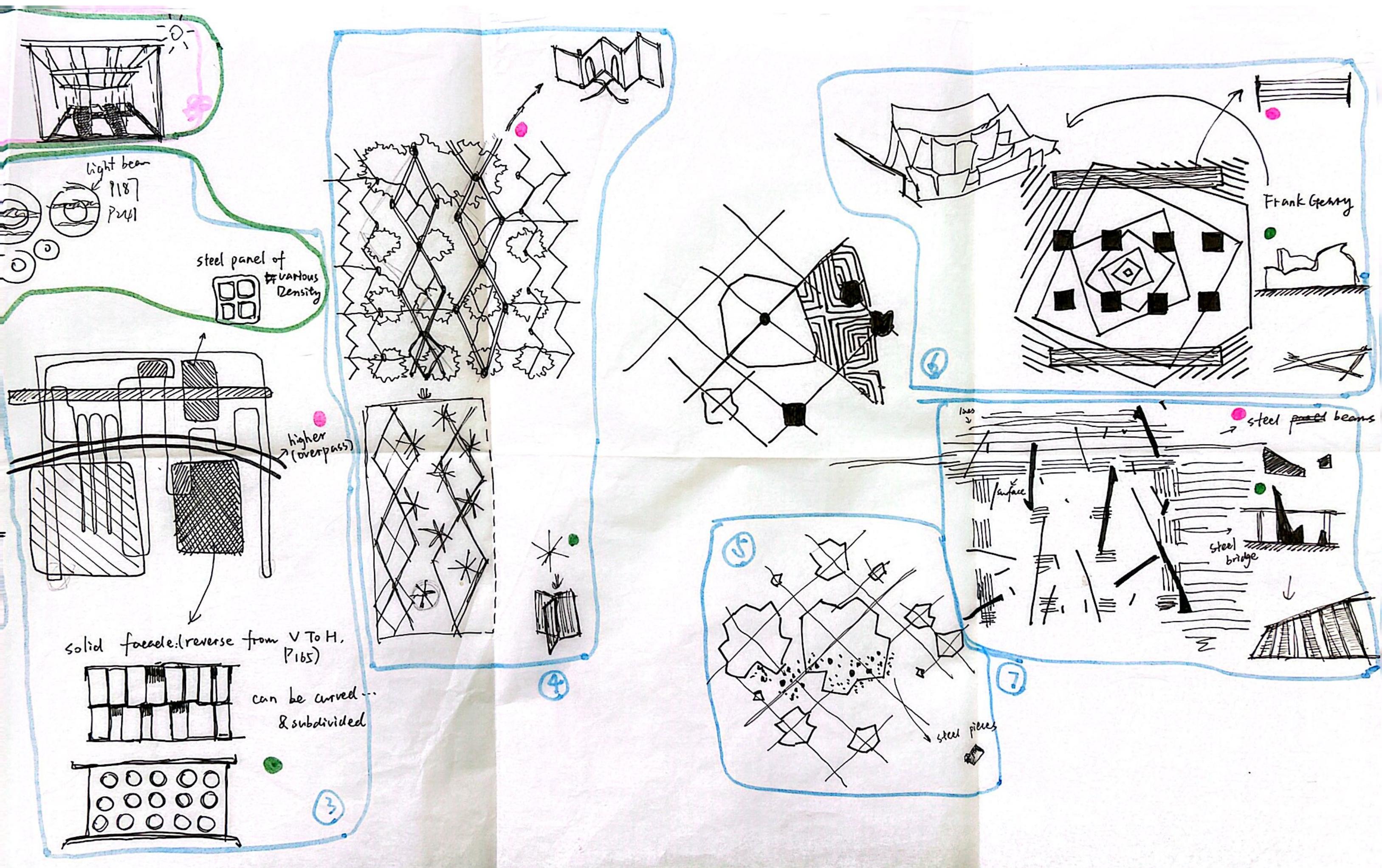
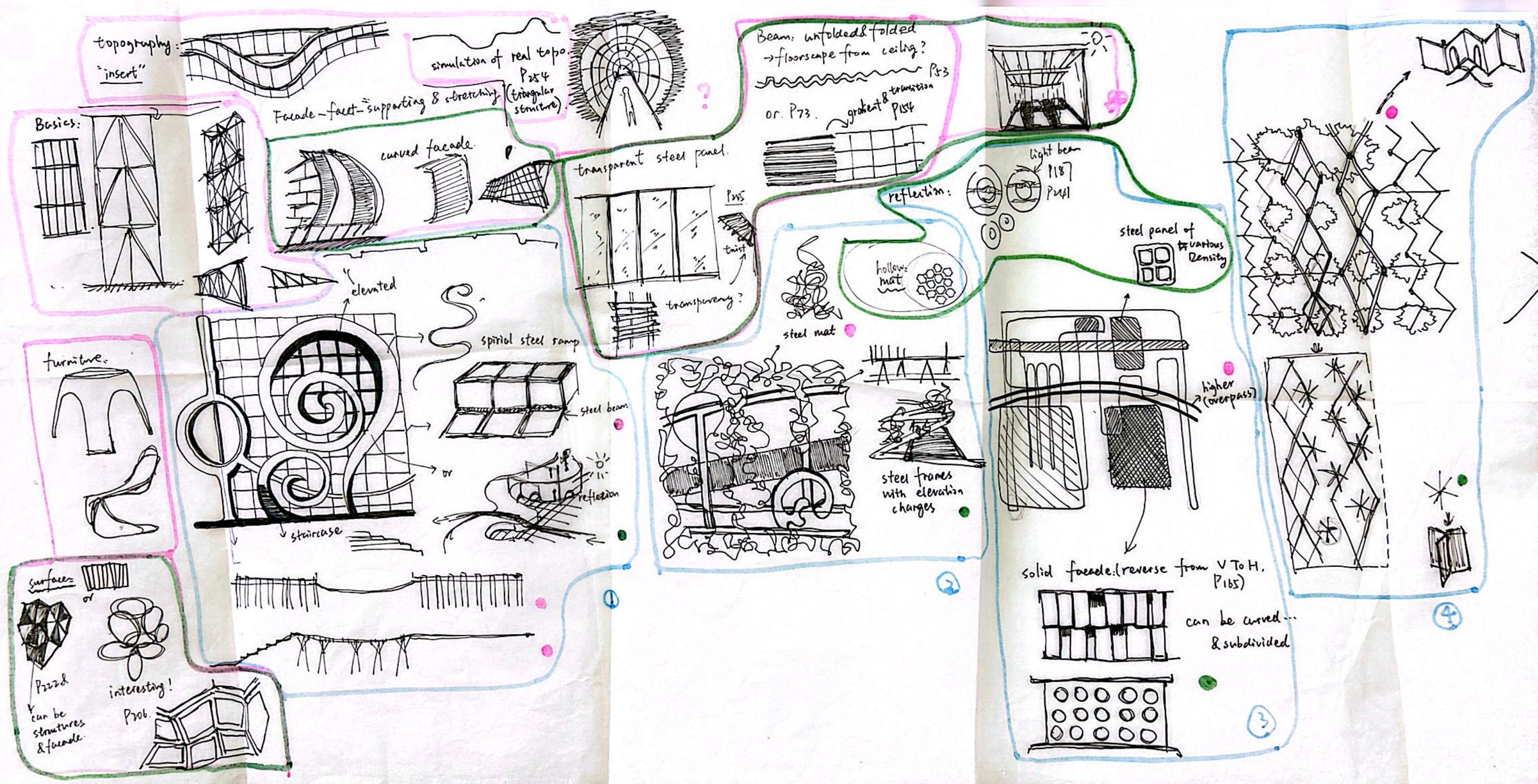
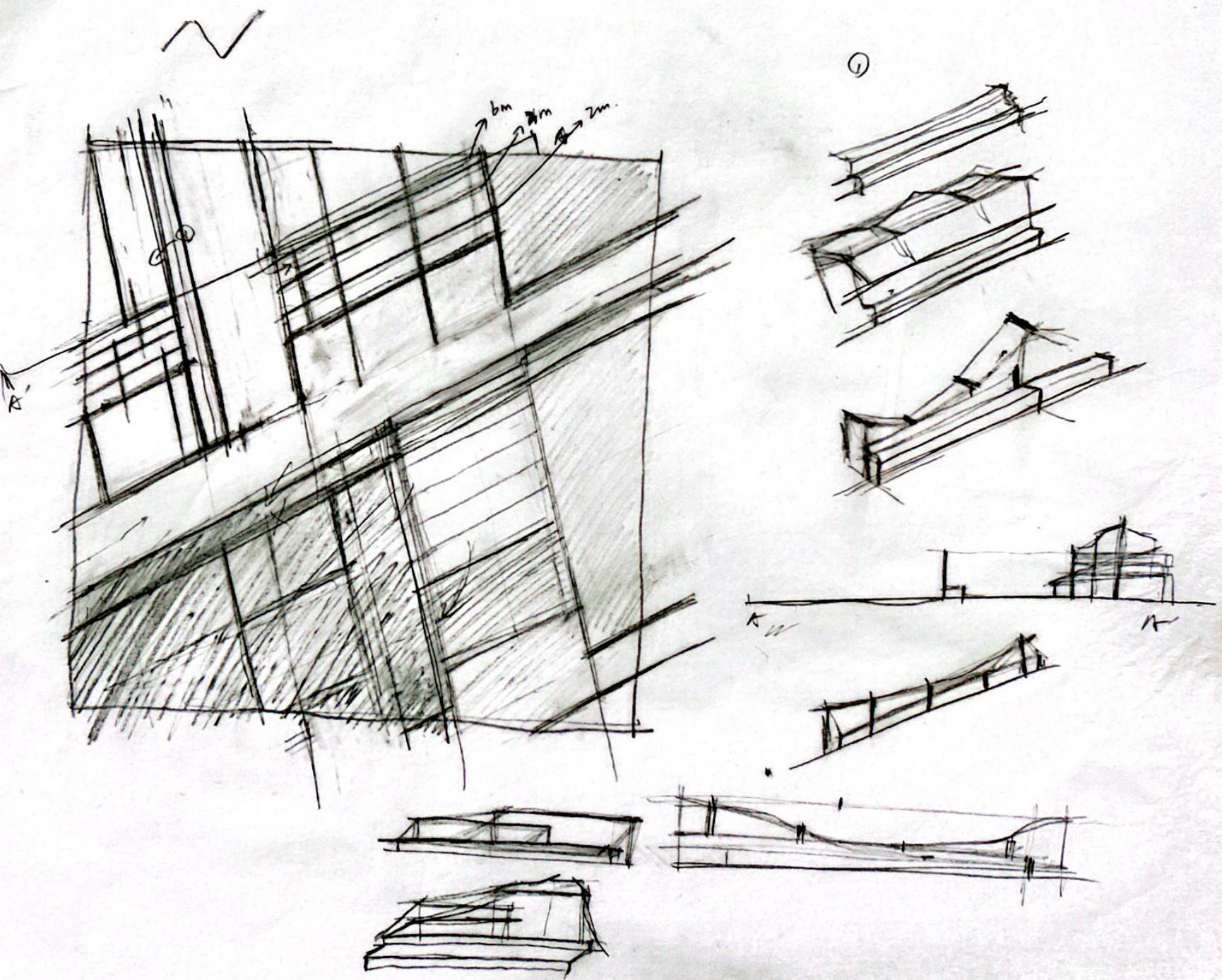
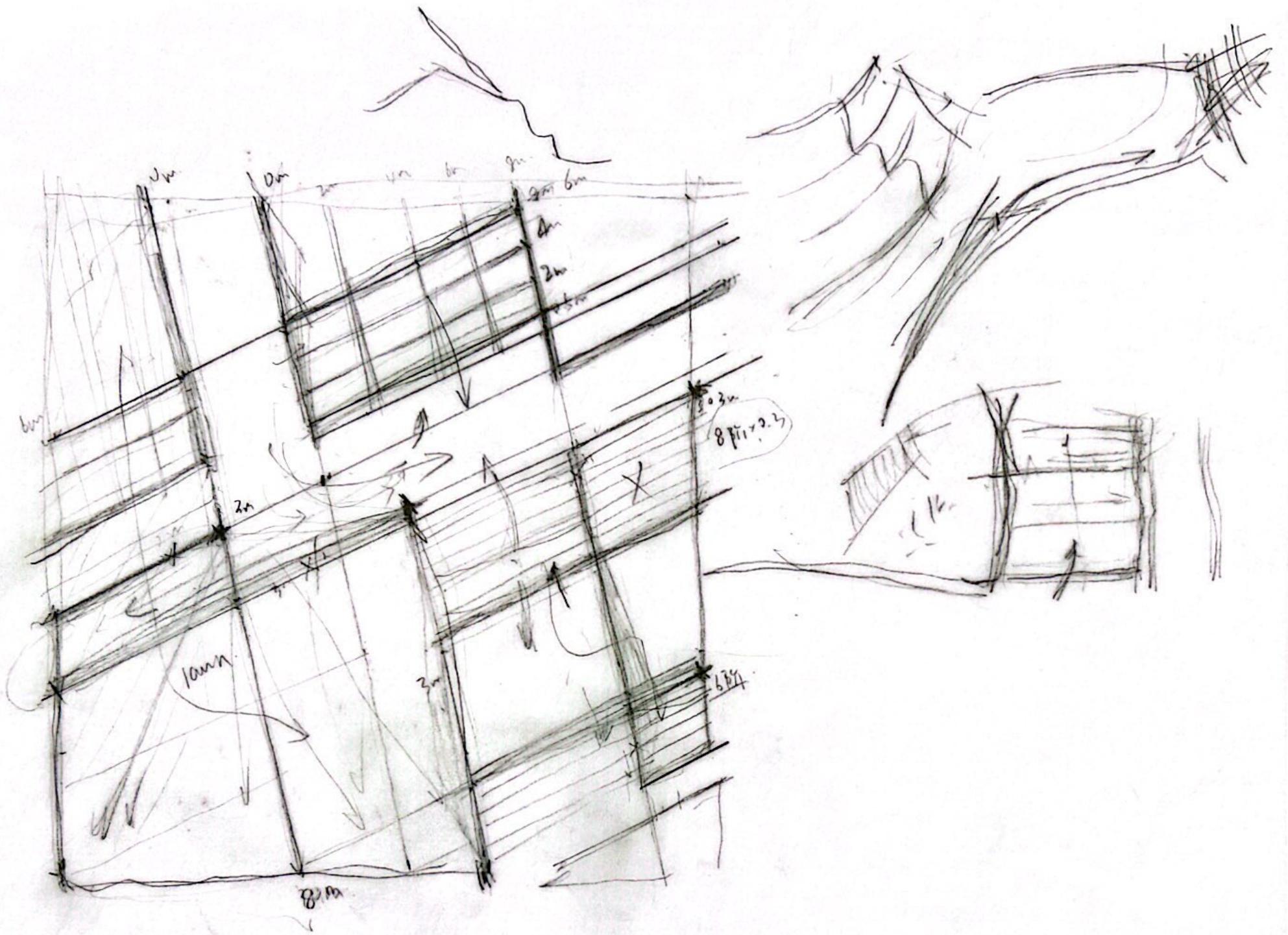


Week 1





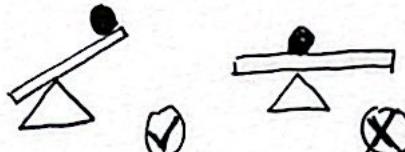
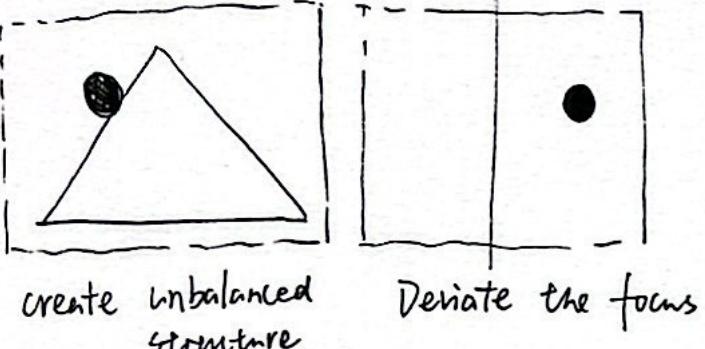




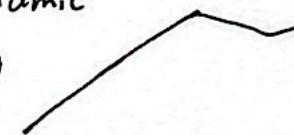
## positive

→ 反制性的冲突、矛盾的概念  
失衡的紧张感 → 静态/动态的平衡一般不会带给人紧张感 → 引起观众发掘画面信息的欲望 to explore more about an object)

- ① Break the symmetrical structure

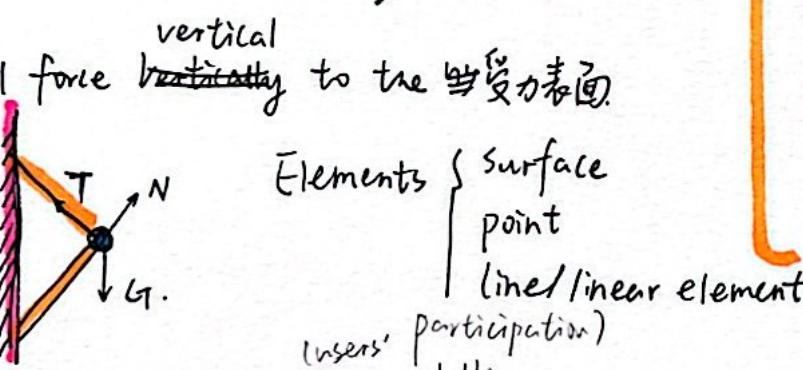
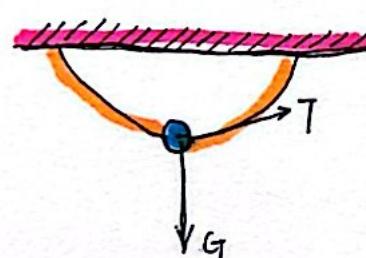


- ② Highlight the movement & Dynamic



- ③ Paradoxical concepts or dramatic conflicts / ~~contradiction~~ contradiction between people - environment / people - people
- [Tension in film-making]

- ④ Tension in physics: internal force ~~vertically~~ to the ~~受力表面~~



- Elements { surface point (line/linear elements.)  
Users' participation adjustable degree of

- ⑤ Psychology: stress, strains, changes in life events, conflicts between people & social groups, gloom, depression

→ stress **management**

## Negative

### TENSION ↔ PEACEFUL/BALANCED

controlled tension: we deliberately build up in order to push forward the excitement

Level of

losing

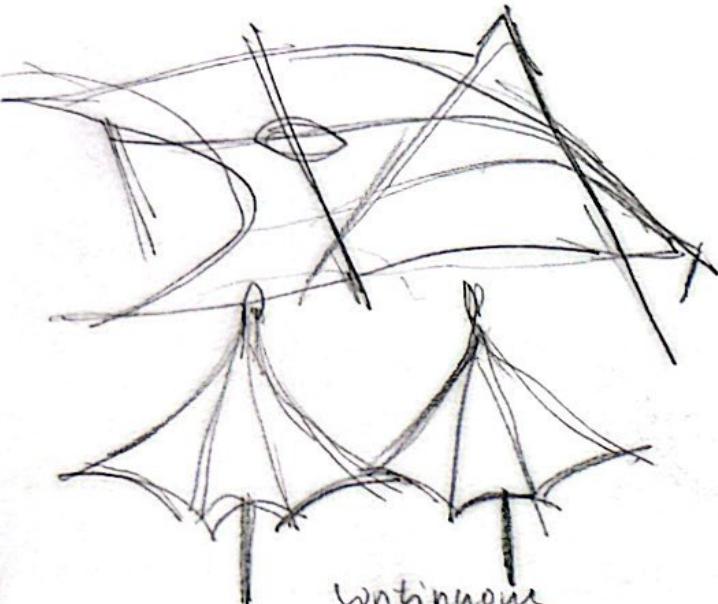
unconscious tension: we fall into ~~without~~ control, end up nowhere; People fall apart, holding their opinions, unwilling to make changes

adjustable tension: Steel (man-made; high tensile strength).

elements of "Tension in physics" → "insertion" of different form of materials [accidentally encounter]

Adjustable height, relationship between lines & surface

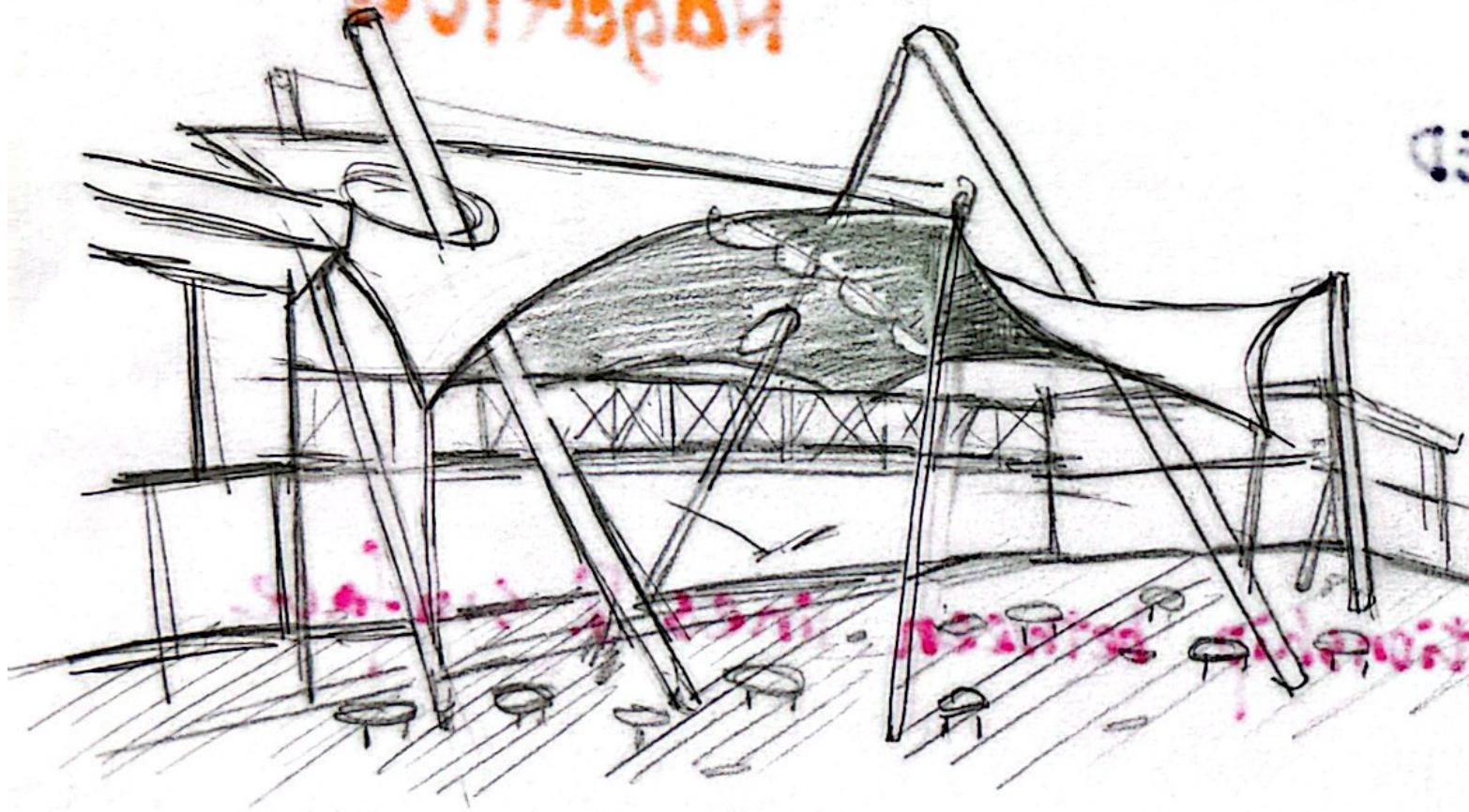
highly flexible fabric held under tension → stiffness in the surface



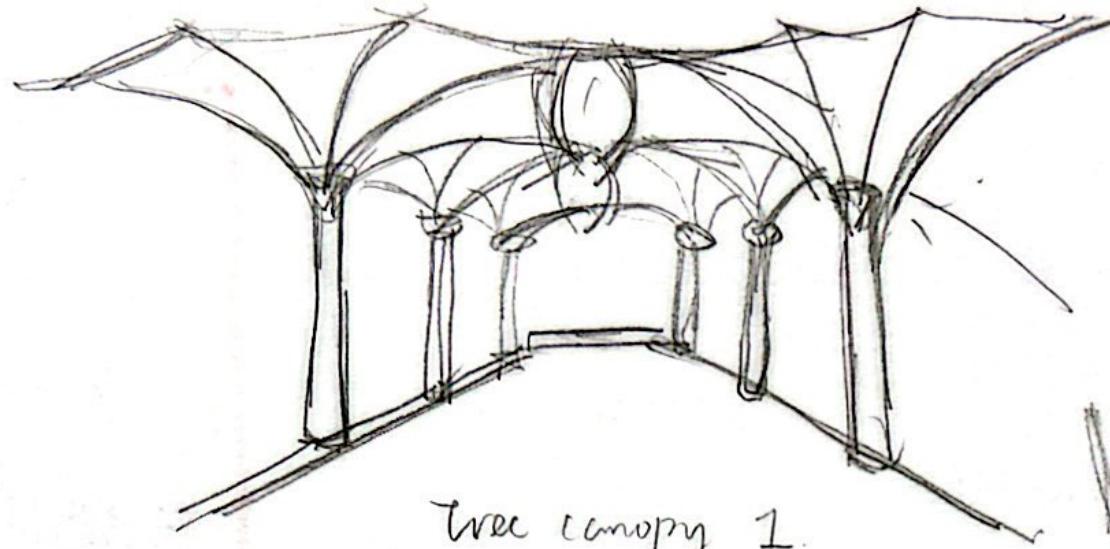
continuous  
tree canopies



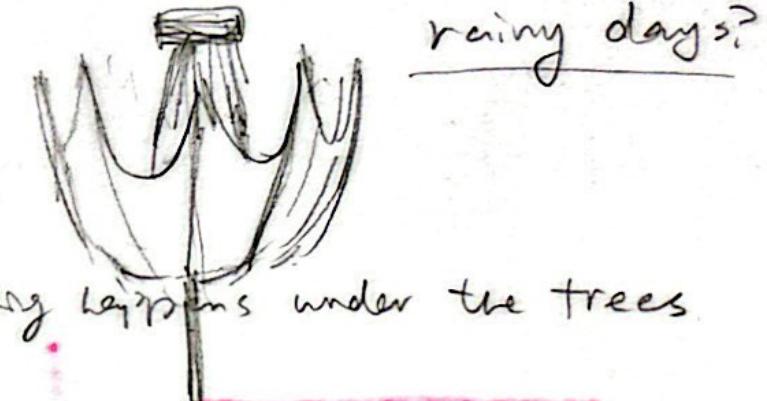
OUTDOOR



translucent surface & transparent surface



think about the natural process! Everything happens under the trees.  
contemporary & permanency

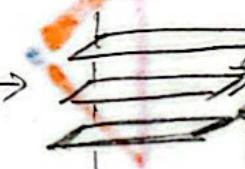


physical → physics  
meaning of tension

how climate/natural  
process influence tension?

rainy days?

transparency of steel →

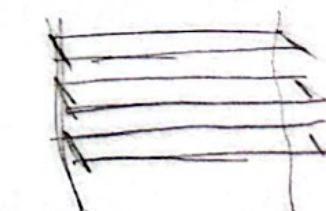
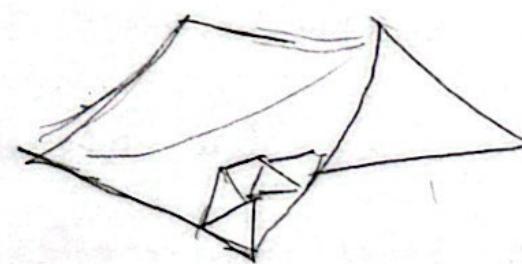


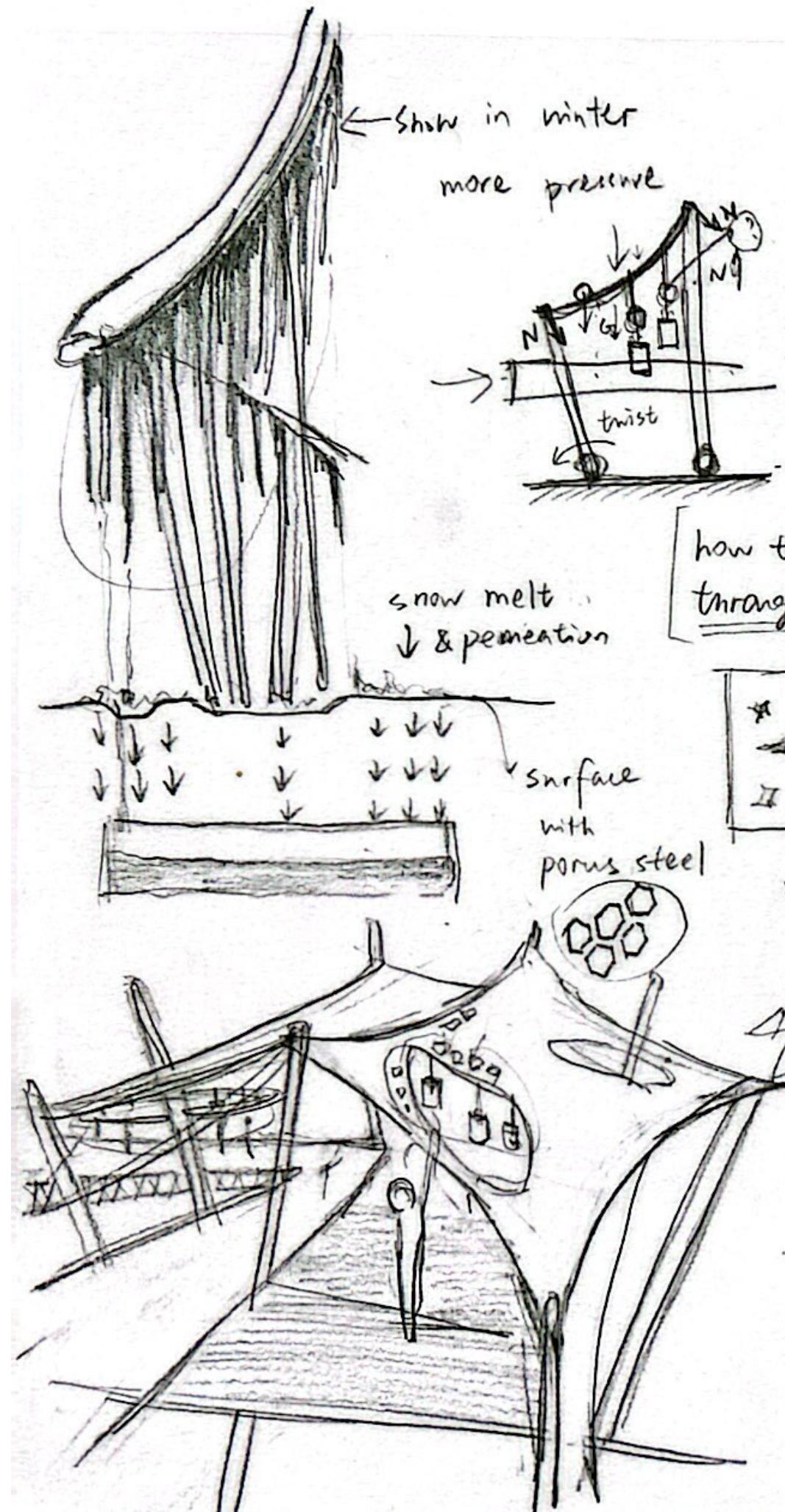
or



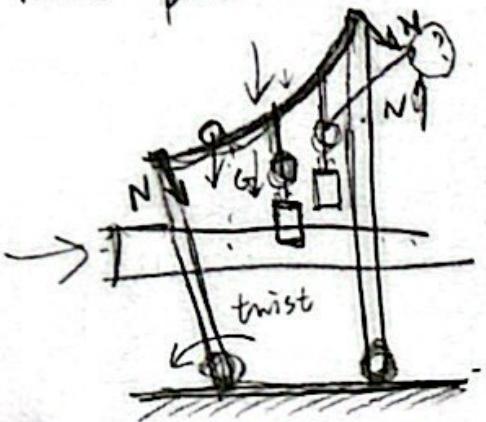
← kind of transparent

TRANSLUCENT SURFACE ← TRANSPARENT SURFACE



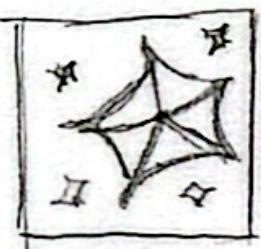


now in winter  
more pressure

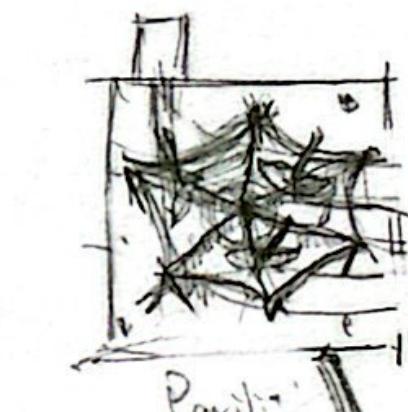
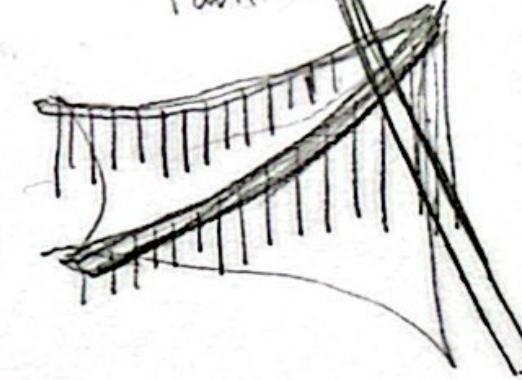
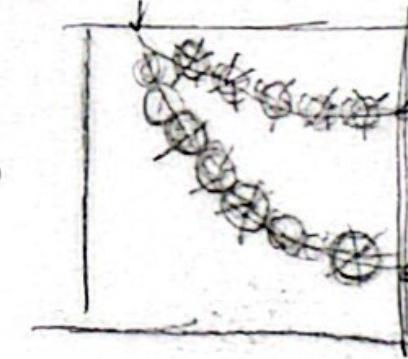


snow melt  
↓ & percolation

how to MANIFEST tension  
through seasonal change

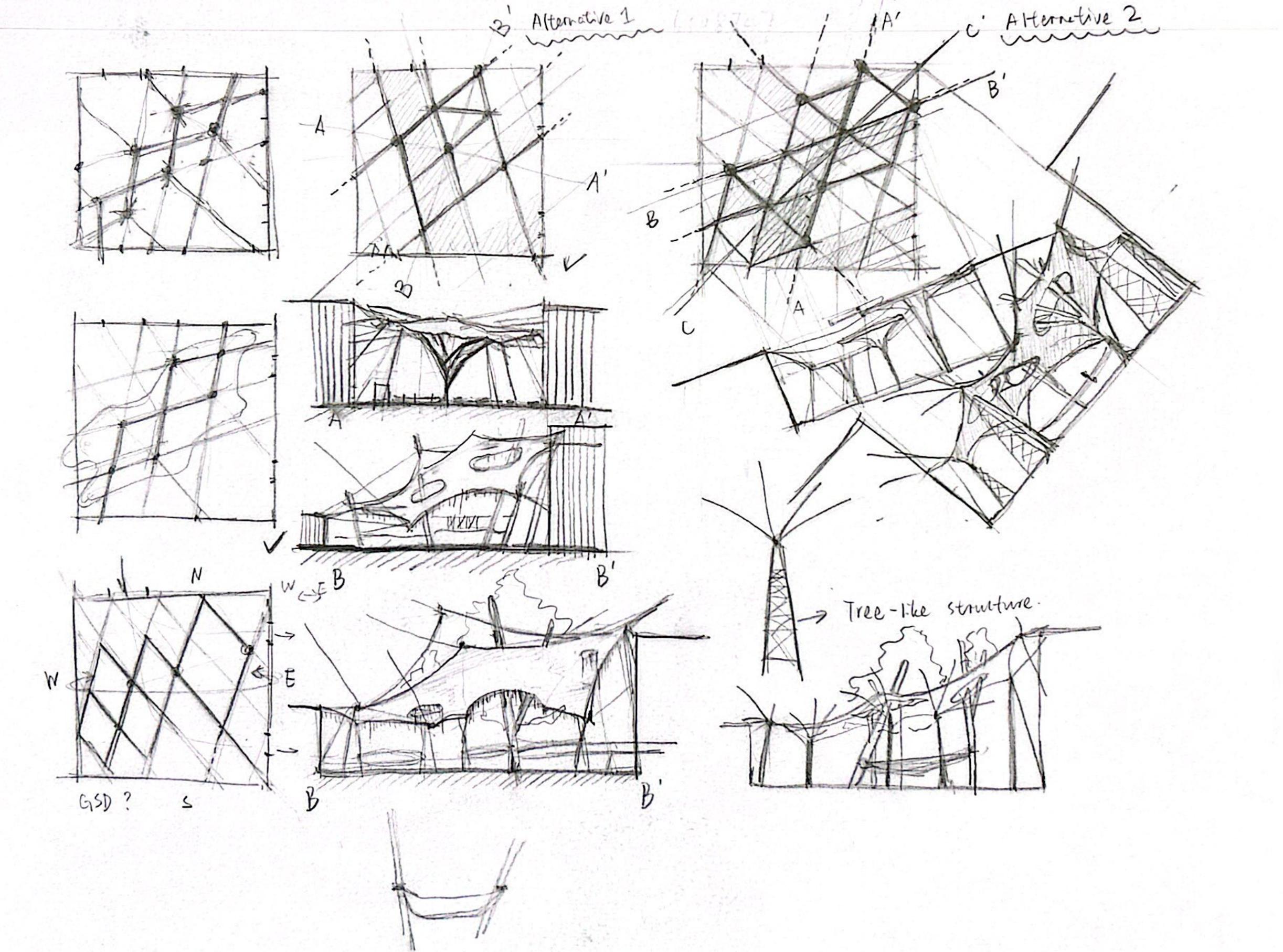


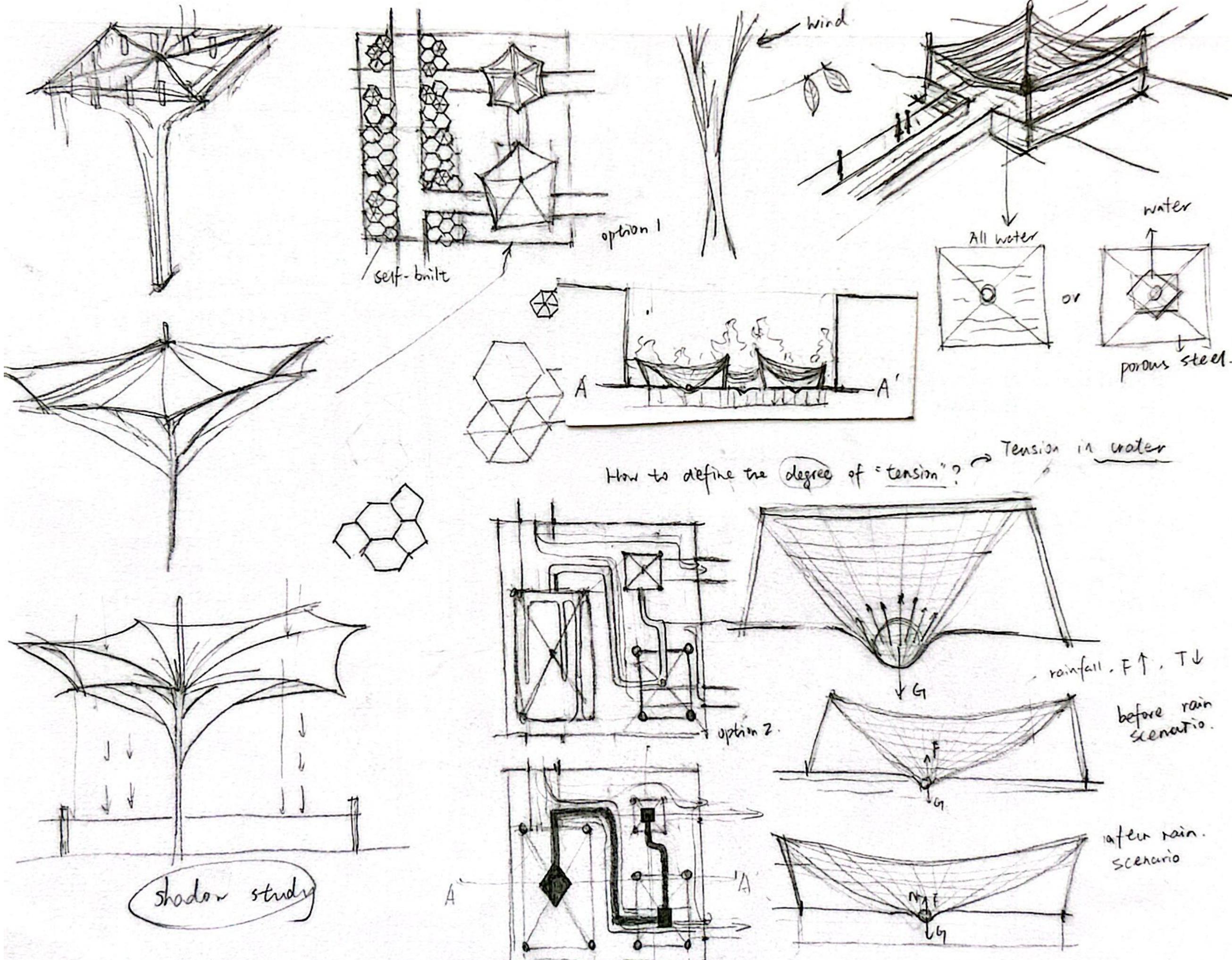
slight changes on roof?  
hanging<sup>↓</sup> objects?

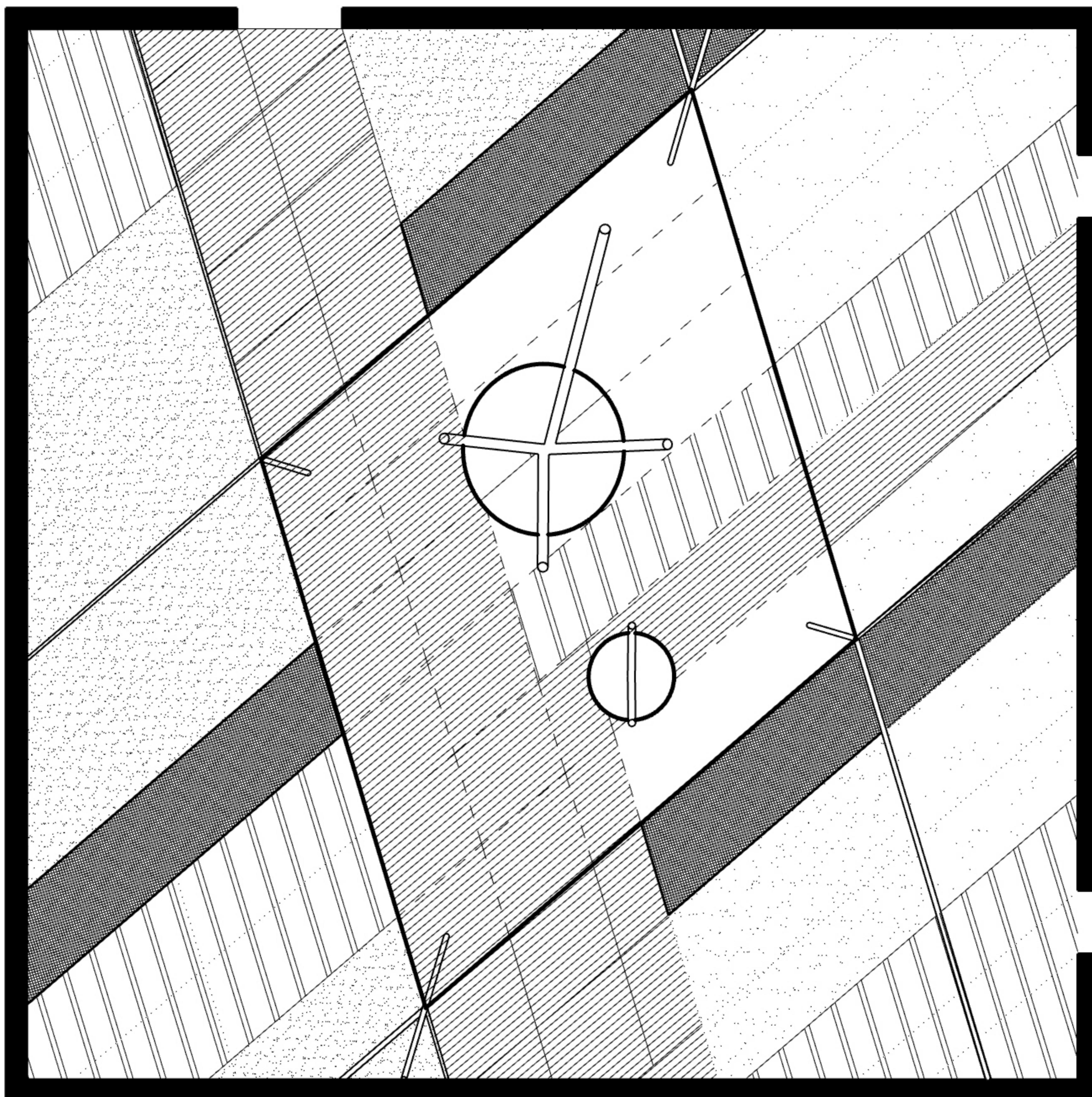


### Problems to be solved:

- ① where to put the canopy  
↳ climate
  - ② winter & summer behavior
  - ③ shadow profile
  - ④ Form of the canopy.



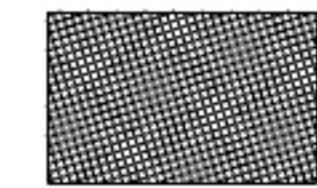




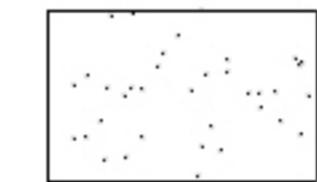
Pavement 1



Pavement 2

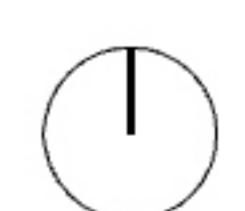


Water



Shrubs & Forest

ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"

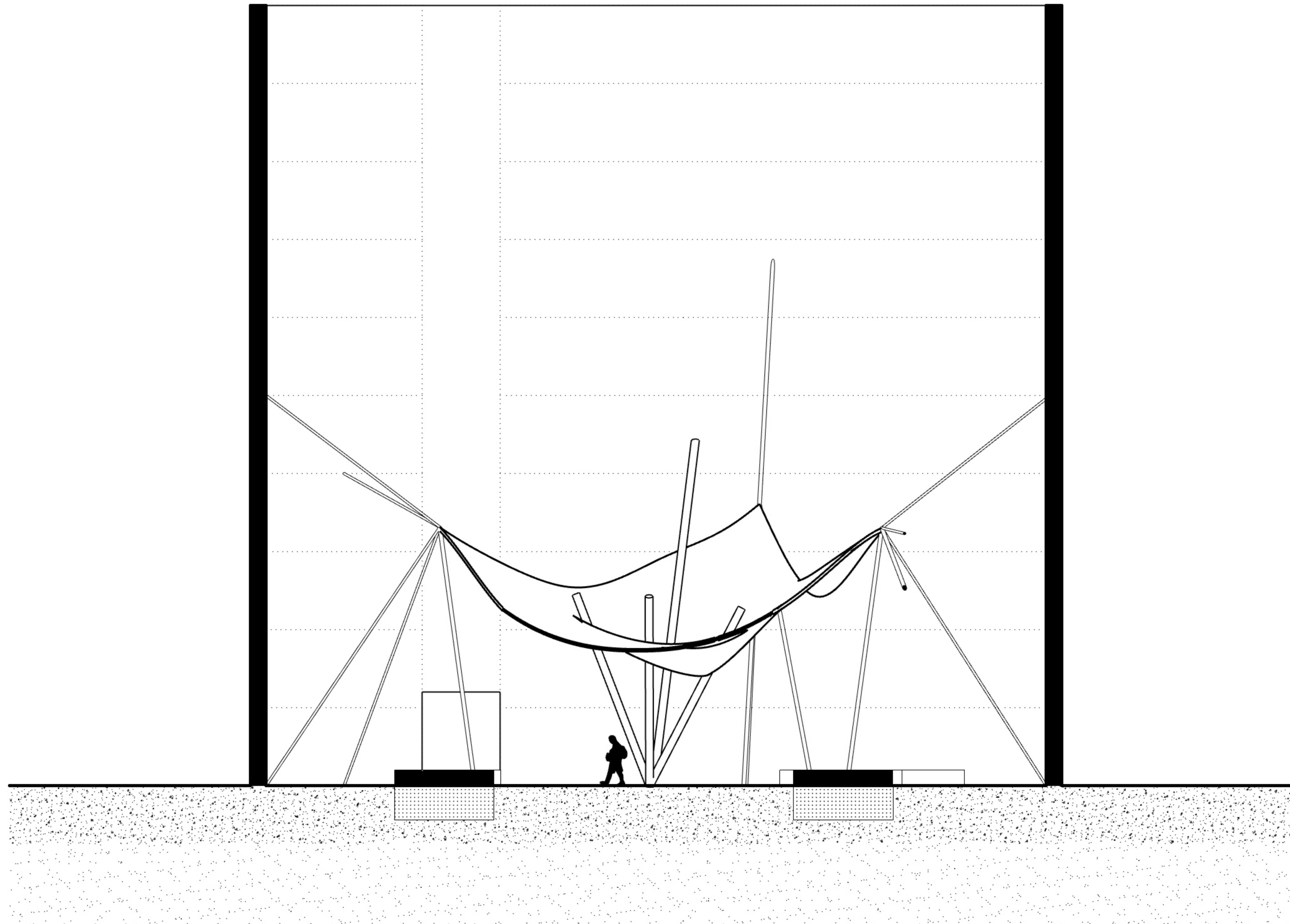


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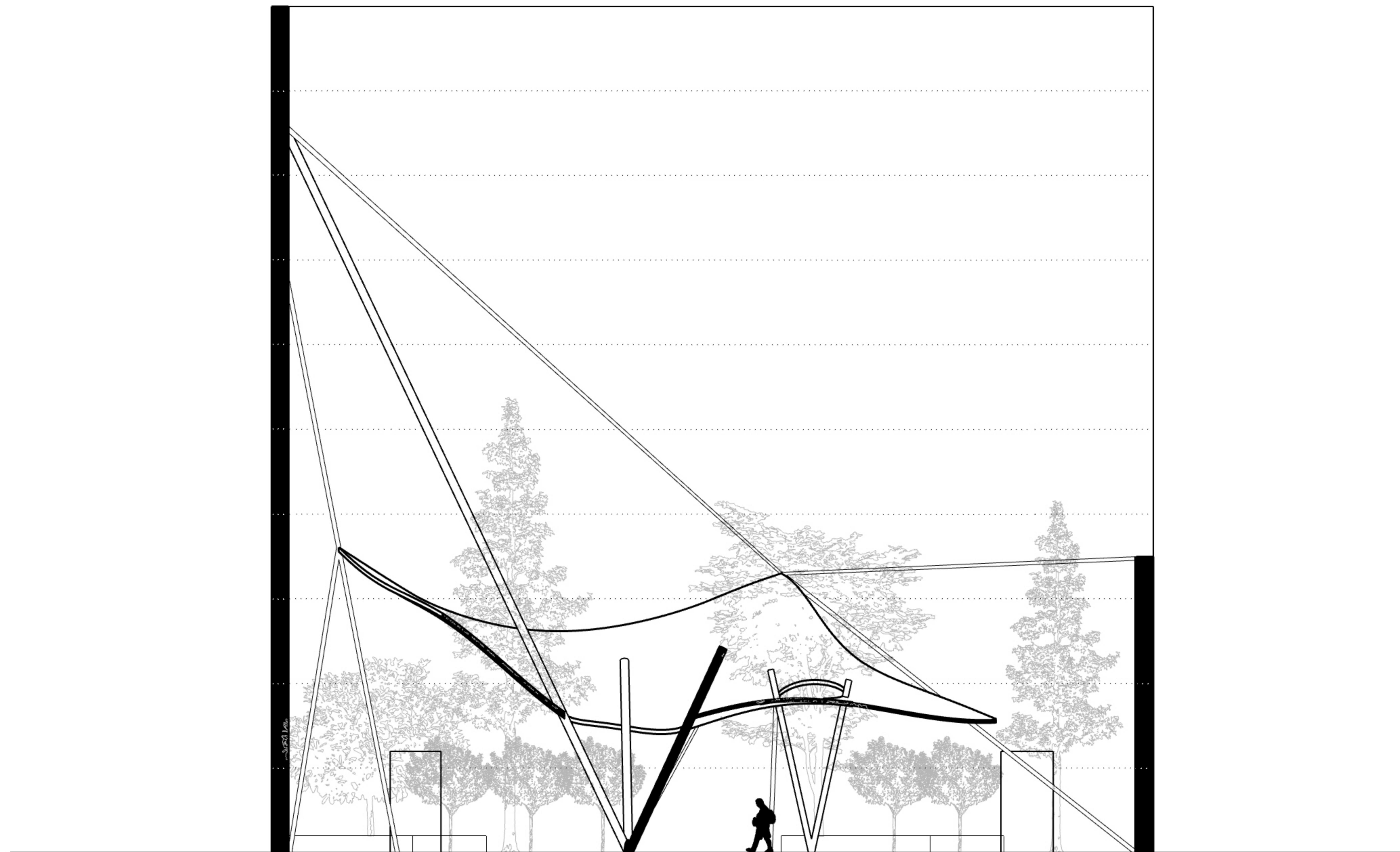
16

32



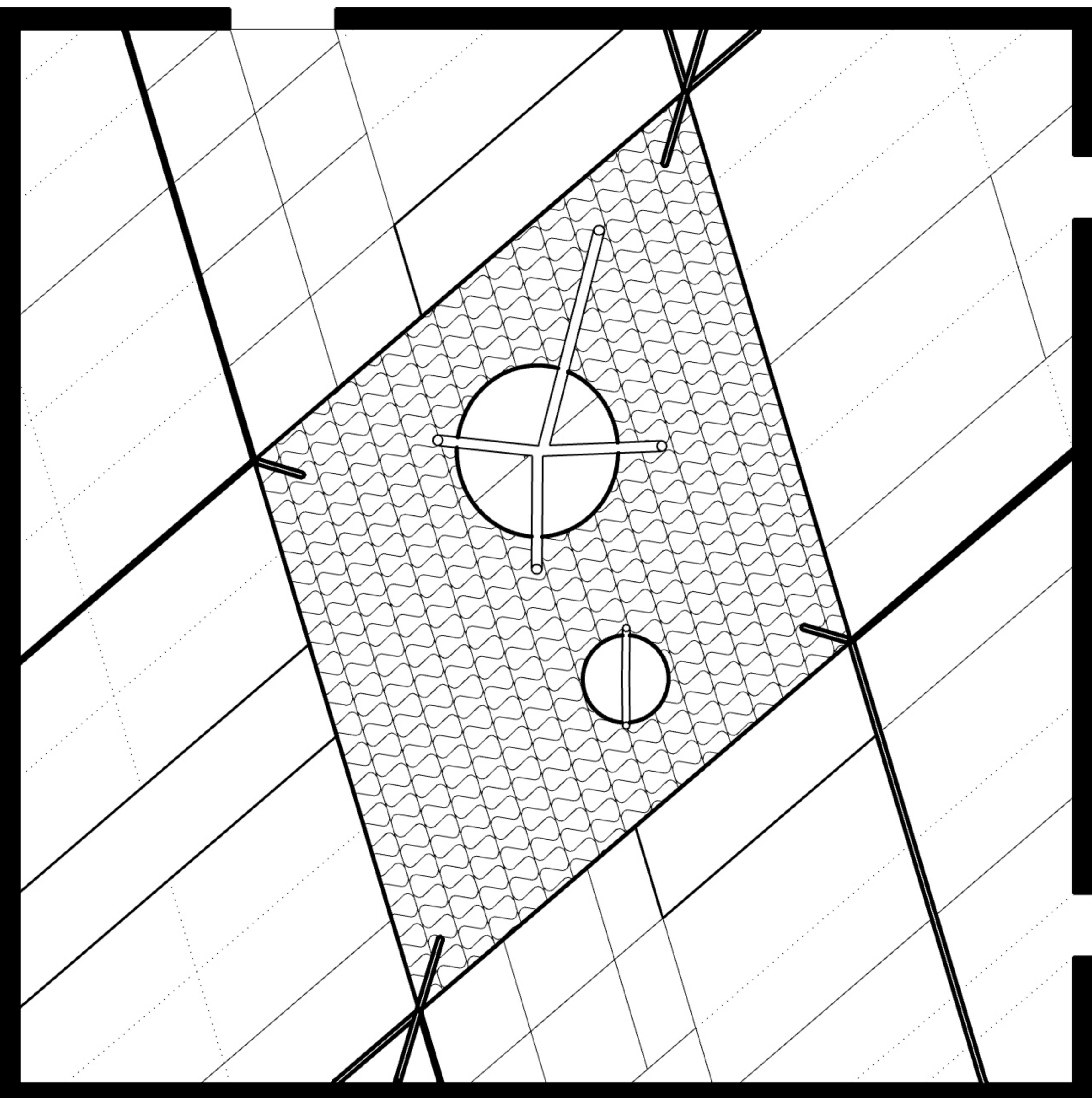
ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 8'-0"

0 4 8 16



ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 8'-0"

0 4 8 16



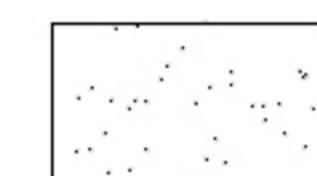
Pavement 1



Pavement 2



Water



Shrubs & Forest

ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"

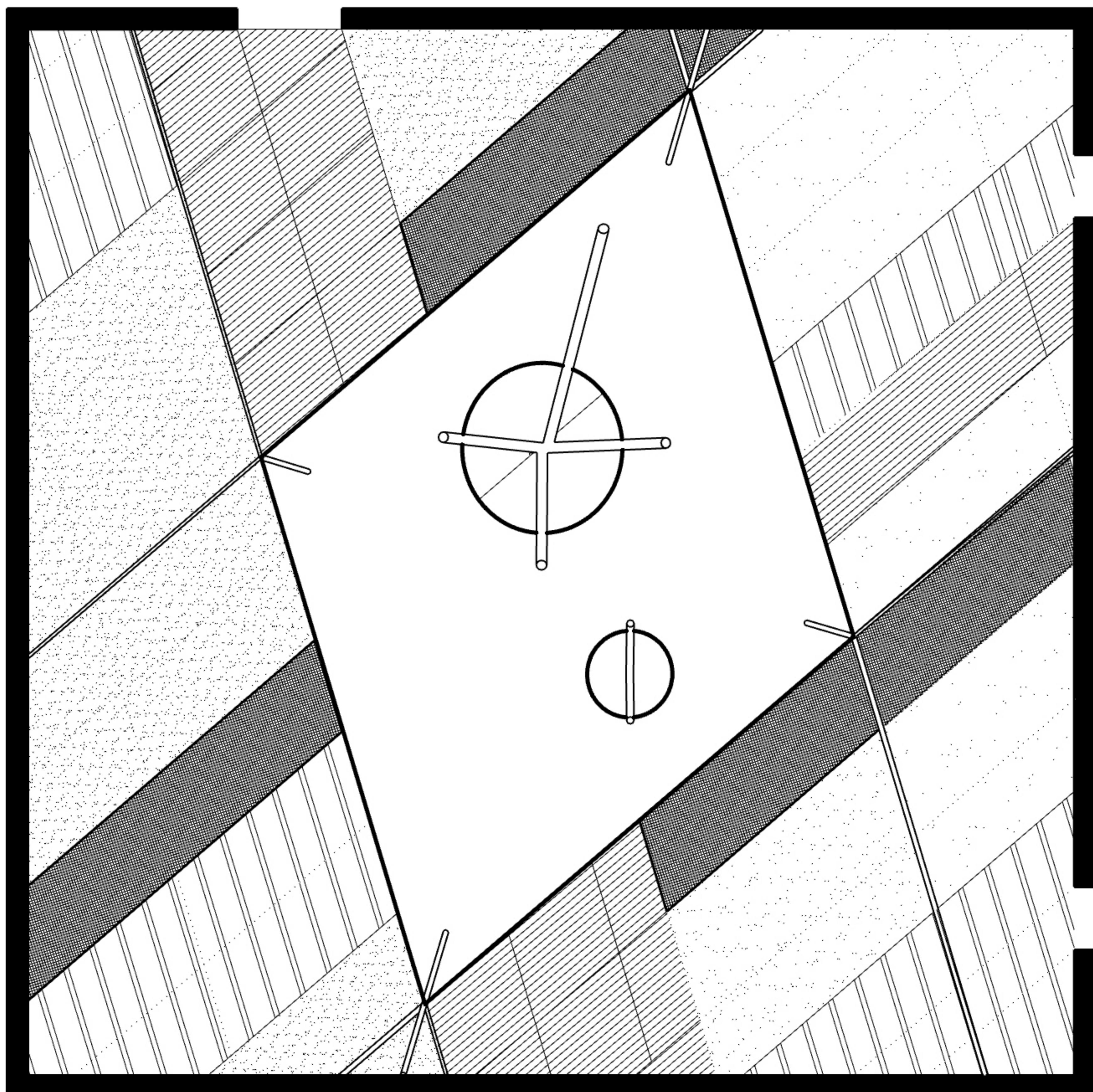


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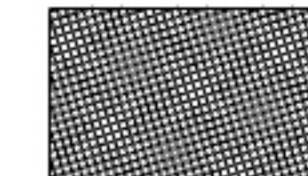
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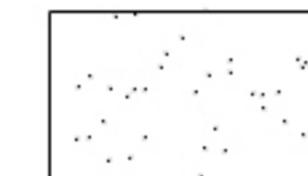
Pavement 1



Pavement 2



Water



Shrubs & Forest

ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"

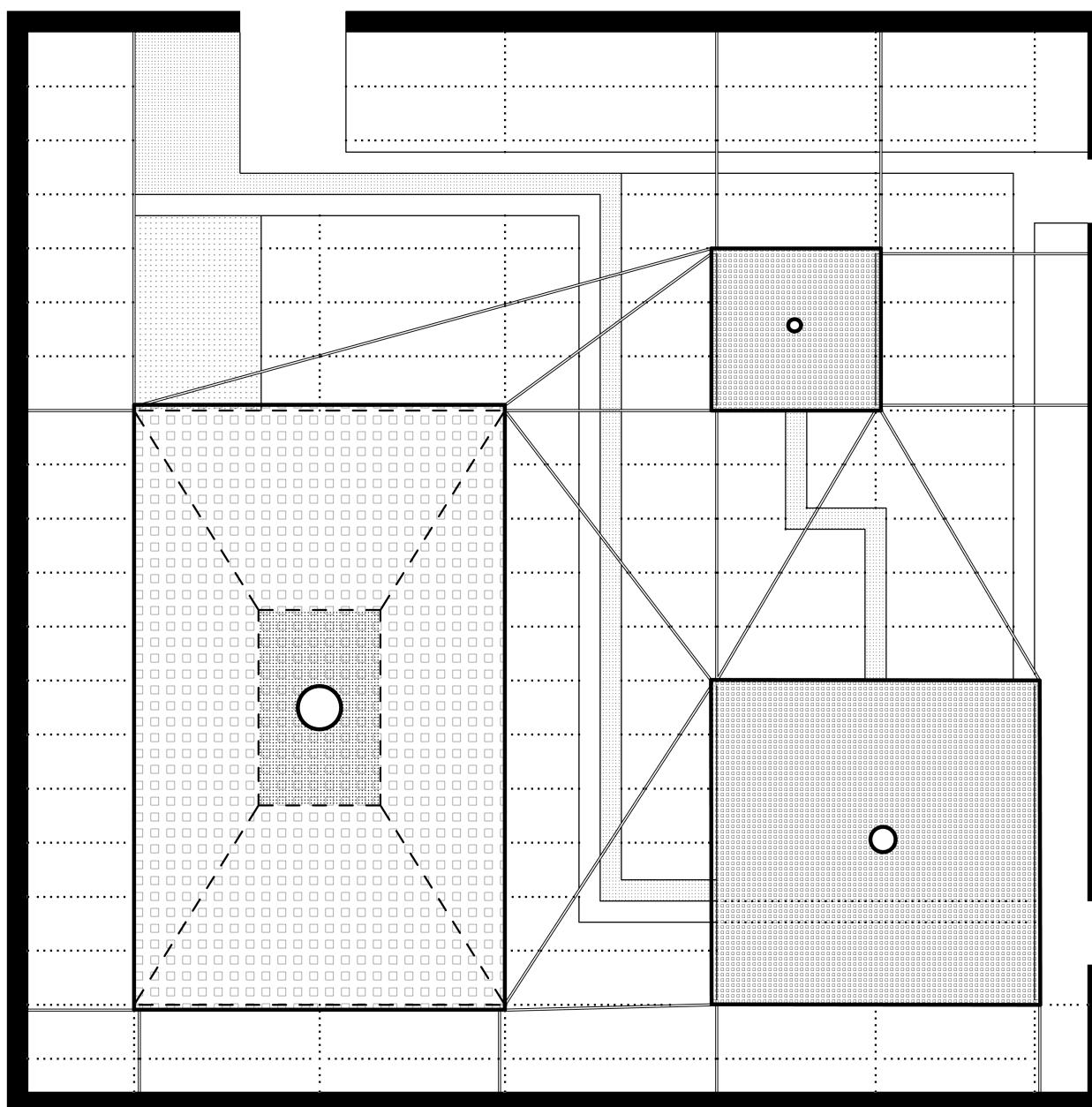


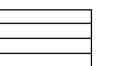
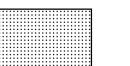
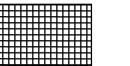
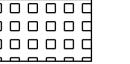
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16

32



-  Hard surface
-  Soft surface
-  Water
-  Steel mesh
-  Porous steel panel

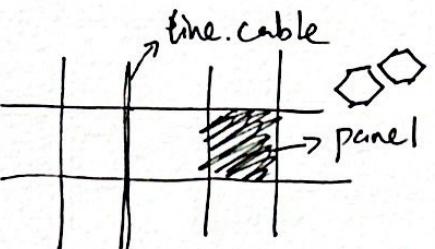
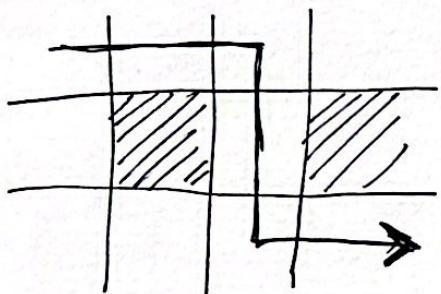
ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"



Week 2

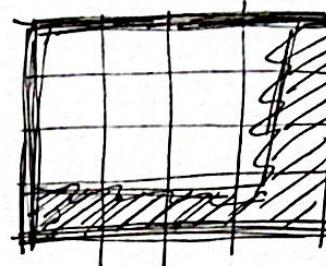
First of all, write the 200-word essay, Why Steel?

① Decide the plan layout (grid system)



explore the space by design  
"on the ground"

② Sunpath analysis. → Decide where to put public activities (climate / aesthetic)

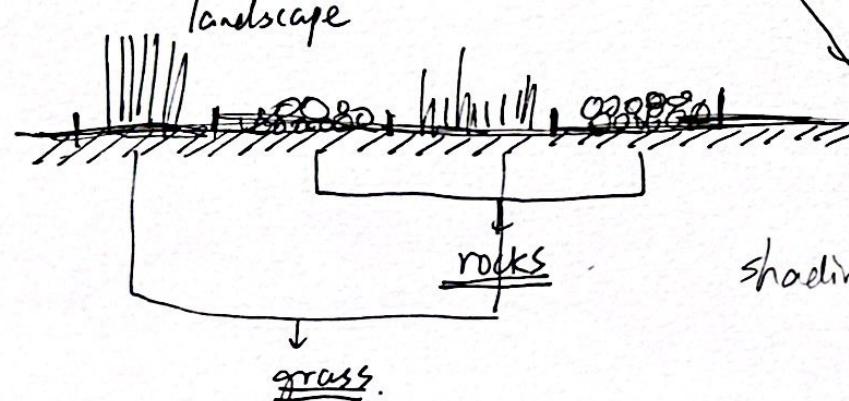


"sun command"

Steel as shading elements

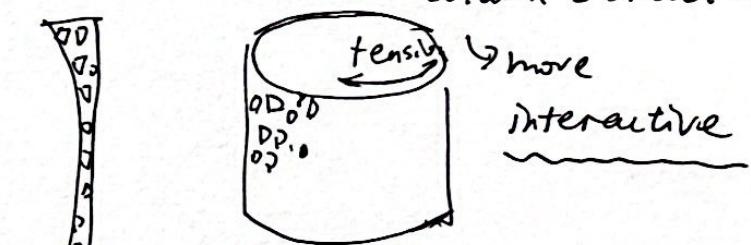
③ Research on steel-made furniture: Steel as separation elements

"Corten steel" - edge conditions to divide species



also water features

species need sun  
specials  
people need shade  
environment (sunpath)  
↓ decide  
people's movement  
plant's movement  
water? evaporation



④ (Vertical elements.) → replace column structure  
more interactive

"Command's

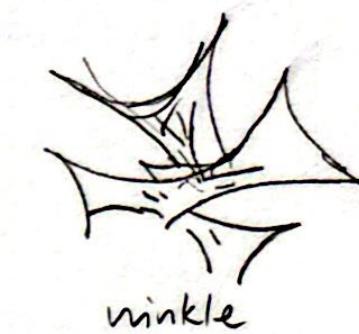
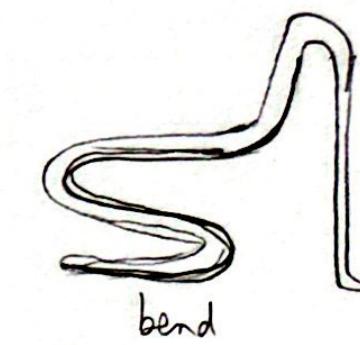
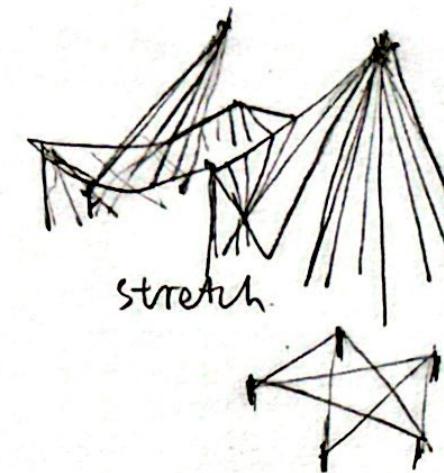
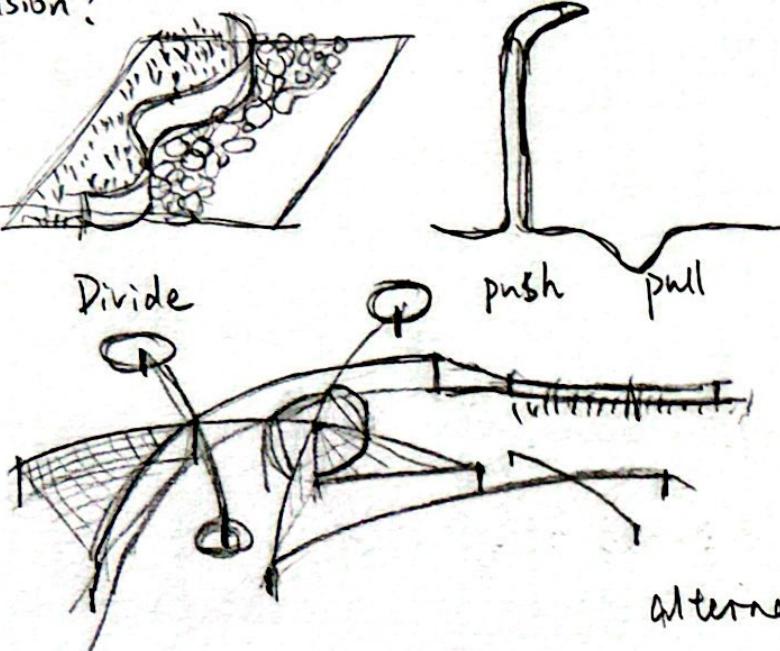
Research on ~~sun~~ Command design.

Richard Serra.

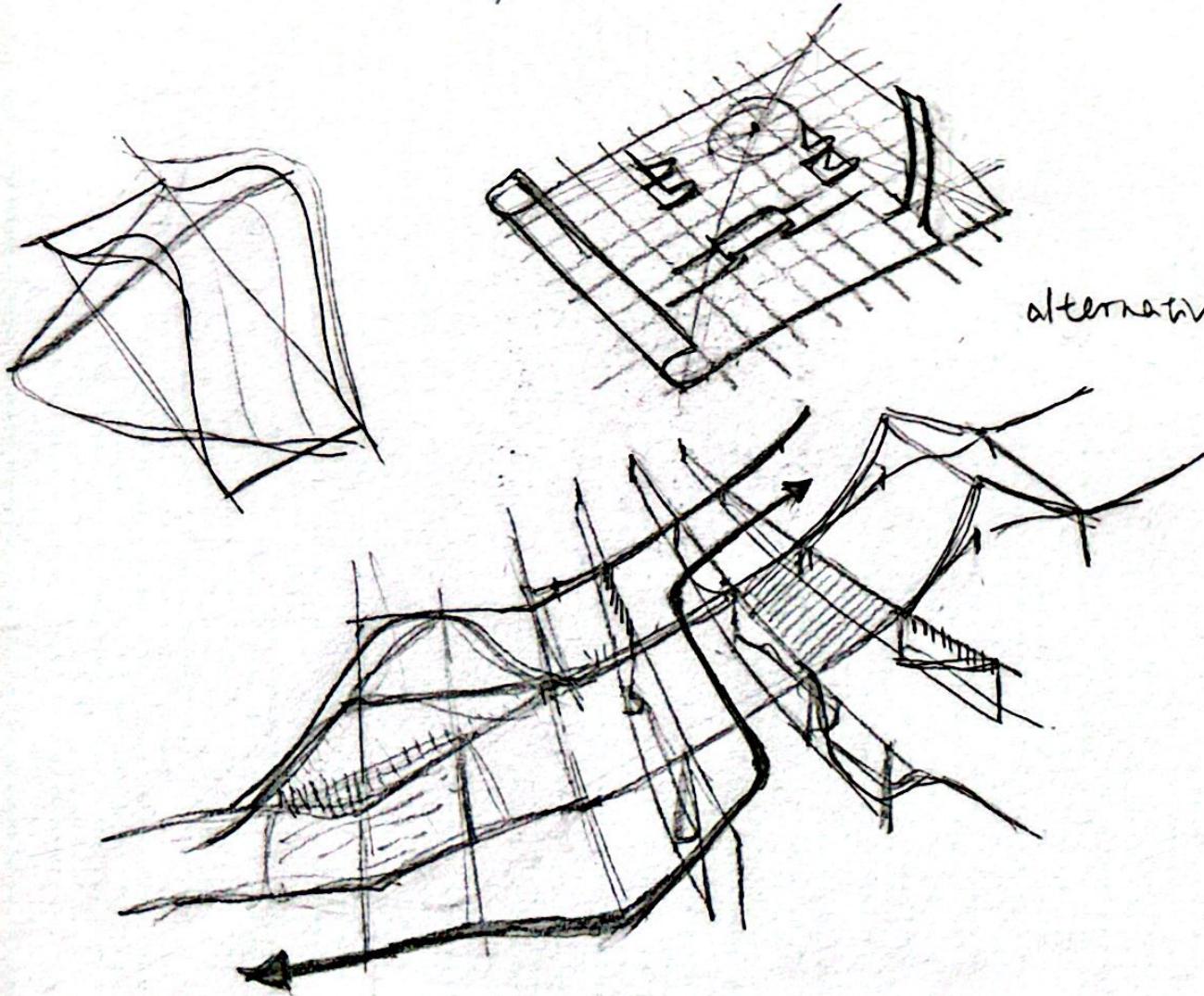
Steel, why steel  
climate

Steel as the shading infrastructure (flexible to be bend & stretch.)  
steel as interactive stimulus (furniture, benches) (children's play)  
Steel as edge conditions (stable, anti-erosive). → material, property  
divide, pull, push, stretch, bend, wrinkle, perforate  
enduring.

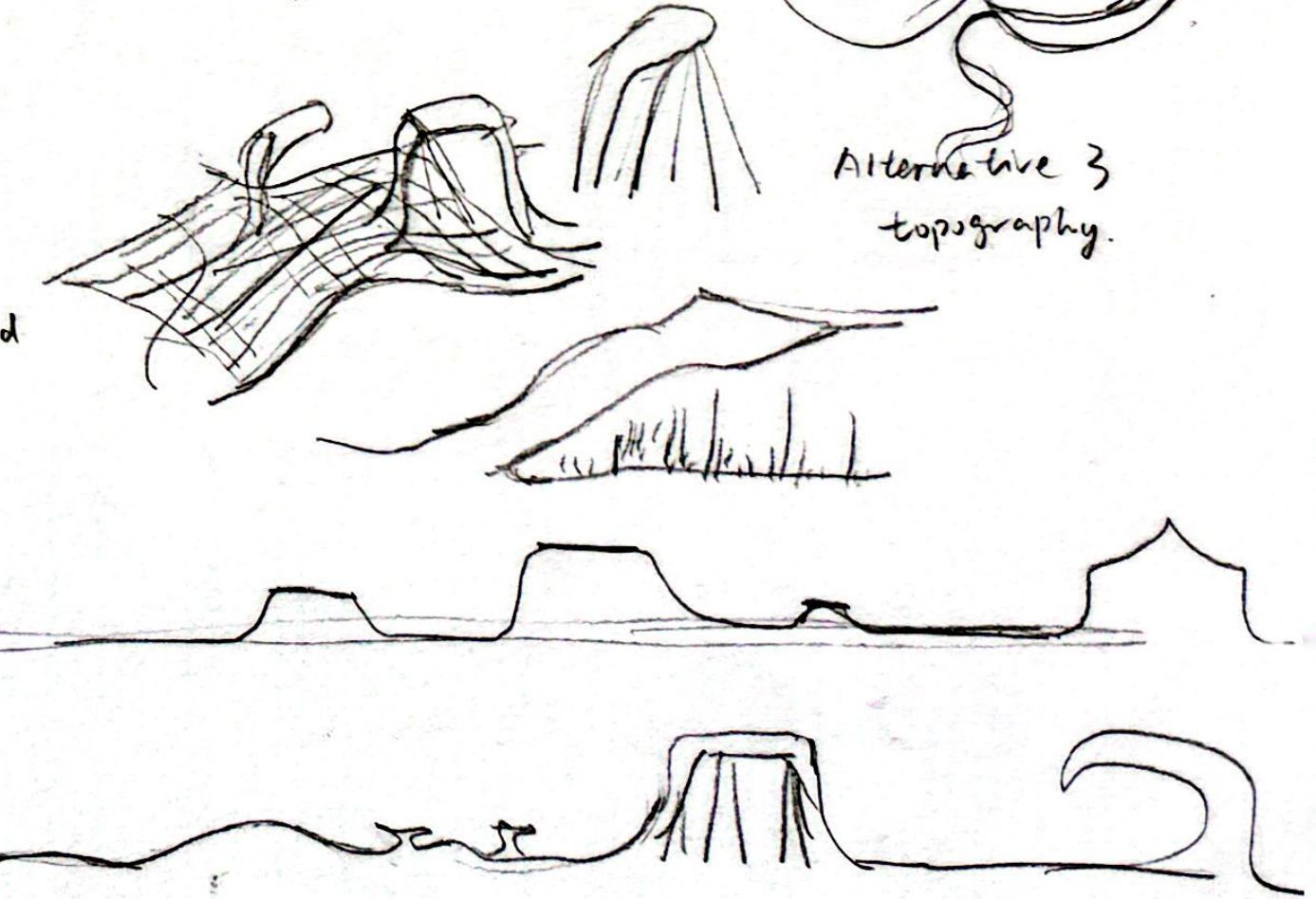
What is tension?



alternative 1. no grid whole surface as a steel mesh



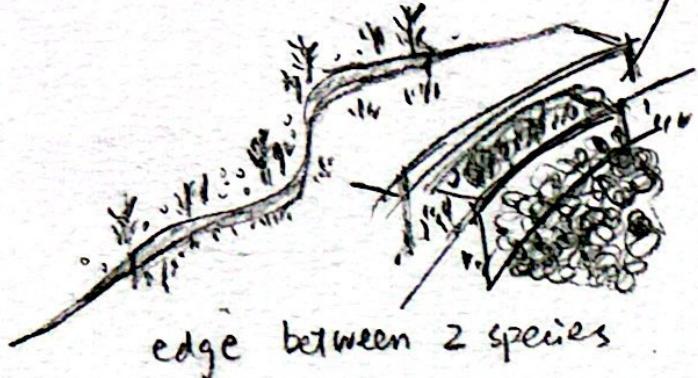
alternative 2. grid



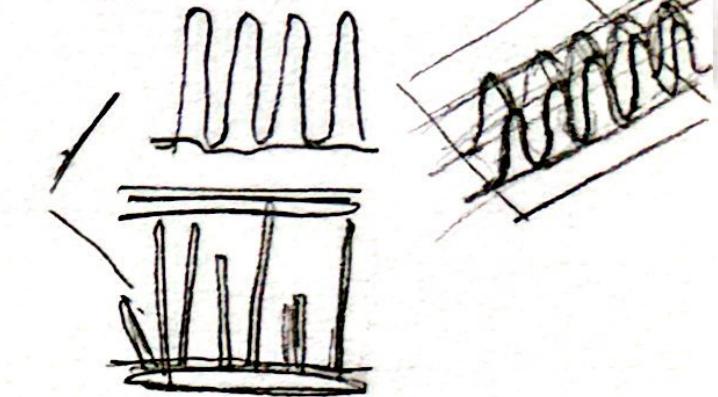
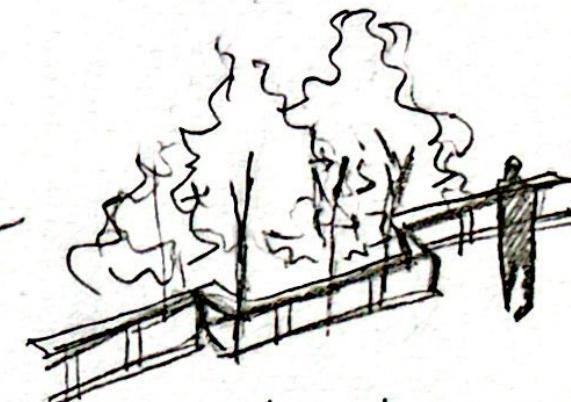
Alternative 3  
topography.

alternative 1: steel as division/separation components (separator), vertical

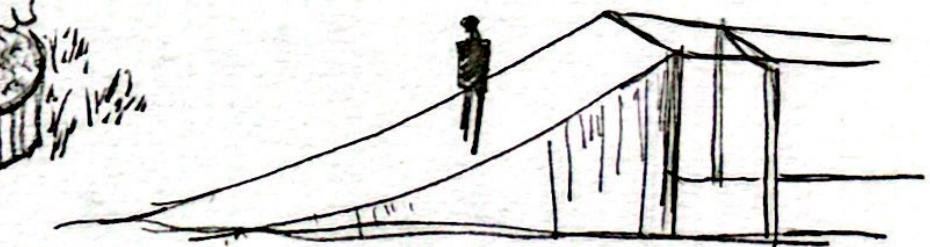
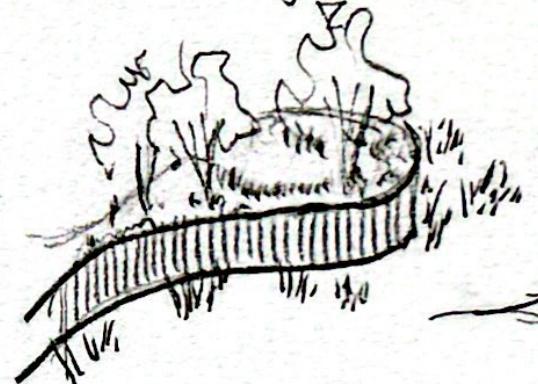
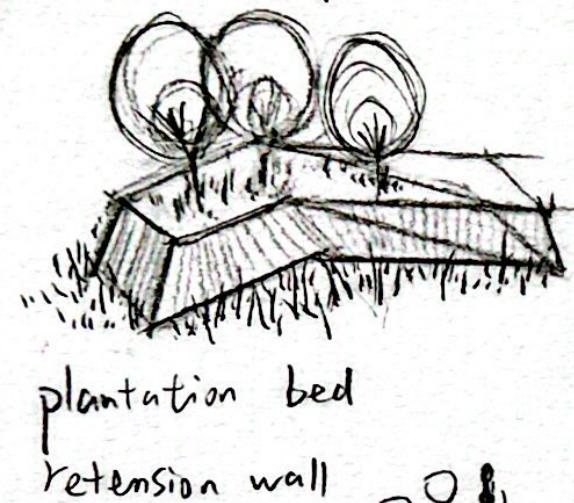
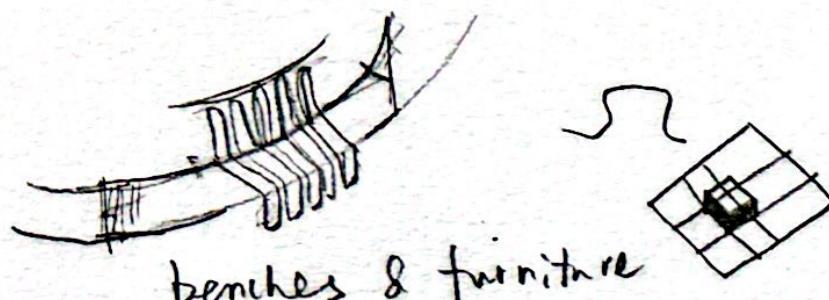
(1) Low (0-20 inch)



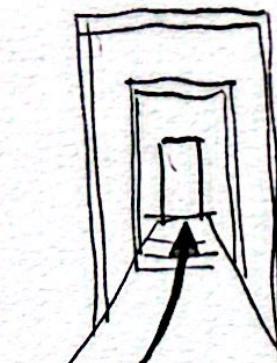
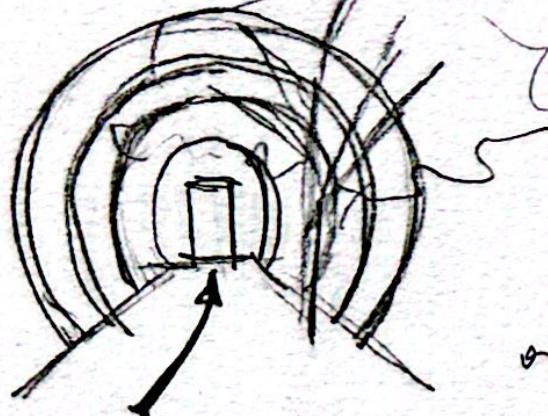
staircase.



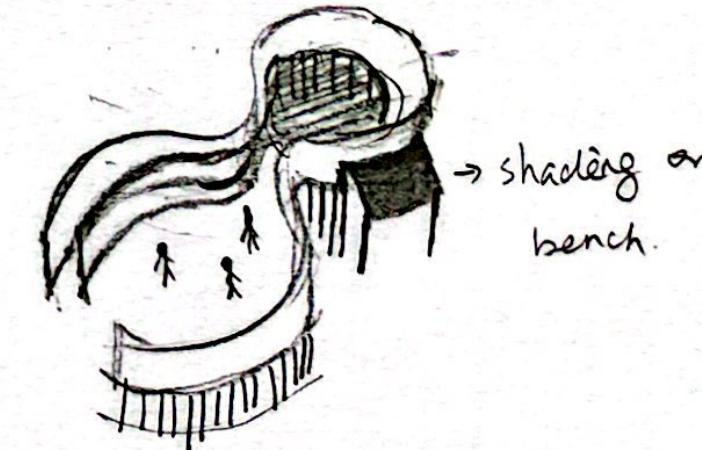
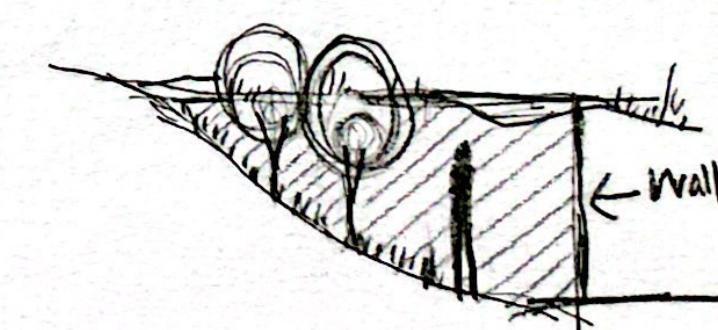
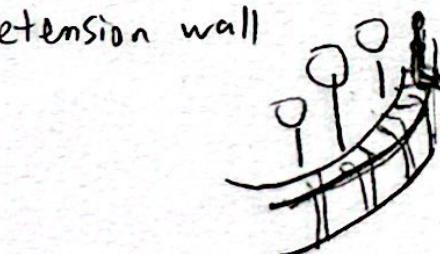
(2) Medium (20 inch - 10 feet).



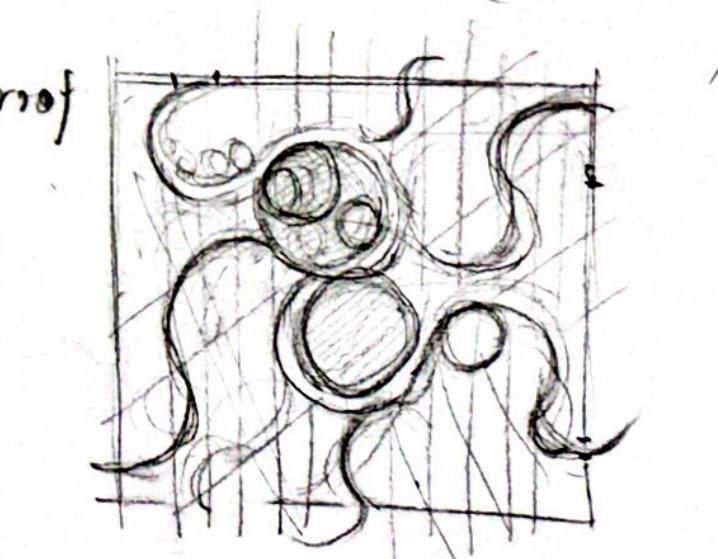
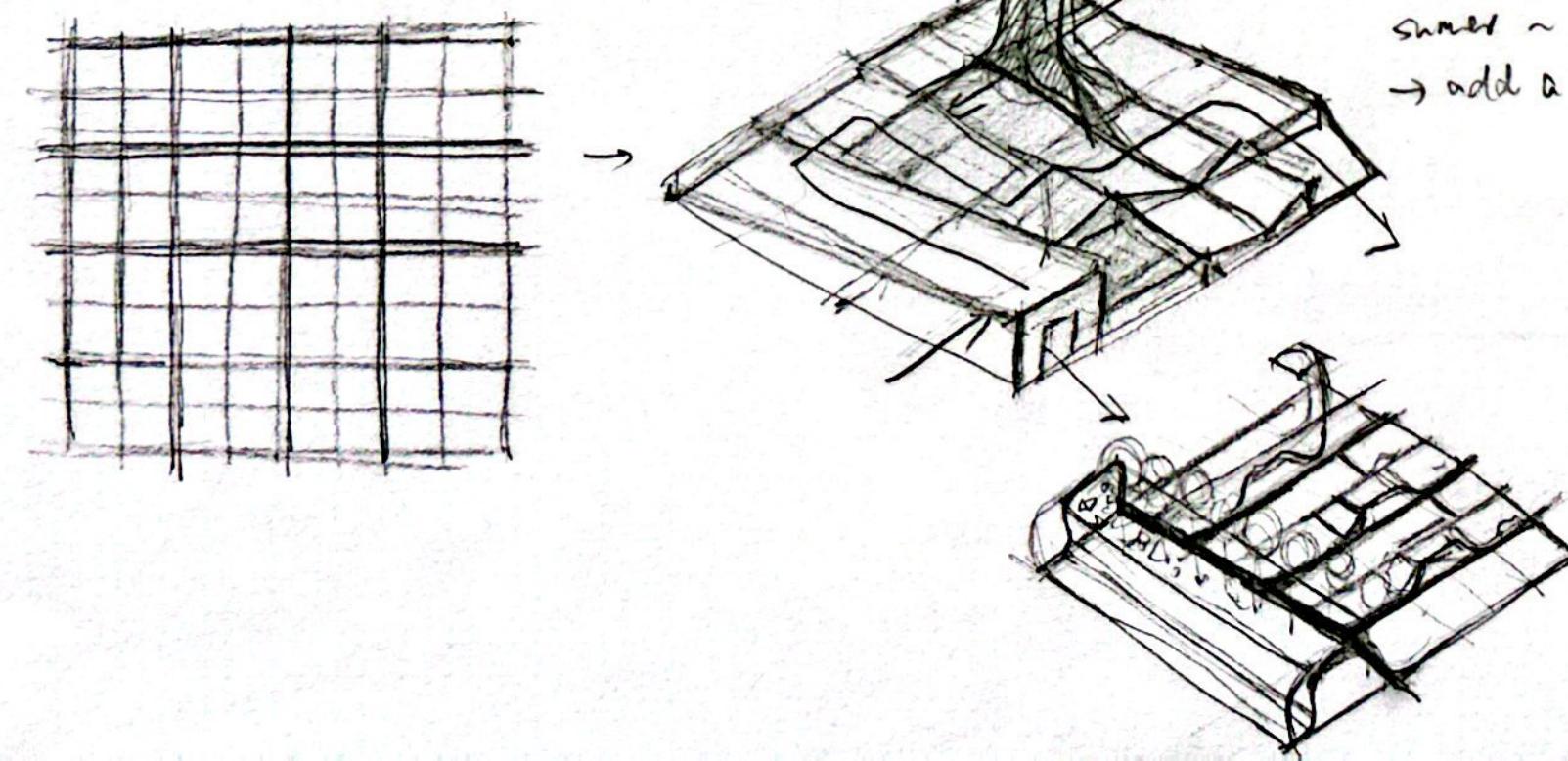
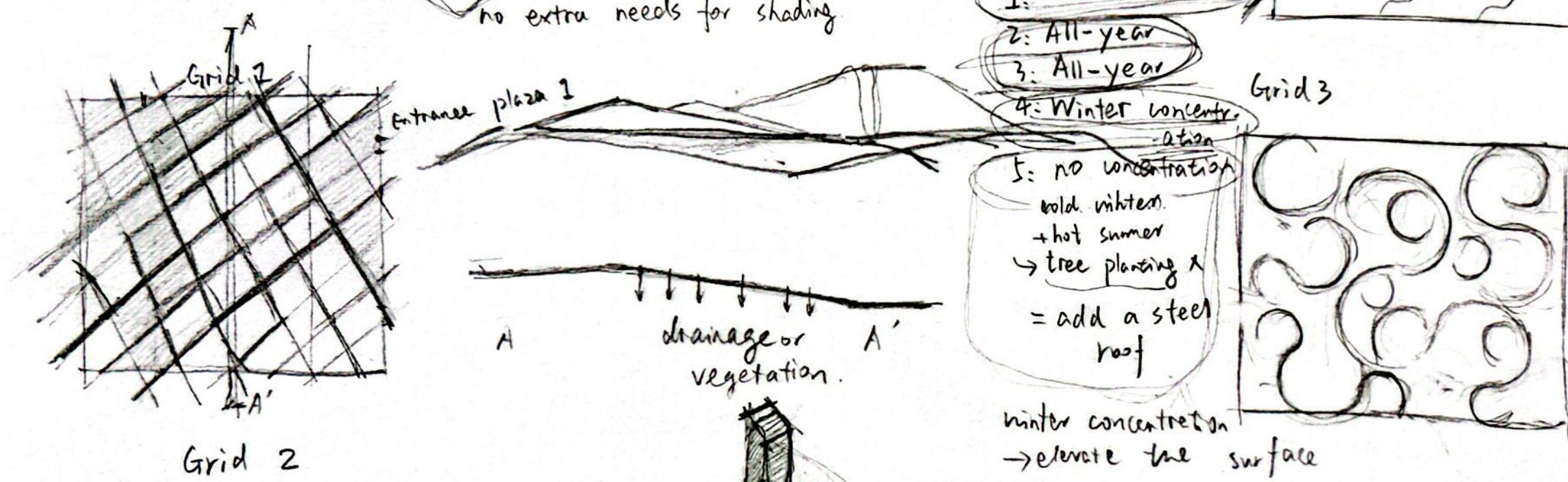
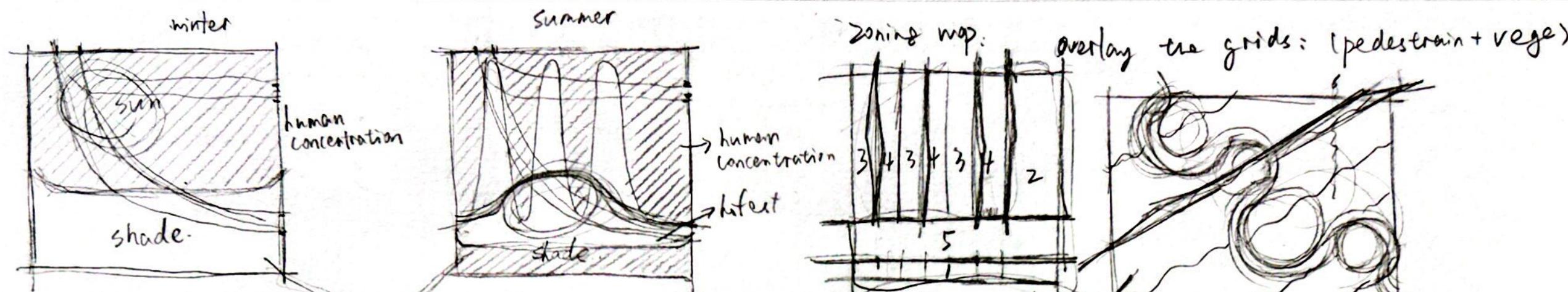
(3) High (10 feet ↑)

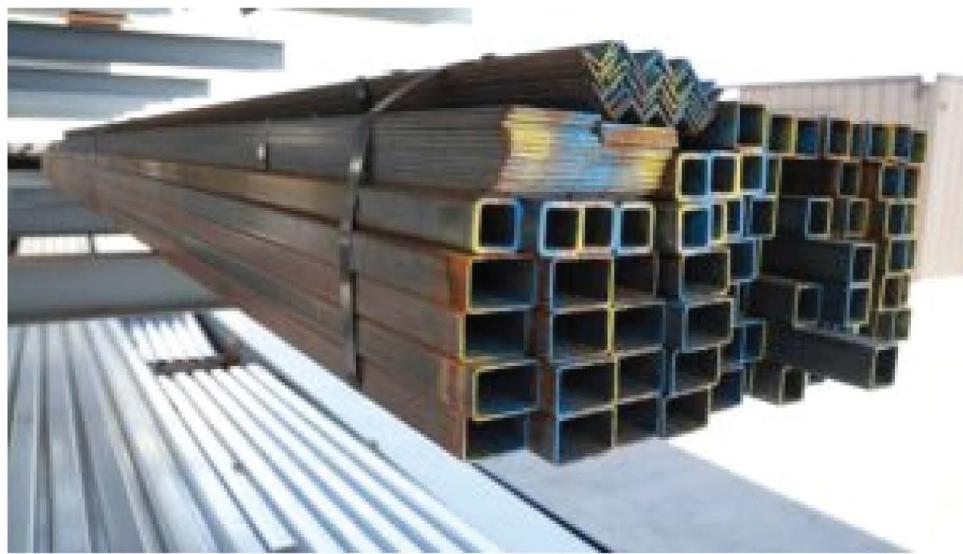


doors & corridors  
with shading elements



没关系，你以前不是学设计的，do your best 就行了！

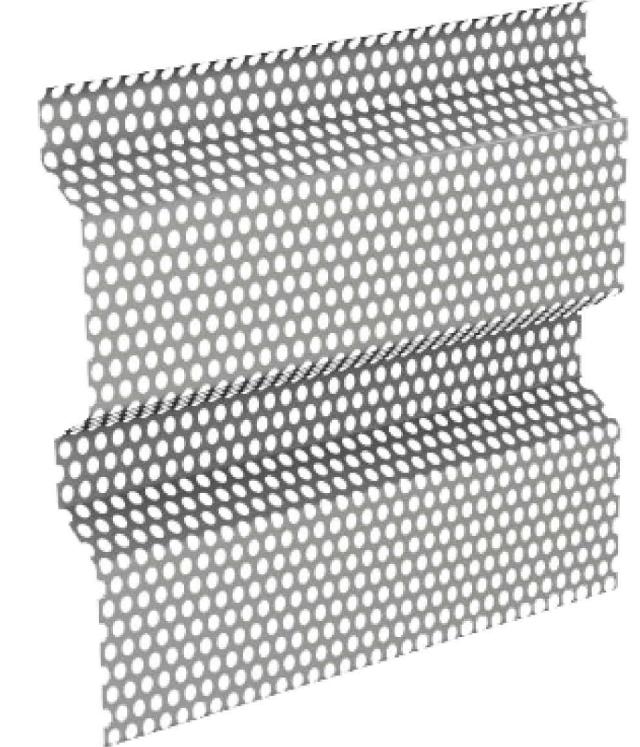




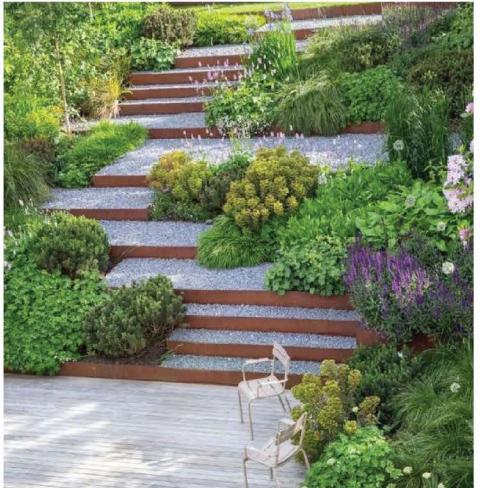
Corten steel



Stainless steel wire rope



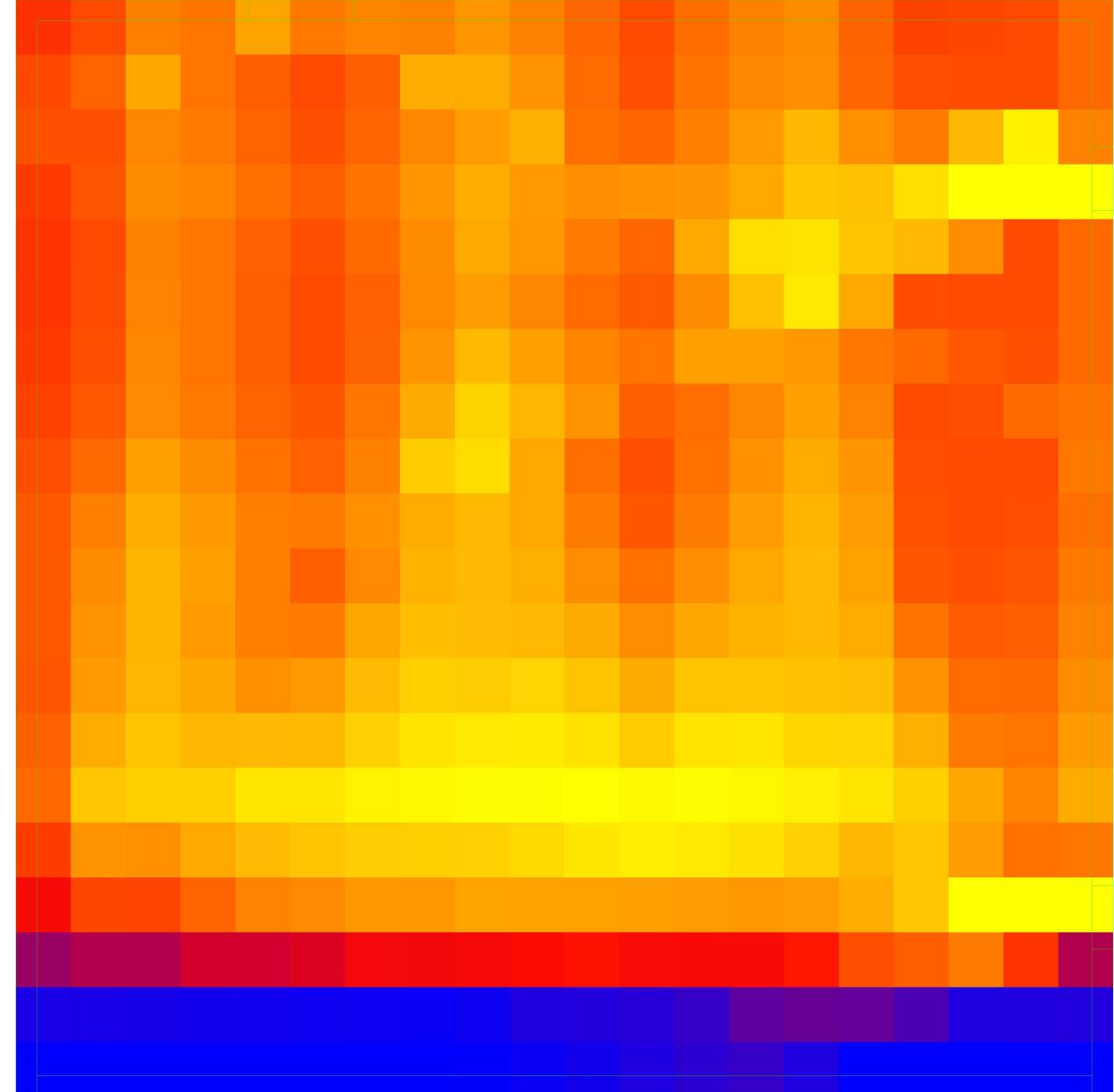
Perforated steel



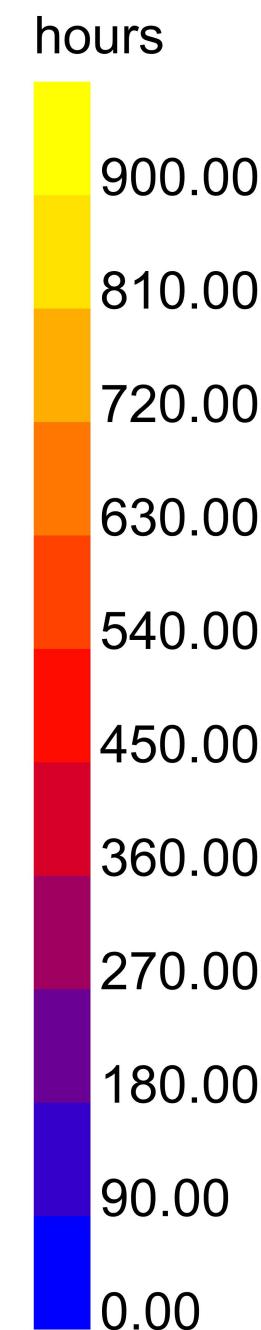
Steel as edge conditions

Steel as a malleable surface and interface

Steel as a shading infrastructure



Direct Sun Hours



ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"

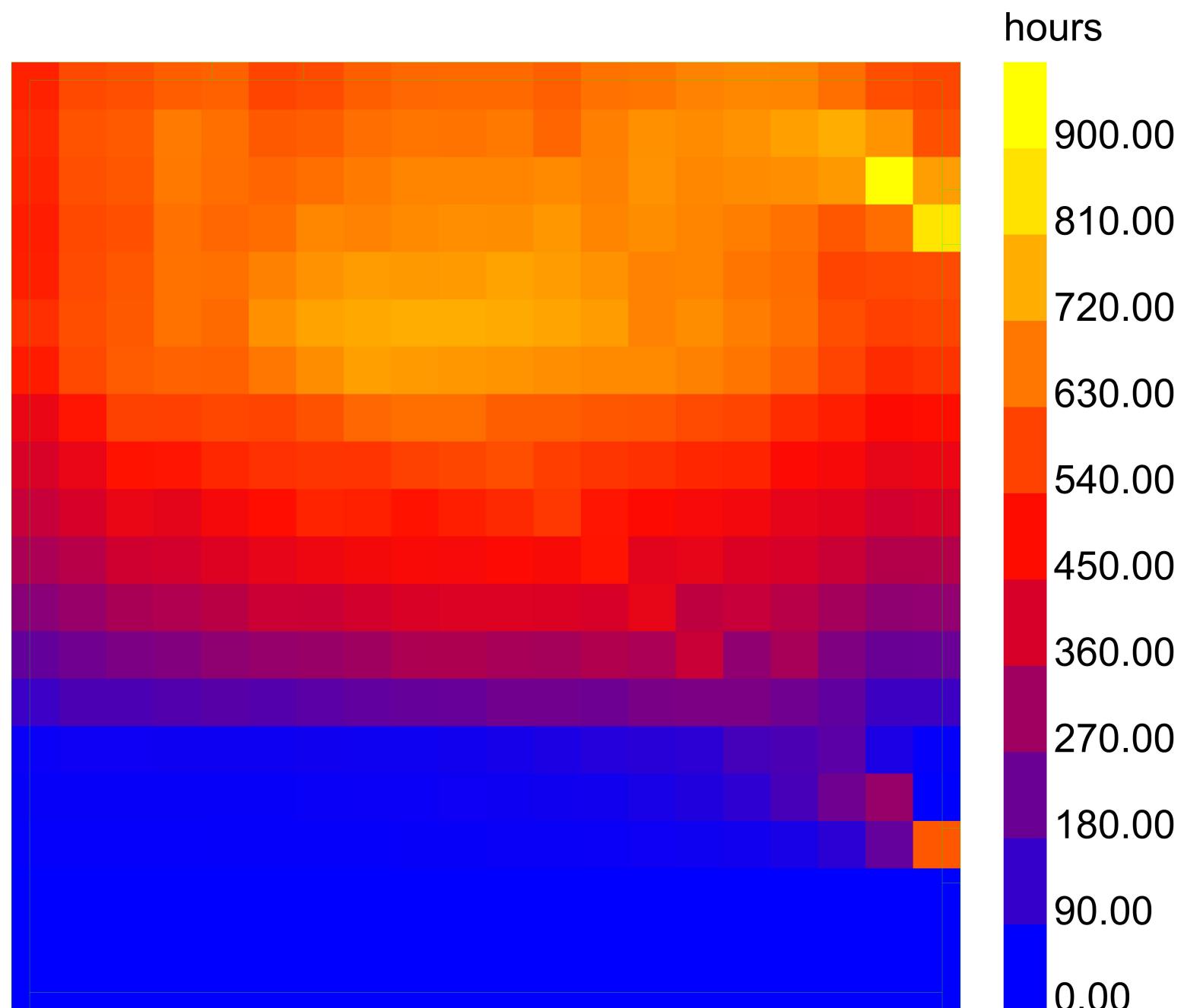


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8

16

32



## Direct Sun Hours

ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"

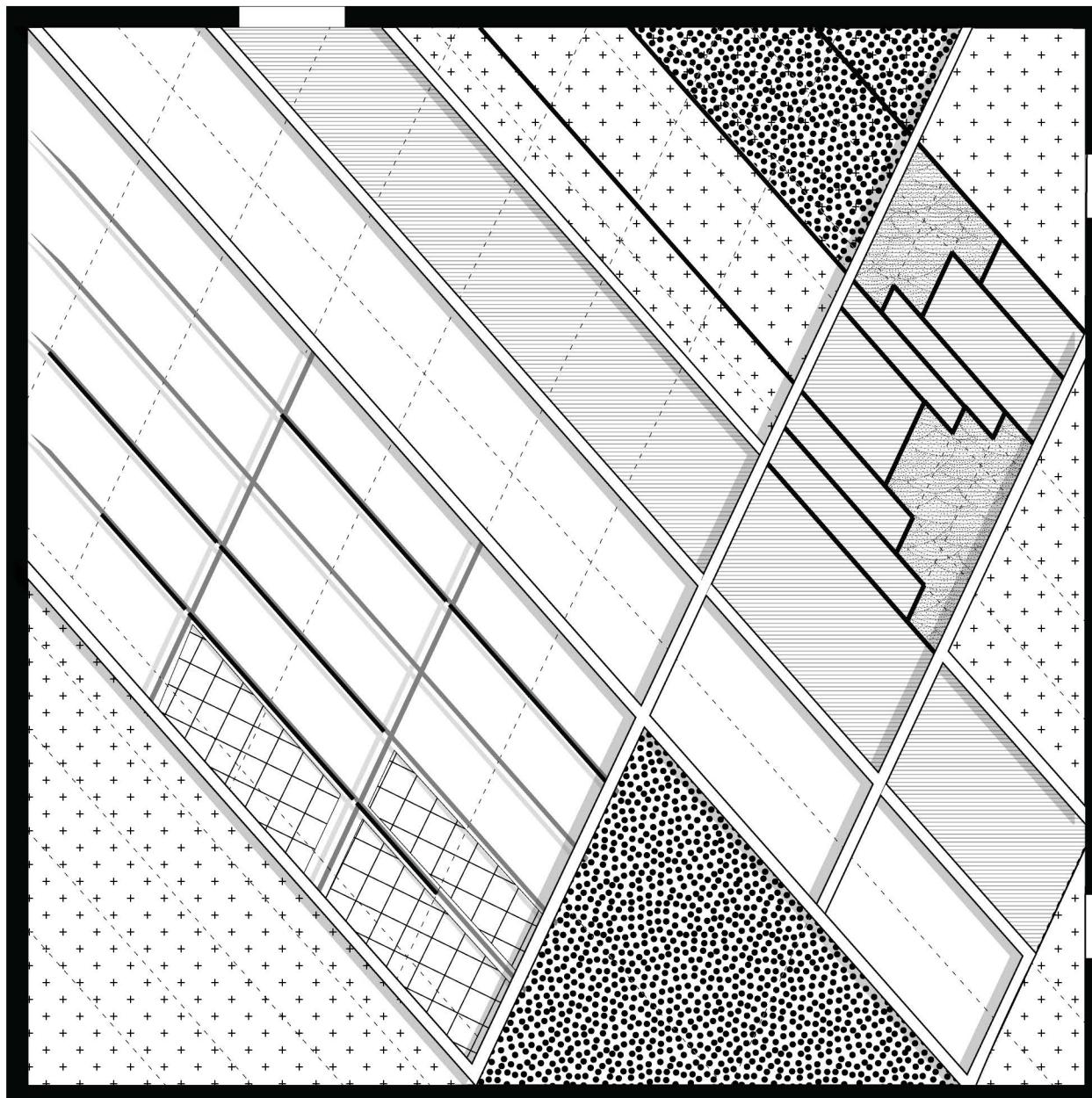


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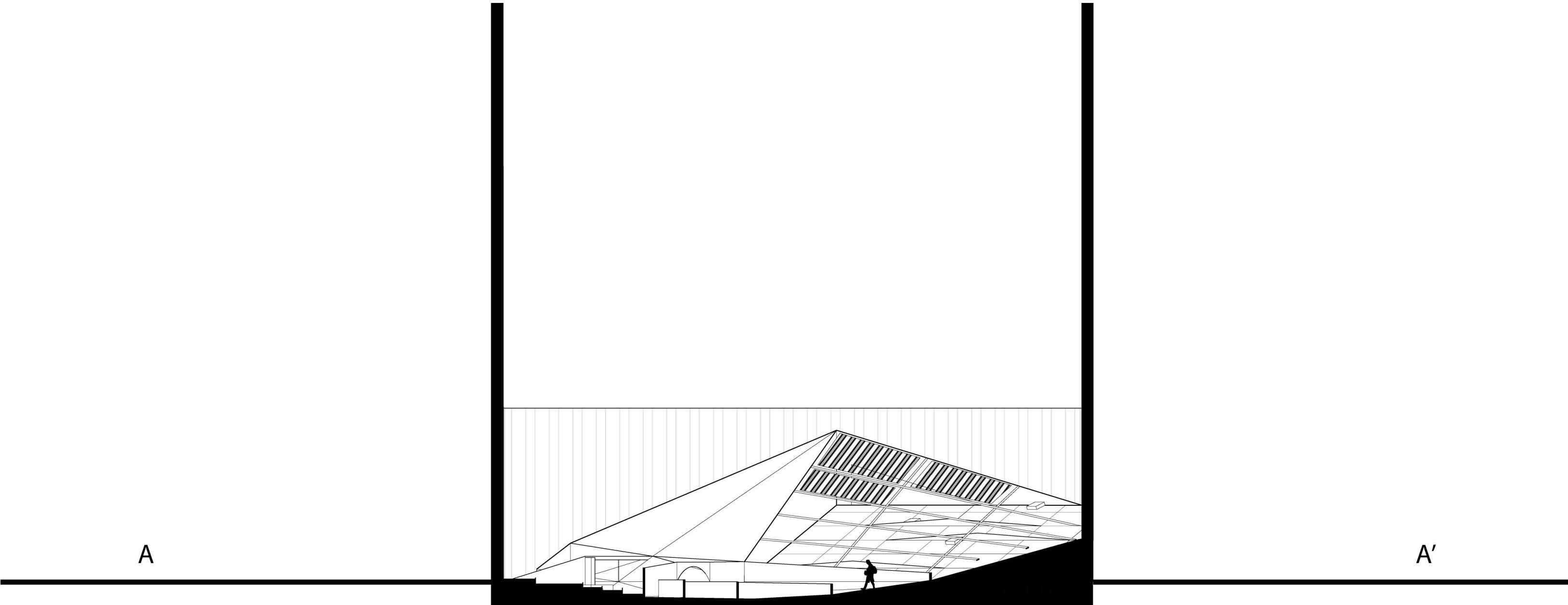


- [Grey hatched pattern] Stainless steel wire rope
- [Thick black line] Steel retaining walls & planters
- [White rectangle] Steel wall
- [Grid pattern] Perforated steel panel
- [Dotted pattern] Forest
- ['+'] Lawn
- [Stippled pattern] Rocks
- [Horizontal lines] Walkway

ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"



0 8 16 32

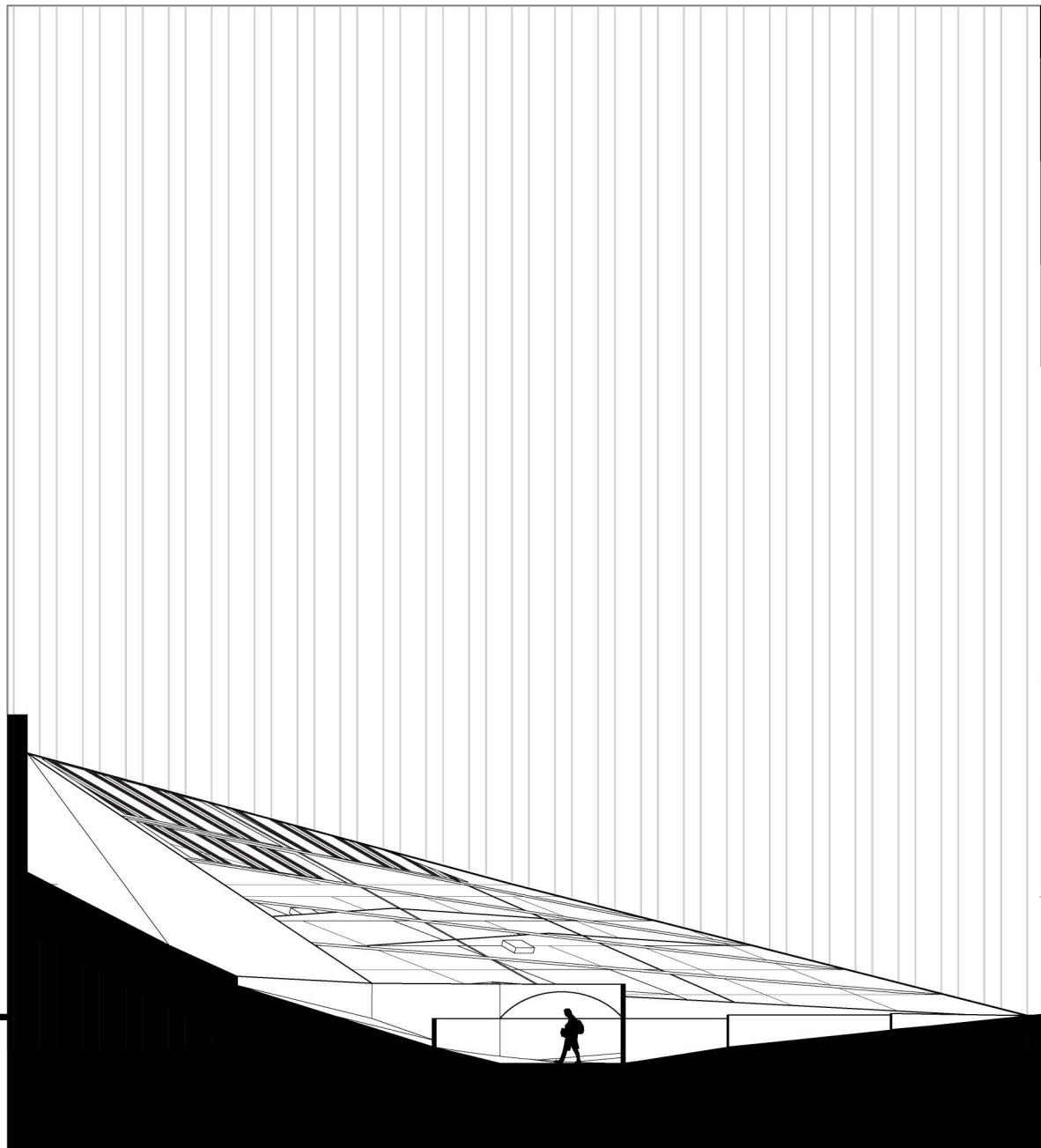


ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 8'-0"

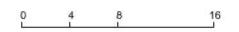
0 4 8 16

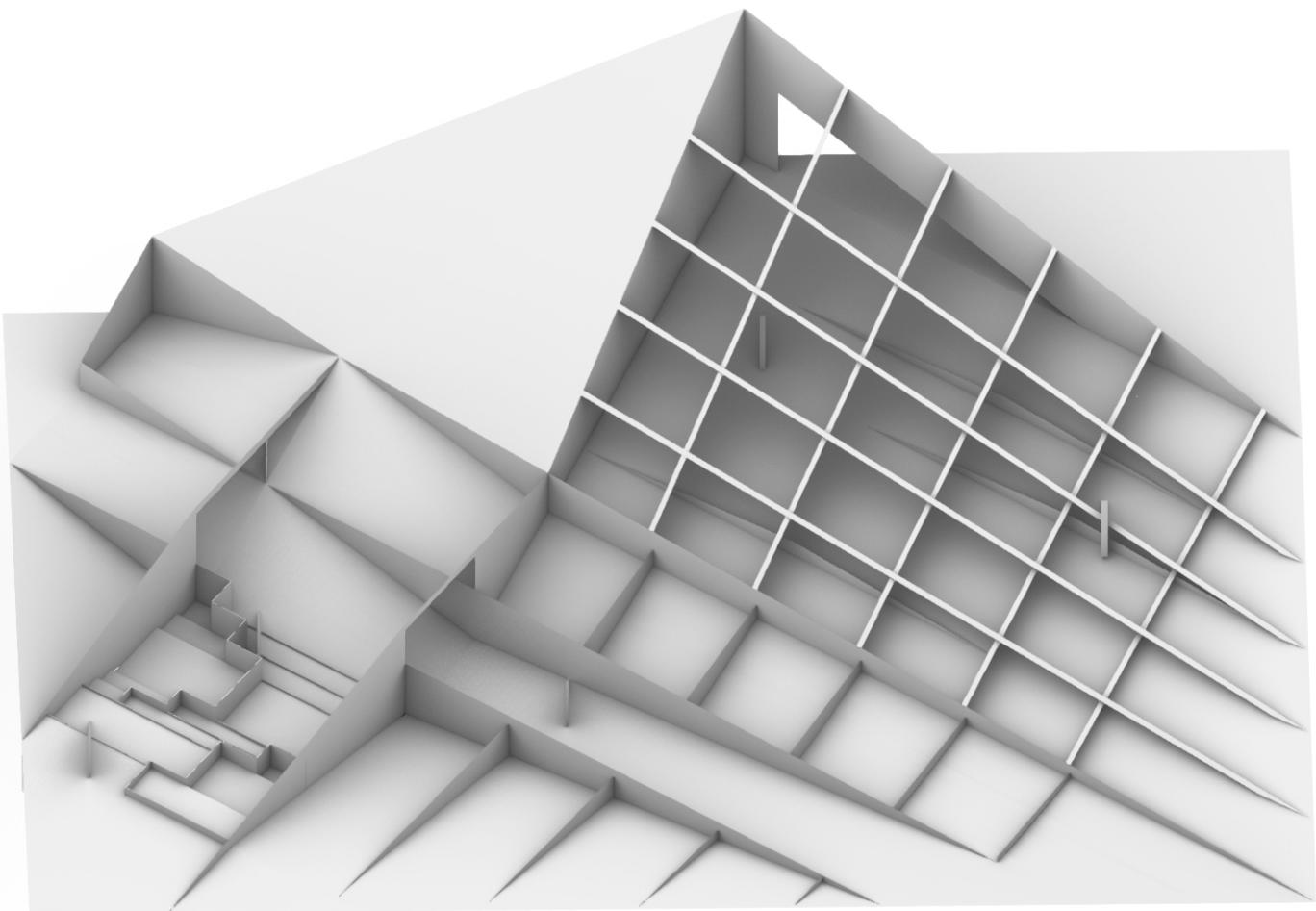
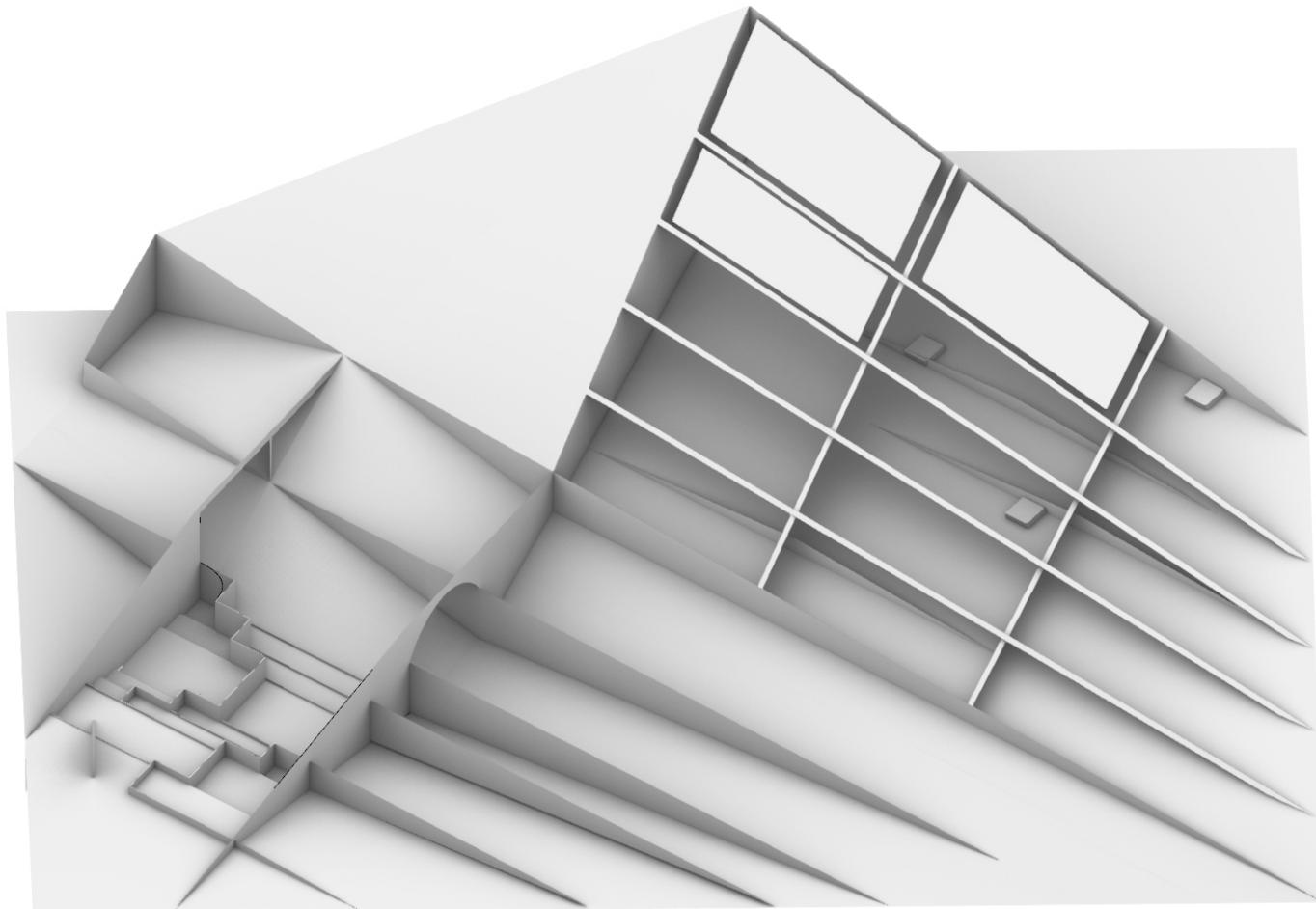
B

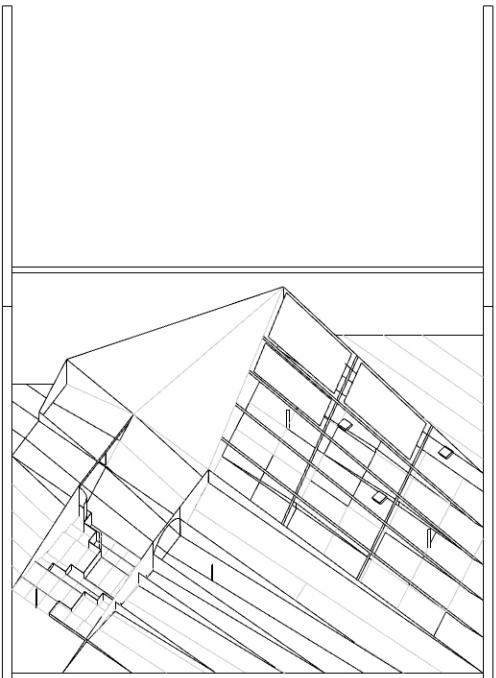
B'



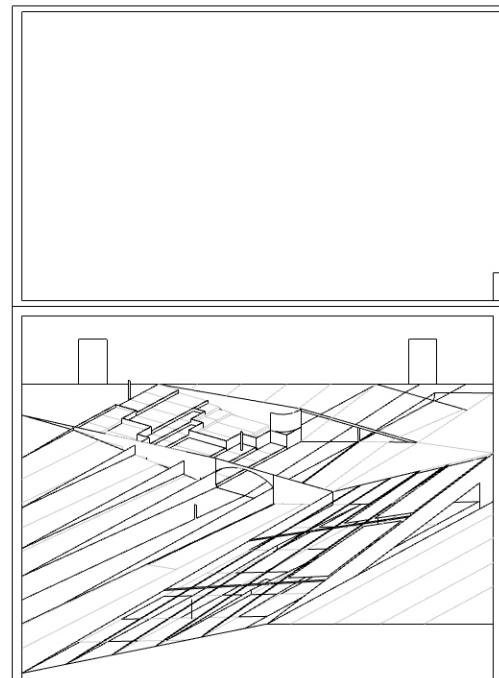
ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 8'-0"



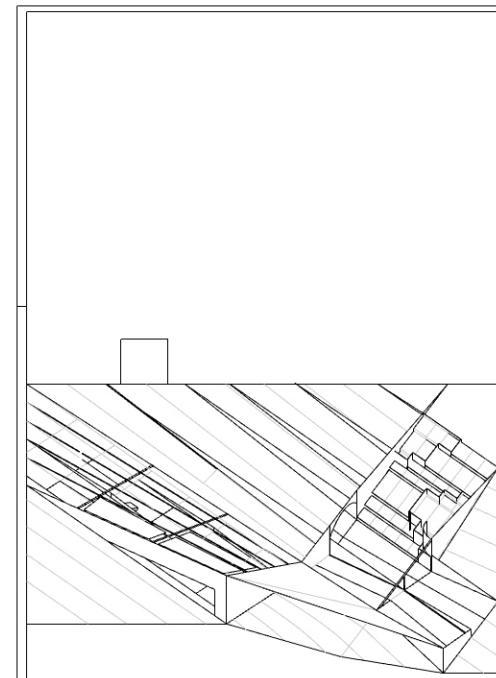




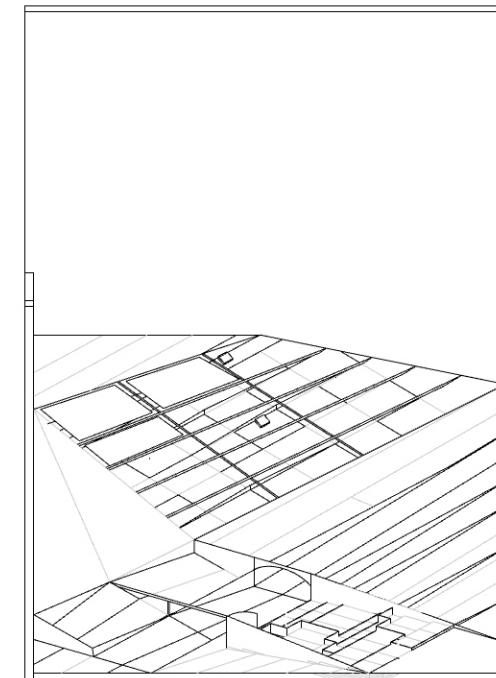
North



West

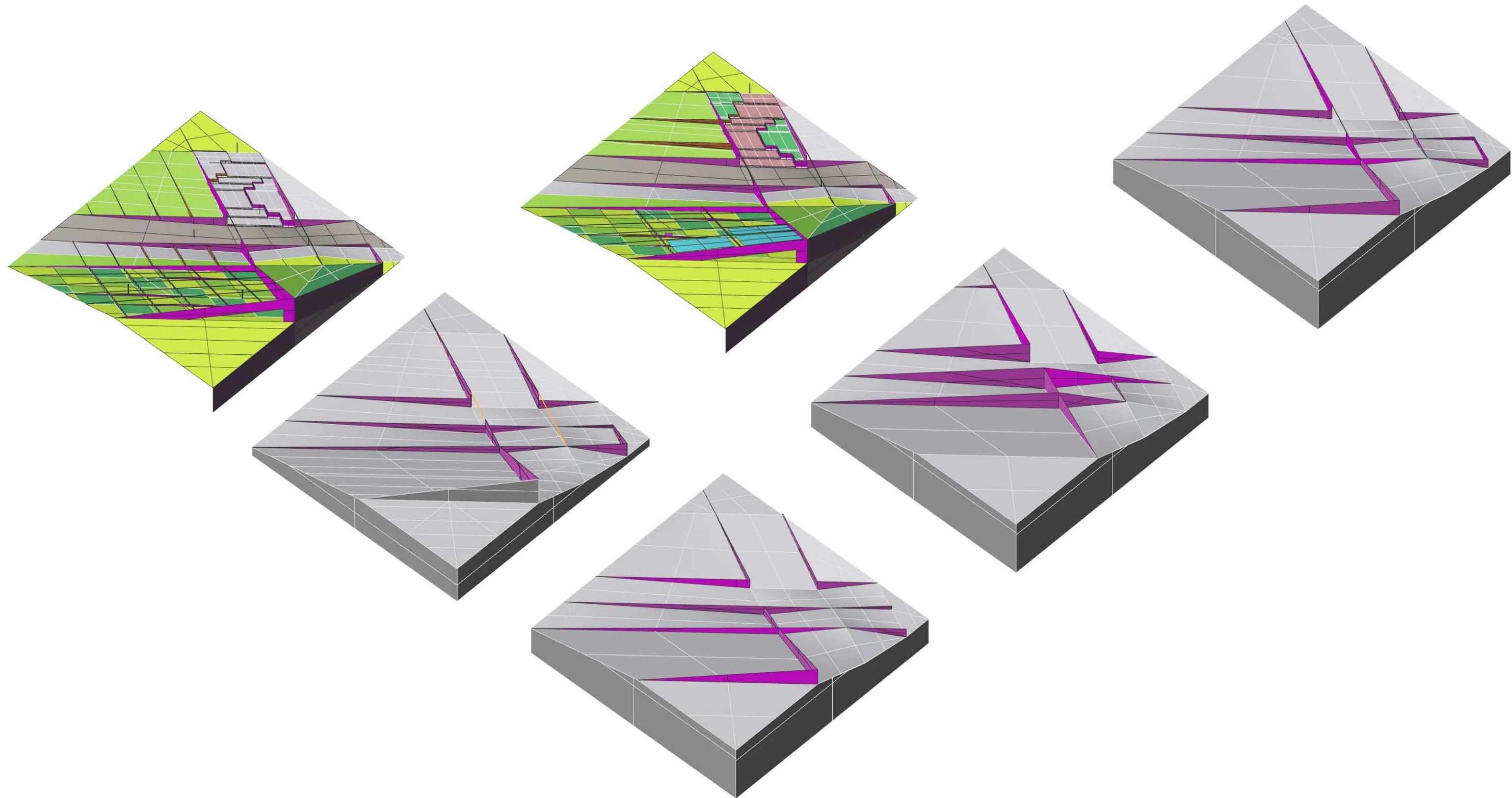


South

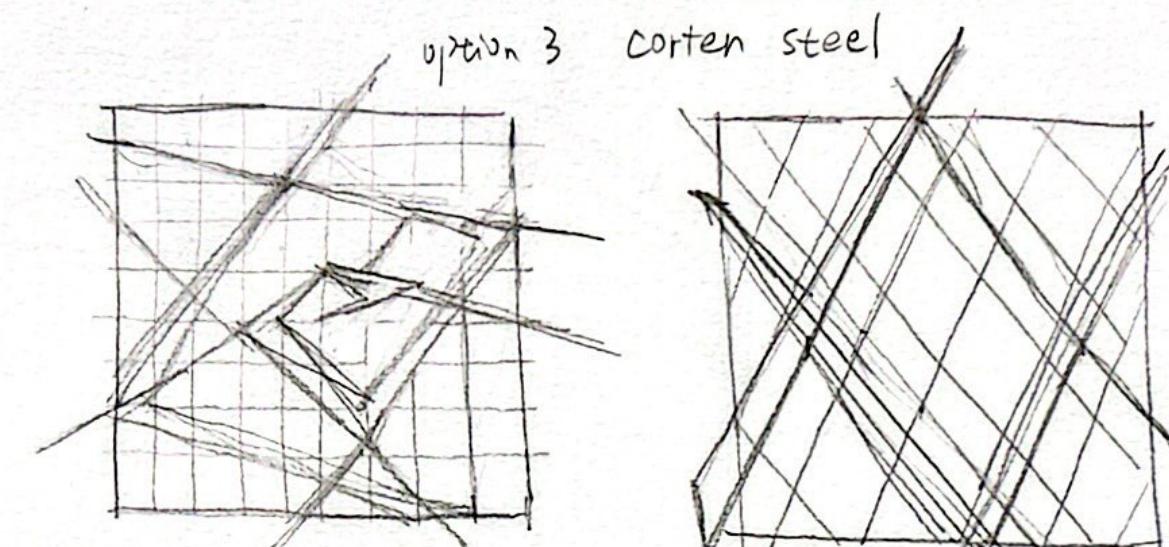
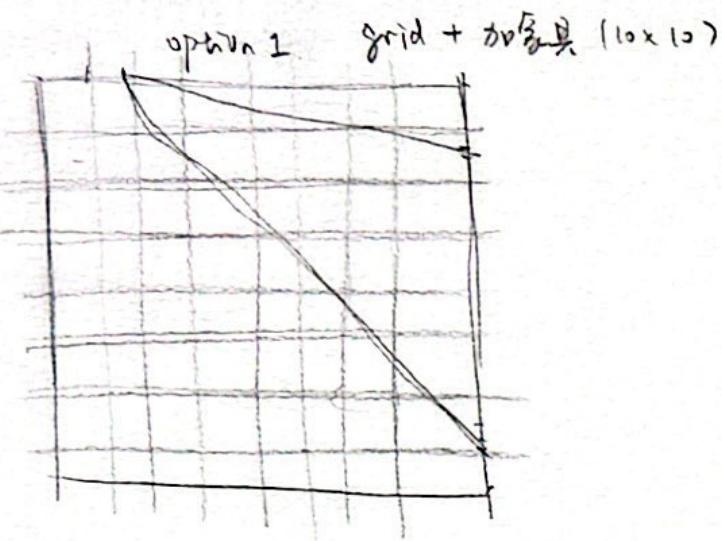


East

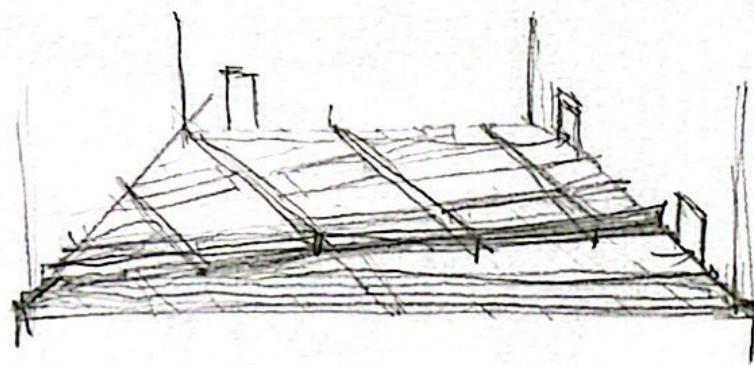
# Form test



Week 3



option 2 canopy on the floor



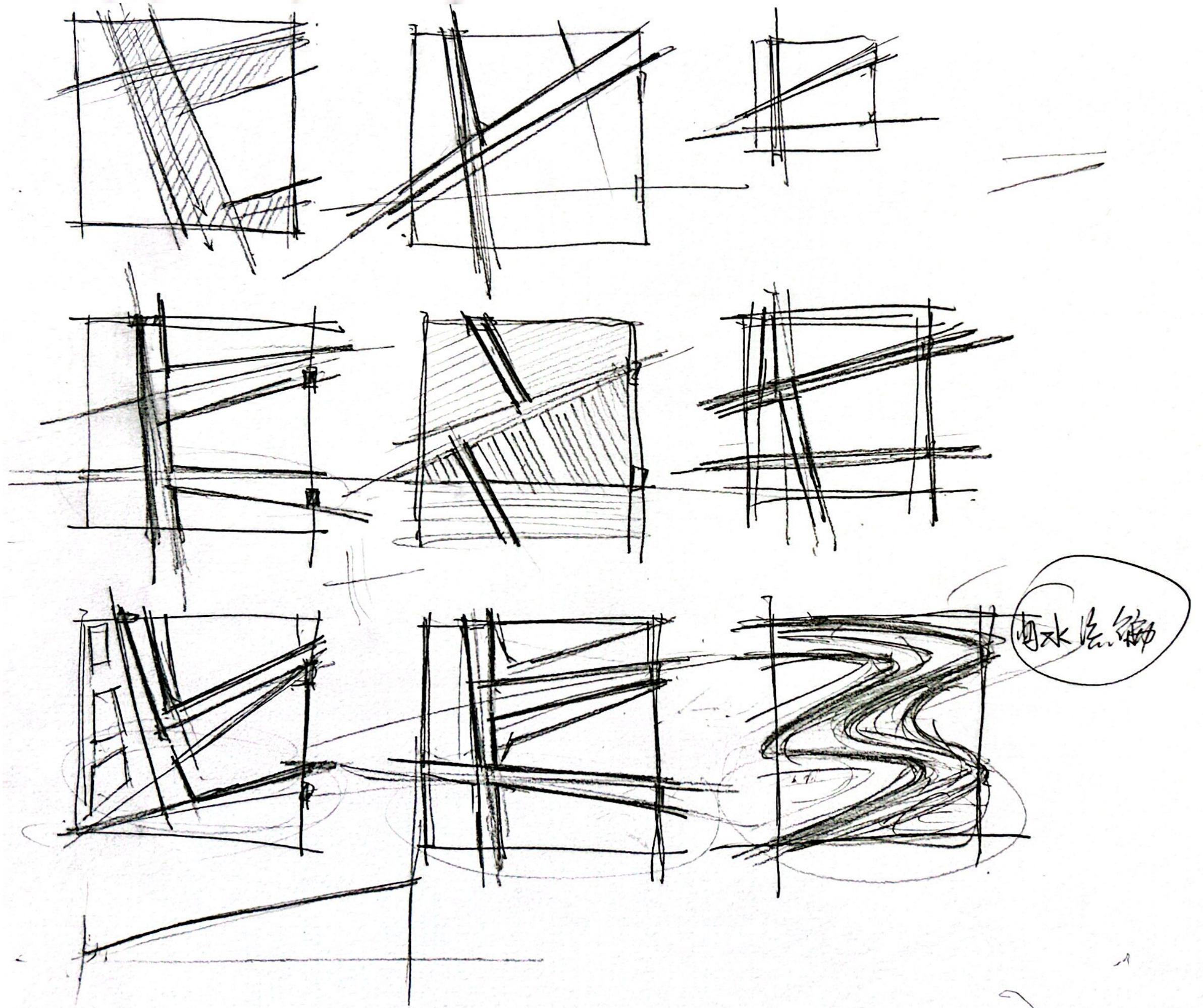
还没放完场，没放曲面的 steel

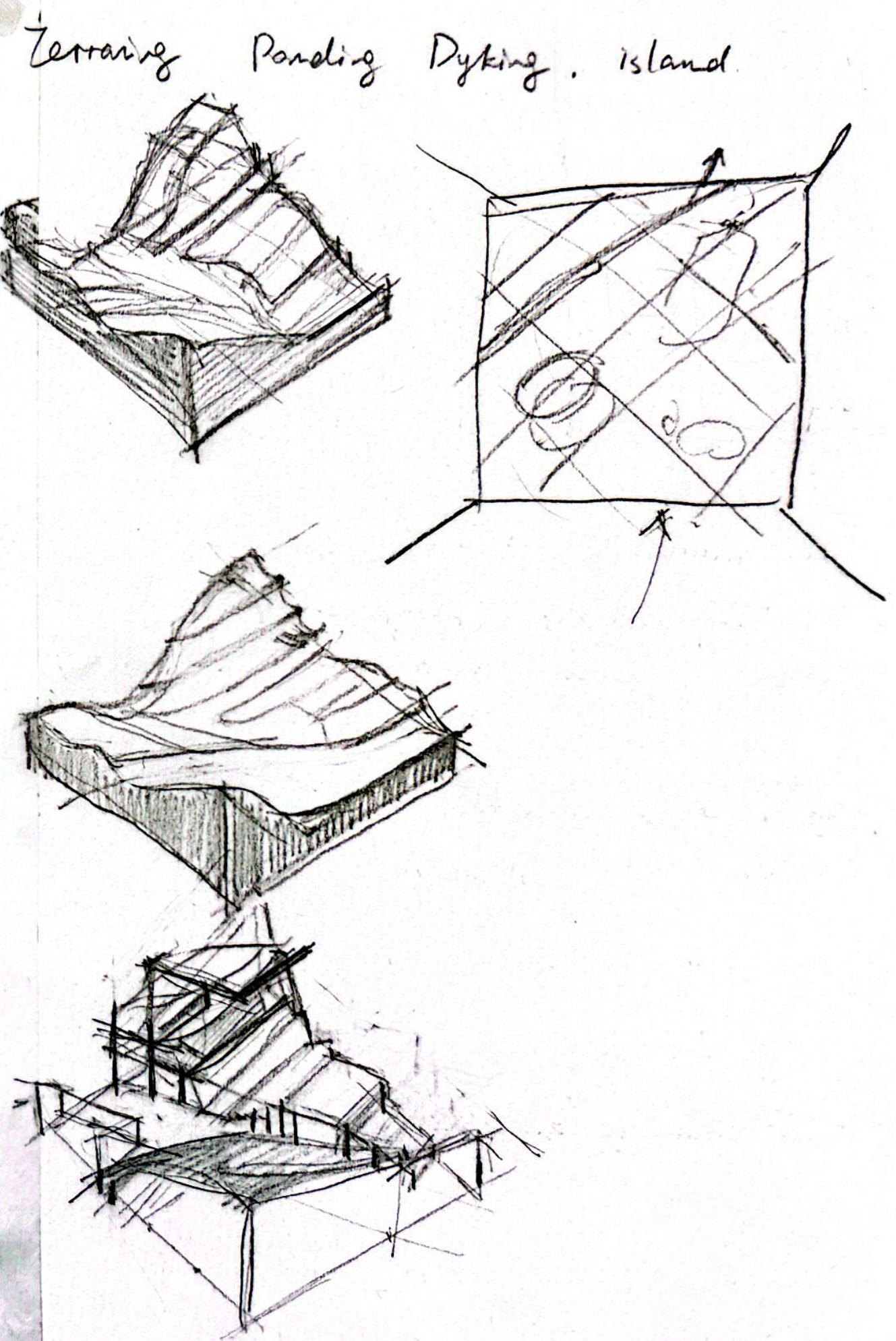
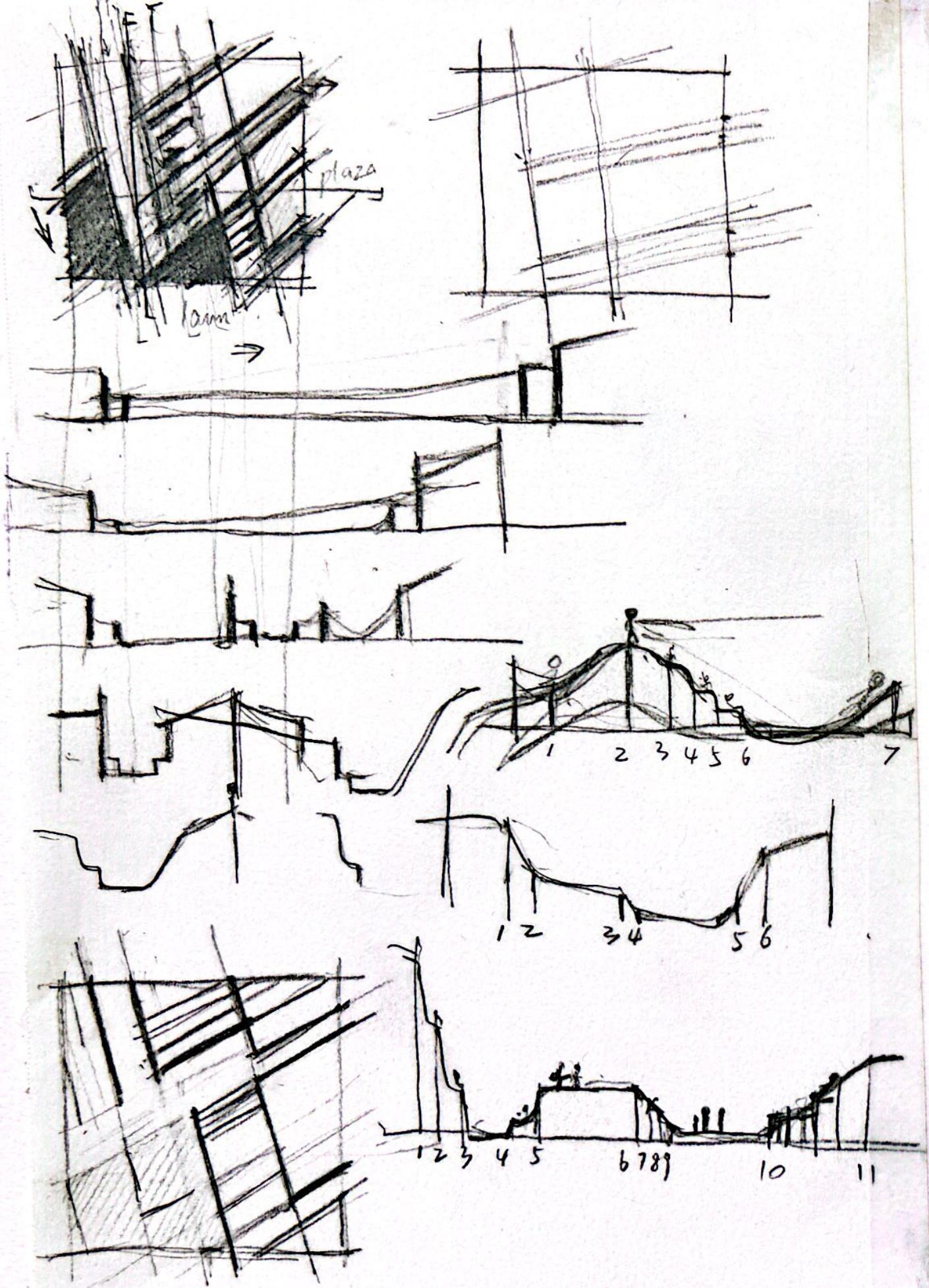


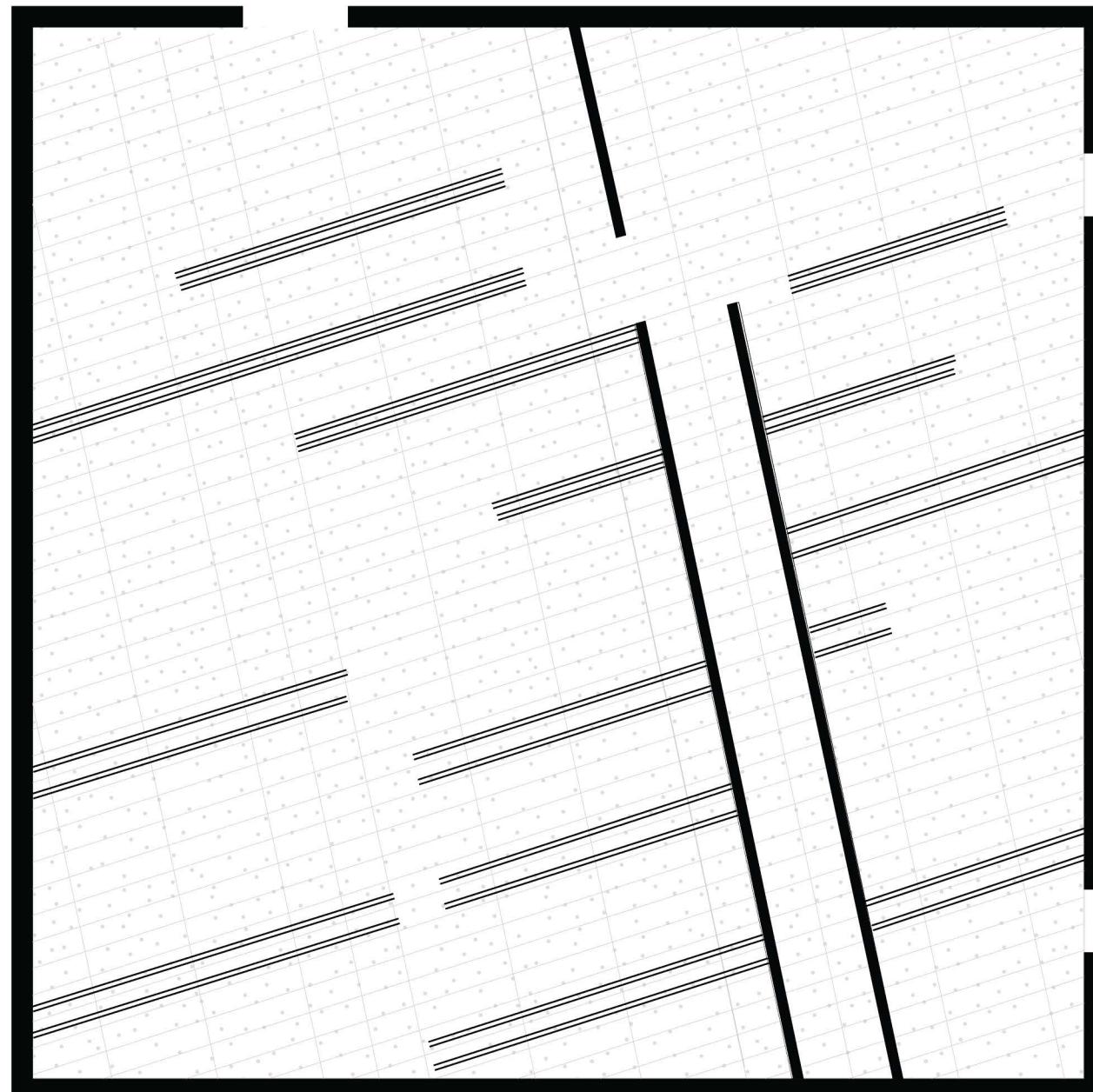
Boston Uni

University of  
Connecticut

- ① laid grid outline overlay sun light
- ② derivate - the grid
- ③ use rope to create furniture & wall & stair case.







- Stainless steel wire rope
- Steel wall
- [grid icon] Lawn

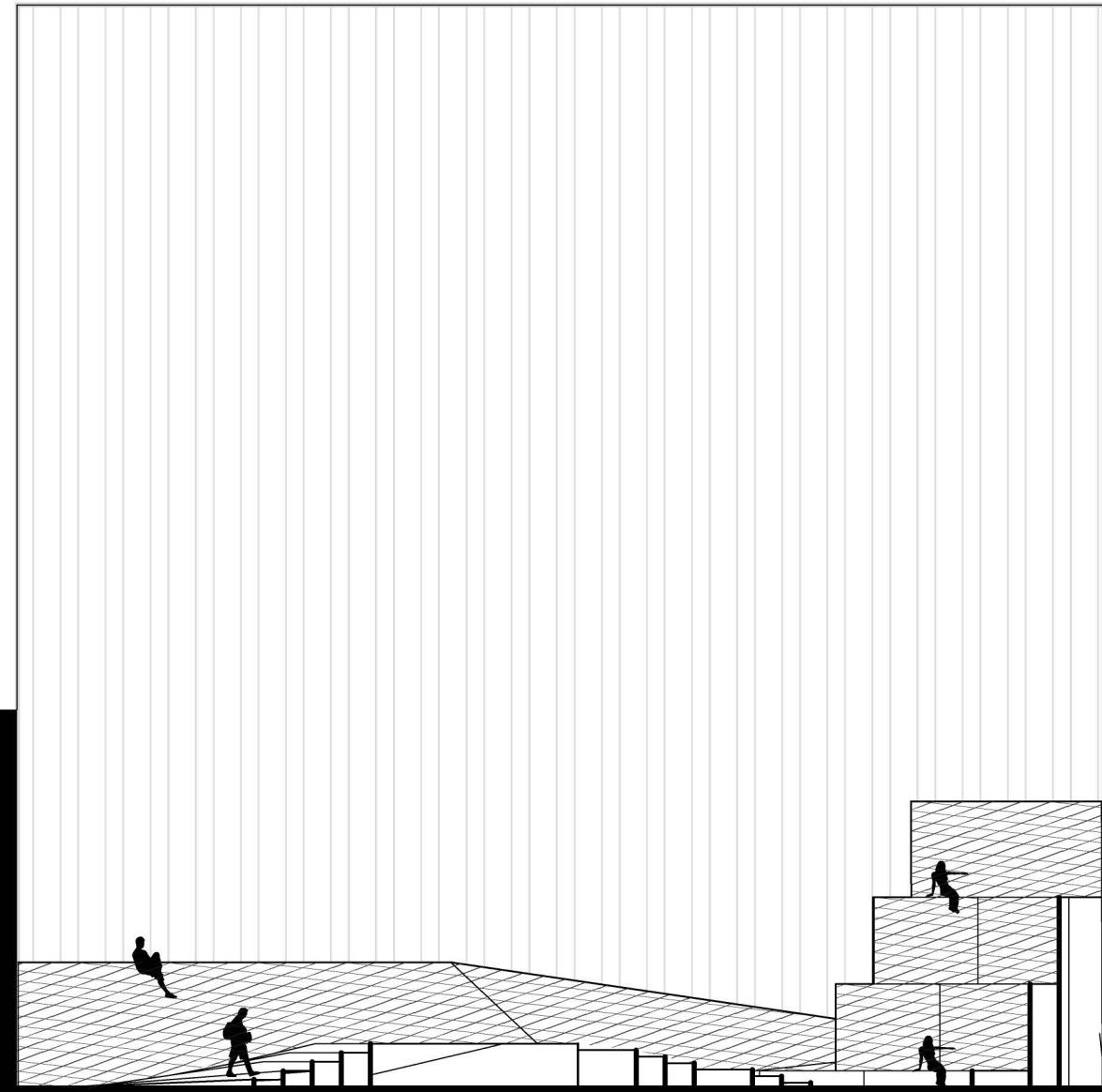
ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"



0 8 16 32

B

B'

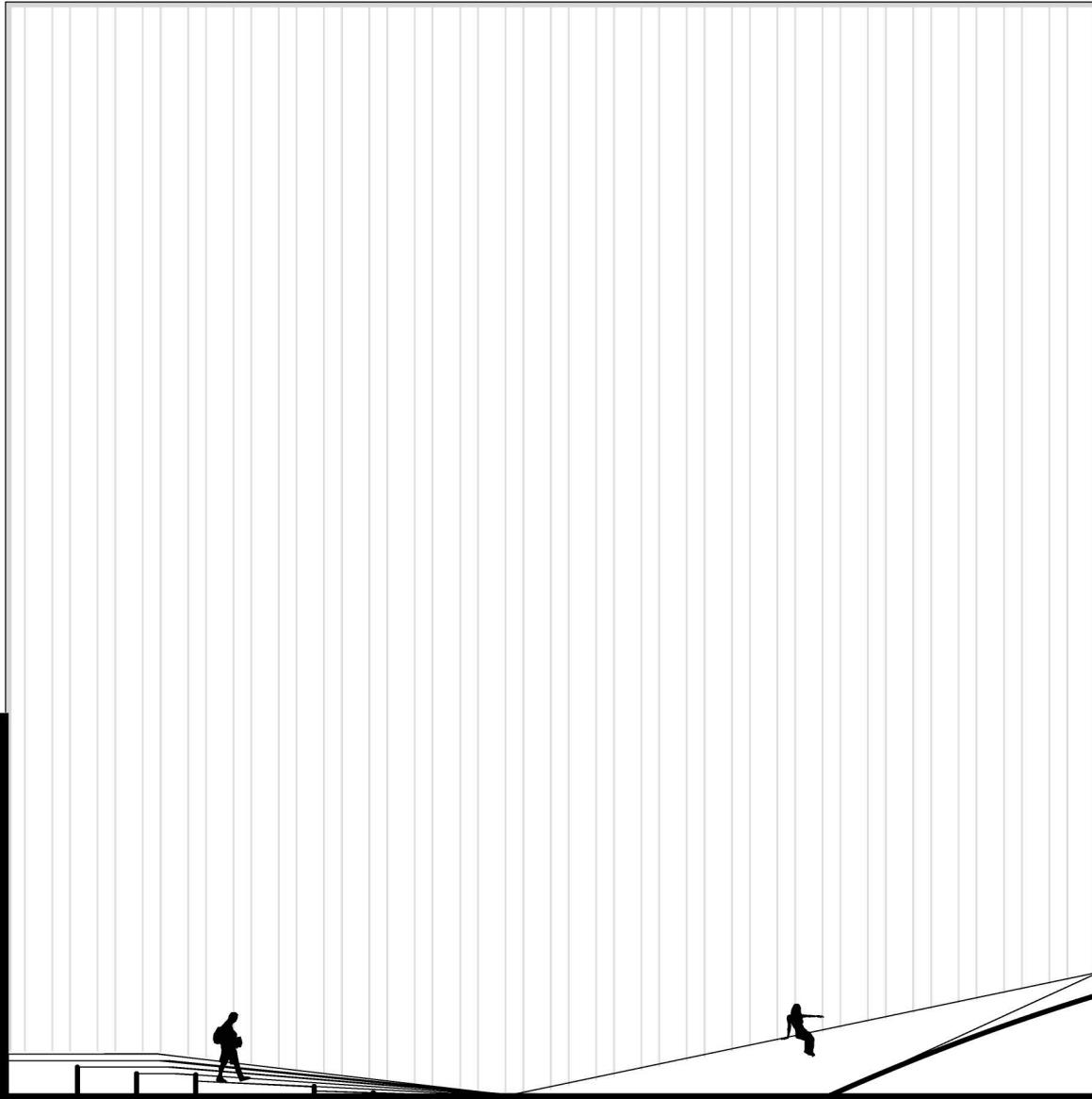


ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 8'-0"

0 4 8 16

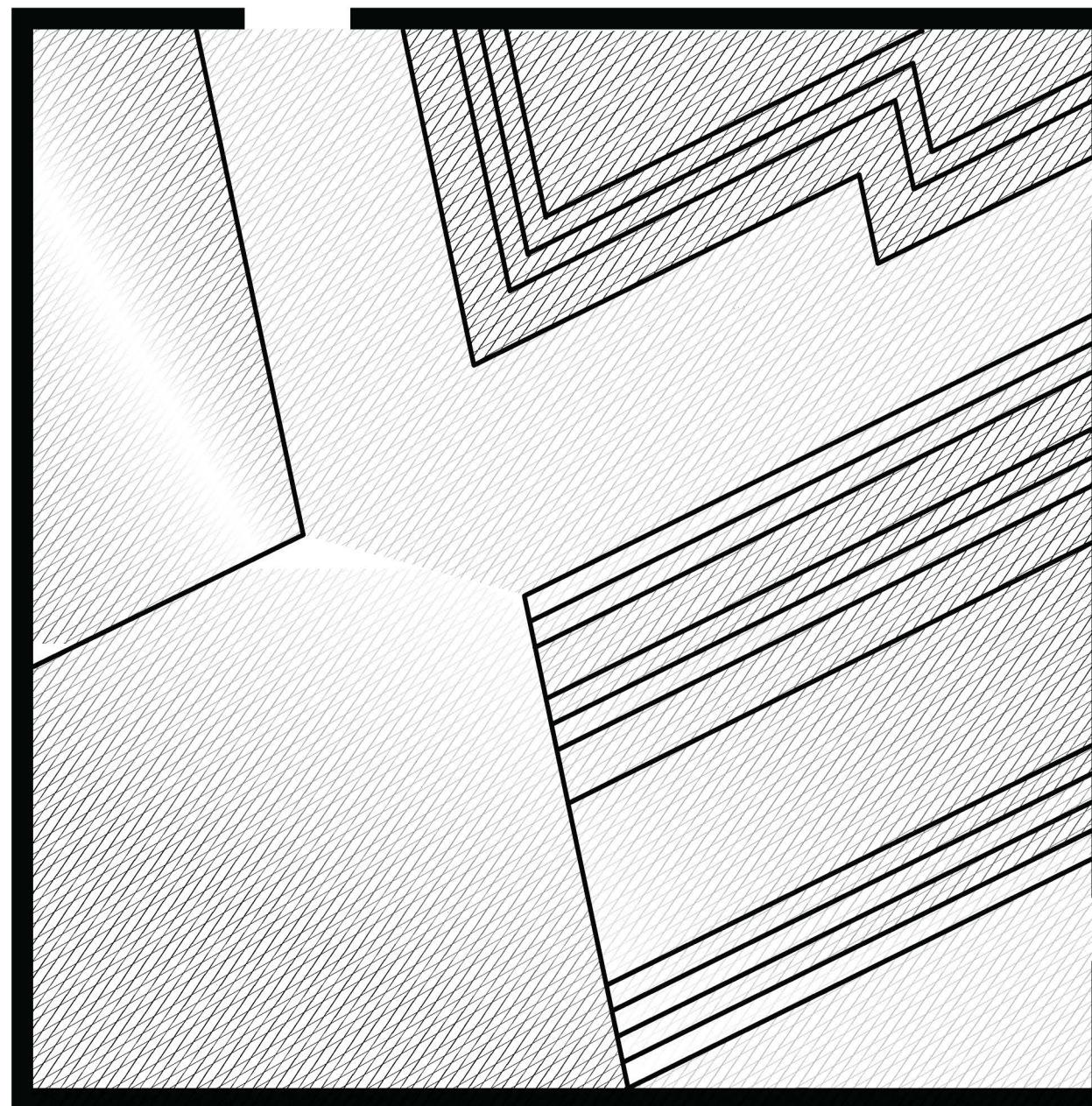
B

B'



ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 8'-0"

0 4 8 16



ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"

