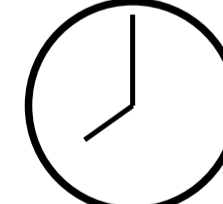


INTRODUCTION

Without enough financial support, the amount of education infrastructure and teaching staffs cannot satisfy the demand of student. These directly leads to a general low competitiveness of the labor market. Young people cannot find a decent job, the society is pushing them to the street which brings huge hidden troubles for the public security. Based on the social research, I determine to improve the education condition for this situation.

According to the urban research, in the northwest part of Juarez, closing to the border, large scale of self-build low income housing gather around. This district is also the area lacking community culture, public infrastructure and education resources within the whole Juarez. Especially in the area along the border is almost nothing. My site is chosen in this area, and I plan to apply the approach of adding education infrastructure to promote the education level of people in this community, by creating vocational school and community center

Daily routine of student commuters

- 
5-6 am
 Get up and prepare for school, catch a bus to DCL.
- 
7 am **DCL**
 Arrived at DCL, join the line and cross the border.
- 
8 am
 Catch another bus to class, or walk to school nearby.

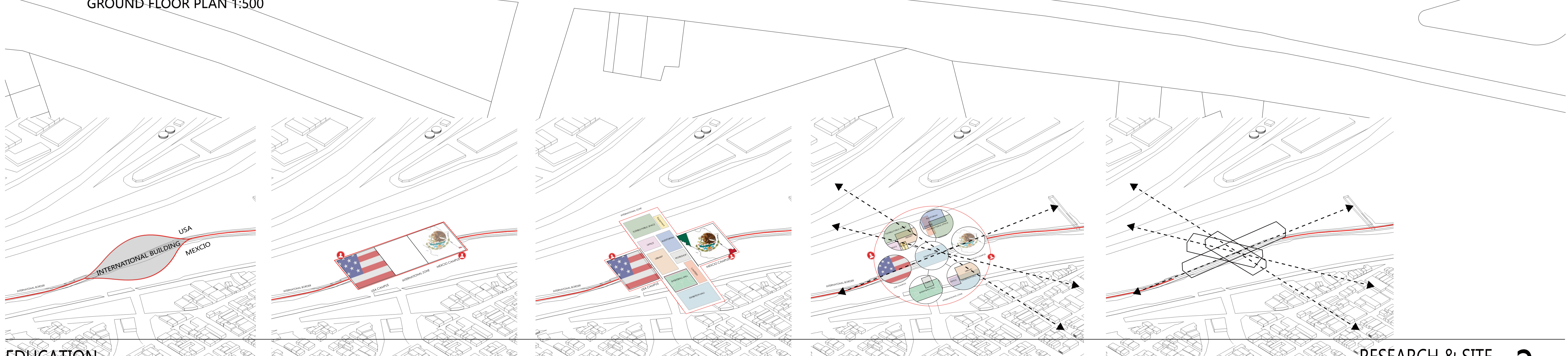
my research was focus on the education situation in Mexico. Large data shows that the education infrastructure in Mexico fall much behind that in America. Without enough financial support, the amount of education infrastructure and teaching staffs cannot satisfy the demand of student. These directly leads to a

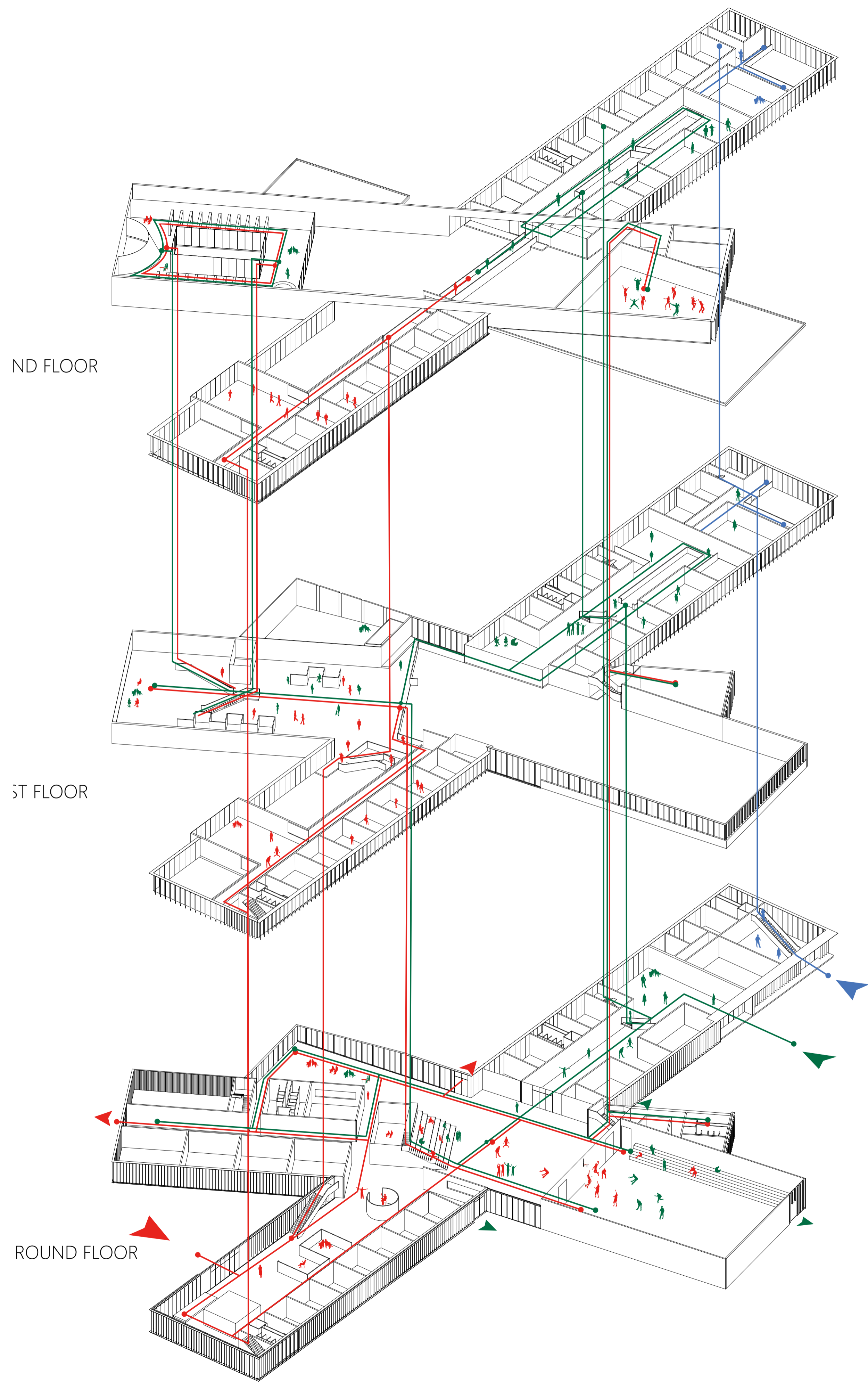




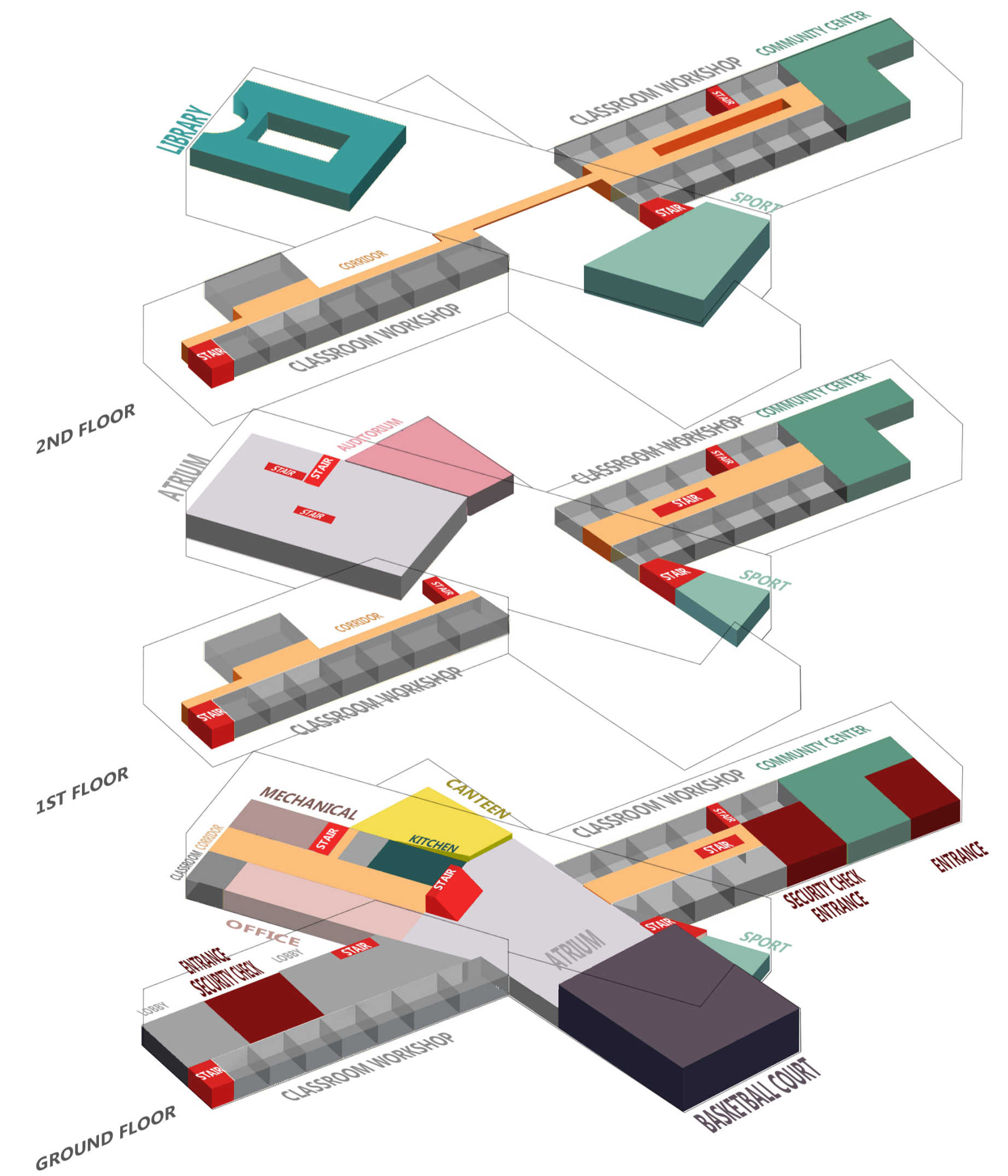
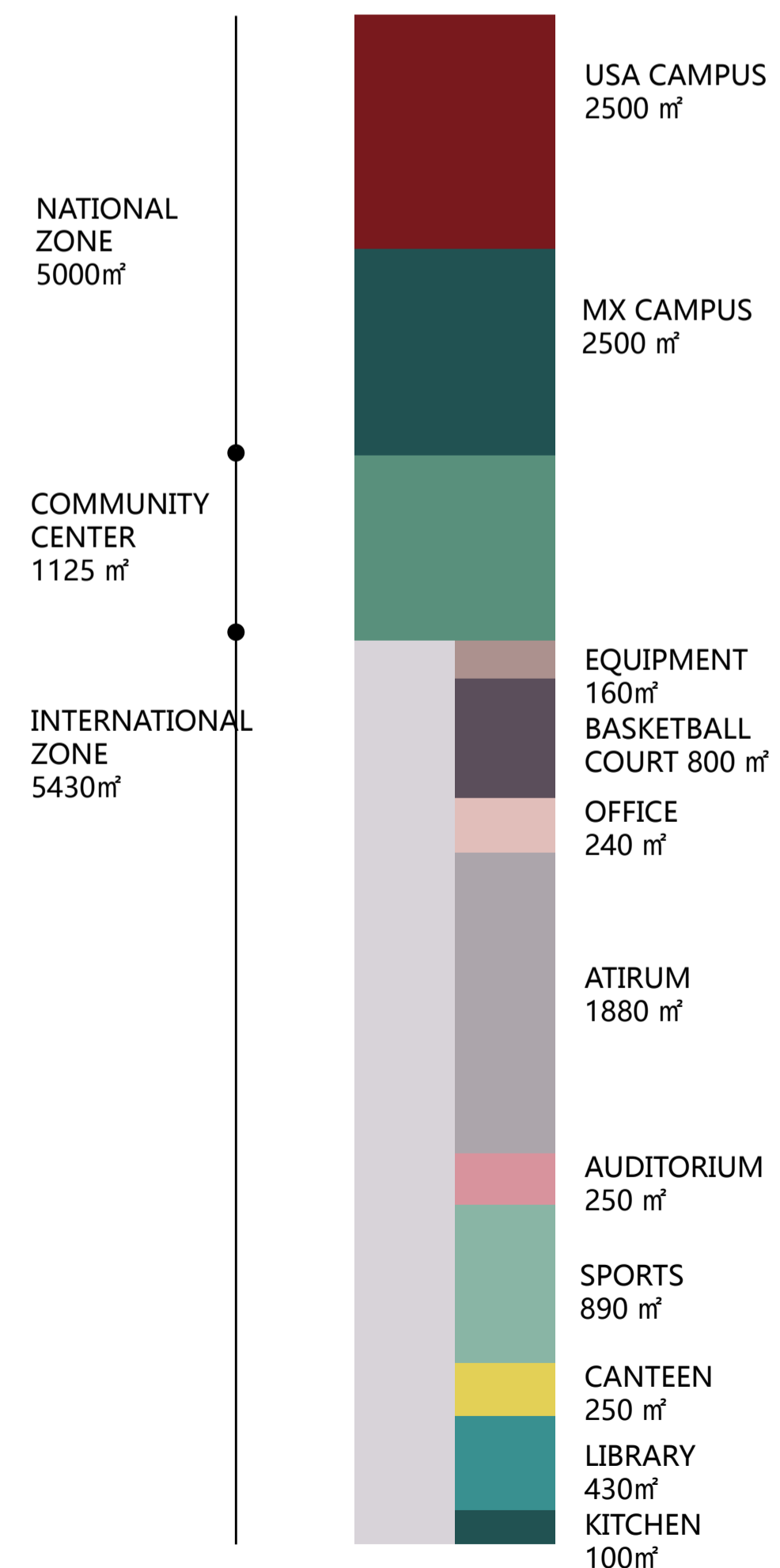
- | | |
|-------------------------|-------------------|
| 1. CLASSROOM/WORKSHOP | 9. EQUIPMENT ROOM |
| 2. INTERNATIONAL ATRIUM | 10. MEETING ROOM |
| 3. BASKETBALL COURT | 11. ENTRANCE HALL |
| 4. DRESSING ROOM | 12. CORRIDOR |
| 5. CANTEEN | 13. HEALTH CARE |
| 6. OFFICE | 14. GYM |
| 7. COMMON CLASSROOM | 15. PARKING |
| 8. KITCHEN | |

GROUND-FLOOR PLAN 1:500

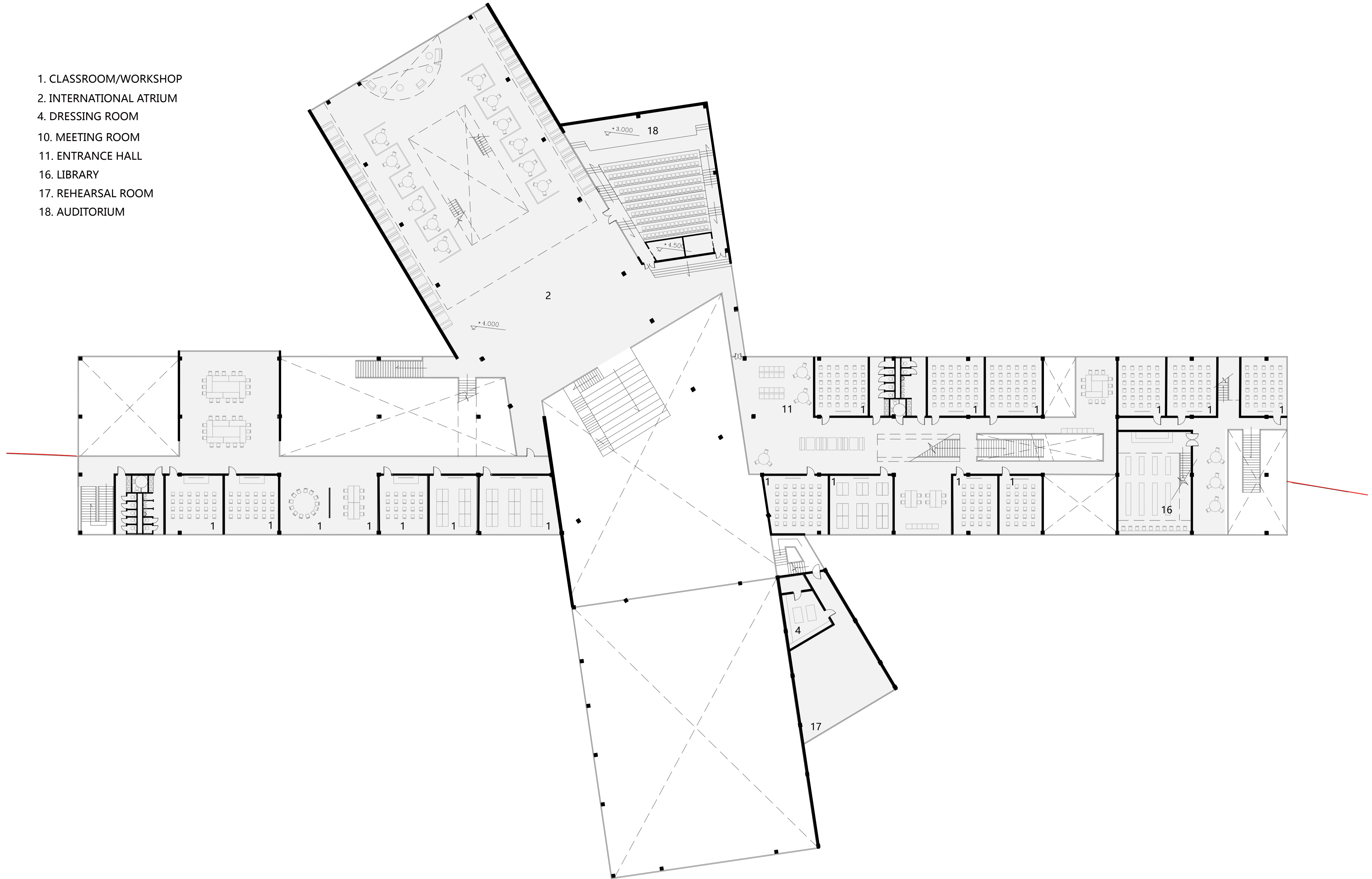




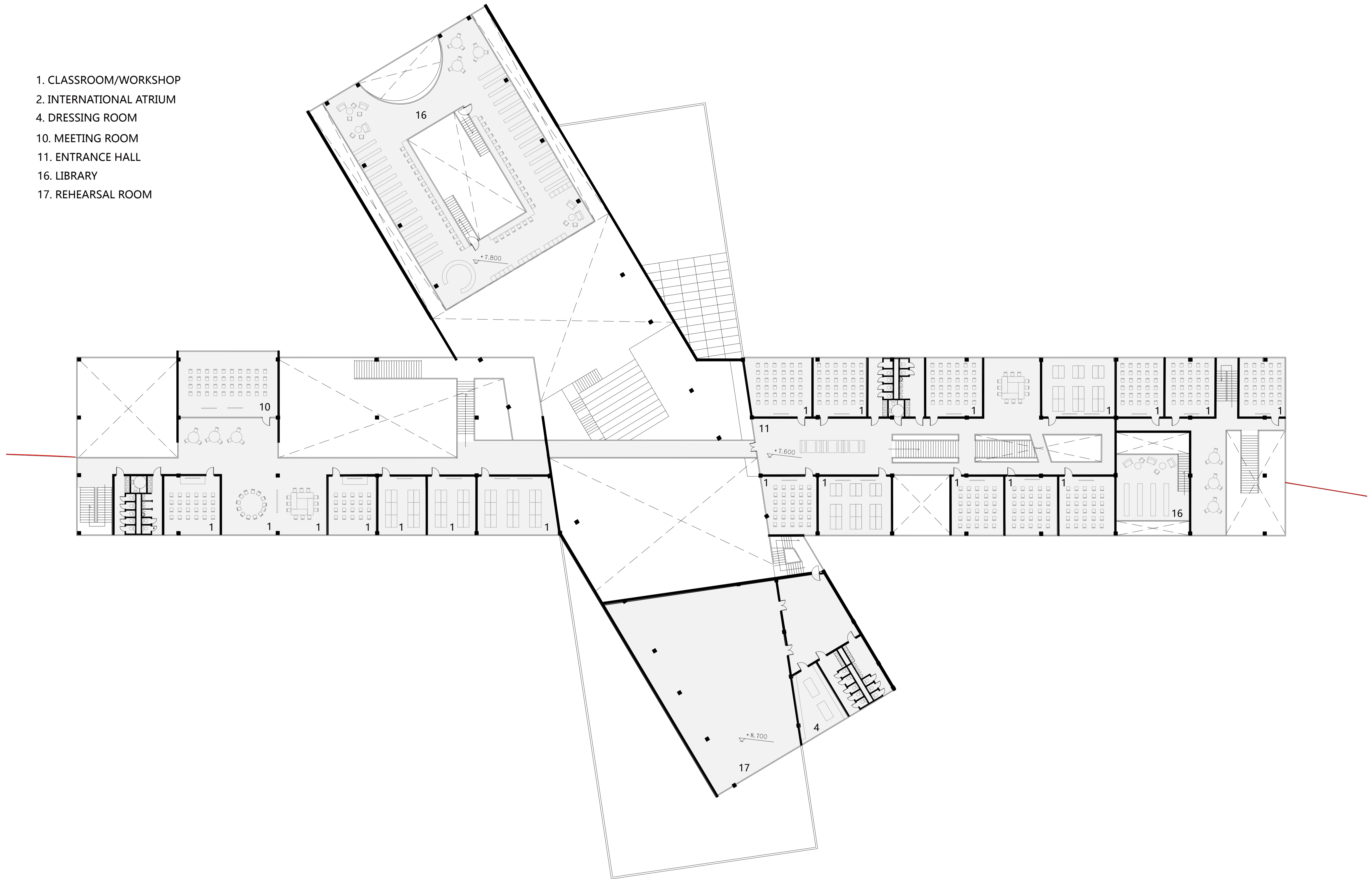
PROGRAM 11555m²



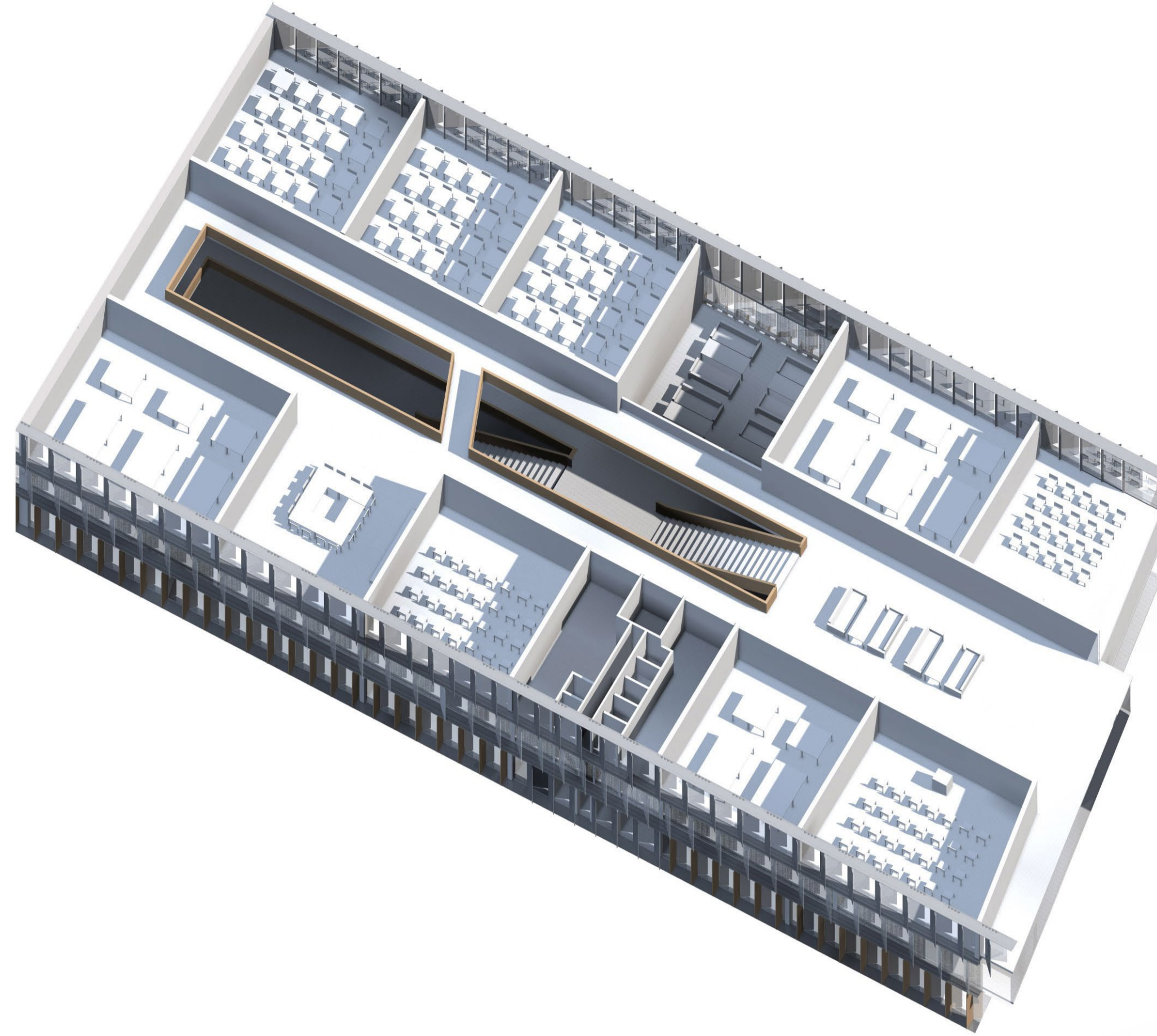
- 1. CLASSROOM/WORKSHOP
- 2. INTERNATIONAL ATRIUM
- 4. DRESSING ROOM
- 10. MEETING ROOM
- 11. ENTRANCE HALL
- 16. LIBRARY
- 17. REHEARSAL ROOM
- 18. AUDITORIUM



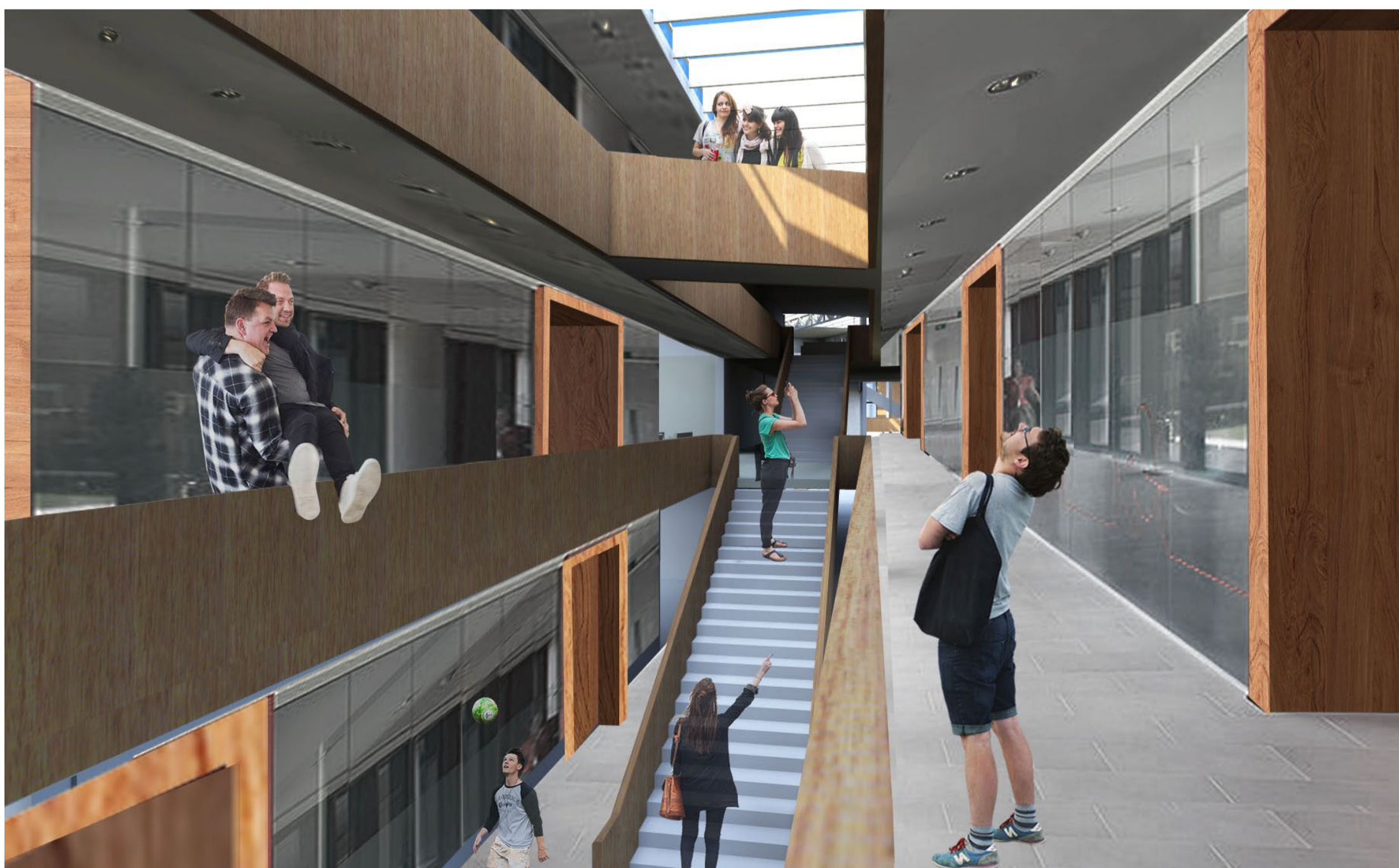
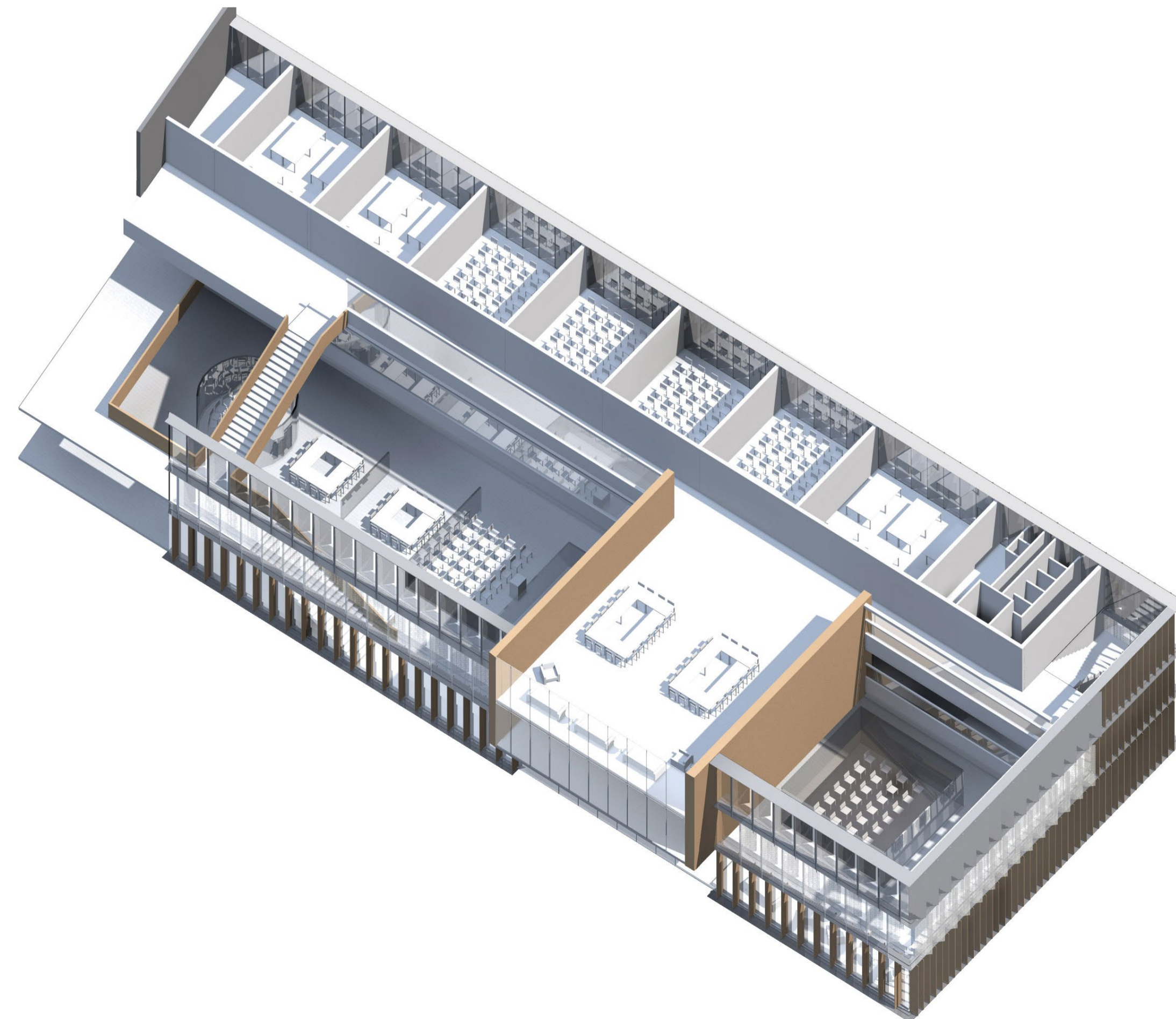
- 1. CLASSROOM/WORKSHOP
- 2. INTERNATIONAL ATRIUM
- 4. DRESSING ROOM
- 10. MEETING ROOM
- 11. ENTRANCE HALL
- 16. LIBRARY
- 17. REHEARSAL ROOM



USA CAMPUS ZONE

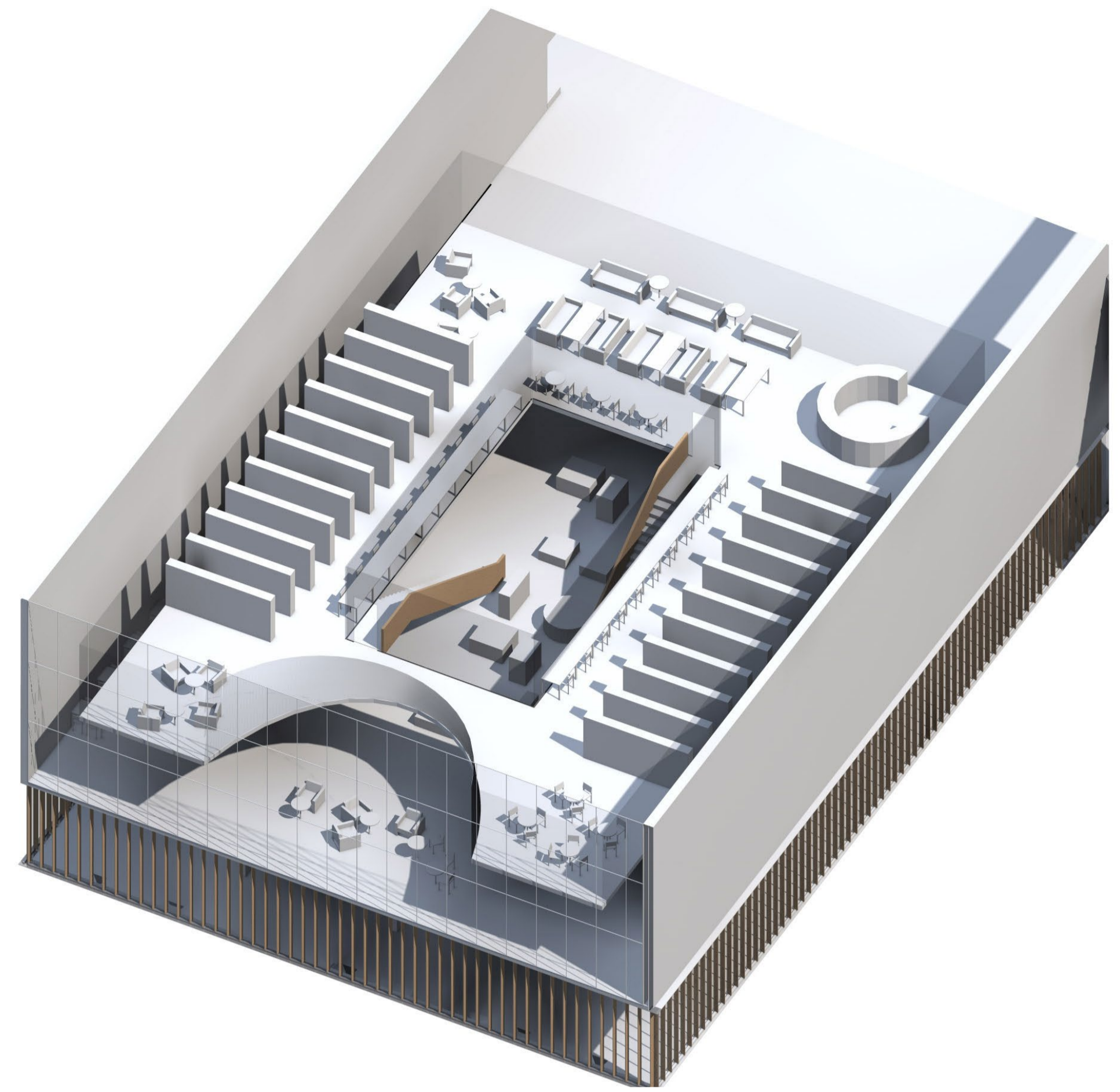


MEXICO CAMPUS ZONE



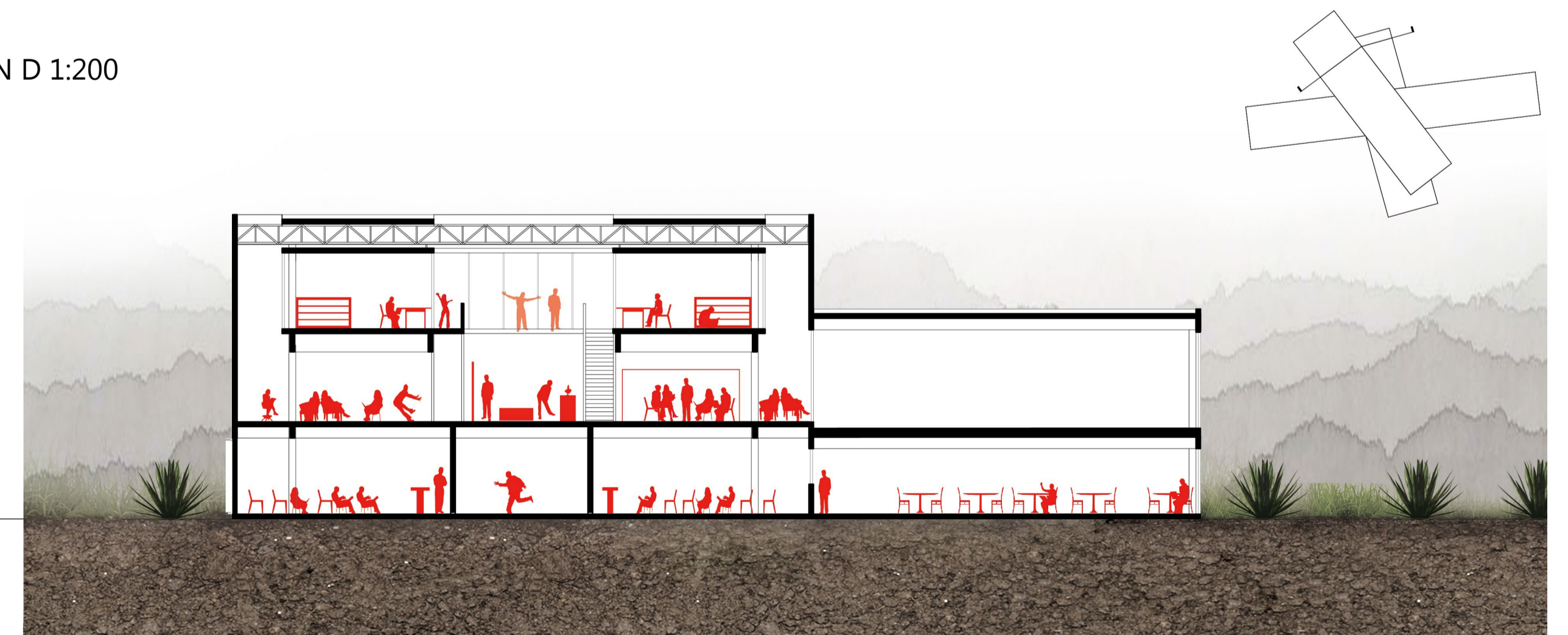


USA CAMPUS ZONE

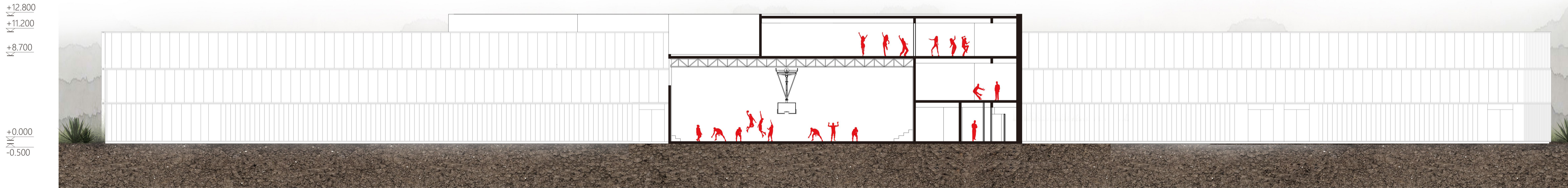


SECTION D 1:200

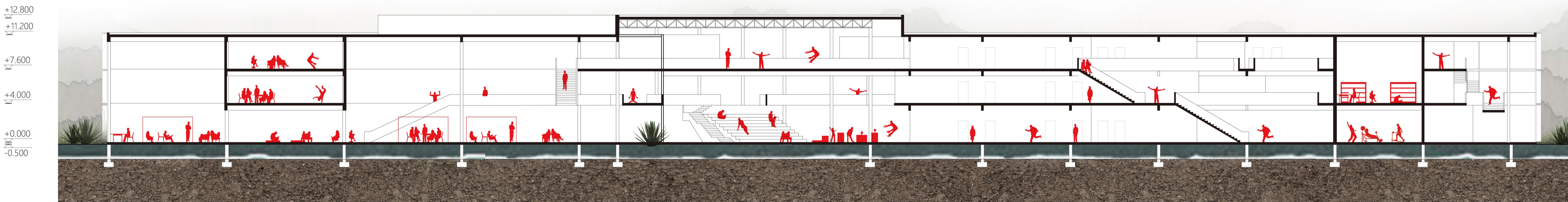
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 +4.000
 +0.000
 -0.500



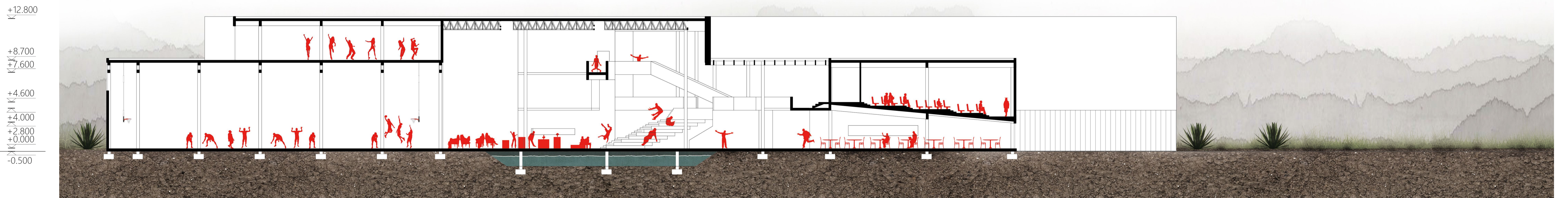
SECTION A 1:200

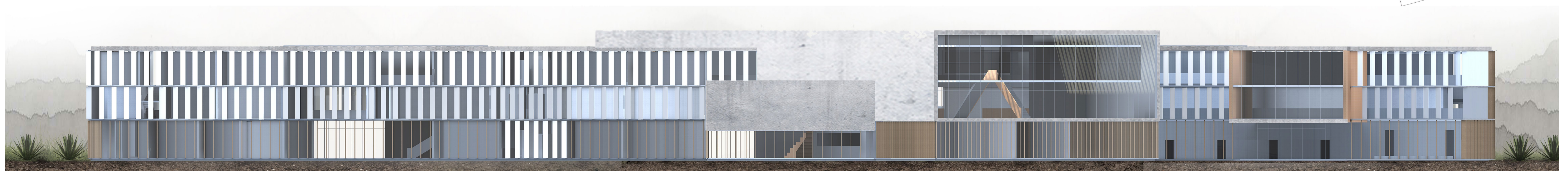
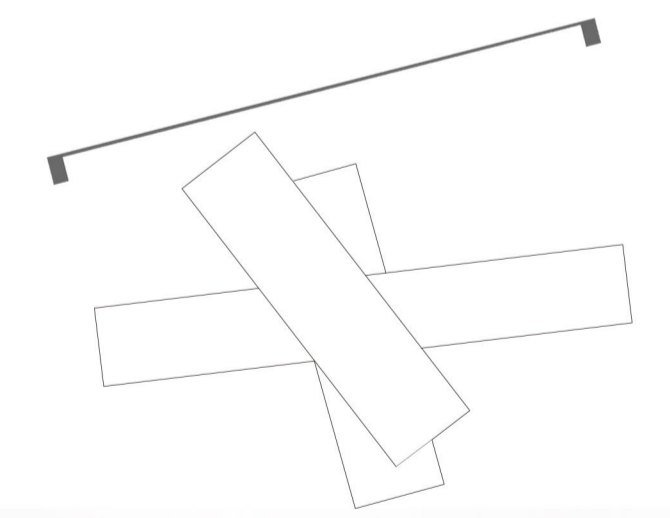


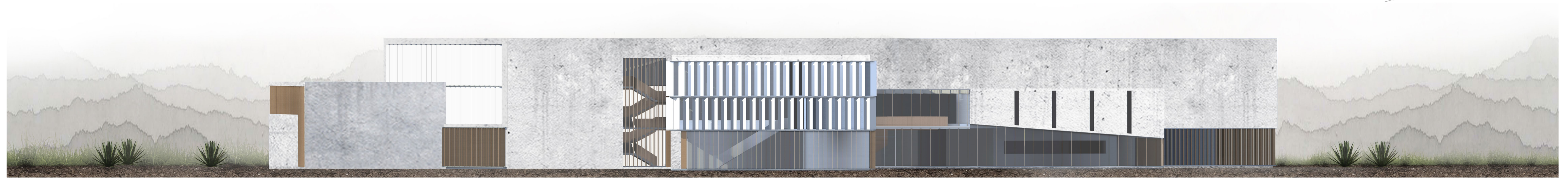
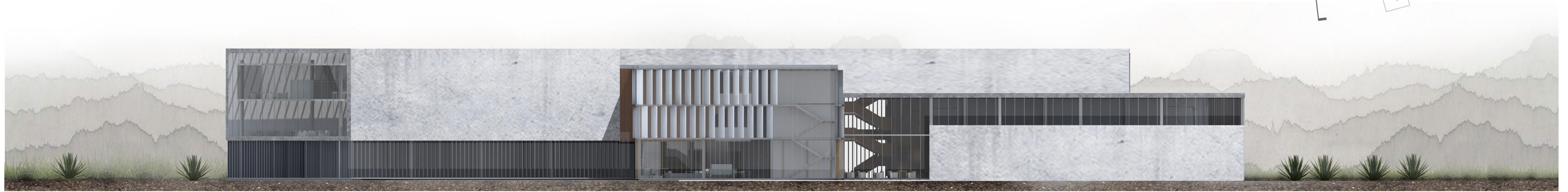
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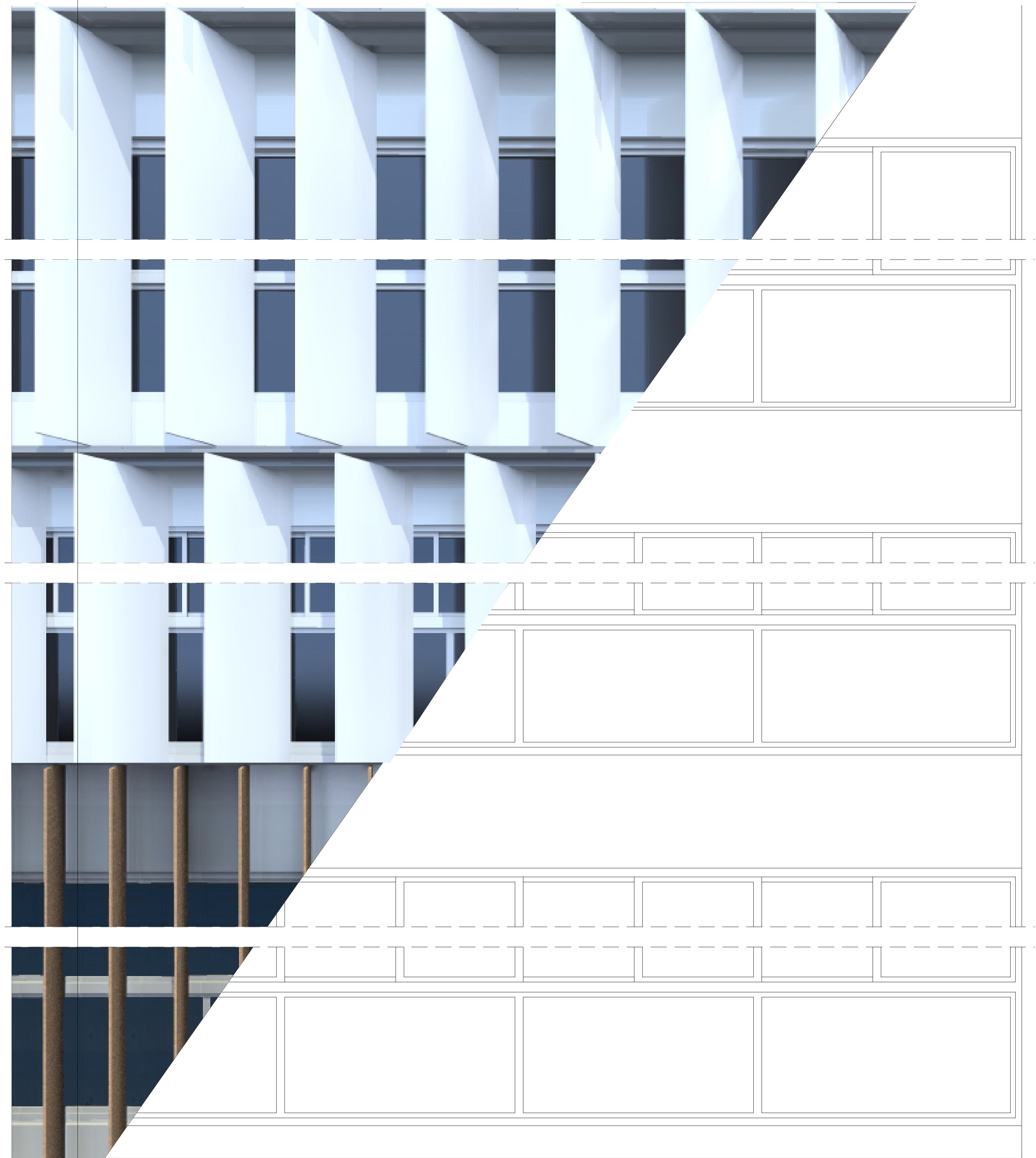
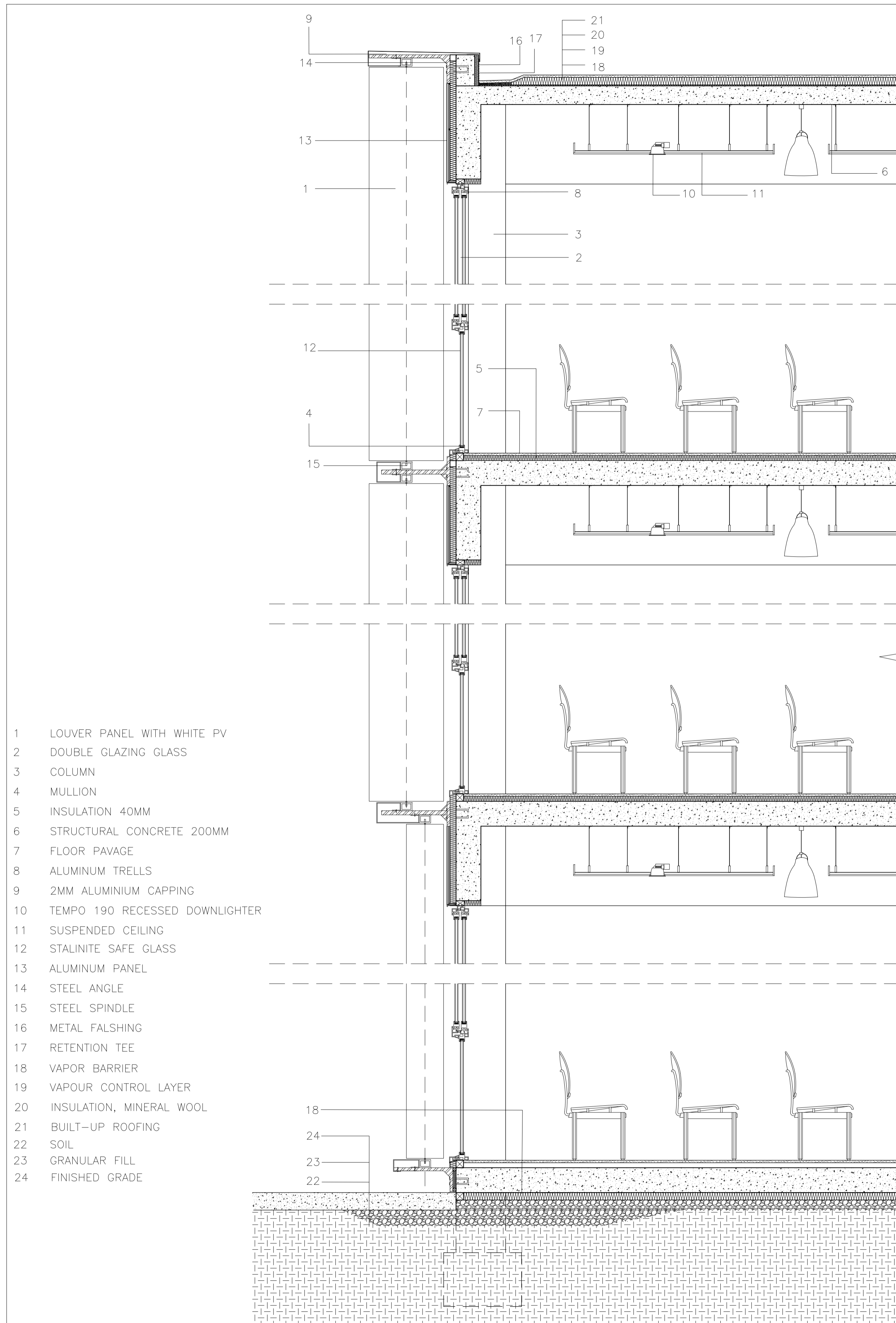


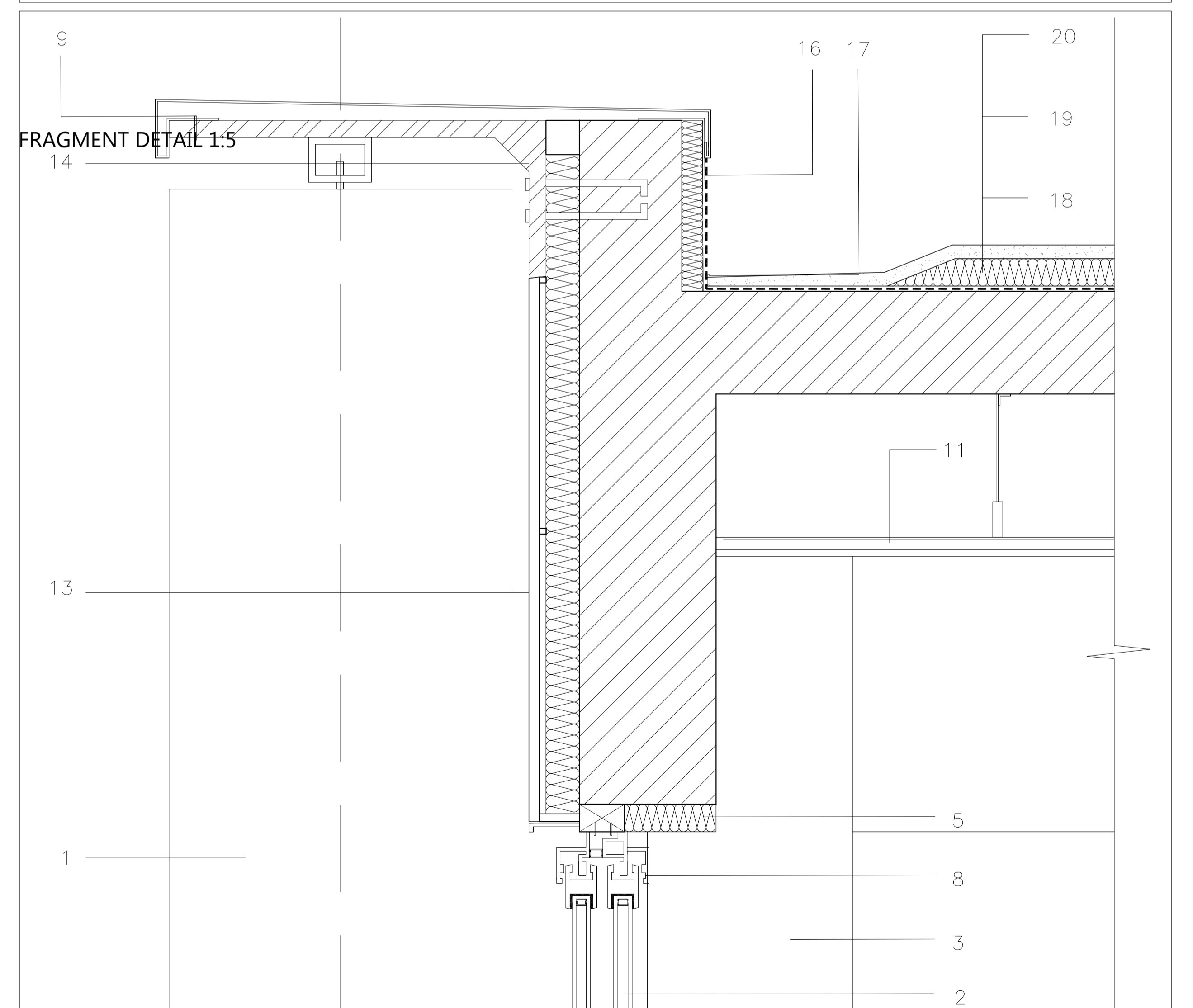
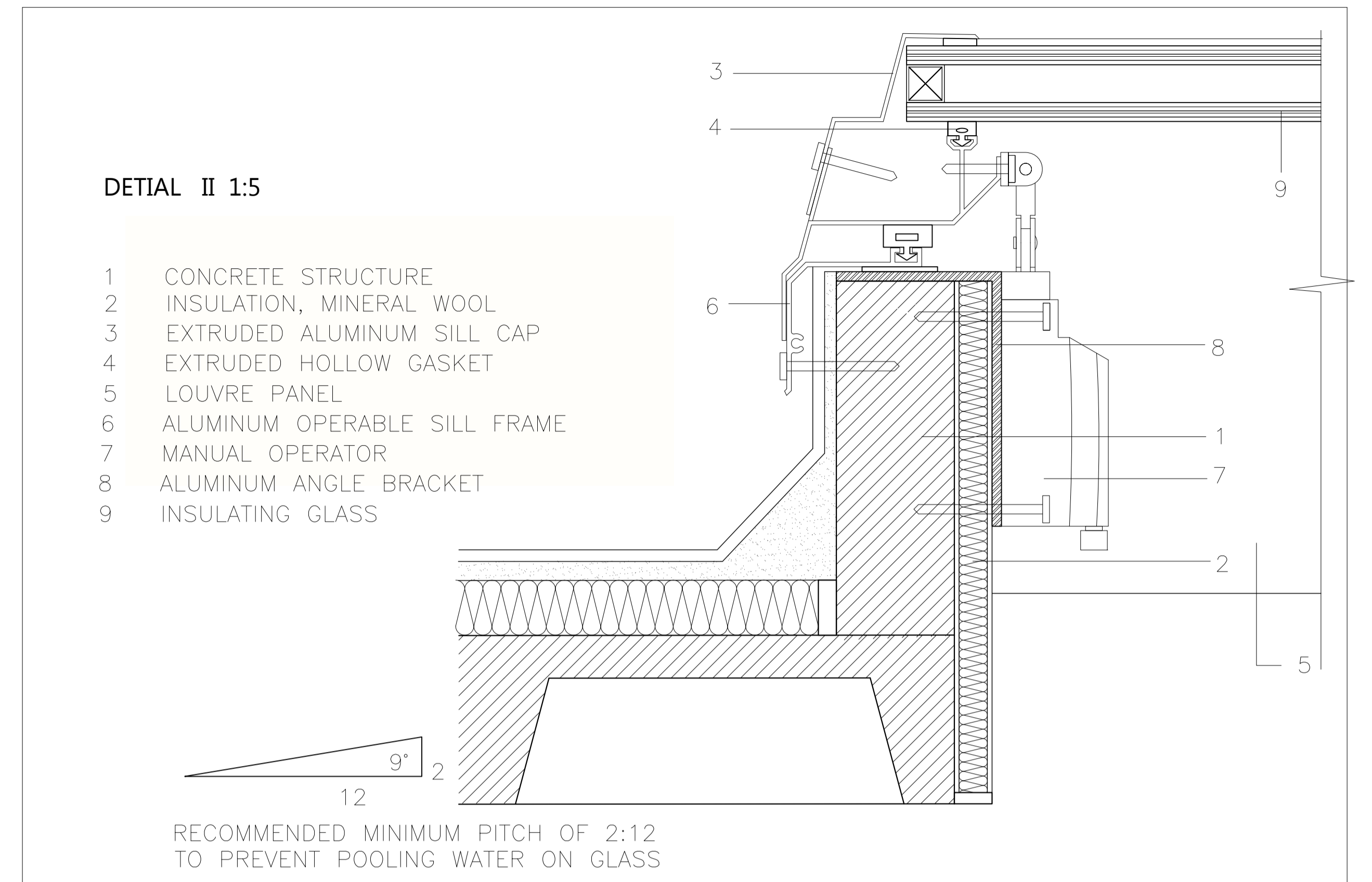
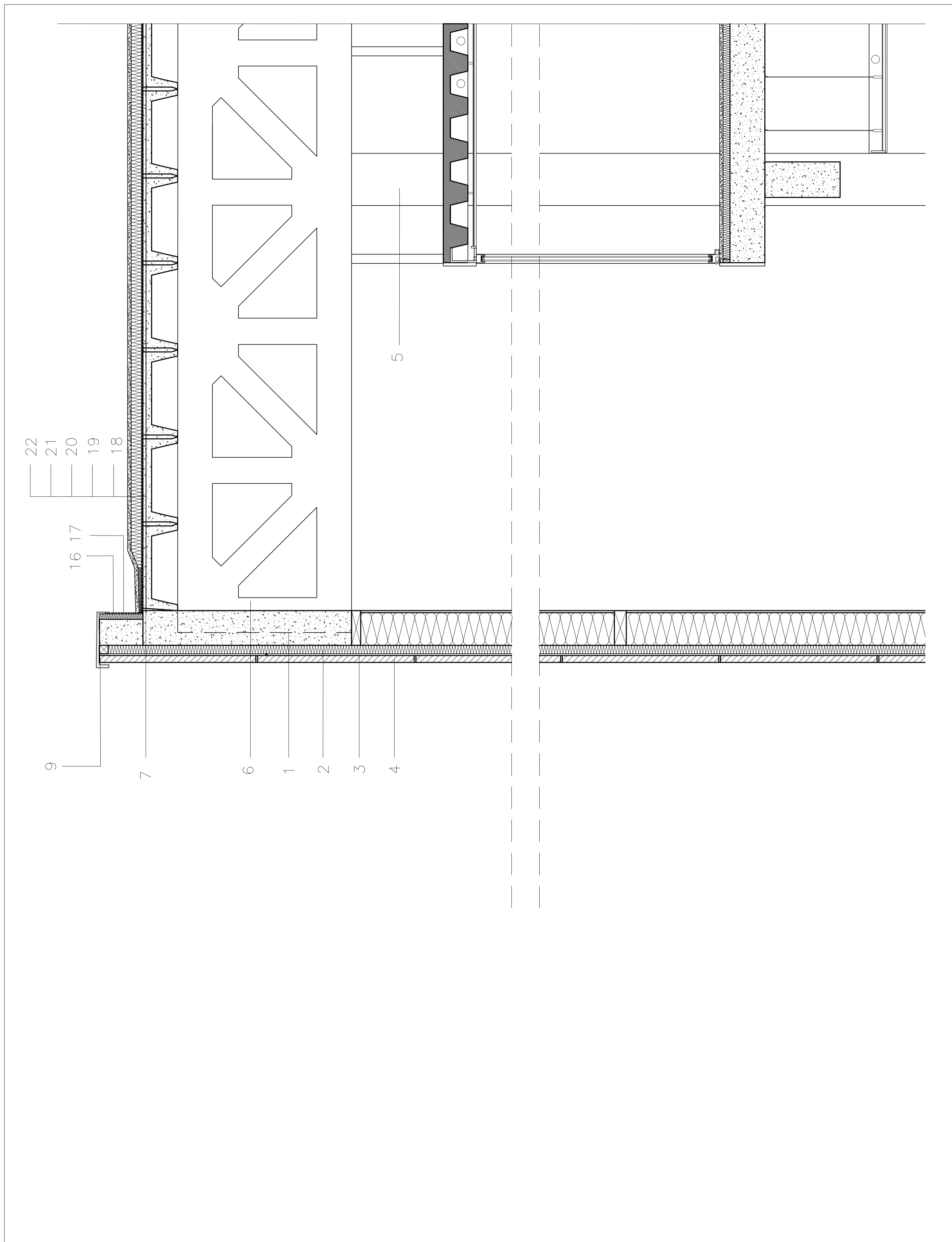
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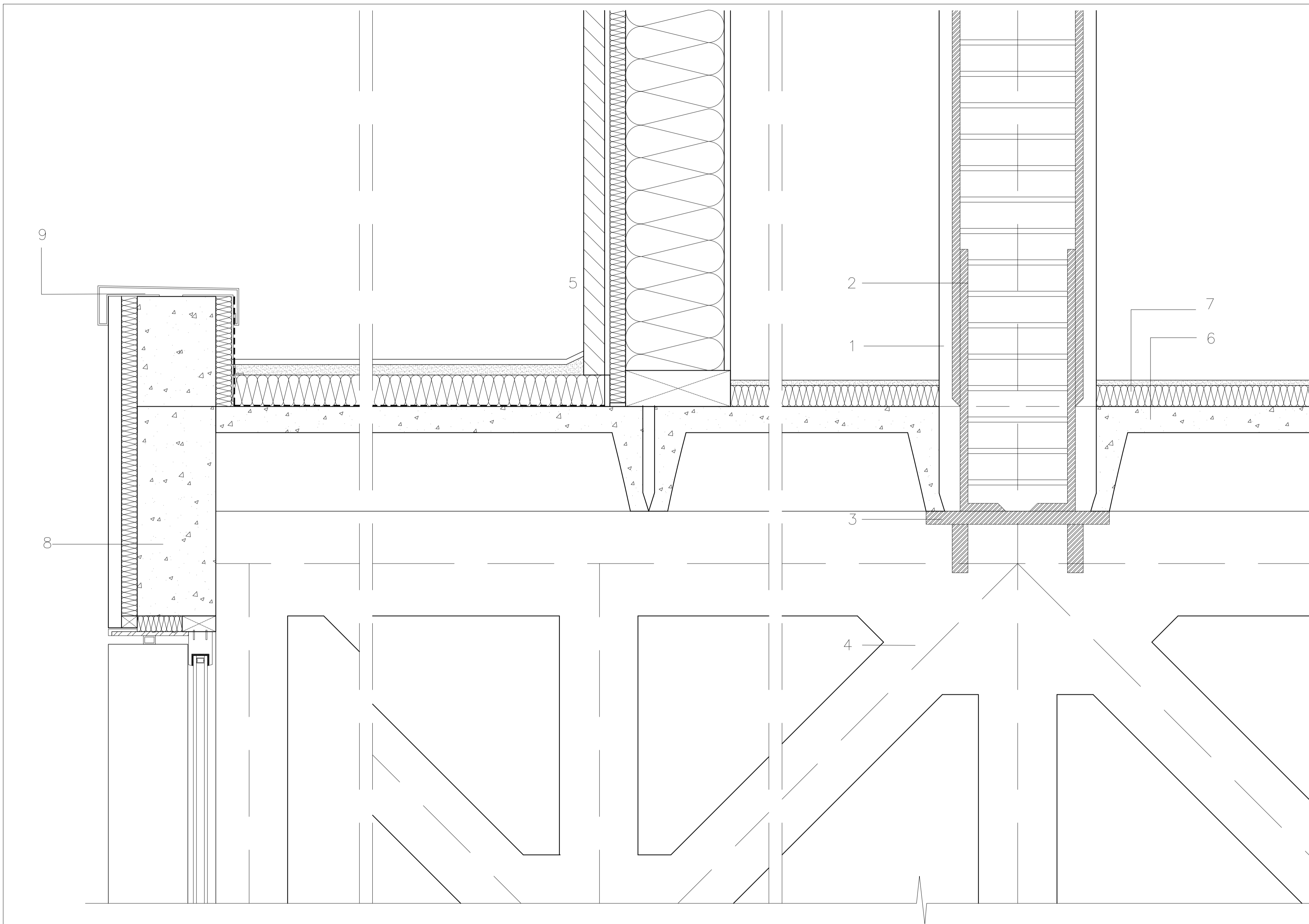




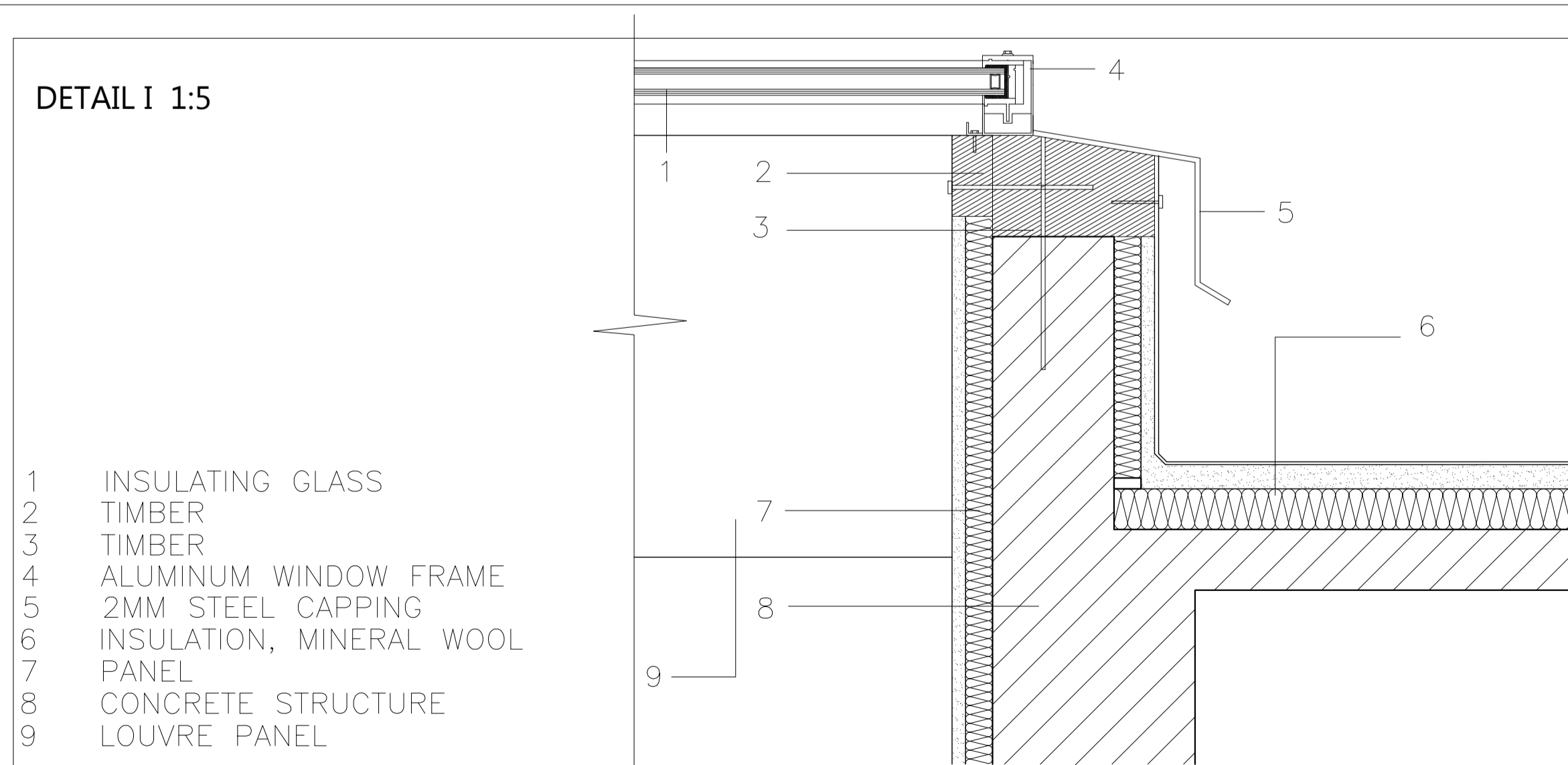




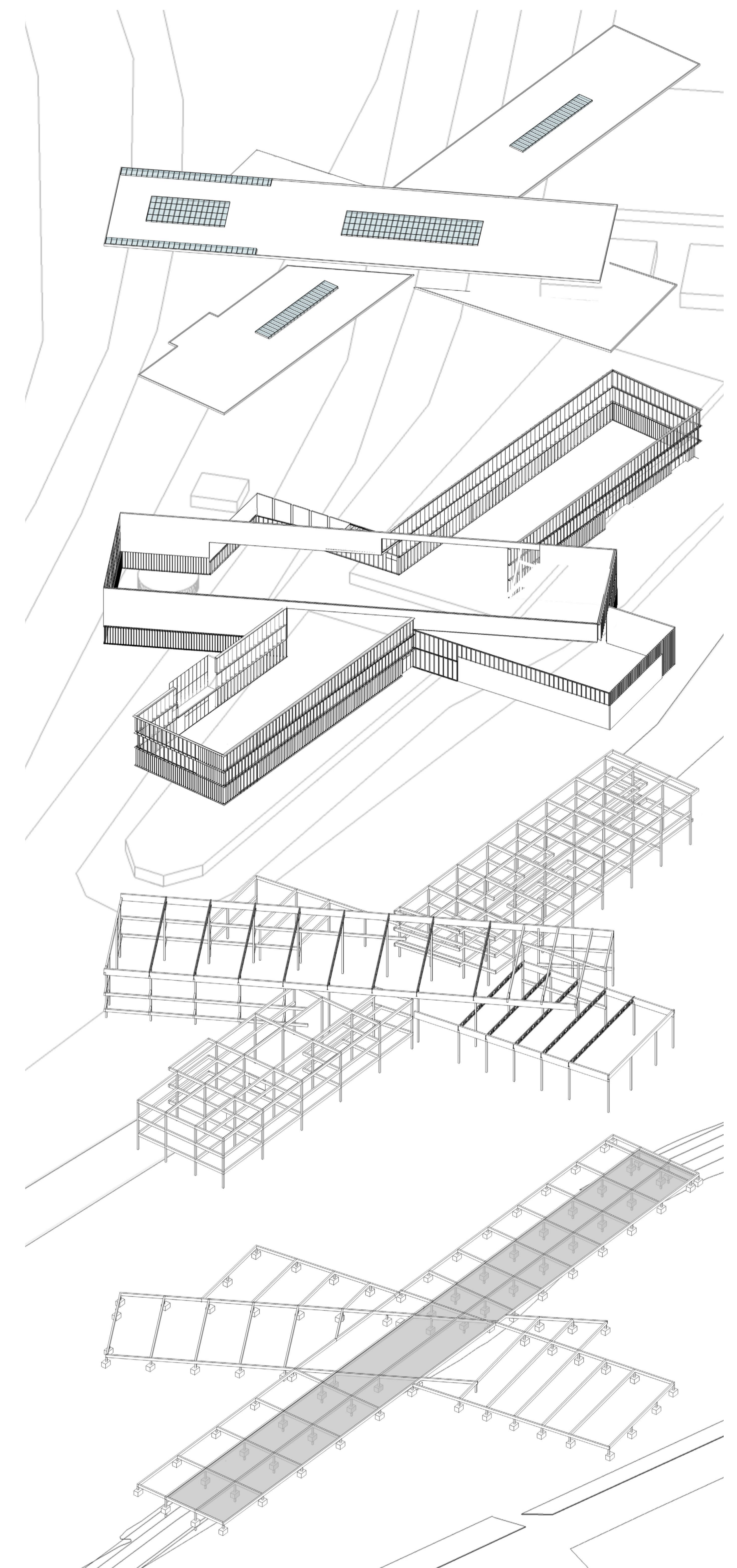
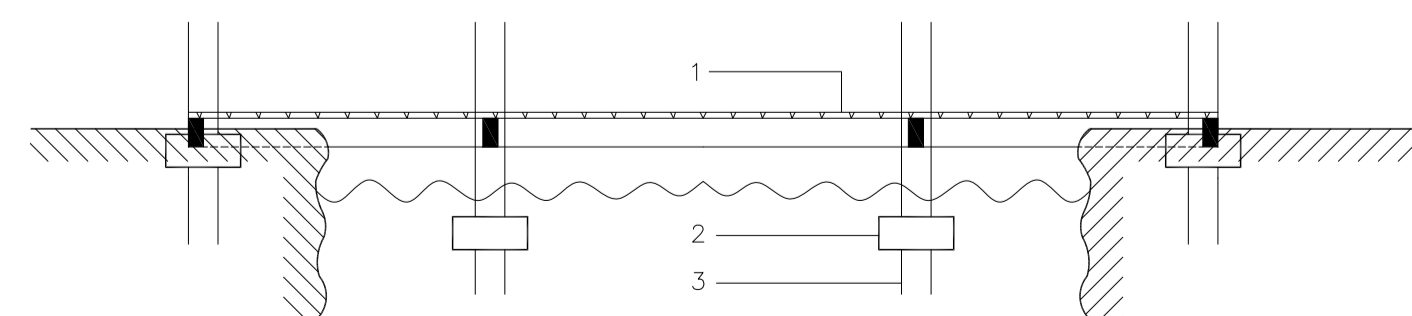











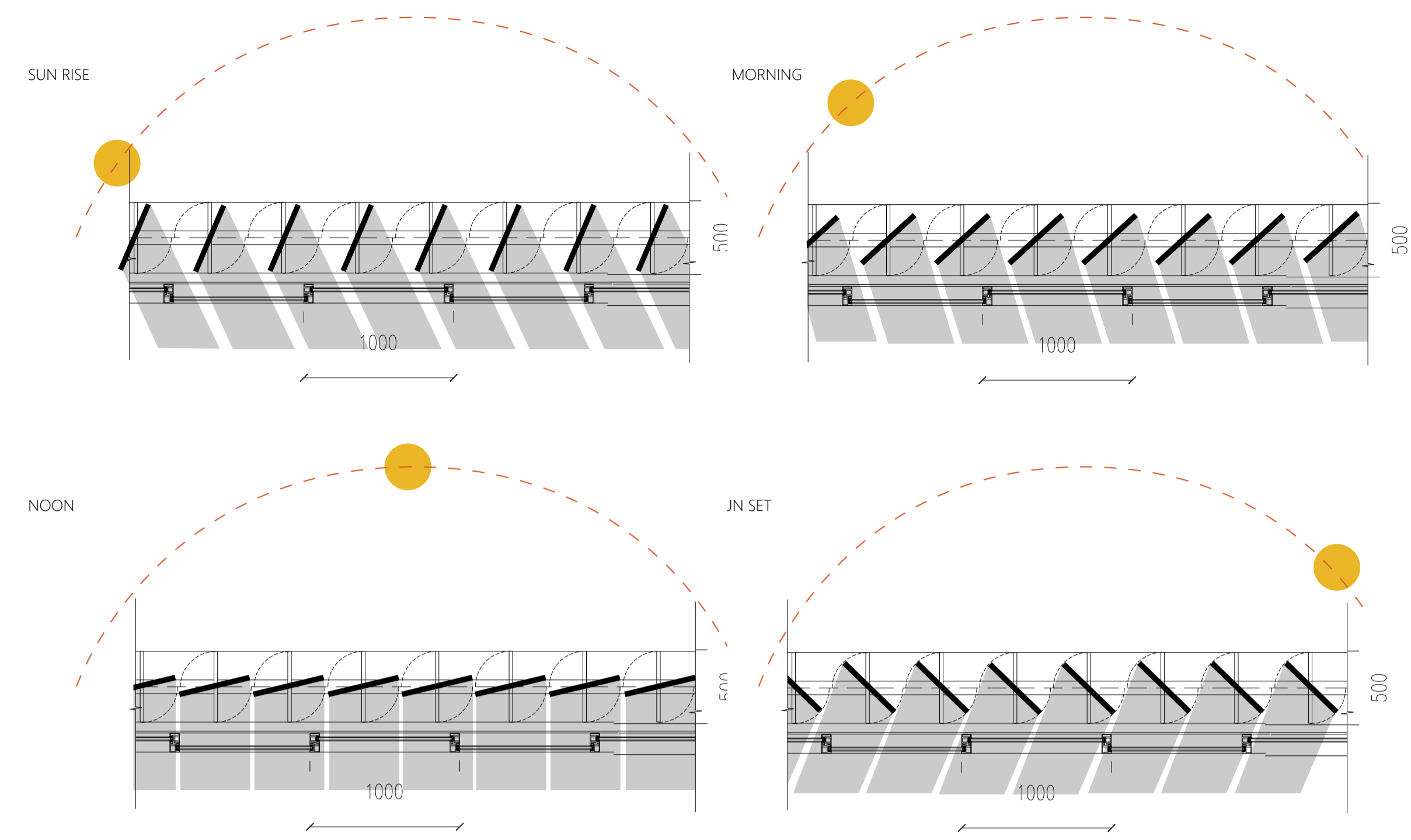
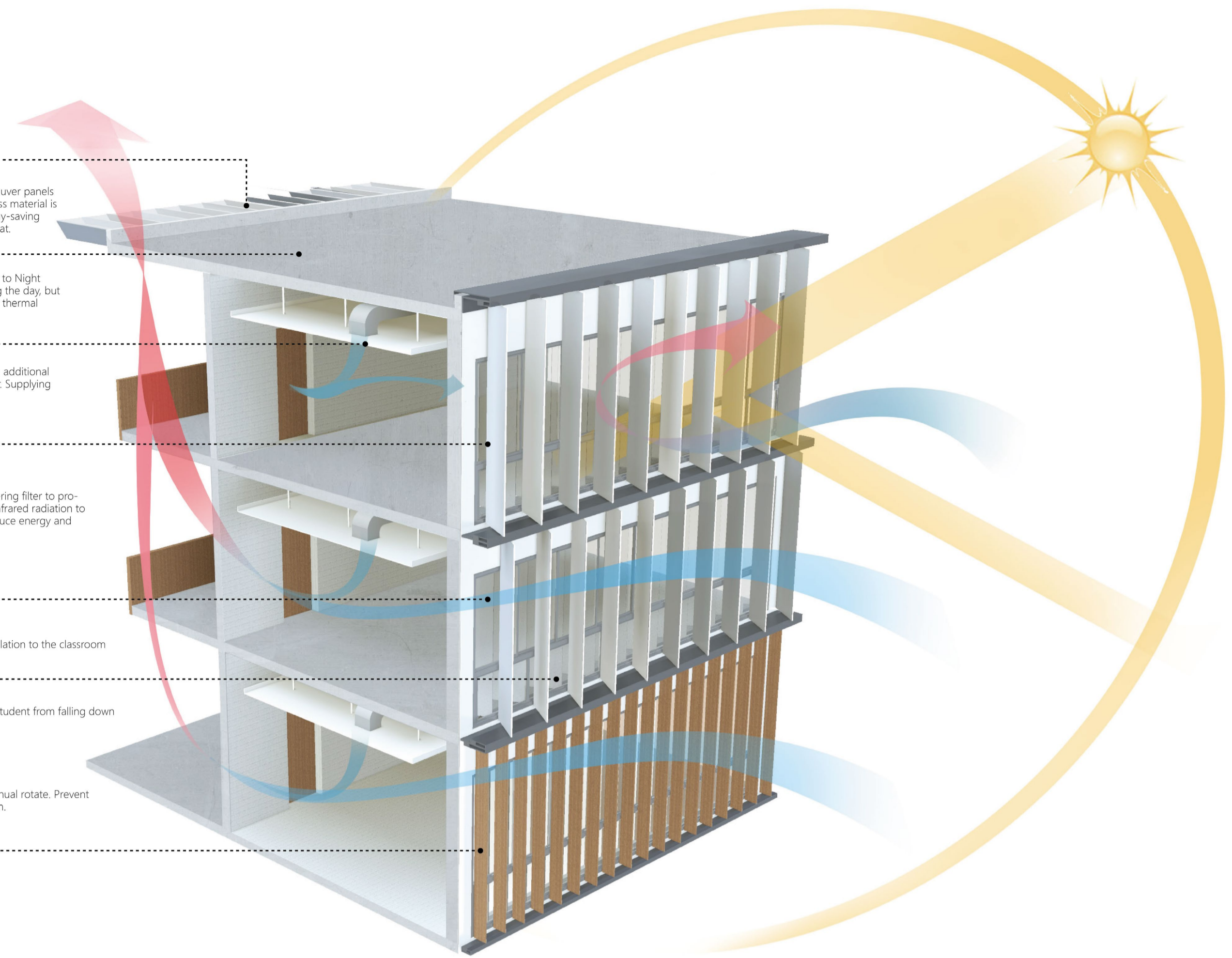
DETAIL I 1:5



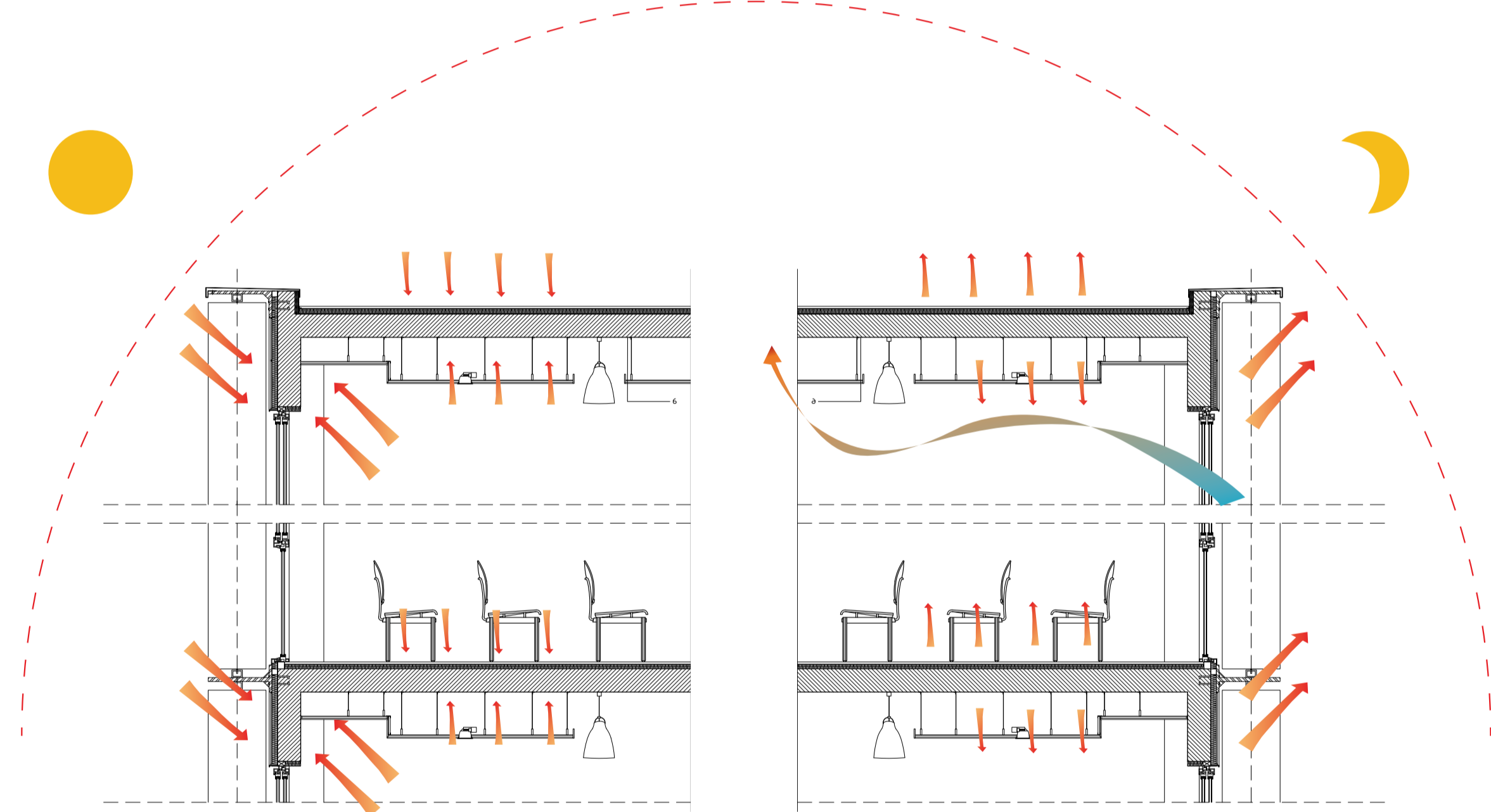
- 1 CAST CONCRETE COLOUMN
- 2 REINFORCING STEEL BAR
- 3 PRE-BURIED STEEL PLATE
- 4 PREFABRICATE CONCRETE TRUSS
- 5 CONCRETE STRUCTURE
- 6 PREFABRICATE CONCRETE STRUCTURE
- 7 INSULATION
- 8 FIXED LOUVRE PANEL
- 9 2MM ALUMINIUM CAPPING



-  Openable skylight with horizontal louver panels help with natural ventilation. The glass material is ceramic fritted glass which has energy-saving function of reflecting part of solar heat.
-  Concrete structure supply possibility to Night ventilation, which absorb heat during the day, but release heat during the night to cool thermal mass for the next day
-  Mechanical ventilation, which can do additional help to natural ventilation in summer. Supplying cool air into rooms
-  White PV Louver panel, uses a scattering filter to produce white light while allowing the infrared radiation to pass through to the solar cells. Produce energy and reduce sunlight at the same time.
-  Sliding windows, supply natural ventilation to the classroom
-  Safety Glass, 1 meter high, prevent student from falling down
-  Wood Louver panel, 300*4000, manual rotate. Prevent strong sunlight coming into the room.

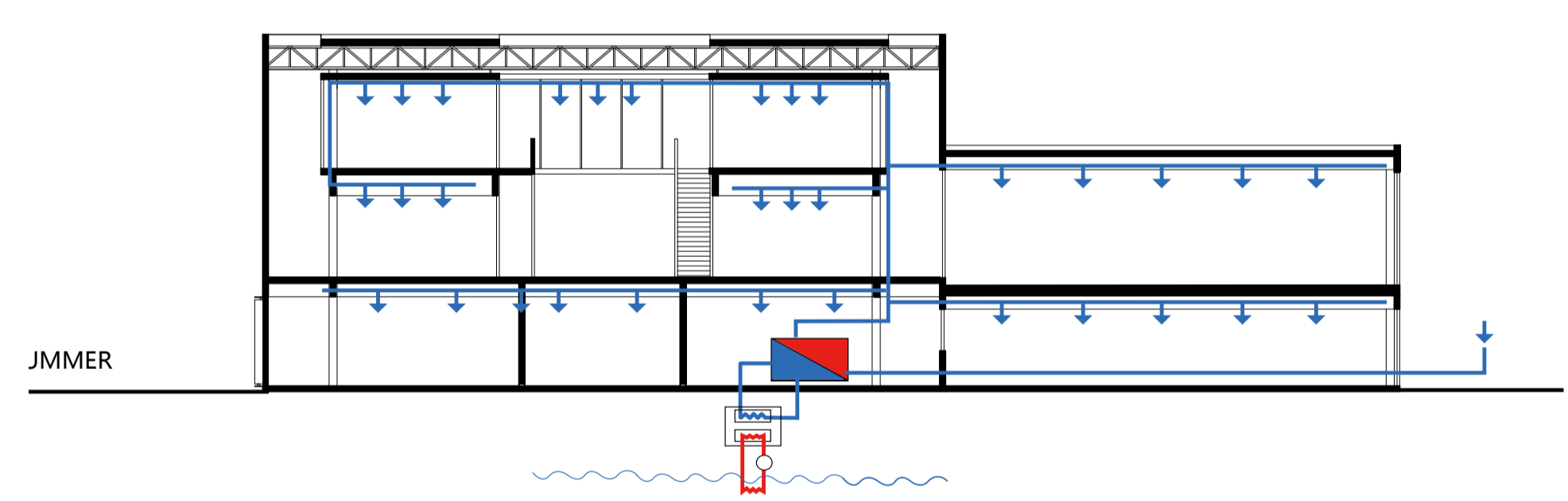


OVER ALL STRATEGY: NIGHT VENTILATION STRATEGY

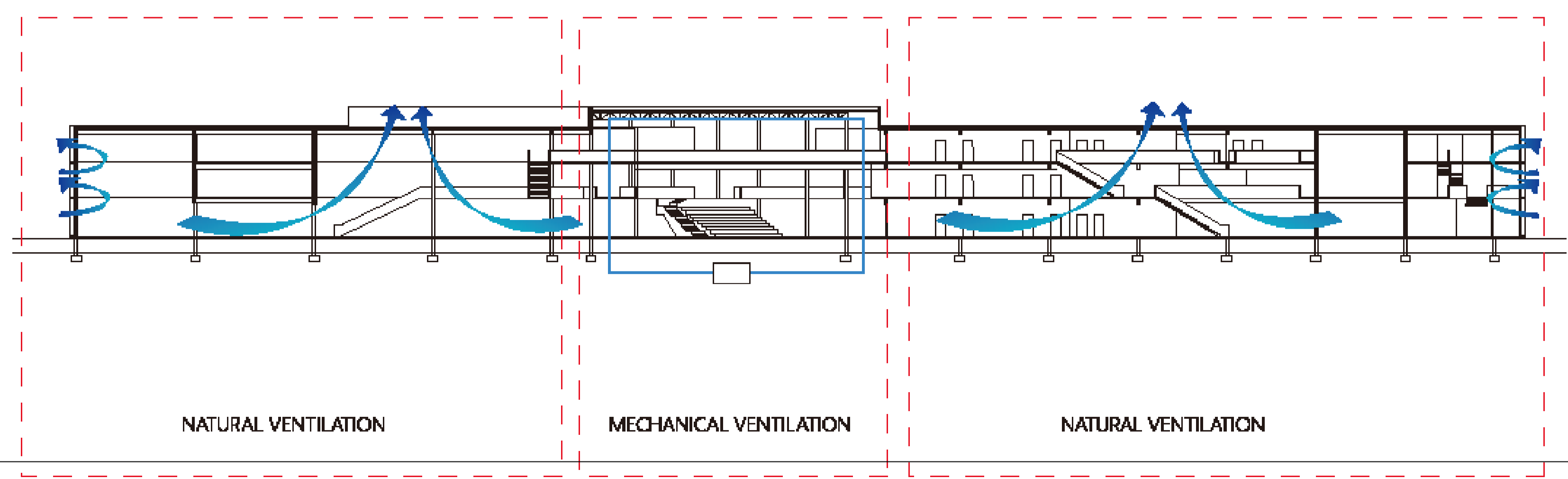
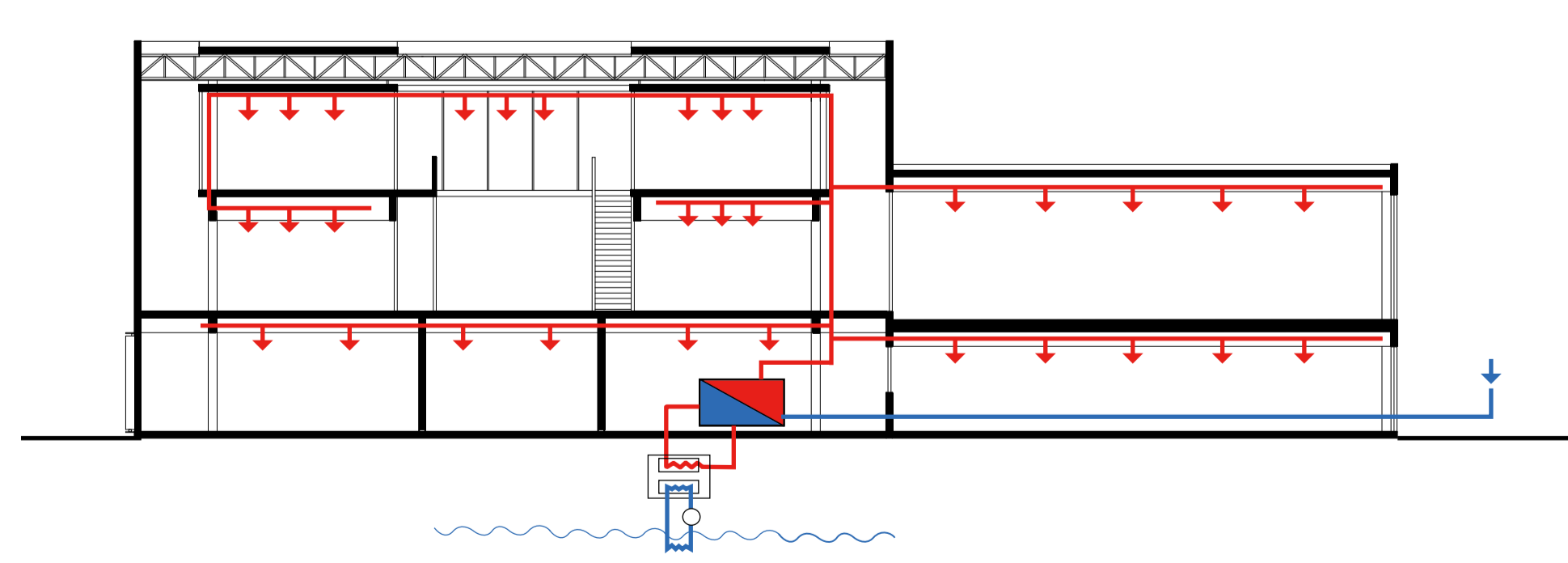


CONCRETE ABSORBS HEAT DURING THE DAY

CONCRETE RELEASE HEAT AT NIGHT



JMMER



NATURAL VENTILATION

MECHANICAL VENTILATION

NATURAL VENTILATION