THE

THINKING ASSEMBLY

DESIGN PROJECT IN ARCHITECTURAL STUDY



PDAS Year 2 Kong Wai Lun 10587806



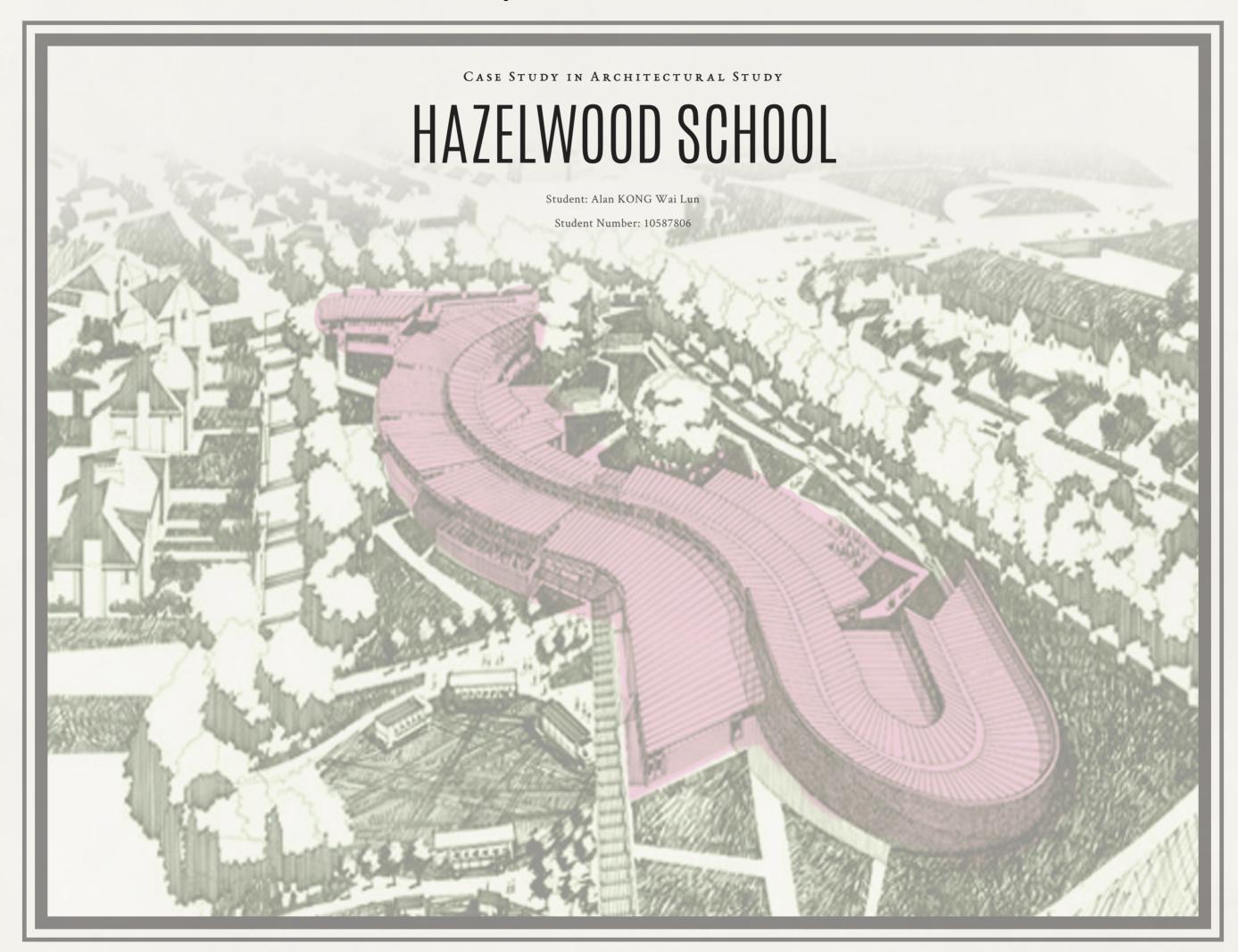
student in 10-12-year-old, they actually don't need a space for learning, they are able to learn themselves by internet technology. this doesn't mean they don't need to learn from the teacher, but they need someone answering their question. In a typical school, all knowledge had preserved for the student, whatever their interest, hobby, talent, they have the same schedules for their learning, the same timetable for a different kind of genius students.

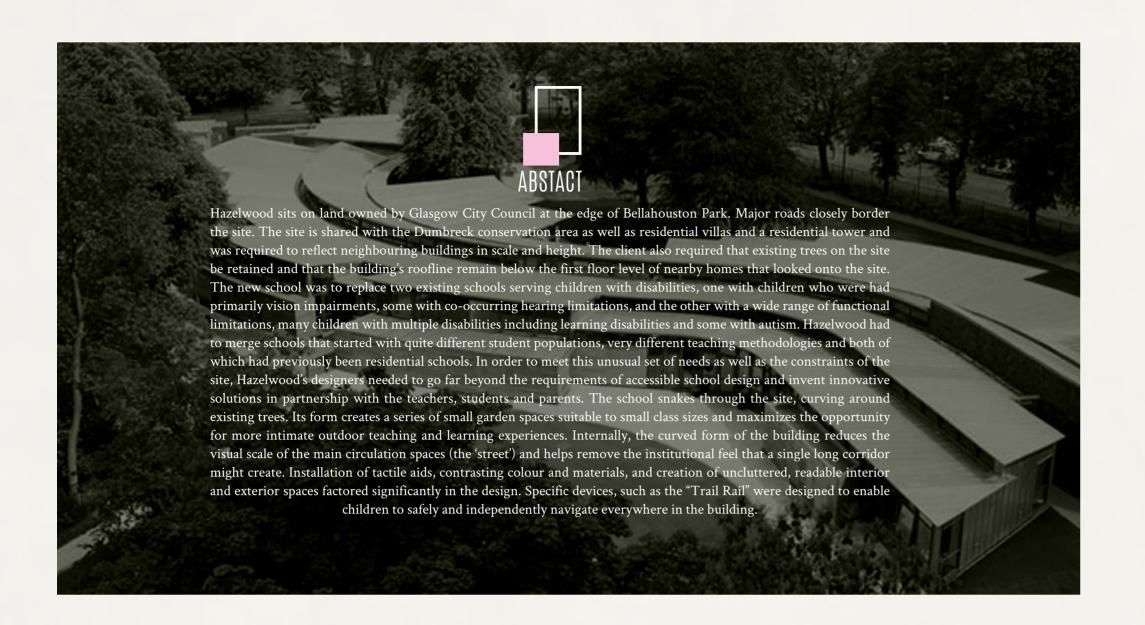
How can the genius pianist show talent with no piano? However, students in hong kong, they need to make their decision for their future, they have to pick their destiny by electing the subject they don't ever understand. In fact, they don't even have their choice, which belongs to their parents with also no idea, and a piece of sheet with some unfair code.

Thinker assessbly is student leading learning center, there is no teacher or time table, but there are exhibitions and specialist ready for students to ask and learn. Every single day, students are able to find their interesting subject to explore, they don't need to waste their time to wait for other students, they don't need time for learning something they already understand, they have a whole day to enjoy to the ocean of knowledge, and pass all the challenges at the end of the day, when they feel puzzled, the specialists are ready for any question.

After each single school days, specialists are collected all the data of the student, who interested with which subject, who have a talent for the subject, which subject has most interest or not, which question has most asked. the specialists have their responsibility to invite students to enjoy their subject and make it interest. and prepare the next exhibition by the data for the next day.

Story begin from the research..



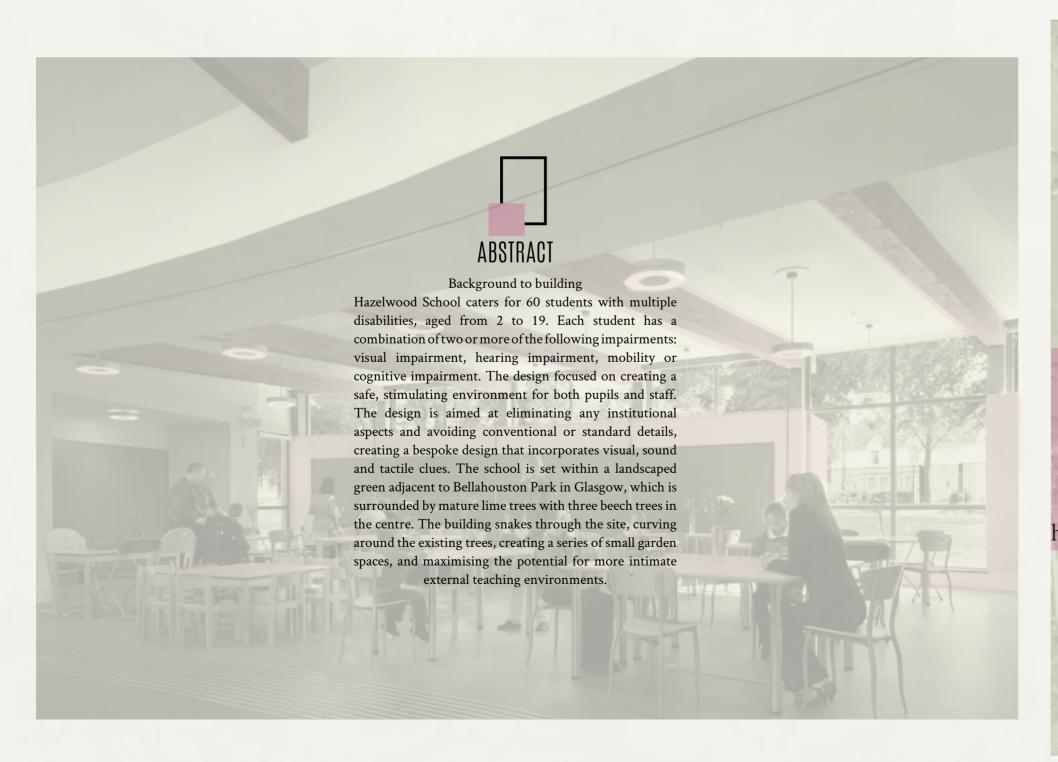


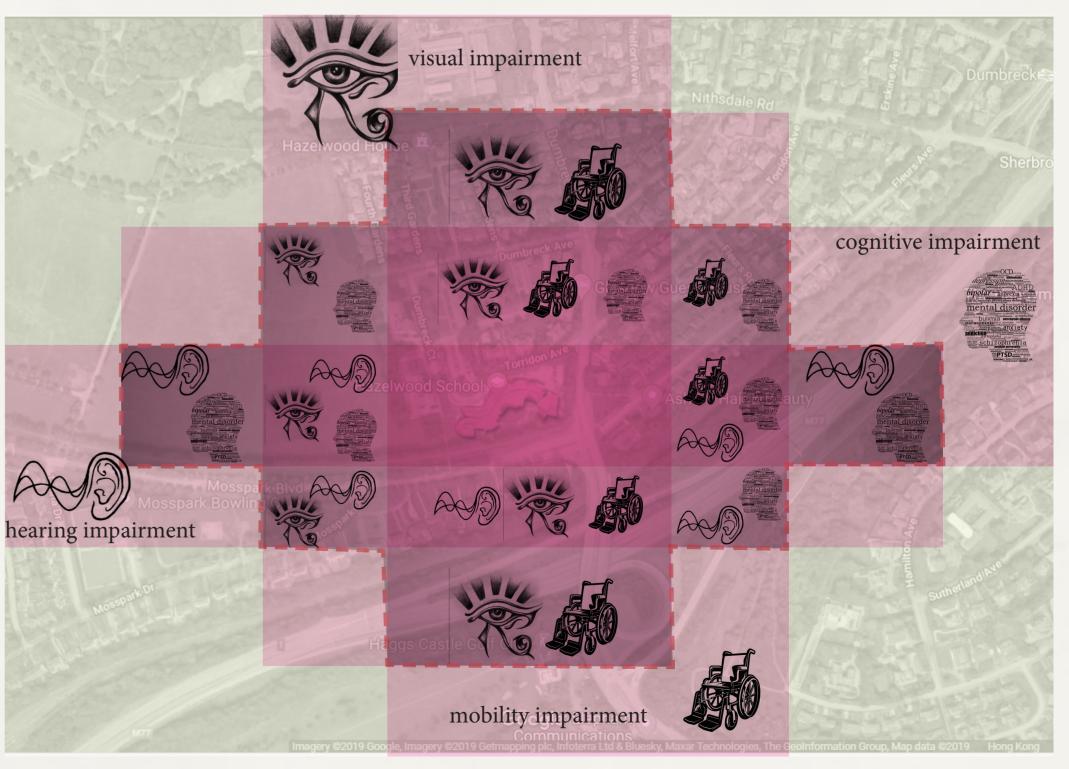


ARCHITECT

Alan Dunlop is a fellow of the Royal Incorporation of Architects in Scotland (RIAS) and an alumnus of the Glasgow School of Art. He recently served as the distinguished Victor L Regnier visiting chair in architecture at Kansas State University and as chair of contemporary architectural practice at the University of Liverpool. He is now a visiting professor at Robert Gordon University, Scott Sutherland School of Architecture, and the University of Liverpool. He was the external examiner at XJTLU School of Architecture in Suzhou, helping it become the first school of architecture on mainland China to receive accreditation from the RIBA. He has written extensively on architecture and urban design. Two books on his work, Challenging Contextualism and Curious Rationalism, have been published.



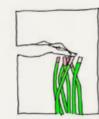






PROTECTION - INTERACTION - ADAPTATION











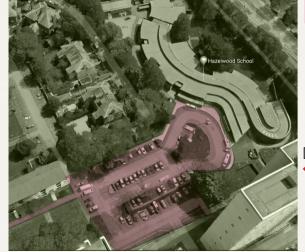




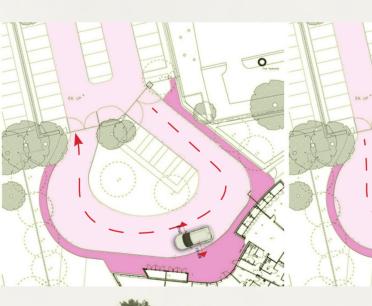
MORE THAN VISION



THE STUDY OF THE TRAFFIC SYSTEM AND ENTRANCE











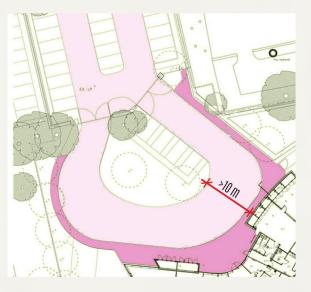


INTERACTION WITH PASSIVE AND ACTIVE SPACE

The cured design created a wild-angel view from the interior to exterior. The teachers can watch the student from inside to outside, provide robust protection and interaction.

TREE AS THE GUARDIAN

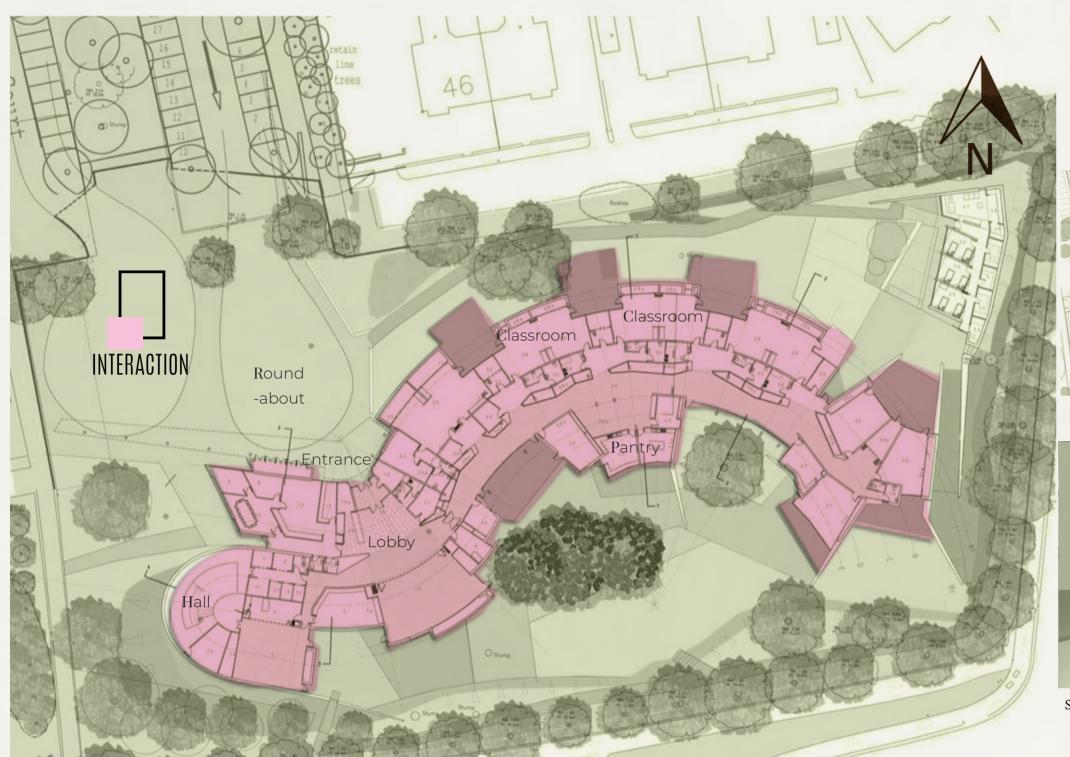
The tree as well as the hug with mother, which separate the driveway and children, to avoid the risk and protect the children with cognitive impairment away from lost.



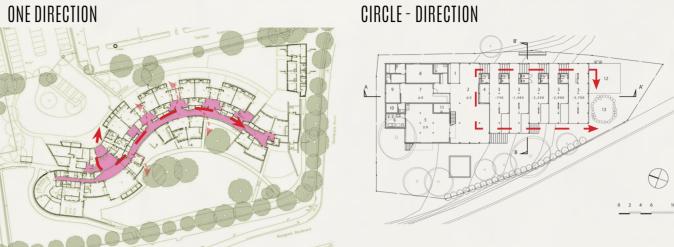
CONCLUSION

Considered with there are so many disabled students, the larger roundabout creates more space for drop-off, the clock-wise direction avoids student cross the road to protect them away form risk.

The difference in the material used for driveway and pavement, which is a finda-way system for students with visual inperment identify their way to avoid the accident.

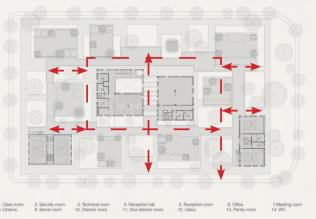


CIRCULATION SYSTEM FOR SCHOOL



Hakusui Nursery School – Yamazaki Kentaro

MULTI - DIRECTION



Viettel Academy Educational Center - VTN architects

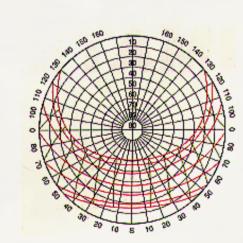


Single direction circulation creates a safety circulation for students with impairment to avoid the bump.

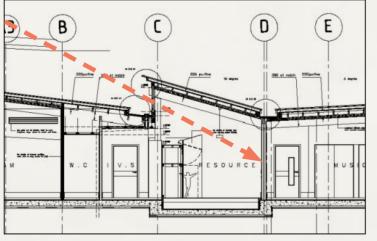
SPATIAL STUDY OF CORRIDOR

SUN CHARTS AND VETILATION STUDY











HIGH HEADROOM AND WINDOWS

The High headroom design of the corridor able to invite the natural lighting to the interior, students are able to feel the sun-shine and the temperature of the wall to find their ways.

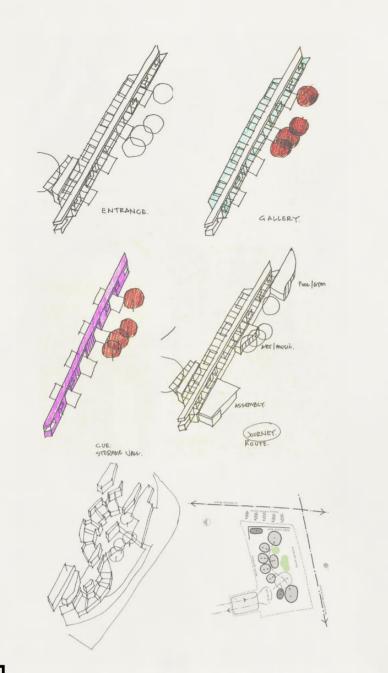
INTERACTON WITH THE LANDSCAPE



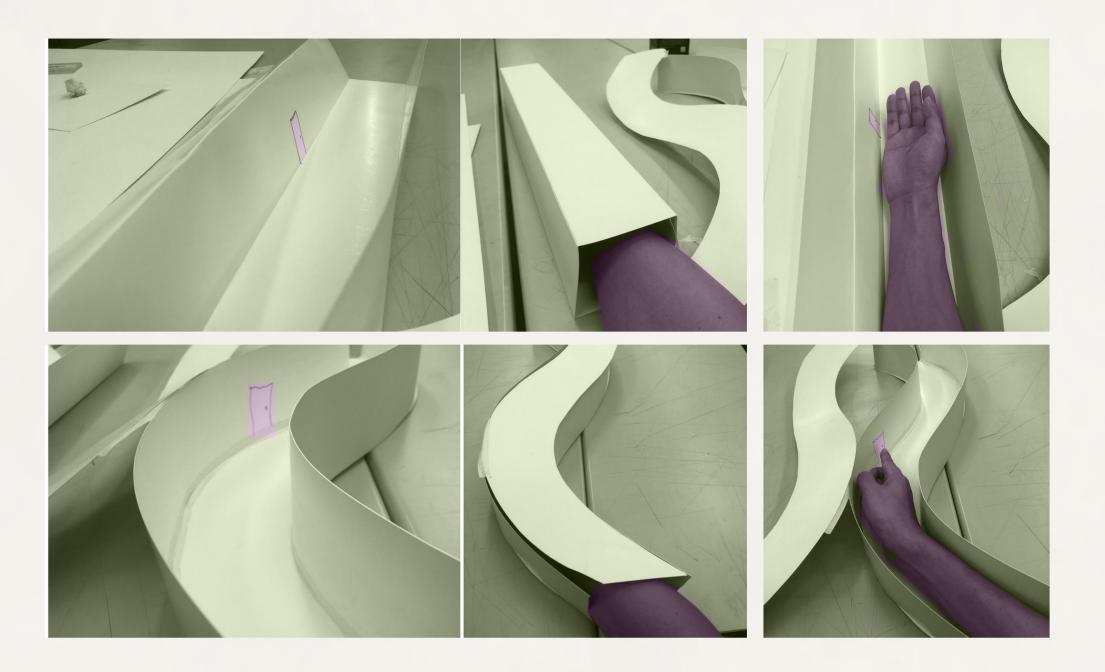
The curved shape design like a snake, which correctly links with the landscape.

П

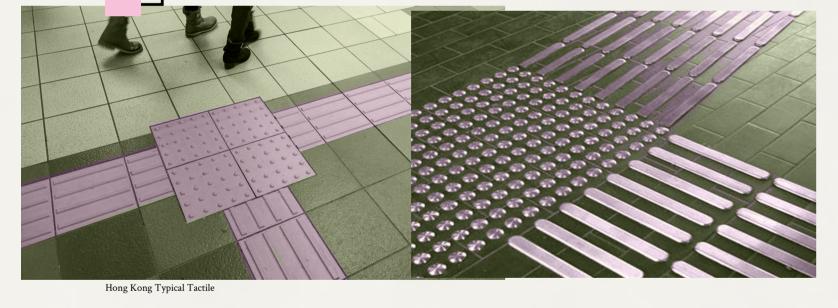
DESIGN EXPERIMENT : CURVED CIRCULATION BENEFIT WAYFINDING

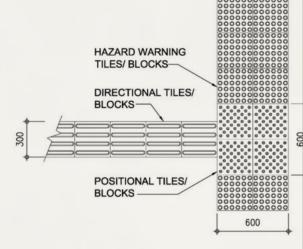


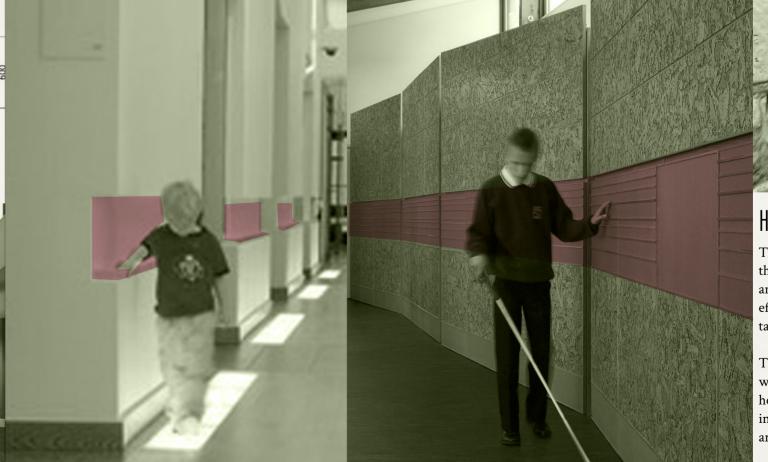




ACCESSIBLE CULTURE BETWEEN HONG KONG AND HAZELWOOD







HIGH HEADROOM AND WINDOWS

The difference texture used to the wall, create the wayfinding system for visual impairment, and there are directional flooring is much effective and user-friendly than the typical tactile system in Hong Kong.

The school users are able to find their way with touching difference materials, smell, hear or temperature, it makes an interesting interaction between people and the architecture.







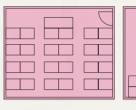


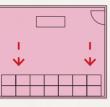


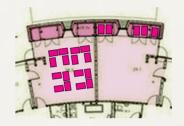
COMPARE WITH HONG KONG TYPICAL CLASSROOM













The Classrooms of hazelwood school are multifunction, the furniture often relocate for difference events, and the spaces need no column to make more transformable, the frame structure helped to create a columnless space for classroom and multi-function

When the classroom without extra storage space, we usually put all the table to the back of classroom to create a larger space. However, these move is not able to use the whole classroom.

SPATIAL STUDY - MULTI-FUNCTION CLASSROOM

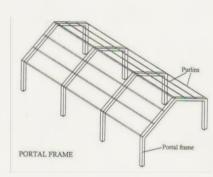


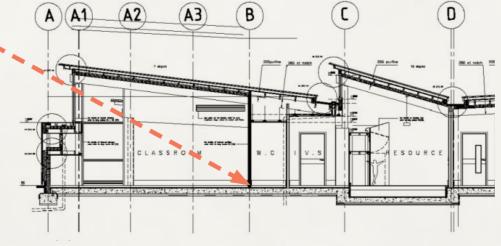
FRAME STURCTURE AND COLUMN-LESS SPACE





room.

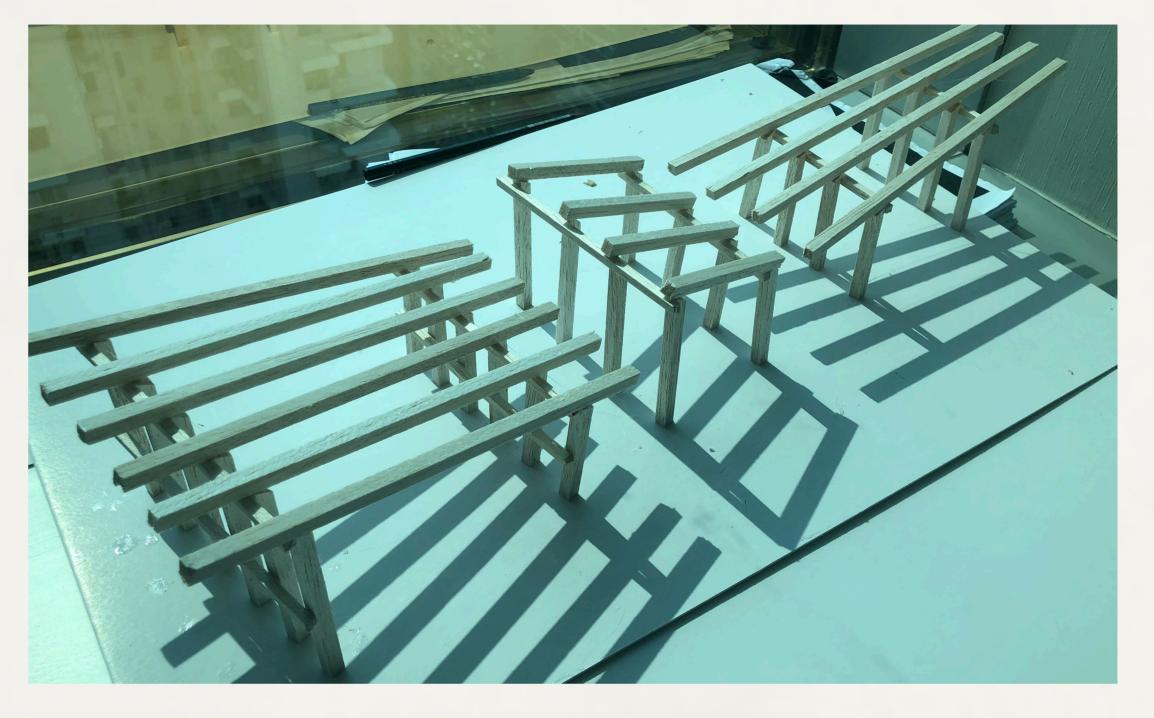




High-level windows are used as some of the students with visual impairments can be easily distracted by (movements/activities occurring outside.)

STRUCTURAL MODULE











No timetable but time able

No attendance but attending

No talks, but tells

No question but ask

No answer but answering

No watching but observe

No direction but directing

No internet but interact



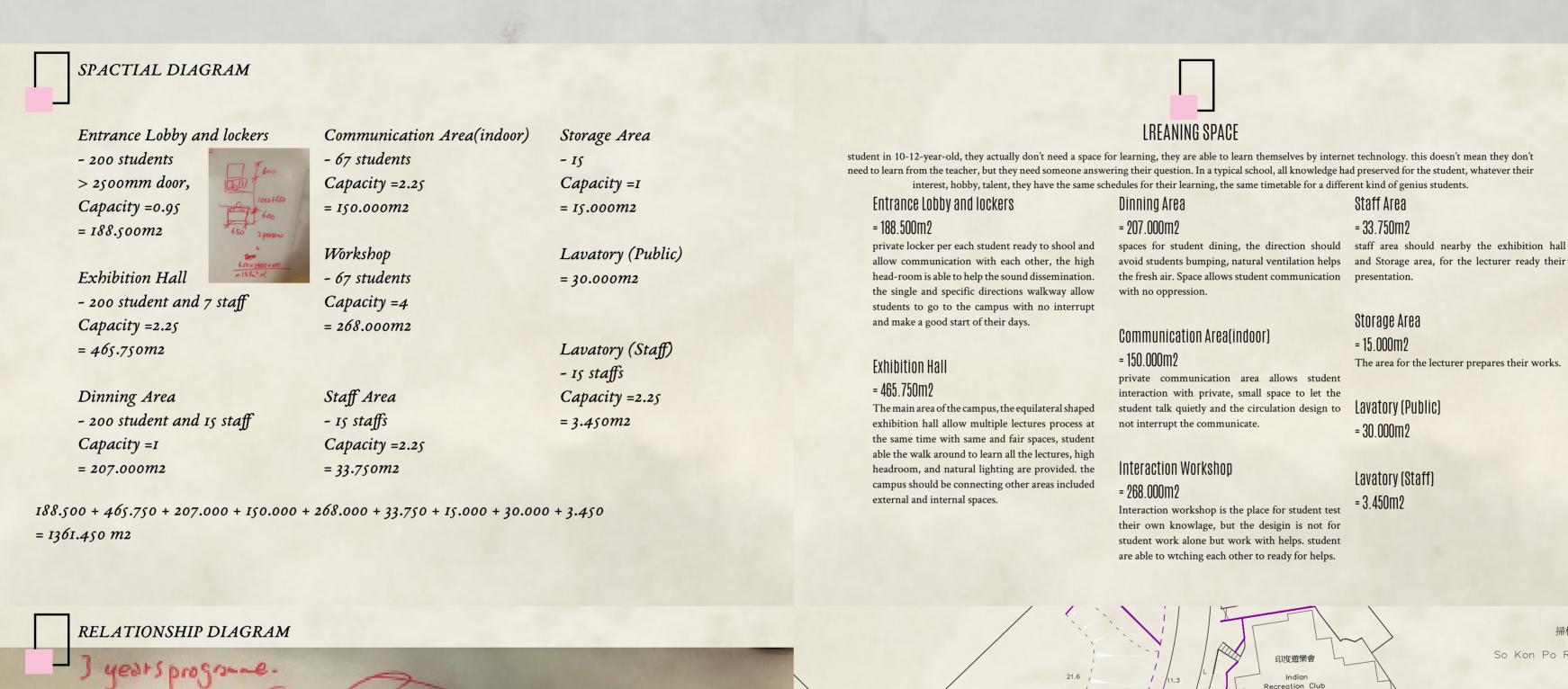
DESIGN CONCEPT

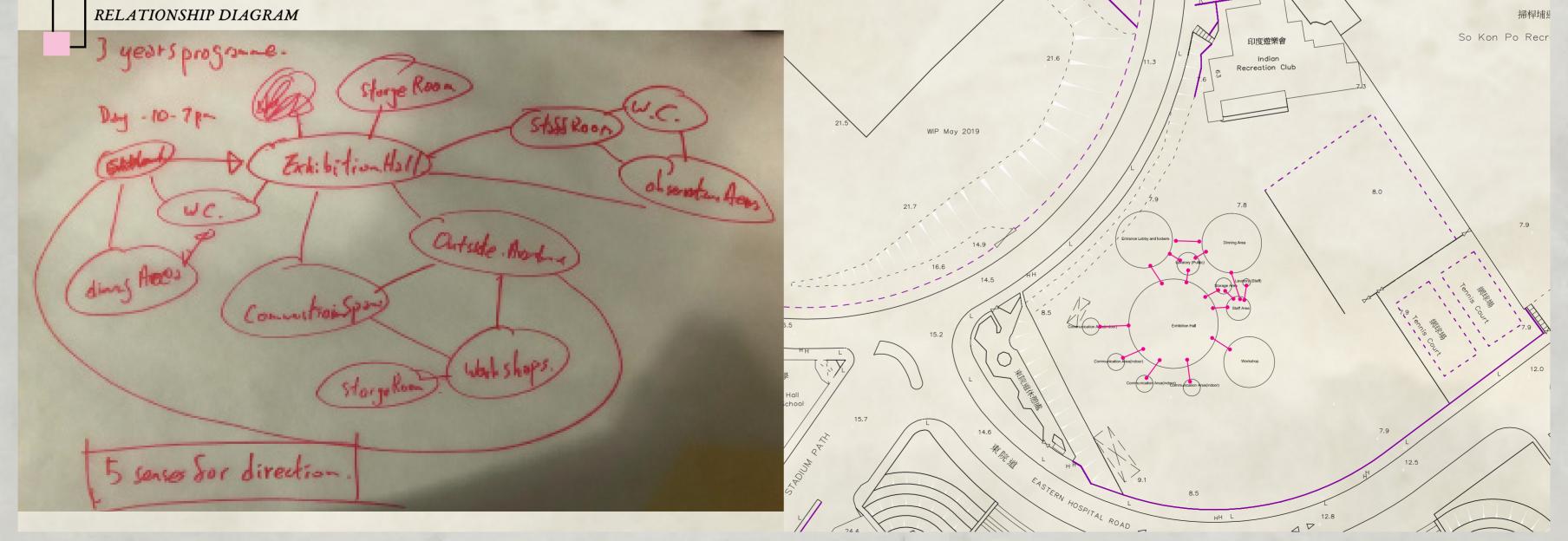
THE



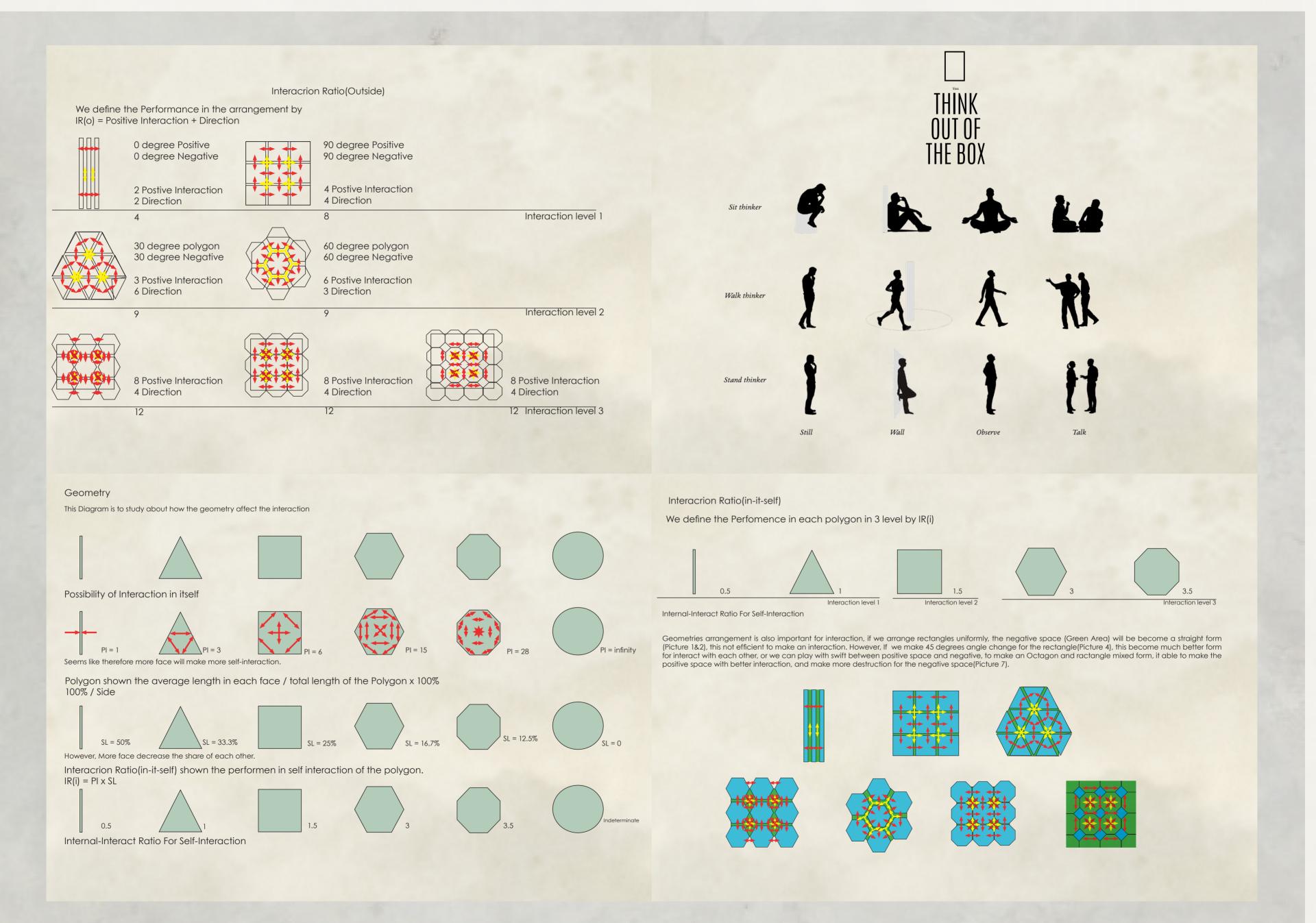


RELATIONSHIP DIAGRAM AND SPACTIAL DIAGRAM

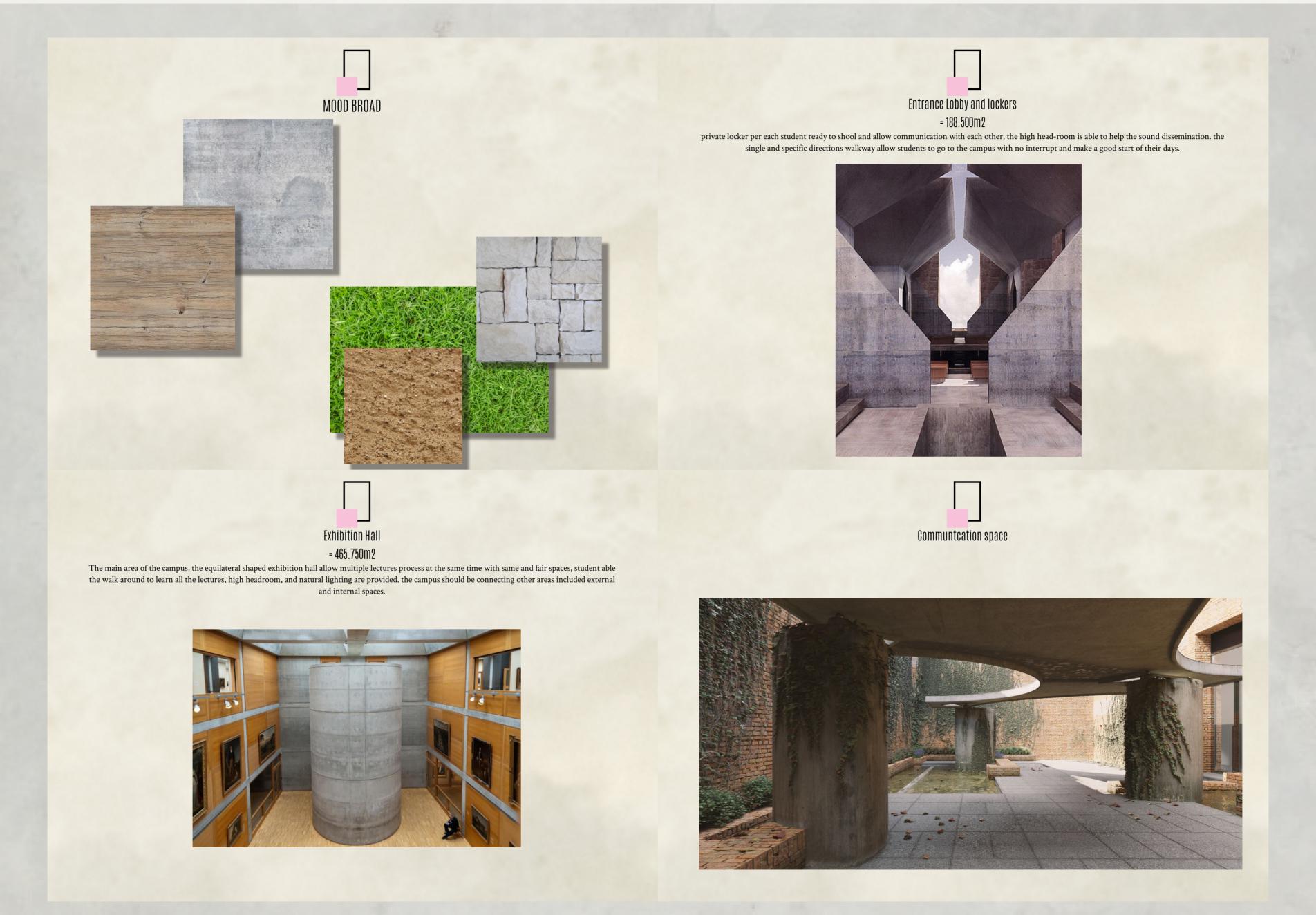


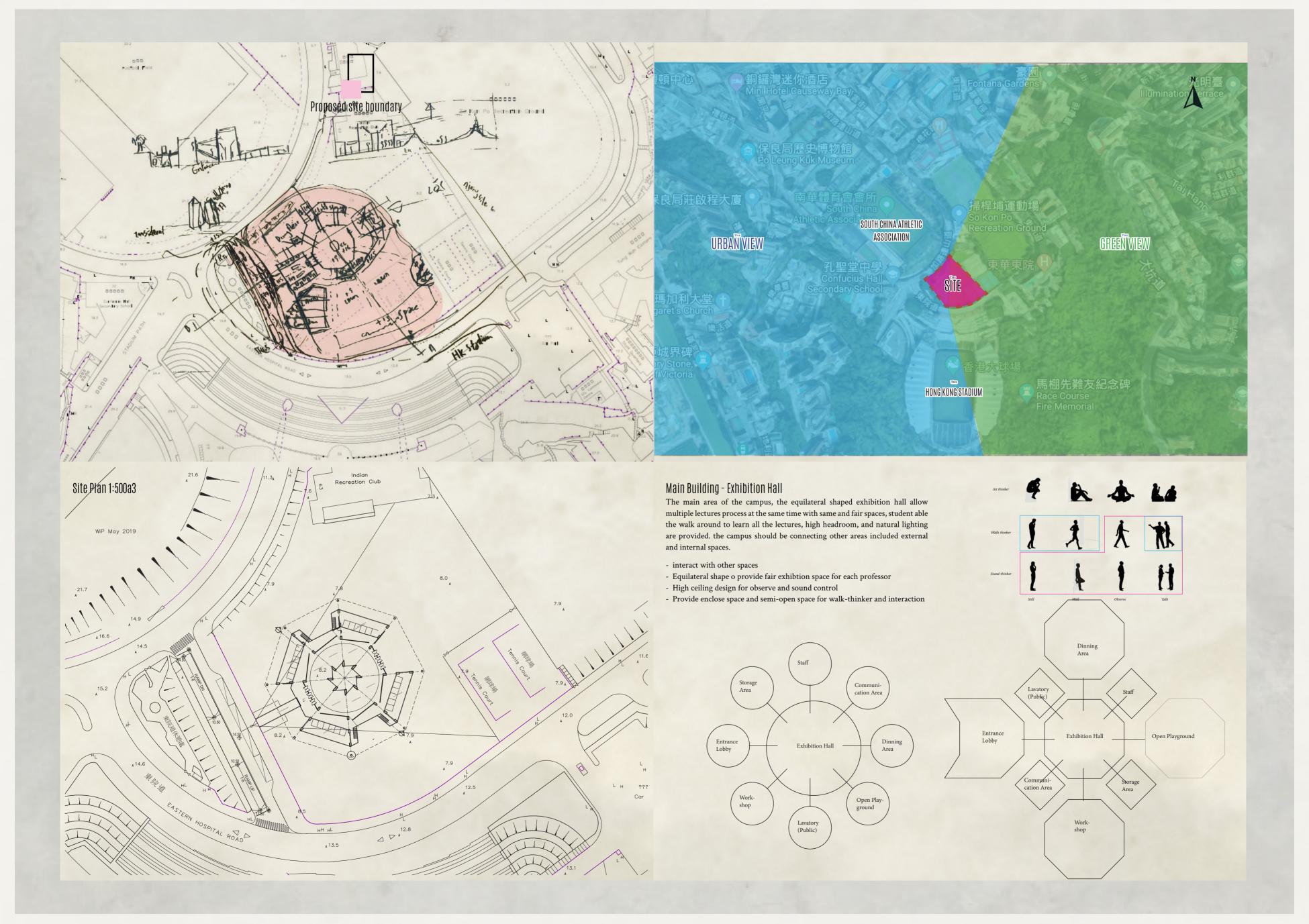


INTERACRION GEOMETIC STUDY



MATERIAL BROAD AND SPACE DESIGN CONCEPT





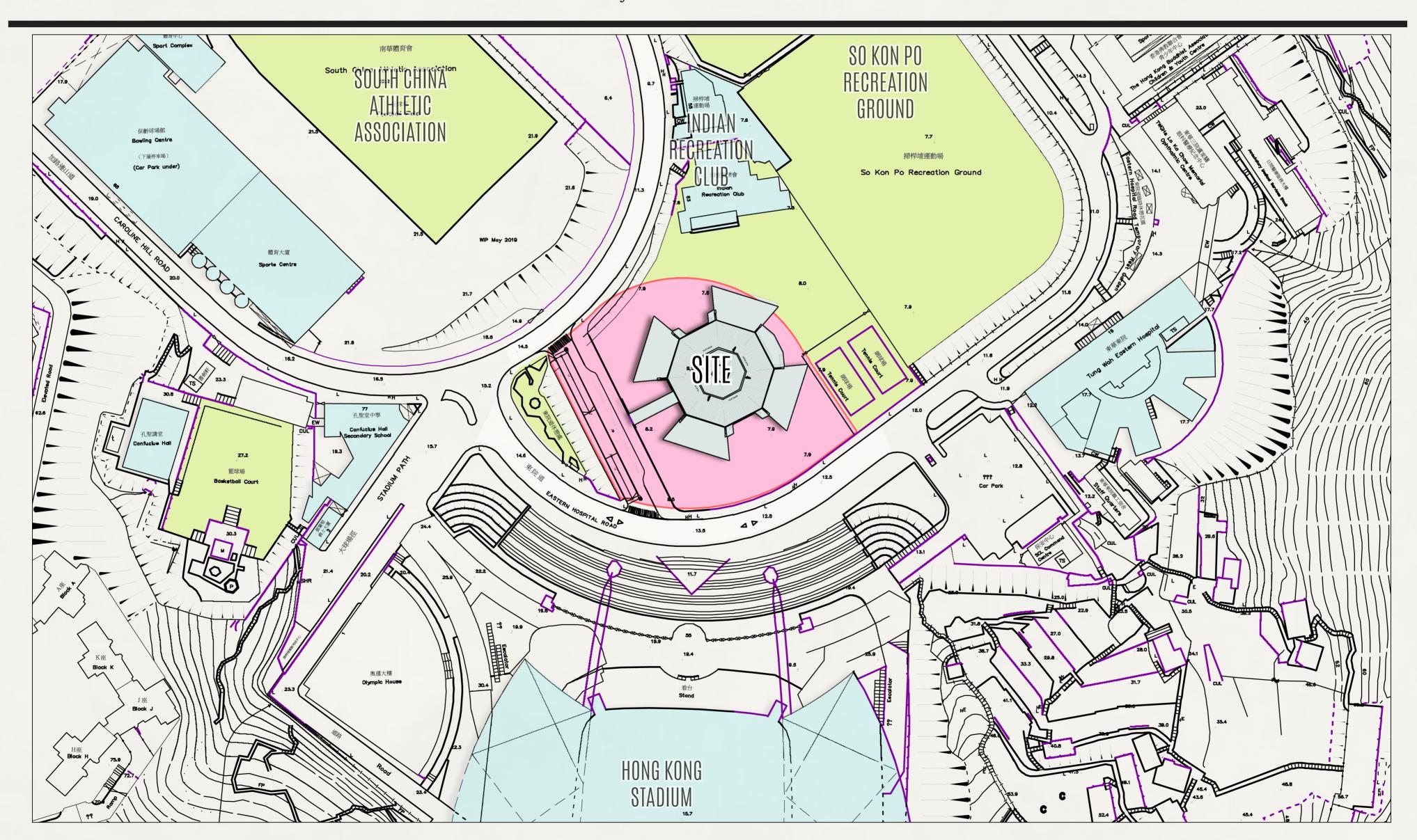


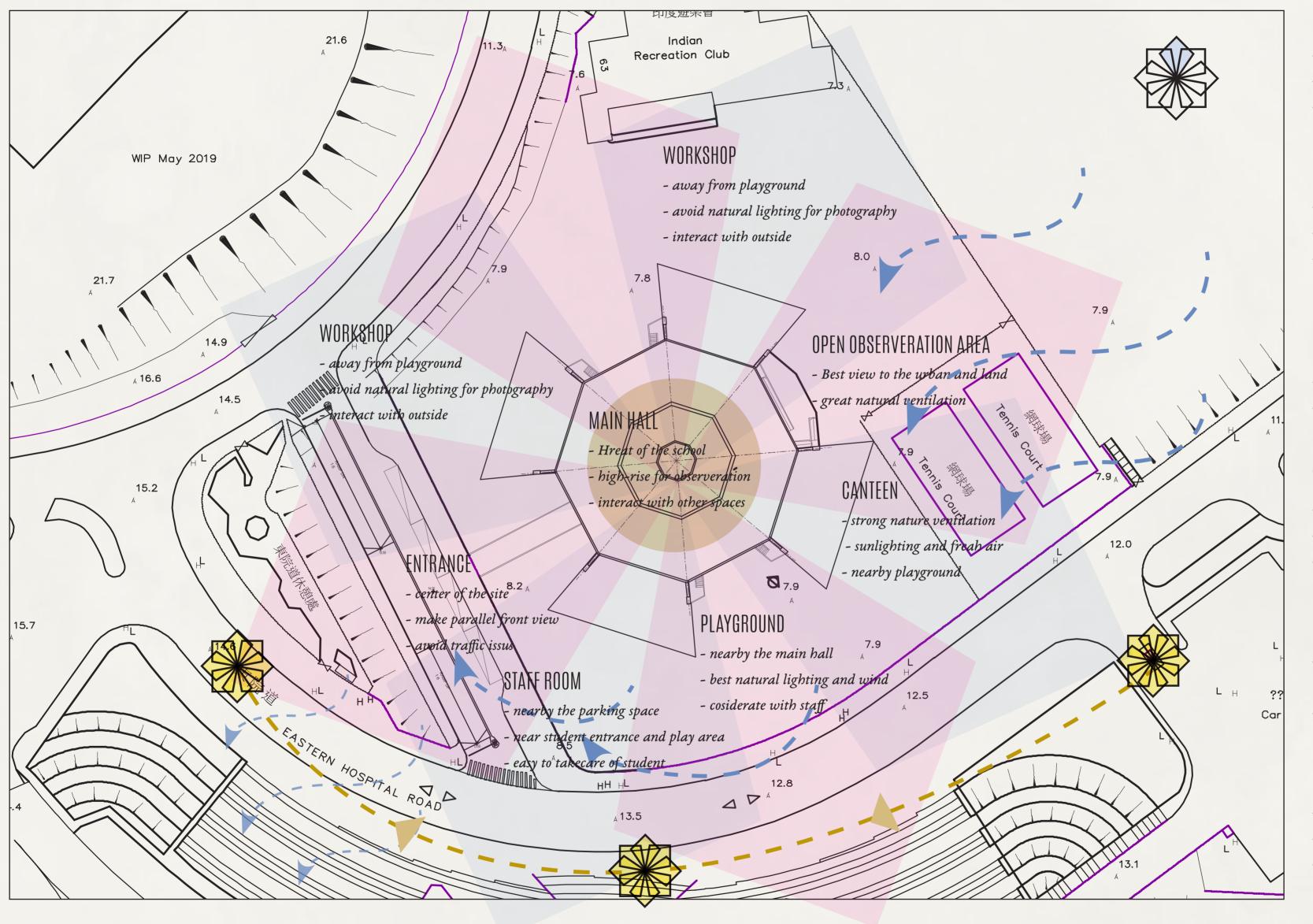
SITE STRATEGY

THE



DESIGN PROJECT IN ARCHITECTURAL STUDY





ENTRANCE

- center of the site
- make parallel front view
- avoid traffic issus

MAIN HALL

- Hreat of the school
- high-rise for observeration
- interact with other spaces

OPEN OBSERVERATION AREA

- Best view to the urban and land
- great natural ventilation

WORKSHOP

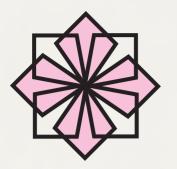
- away from playground
- avoid natural lighting for photography
- interact with outside

CANTEEN

- strong nature ventilation
- sunlighting and freah air
- nearby playground

PLAYGROUND

- nearby the main hall
- best natural lighting and wind
- cosiderate with staff



SENSE OF ARRIVAL



Road crossing (bus drop-off by left hand side)

Option 2

Affact the site quait unsafe for student

RELATIONSHP BEWTEEN OPEN SPACE , SEMI OPEN SPACE AND ENCLOSED SPACE



ENTANCE STUDY OF PROTECTION AND OBSERVATION

Entrance and Exit

The in and out of the school should be protective and convenience, there are two main streets adjoining the site, Eastern Hospital Road and Caroline Hill Road.

Eastern Hospital Road is a two-way road, there are Hong Kong Studium, when there are events at the stadium, that will be busy and unsafe for the students. Conversely, Caroline Hill Road is less affective of the Hong Kong Studium, which makes the protective entrance for the student. For the theory of the exit, that should be provided for people to go multi-direction, the 2-way Eastern Hospital Road allows users to go to the east or west direction, it makes convenience for people leaving.

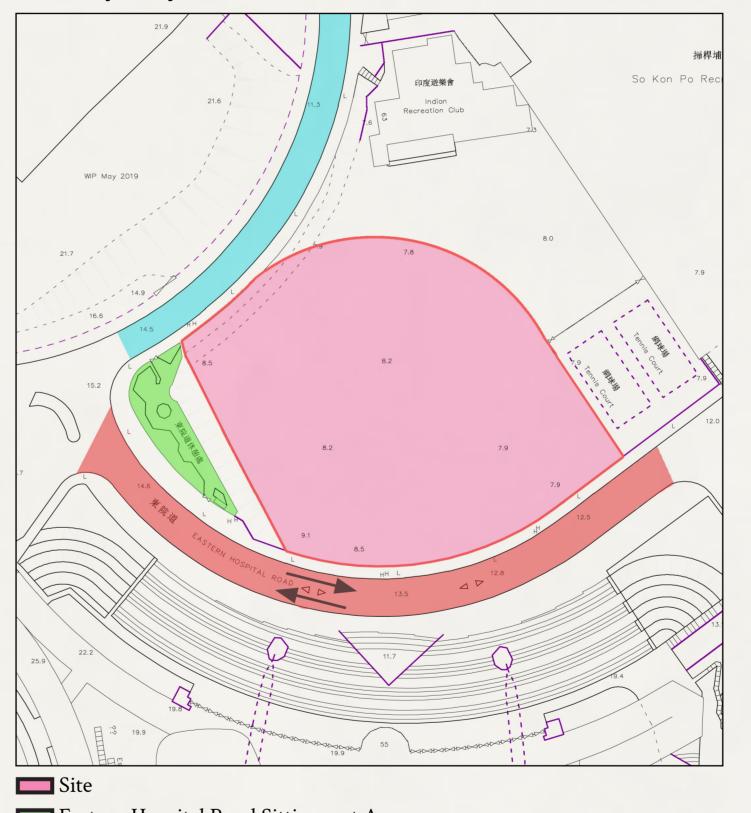


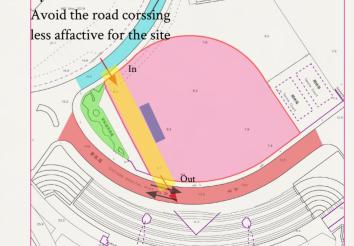
Caroline Hill Road



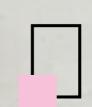
Hong Kong Stadium at Eastern Hospital Road

Drive way Study





- Eastern Hospital Road Sitting-out Area
 Caroline Hill Road.
- Eastern Hospital Road
- Proposed Driveway
- Schoolbus Drop-off



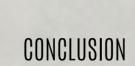
THE STUDY OF THE TRAFFIC SYSTEM AND ENTRANCE

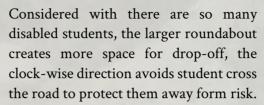
THR RELATIONSHIP BETWEEN MAIN ENTRANCE AND MAIN ARCHITECTURE



Sense of arrival study

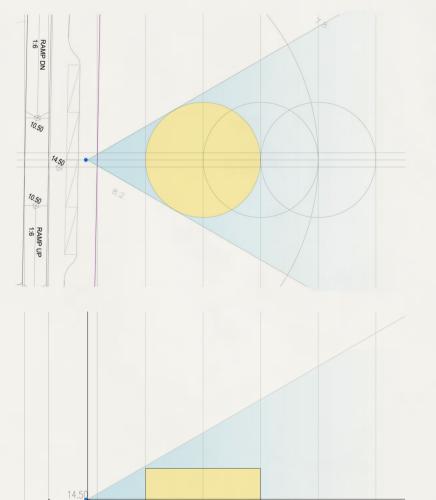


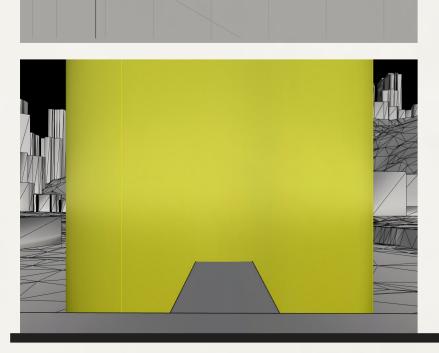


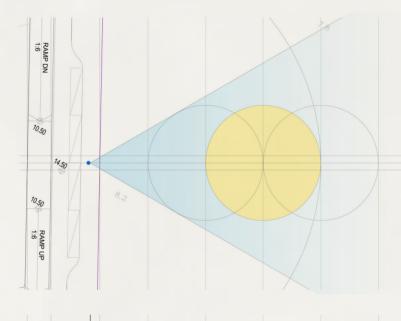


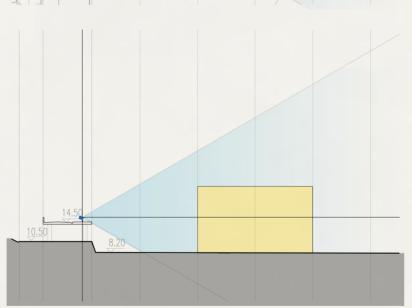
The difference in the material used for driveway and pavement, which is a find-a-way system for students with visual inperment identify their way to avoid the accident.

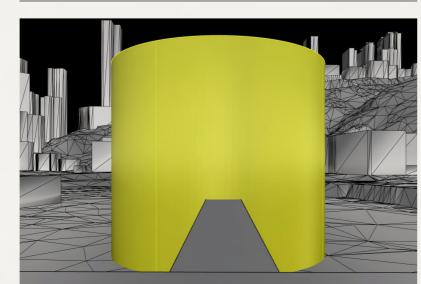


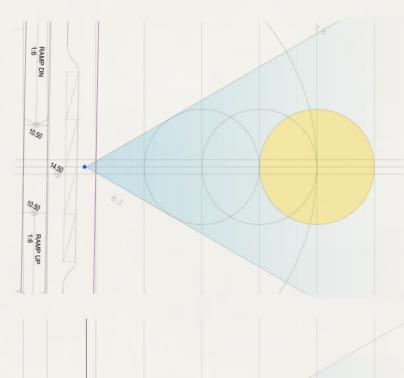


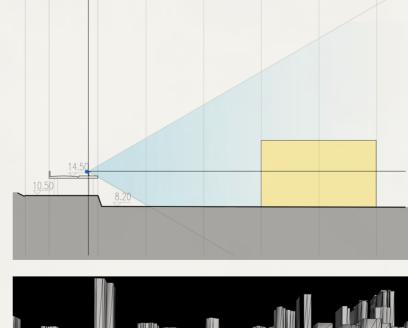


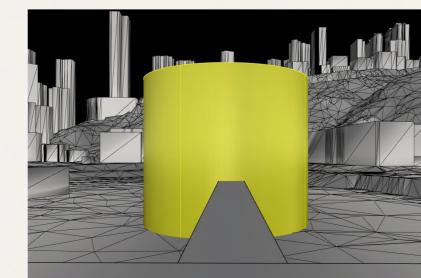


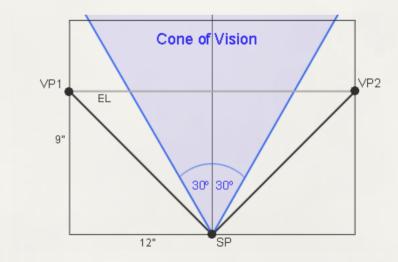


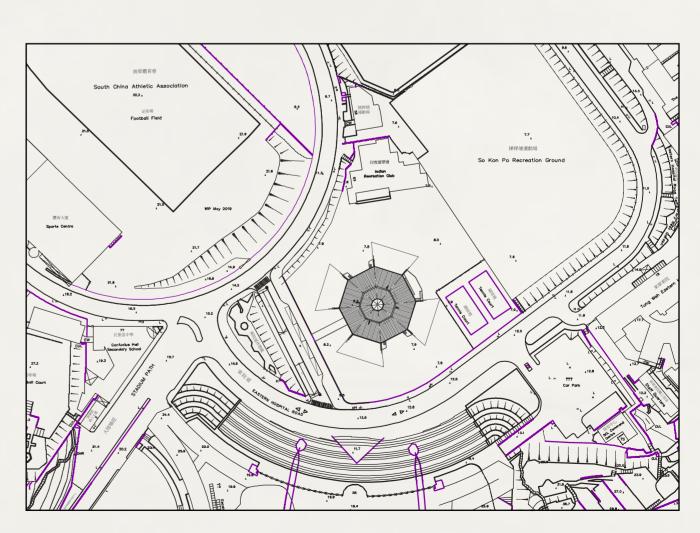












Site Layout Plan 1:2000 @A1



PROGRAMME DESIGN



DESIGN PROJECT IN ARCHITECTURAL STUDY



DESIGN THINKING





















CHARACTER IN THINKING ASSEMBLY

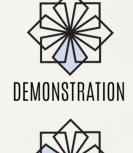
There are 2 main charcters on the assembly, Student and Professor





PROFESSOR





PROFESSION



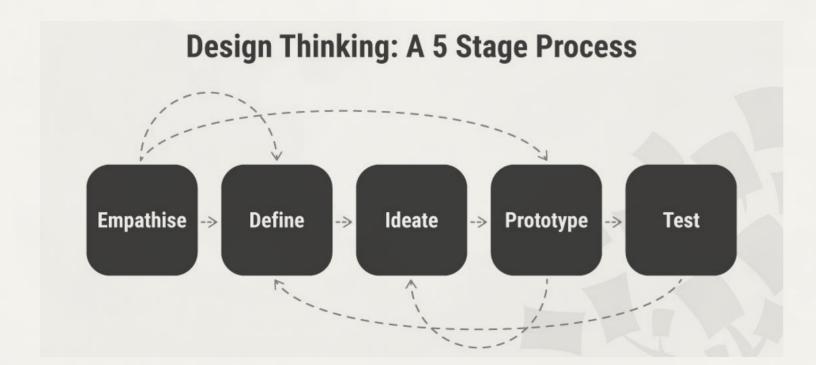














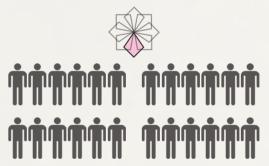
INTERACTION AND TEAM BUILDING







TEAM DISCUSSION

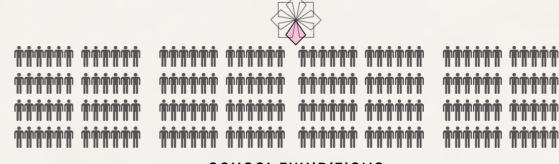


GROUPS PRESENTATION

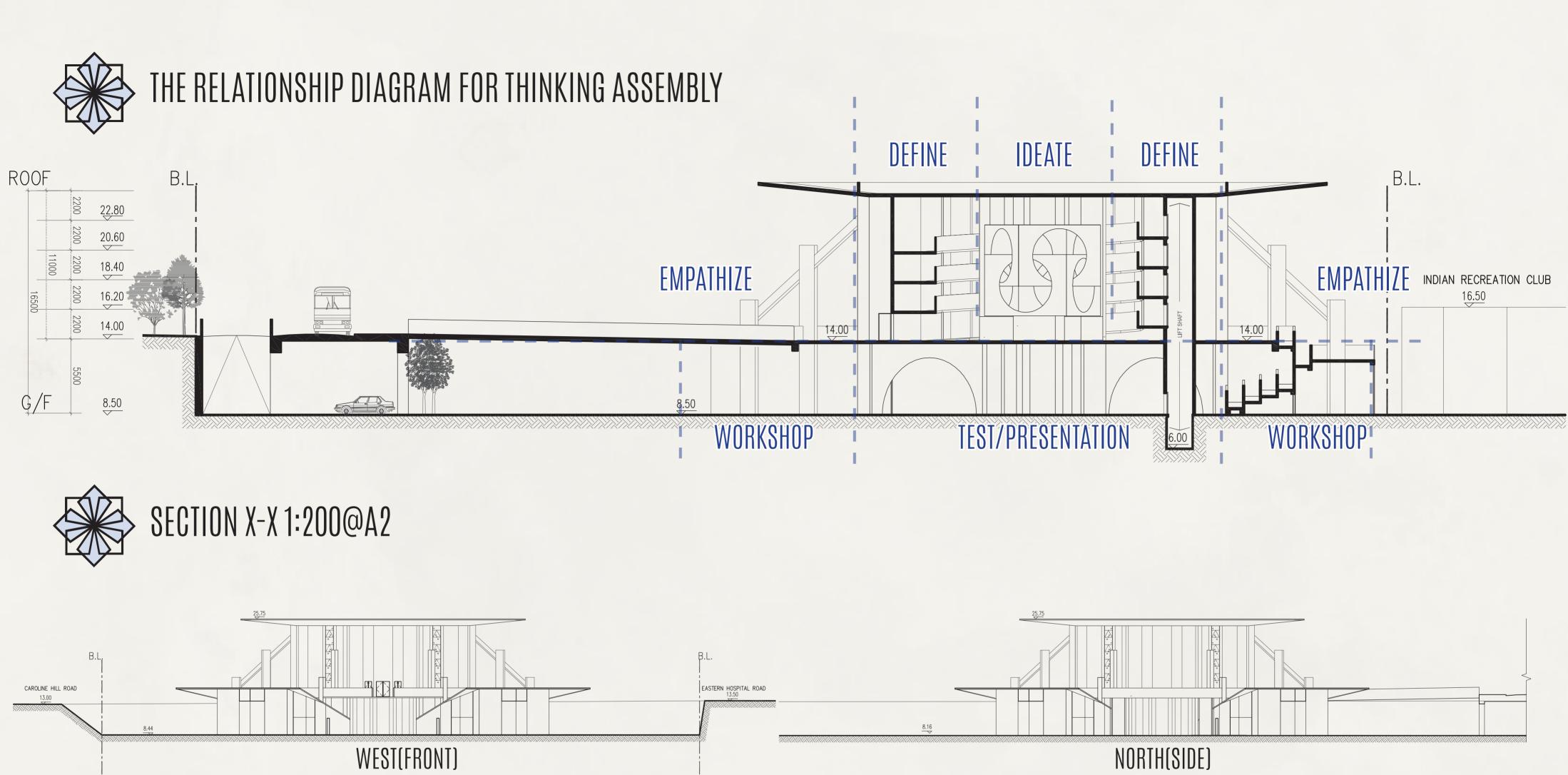


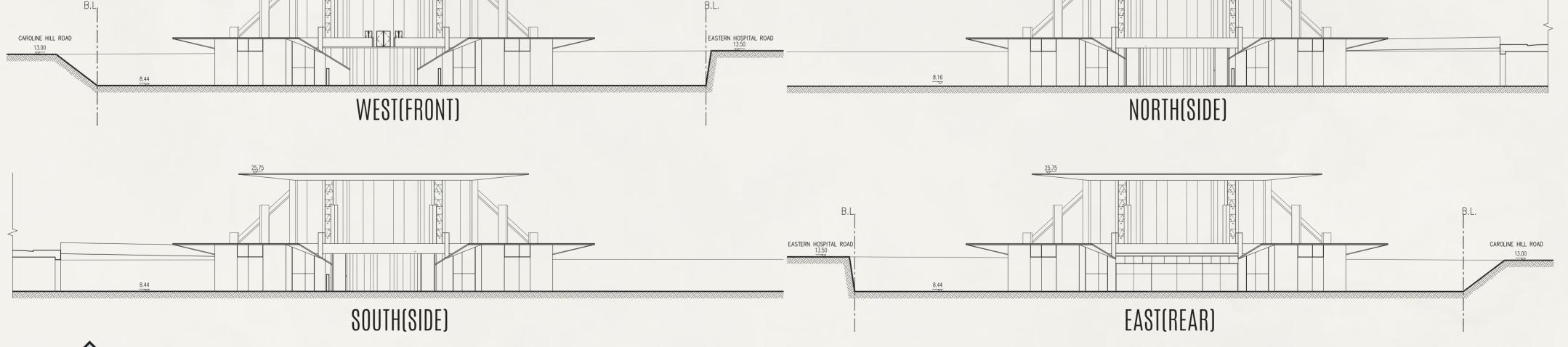


CLASS-WORKSHOPS



SCHOOL EXHIBITIONS





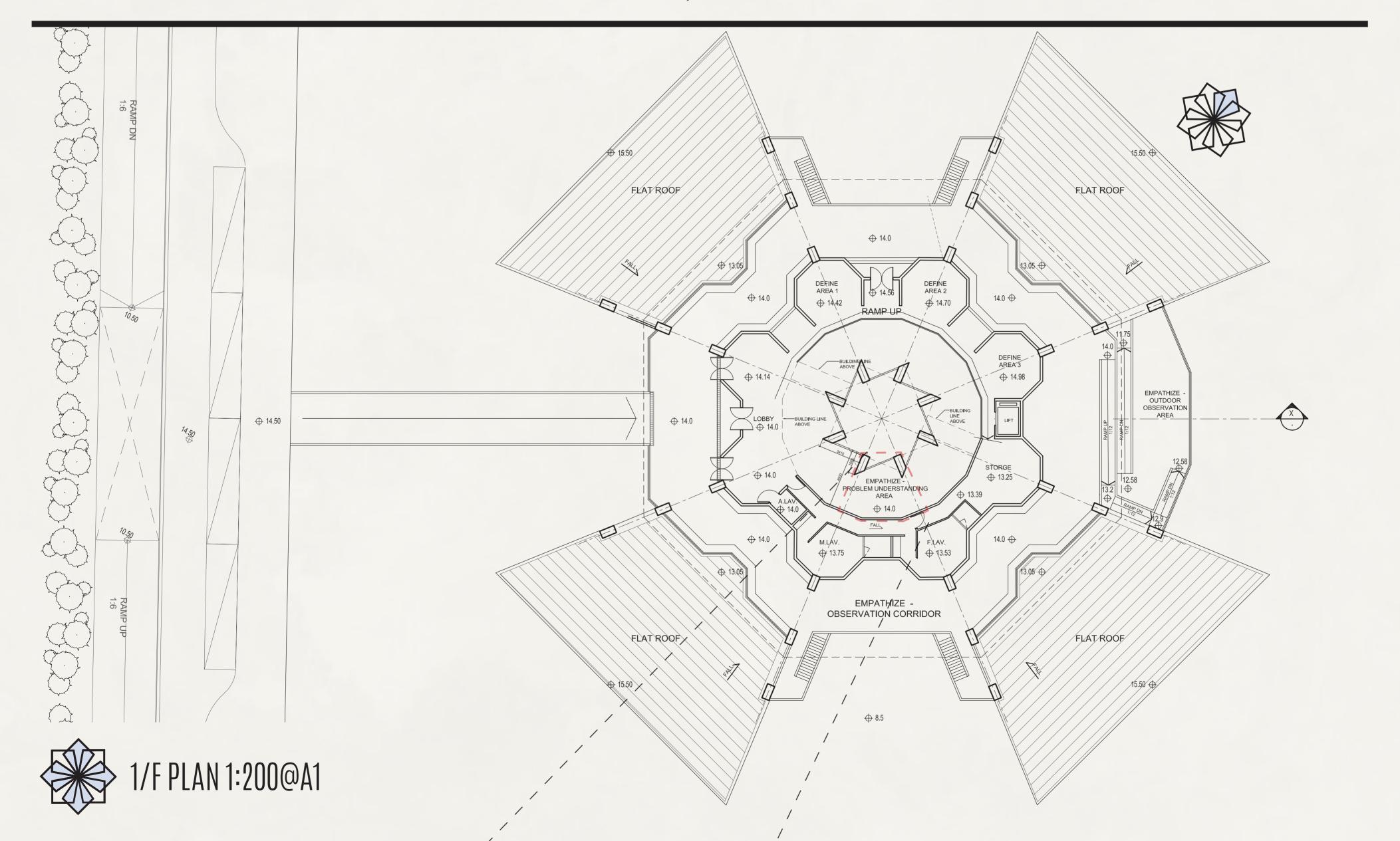
ELEVATIONS 1:400@A2

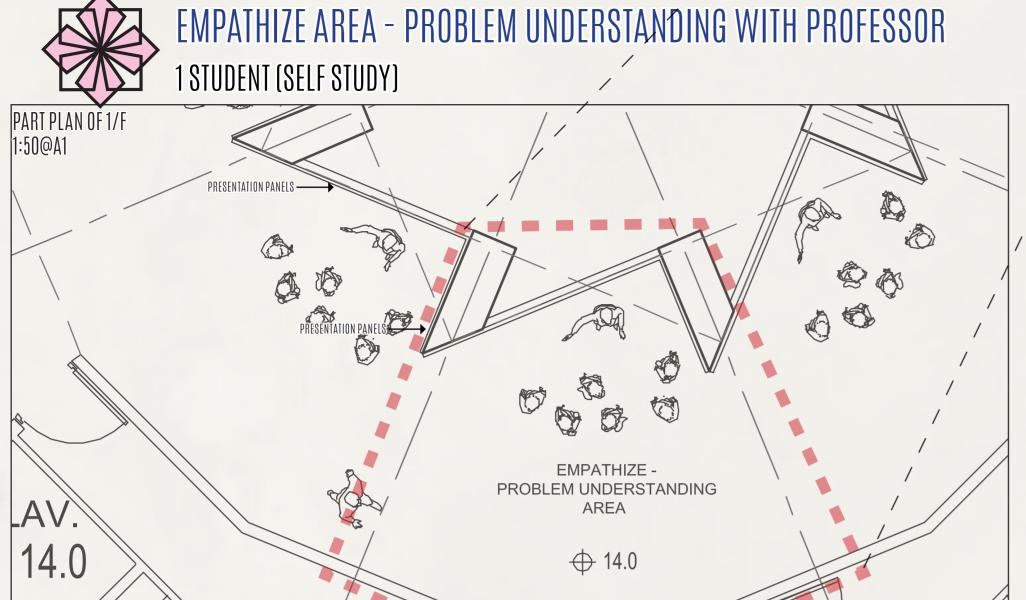
THE

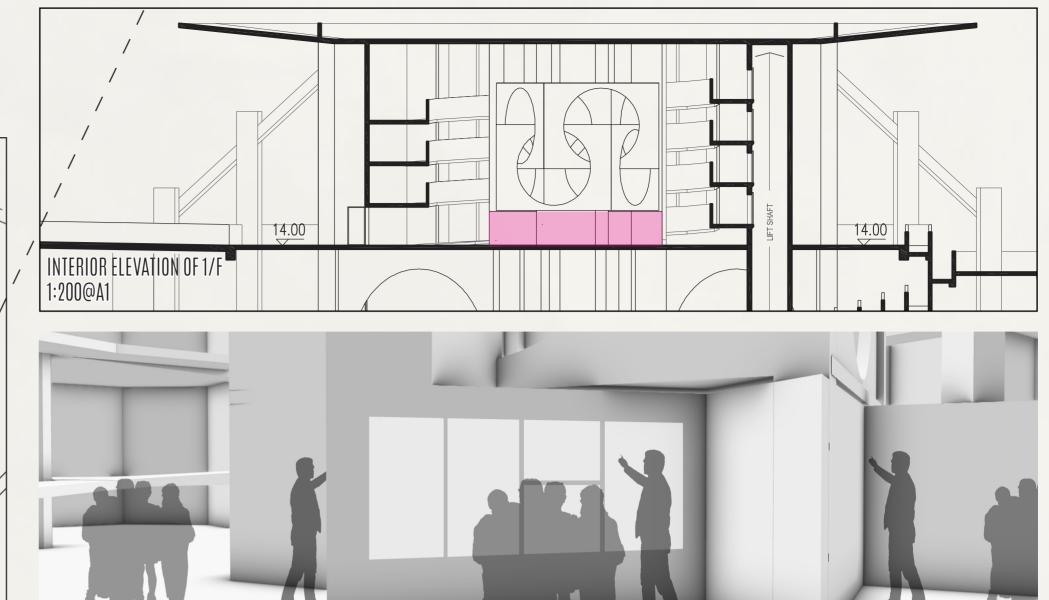


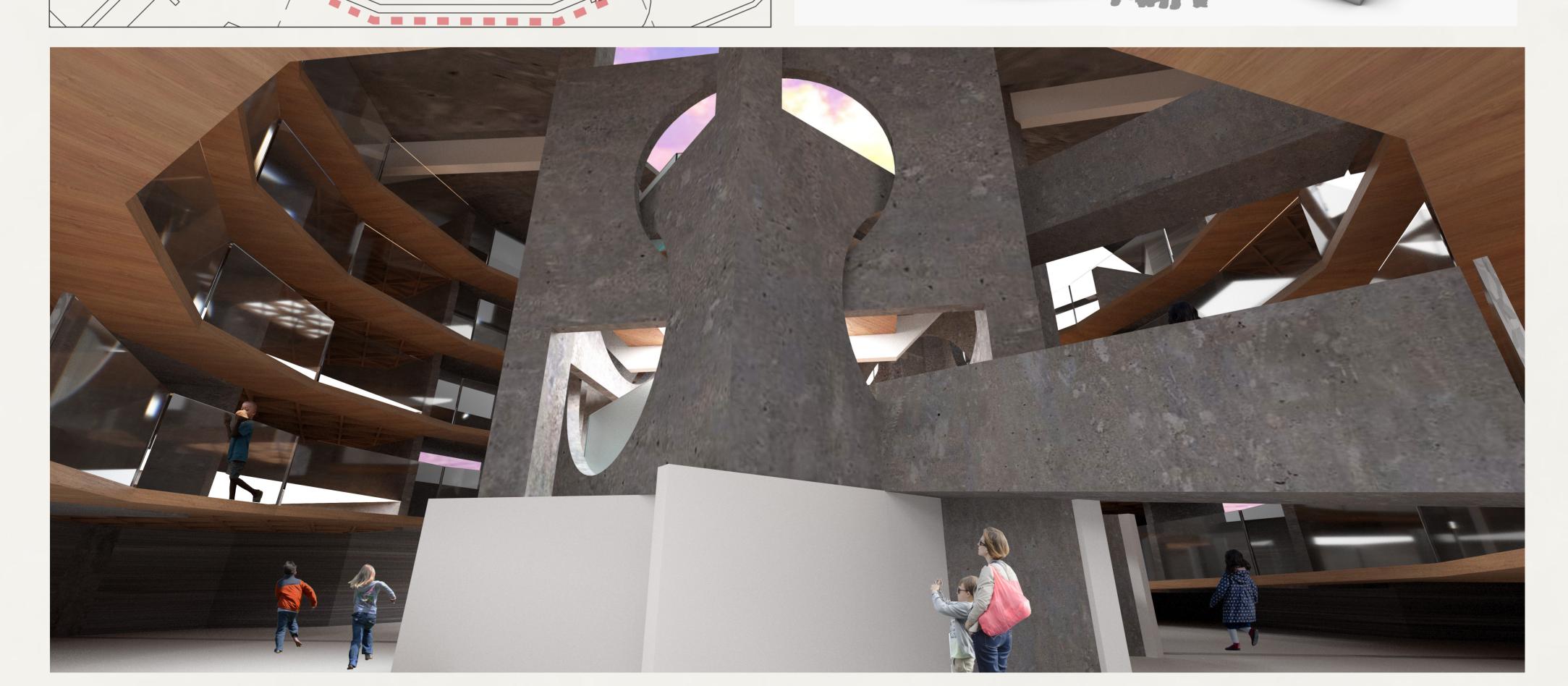
EMPATHIZE AREA









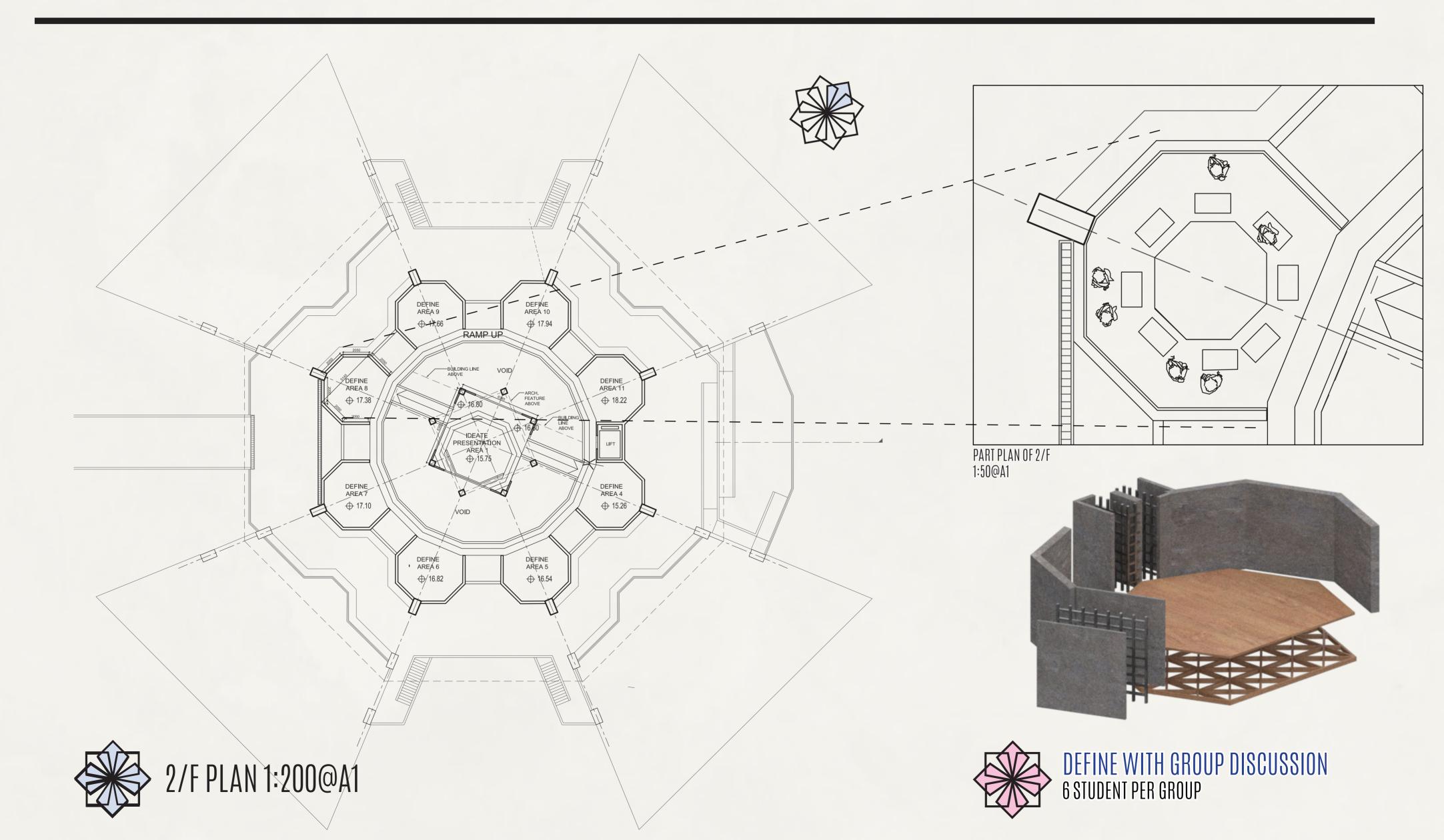




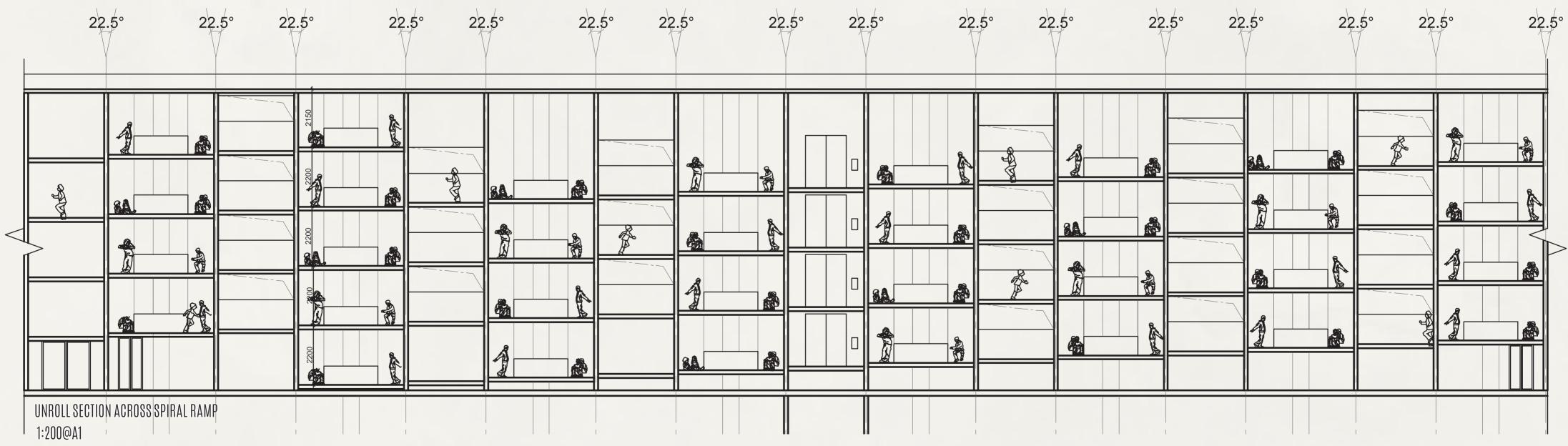
DEFINE AREA

Тне







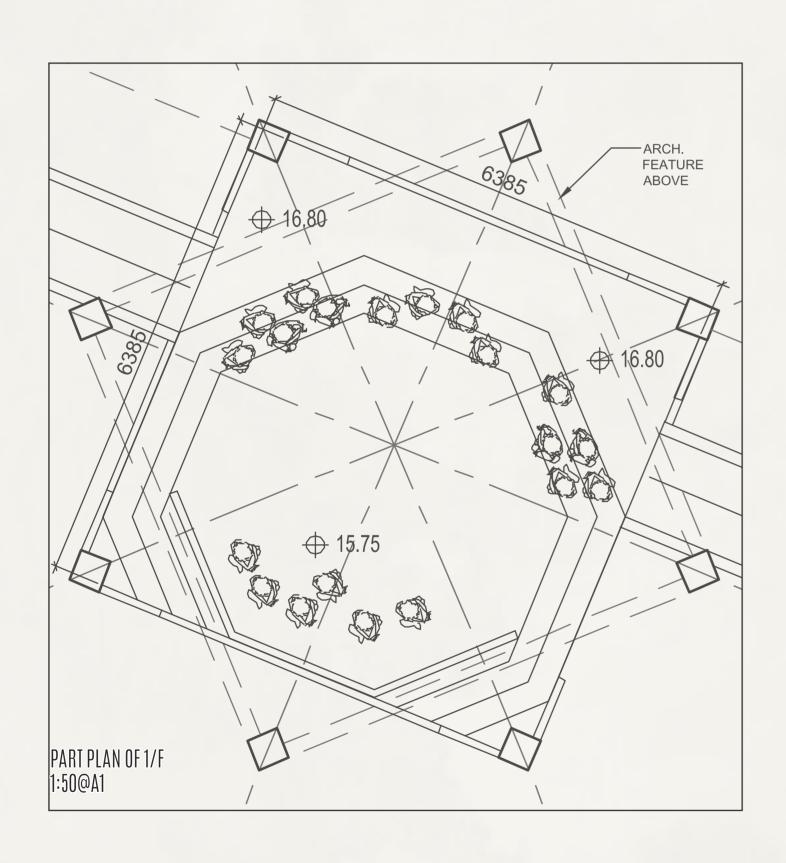


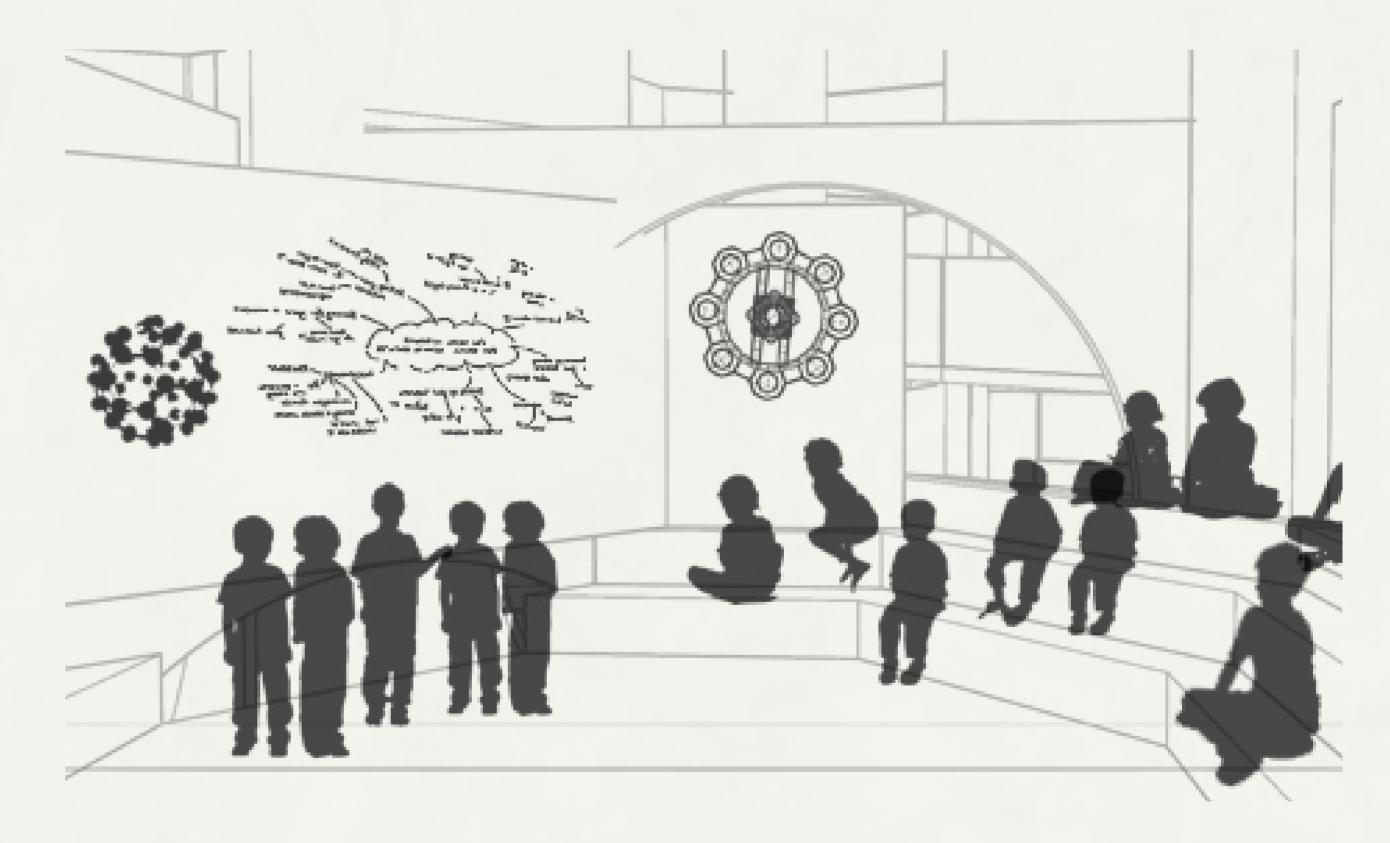


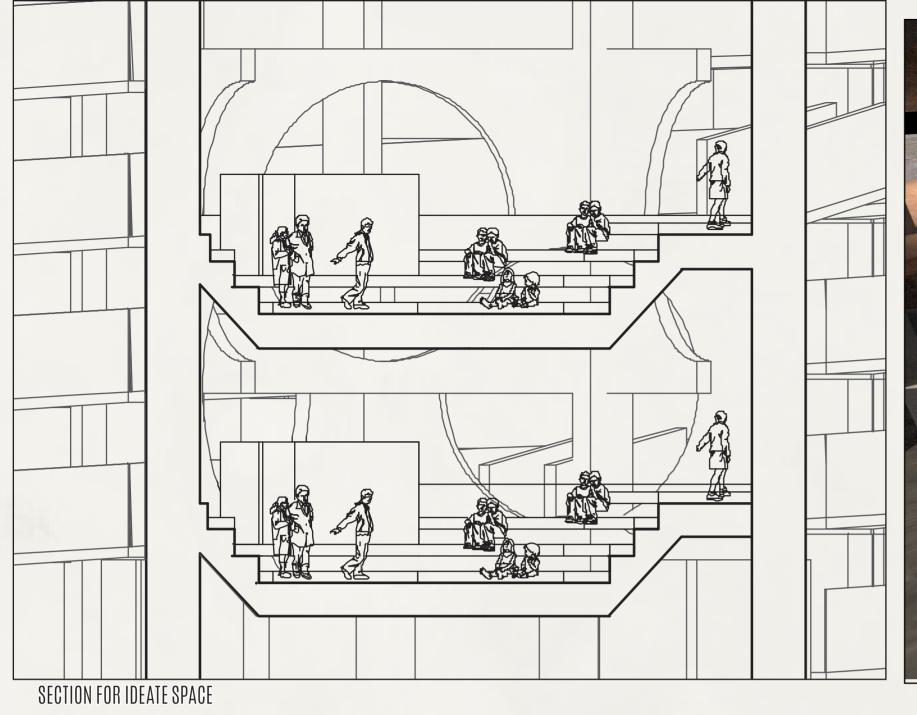
IDEATE AREA

THE



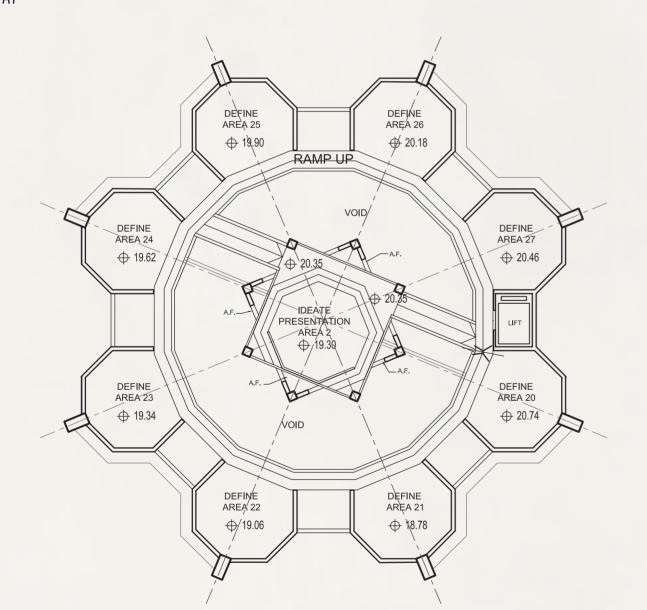


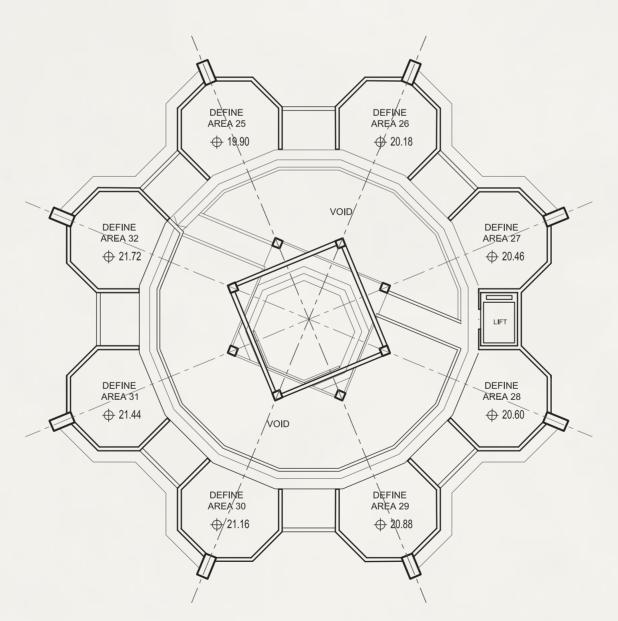


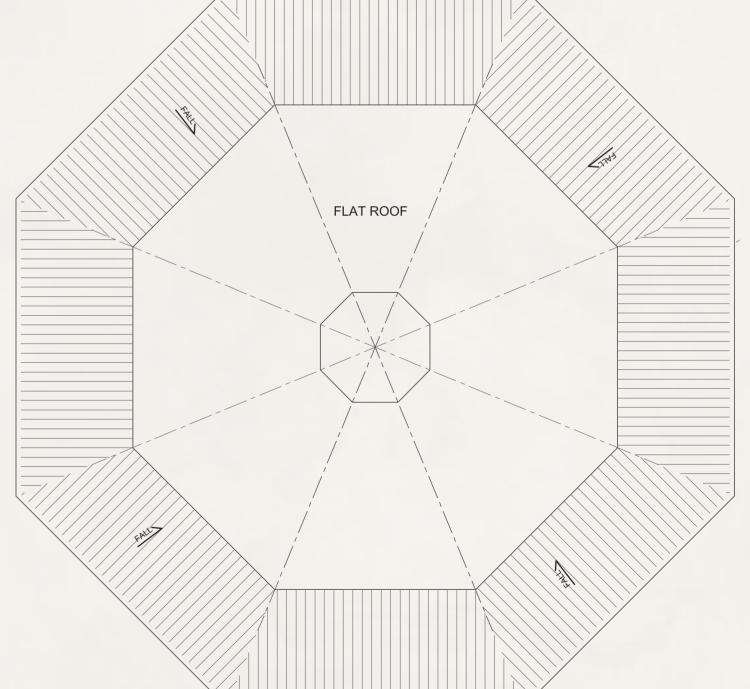




1:50@A1













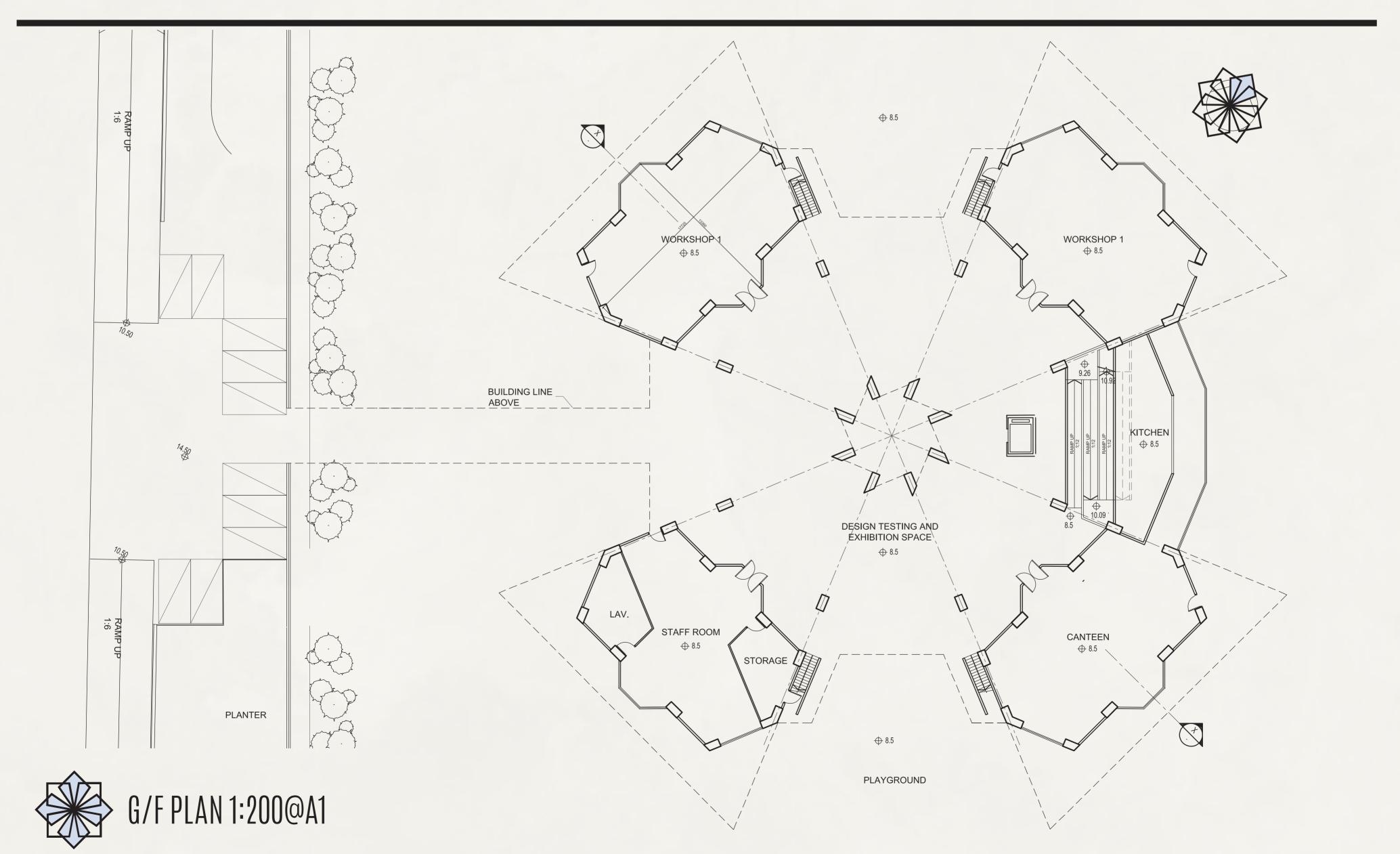
ROOF PLAN 1:200@A1

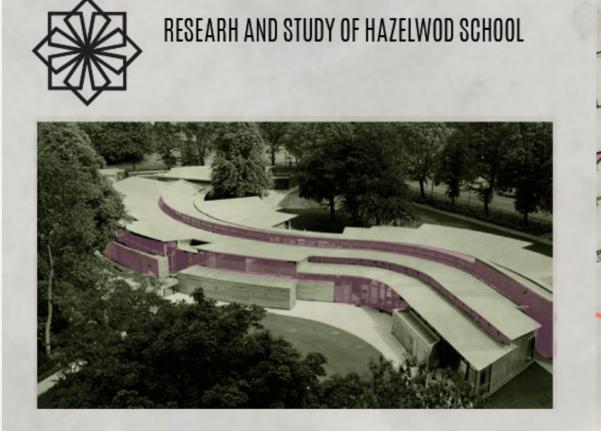
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PROTOTYPE AREA



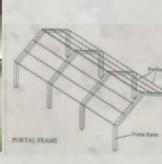




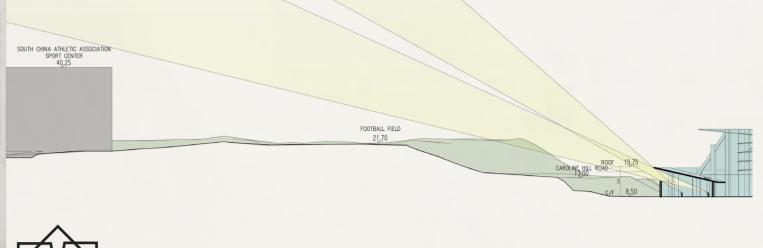


The Classrooms of hazelwood school are multifunction, the furniture often relocate for difference events, and the spaces need no column to make more transformable, the frame structure helped to create a columnless space for classroom and multi-function room.



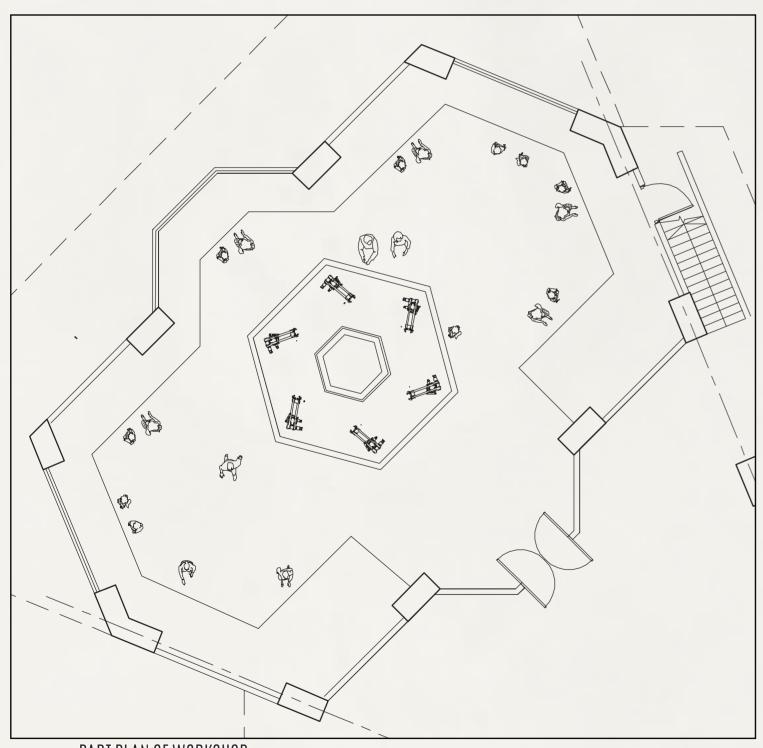


High-level windows are used as some of the students with visual impairments can be easily distracted by (movements/activities occurring outside.)

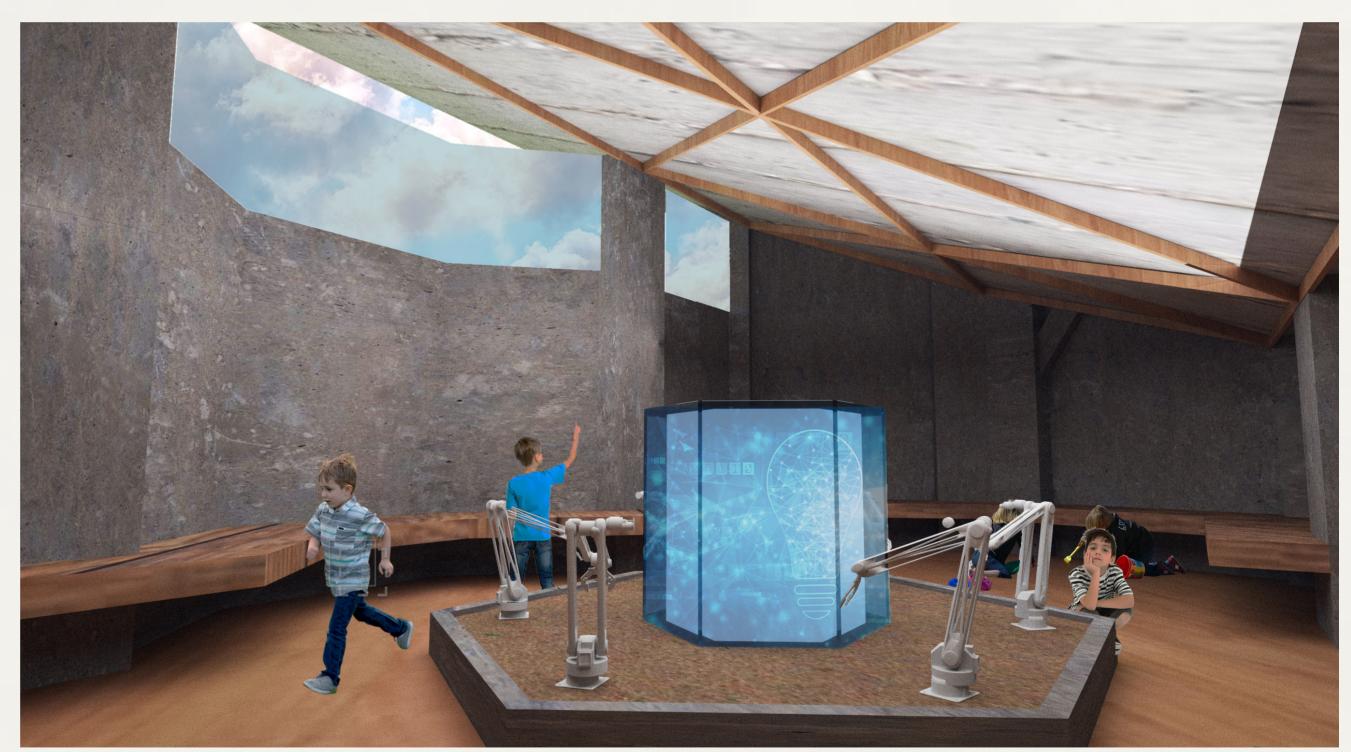




THE ANGLE OF VISION BENEFIT THE INTERACTION WITH NATUAL AND AVOID THE DISTRACTED







PROTOTYPE WITH WORKMATES

STRUCTURAL DESIGN®

DESIGN PROJECT IN ARCHITECTURAL STUDY

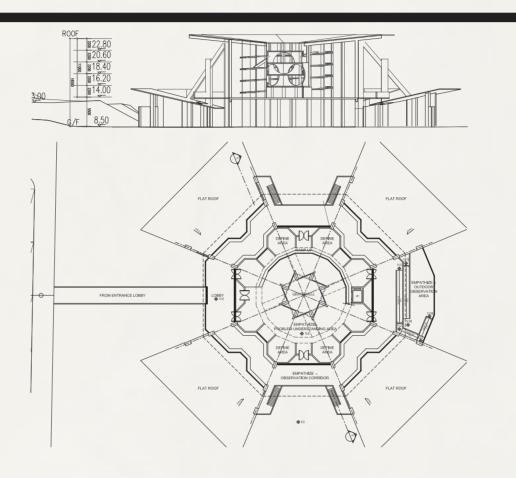


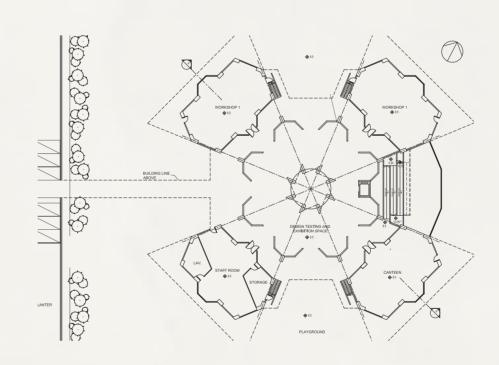
ABSRACT

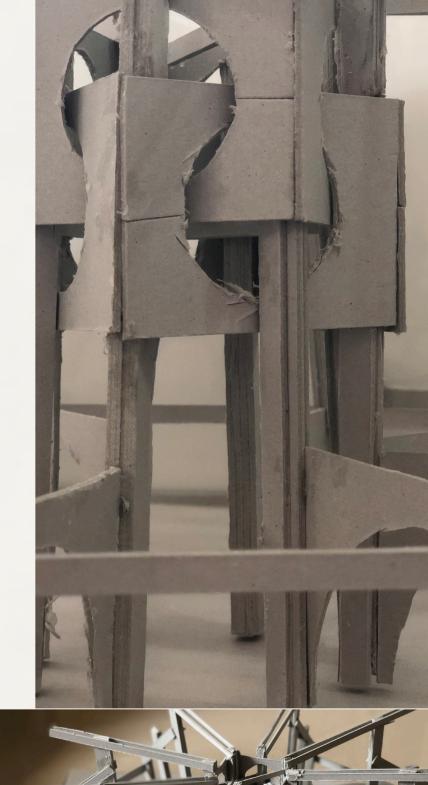
Thinker Assembly is a student leading campus, by the exhibition of professors, students are told to solve problems every day, they can solve the problem by observation, ideate, communication, and prototype in the campus, to learn from interaction with classmates.

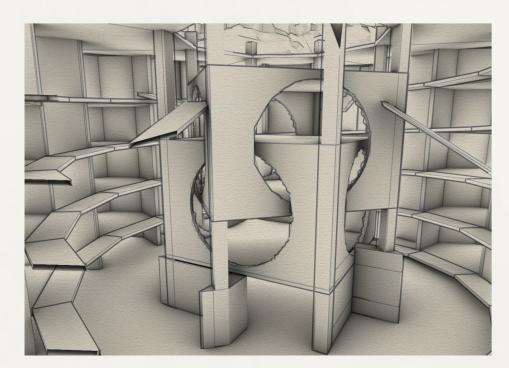
Every single day, there are exhibitions provide in the exhibition hall, and there are four storeies of the communication space around the exhibition area. To create the columnless space for the exhibition, the architecture is using the flying-buttresses system and using arch to create the long span beams.

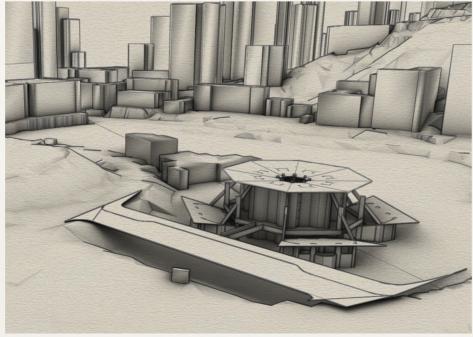
The primary material for the structure is concrete, which is easy to form and allow good compression for high architecture, for some of the long spends beams, the pre-stressed concrete provided to strengthen the tension power in the bottom of the concrete.







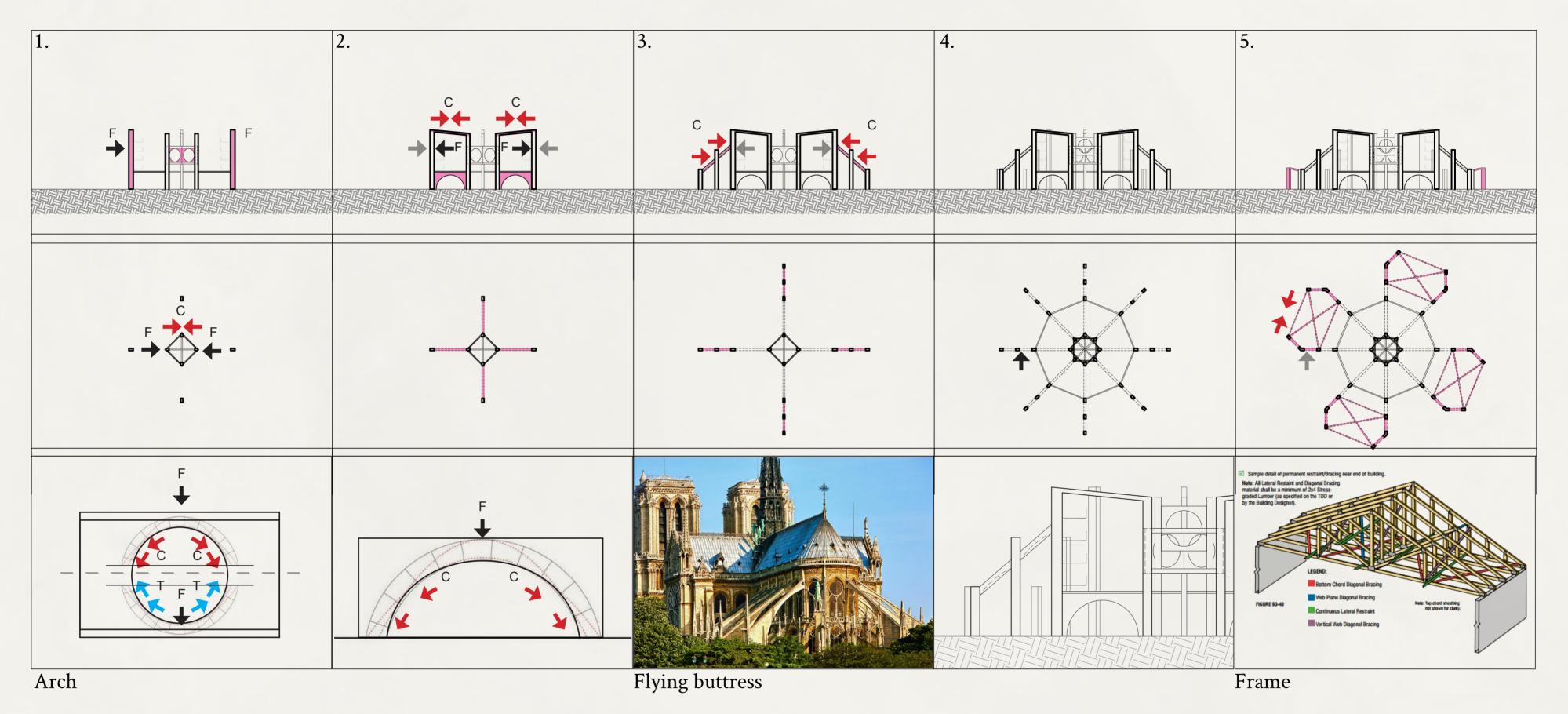


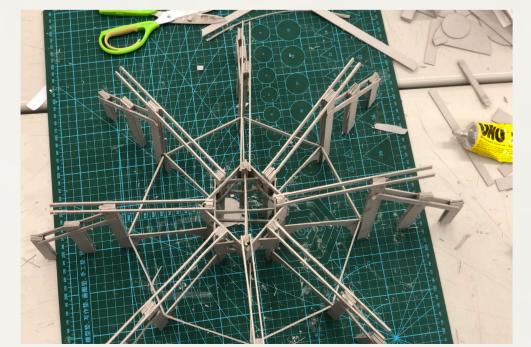


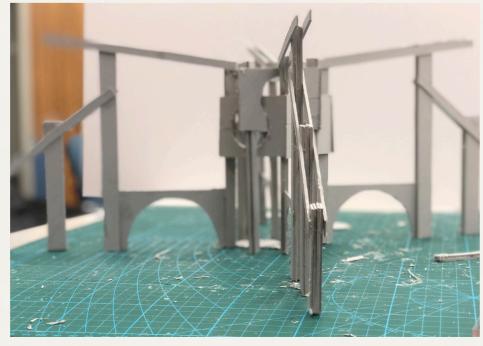


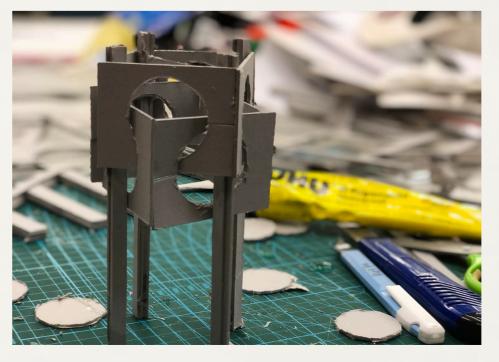


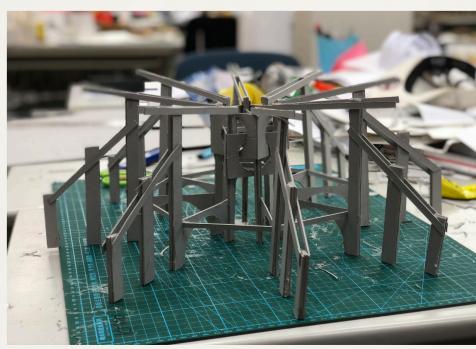














THINKING ASSEMBLY

