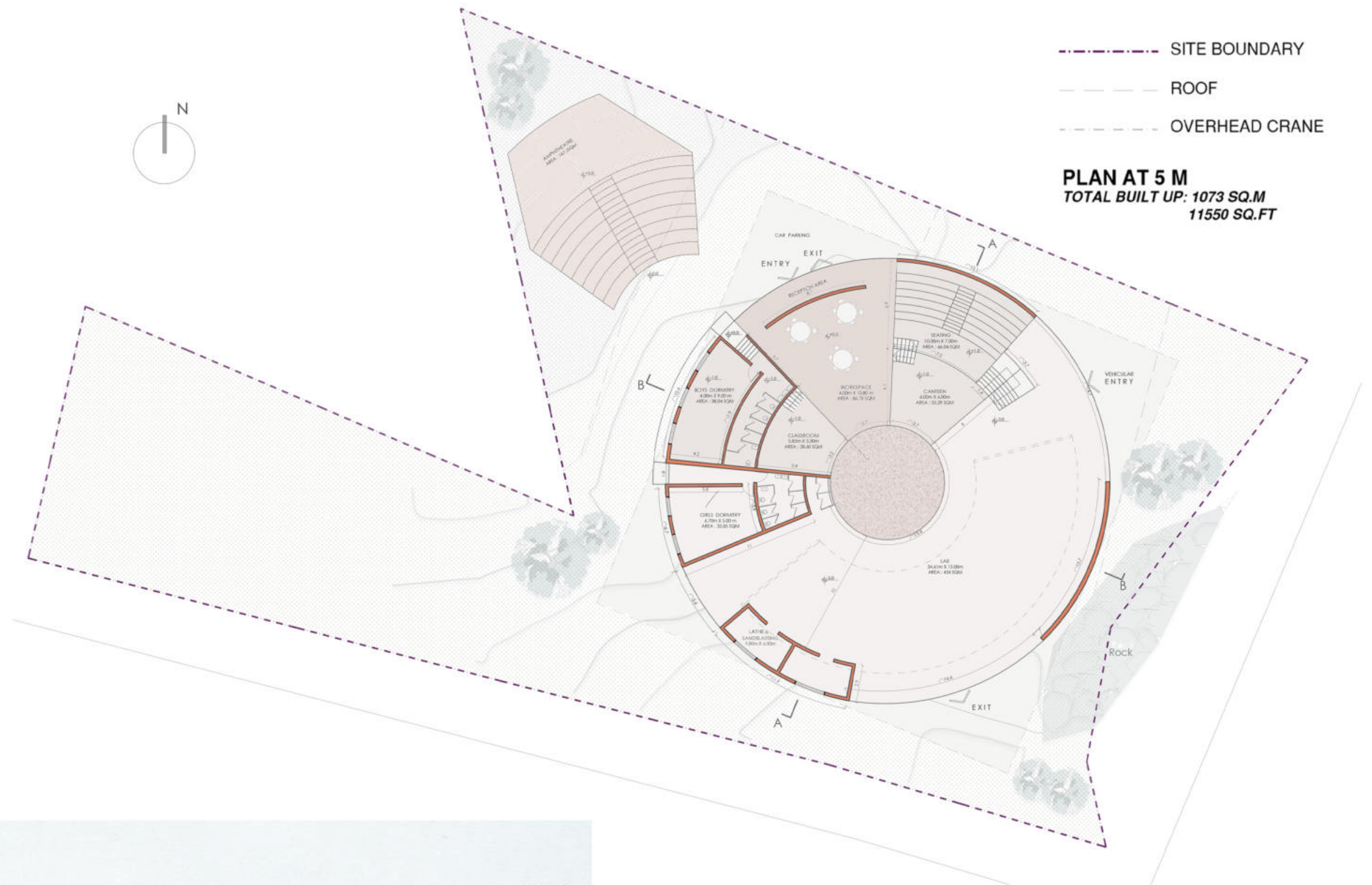
PLAN AT 1.5 M
TOTAL BUILT UP: 1073 SQ.M
11550 SQ.FT



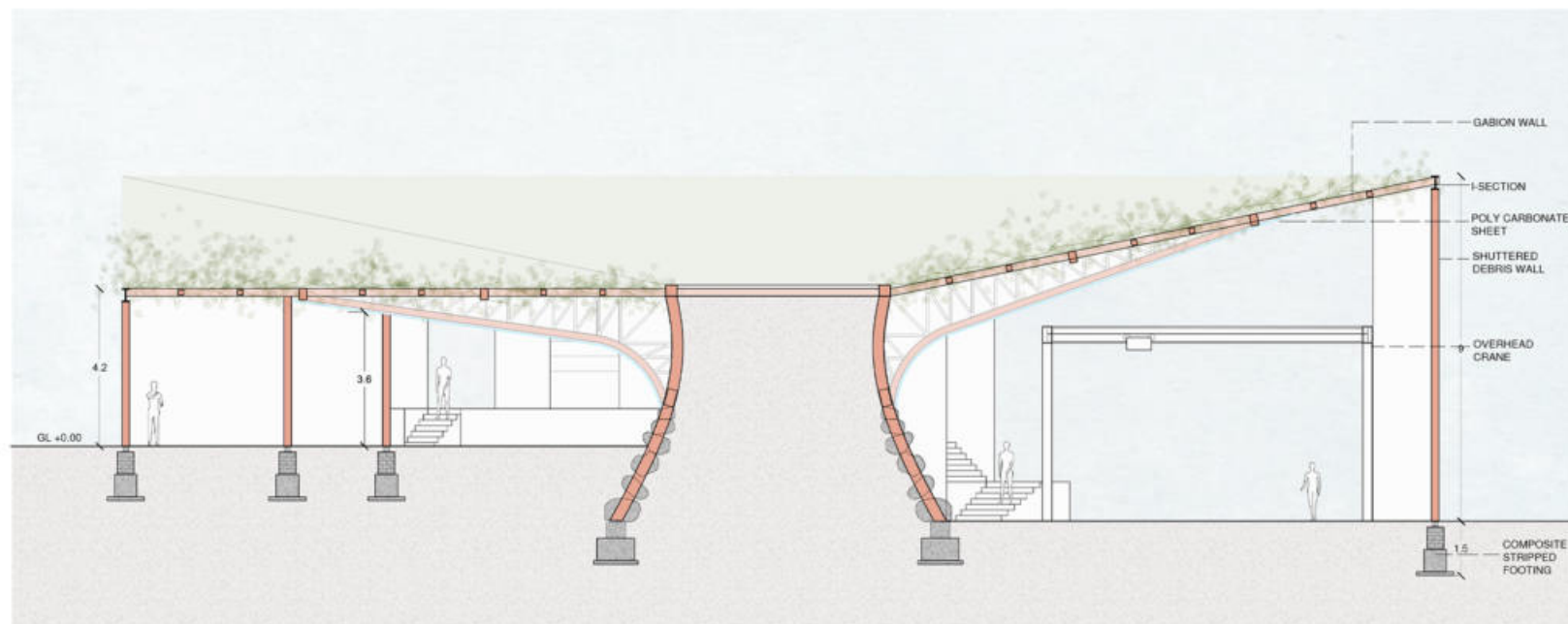
SECTION AA'



Vinu Daniel
VINU DANIEL
 REGISTERED ARCHITECT
 CA/2007/40274



SECTION BB'



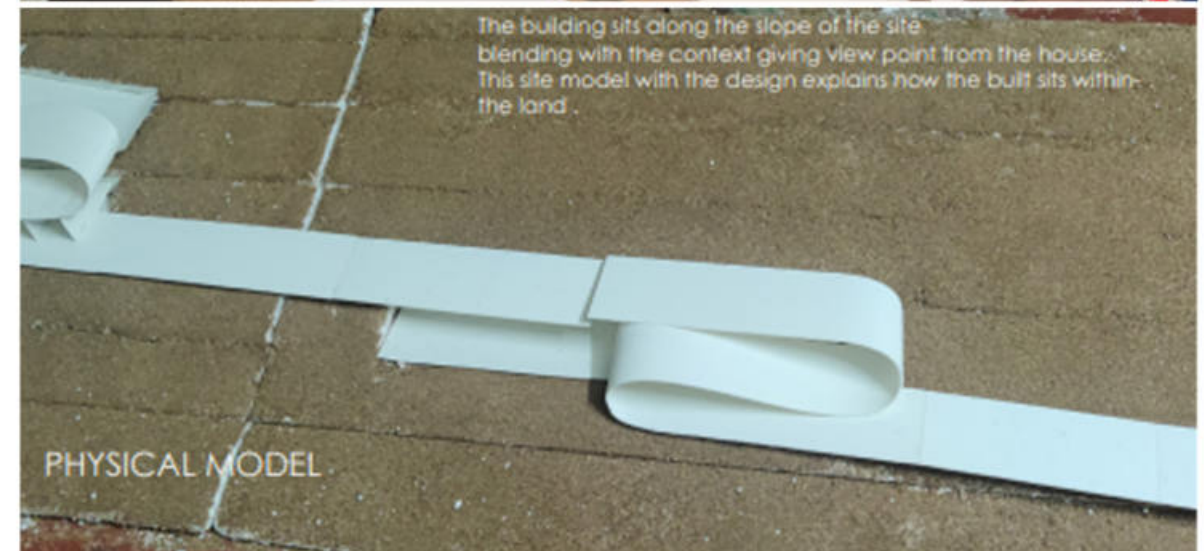
VINU DANIEL
 REGISTERED ARCHITECT
 CA/2007/40274

MANOJ RESIDENCE

This is farm house proposal (5 BHK) ,where the site is surrounded by mountains and has the forest facing behind. Manoj Residence is a project whose concept grew with the idea of building spindling and merging with the gentle slope of the site.

The building's components are going to be entirely made of poured earth. Poured is made with soil available on site and other additives like cement , M. Sand and aggregate. This residential building consists of 5 bedrooms, a home theater and a swimming pool making the area a total of 9000sqft.

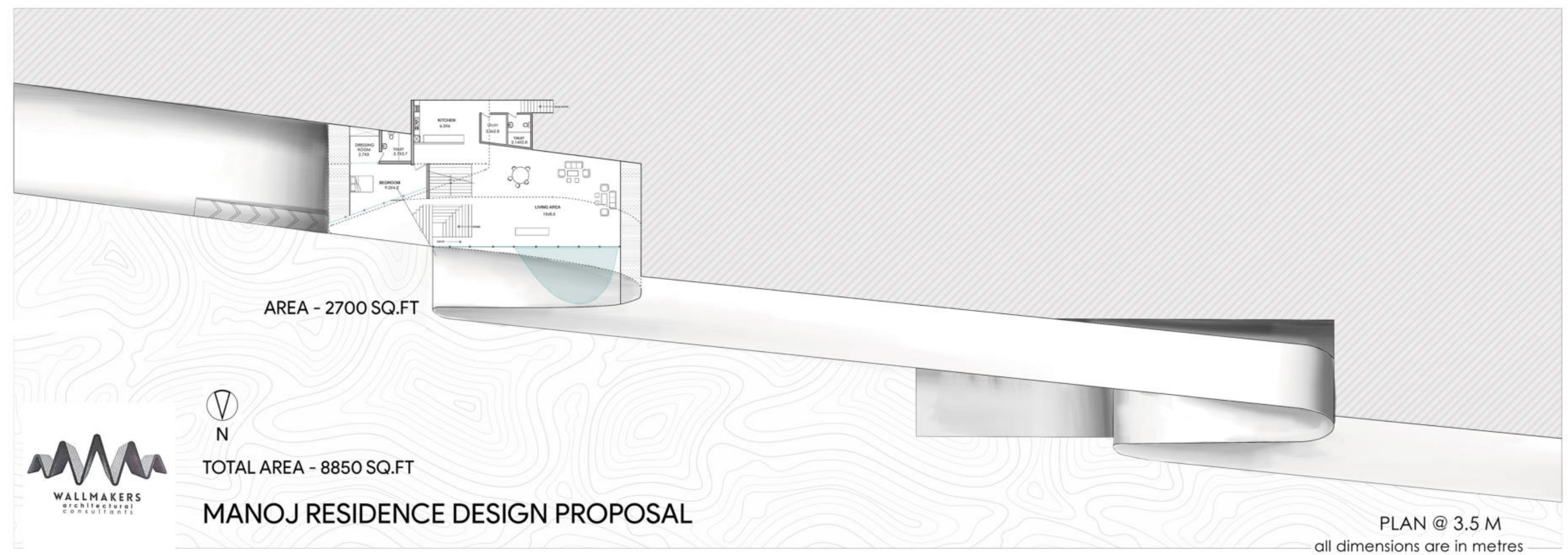
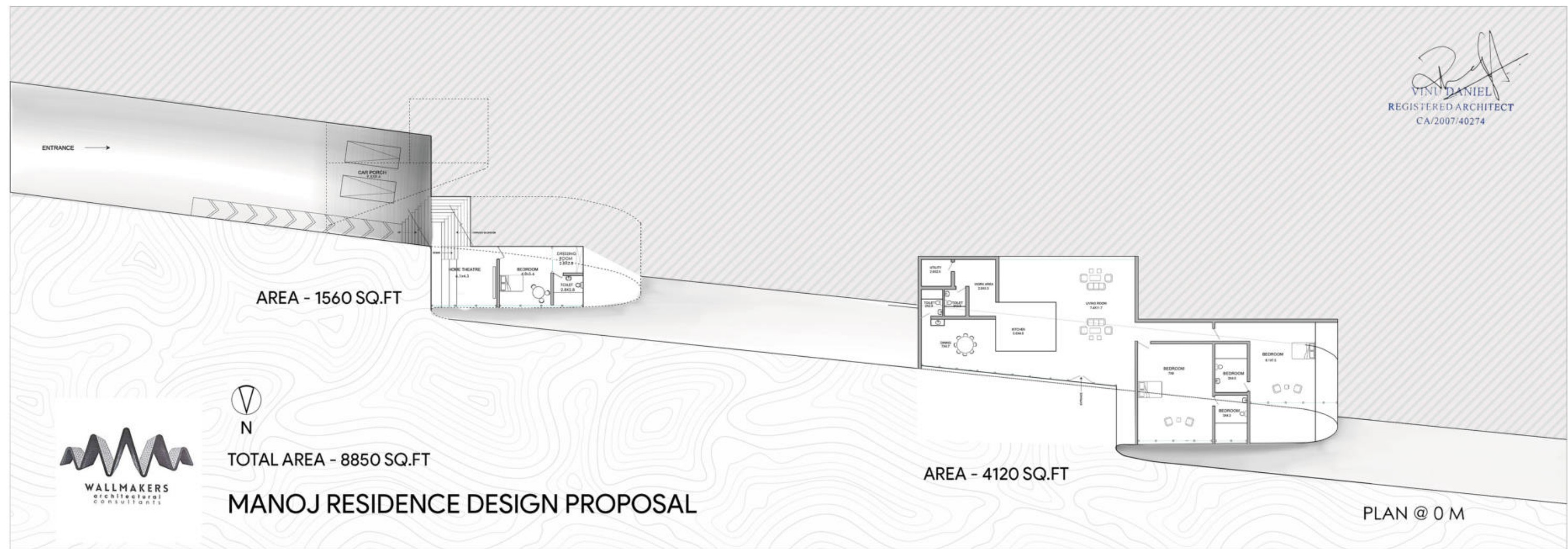
Area- 3,92,040 sq ft (9 acres)-plot,
9000 sq ft- Built up

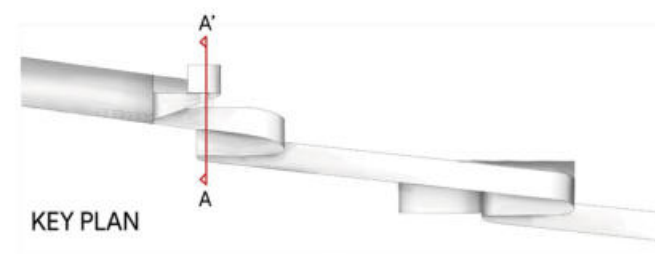
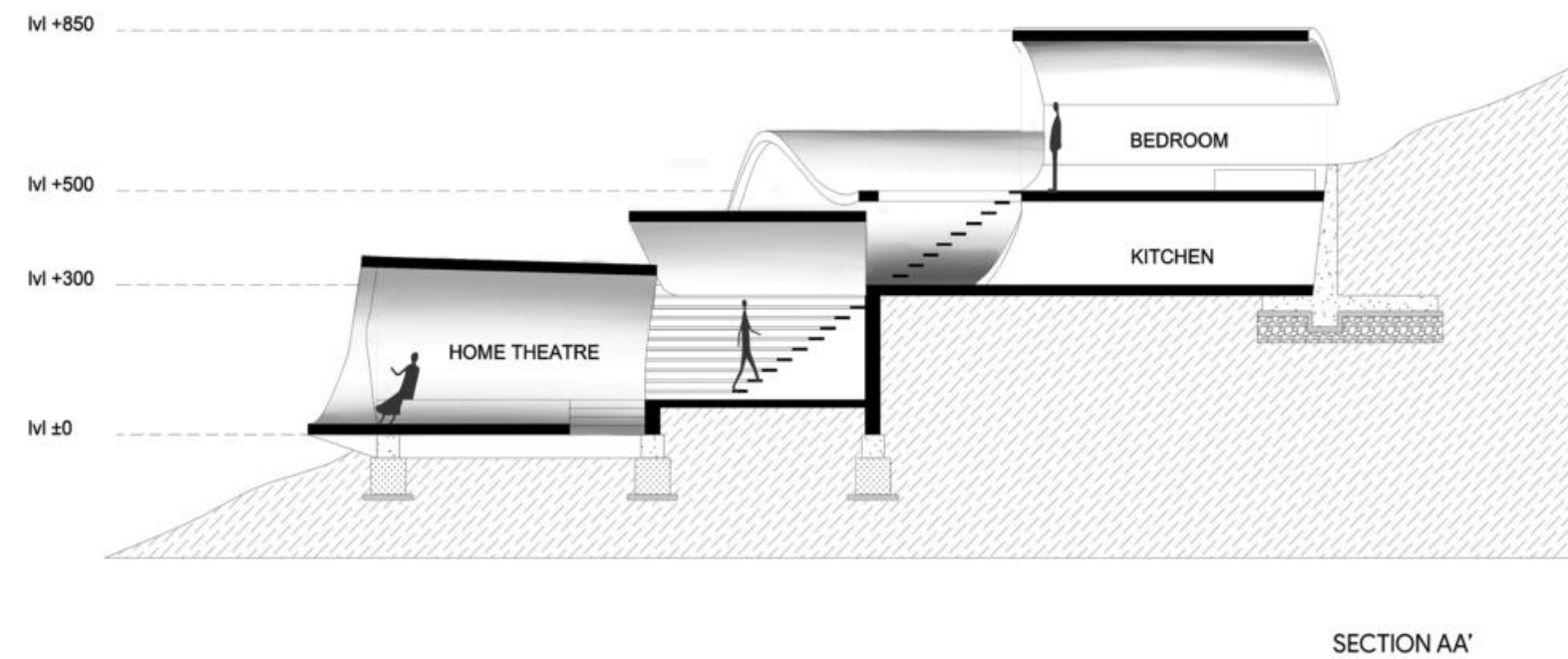
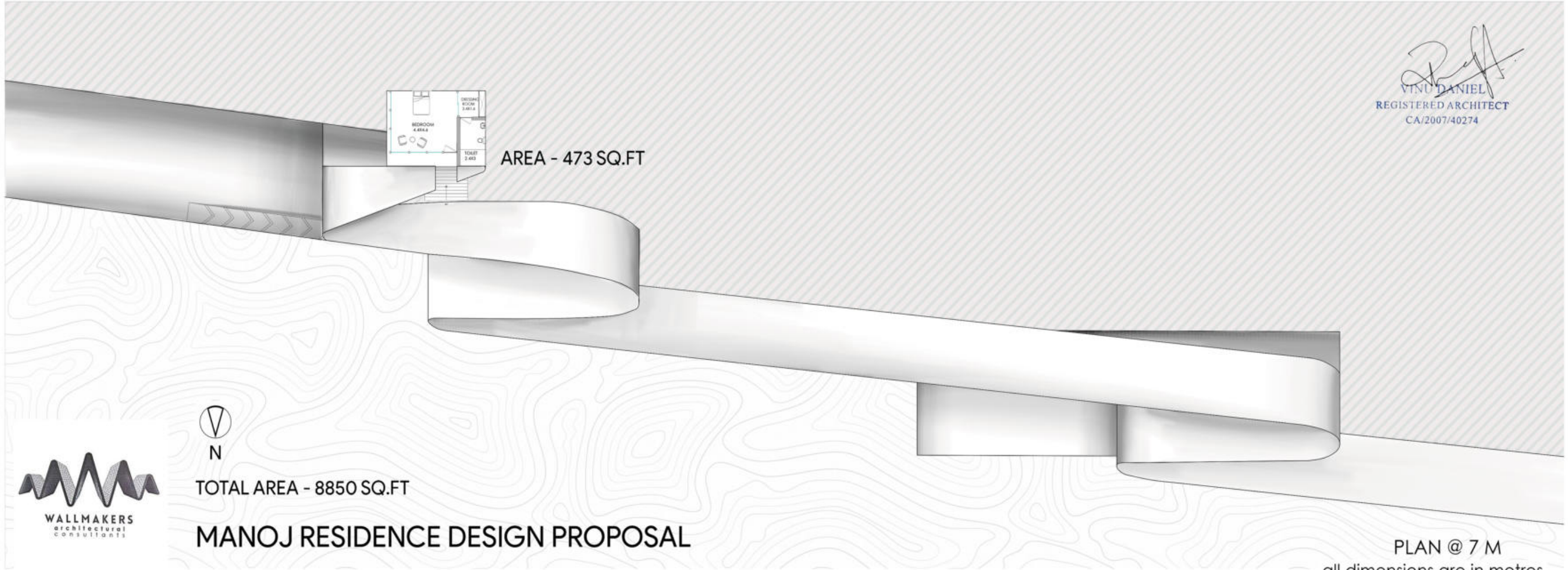


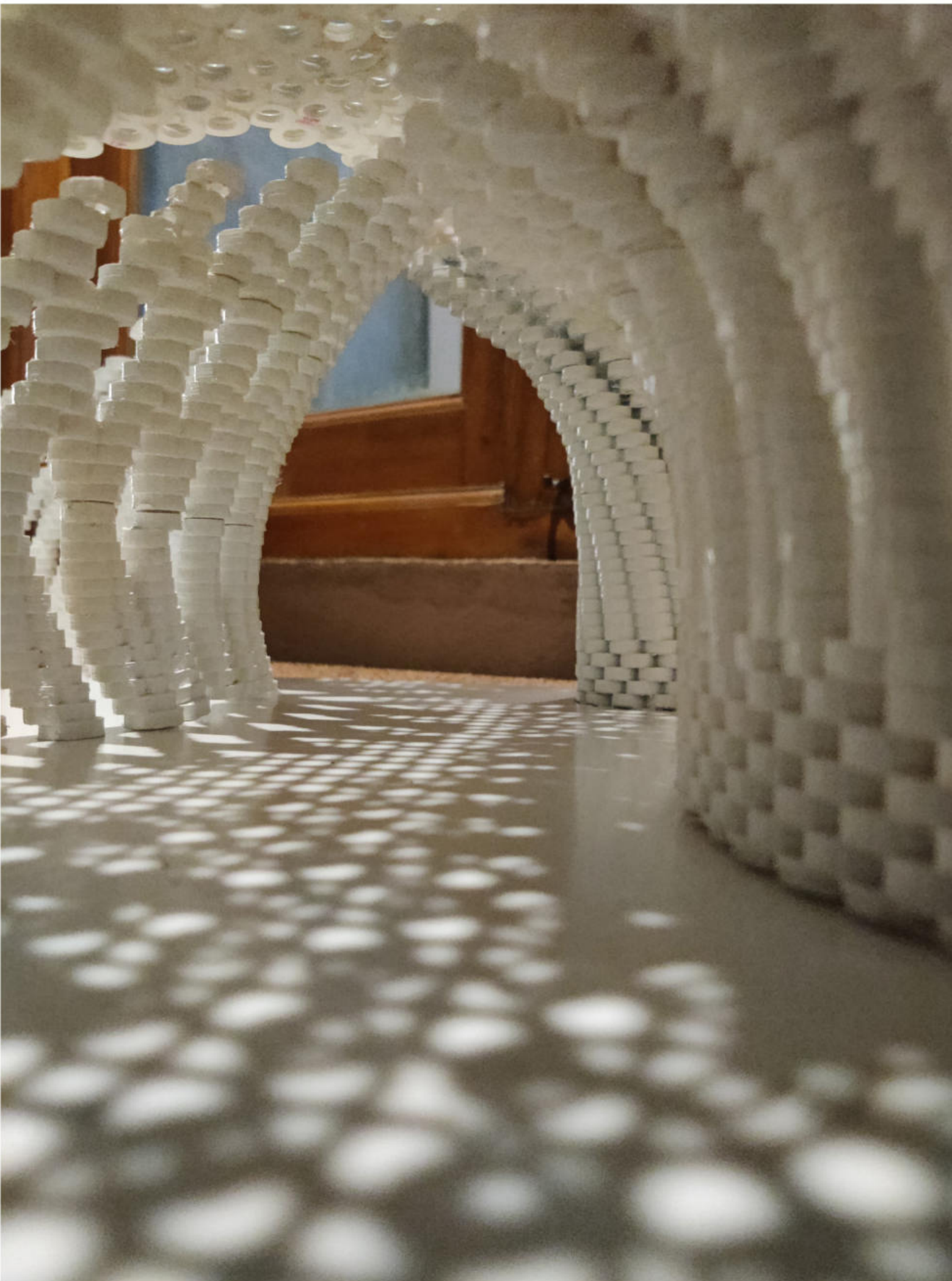
The building sits along the slope of the site blending with the context giving view point from the house. This site model with the design explains how the built sits within the land.

Manoj Residence is a project which is going to come in Berigai, near Shoolagiri. Models and sheets were made for presentation and I worked on physical model.

VINU DANIEL
REGISTERED ARCHITECT
CA/2007/40274







SPB MEMORIAL MUSEUM

A Memorial Museum for the late S. P. Balasubramanyam is going to be built in Chennai. The Museum is going to be made out of waste tyres.

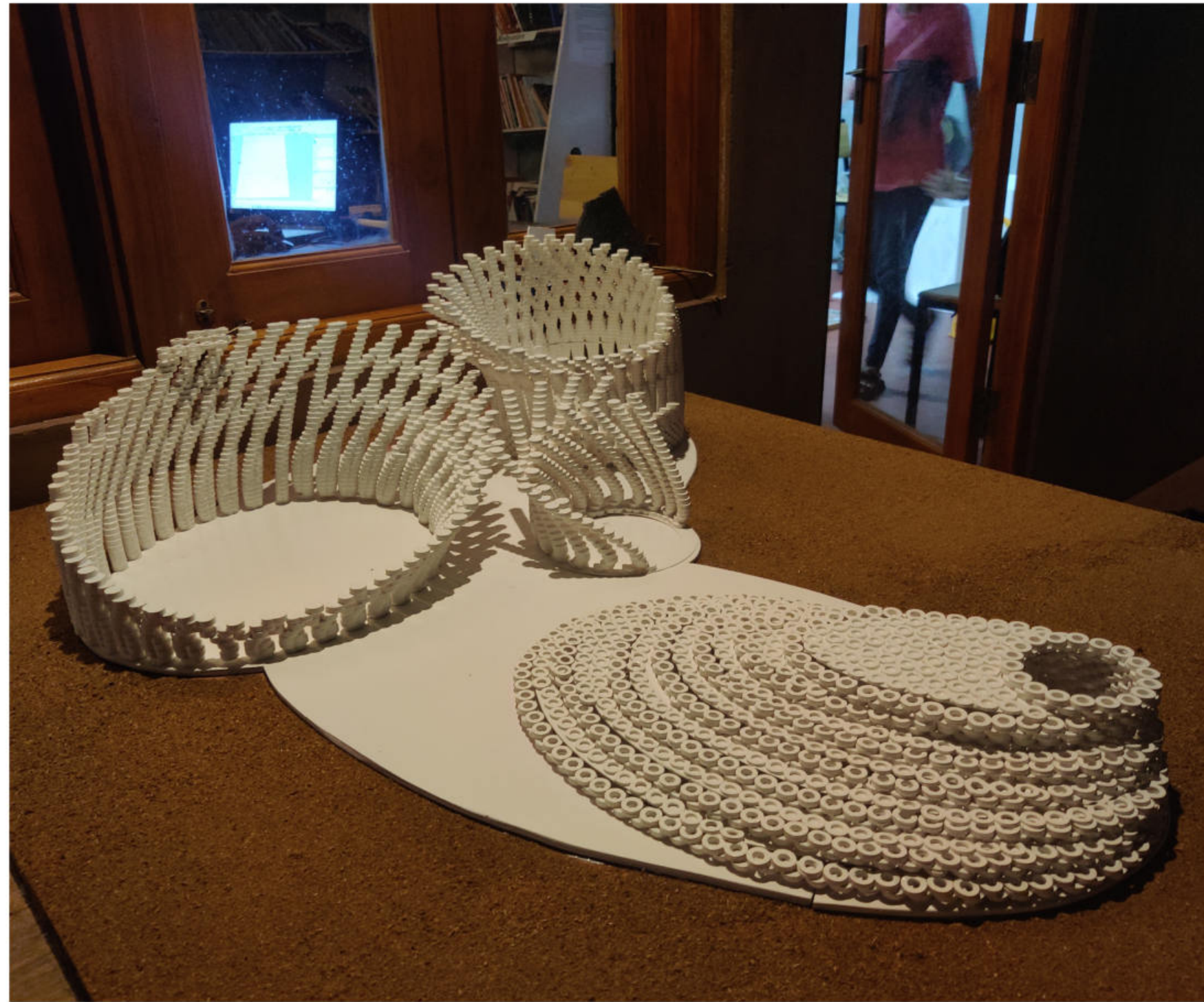
India discards 2.75 lakh tyres daily, 1.7 lakh waste tyres are dumped into our country from around the world daily.

This museum will be built out of 10,720 waste tyres.

I have worked on the physical model for the design proposal



Showcasing the S.P.Balasubramanyan Memorial to A.R.Rahman



Most of the model is 3D printed. The roof and amphitheatre is manually done



CRITICAL OVERVIEW:

Interning at Wallmakers was a great opportunity for me to learn more about sustainability and also to explore natural materials. I had good seniors who helped and guided me throughout my internship. In wallmakers I had a great opportunity to work on-site. In the 1st few weeks it was tough and challenging to manage both drawing works given by my seniors and site works simultaneously, but later I got managed. I worked on various projects which made me gain knowledge in various scales.

More than fieldwork I also had the opportunity to travel to different places. I dealt with various vendors and procurement guys. There were different buildings at the sanctity farm by wallmakers which were marvelous, I questioned my principal and senior architect and they explained to me how it is built. Not only my seniors but indeed the masons and welders working on-site helped and thought me all the practical work done on the site. I always like to show my gratitude to them for being so kind and helping me to overcome many challenges on site.

Still, I remember on day one I worked on very basic carpentry drawings, and slowly I improved and did electrical and foundation drawings and I also learned to manage the people working on the site by separating the work and giving it to them. I was freely allowed to design and implement them on-site with my principal architect's acknowledgment.

The main thing I learned in wallmakers is however the situation is out of control we have to manage and overcome it for any cause as a site in charge.

It was a very different experience to stay on the farm and live an eco-friendly life. The firm not only trains me but also made me think about why we use only cement and steel for construction, instead, we have a scope with mud construction which is still aesthetically soothing.

Having completed my internship at wallmakers, I can say that whatever we build we can do without destroying the surrounding environment by building sustainable houses.

