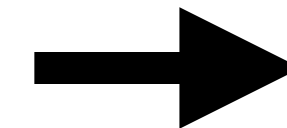


EL INESPERADO ROL
DEL **MODELO A ESCALA** EN
ARQUITECTURA CON **BAMBU**

EL INESPERADO ROL
DEL MODELO A ESCALA EN
ARQUITECTURA CON BAMBU

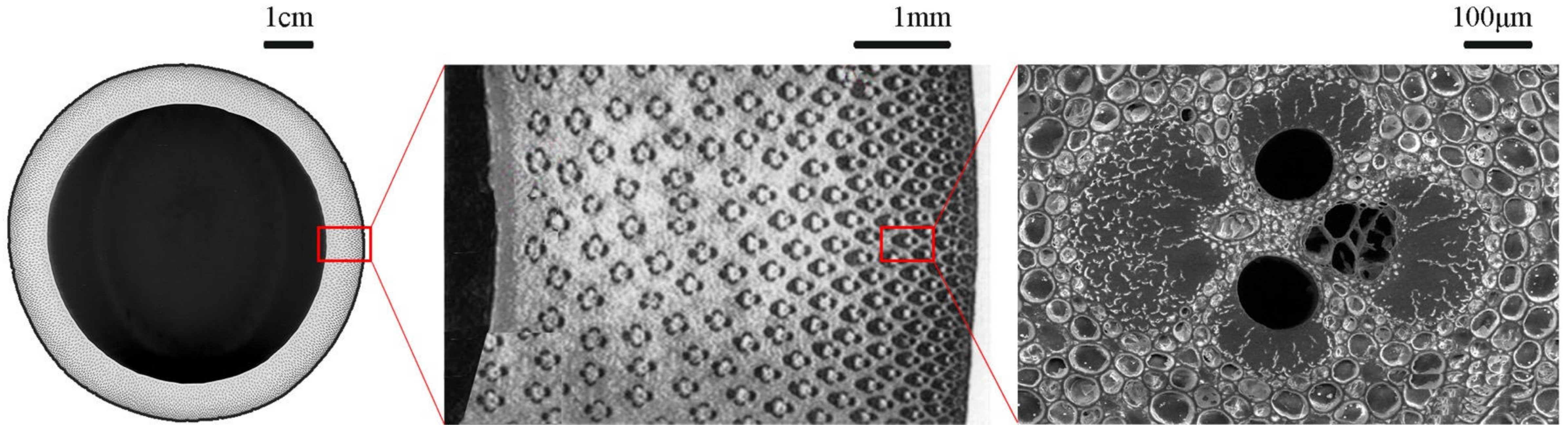
MODELO A ESCALA ~~=~~ MAQUETA

MODELO A ESCALA



1. ¿Cómo usar el bambú según sus propiedades únicas?

2. ¿Cómo acelerar la transferencia de este conocimiento?



a) Sección Transversal

b) Acercamiento

c) Haz Vascular

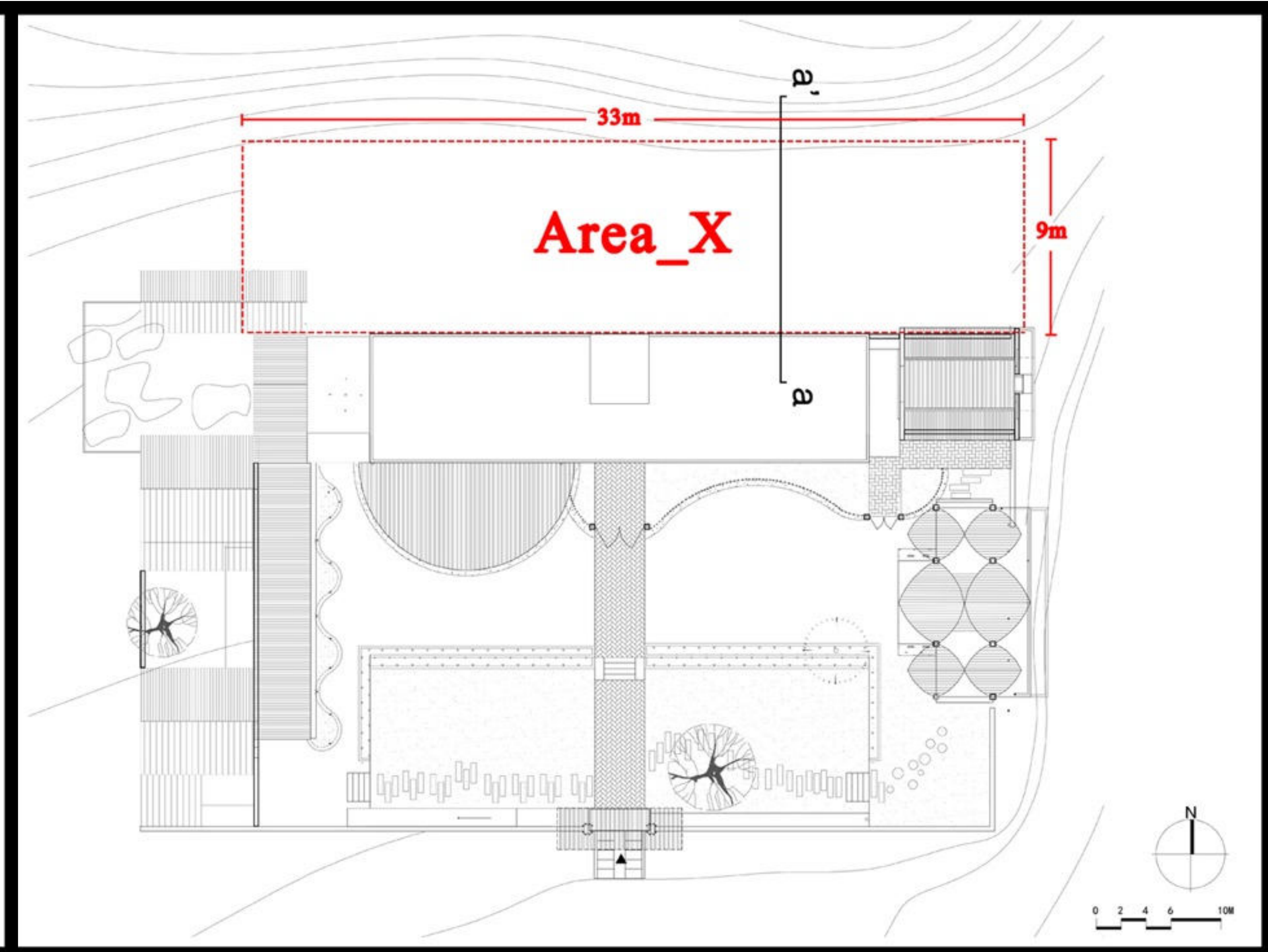
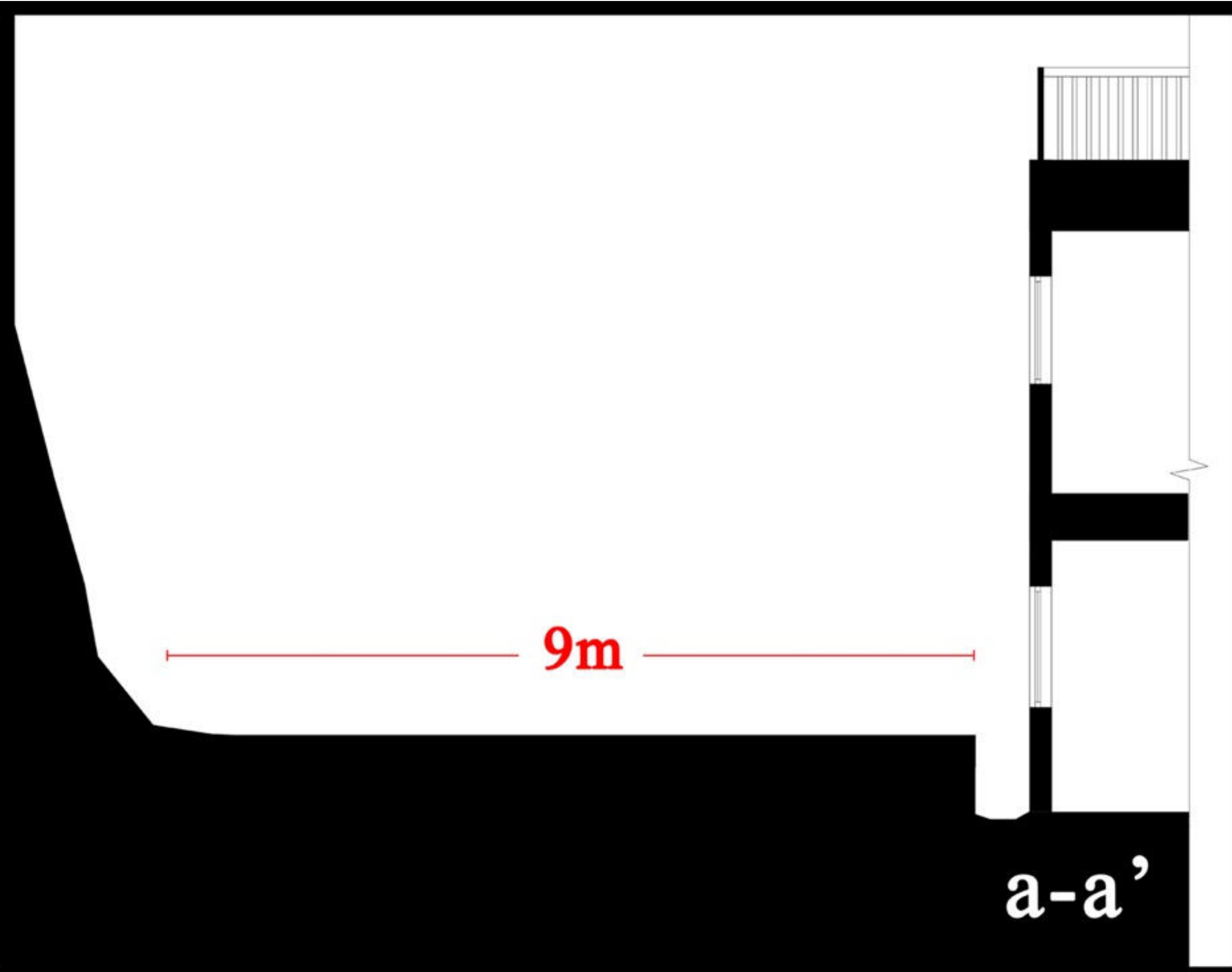


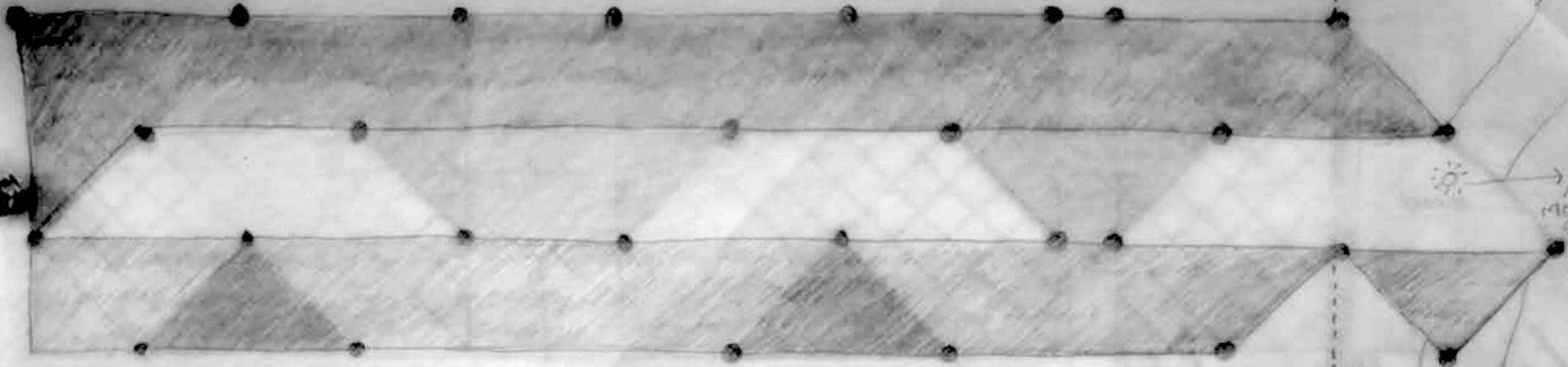




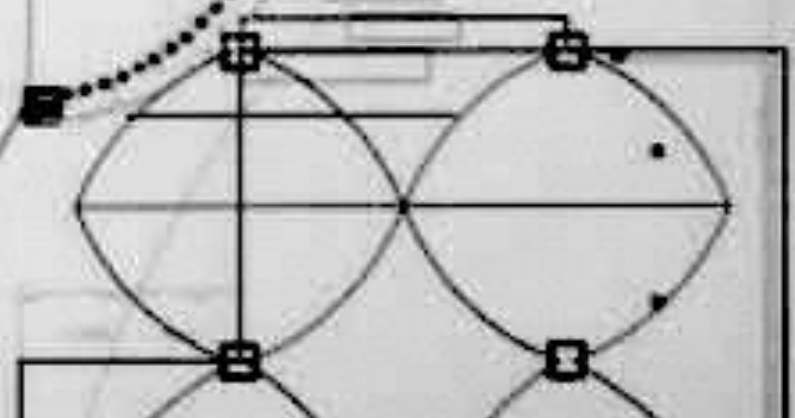
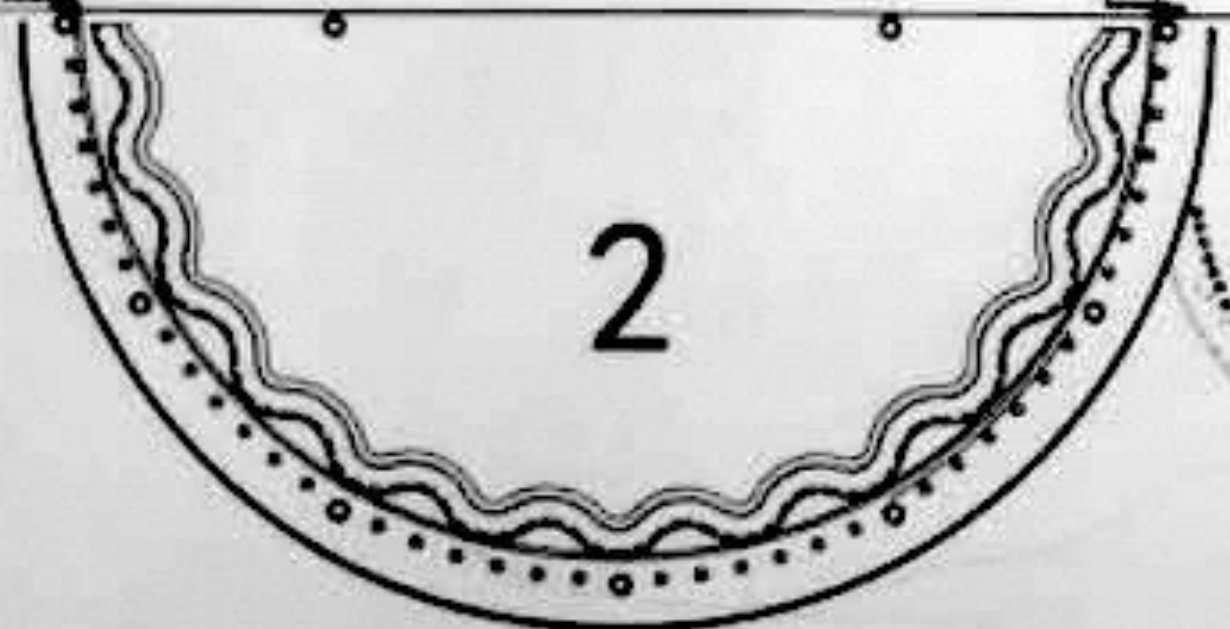
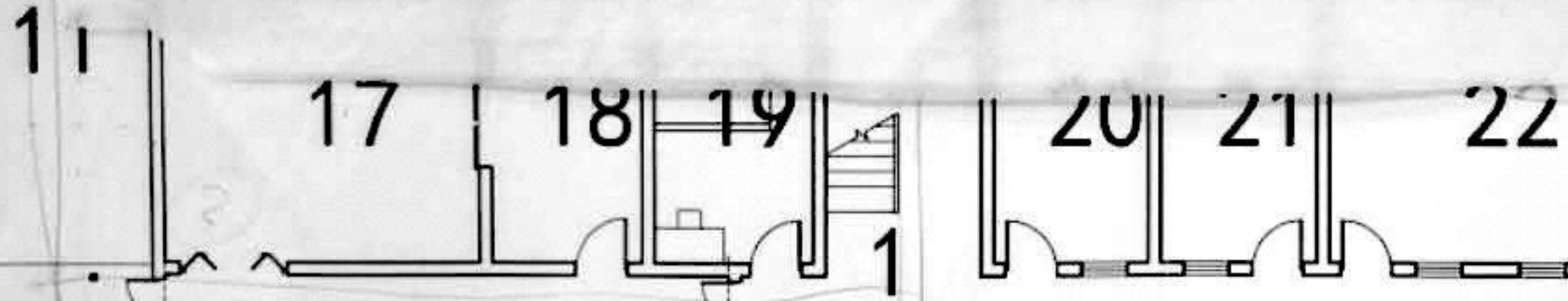


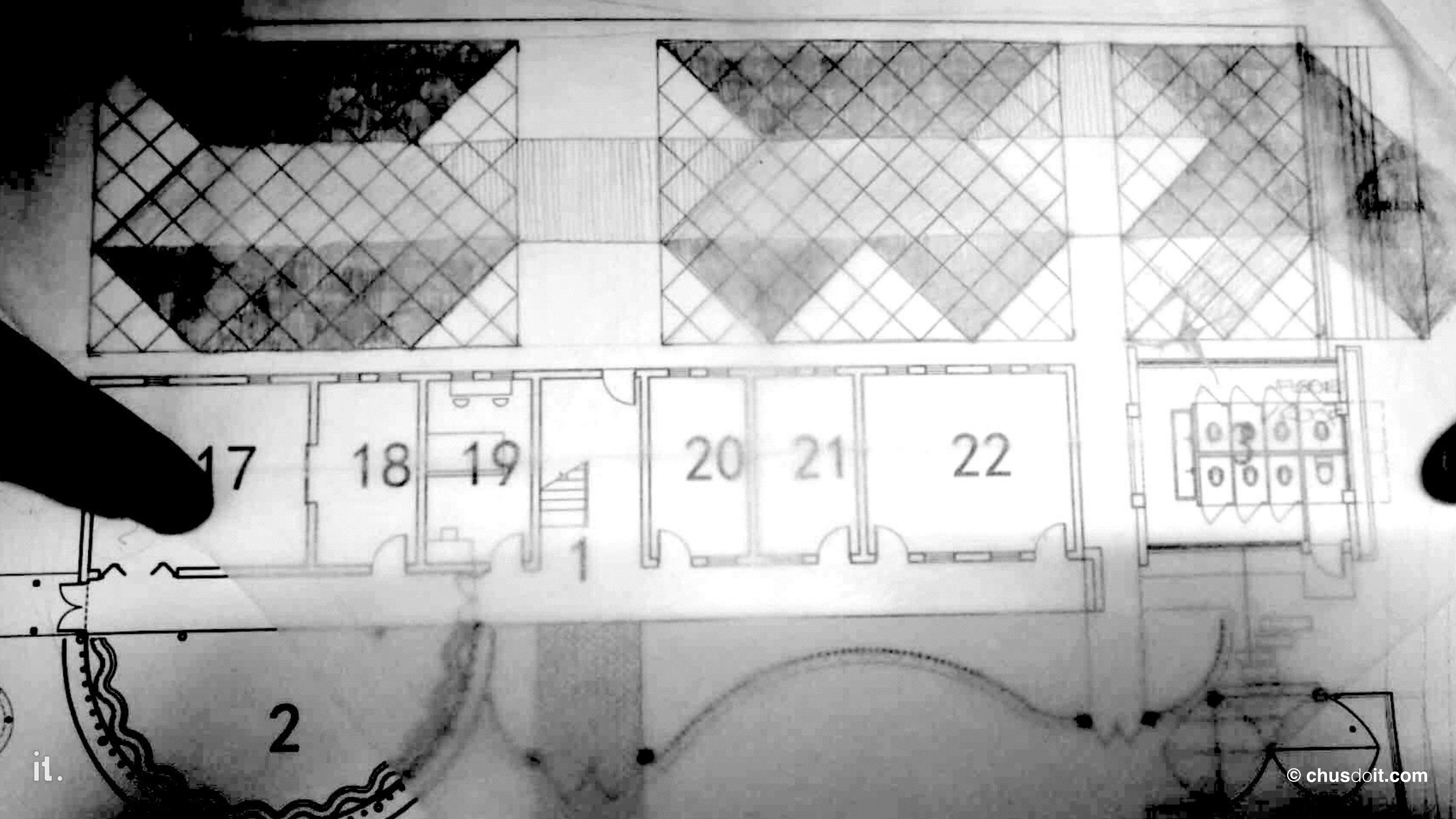






→ EAST
MORNING
SUNSHINE
& VIEW





17

18

19

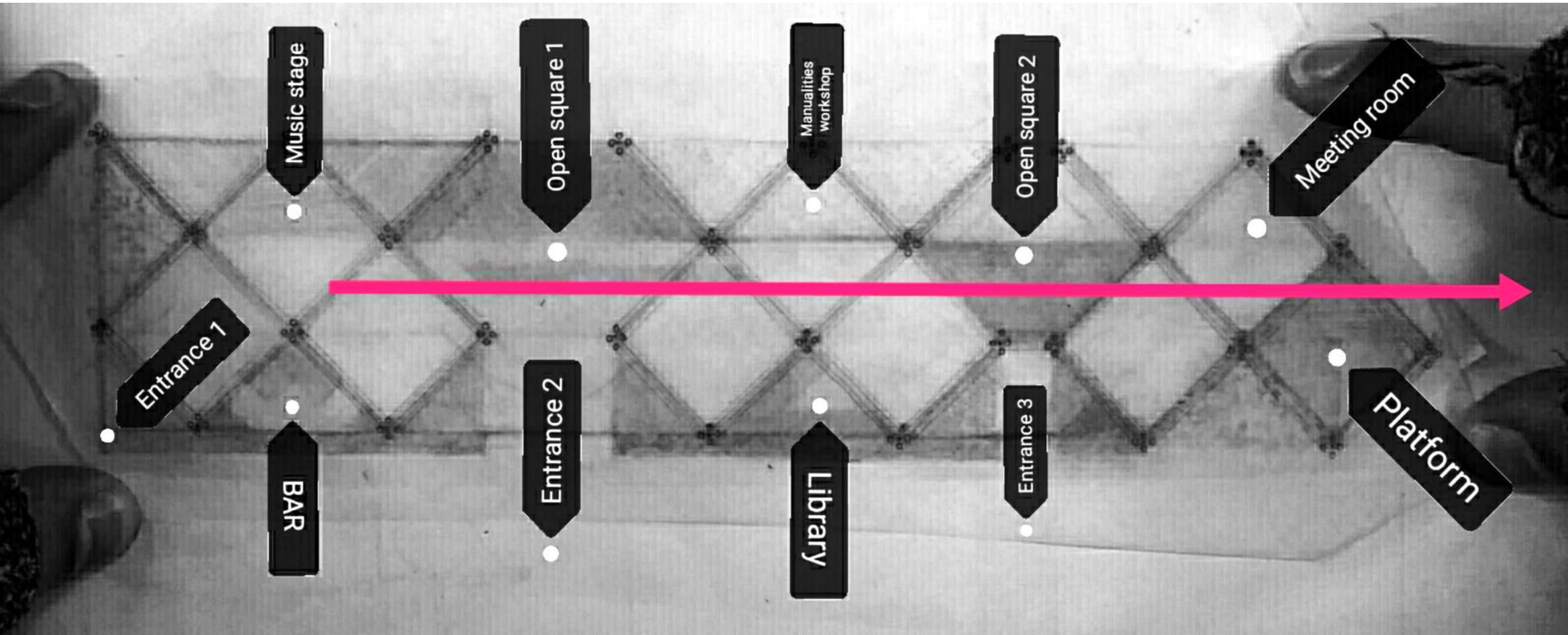
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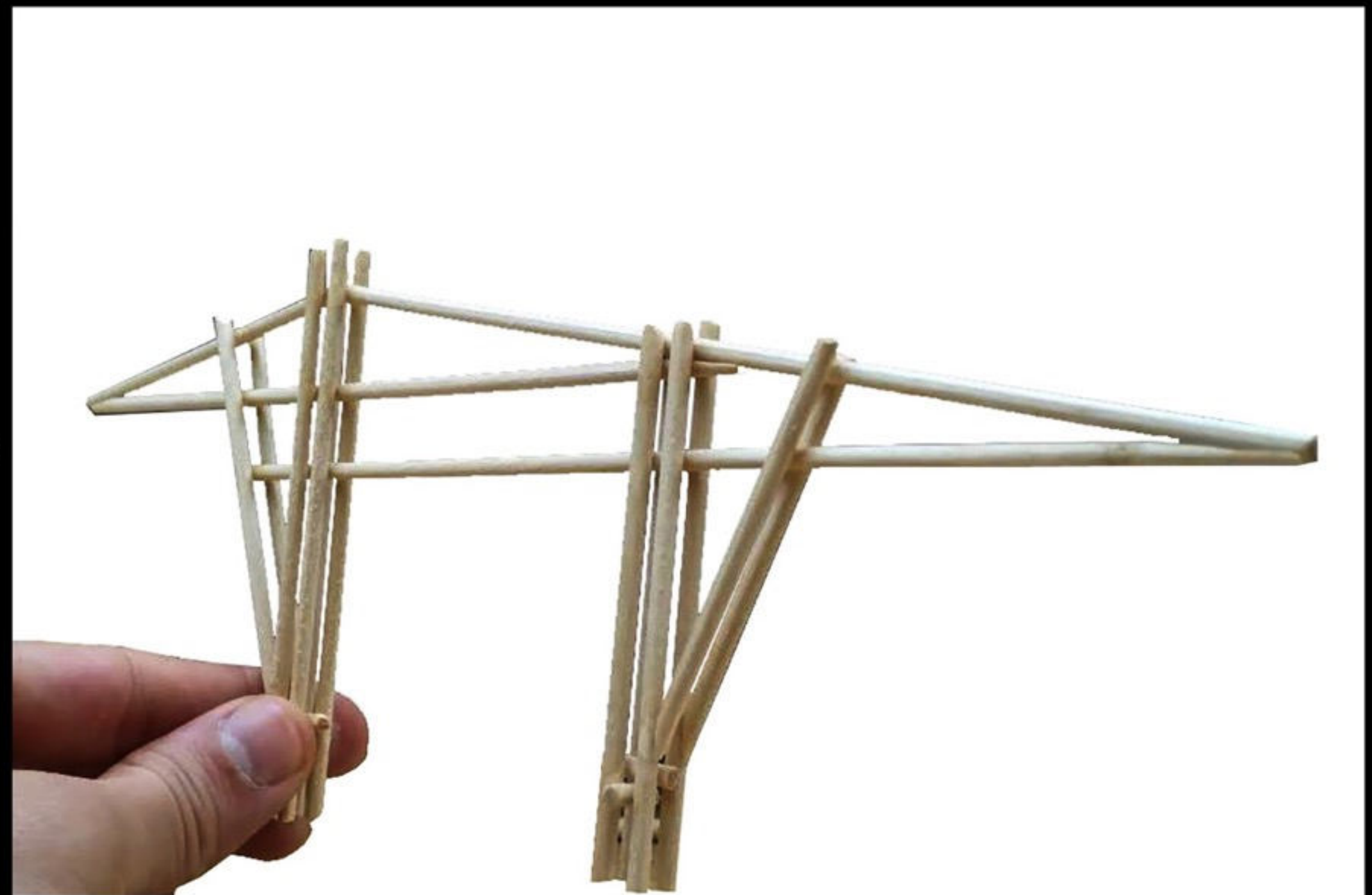
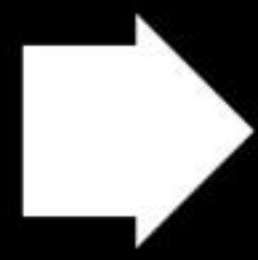
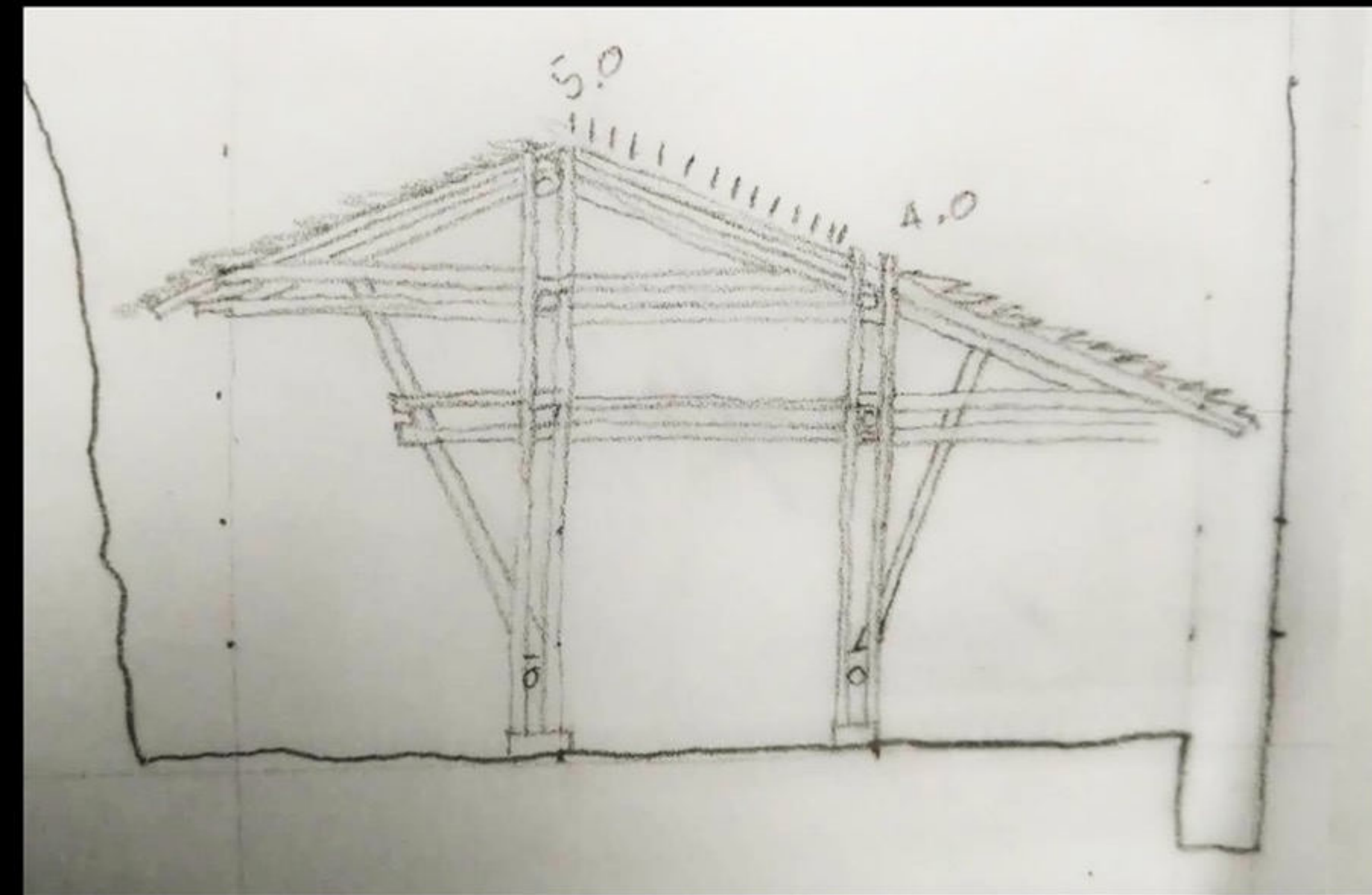
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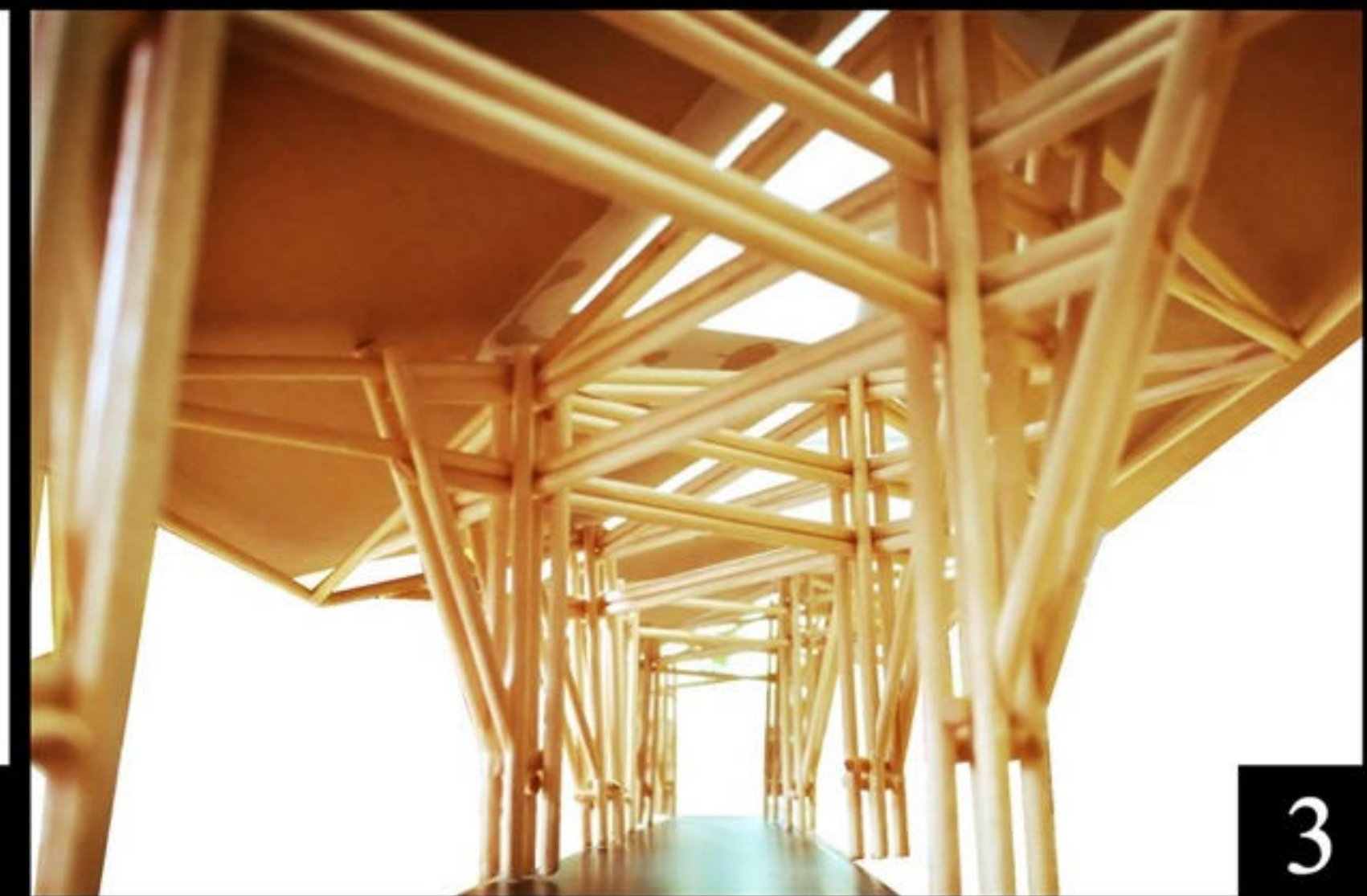
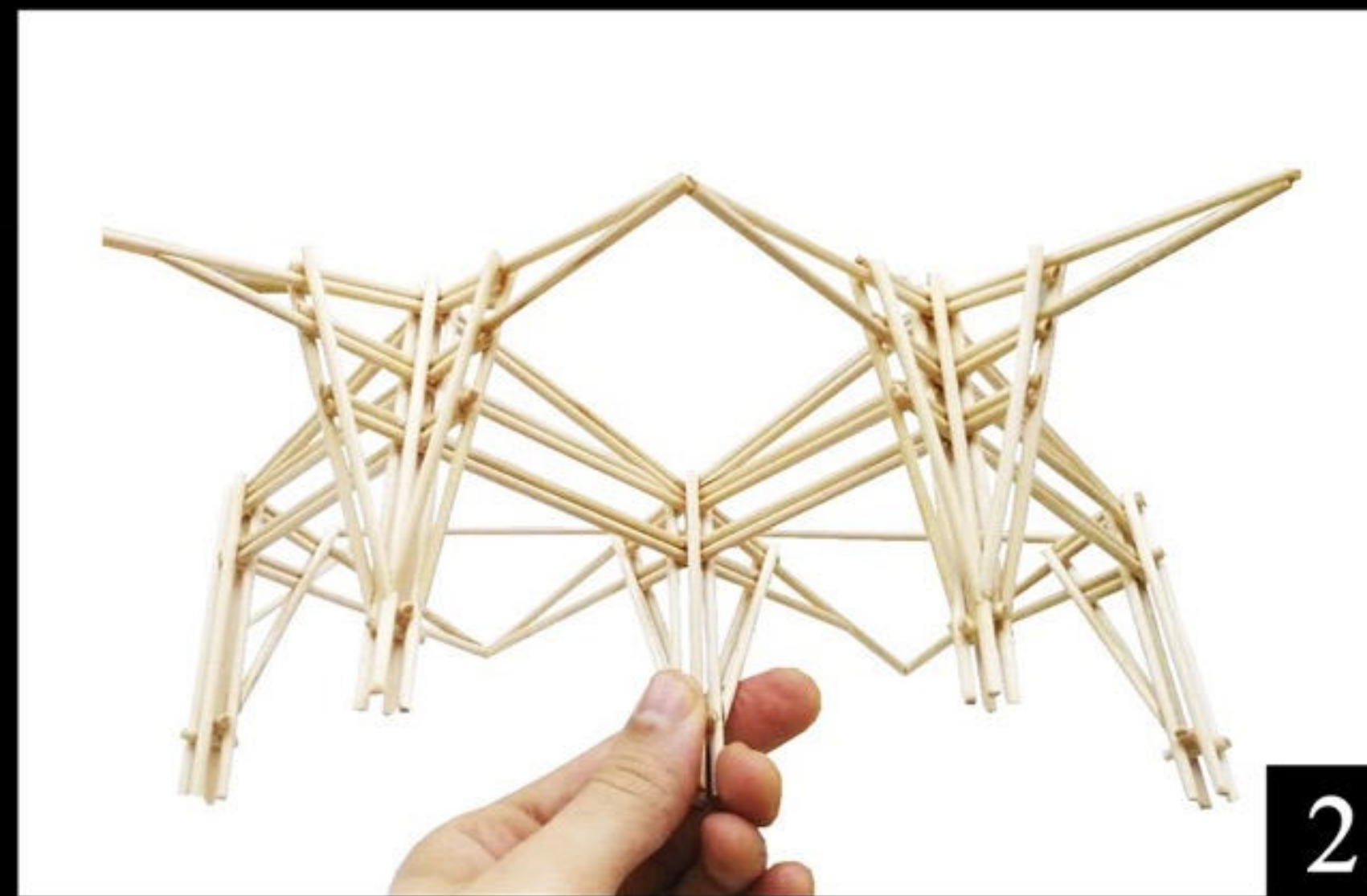
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2

it.

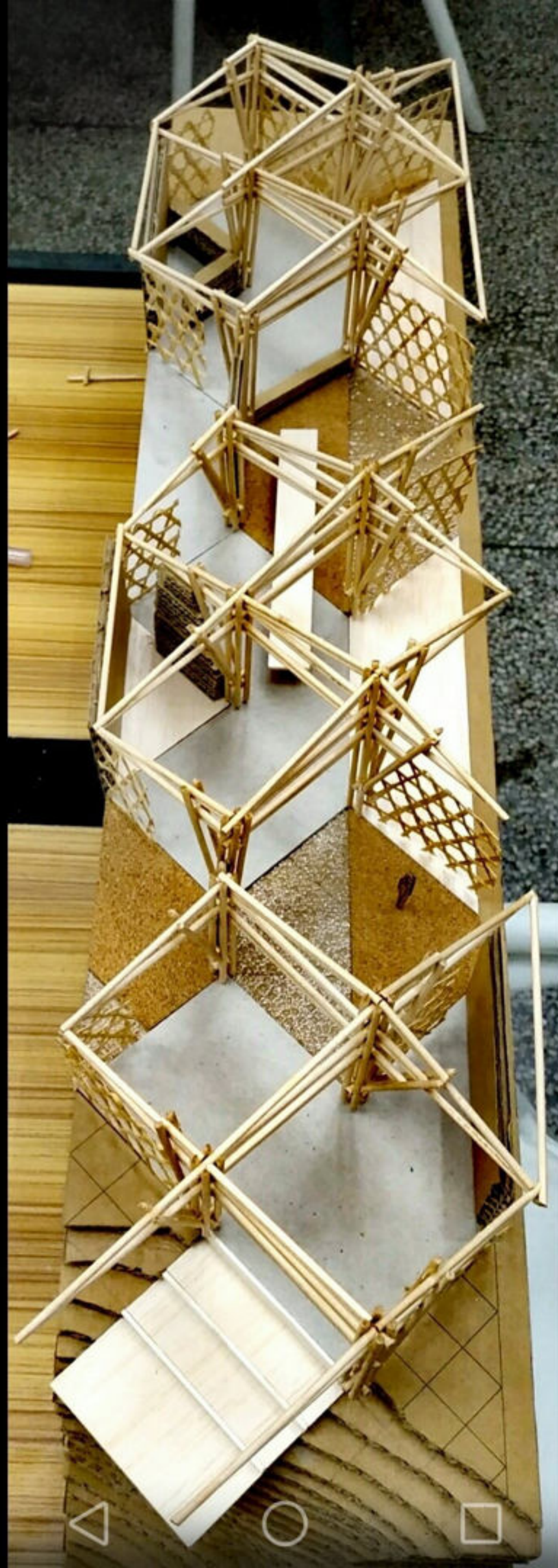


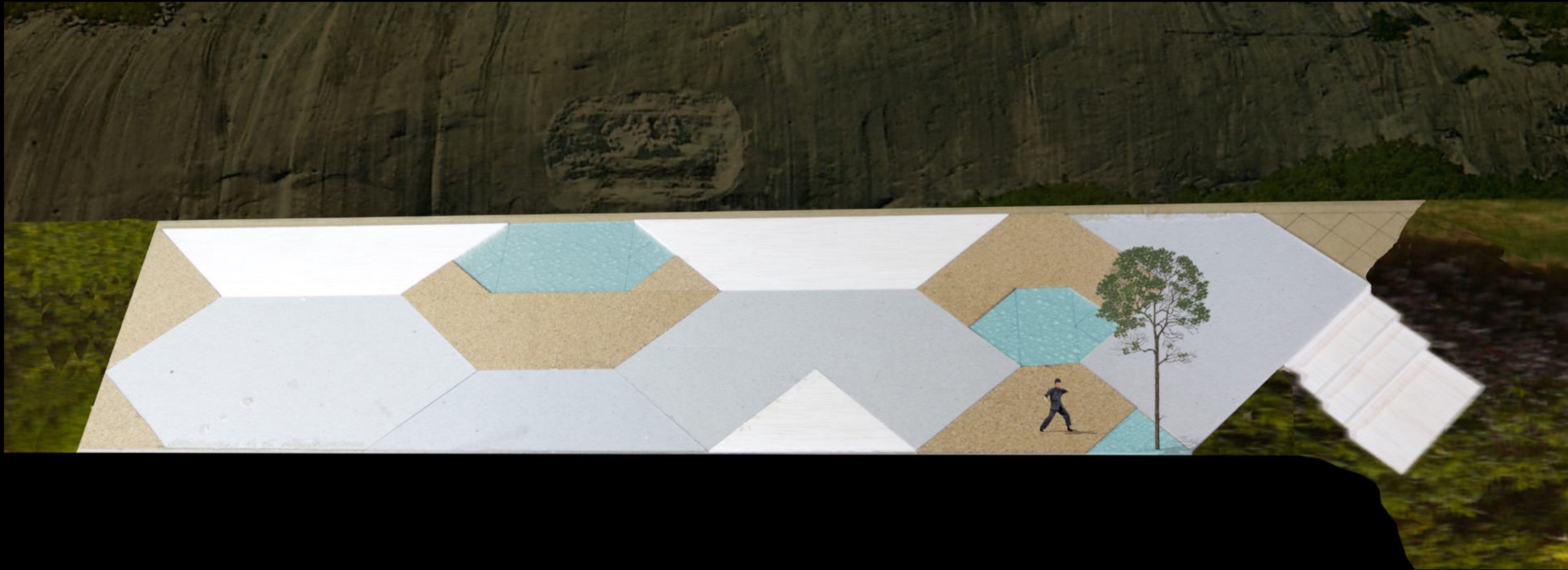


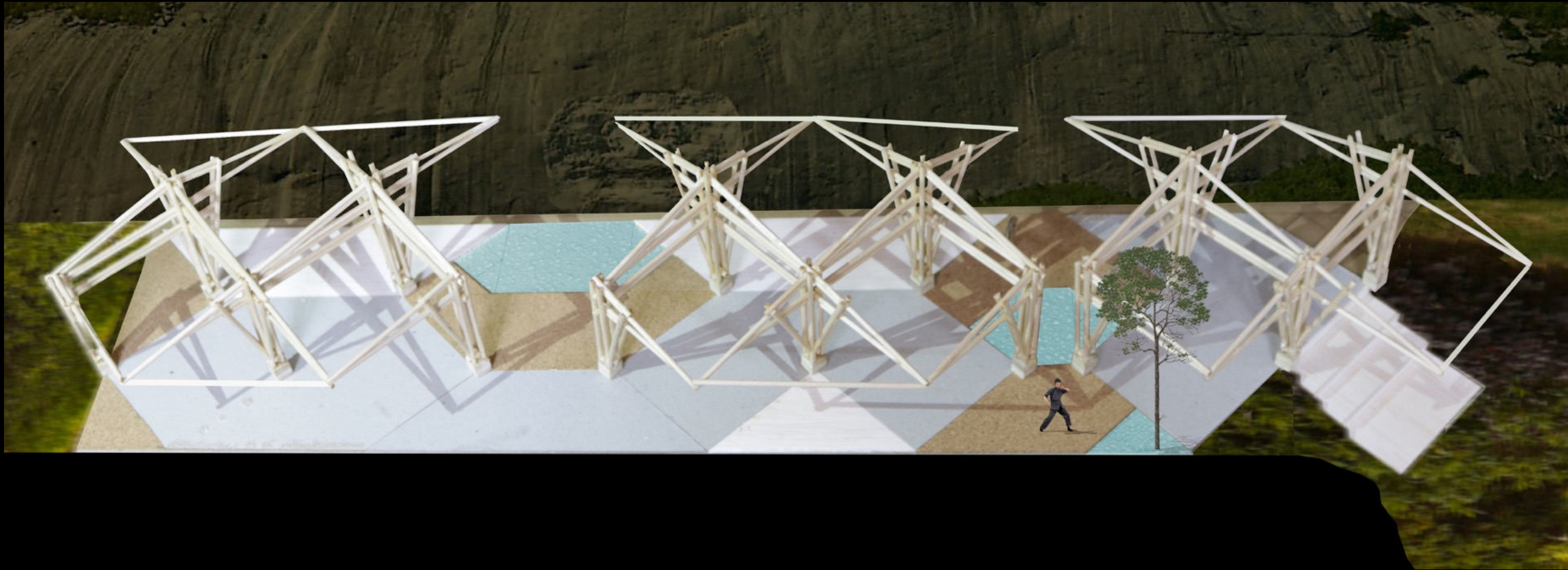


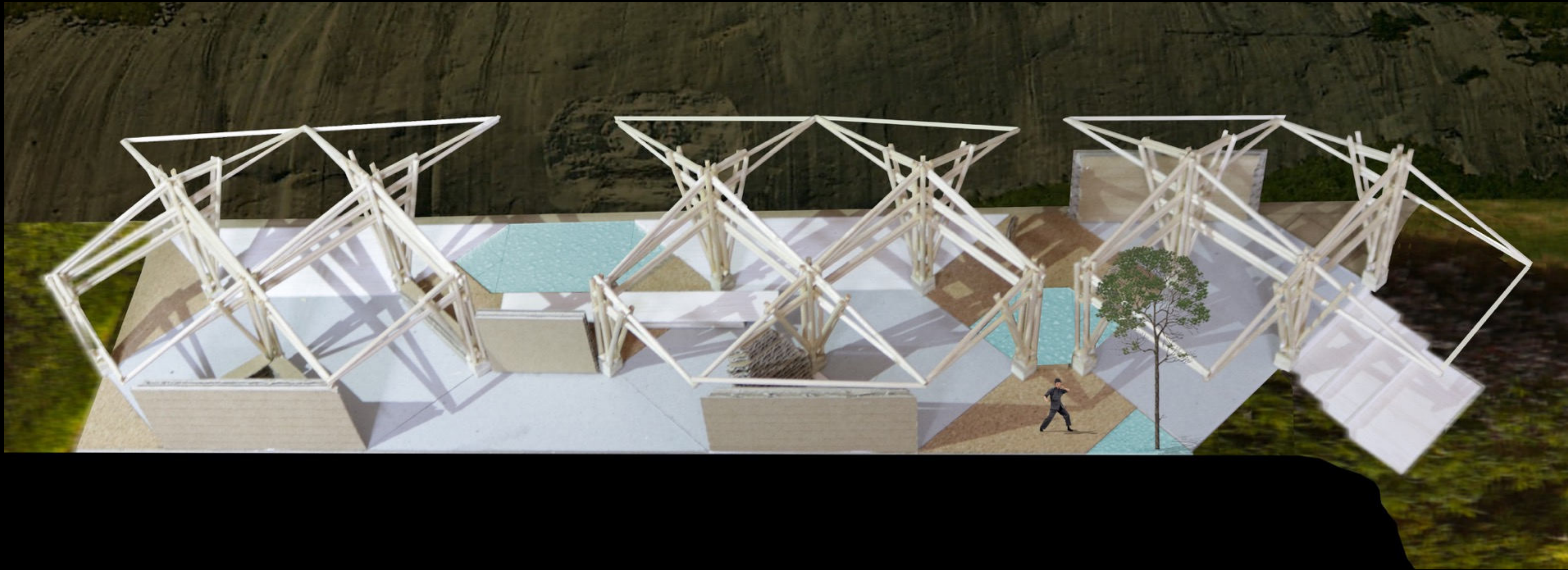


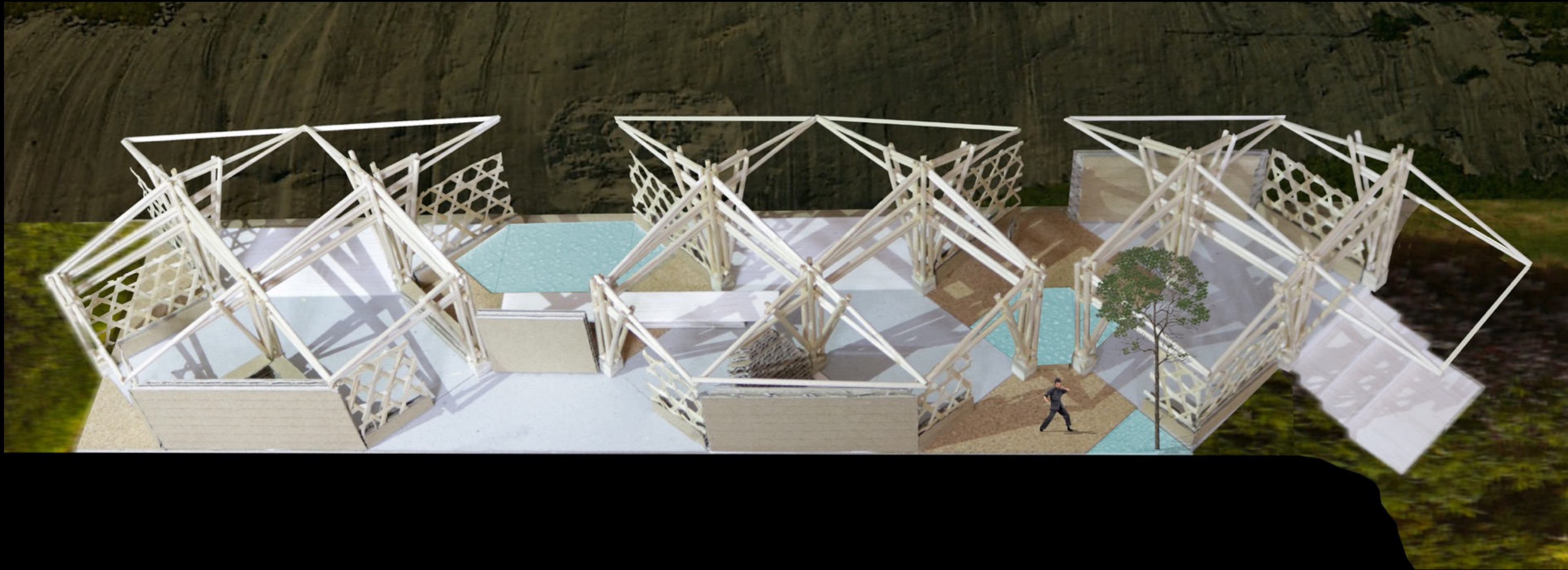


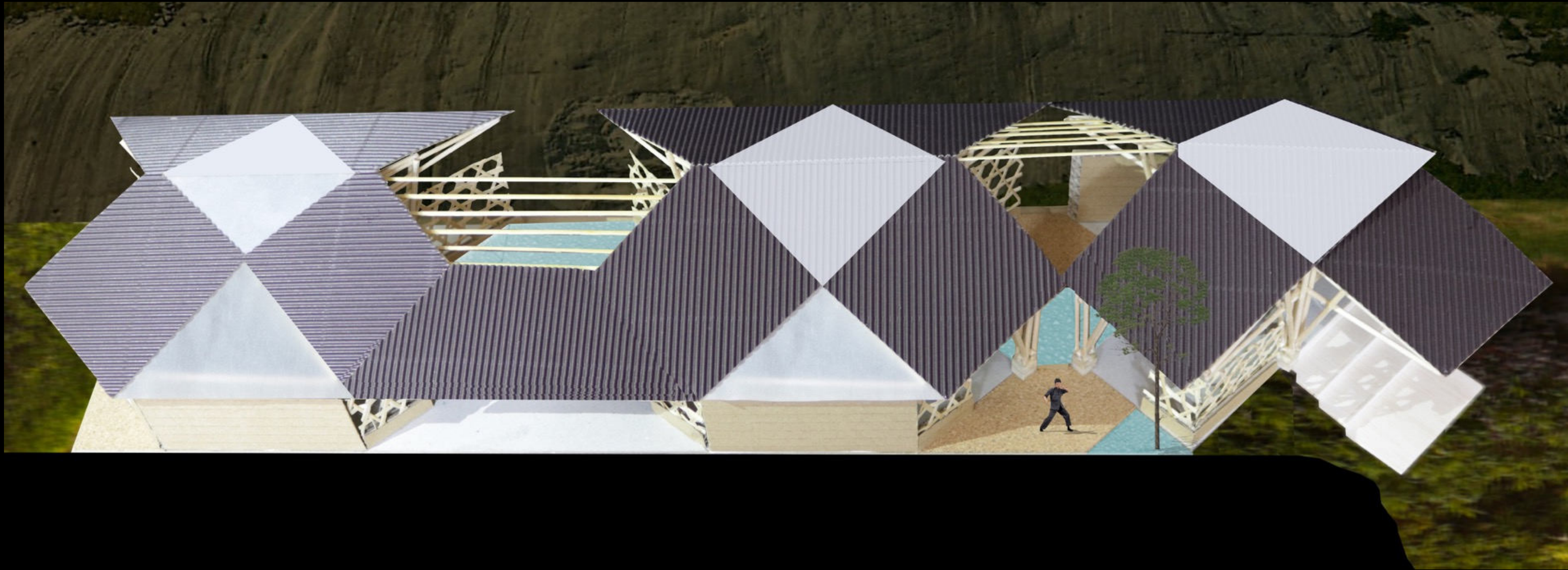


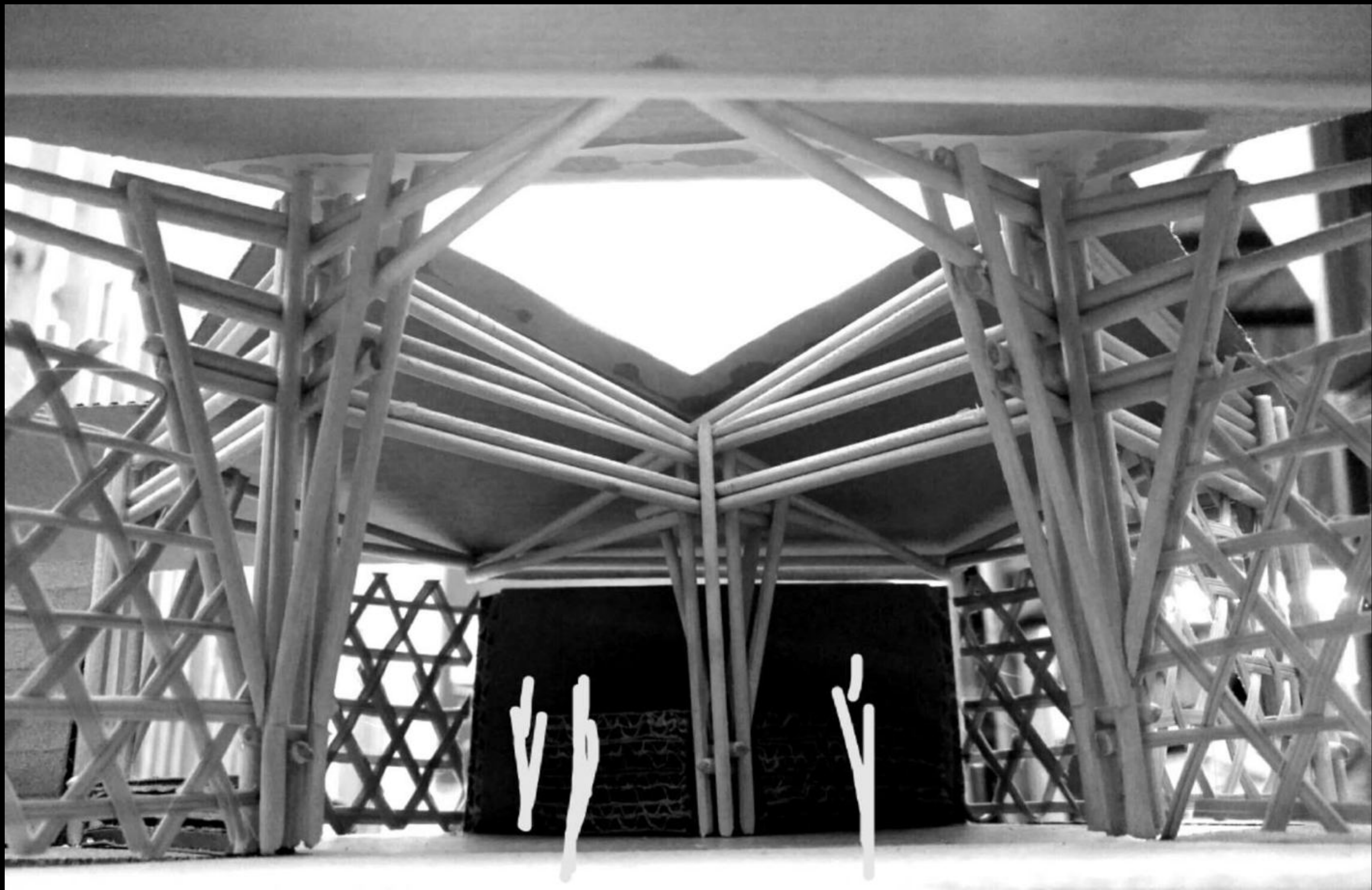






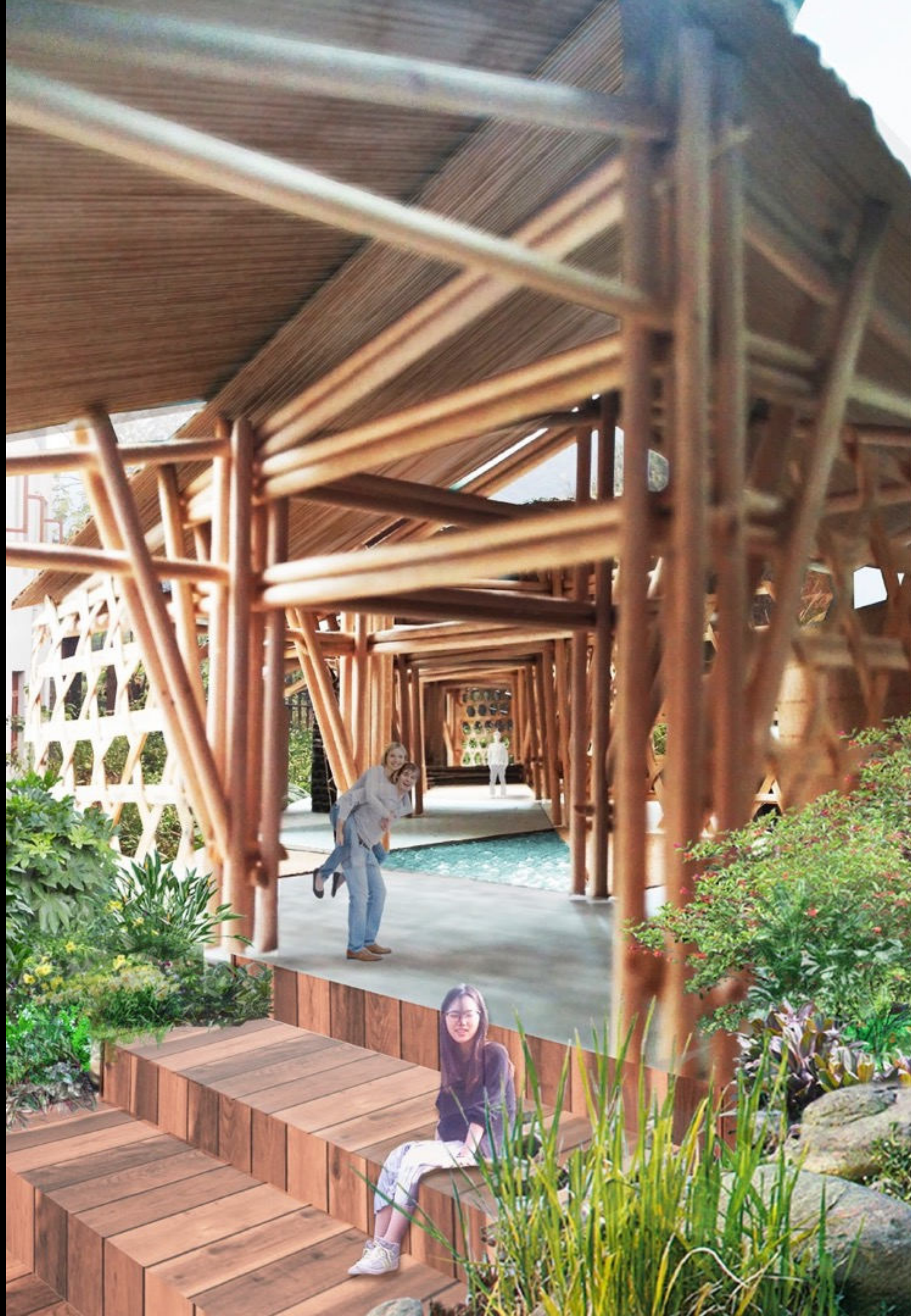


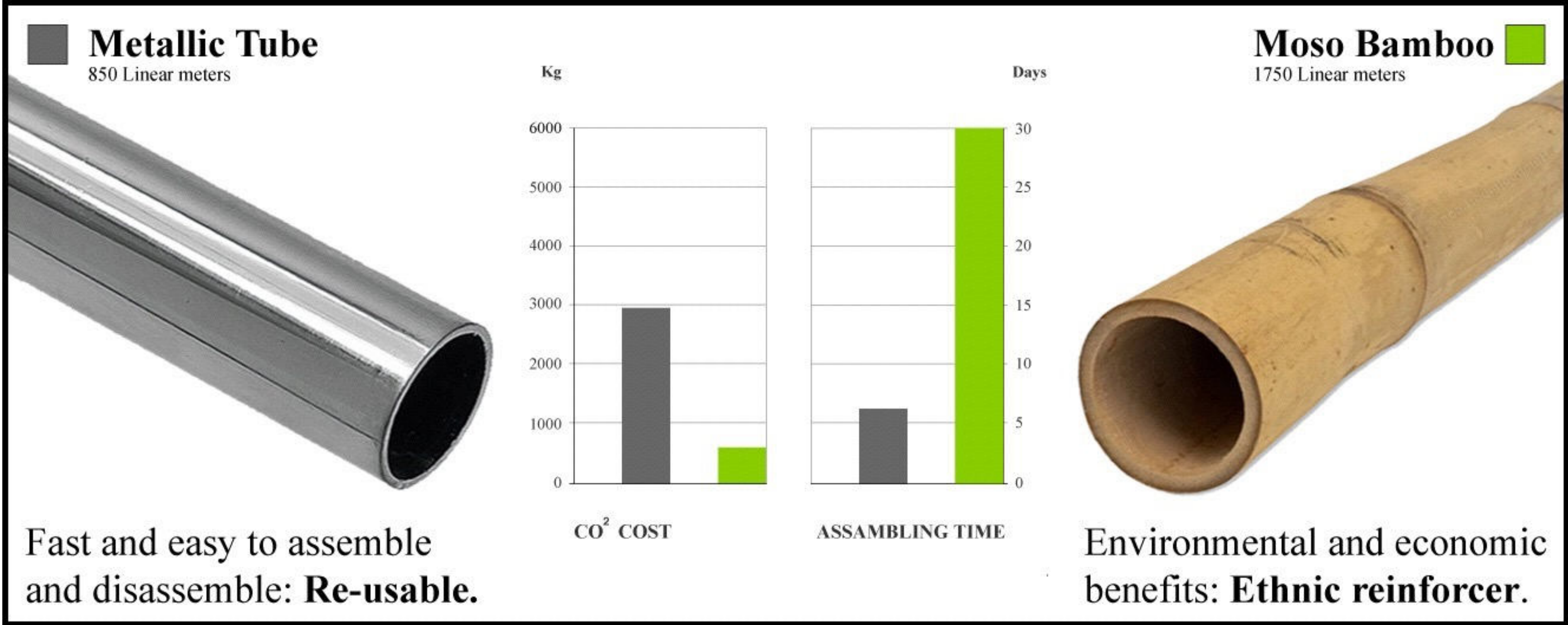






$$4 \times 4 = 16$$







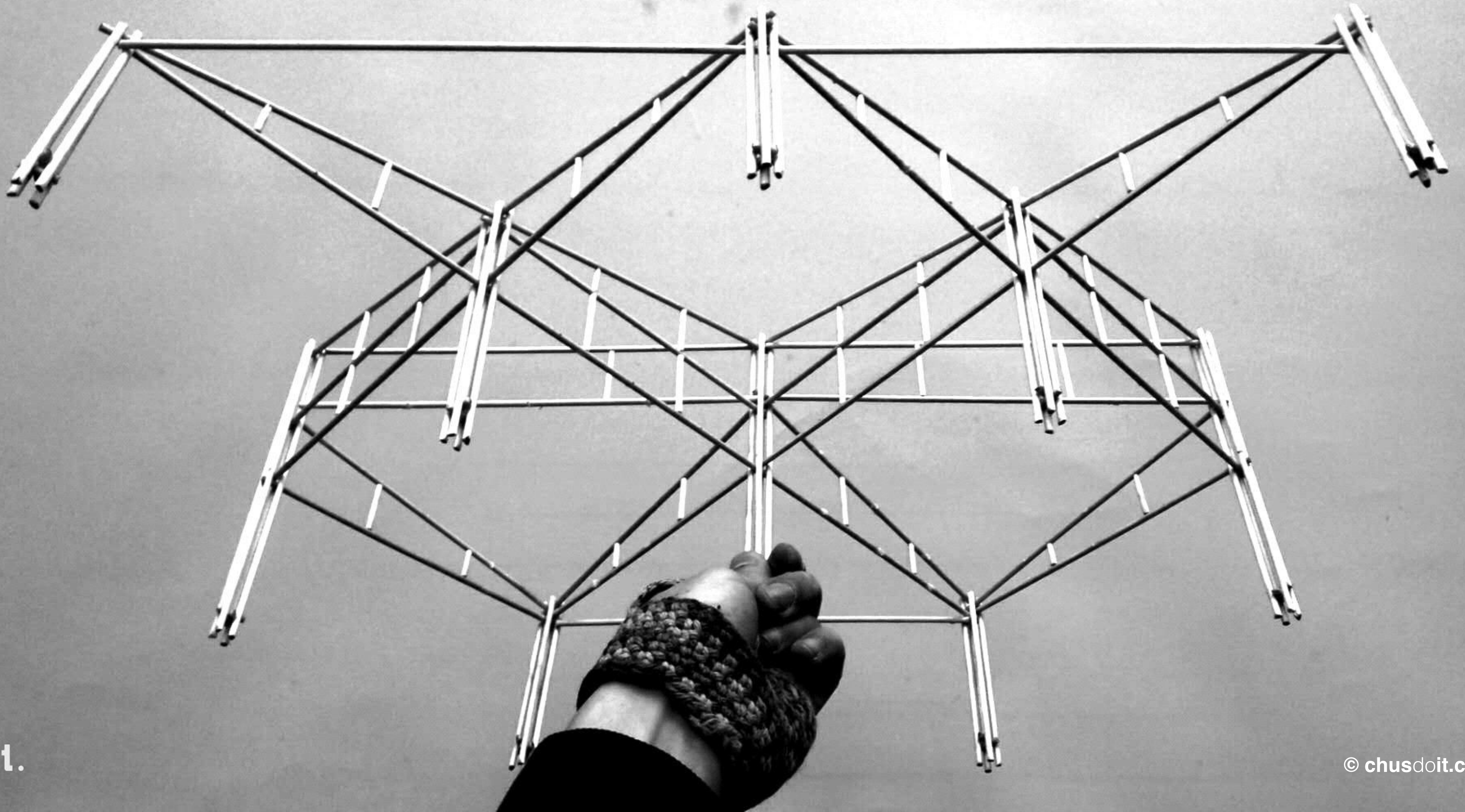
Utilized joint.

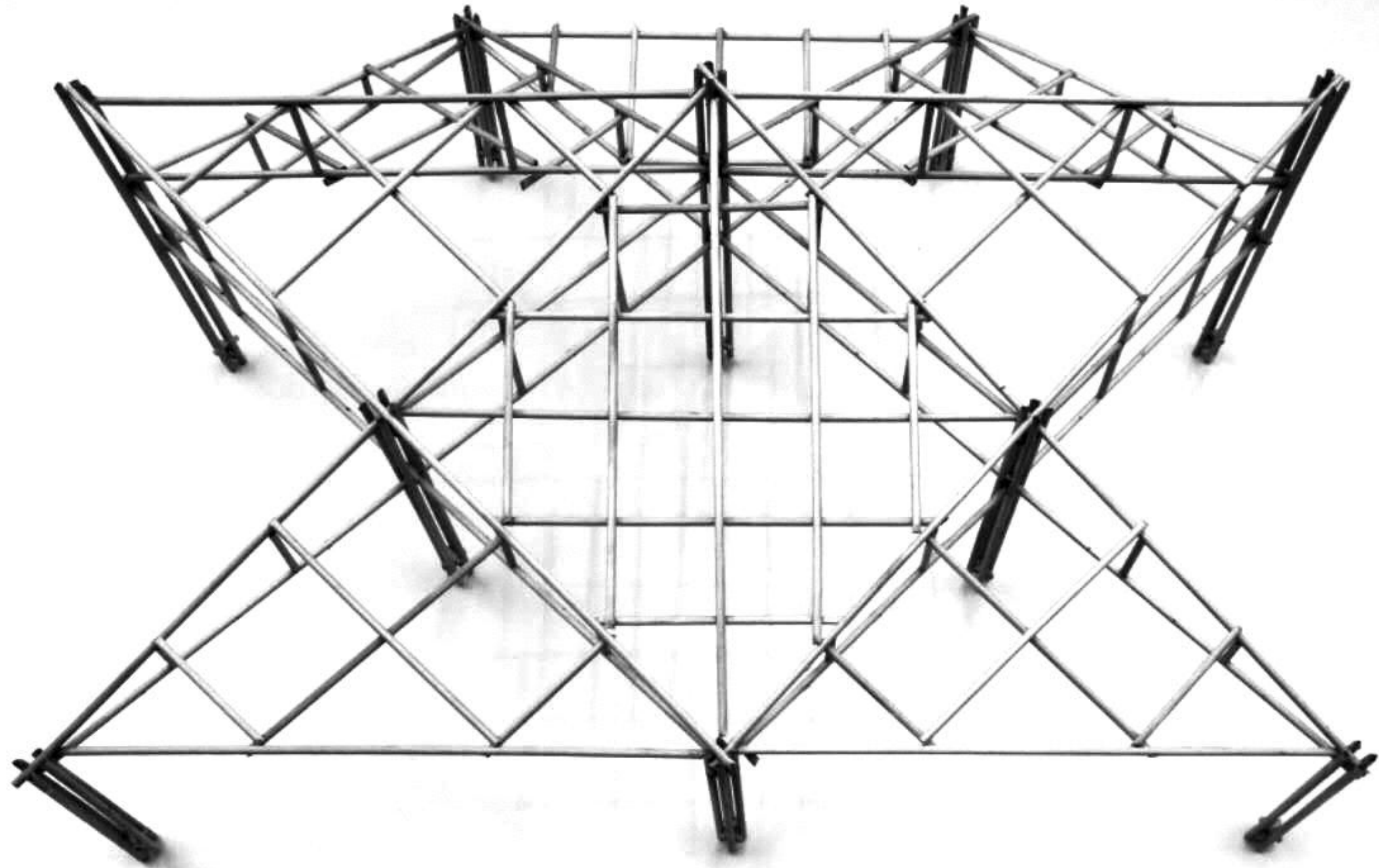


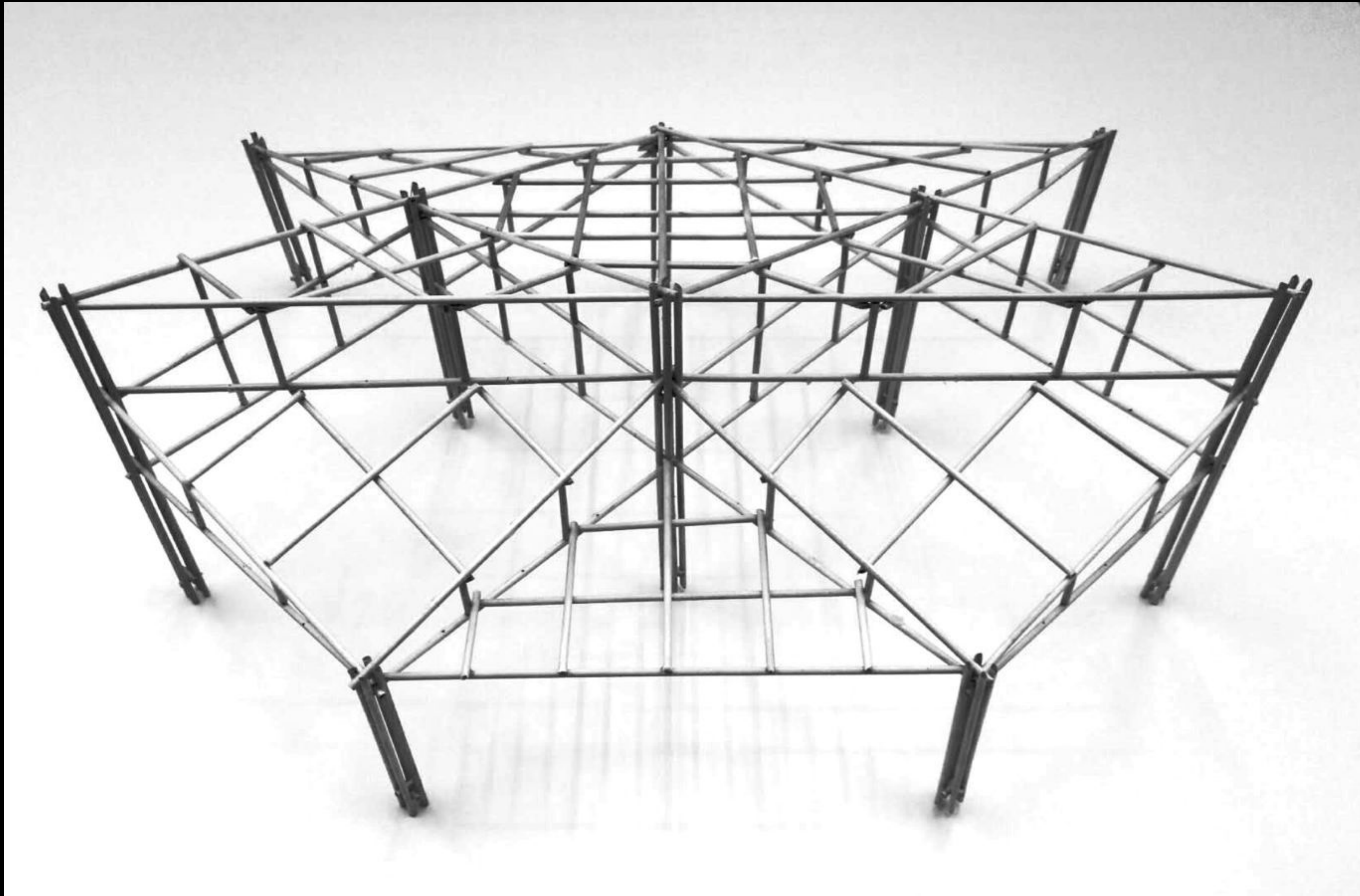
Foundation by gravity.



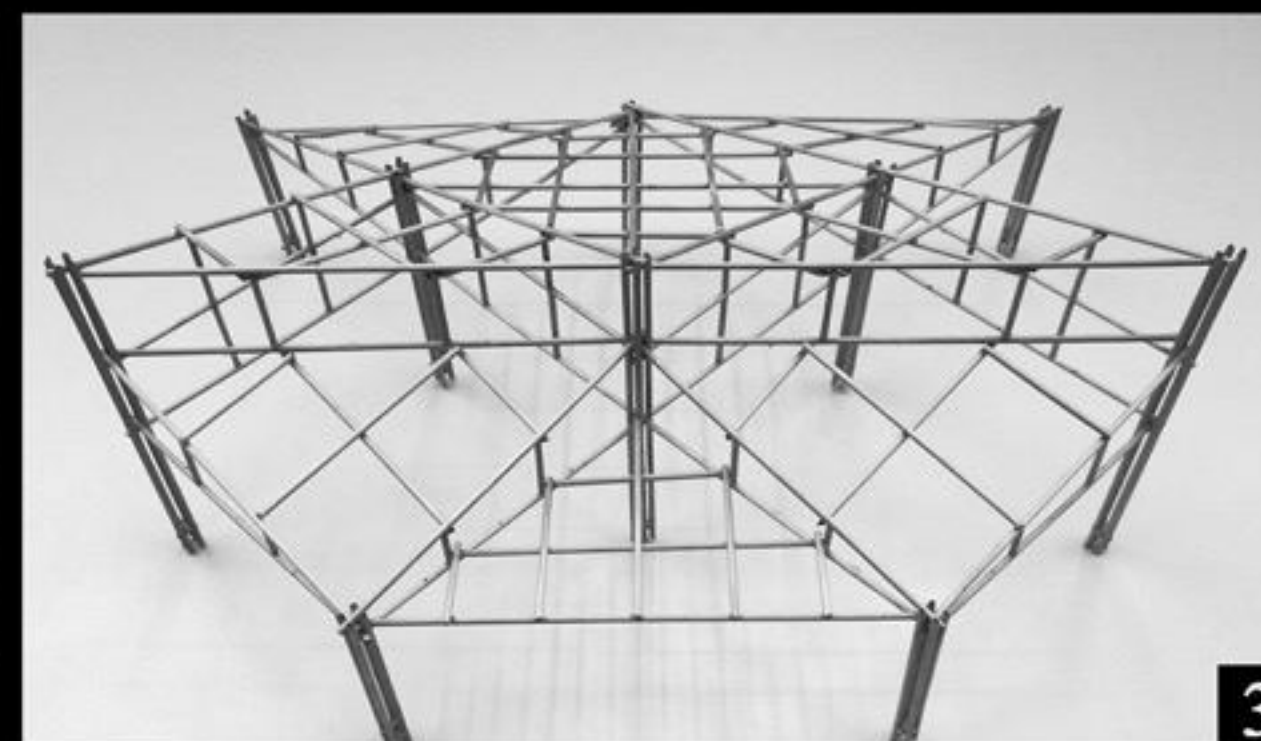
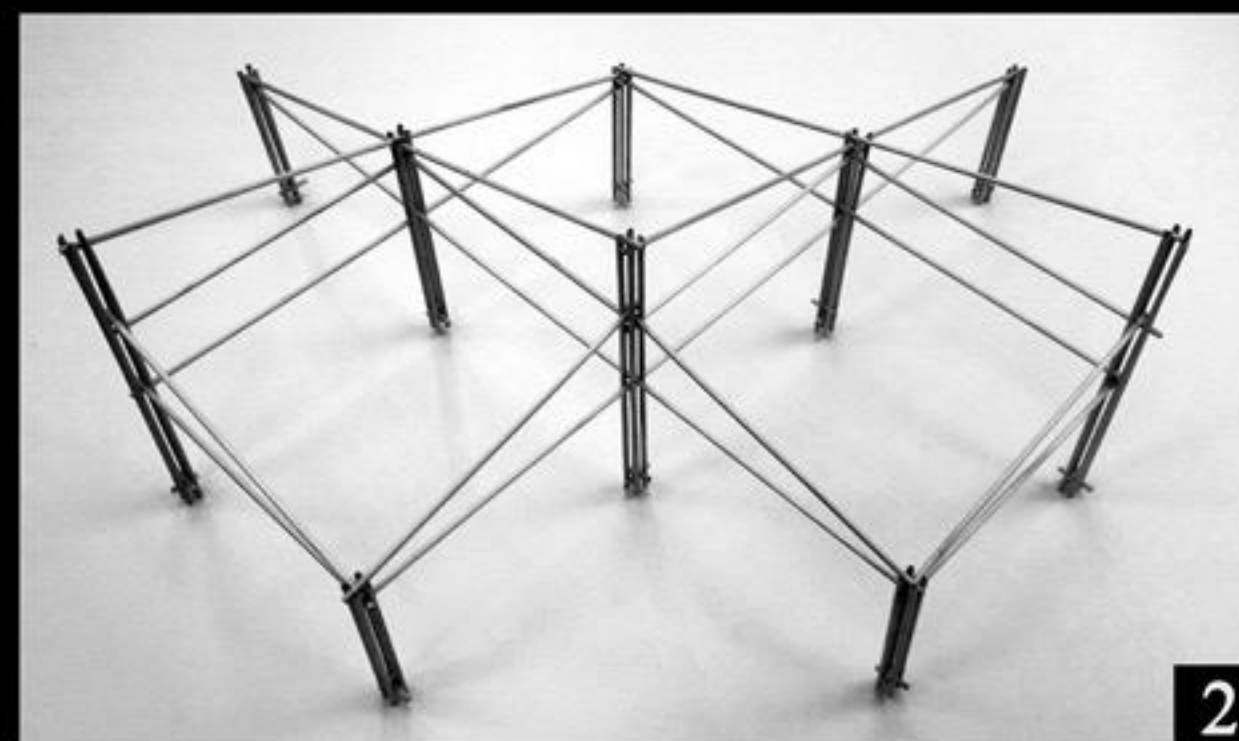
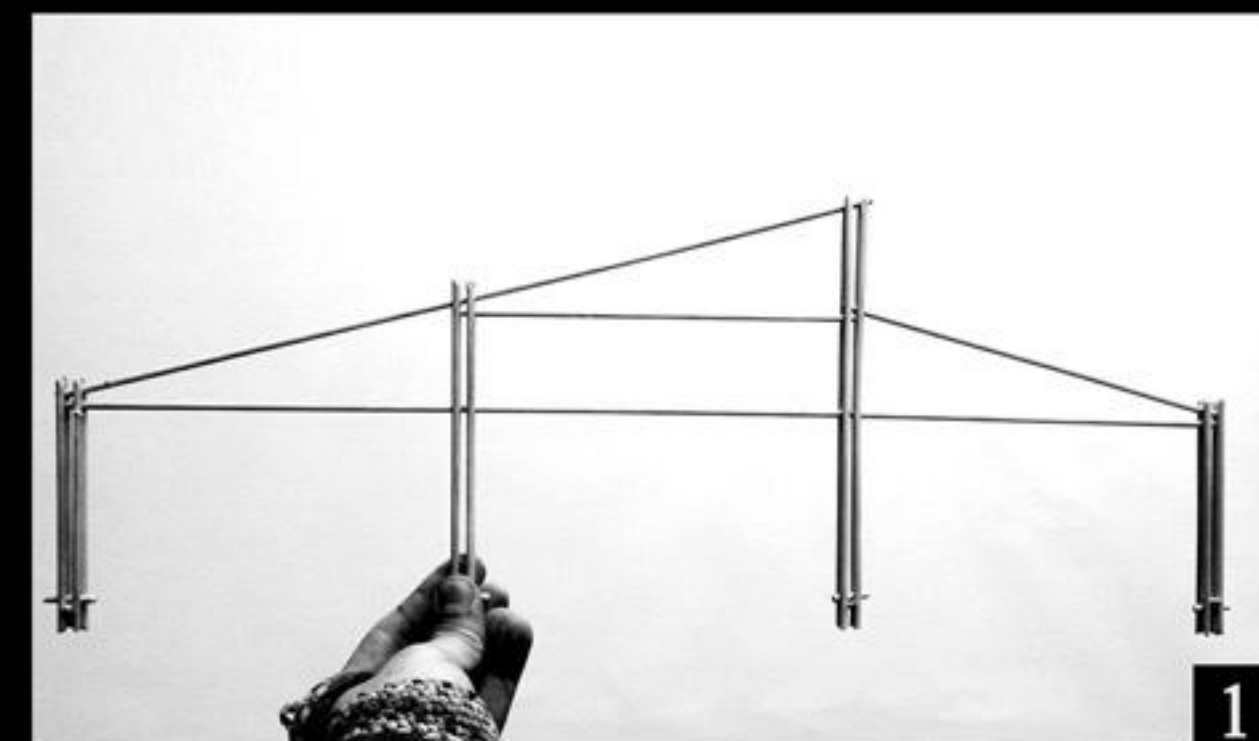
Structure sample.

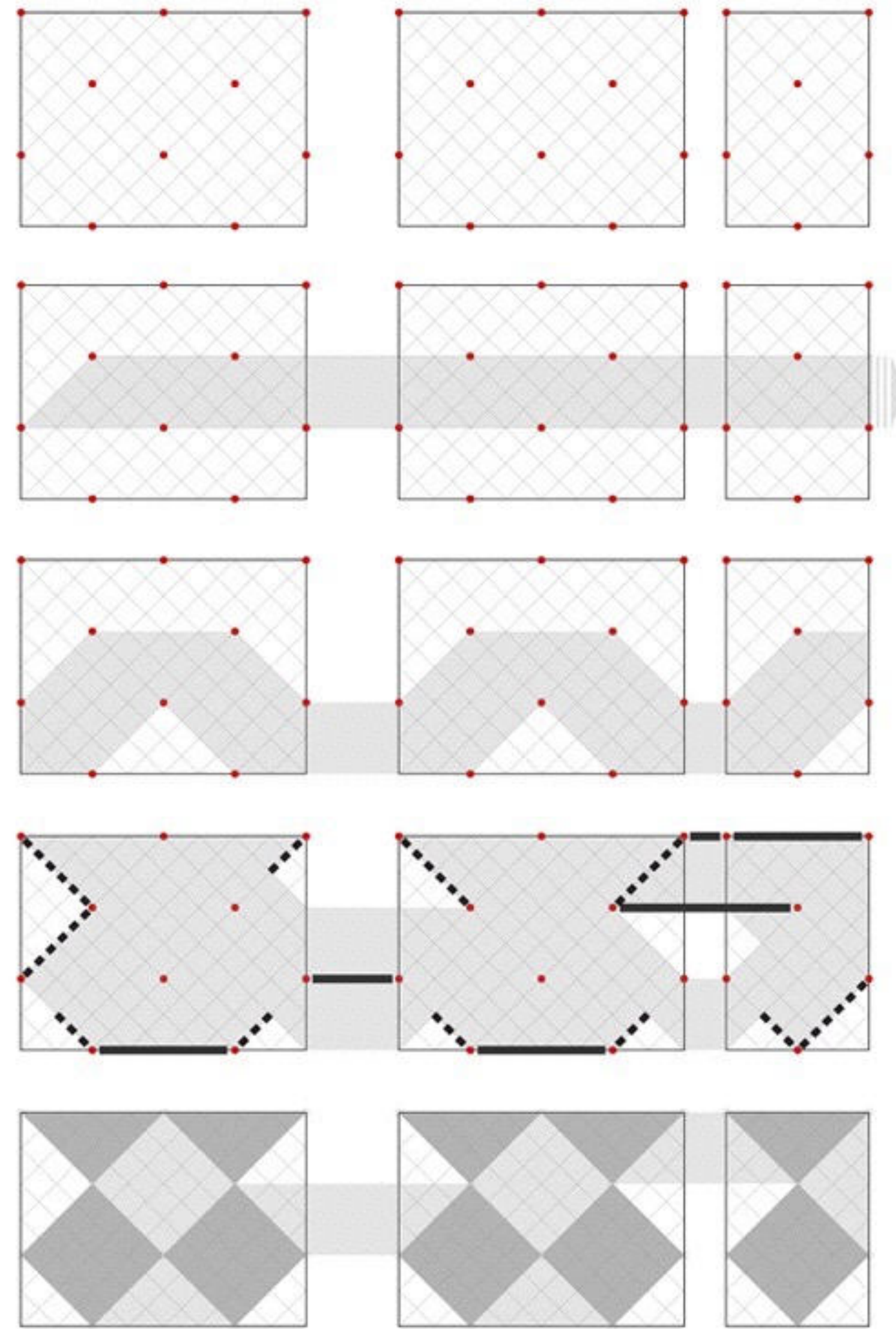
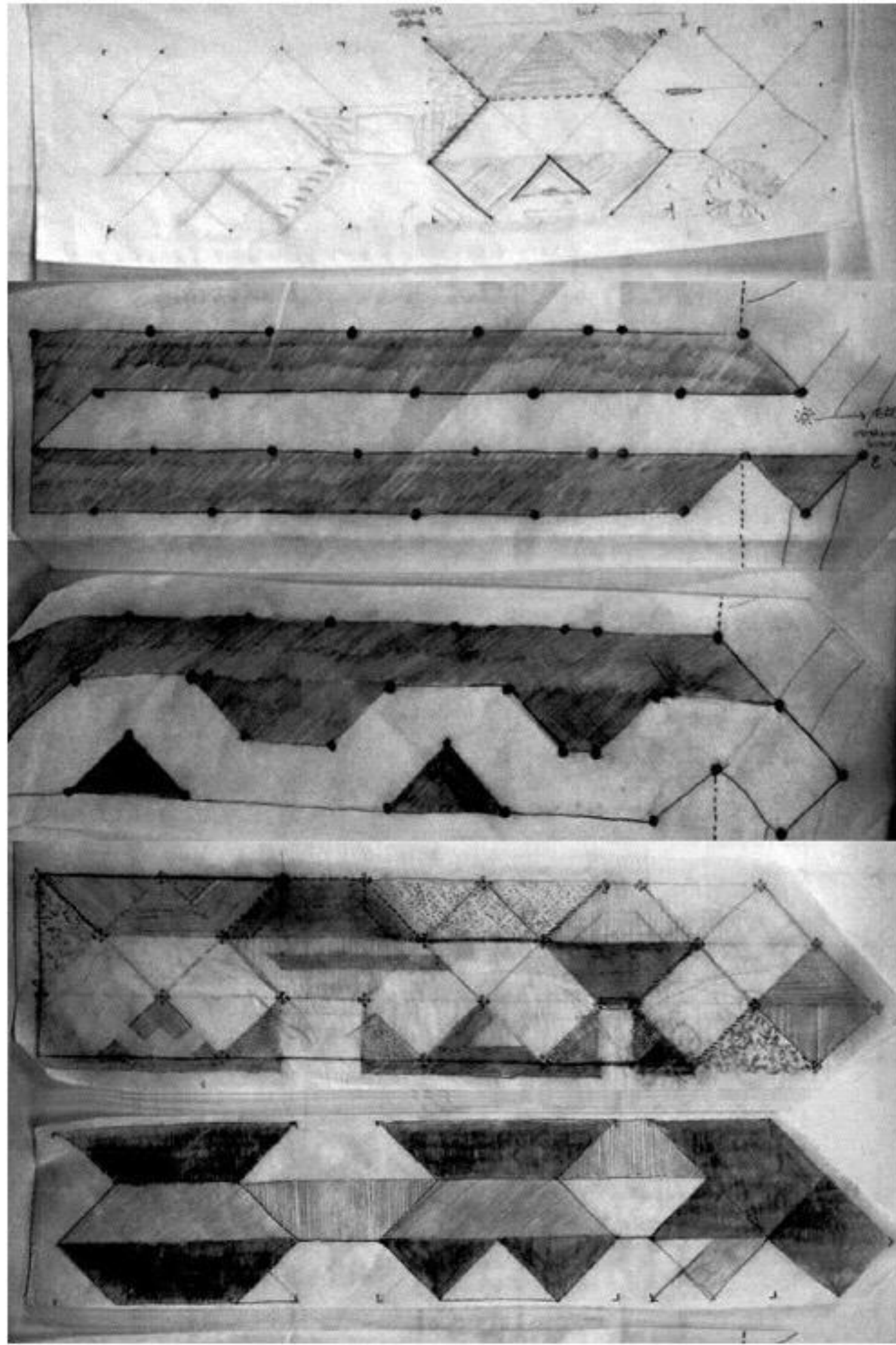


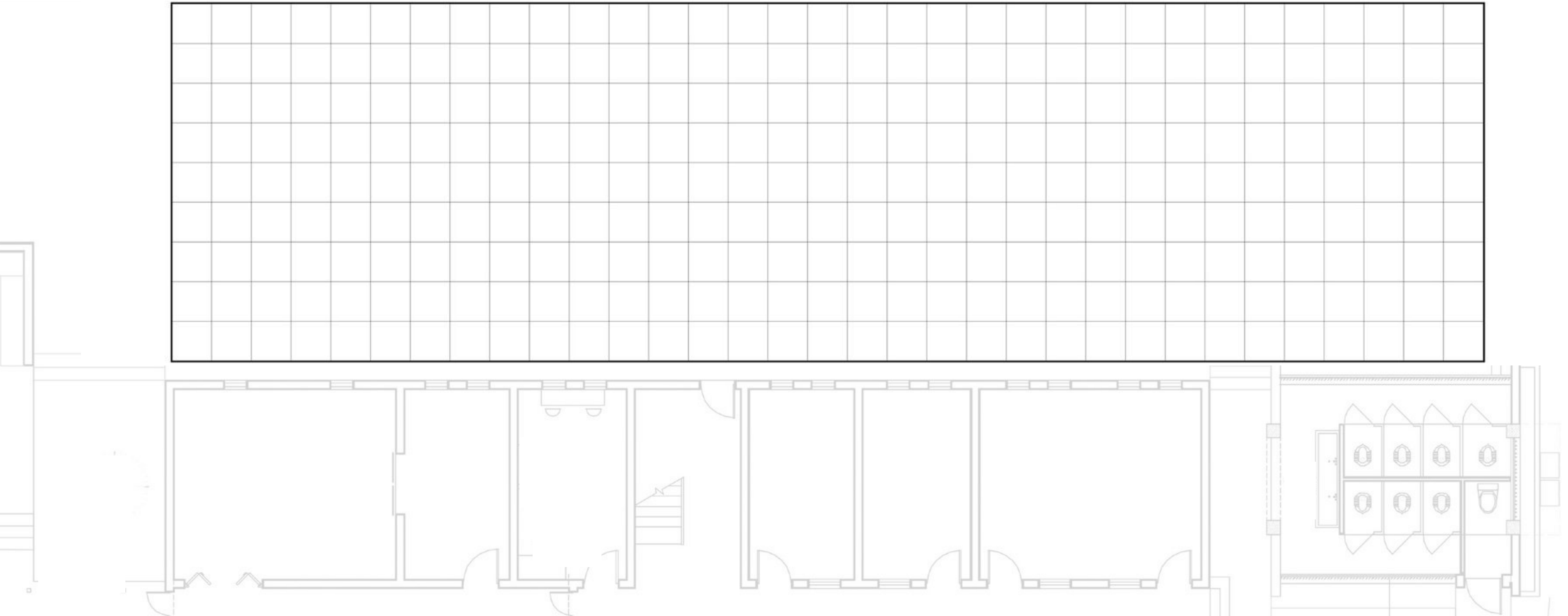


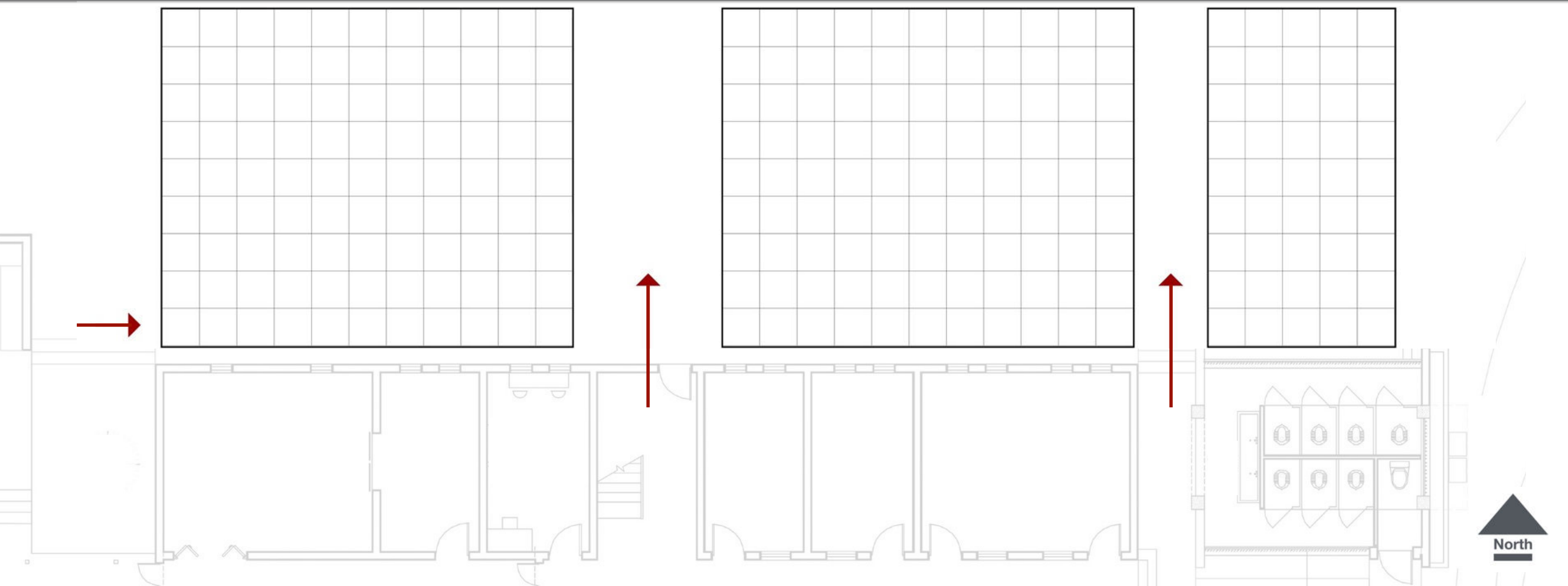


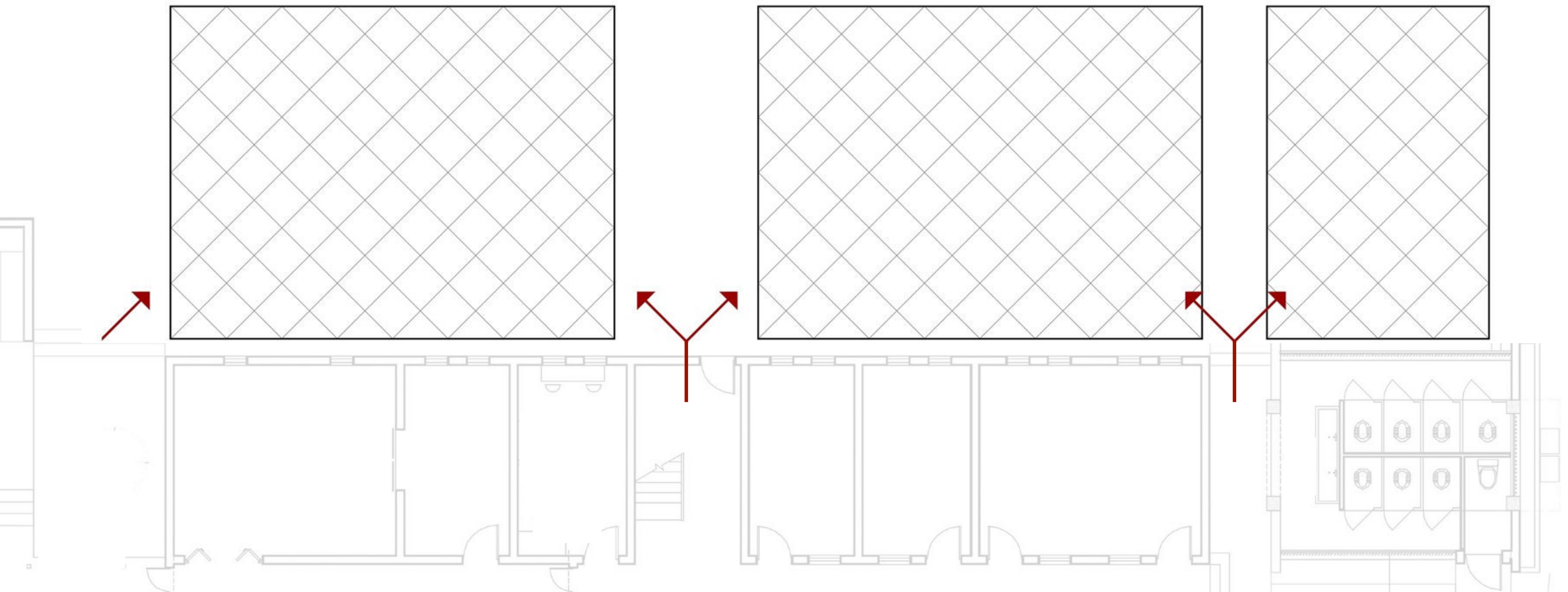


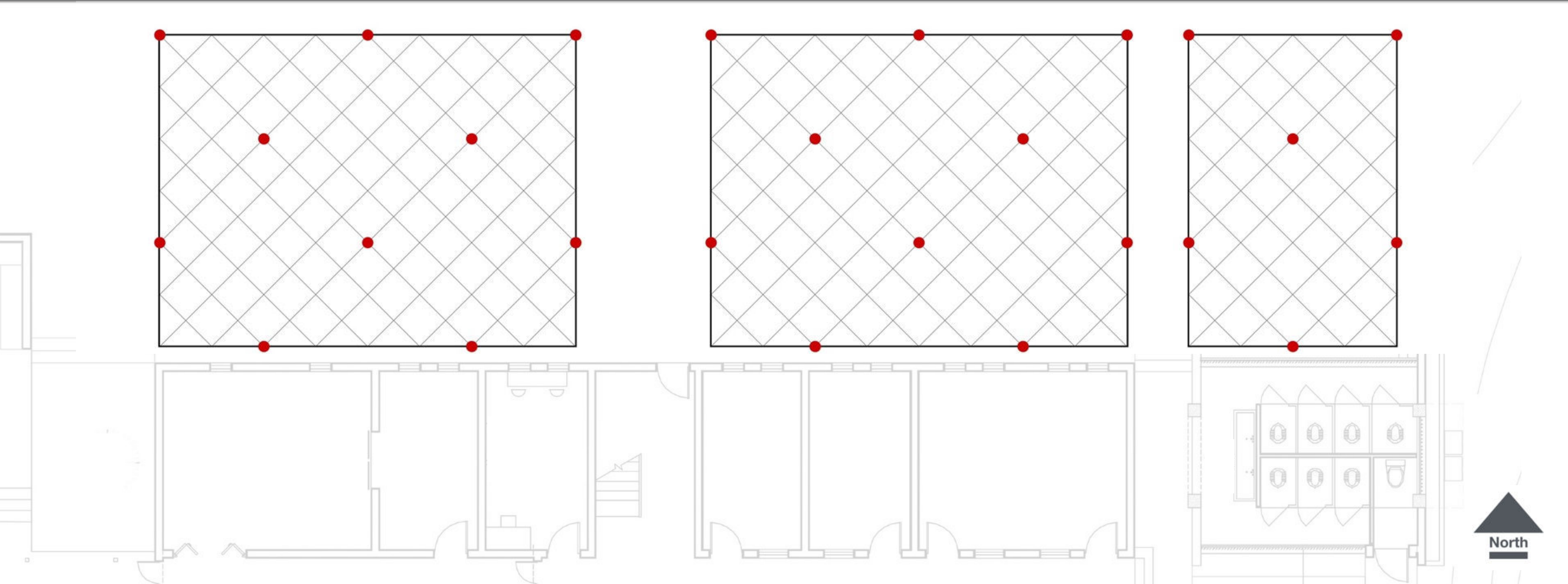


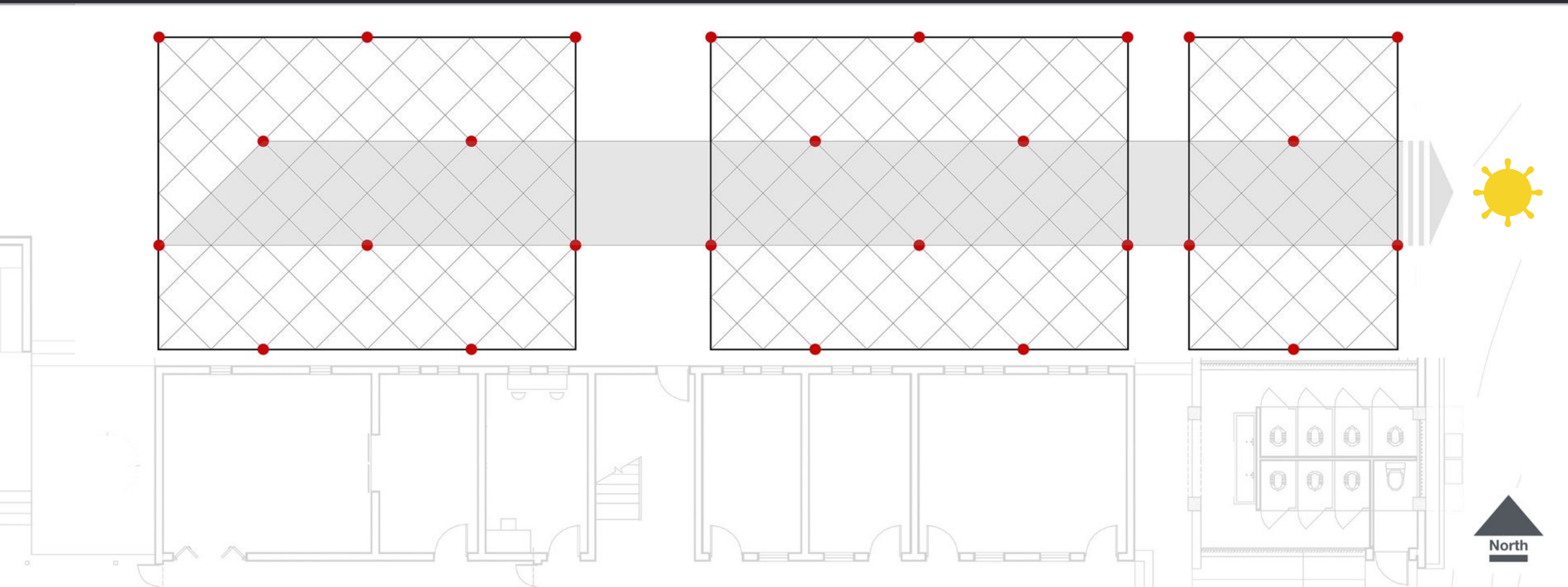


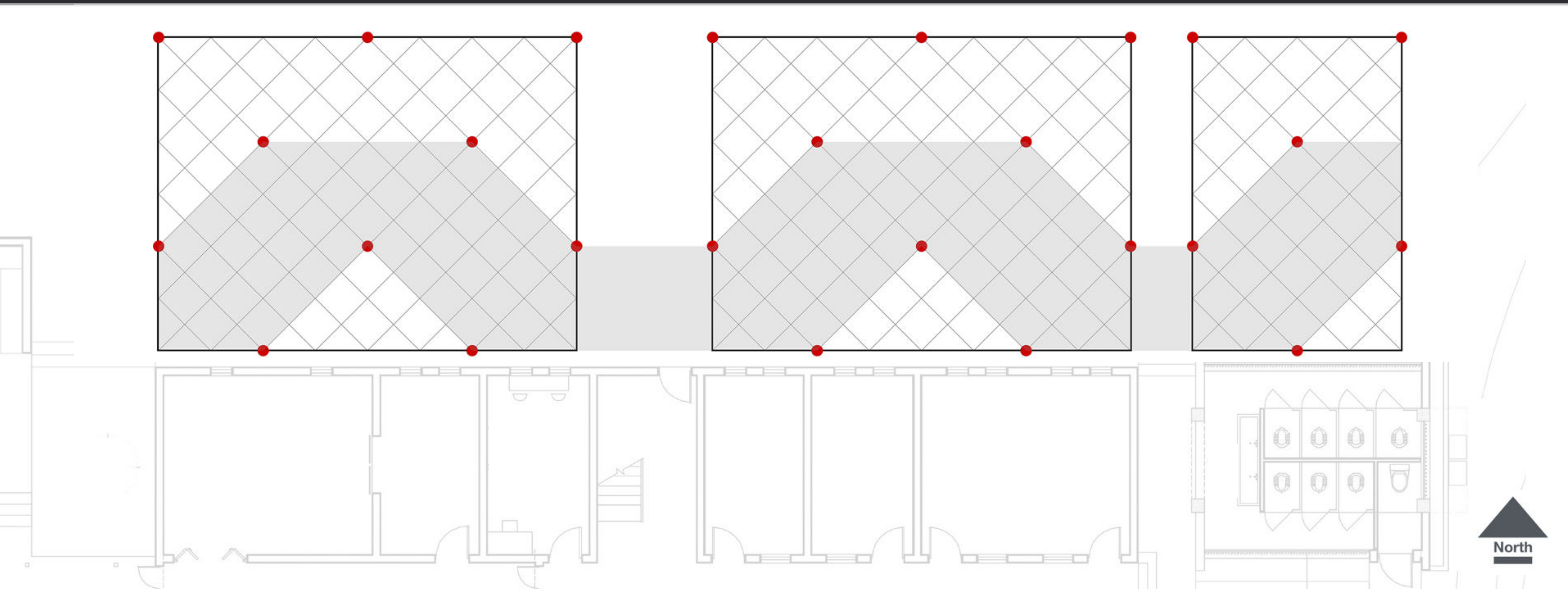


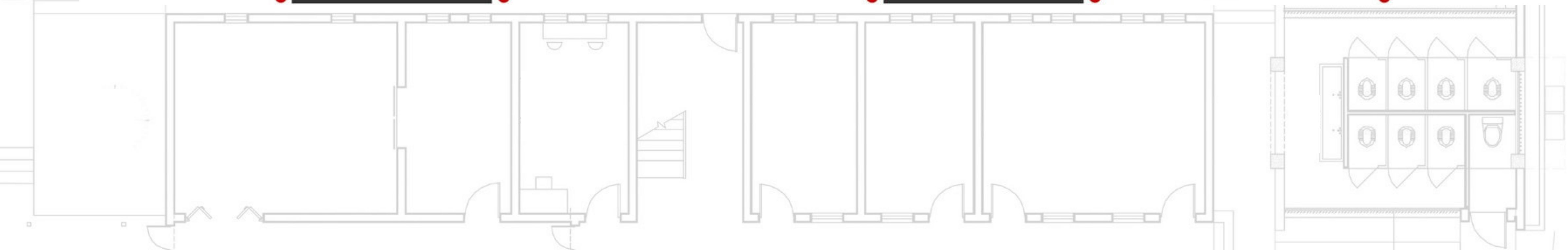
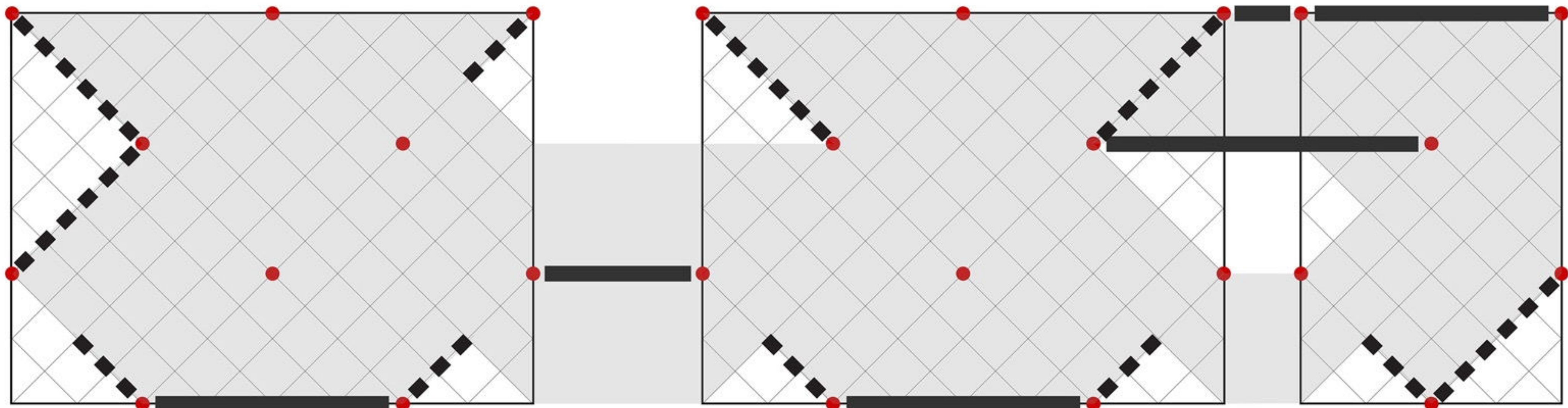


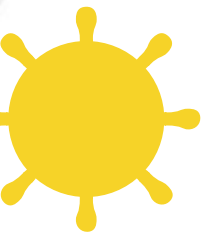
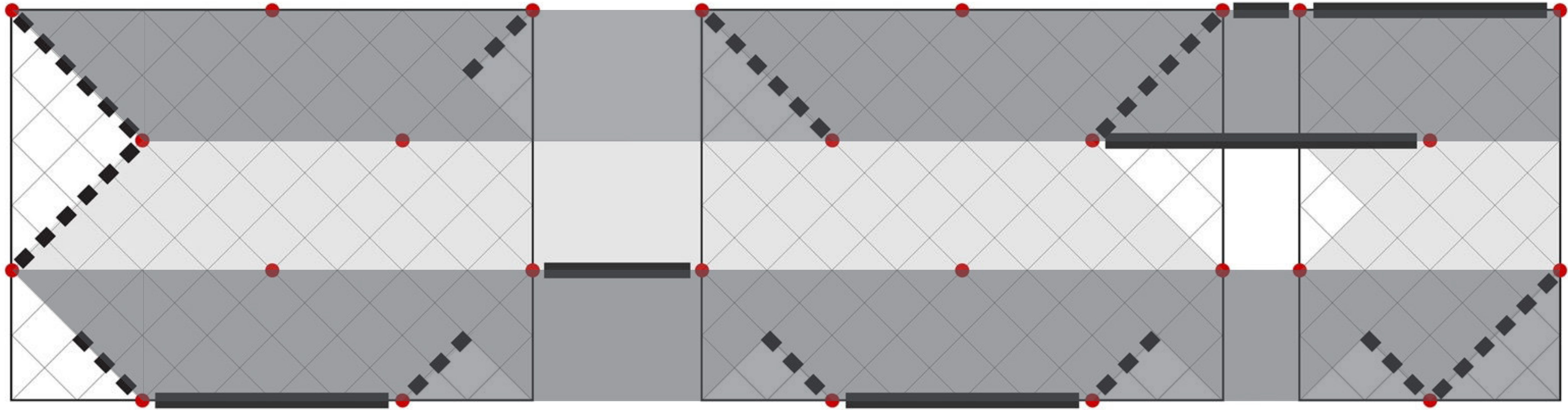


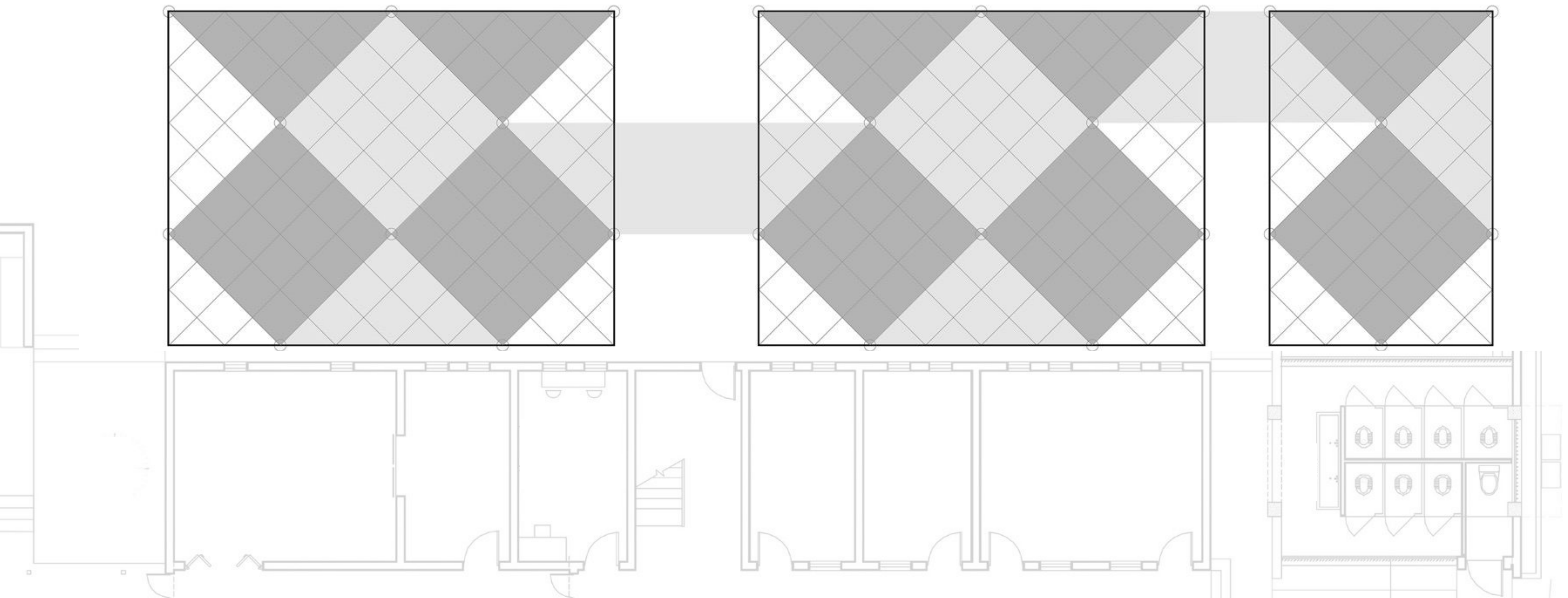


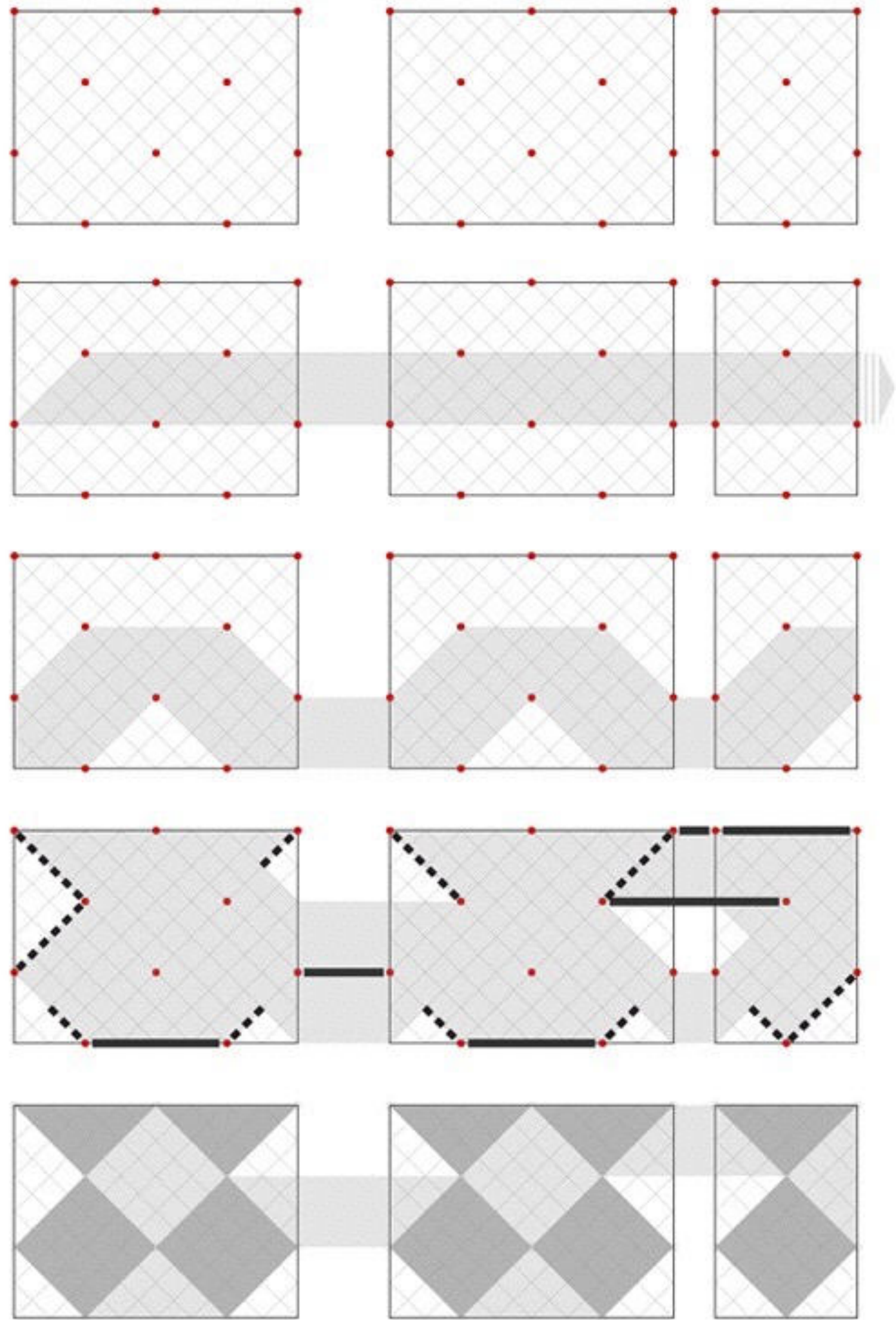
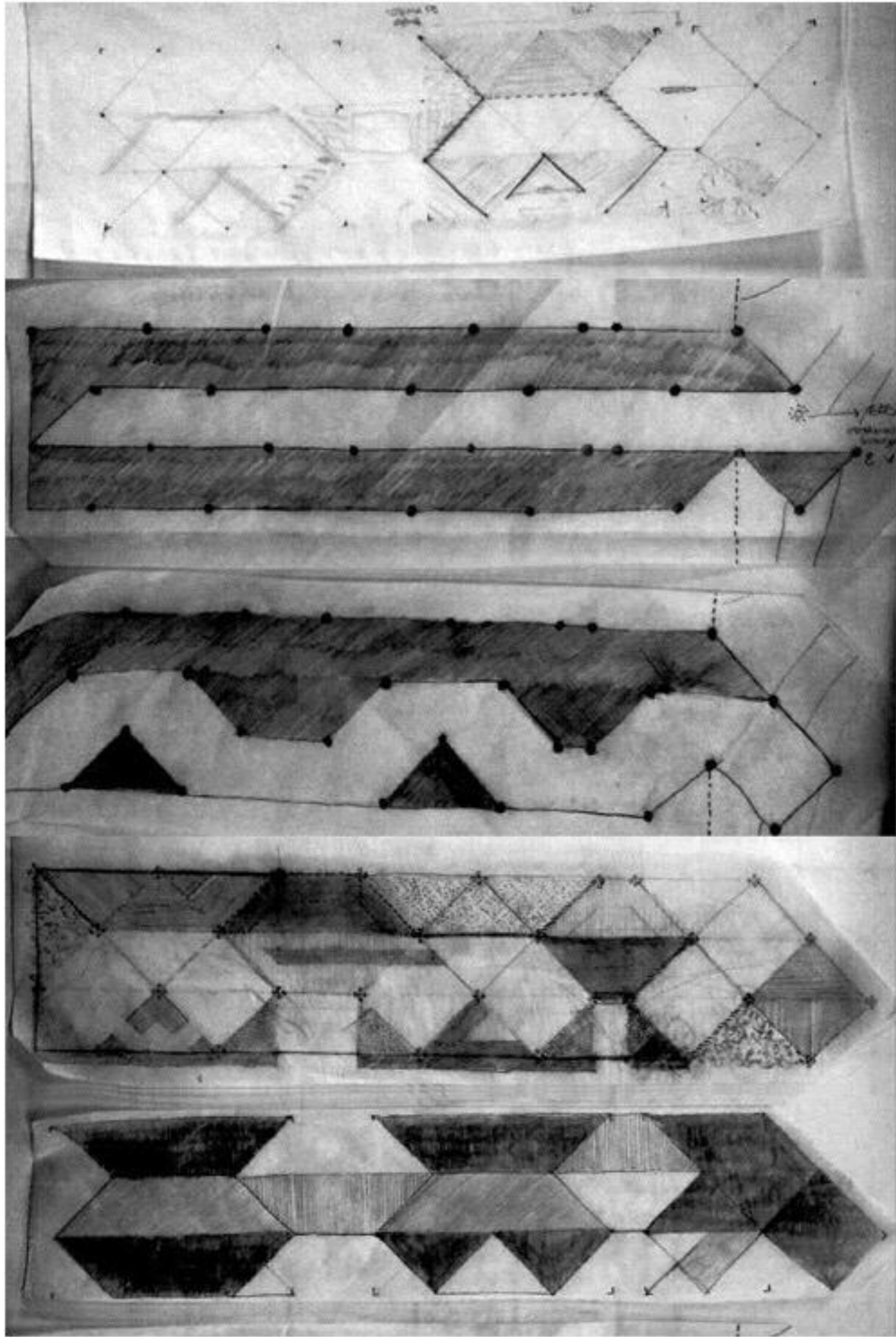


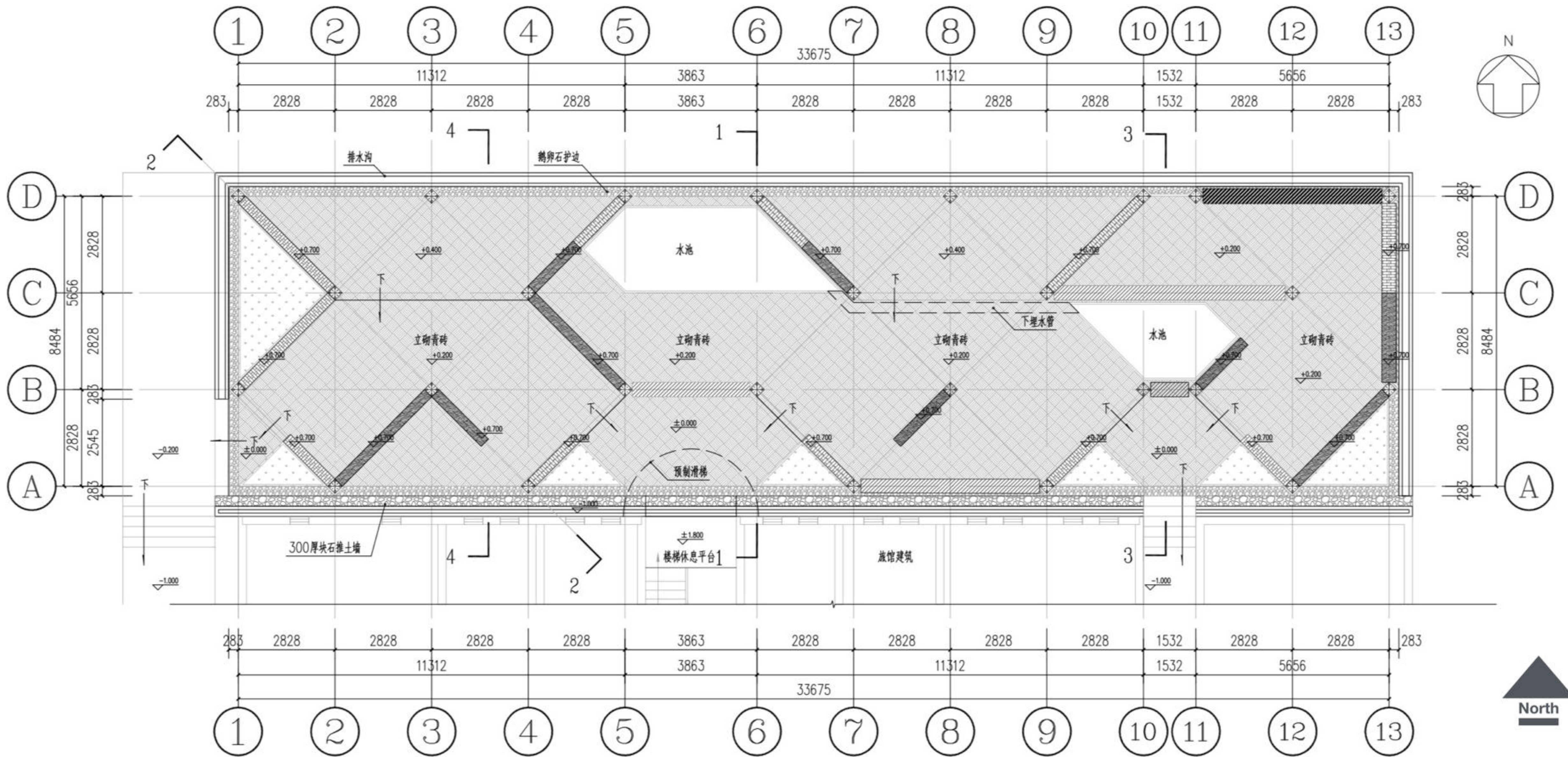














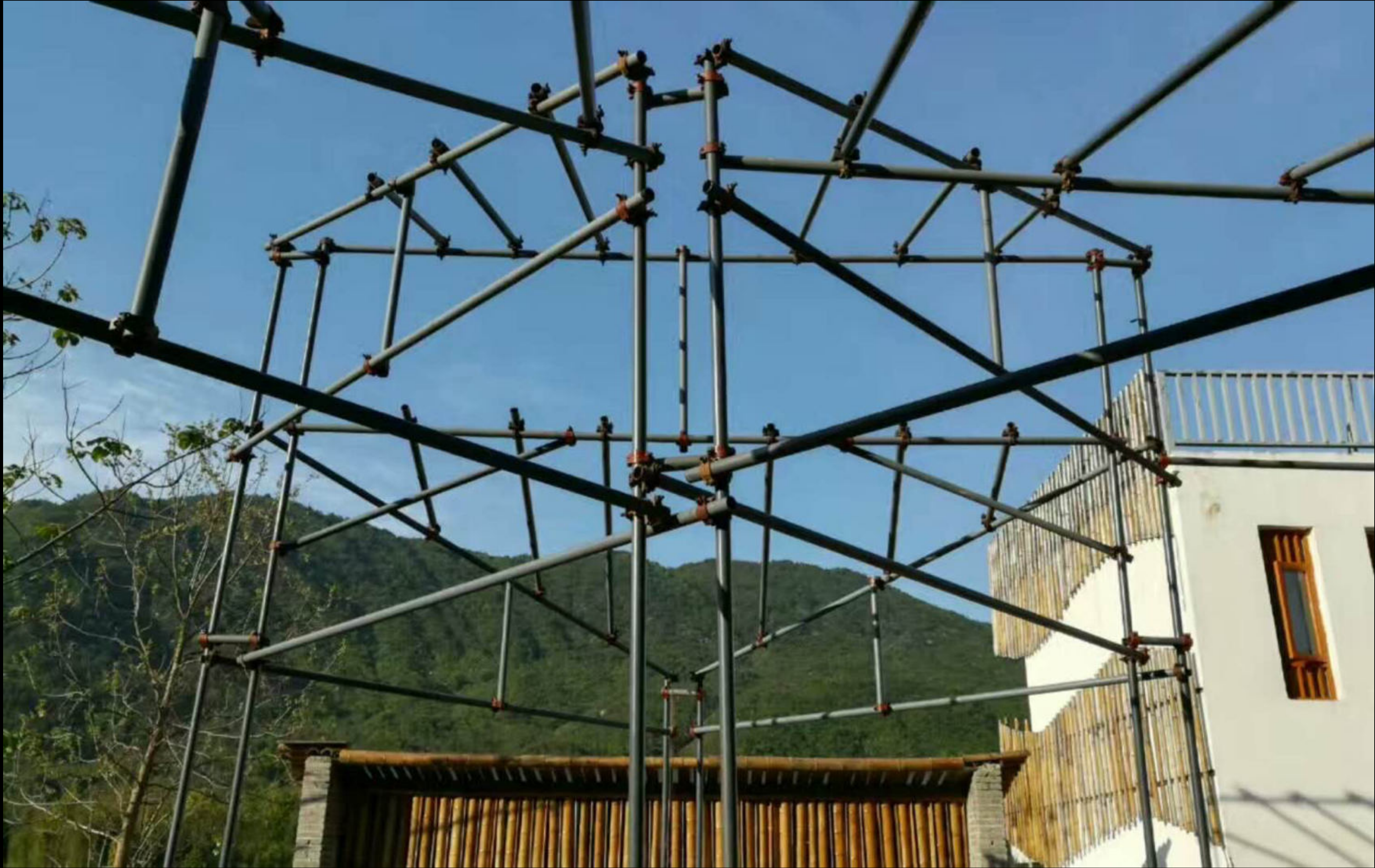




















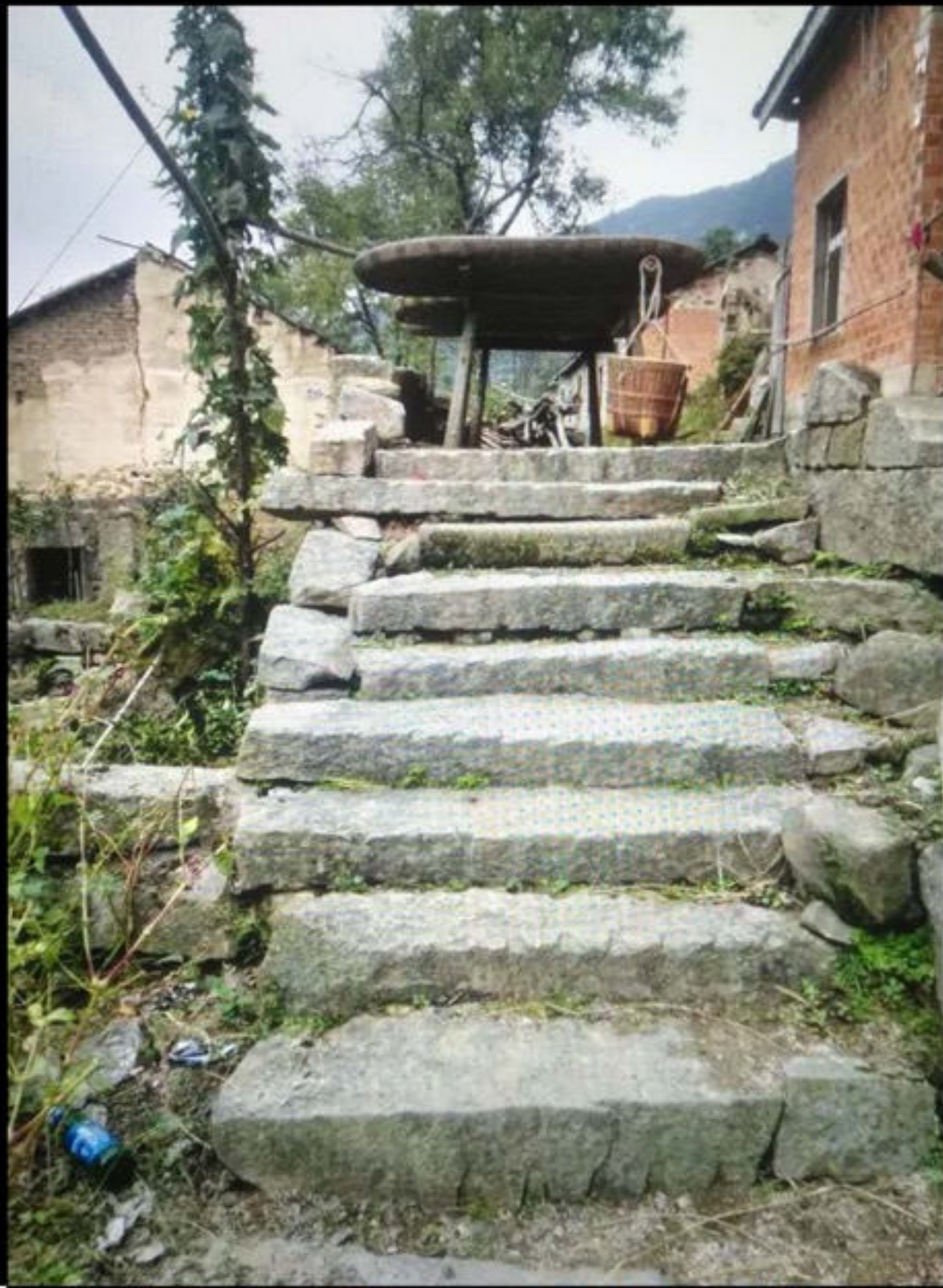






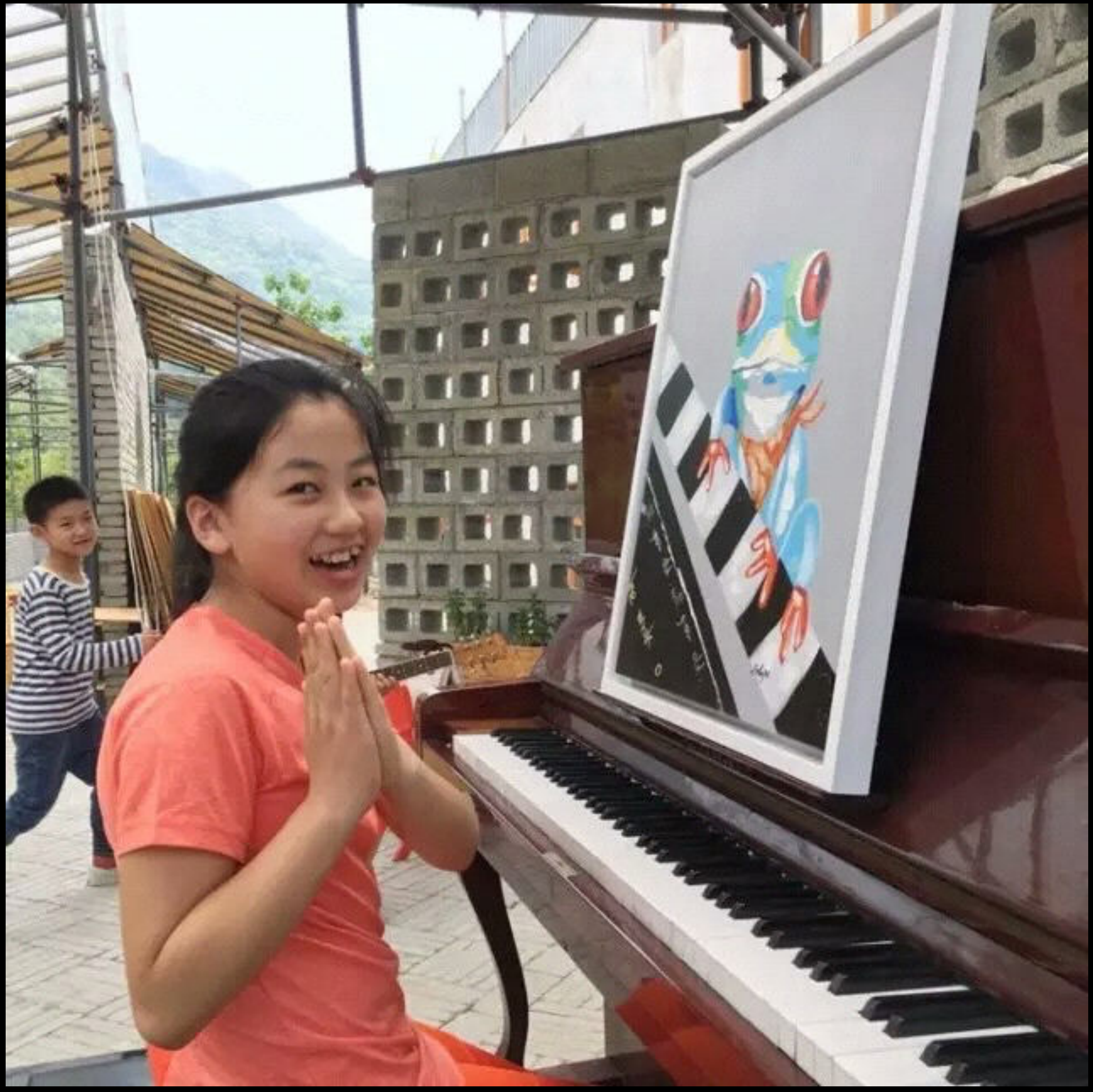


ZHENGJIA SHAN VILLAGE



AREA_X





第二届“美丽乡愁·乡村振兴” 建筑设计创新大赛颁奖典礼

The second session Award Ceremony of
"Beautiful Nostalgia and Vitalization of Rural Areas"
Architectural Design Innovation Competition



Descarga el artículo académico aquí:

chusdoit.com/area-x-article

1. ¿Cómo usar el bambú según sus propiedades únicas?





Atelier Lai, 2019.



PUENTES

La máxima expresión de la capacidad de carga del bambú



Siglo XVIII Europa. Hermanos Grubermann Puentes de madera 100m

La fabricación de modelos de bambú es perfecta para eso. Especialmente cuando su proyecto no tiene presupuesto para el cálculo estructural del software



19th Century, Switzerland.



1990. Cali, Colombia.

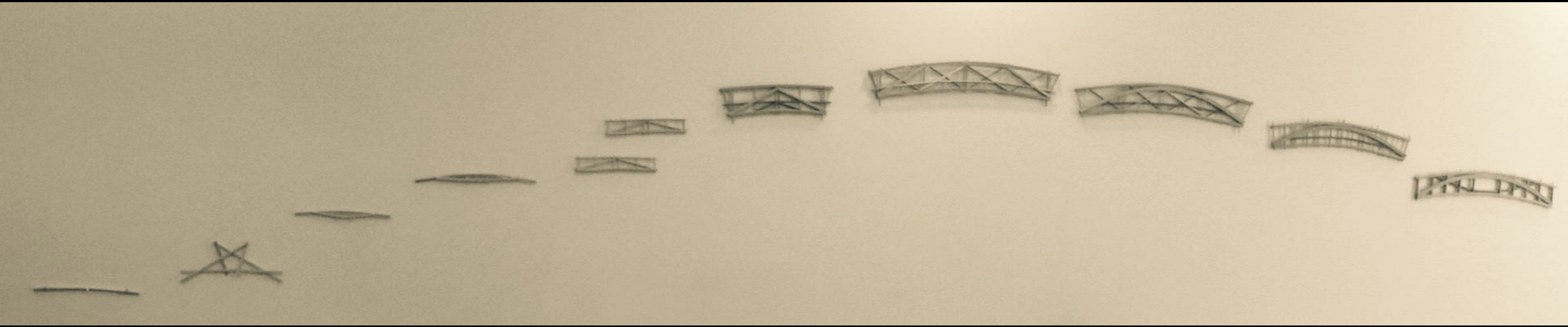


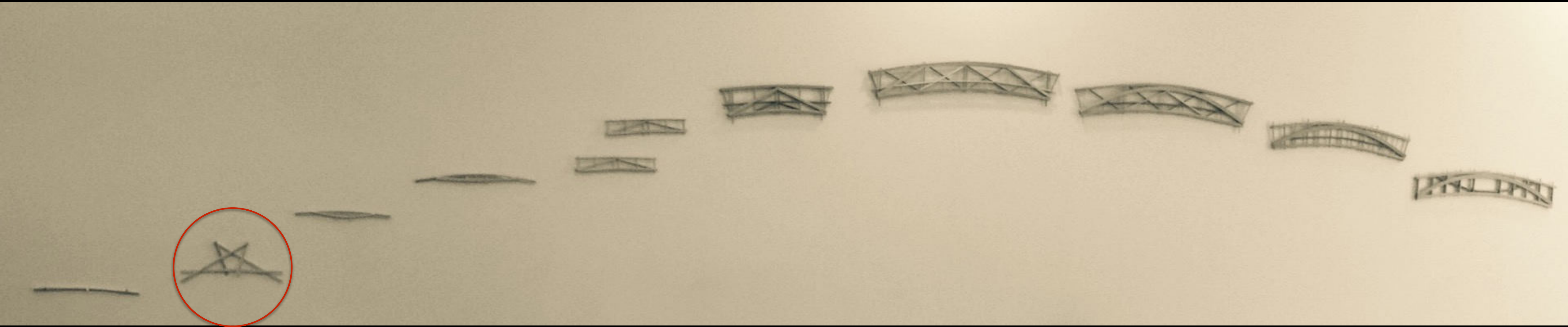
2016. Chongqing, China.

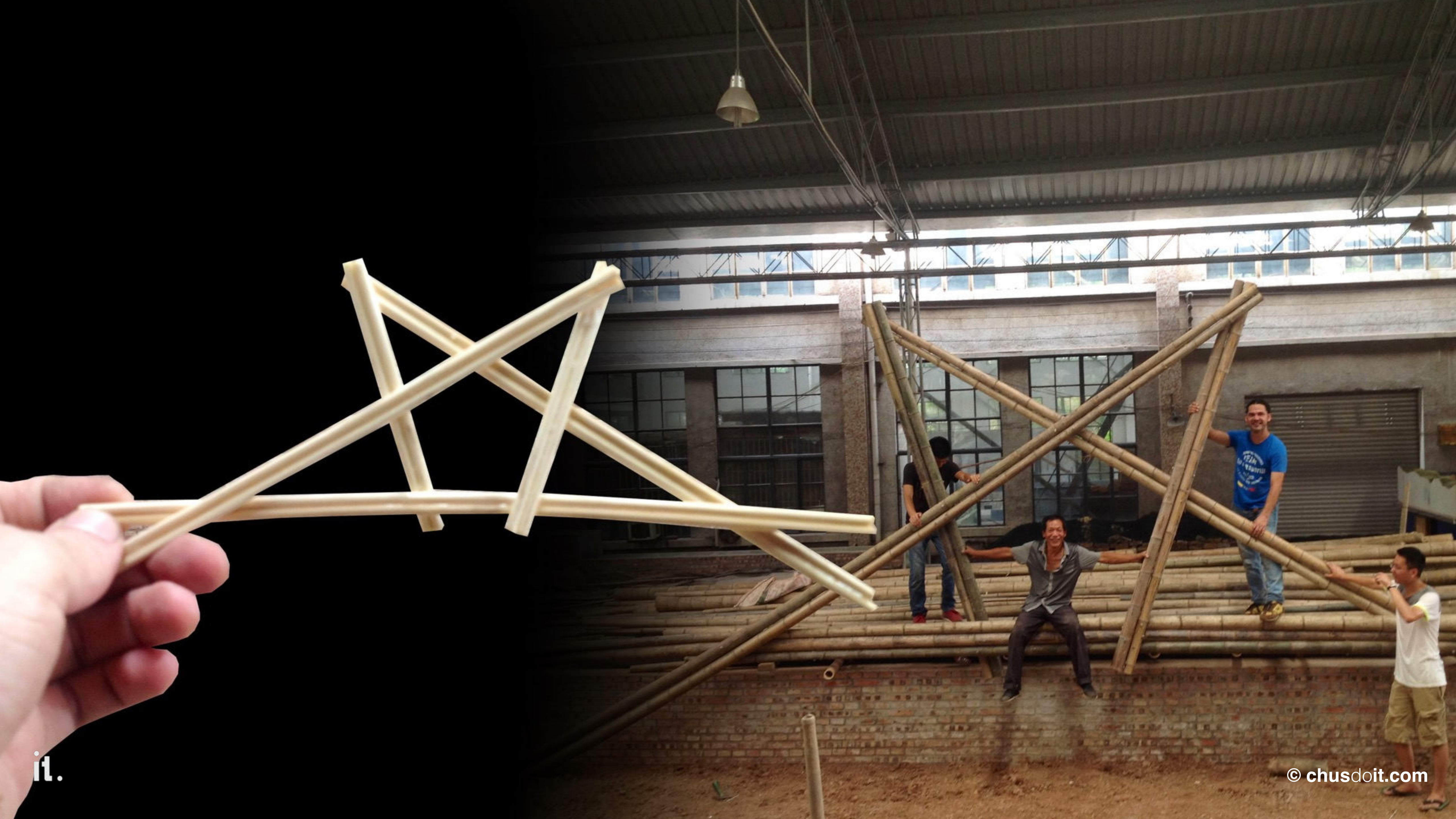
it.



































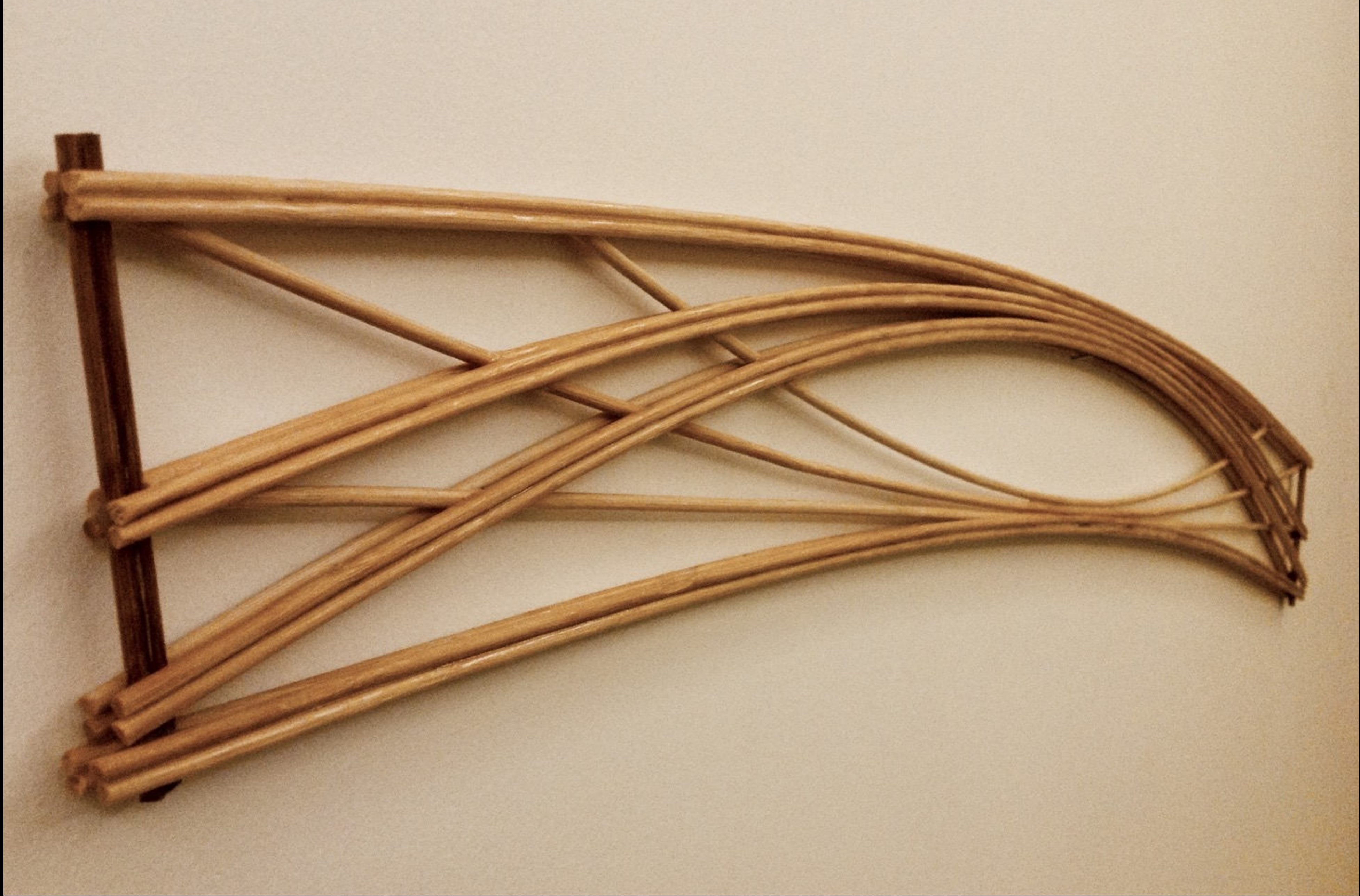


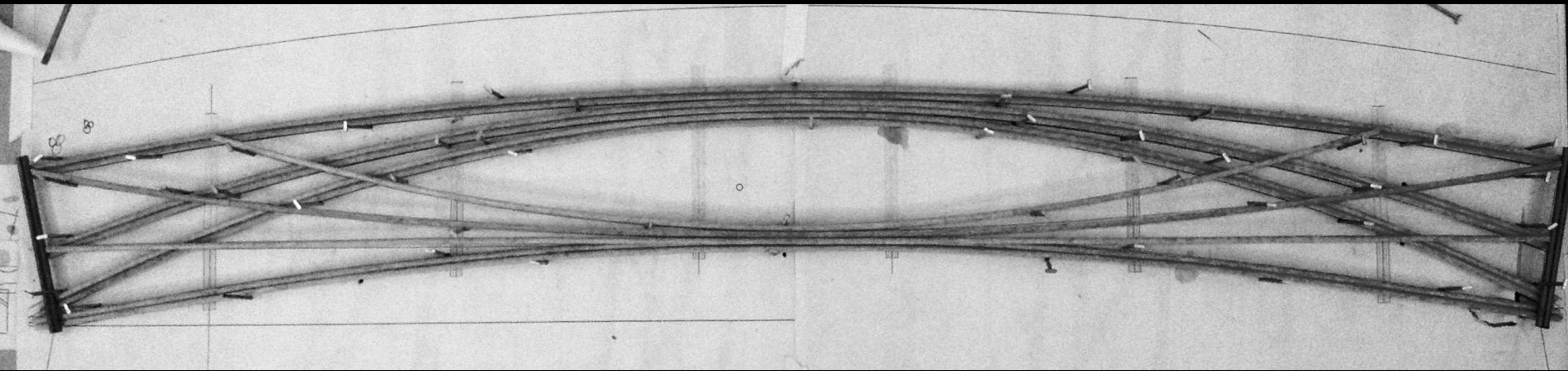




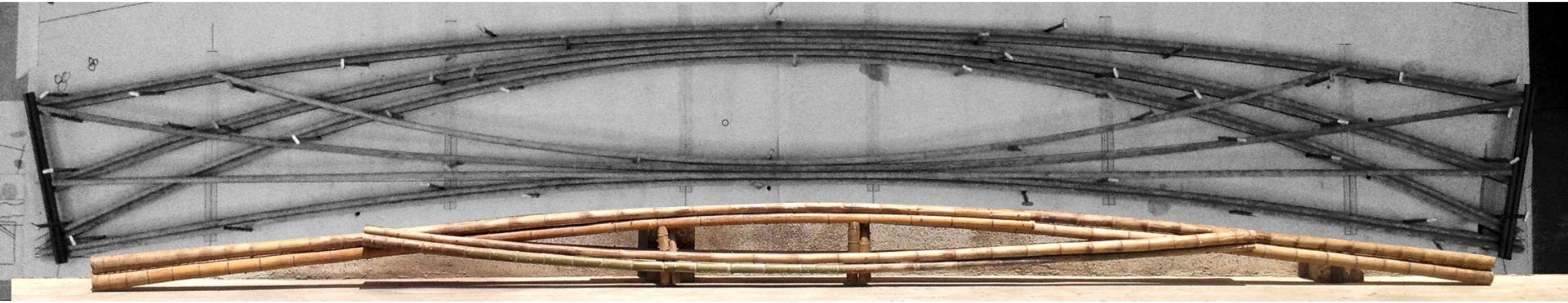




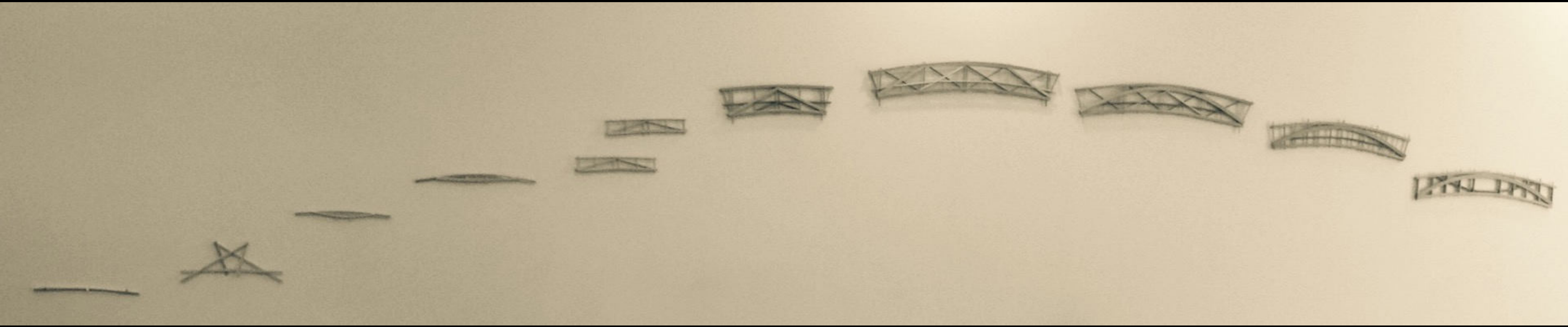




25m



9m











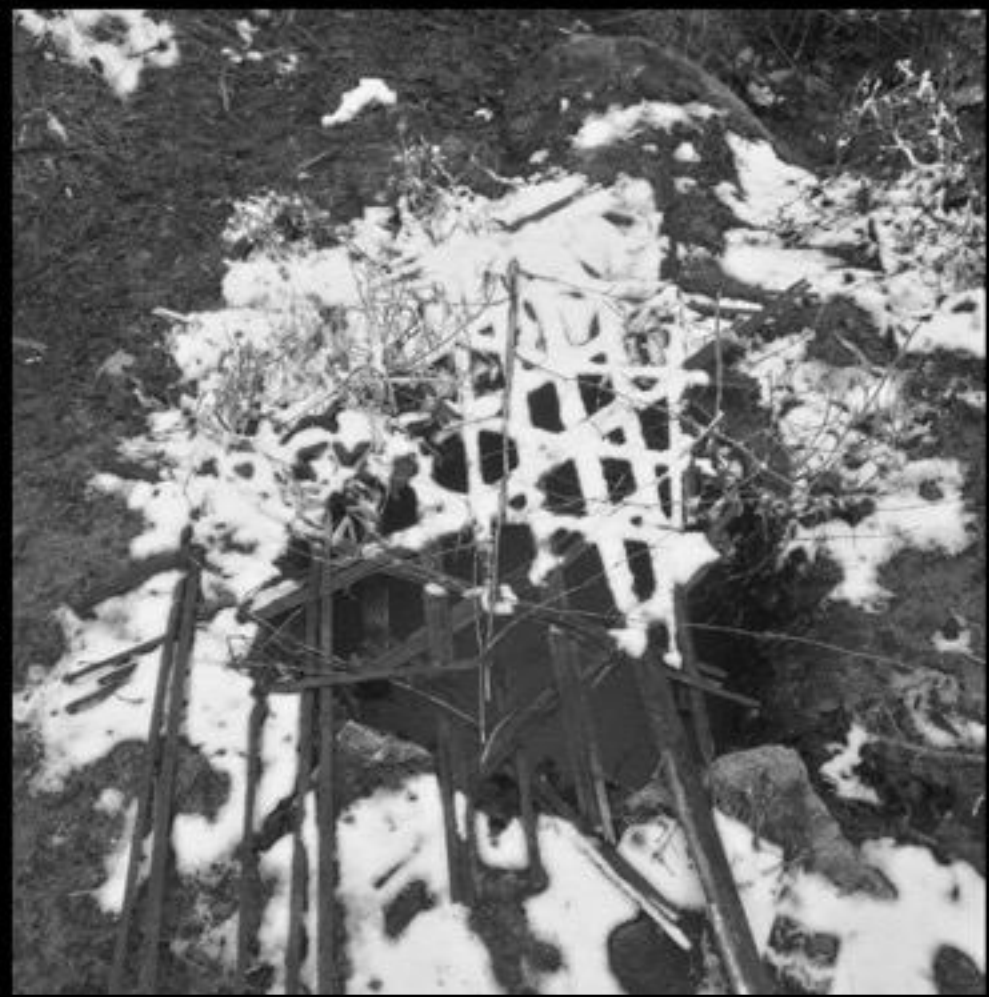










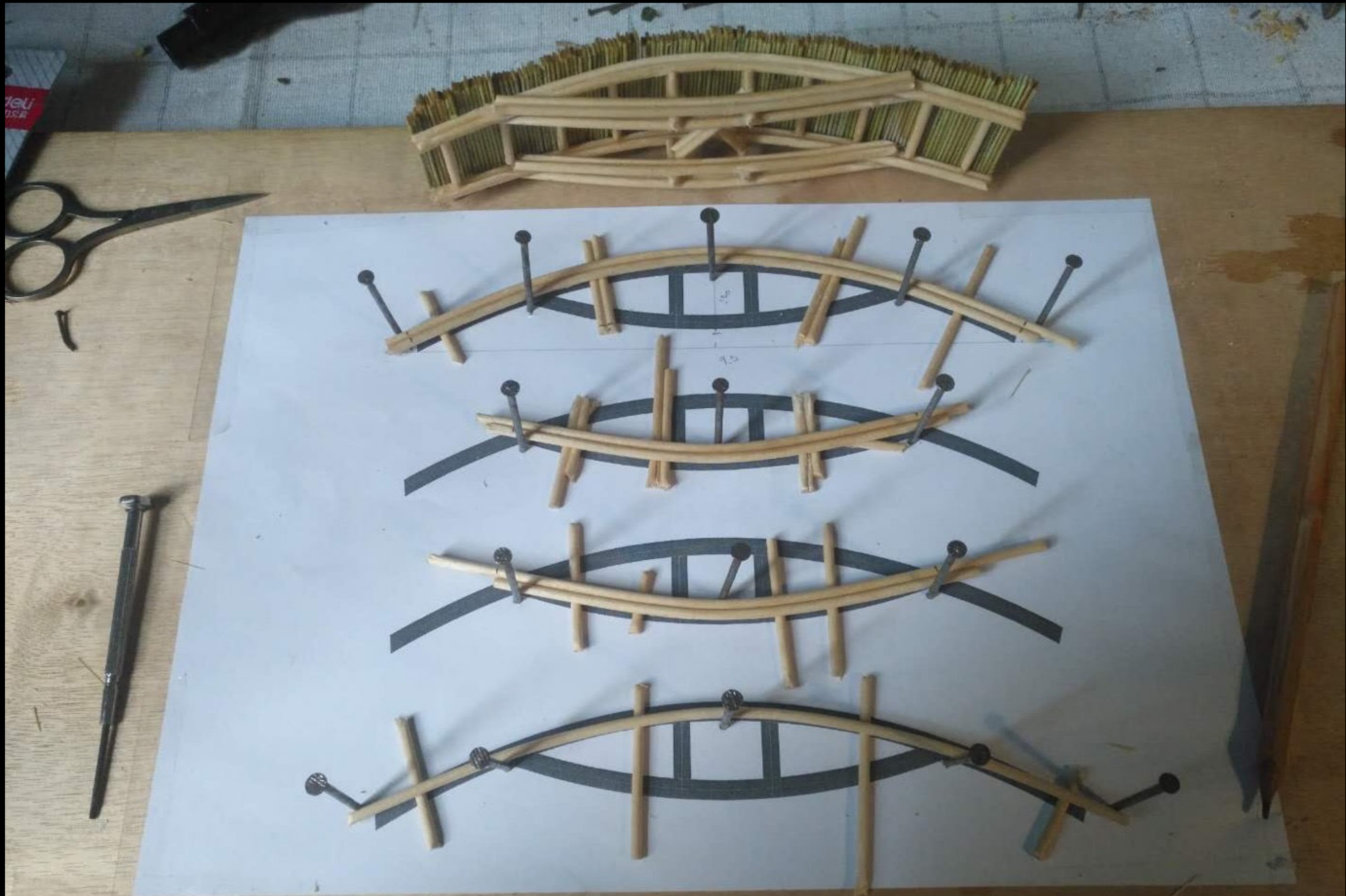






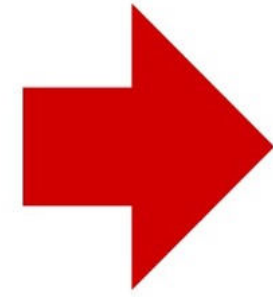


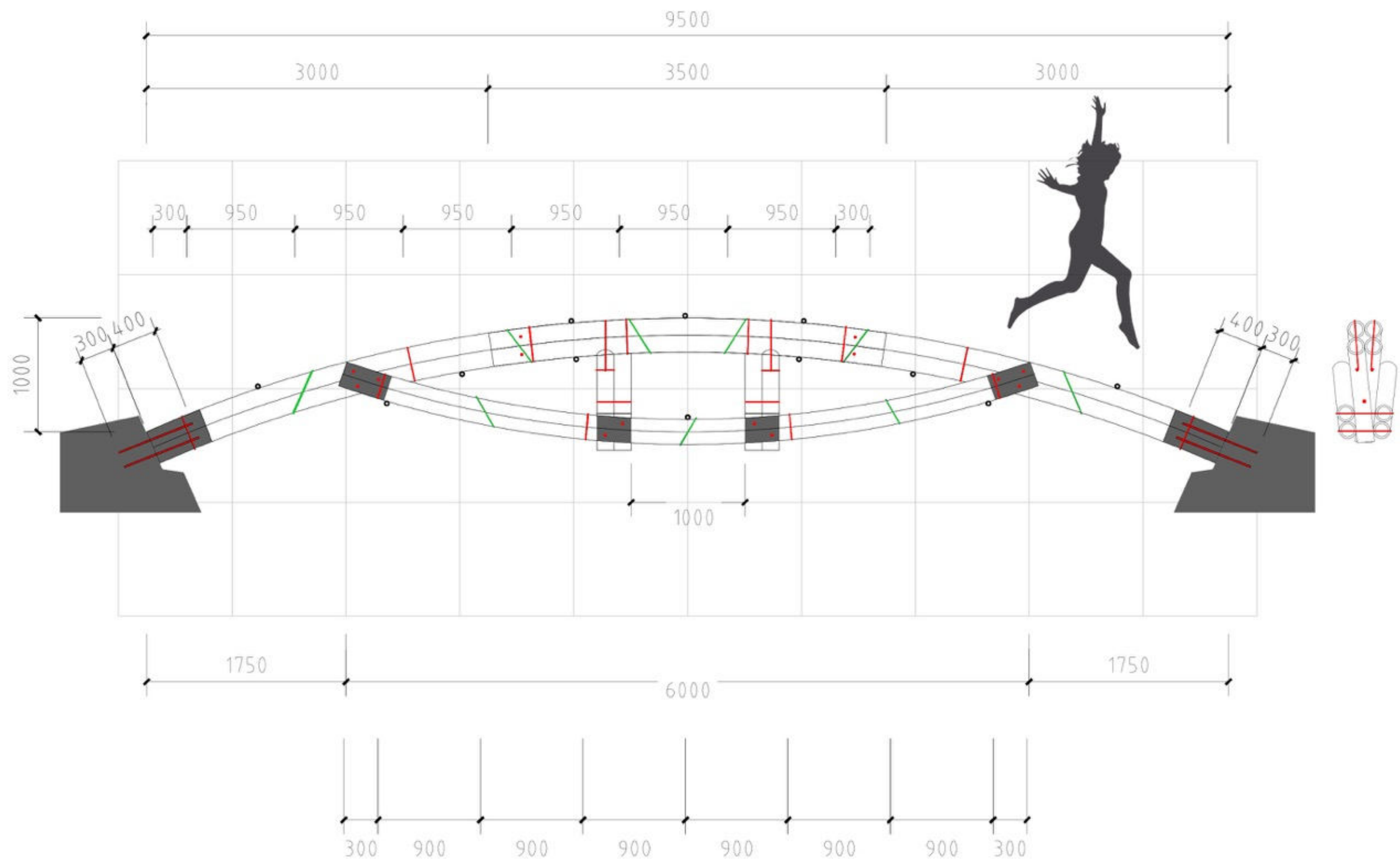


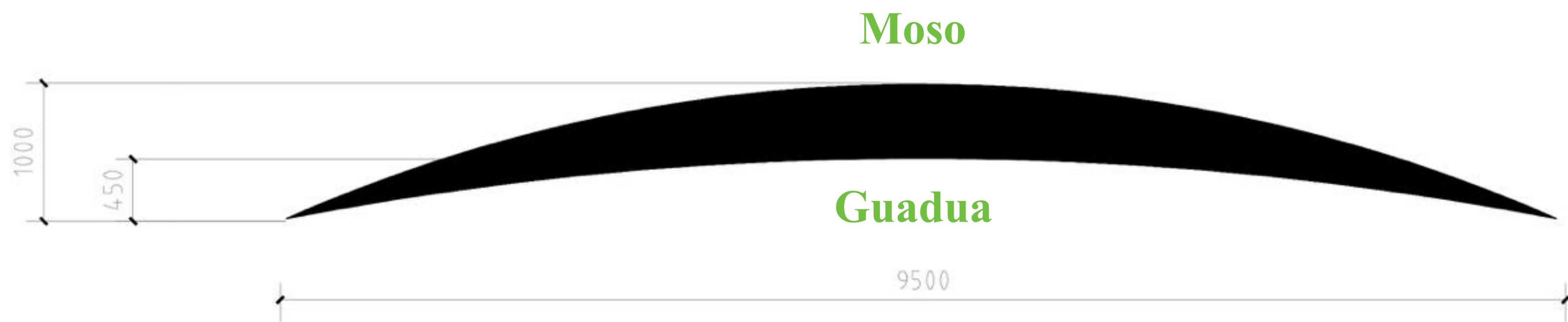












2. ¿Cómo acelerar la transferencia de este conocimiento?

UNIVERSIDADES

Su Rol en la Aceleración de Transferencia Tecnológica de Bambú

Primer Ejercicio Universitario

Wing Pavilion. Guangzhou, China.









BAC Method

(Barcelona Architecture Center)

1.

Observation

2.

Formulation

3.

**Successive
Answers**

4.

Project

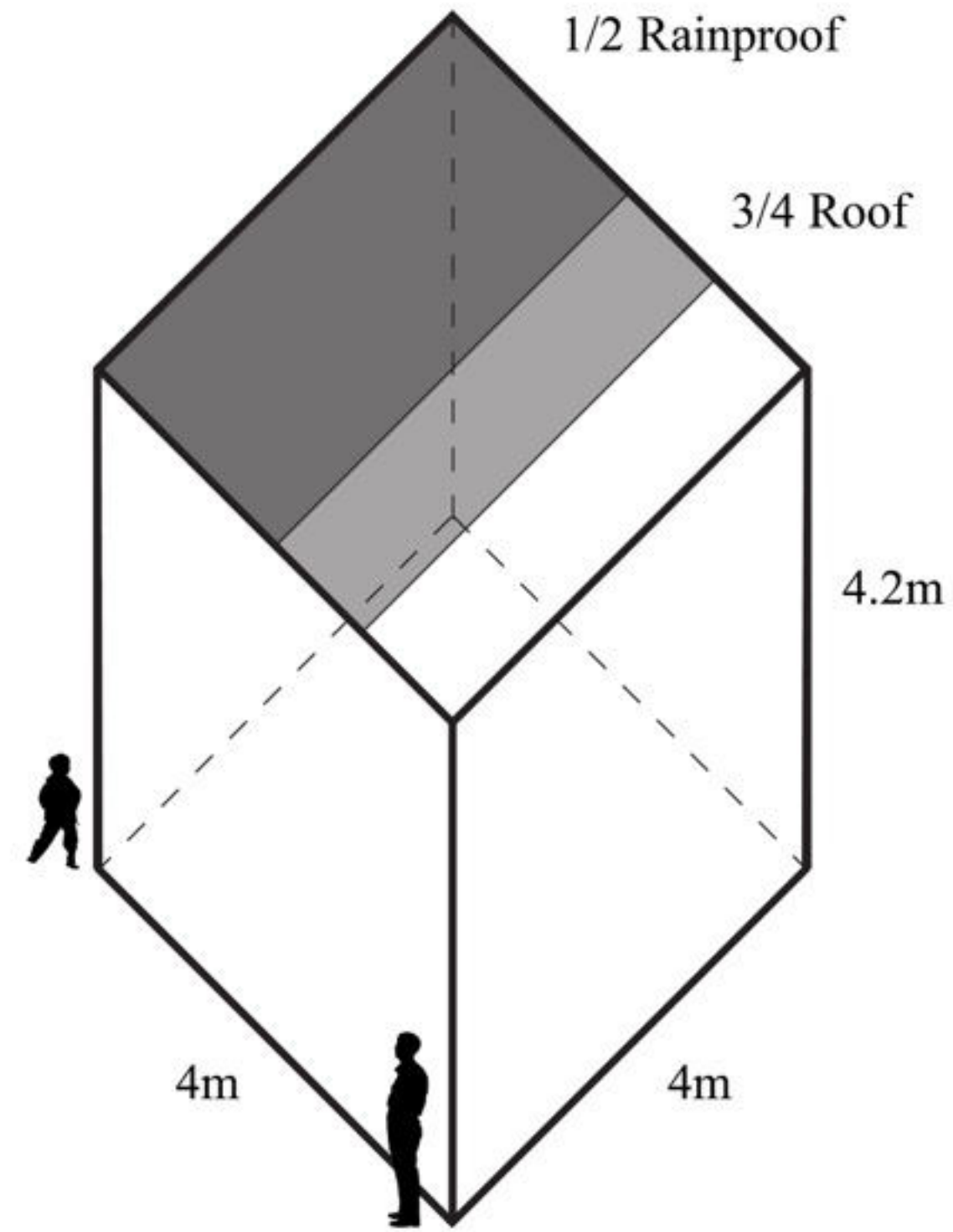
5.

Conclusion

Size limit

4x4x4.2 meters

Roof 3/4 + Rainproof 1/2



1.

Observation

2.

Formulation

3.

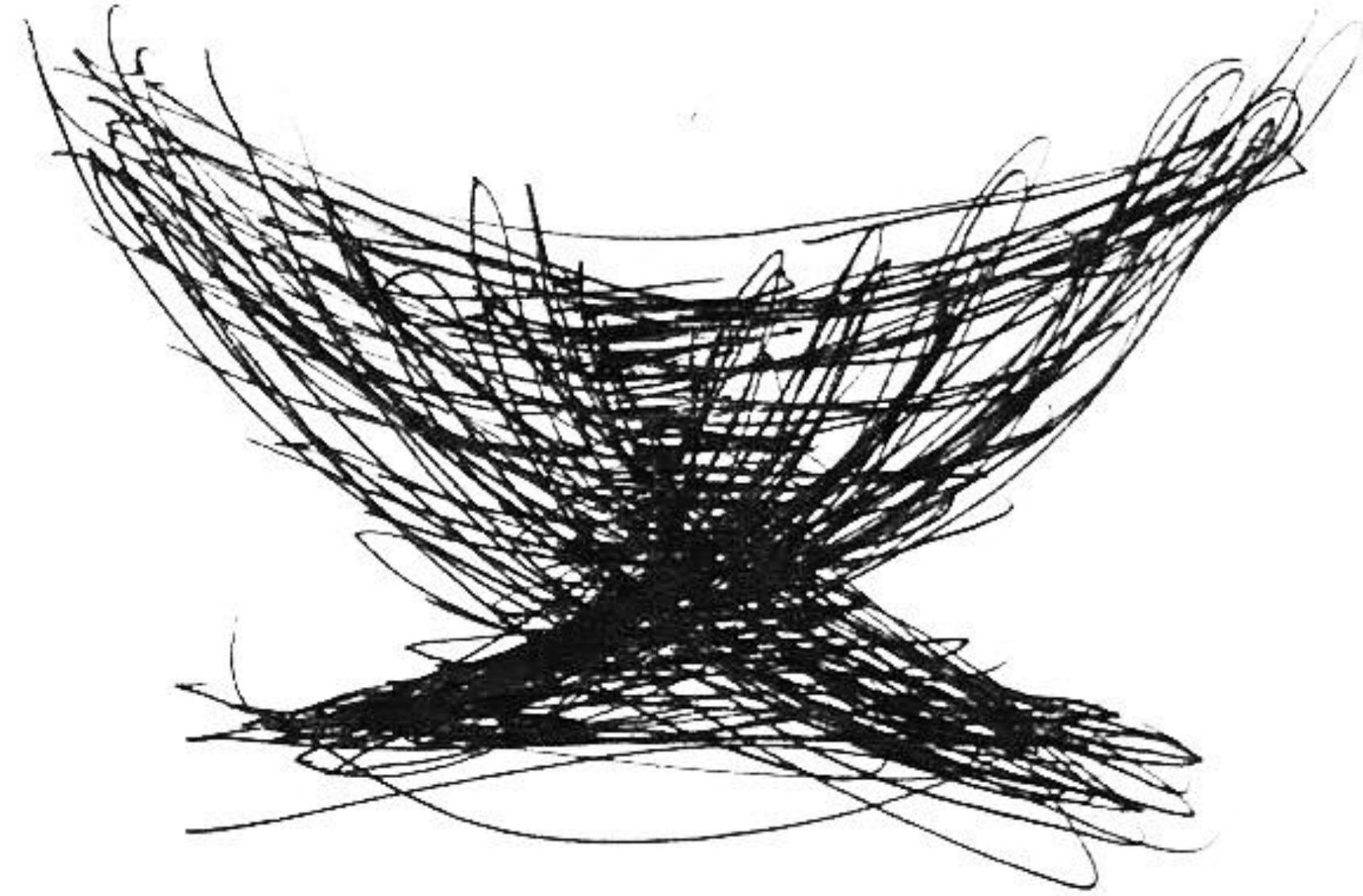
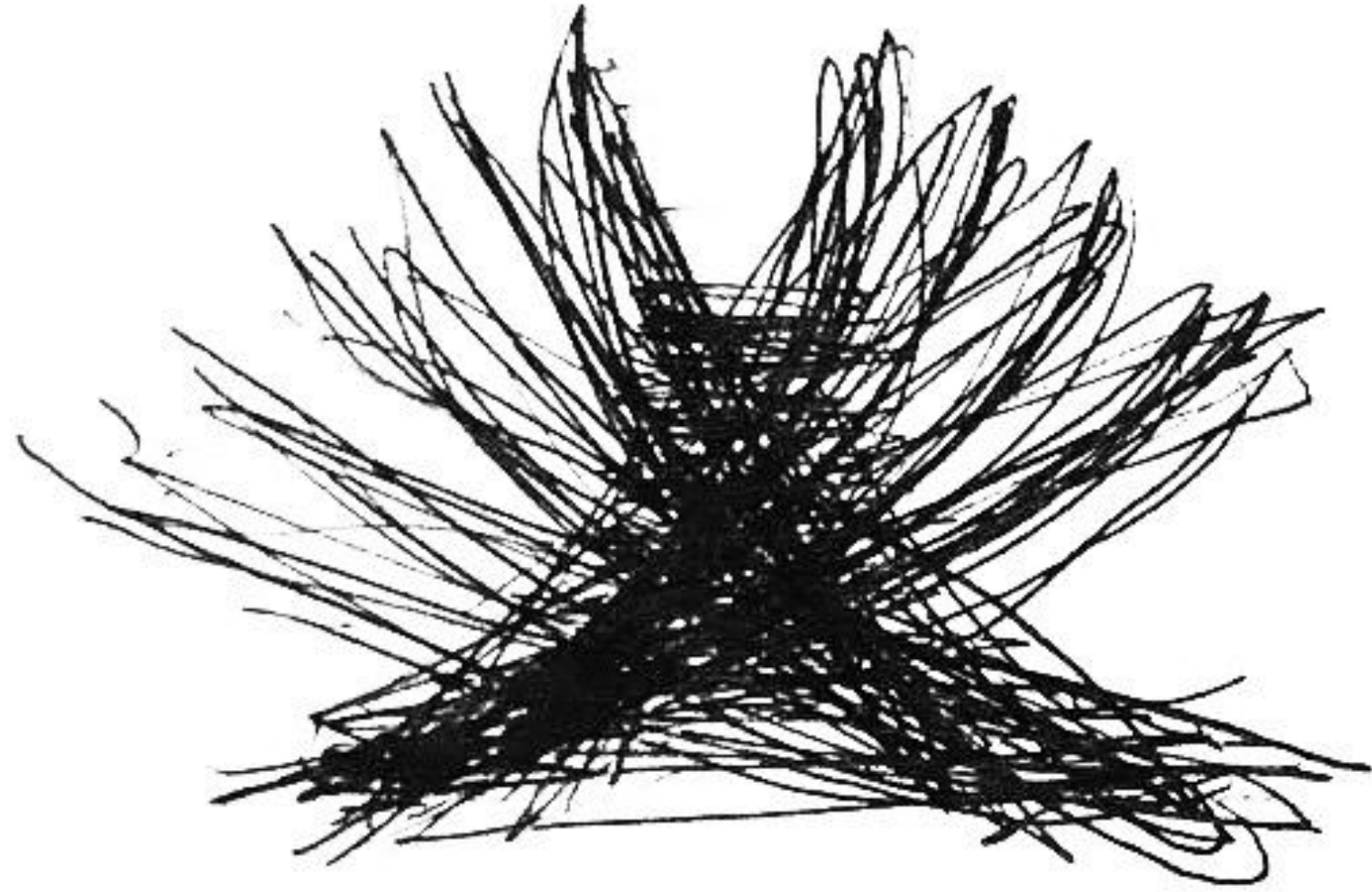
**Successive
Answers**

4.

Project

5.

Conclusion



1.

Observation

2.

Formulation

3.

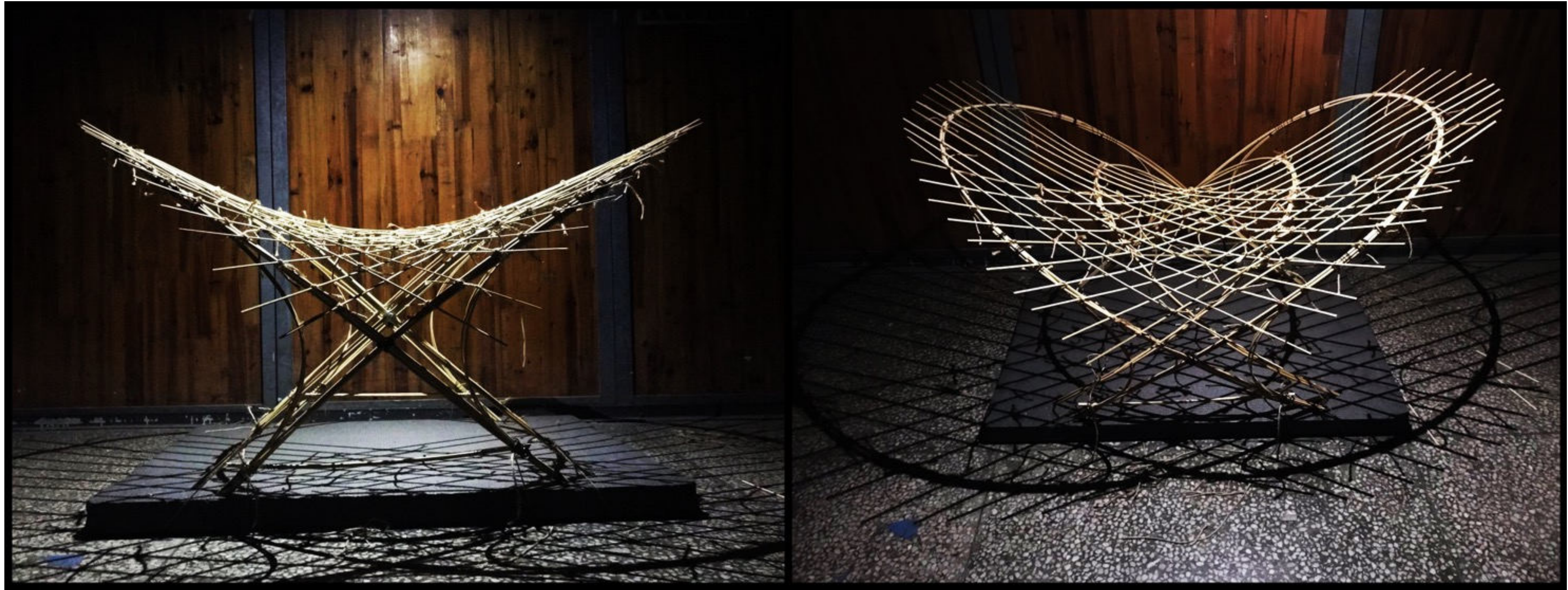
**Successive
Answers**

4.

Project

5.

Conclusion



1.

Observation

2.

Formulation

3.

**Successive
Answers**

4.

Project

5.

Conclusion



1.

Observation

2.

Formulation

3.

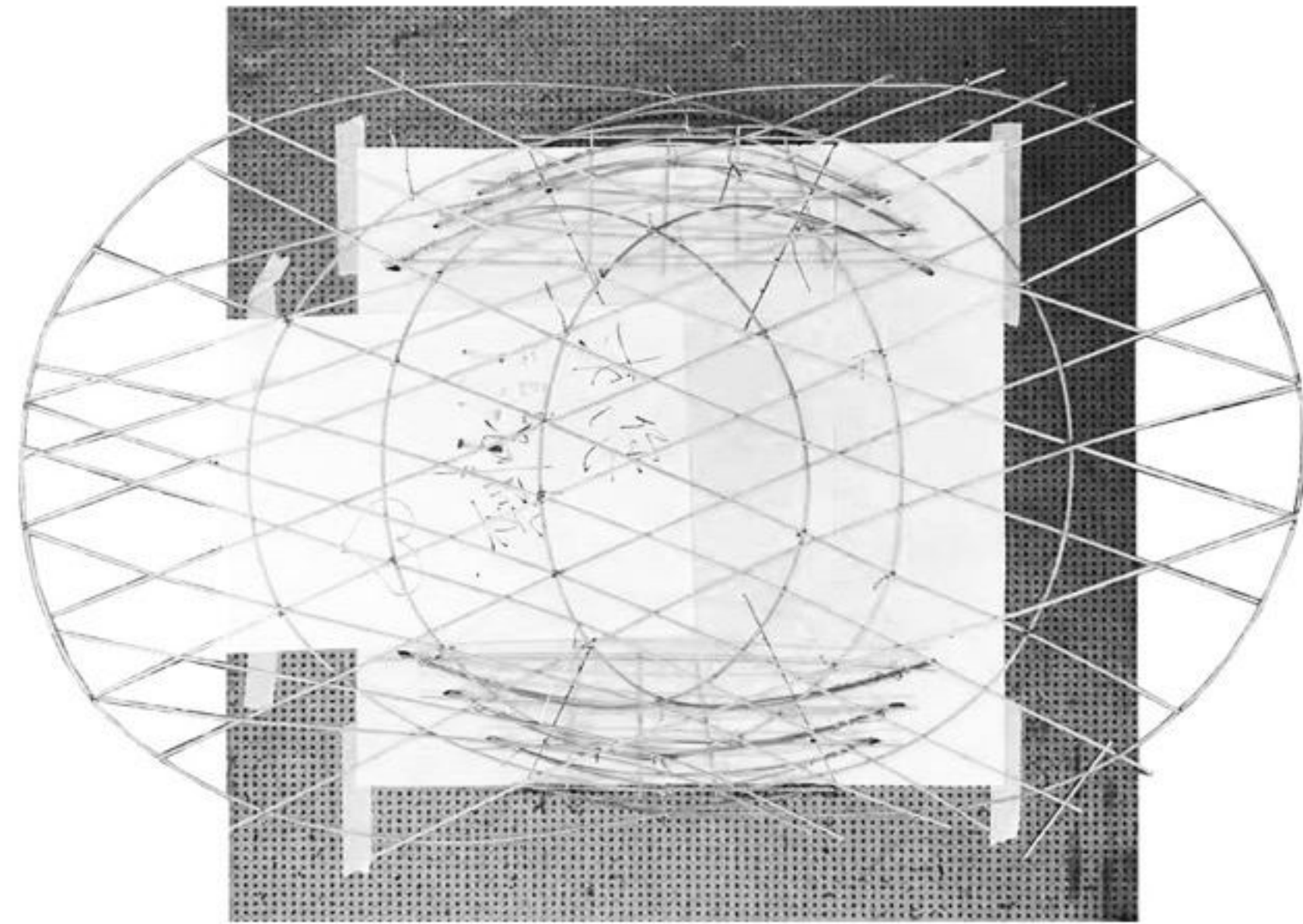
**Successive
Answers**

4.

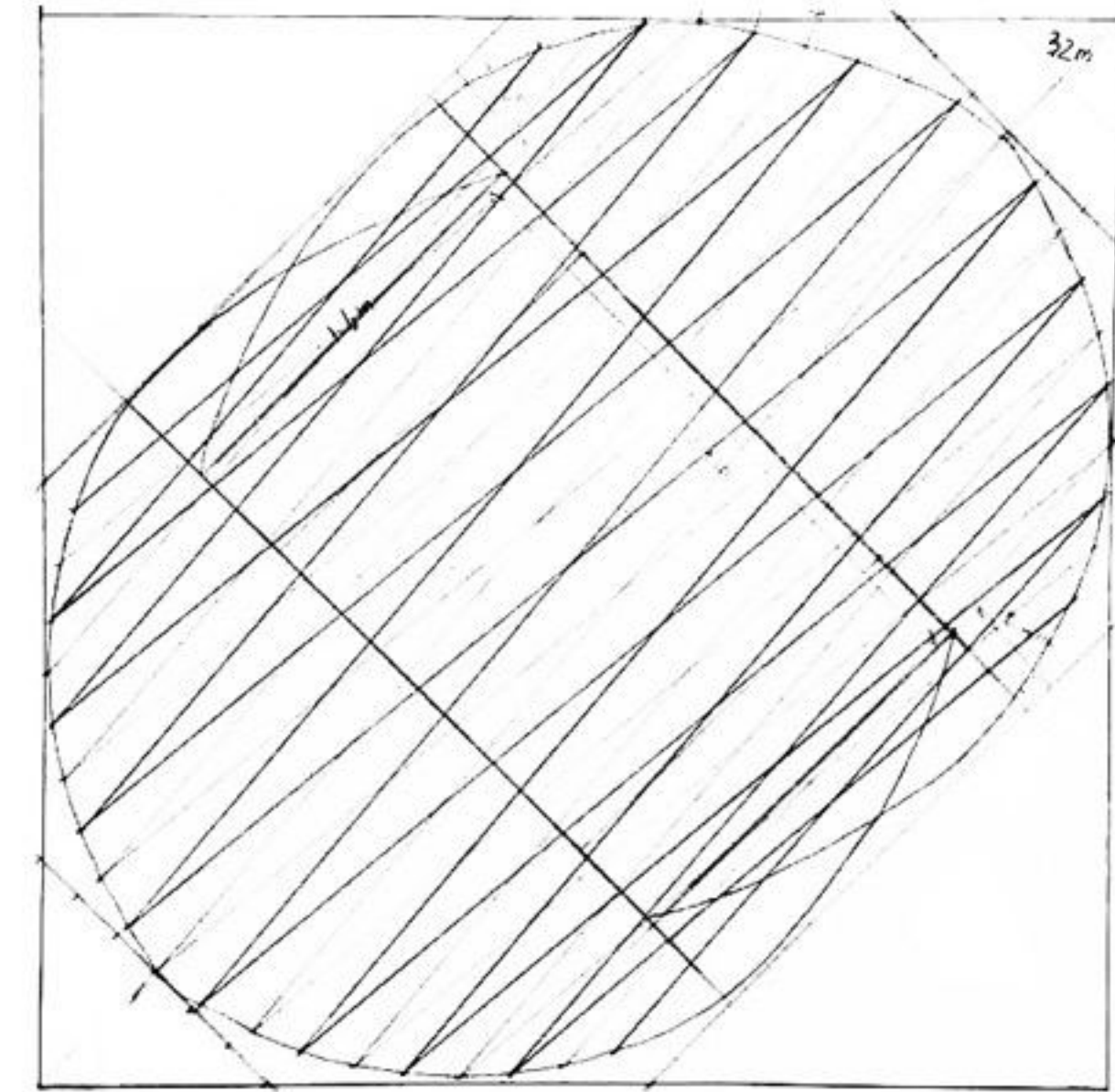
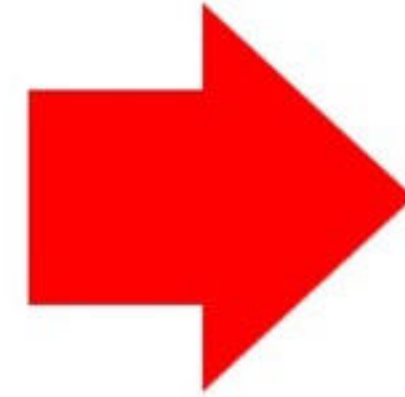
Project

5.

Conclusion



4x4m



4x4m

1.

Observation

2.

Formulation

3.

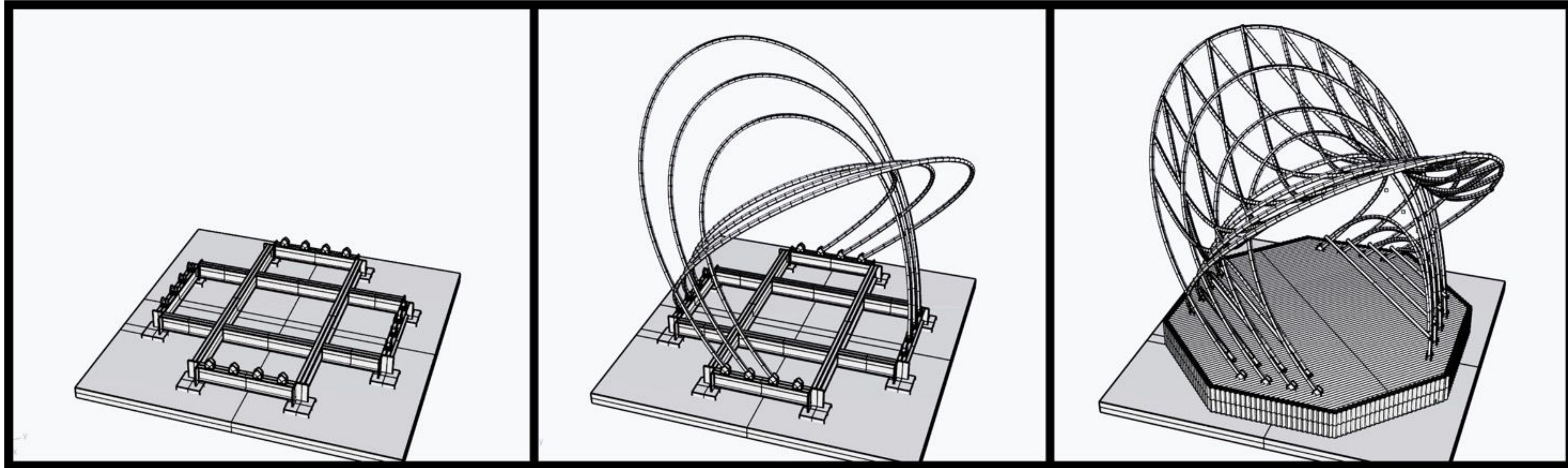
**Successive
Answers**

4.

Project

5.

Conclusion



1.

Observation

2.

Formulation

3.

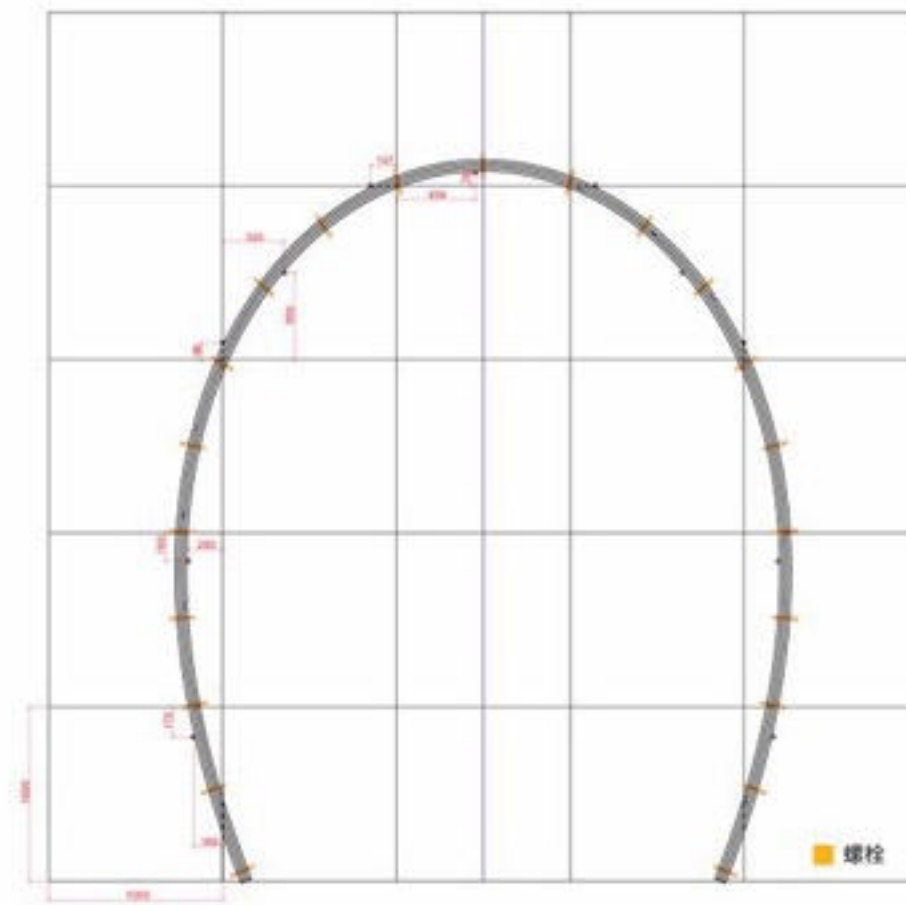
**Successive
Answers**

4.

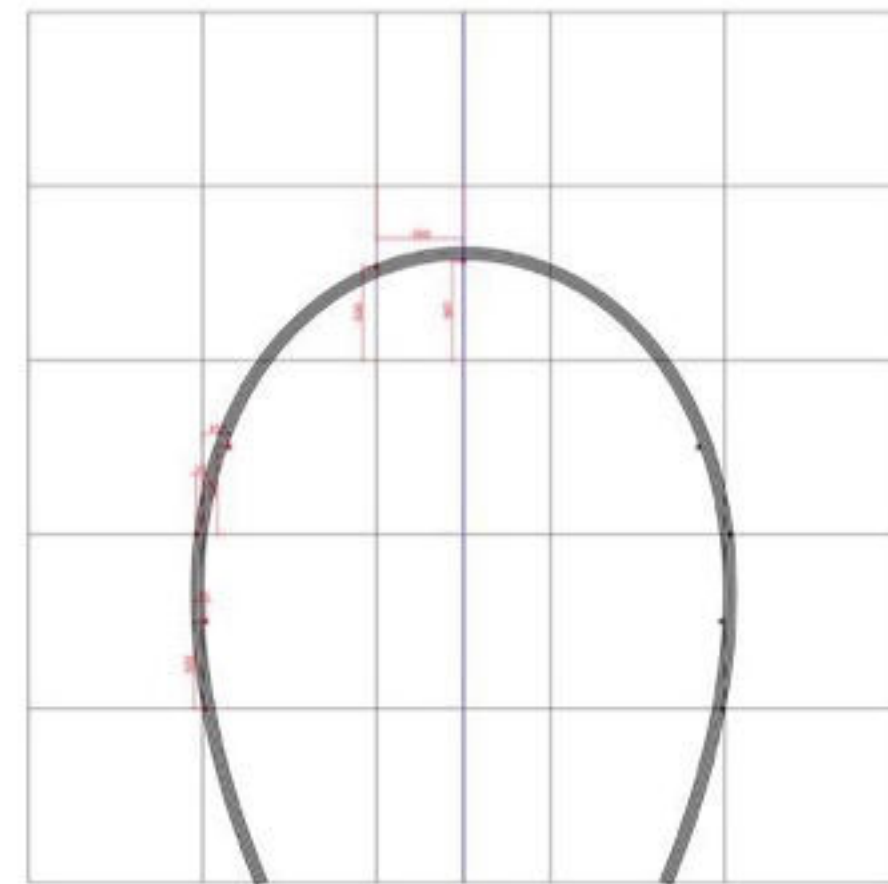
Project

5.

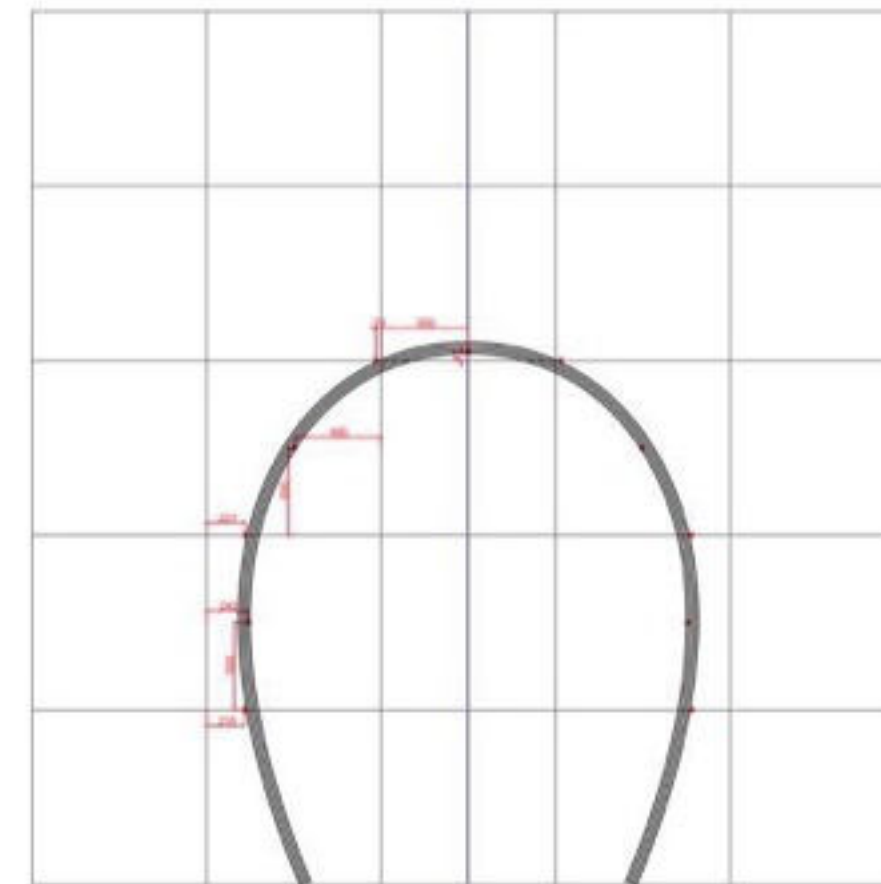
Conclusion



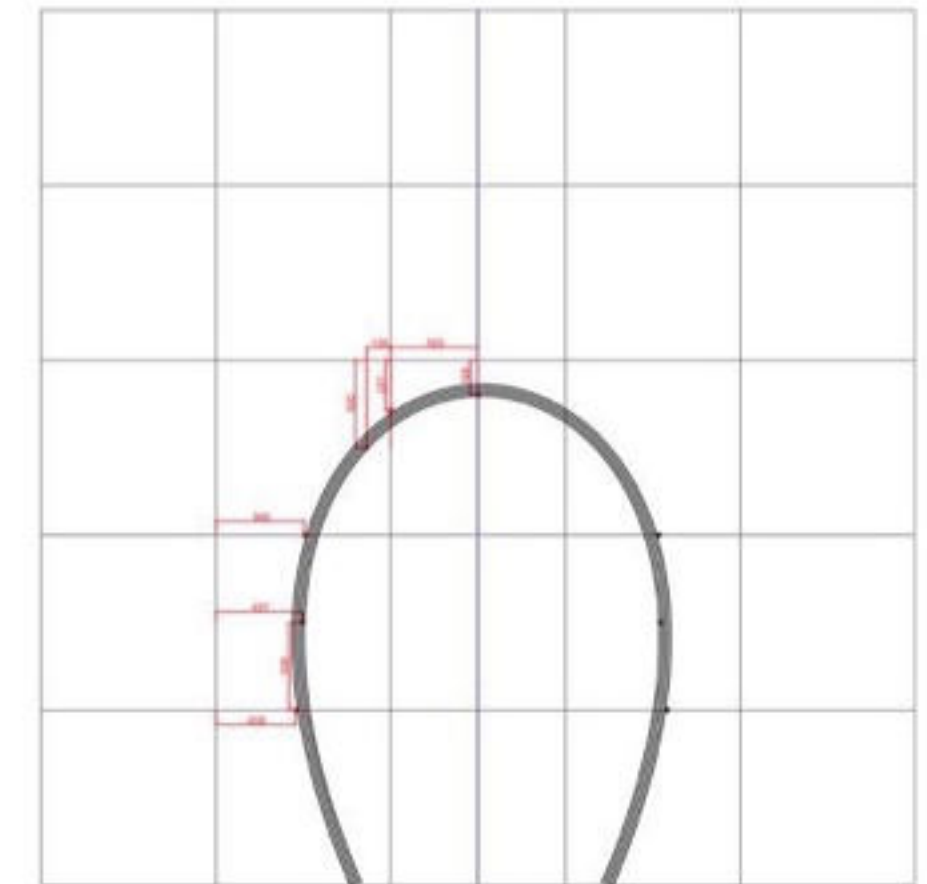
Arc 1



Arc 2



Arc 3



Arc 4

1.

Observation

2.

Formulation

3.

**Successive
Answers**

4.

Project

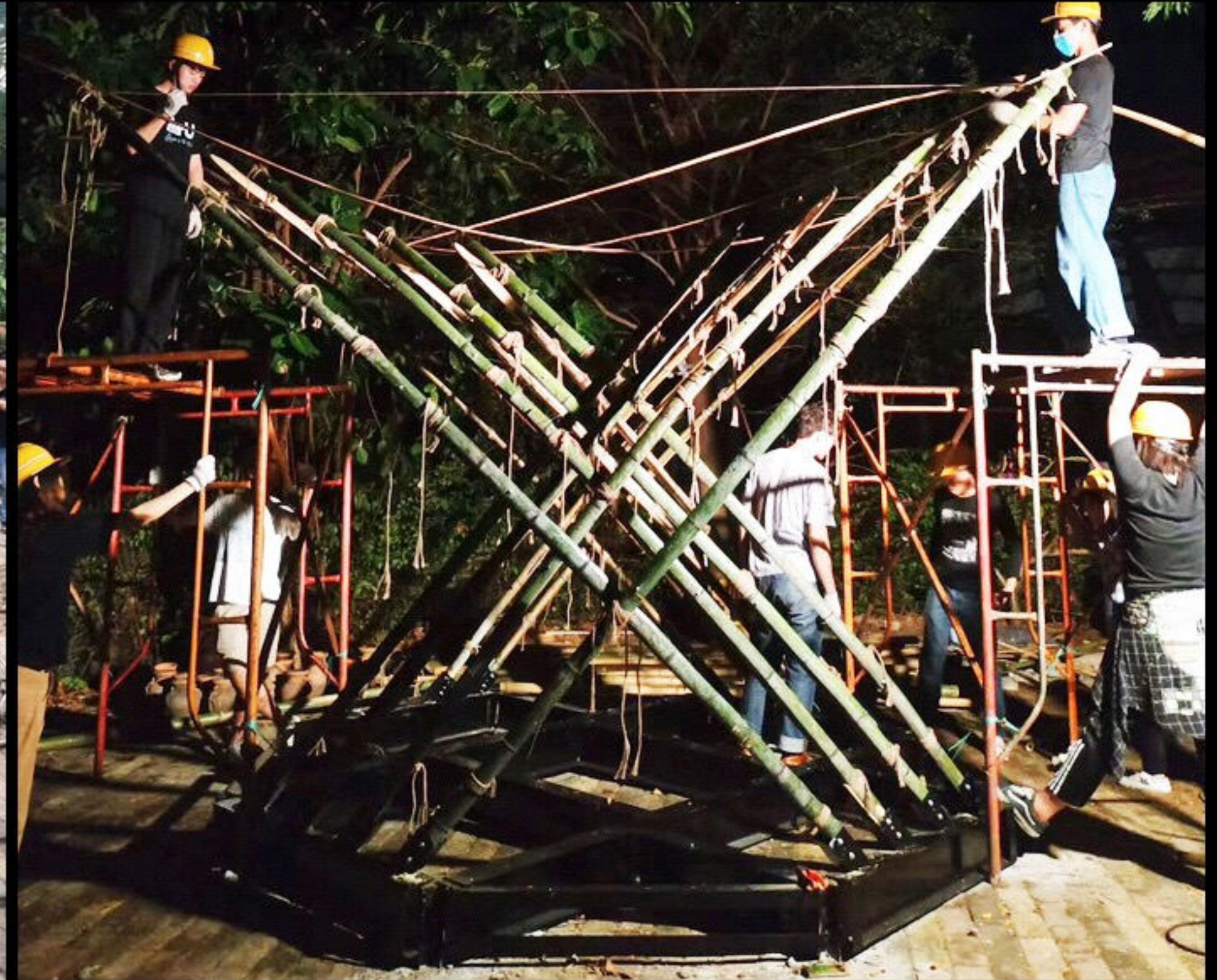
5.

Conclusion











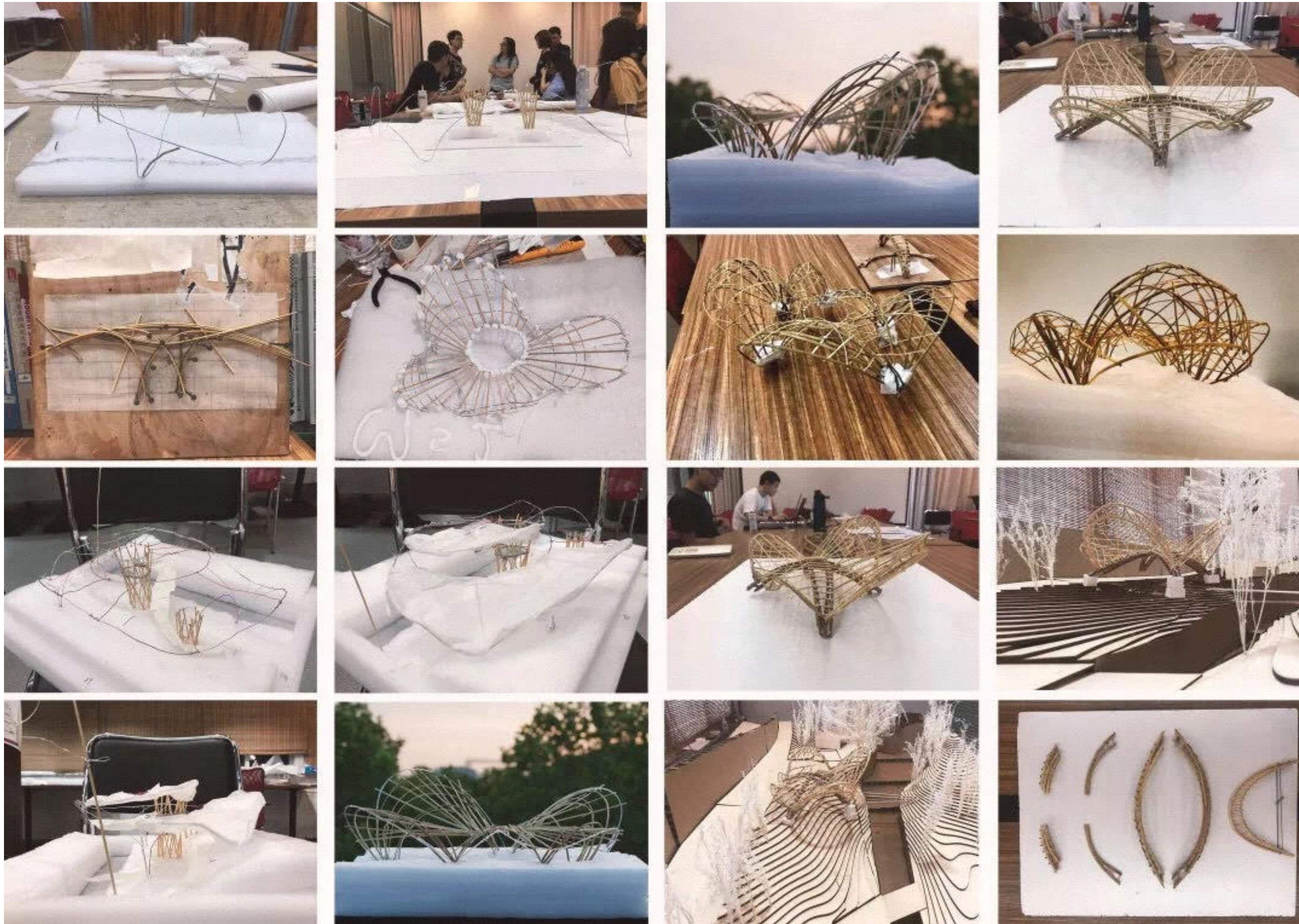


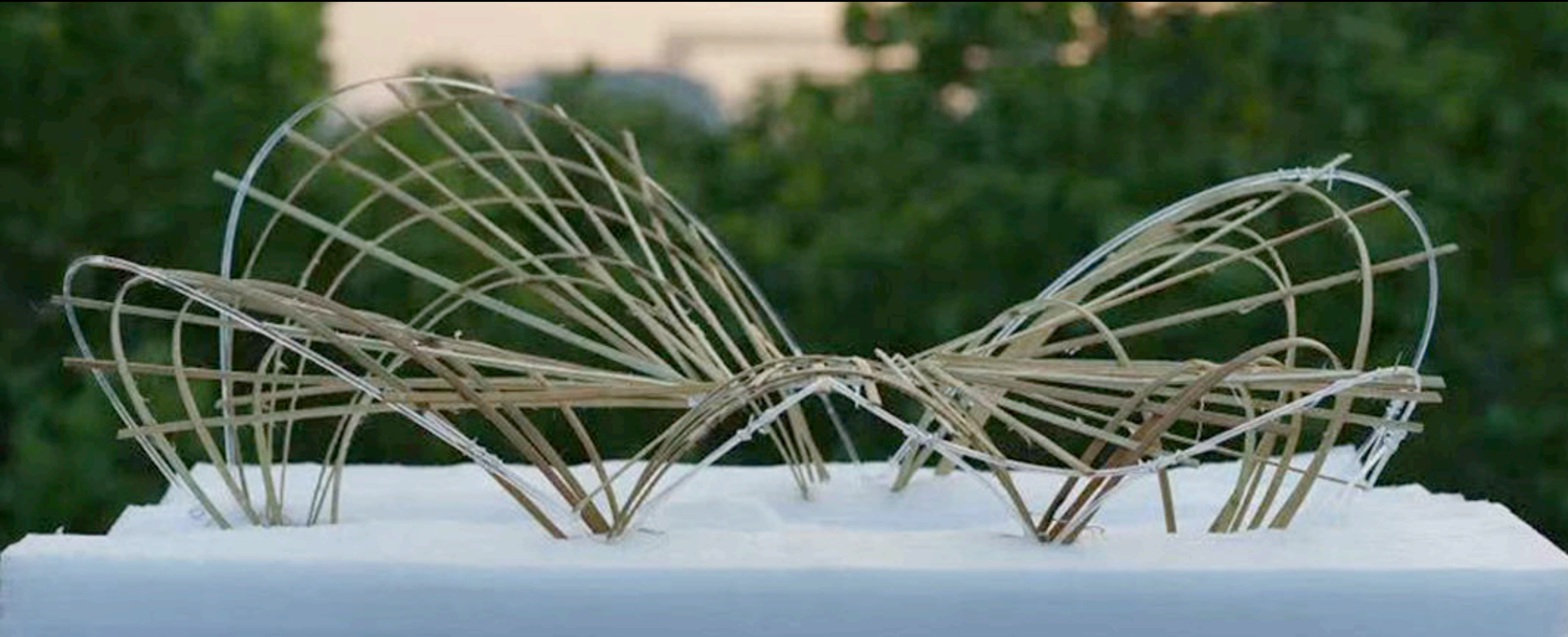
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chusdoit.com/wing-pavilion-article

Segundo Ejercicio Universitario

Anji Pavilion. Zhejiang, China.



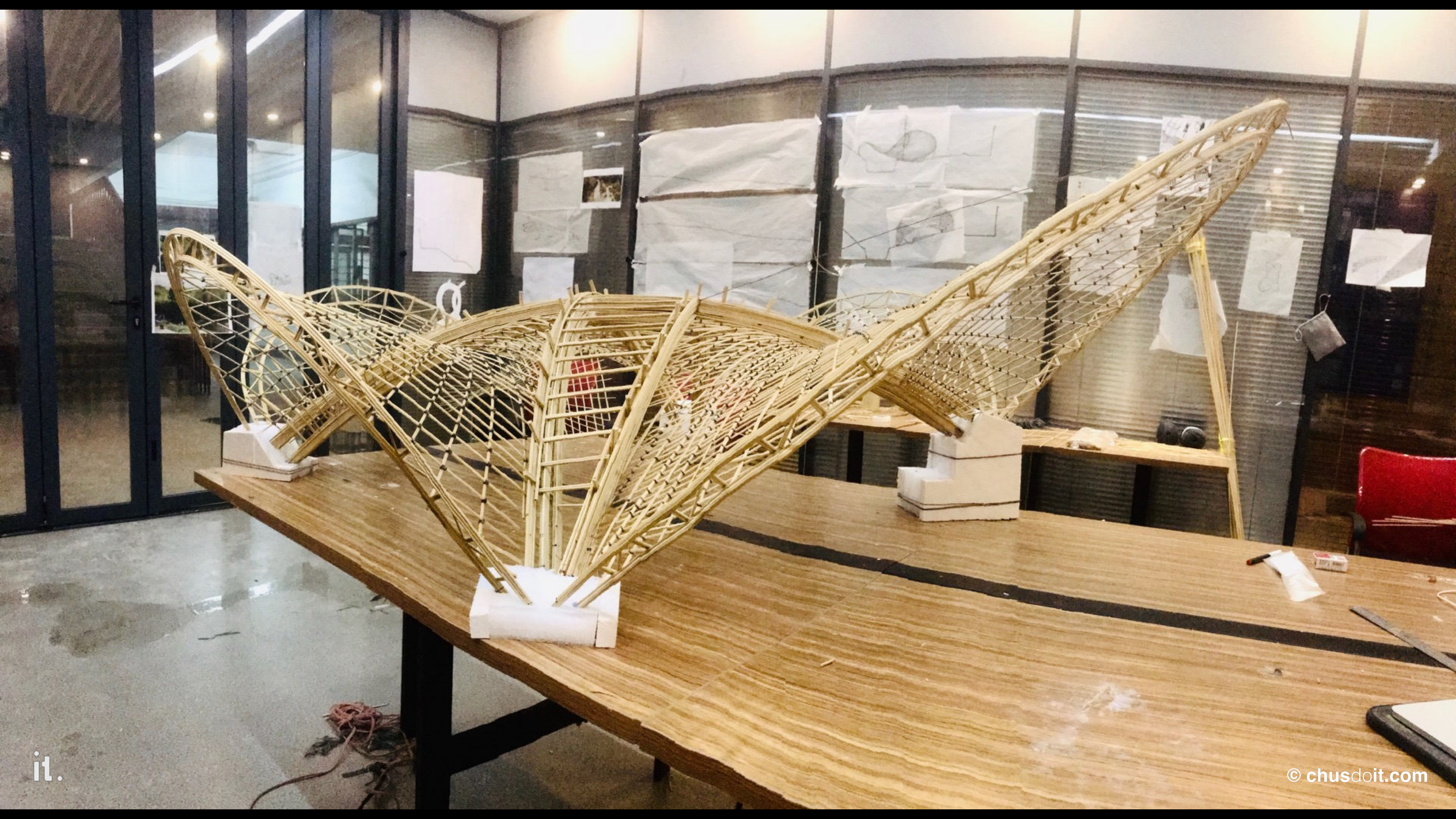






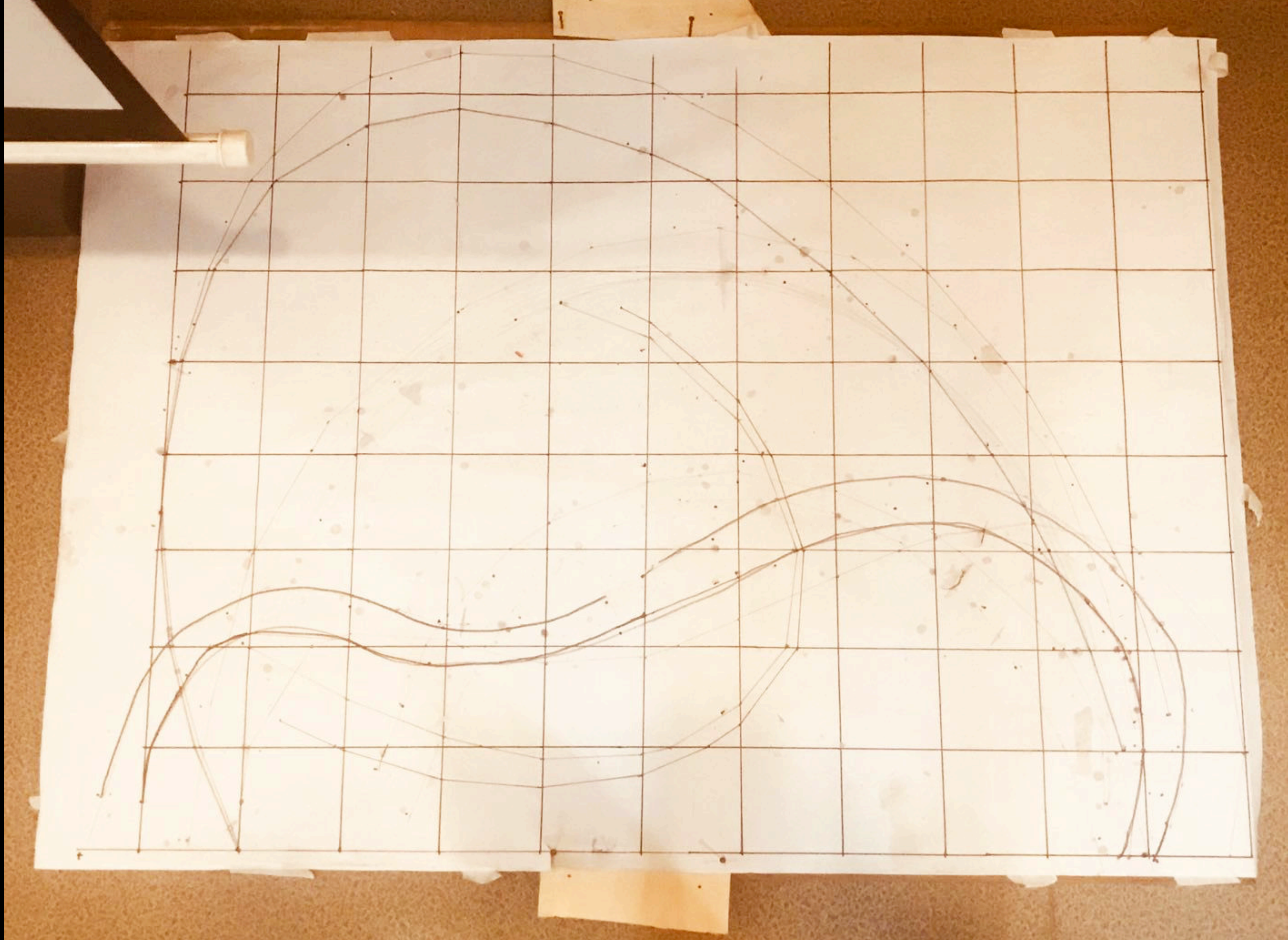


















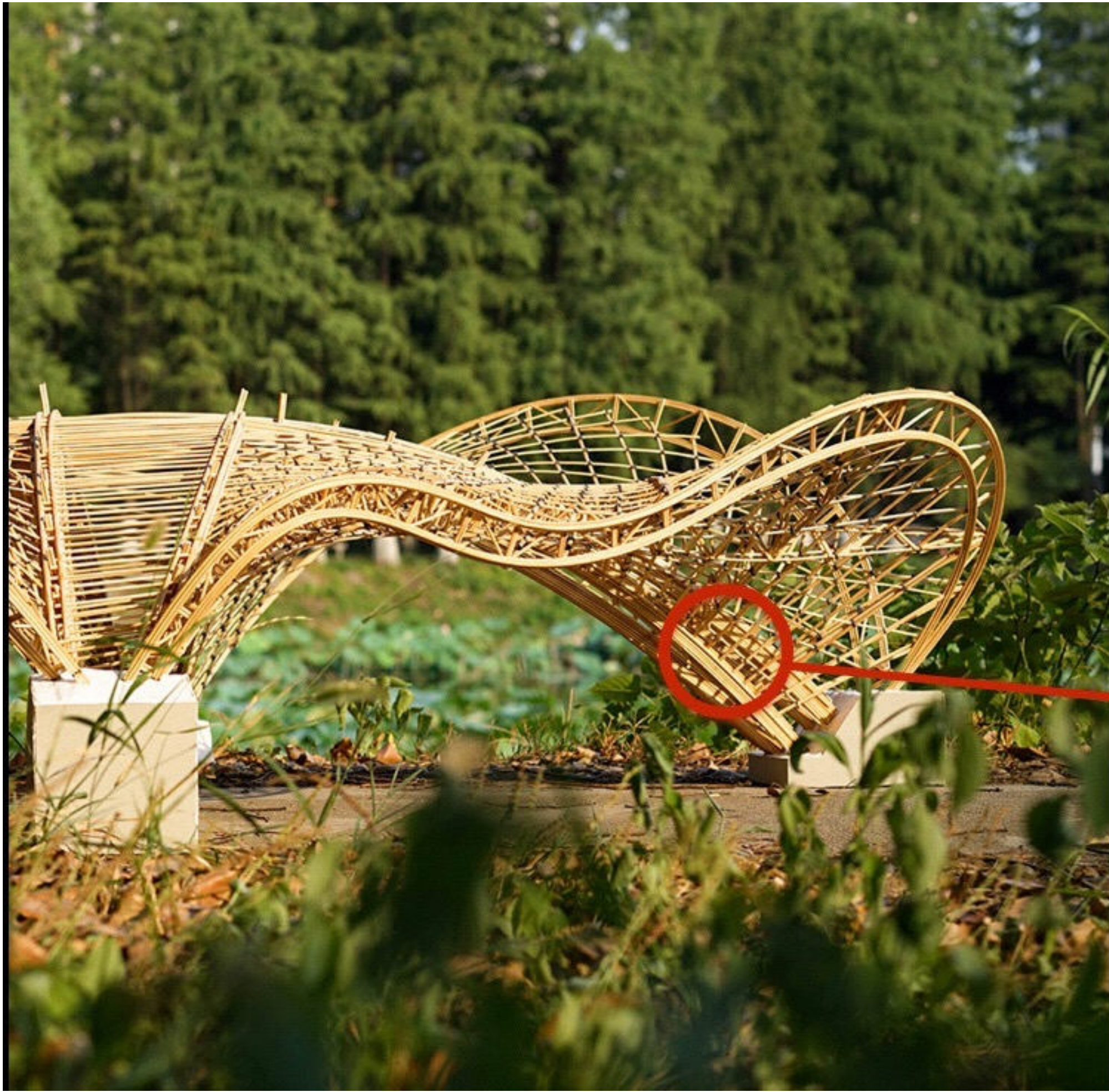
















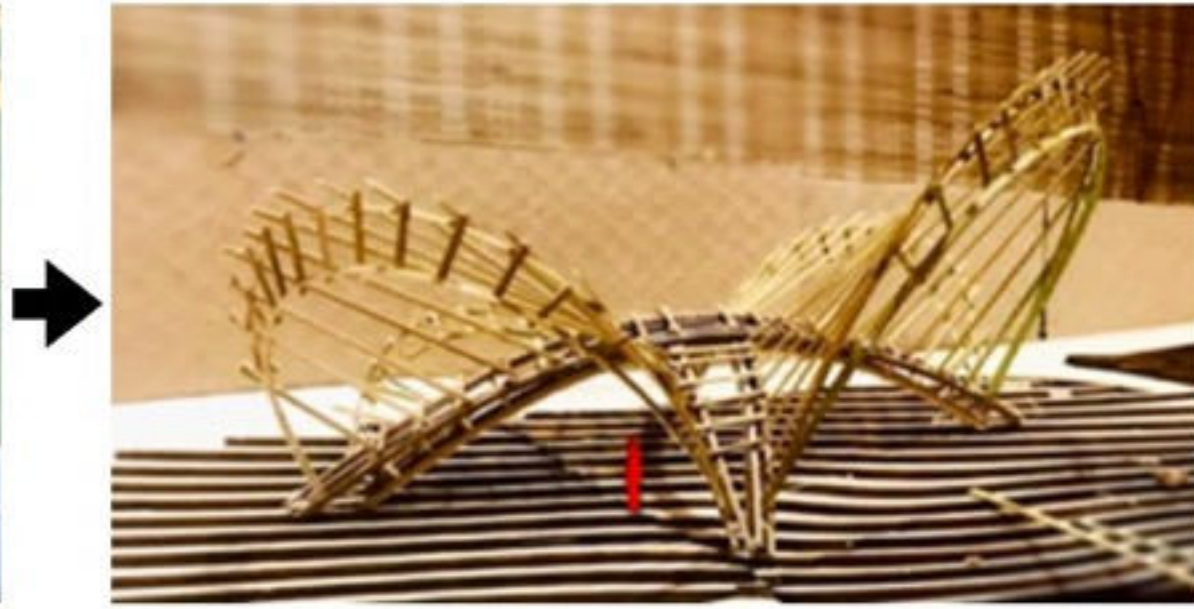






1. Ideas' assessment

More than ten concepts were developed by students and teachers during the assessment.



2. Scaled model 1:50

Finding the constructive system through model-making. (Combination of Rhino/Grasshopper).



3. Scaled model 1:10

This scale allows us to determine with more detail the proposed construction system of the last step



4. Prototype section 1:1

This was an opportunity for tech-transfer to younger students and workers.



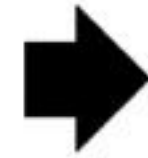
5. Model 1:1

Because the lack of structural calculation, builders used metallic pieces hidden the bamboo structure.



6. Final result

Ultimately, the roof structure stayed hidden. It was covered by another layer of decorative, organic material.















1er. Ejercicio Universitario



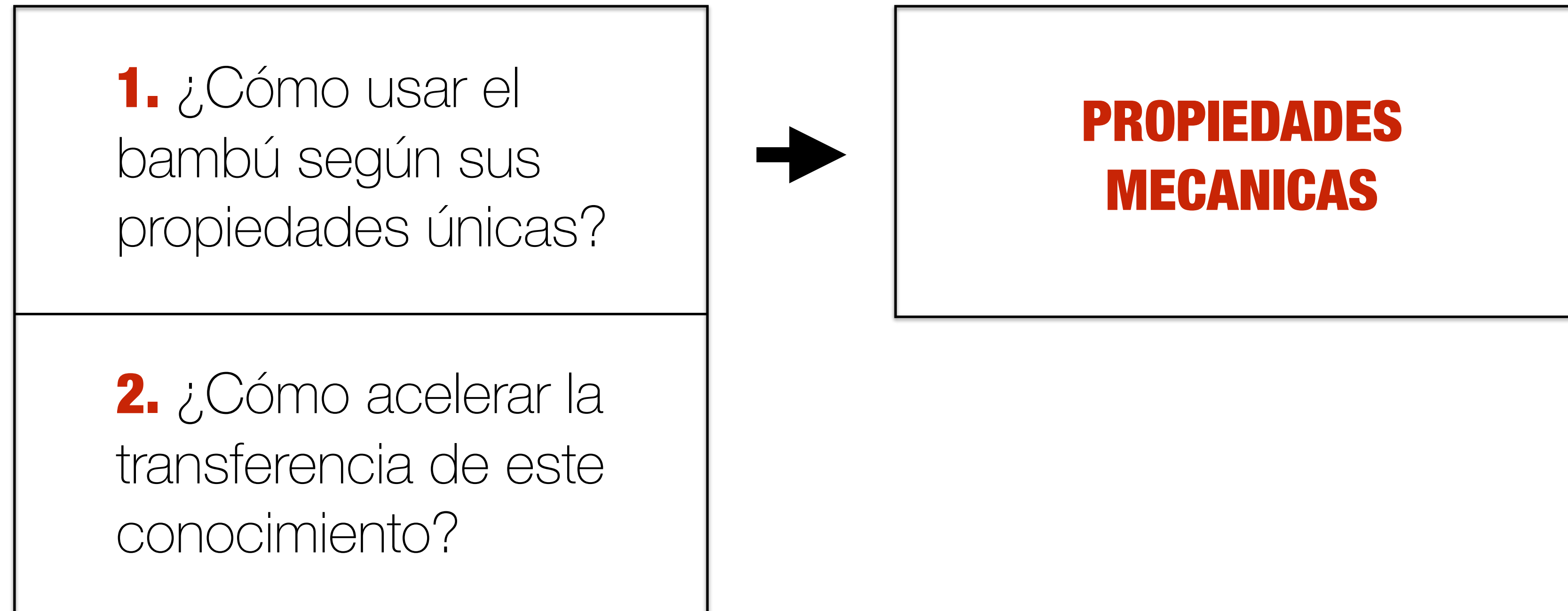
2do. Ejercicio Universitario

EL ROL DEL MODELO A ESCALA:

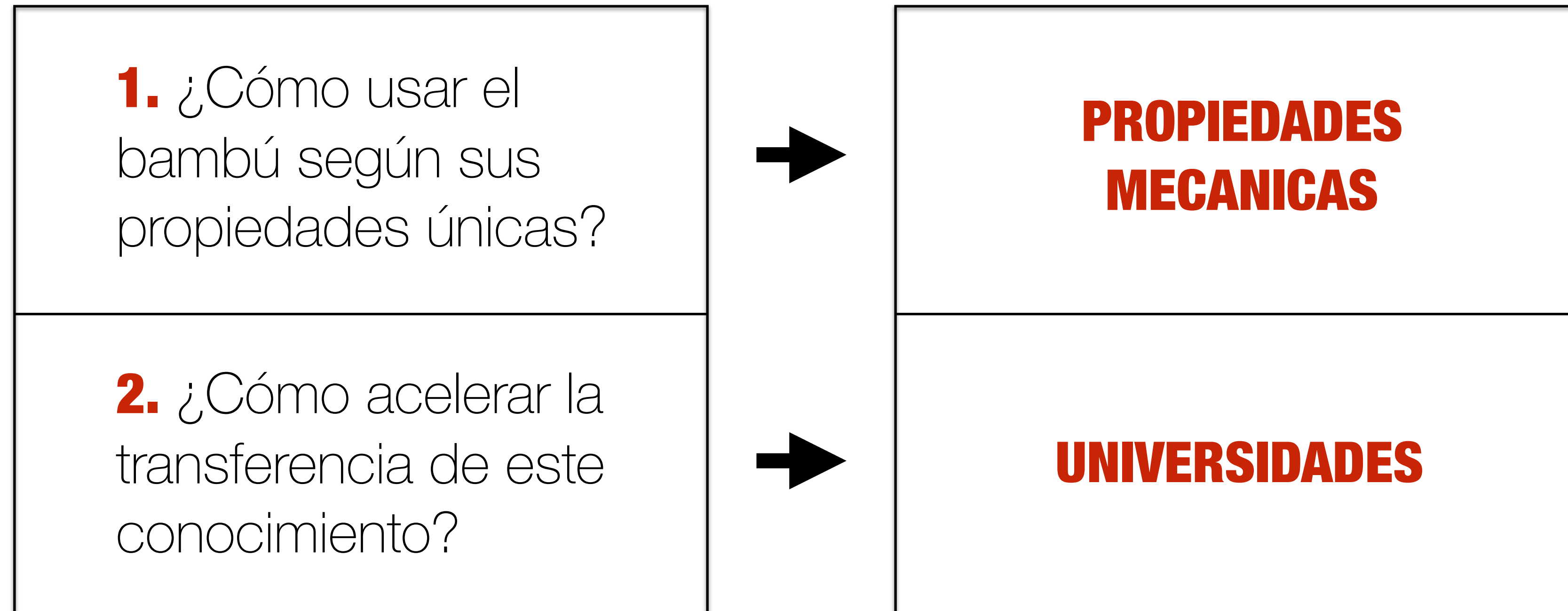
1. ¿Cómo usar el bambú según sus propiedades únicas?

2. ¿Cómo acelerar la transferencia de este conocimiento?

EL ROL DEL MODELO A ESCALA:



EL ROL DEL MODELO A ESCALA:



"Los recuerdos asociados con la naturaleza se despiertan a través de la **experiencia personal**, y esto solo puede reflejarse en el dibujo a mano alzada y la creación de **modelos**"

-Wang Shu 王澍



“La creación de modelos **restringe** activamente la pérdida de escala que generalmente resulta de la utilización **temprana** de la computadora”.

-Wang Shu 王澐



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