

## positive

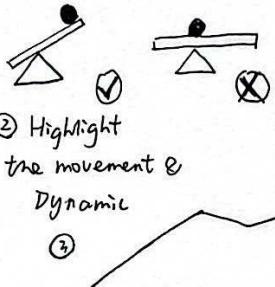
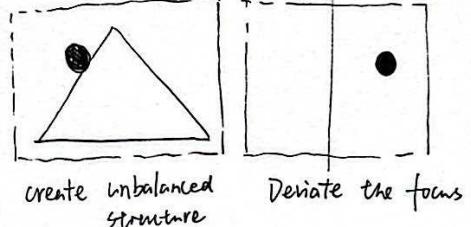
→ 戏剧性的冲突，矛盾的结合  
失衡的紧张感 → 静态/动态的平衡一般不会带给人们紧张感 → 引起观众发展画面信息的欲望 to explore more about an object)

In literature & film & art & photography.

(Narrative: Tension is motivation → a balanced configuration will not stimulate audience's expectation/motivation

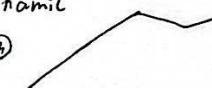
explore

① Break the symmetrical structure

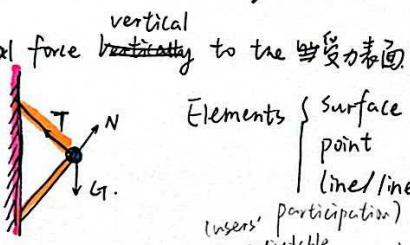
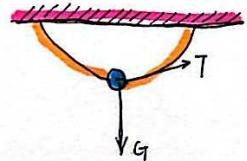


② Highlight the movement & Dynamic

③



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



Elements { Surface  
point  
line/linear elements.  
  
(users' participation)  
adjustable degree of

⑤ Paradoxical concepts or dramatic conflicts ~~contradictions~~ contradiction between people - environment/people-people  
[Tension in film-making]

⑥ 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 <sup>level of</sup> excitement

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

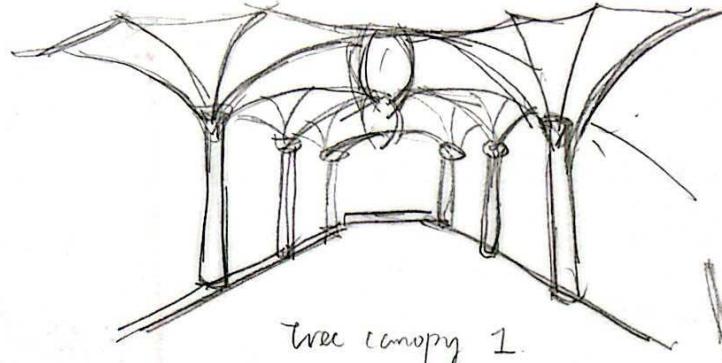
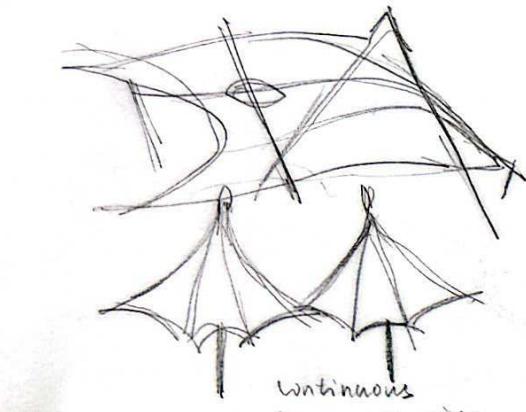
adjustable tension: Steel (man-made; high tensile strength).

{ unbalanced  
insymmetrical  
contradiction  
stress & conflicts  
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



physical → physics  
meaning of tension

how climate/natural  
process influence tension?

rainy days?

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



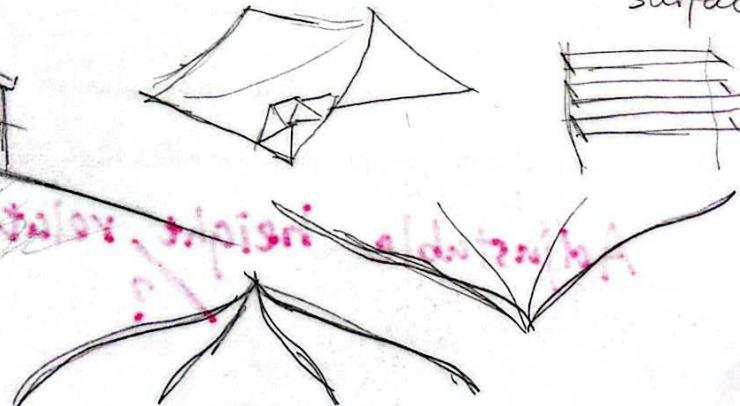
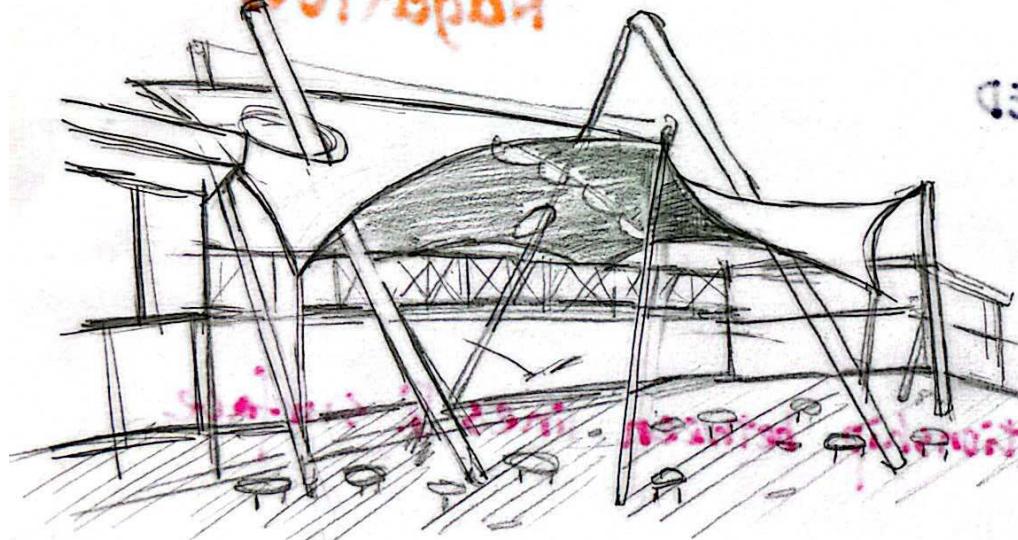
or

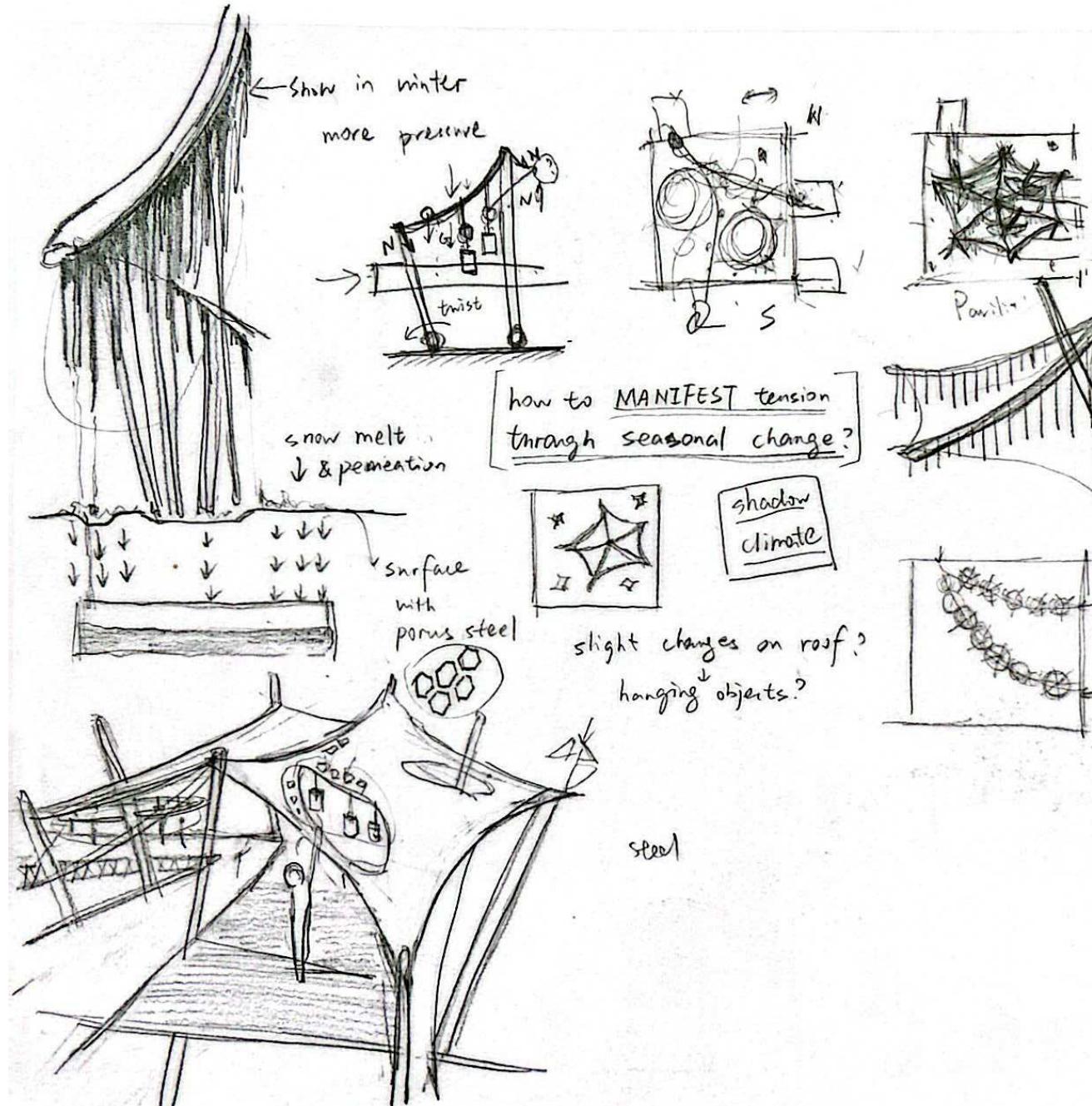


kind of transparent

TRANSPARENCY / BACKLIT GLASS

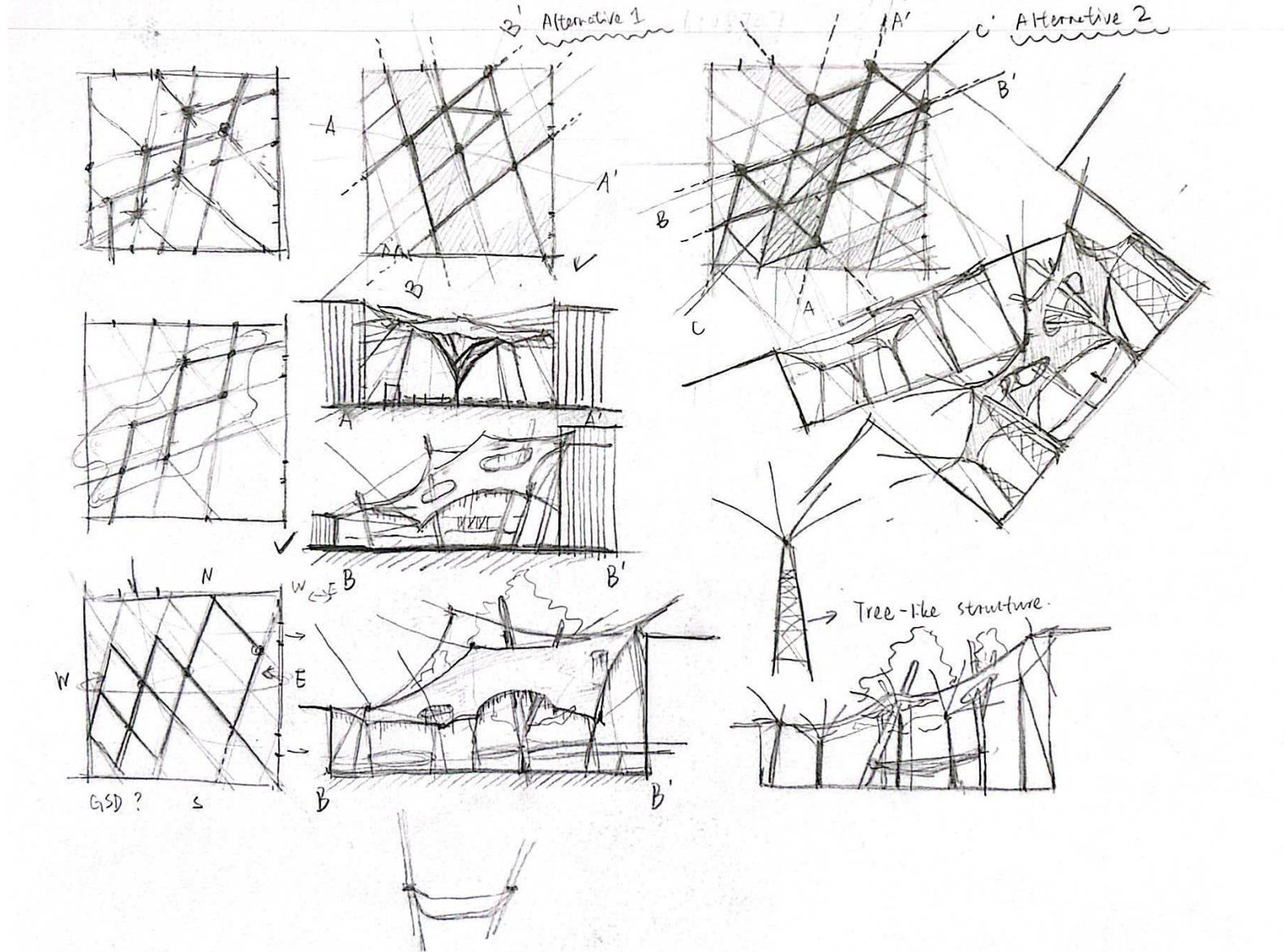
triangular surface & transparency surface

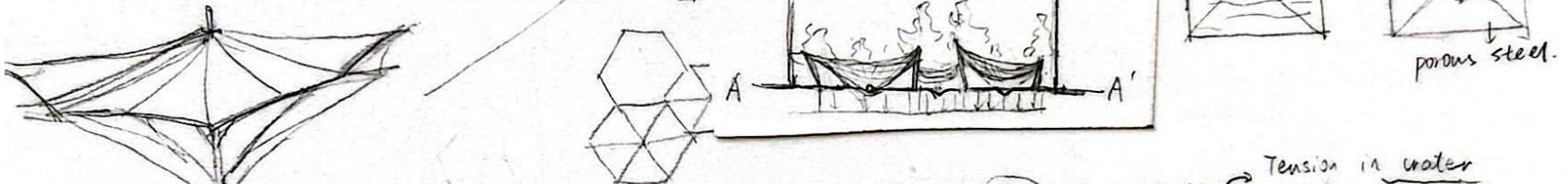
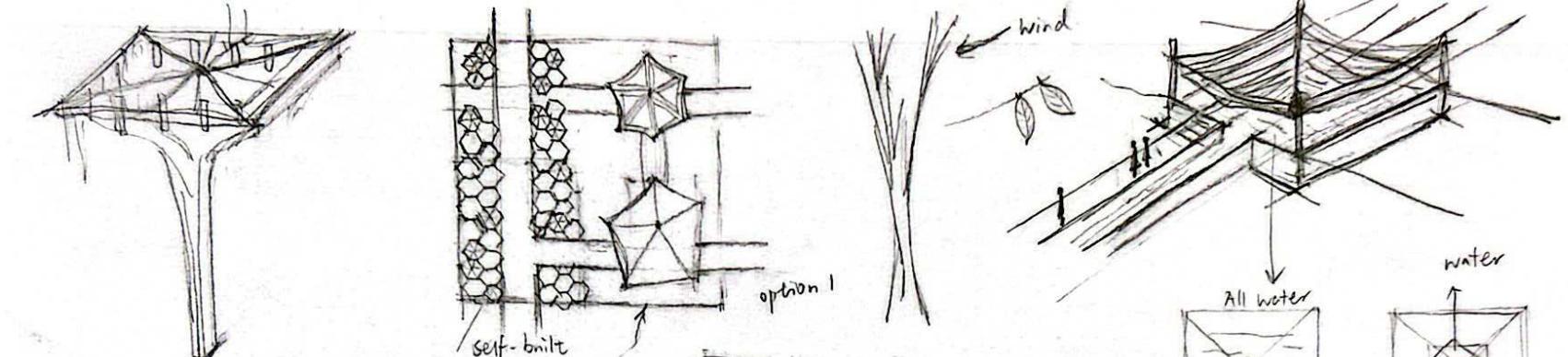




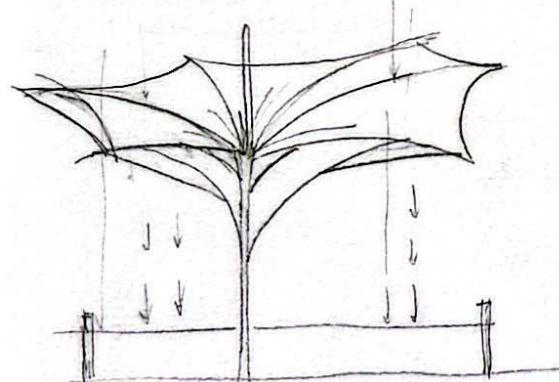
Problems to be solved:

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

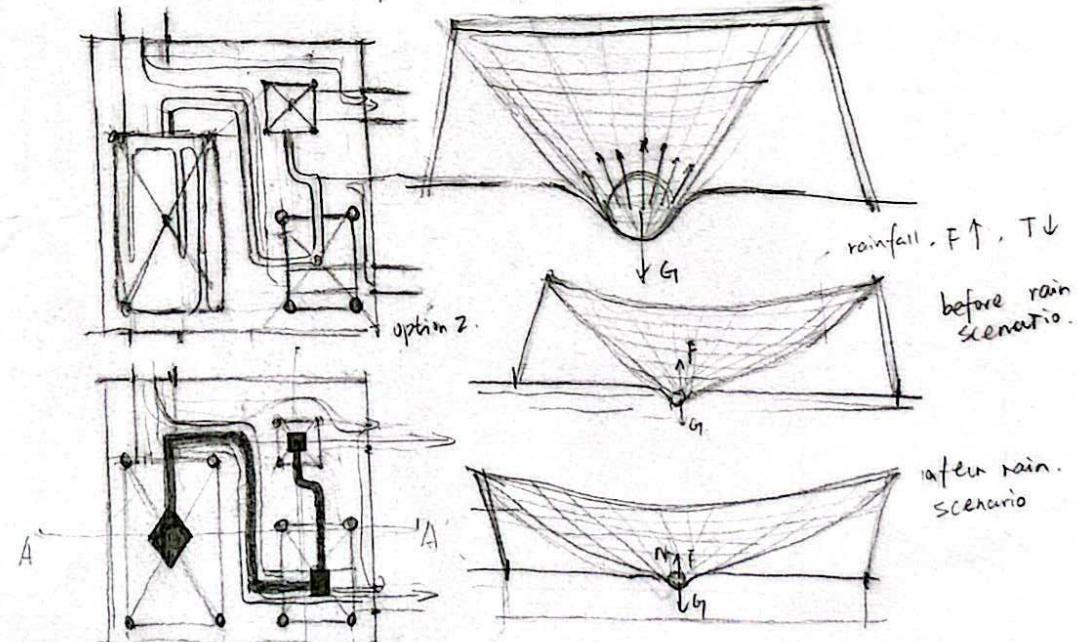


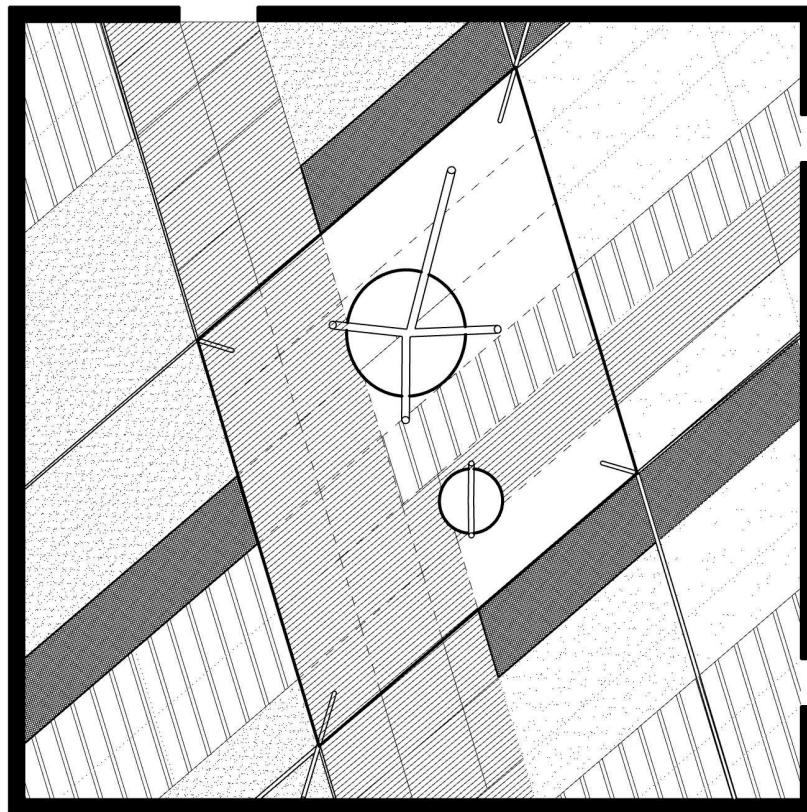


How to define the degree of "tension"? Tension in water



shadow study





Pavement 1



Pavement 2



Water



Shrubs & Forest

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

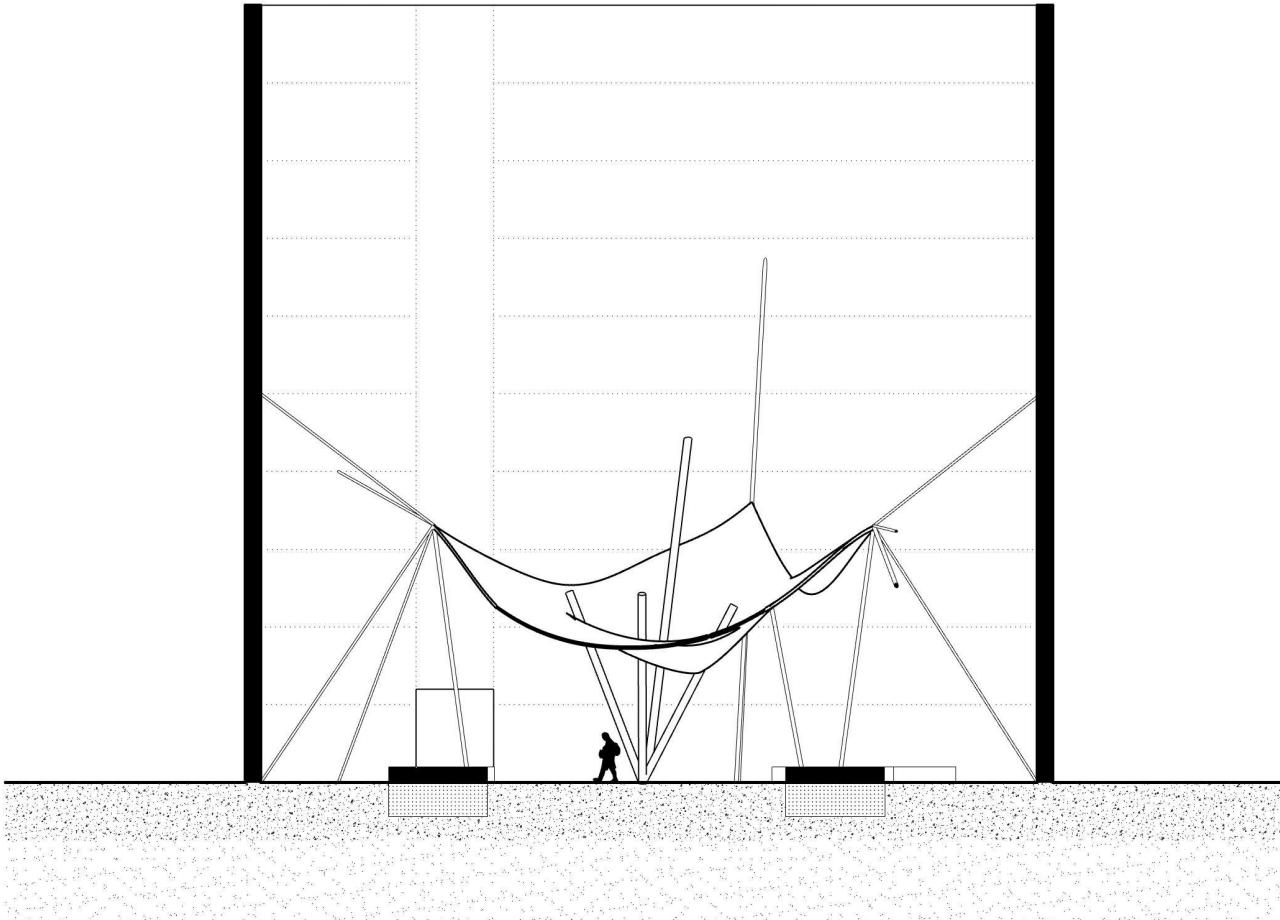


0

8

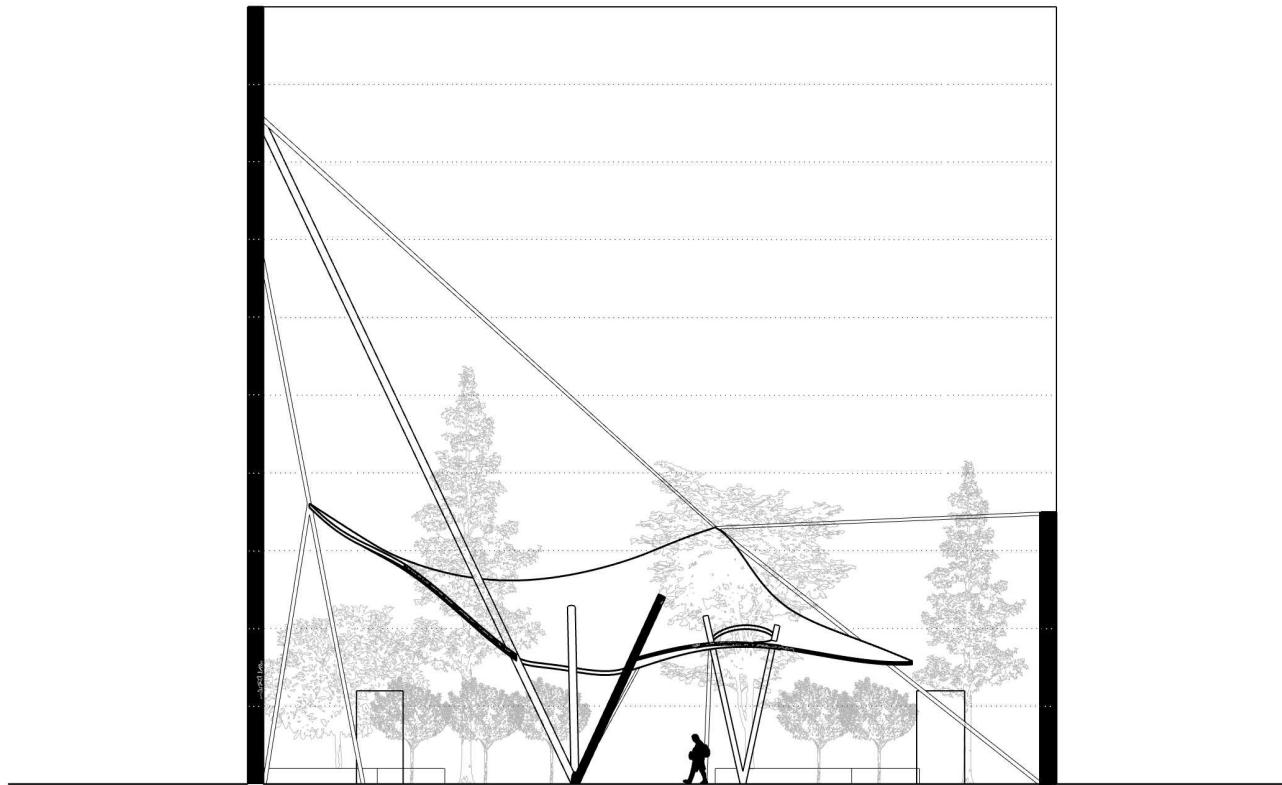
16

32



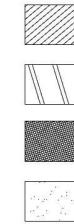
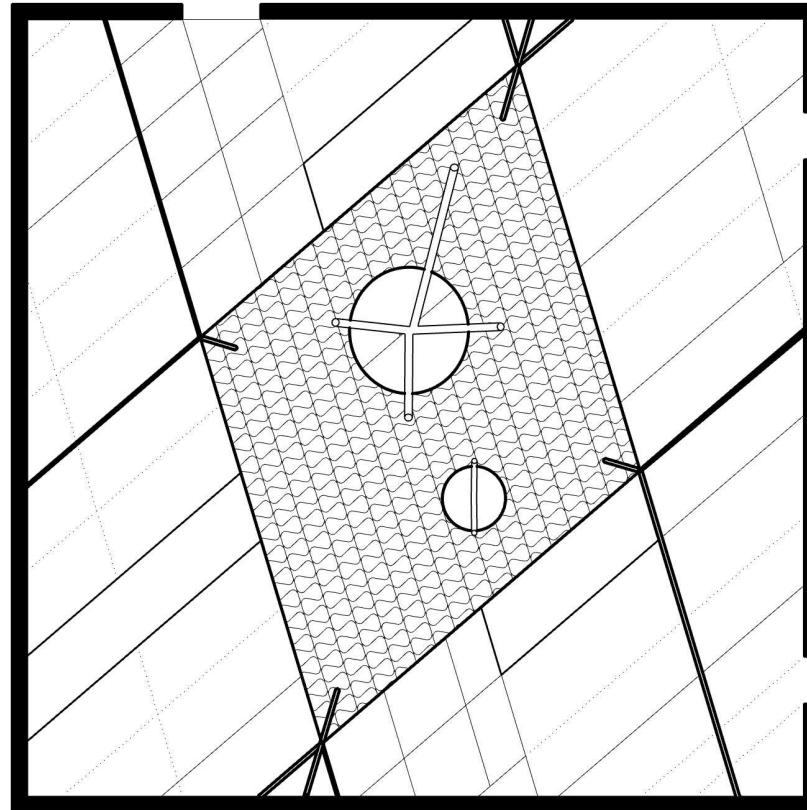
ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 8'-0"

0 4 8 16



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

0 4 8 16



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

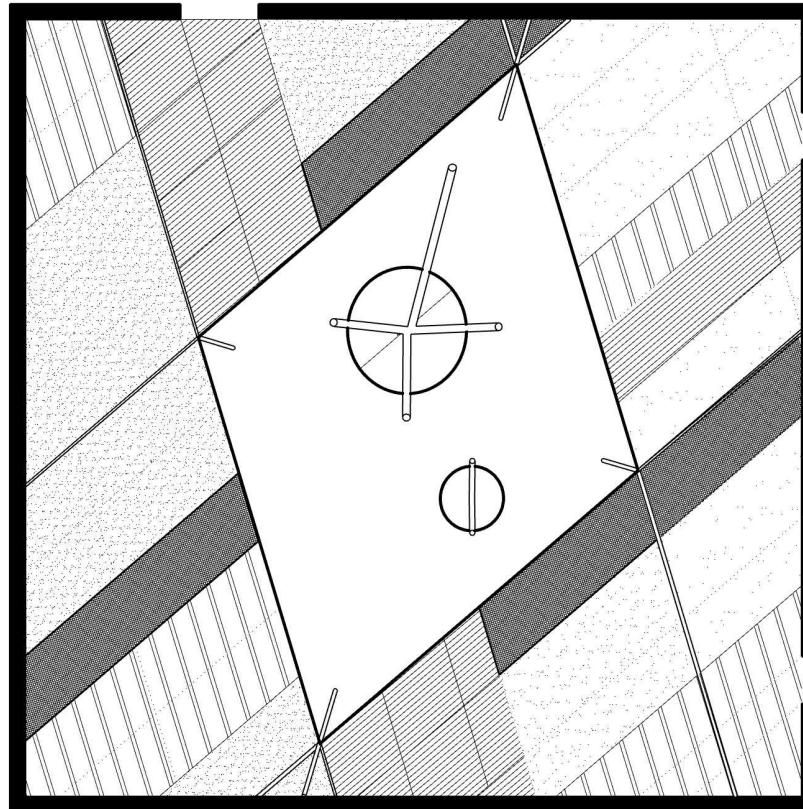


0

8

16

32



Pavement 1



Pavement 2



Water



Shrubs & Forest

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

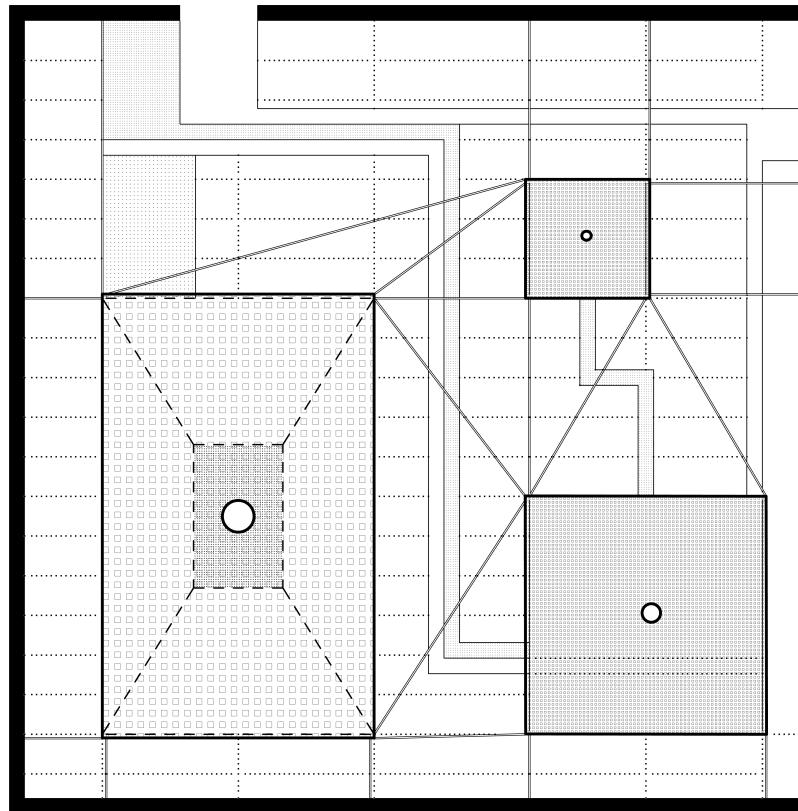


0

8

16

32



Hard surface



Soft surface



Water



Steel mesh



Porous steel panel

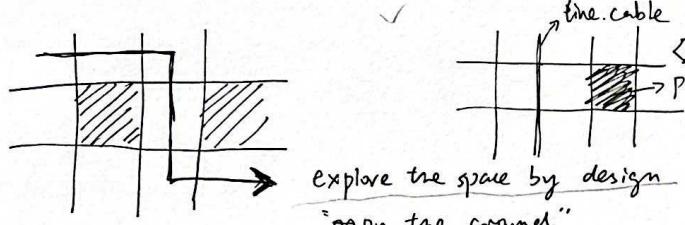
ENCLOSED SPACE PLAN  
SCALE: 1" = 16'-0"



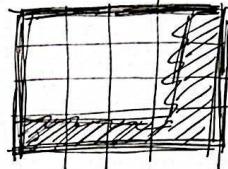
0 8 16 32

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

① Decide the plan layout (grid system)

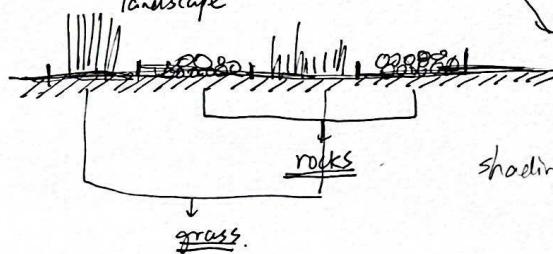


② Sunpath analysis → Decide where to put public activities (climate / aesthetic)



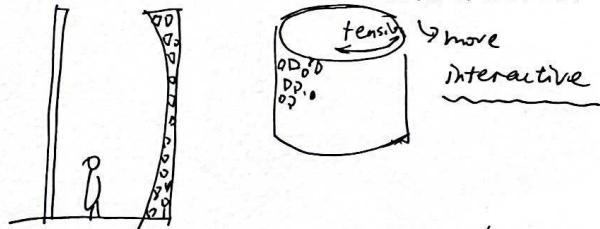
③ Research on steel-made furniture: Steel as [at separation elements]

"Corten steel" - edge conditions to divide species



also water features  
species need sun  
specials  
people need shade  
environment (sunpath)  
divide people's movement  
plant's movement  
water? evaporation

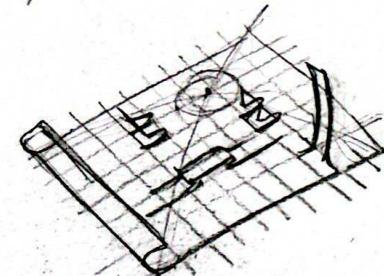
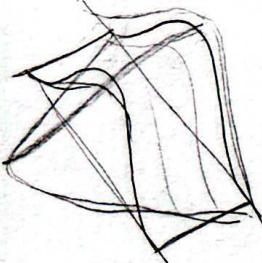
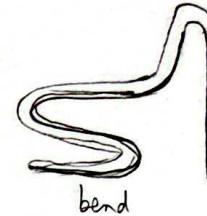
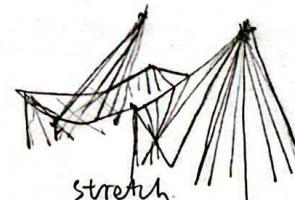
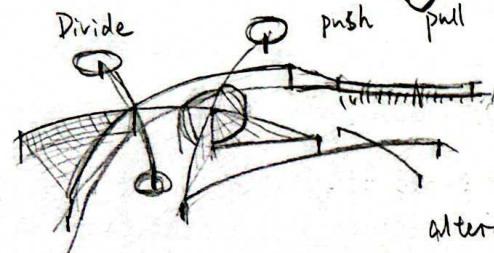
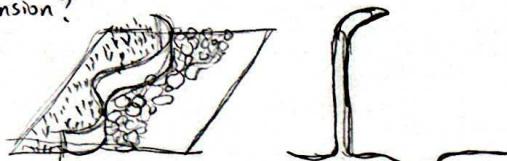
④ (Vertical elements.) ↳ replace column structure



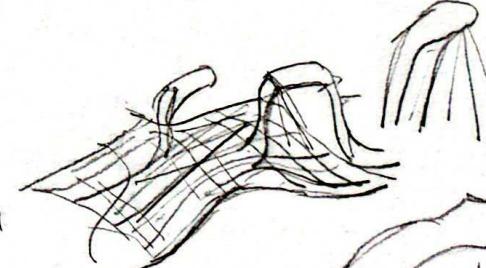
Research on ~~sun command~~'s design.  
Richard Serra.

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.

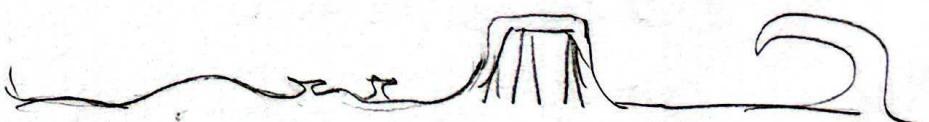
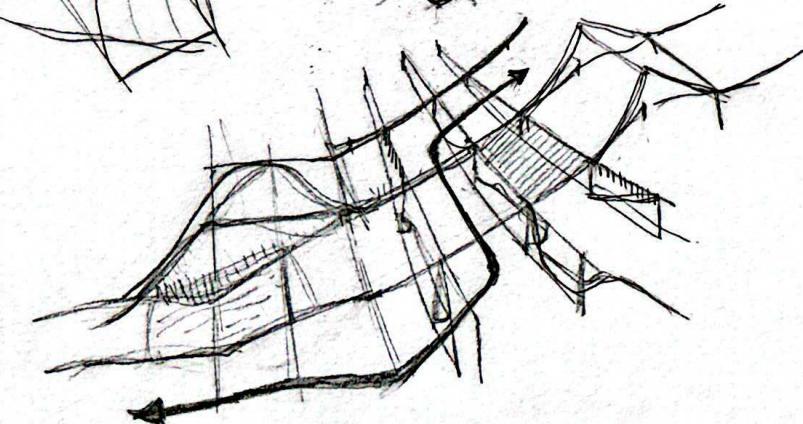
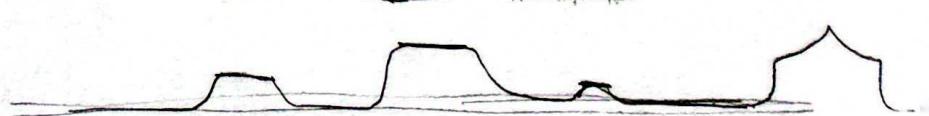
What is tension?



alternative 1. no grid whole surface as a steel mesh

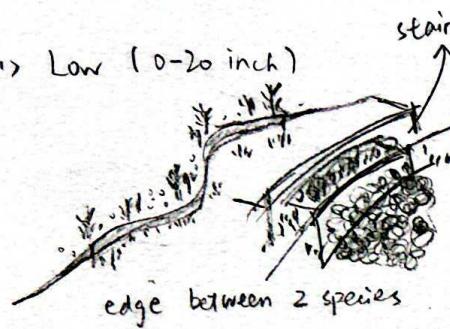


Alternative 3  
 topography.

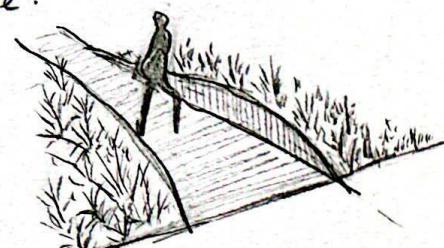


alternative 1: steel as division/separation components (separator), vertical

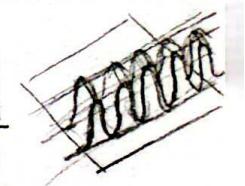
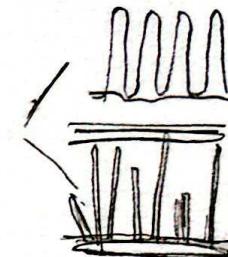
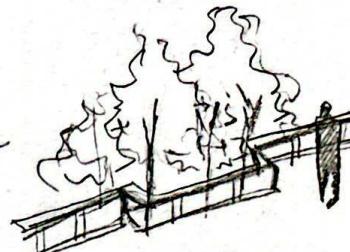
(1) Low (0-20 inch)



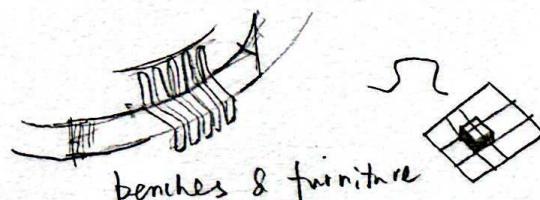
staircase.



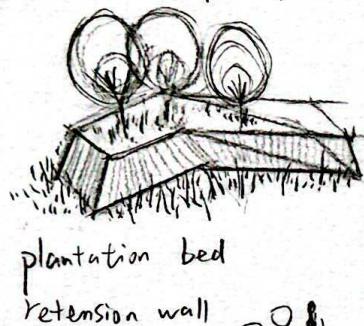
edge between 2 species



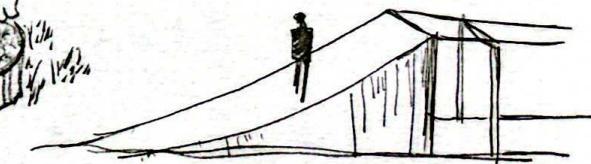
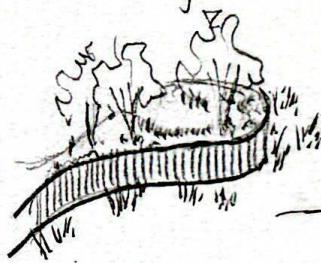
(2) Medium (20 inch - 10 feet).



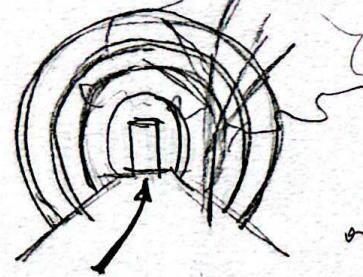
benches & furniture



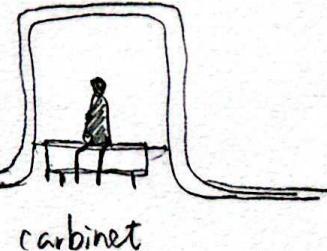
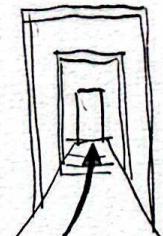
plantation bed  
retention wall



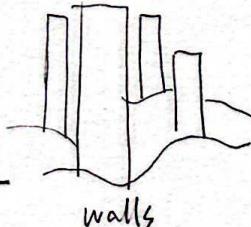
(3) High (10 feet ↑)



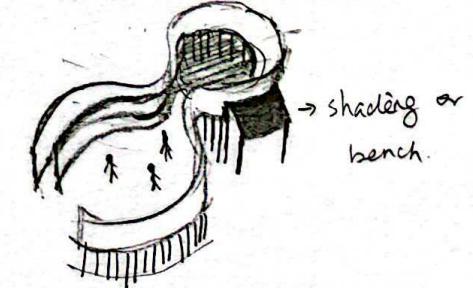
doors & corridors  
with shading elements



cabinet

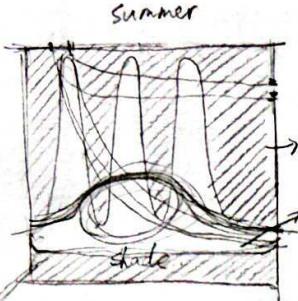
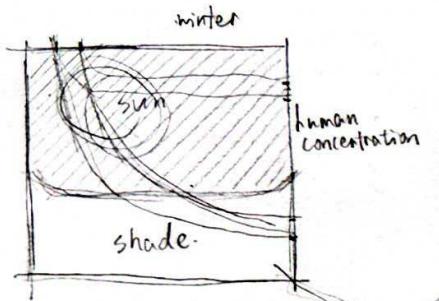


walls



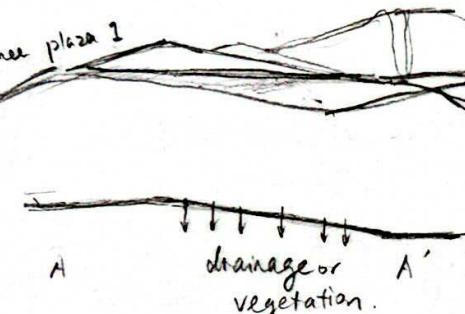
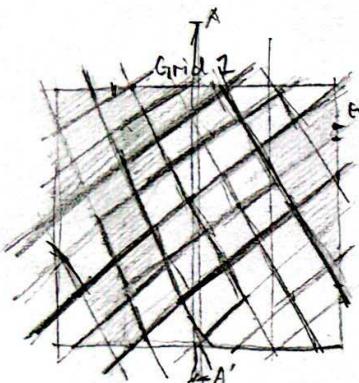
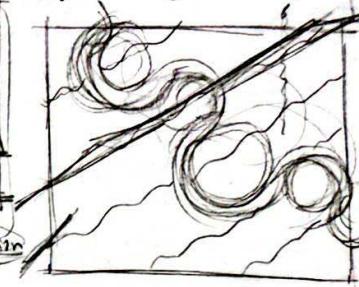
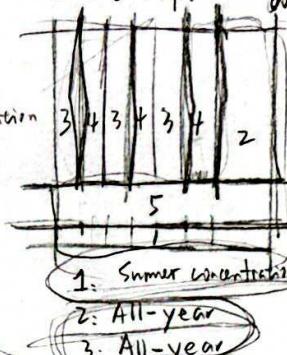
→ shading or  
bench.

没关系，你以前不是没设计过，do your best 好吗？

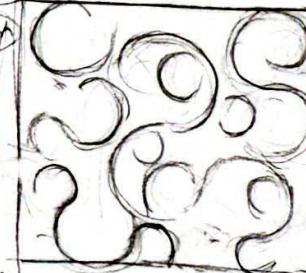


no extra needs for shading

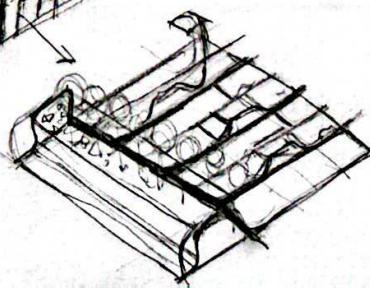
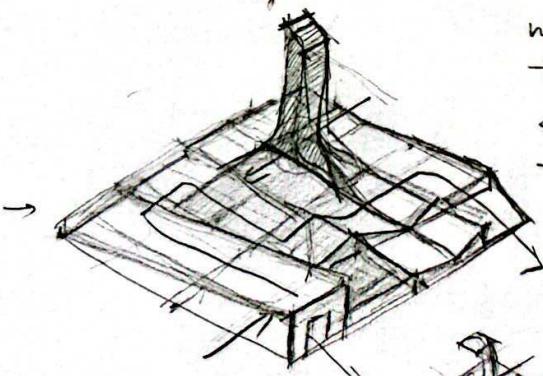
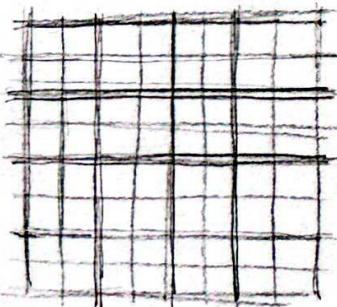
Zoning map: overlay the grids: (pedestrian+vege)



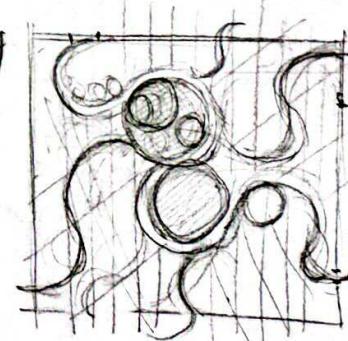
- 1: Summer concentration
- 2: All-year
- 3: All-year
- 4: Winter concentration
- 5: no concentration  
cold winter.  
+ hot summer  
→ tree planting X  
= add a steel roof



Grid 2



shaded ~  
→ add a roof

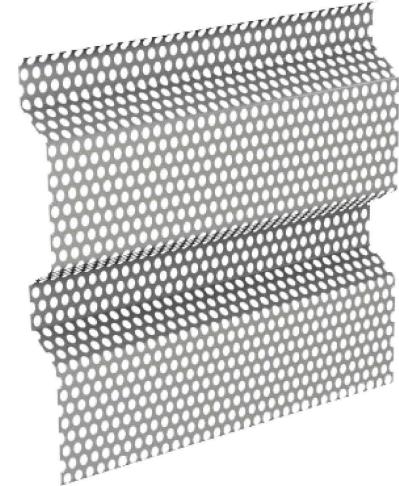




Corten steel



Stainless steel wire rope



Perforated steel



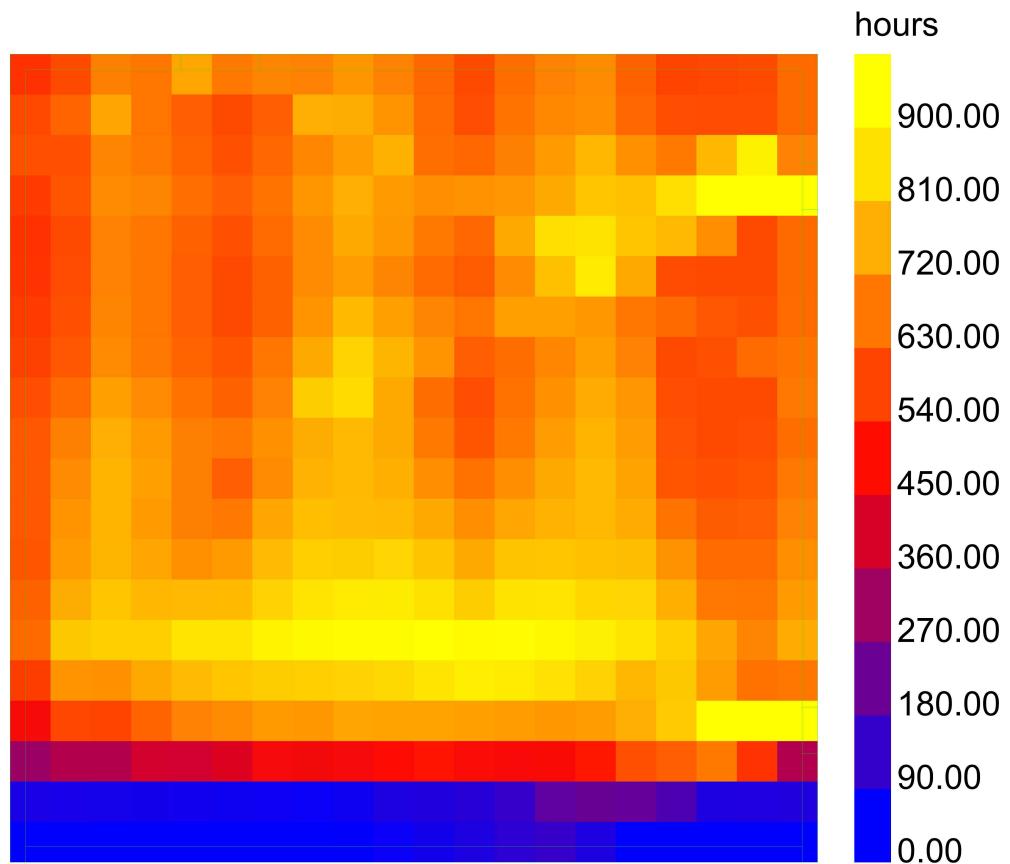
Steel as edge conditions



Steel as a malleable surface and interface



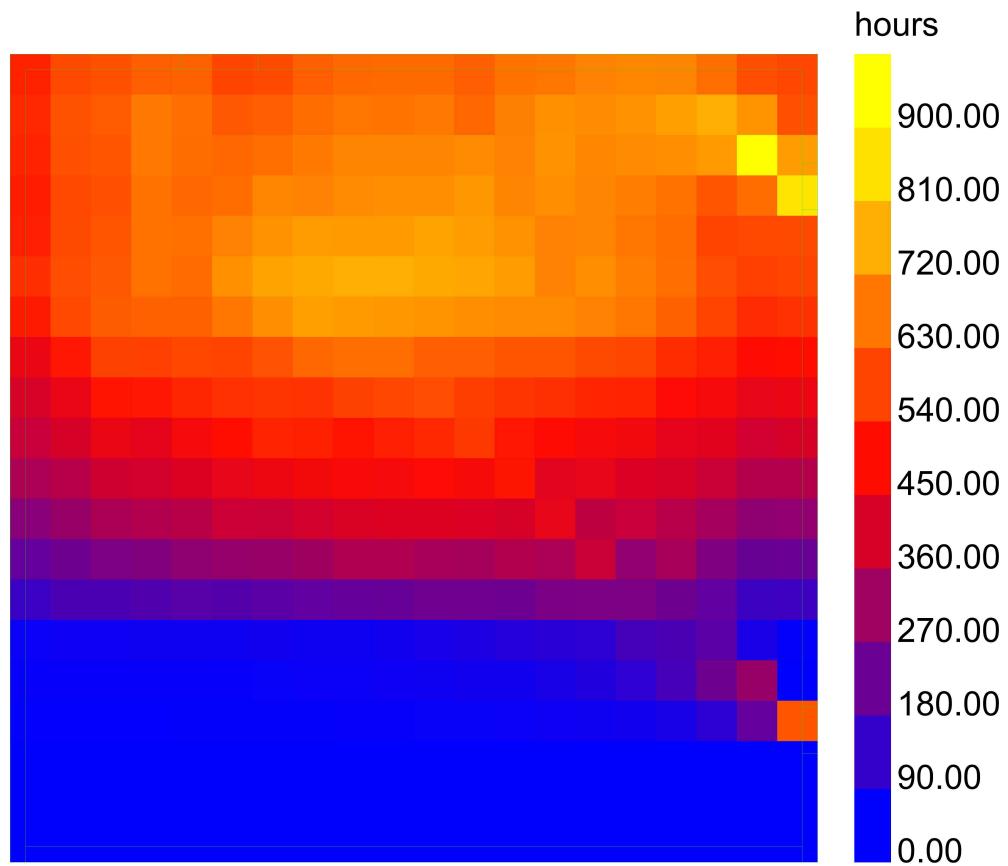
Steel as a shading infrastructure



Direct Sun Hours

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

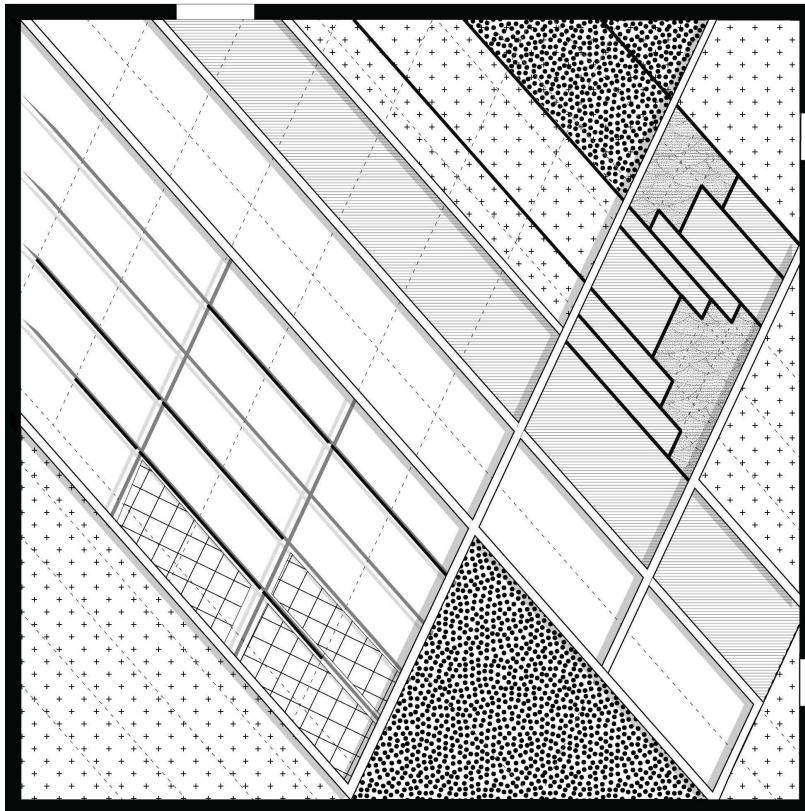




Direct Sun Hours

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



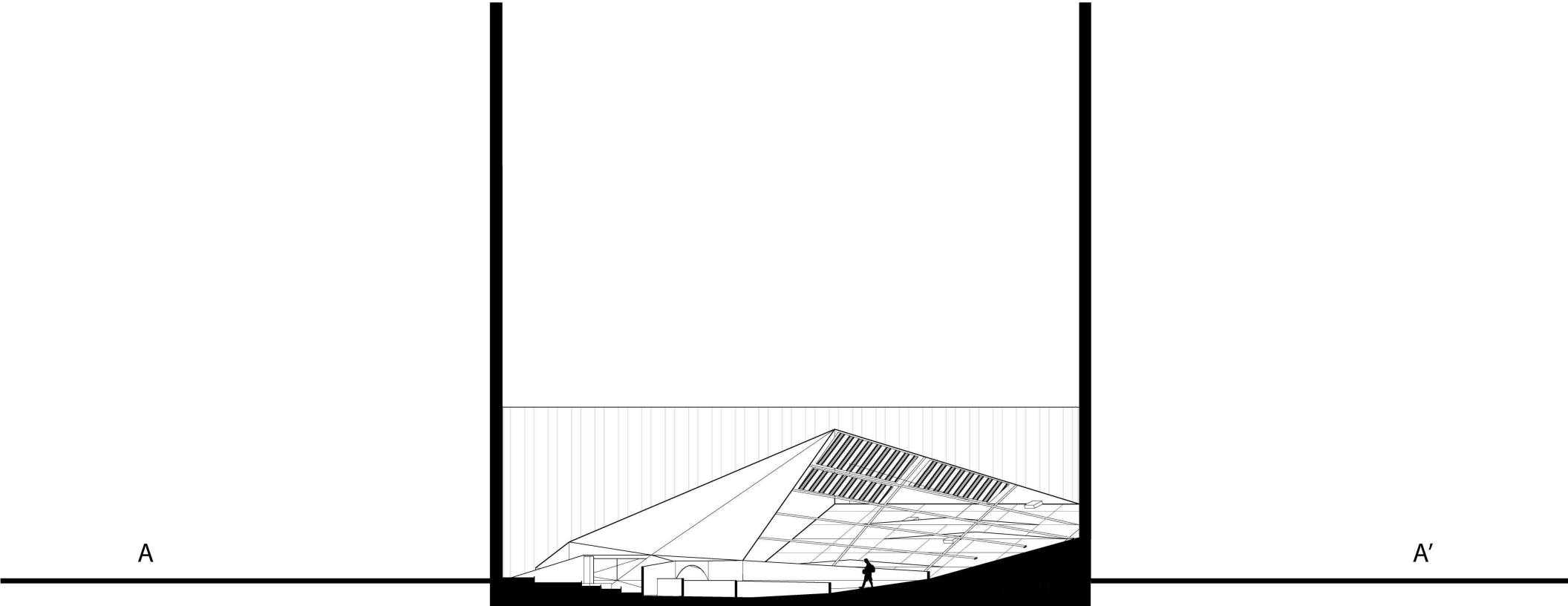


- Stainless steel wire rope
- Steel retaining walls & planters
- Steel wall
- Perforated steel panel
- Forest
- Lawn
- Rocks
- Walkway

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



32

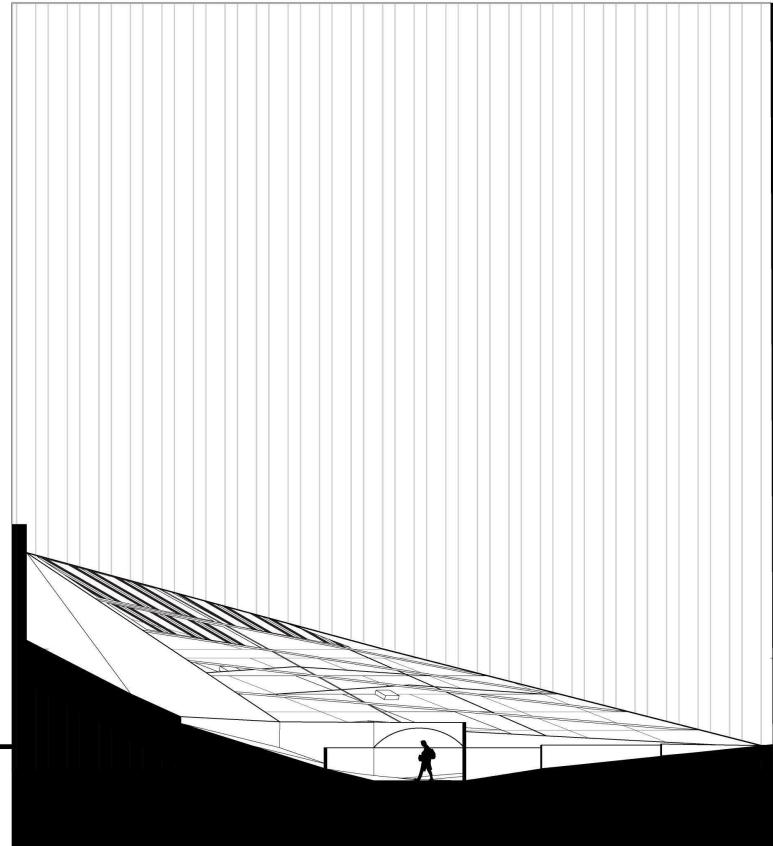


ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1'-0"-0"



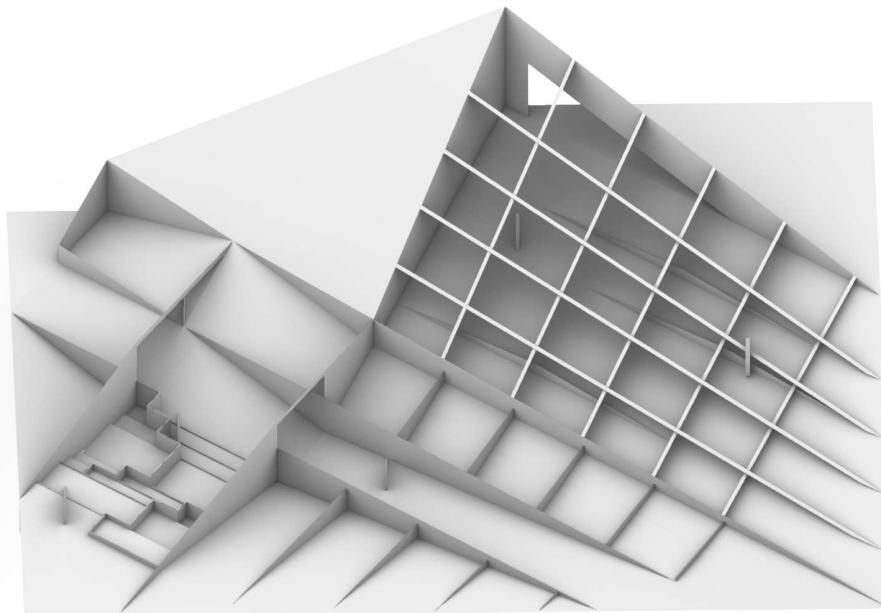
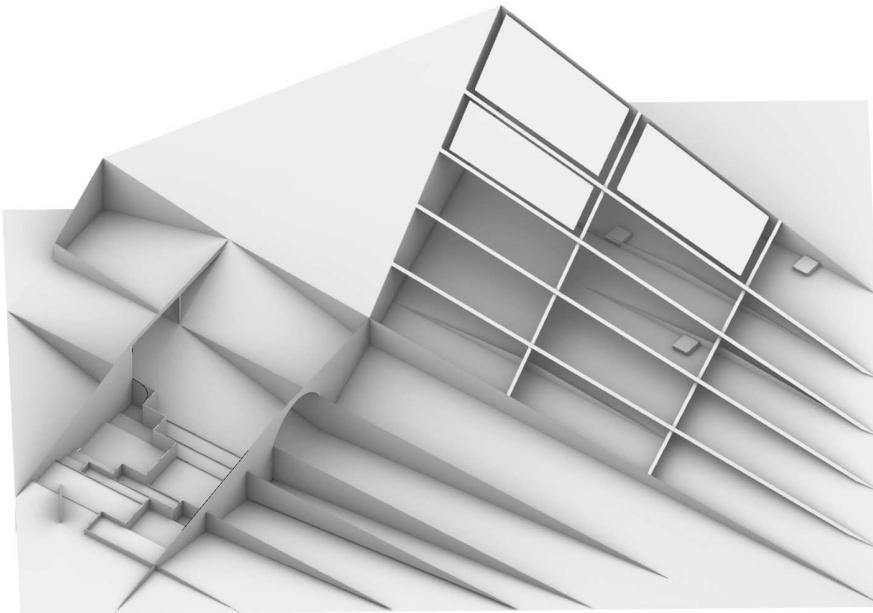
B

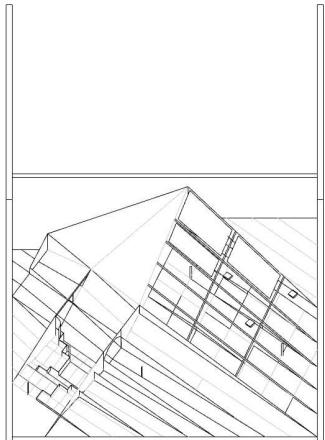
B'



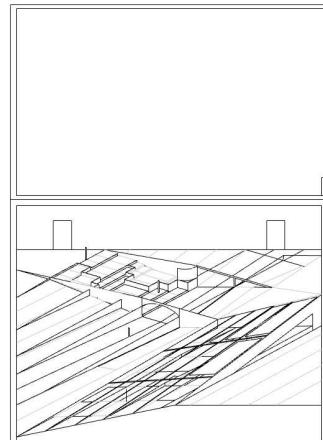
ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 6'-0"



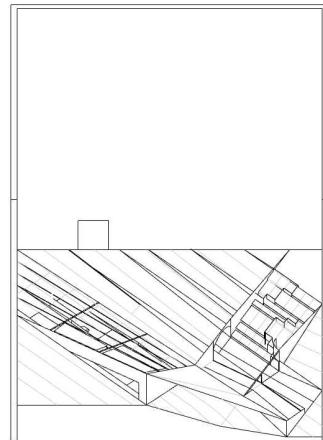




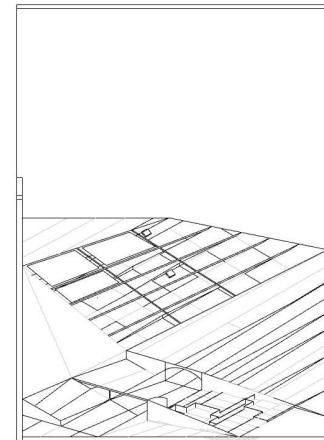
North



West

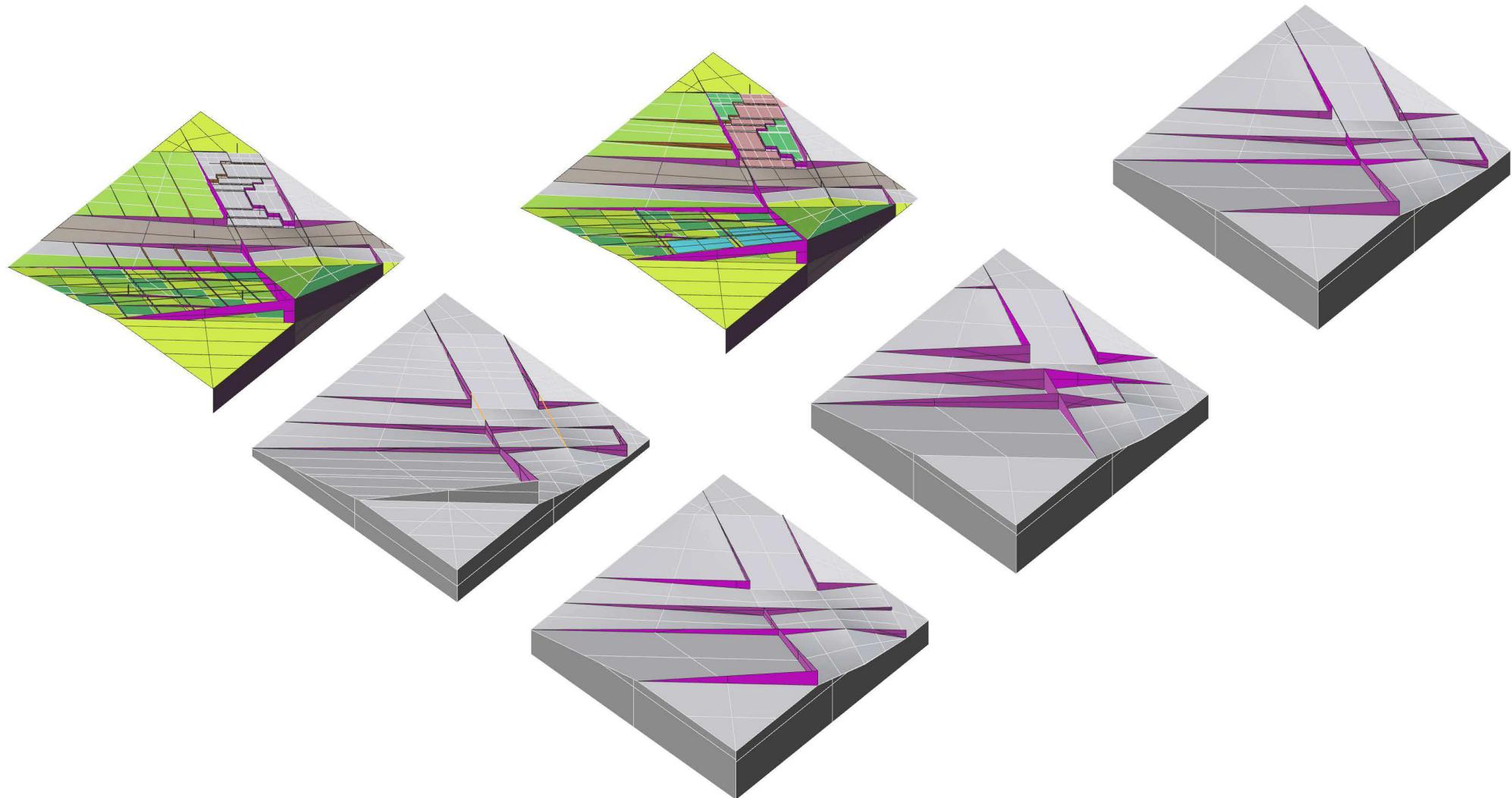


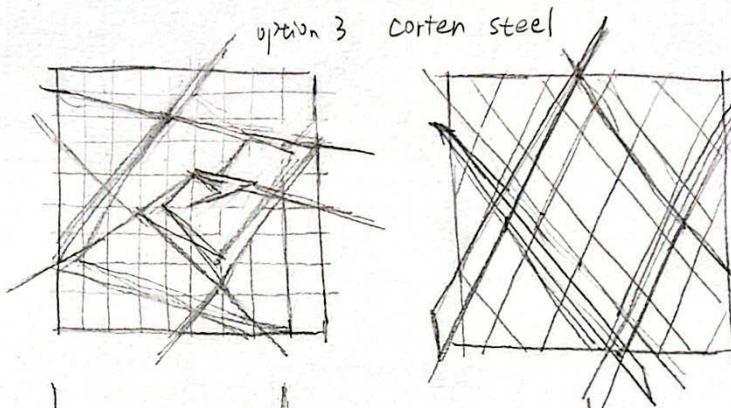
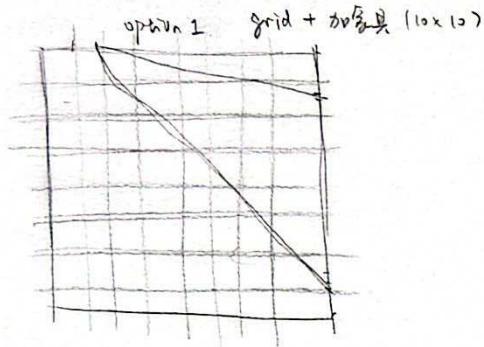
South



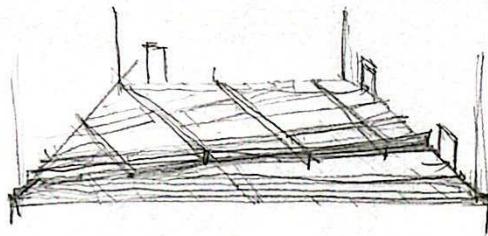
East

# Form test

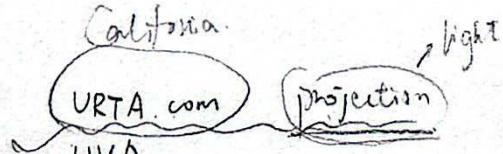




option 2. canopy on the floor



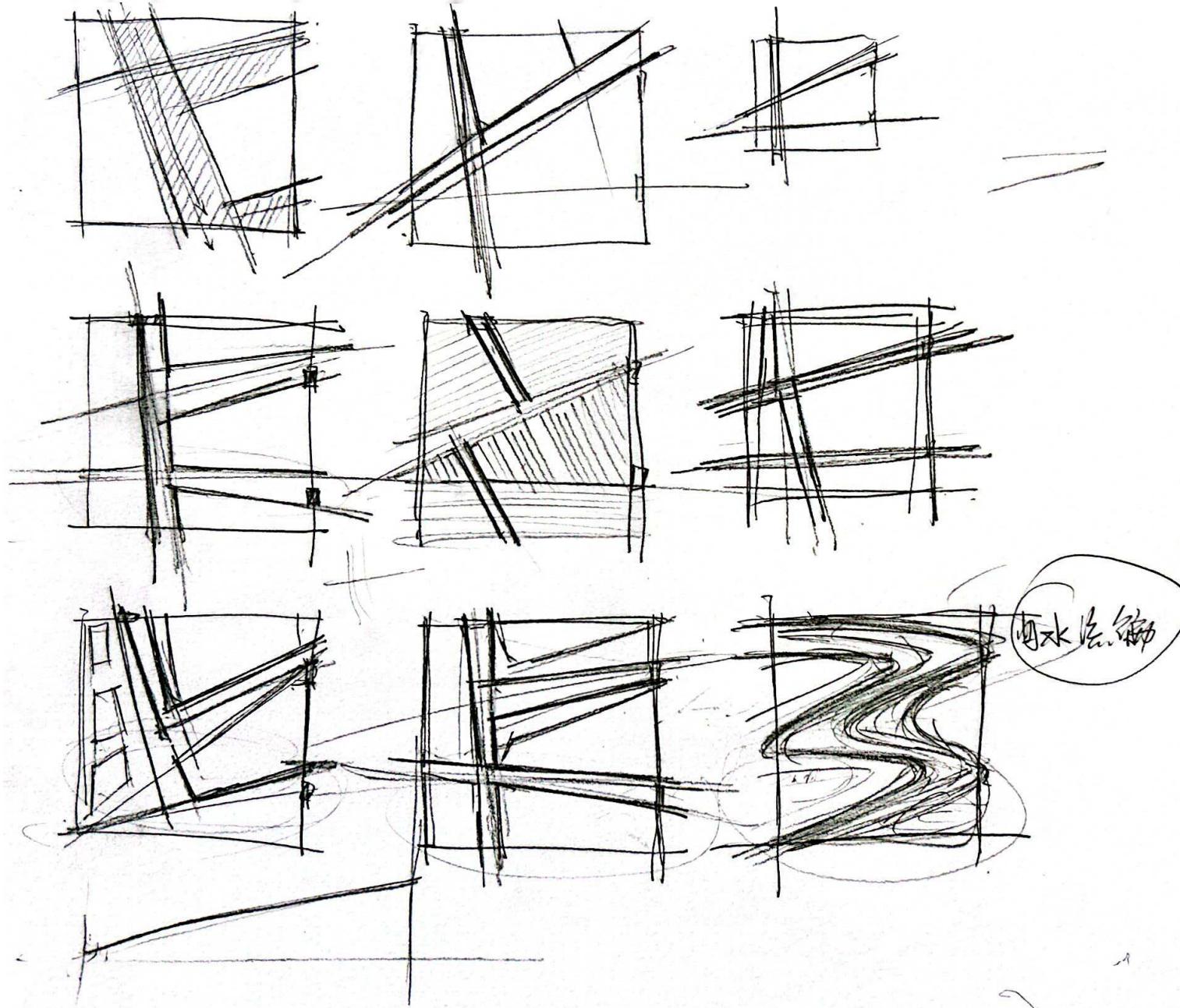
还没放椅子，没放曲面的 steel

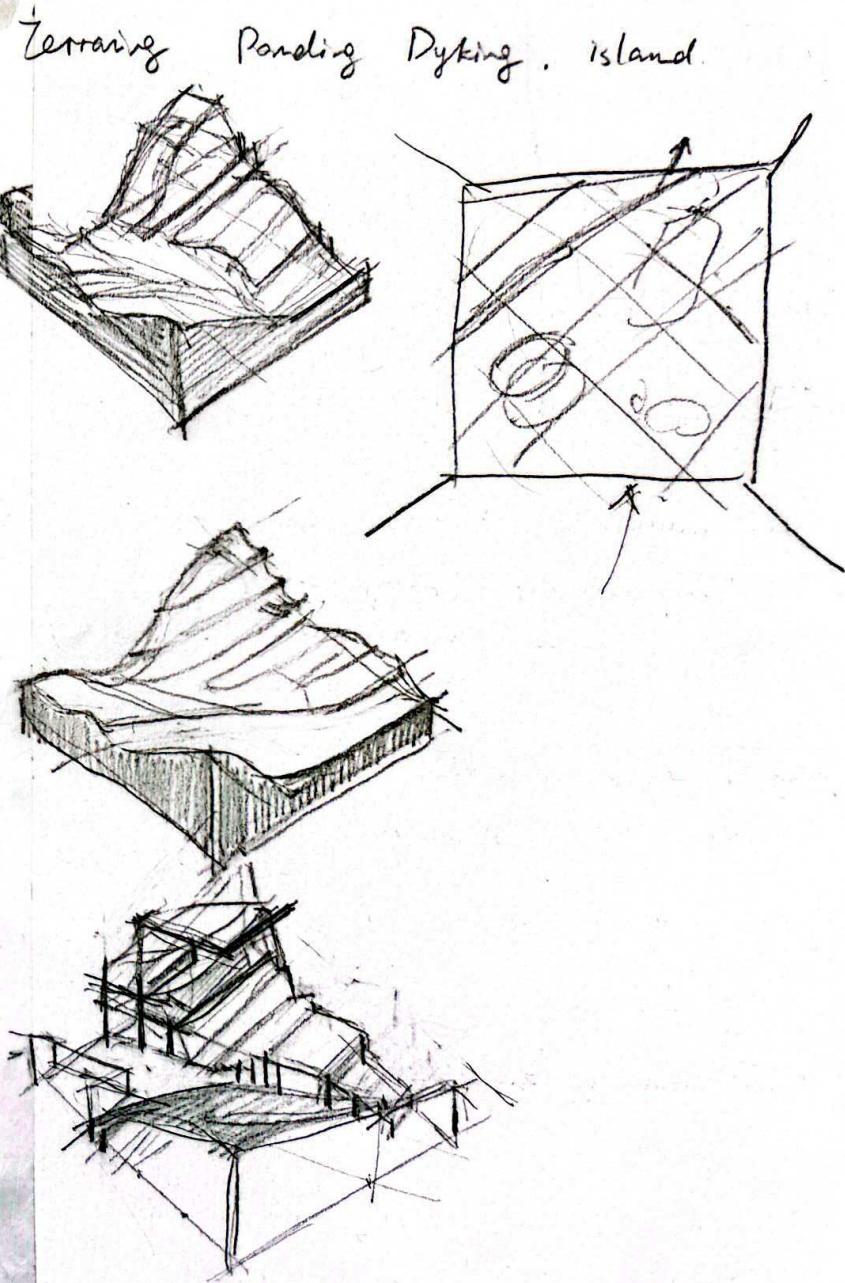
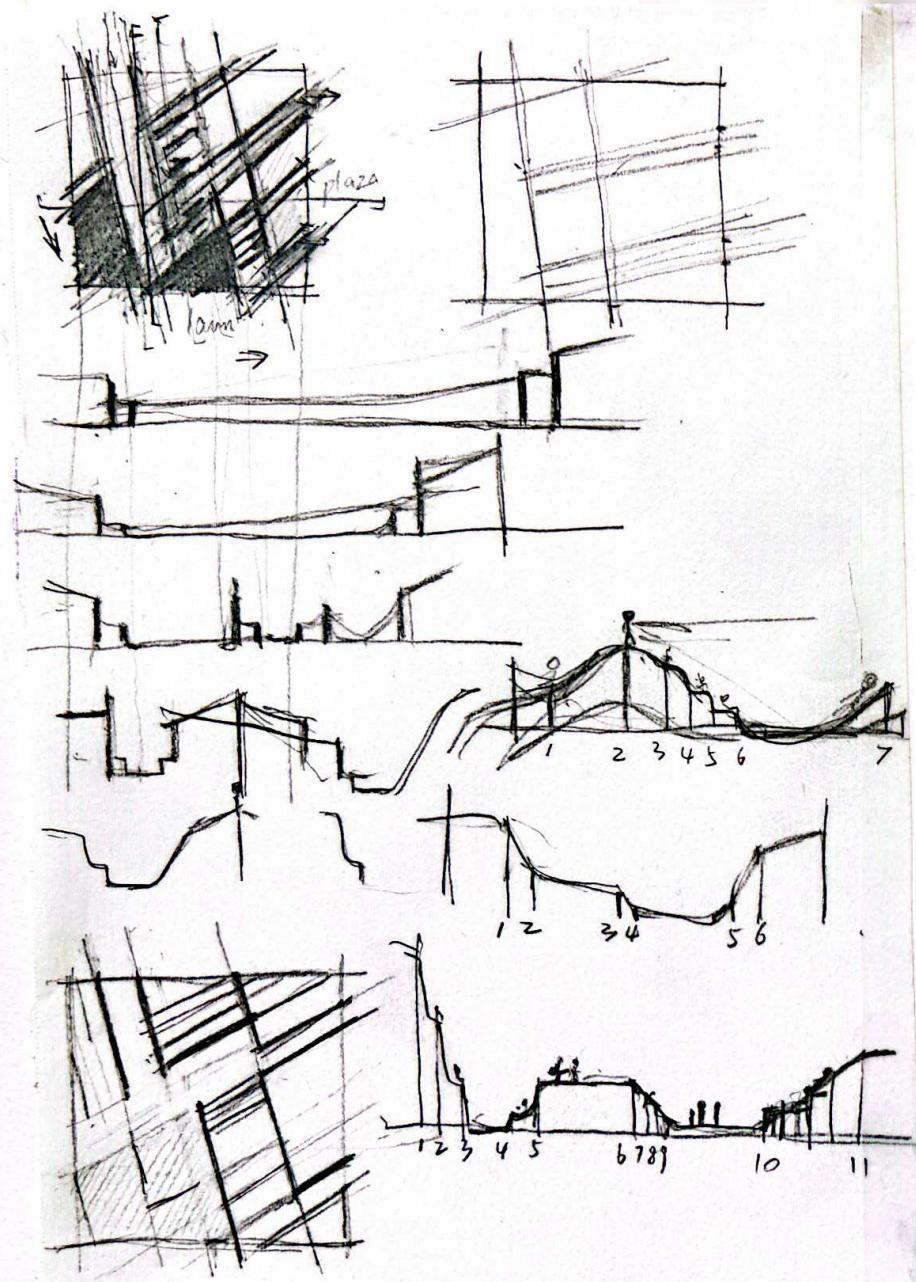


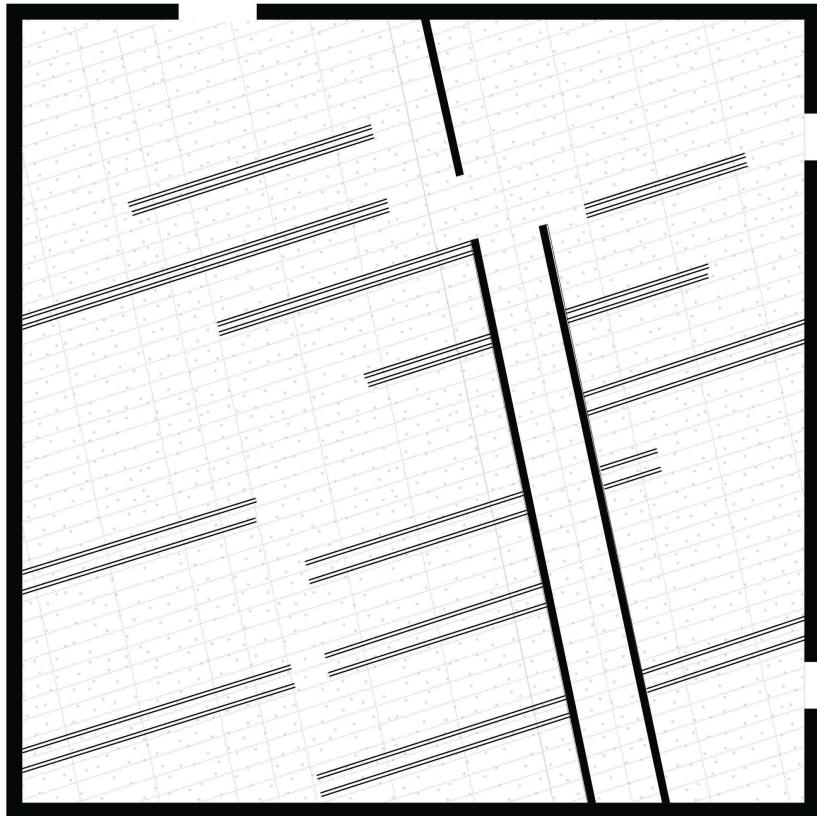
Boston Uni.

University of  
Connecticut

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

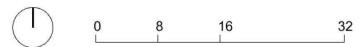




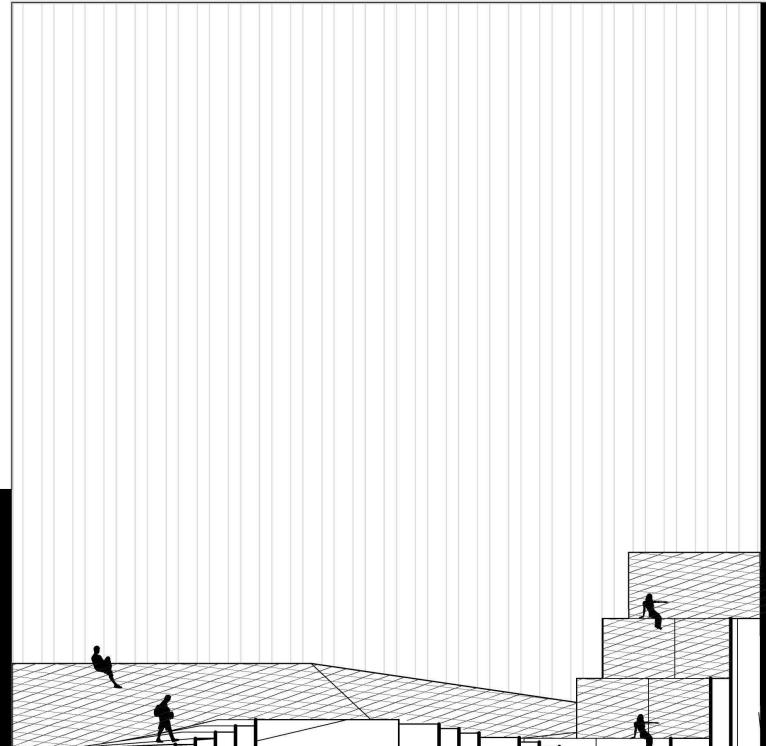


- Stainless steel wire rope
- Steel wall
- [+ -] Lawn

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



B



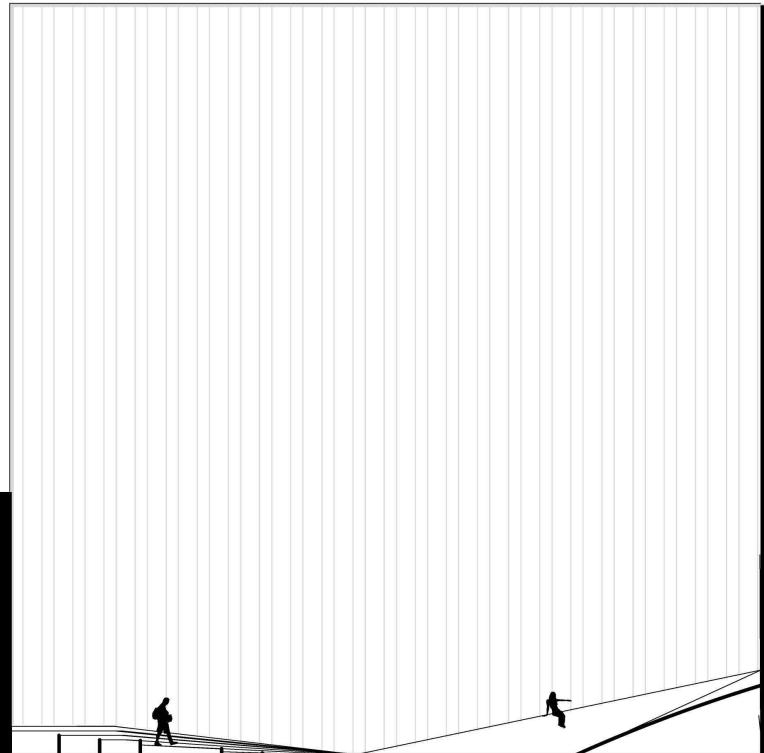
B'

ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1"- 6'0"

0 4 8 16

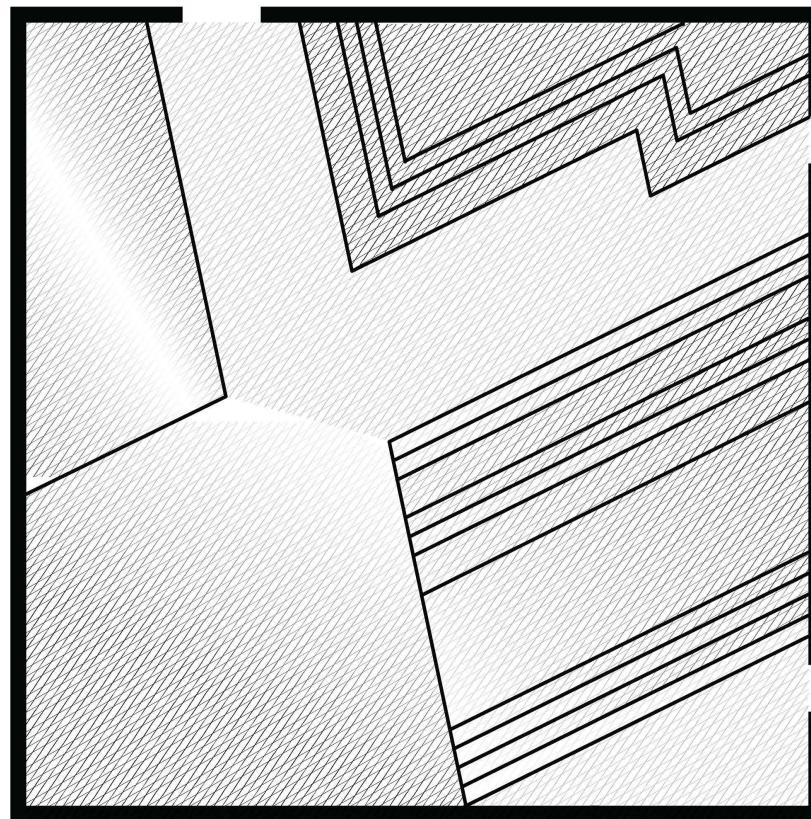
B

B'



ENCLOSED SPACE  
SECTION-ELEVATION 1  
SCALE: 1" = 6'-0"





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

