DISORDER POTENTIALS
// a coptic cemetery in Manshiyet Nasser

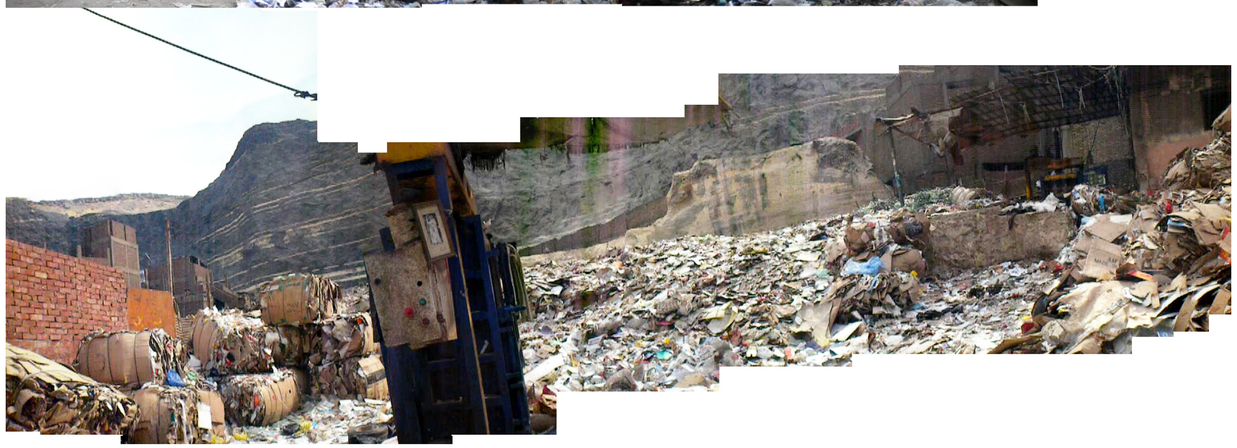
studio border conditions // INVISIBLE CITY / Cairo
october 2010
Melina Mezari

invisible order

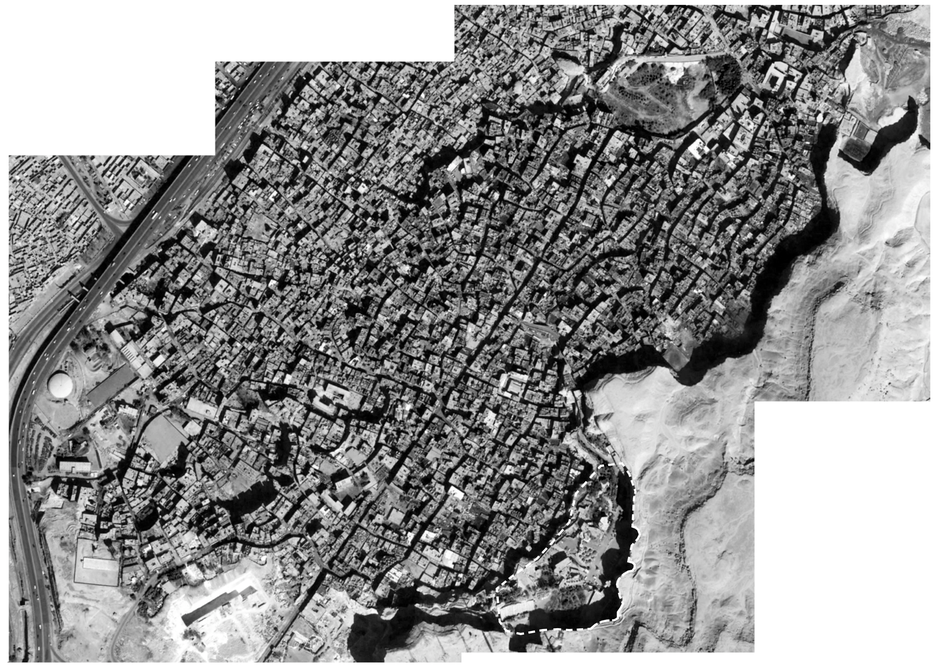
“Disorder is not the absence of all order, but rather the clash of uncoordinated orders.
It applies suitably to physical states in which a multiplicity of elements pursue mostly independent paths, but, for short times, come into physical connection”

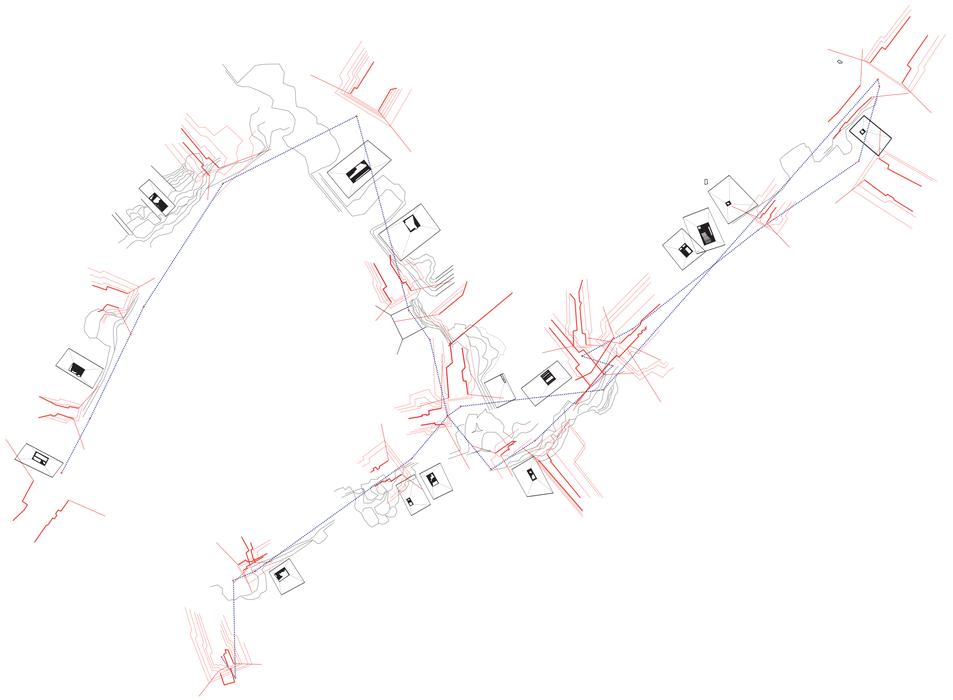
“Arrangements are called orderly, when an observer or listener can grasp their overall structure and the ramification of the structure in some detail.
(...) one can understand the interrelation of the whole and its parts, as well as the hierarchy of importance and power by which some structural features are dominant, others subordinate”

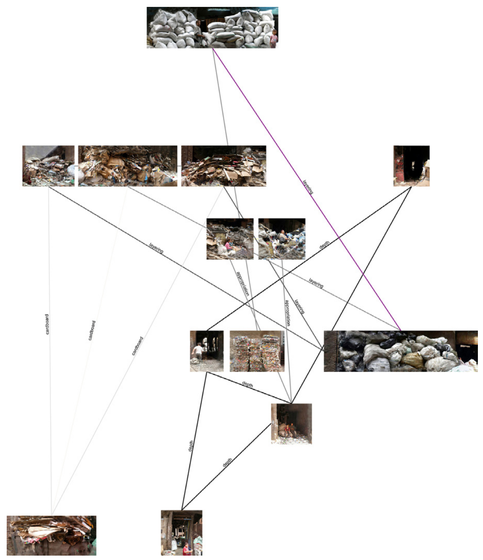
Rudolf Arnheim, “Entropy and art: an essay on Disorder and Order”



/// level 1 / urban

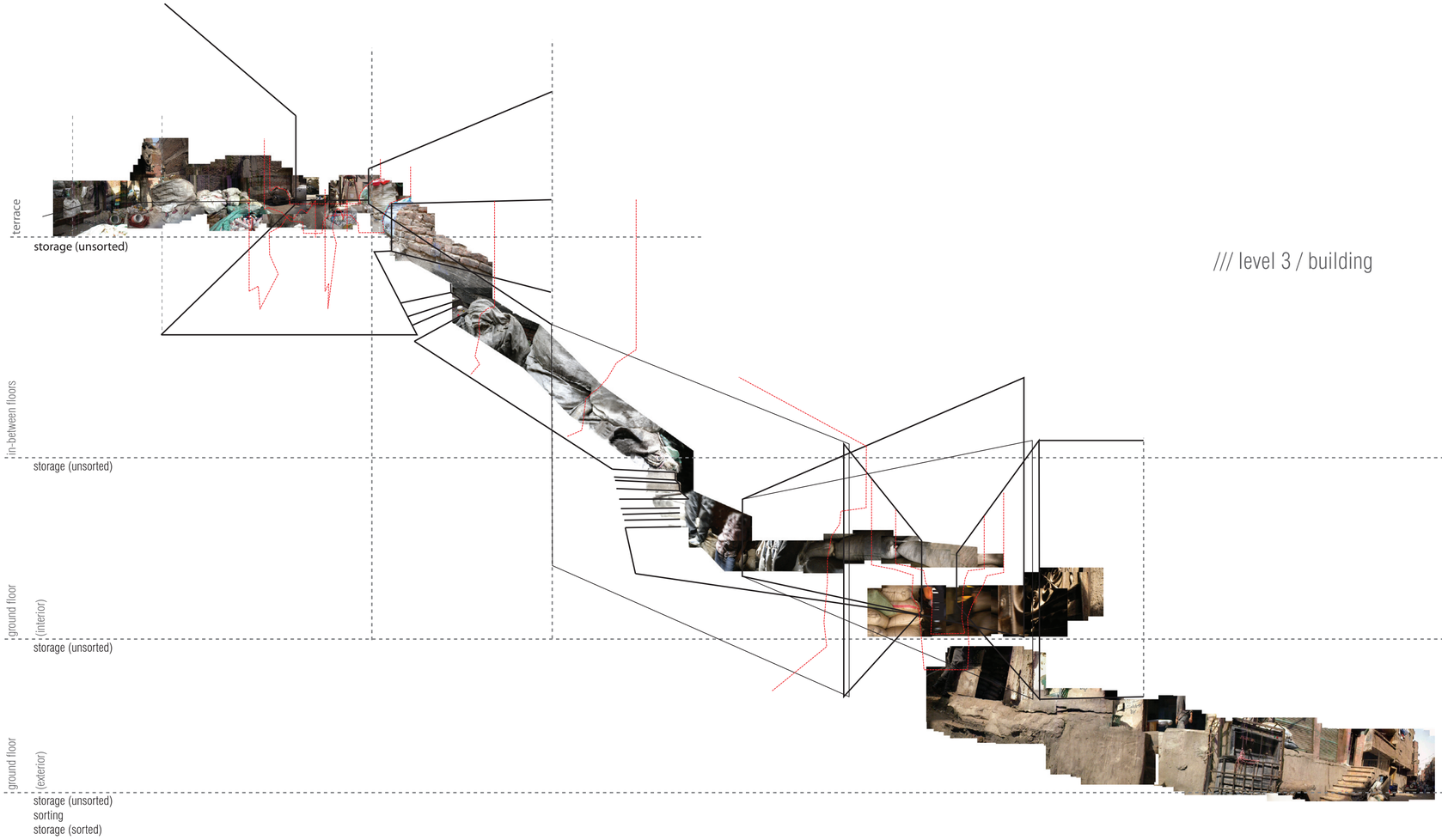






/// level 2 / street

Garbage City as a biotope:
components / relations
obstacles / vistas



/// level 3 / building

/ / / / / / / 0 [notion of the invisible]

/ / / / / / / 1 [case study: Garbage city]

/ / / / / / / 2 [mapping]

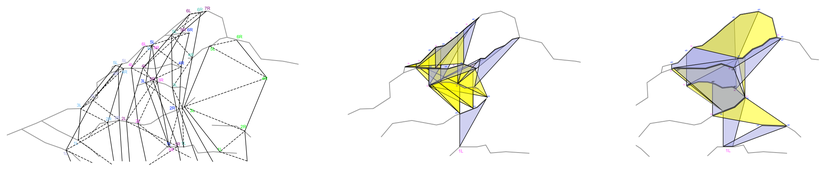
deformation / displacement as forms of disorder

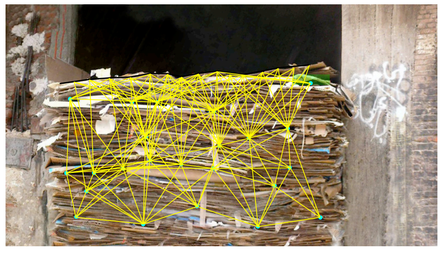
/ / / / / / / 3 [choice of site / program]

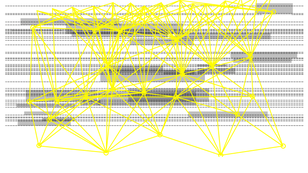
/ / / / / / / 4 [transcription of diagrams / application of principles in the design]

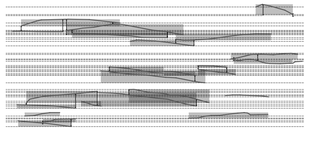
/ / / / / / / 5 [final design]

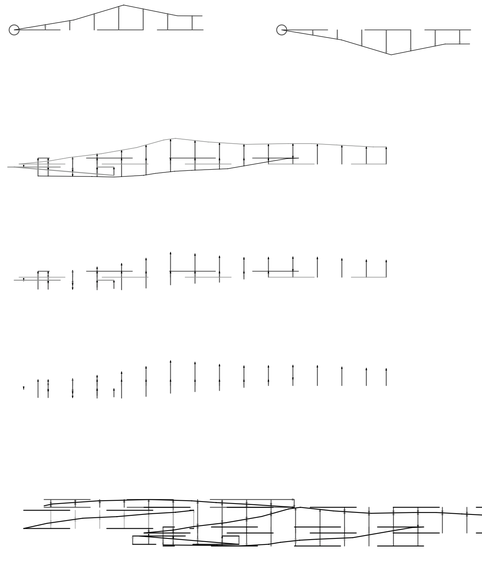
climbing diagrams

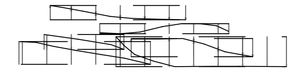


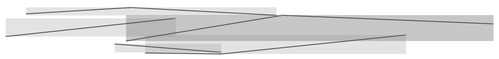


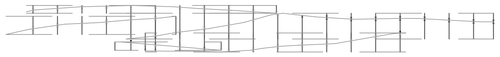


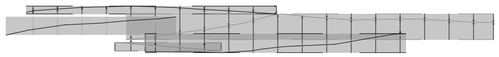


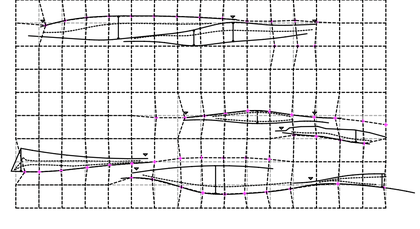




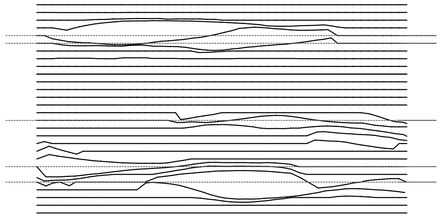




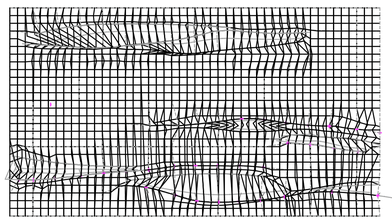


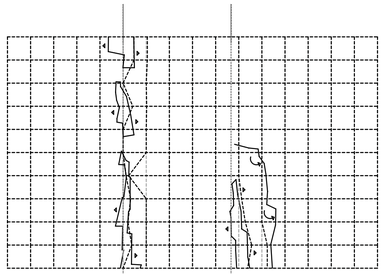


grid deformation

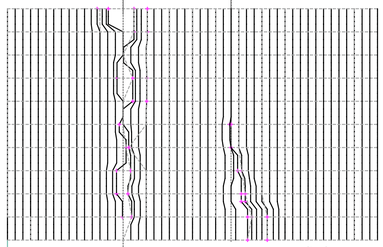


deformation z

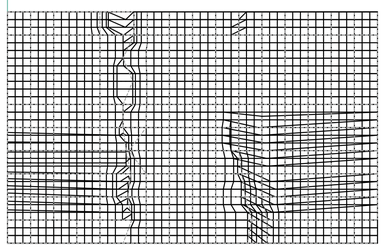


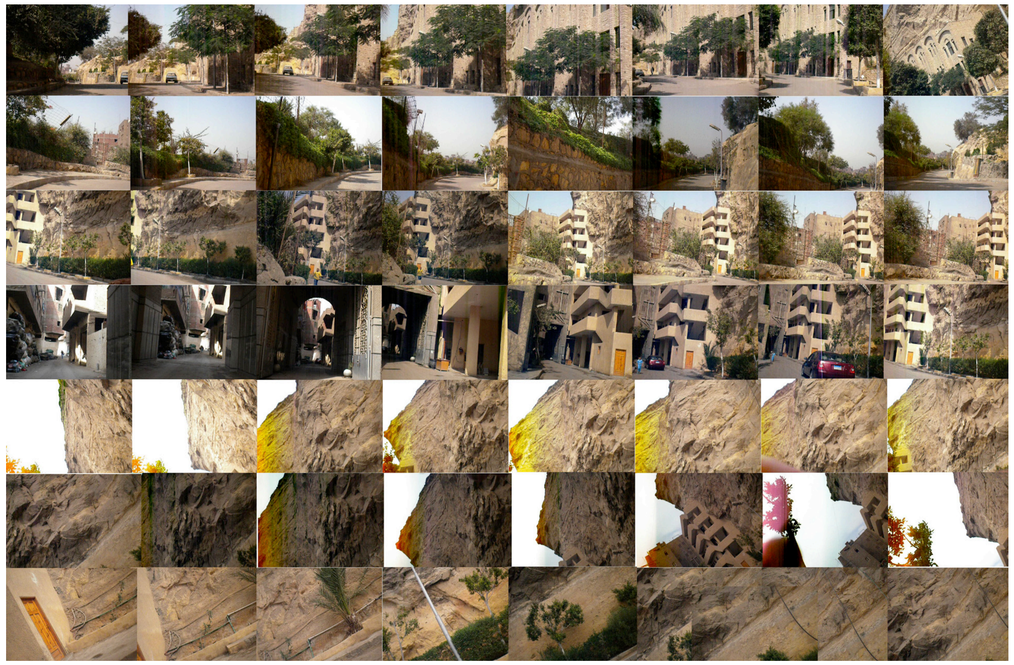


grid deformation



displacement x





site: cliff front (vertical border)

principles: bridging two levels (top-bottom)
altered landscape

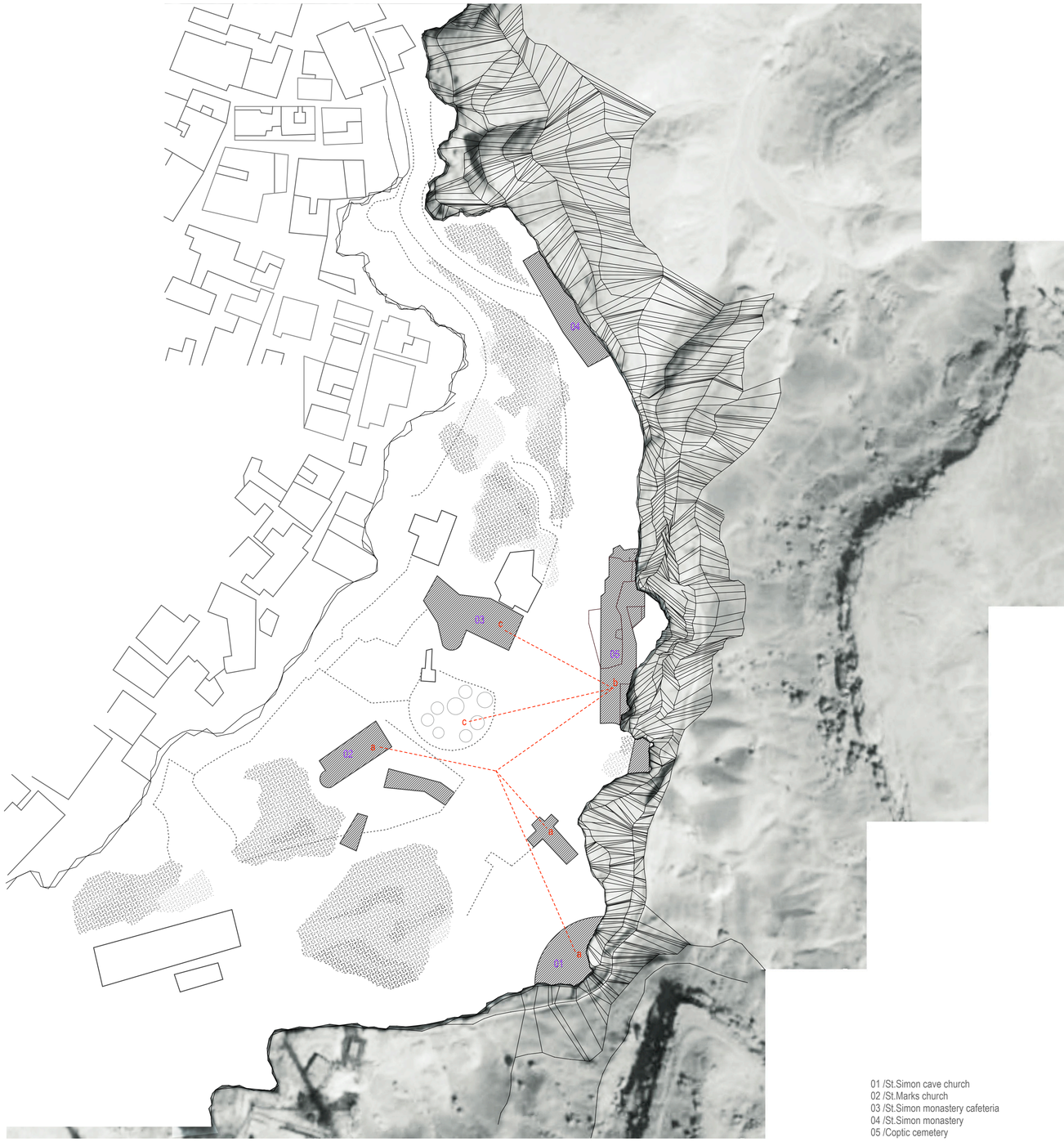
new border between the cliff and public space:
creation of in-between space

layered structure-repetition/stacking of units

>>> program: vertically developed cemetery

ceremonial process

a/church ceremony b/burial process c/concentration for meal or coffee



01 /St.Simon cave church
02 /St.Marks church
03 /St.Simon monastery cafeteria
04 /St.Simon monastery
05 /Coptic cemetery

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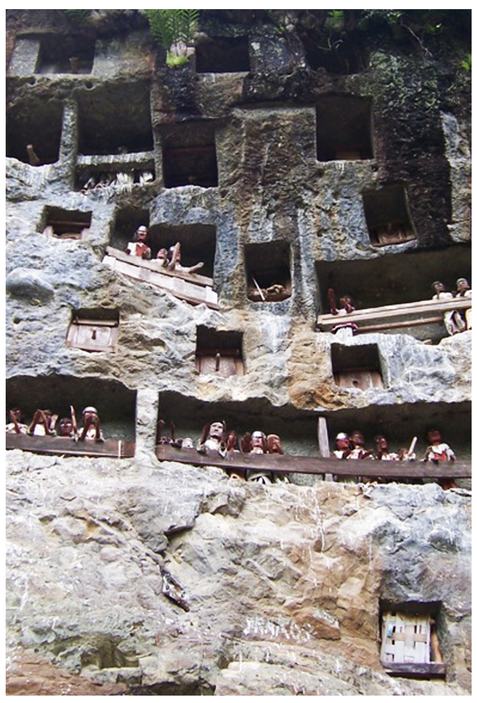
Toraja cave graves

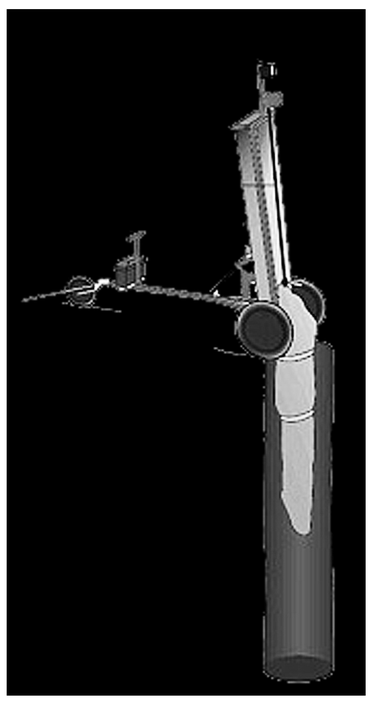
System Lab / The Last House

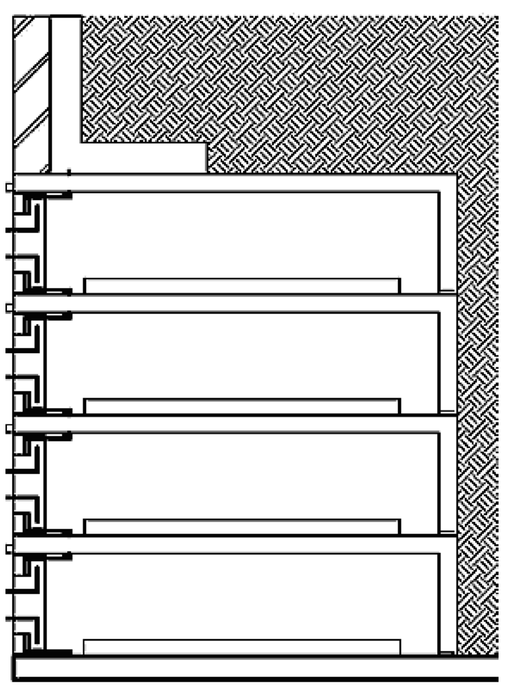
Memorial Necrópole Ecumênica III / Santos, Brazil

Upright Burials

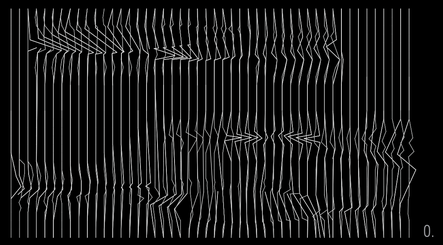
“Tomb Walls” /South African patent (2003)







densities-sparsities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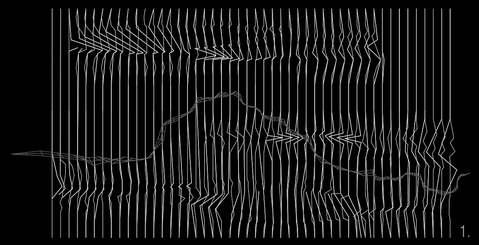
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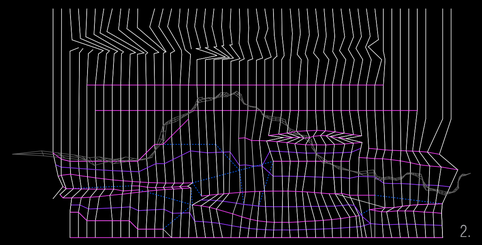
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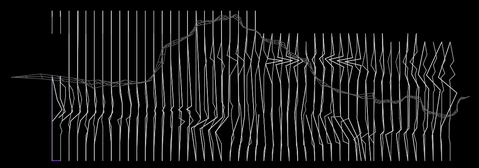
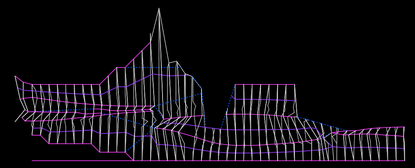
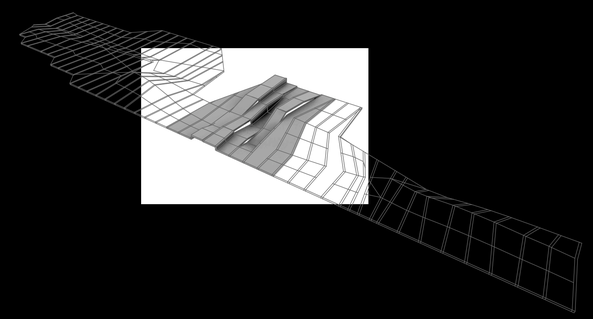




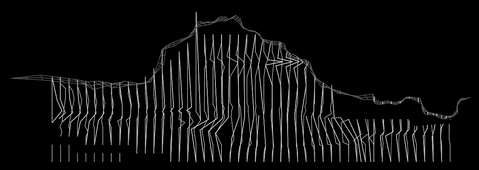


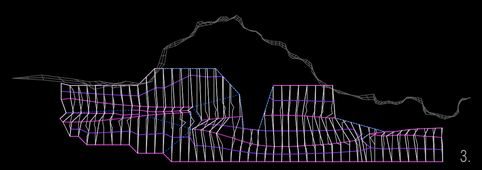
0. initial diagram [deformation / depth]
grid deformation

1. application of depth-diagram on site.
[cliff's top view "curve" coincides with the deformed element's curve -image on which the duagram is based]

2. contours for trimming
[in order to define the route, the graves, the "pockets" variations between floors]

3. final shape

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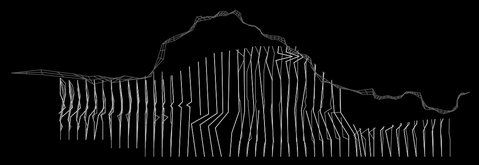
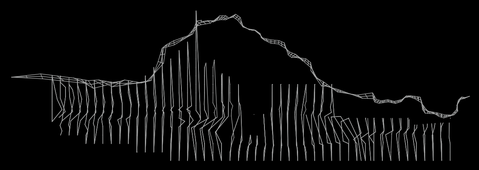
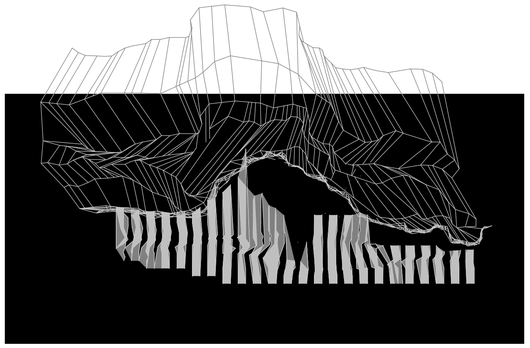
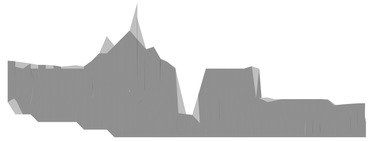
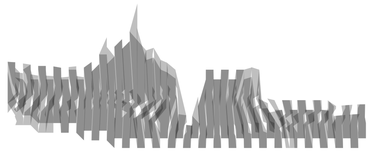
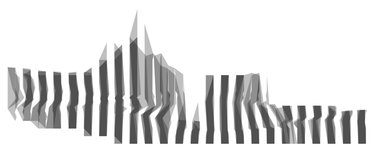


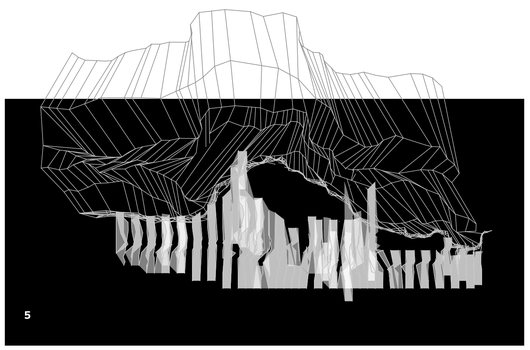


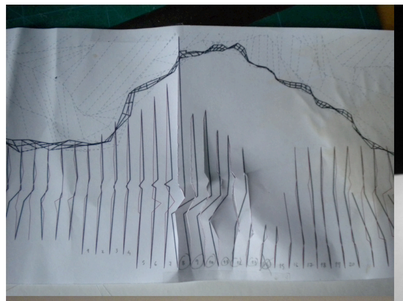


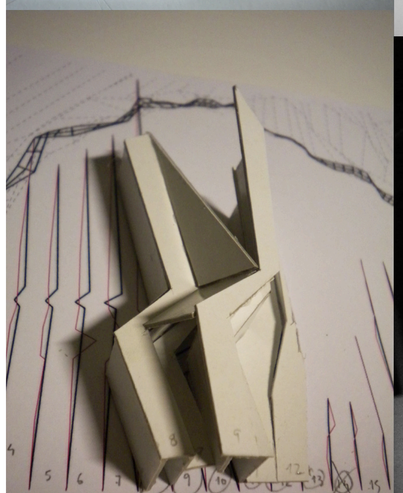


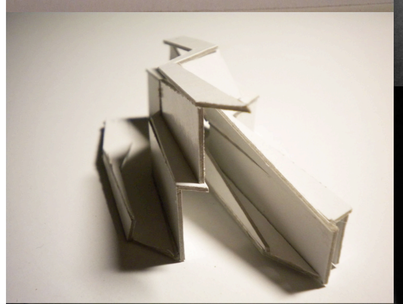


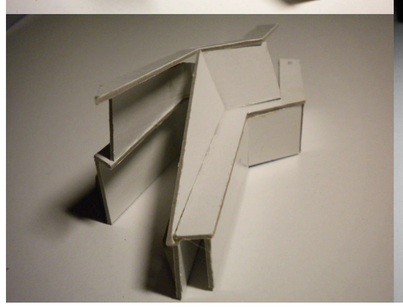


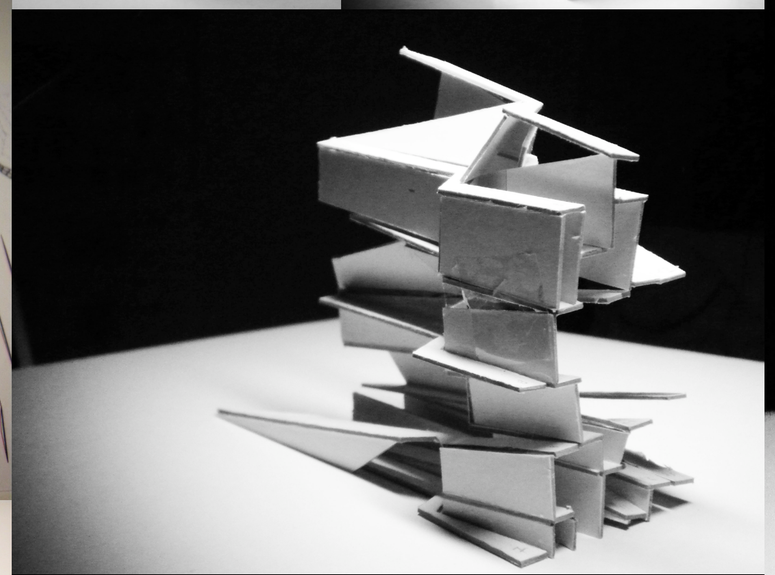


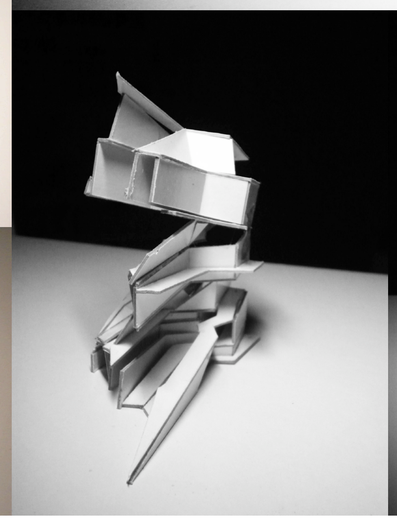


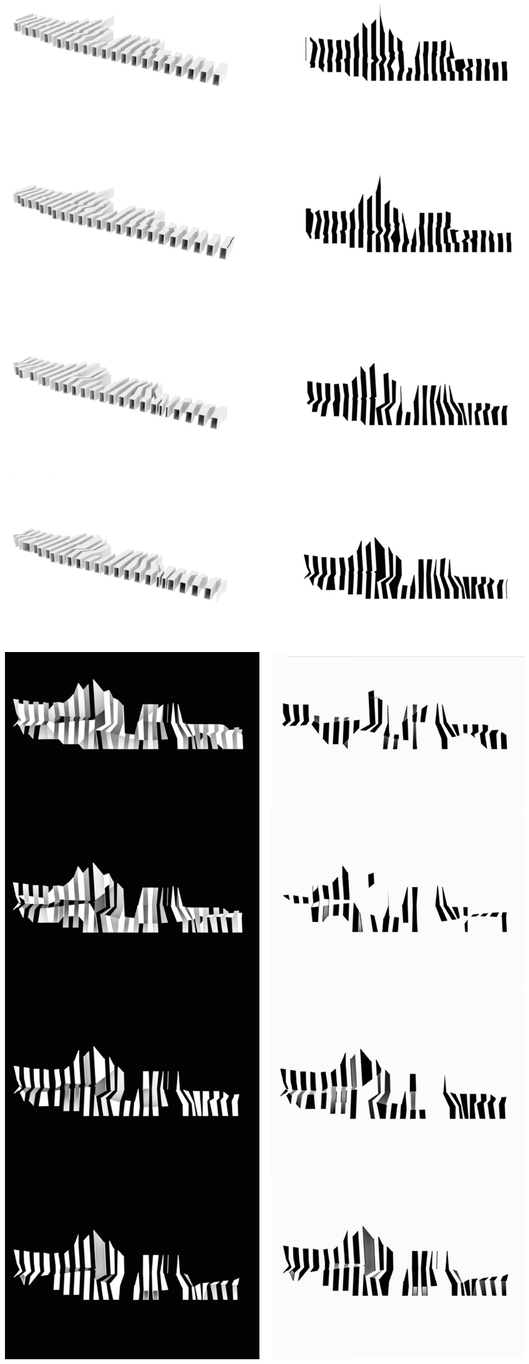


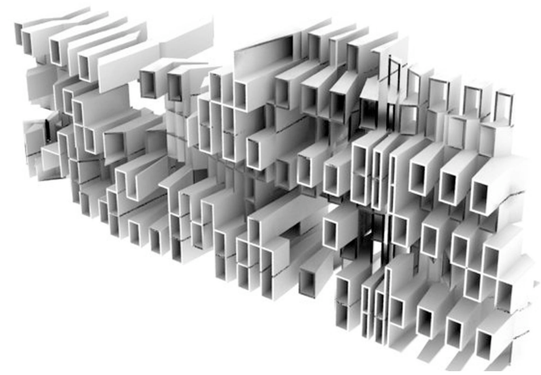


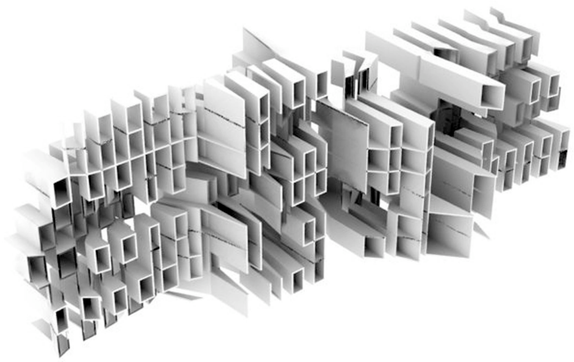


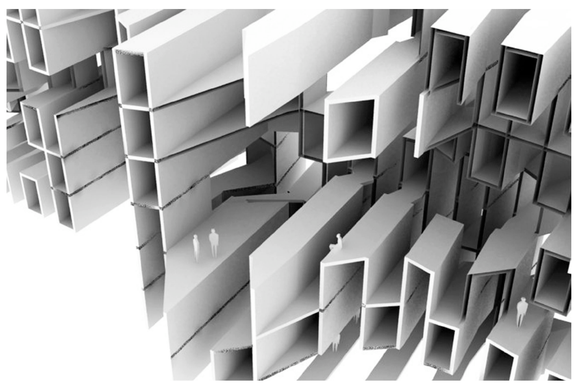


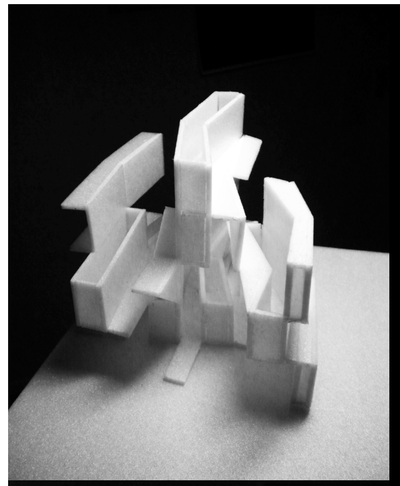


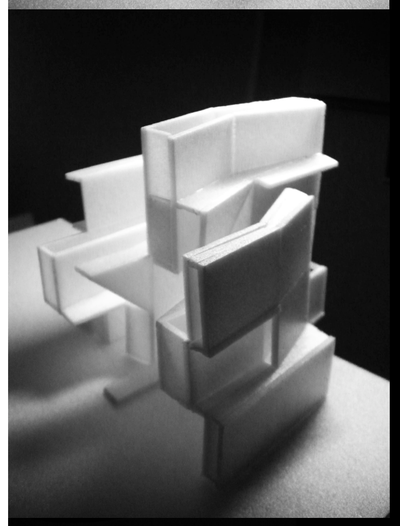


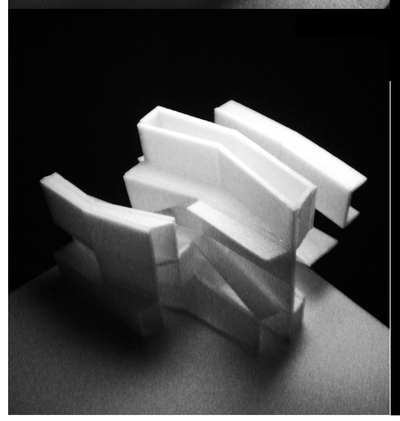


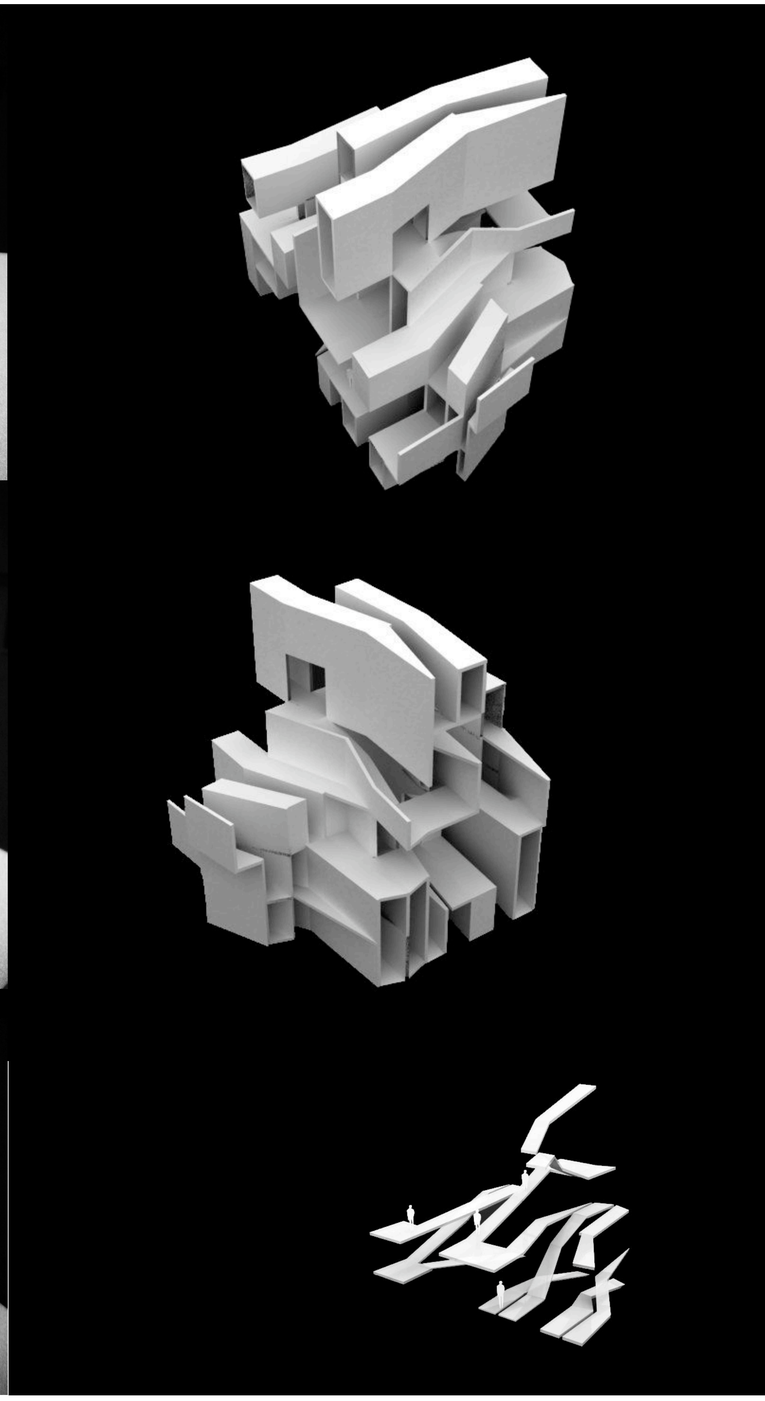


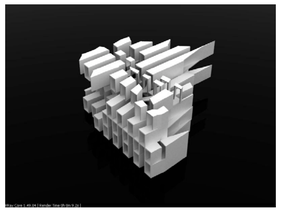


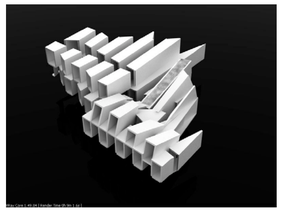


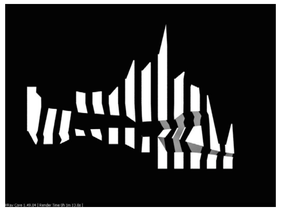


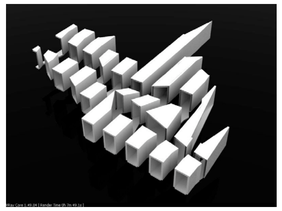


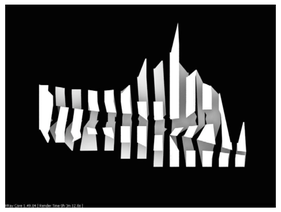


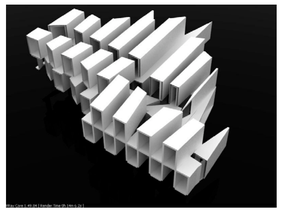


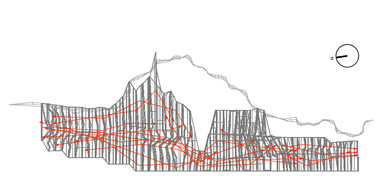


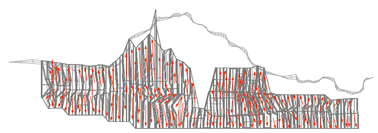


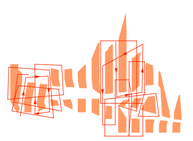


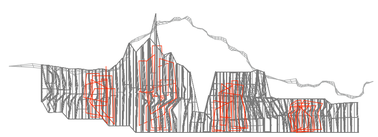


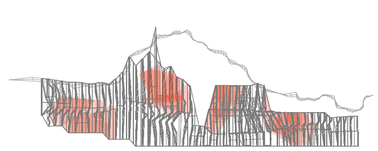


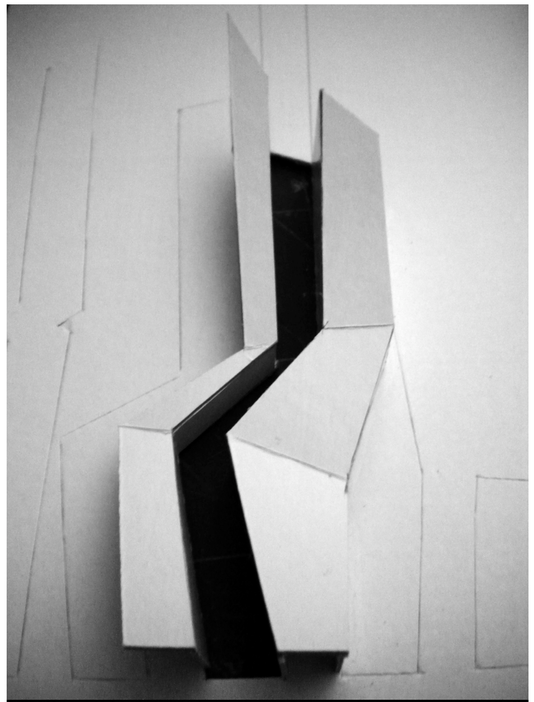


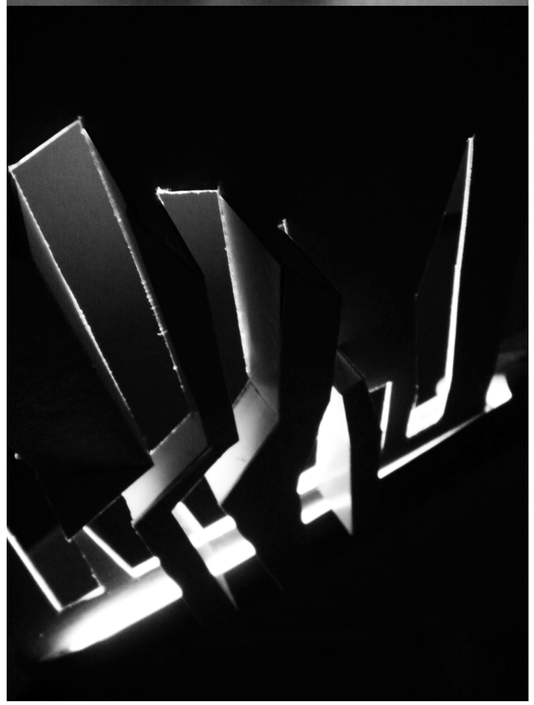












/ / / / / / / 0 [notion of the invisible]

/ / / / / / / 1 [case study: Garbage city]

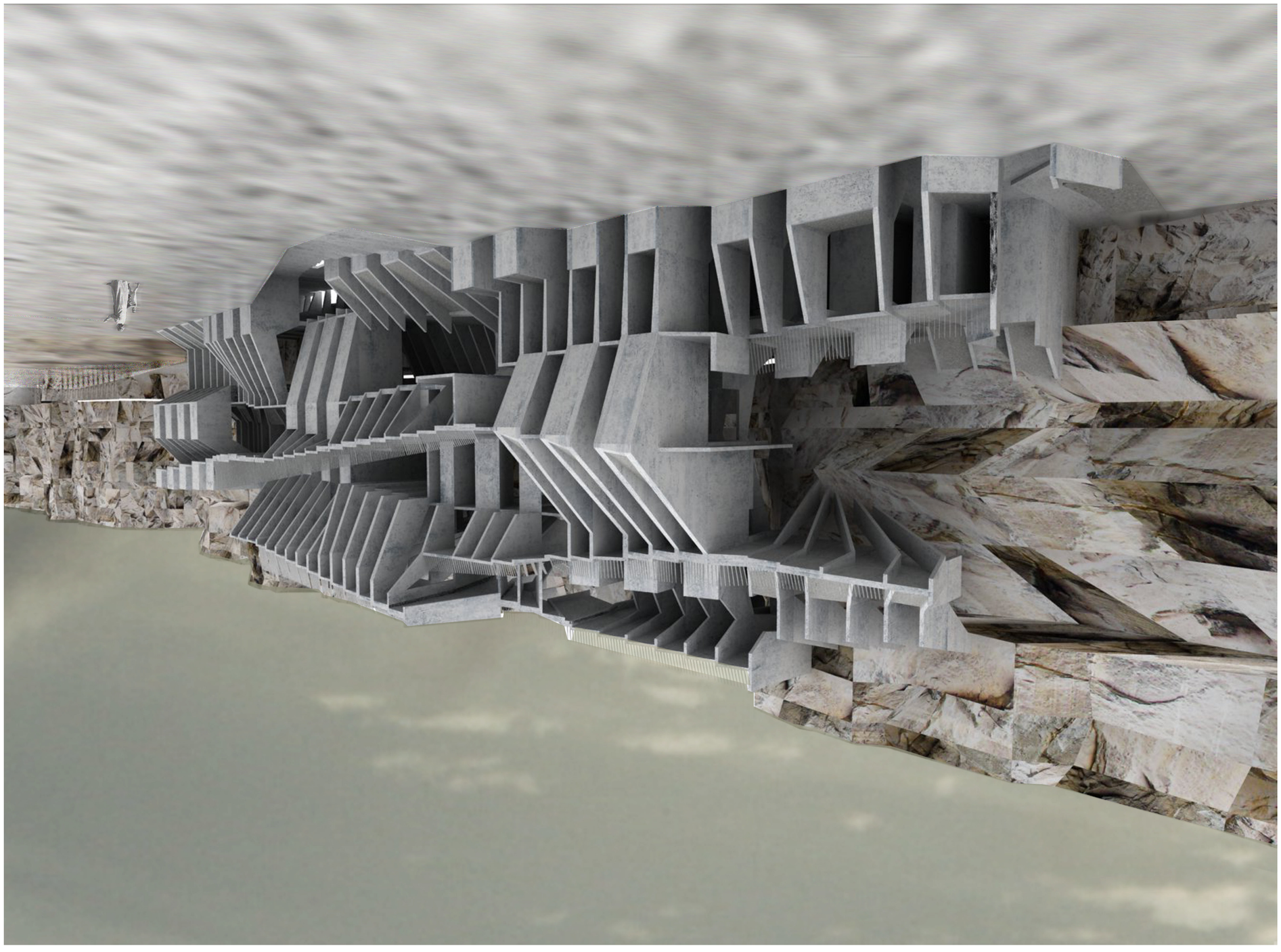
/ / / / / / / 2 [mapping]

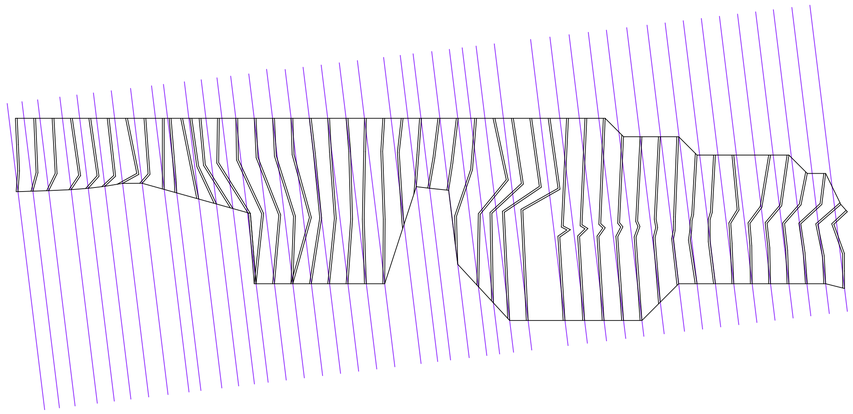
/ / / / / / / 3 [choice of site / program]

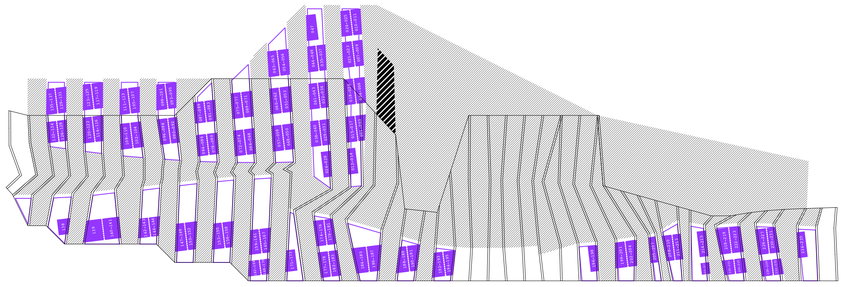
/ / / / / / / 4 [transcription of diagrams / application of principles in the design]

/ / / / / / / 5 [final design]

a Coptic cemetery in Manshiyet Nasser

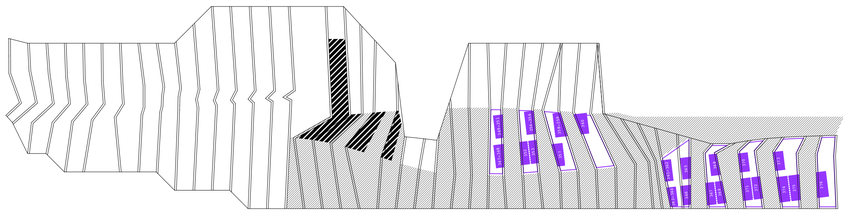






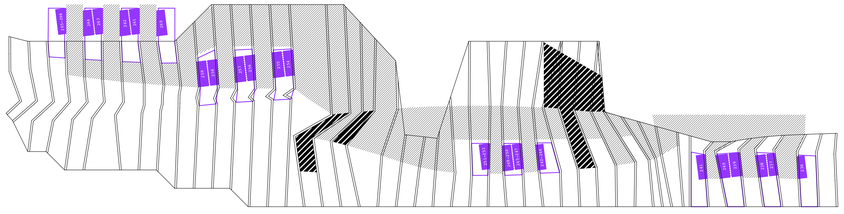
-01 / -2.25 - ±0.00

|235| 001-235



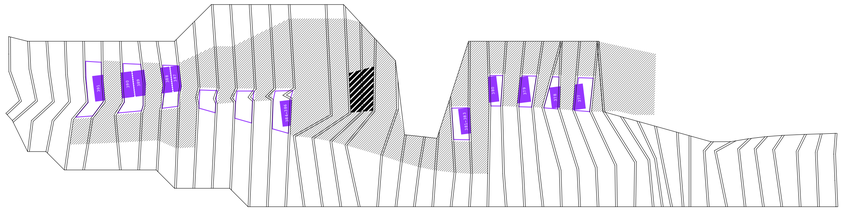
03 / +8.25 - +11.70

|30| 347-376



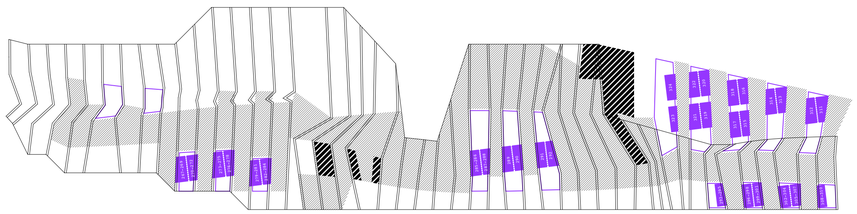
00 / ±0.00 - +4.05

|31| 236-266



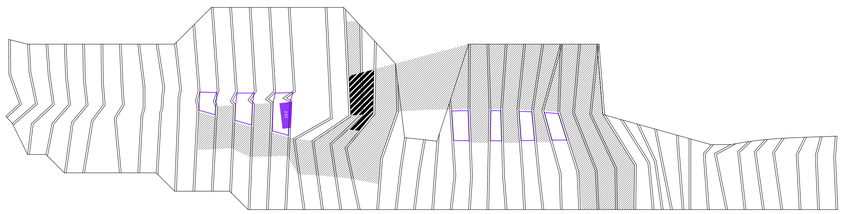
04 / +10.35 - +13.50

|15| 377-391



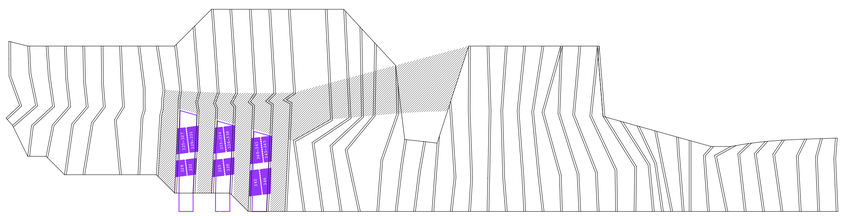
01 / +4.05 - +6.60

|58| 267-324



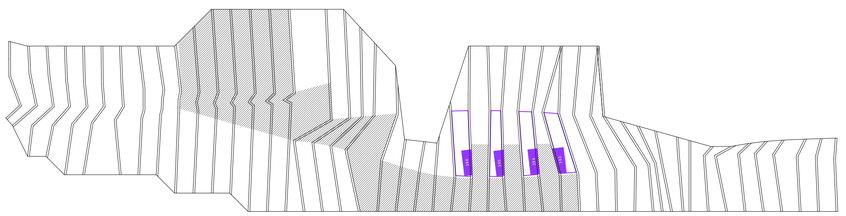
05 / +13.65 - +15.60

|1| 392



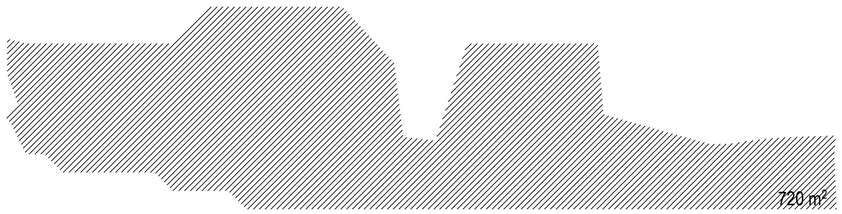
02 / +6.75 - +8.85

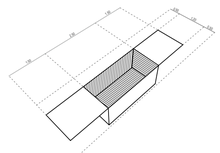
|22| 325-346



06 / +15.75 - +18.90

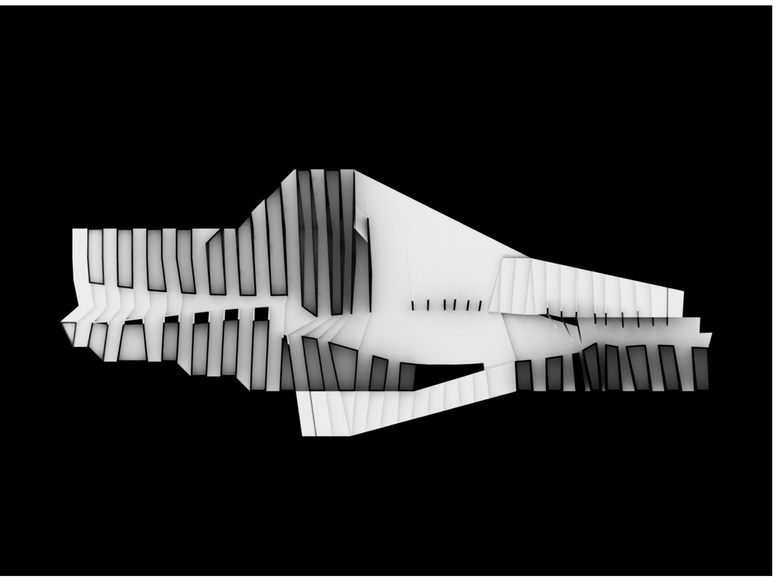
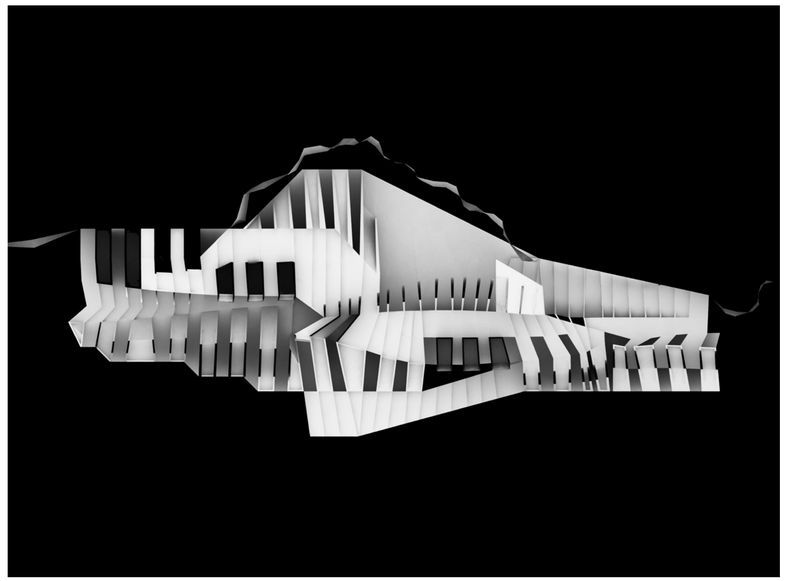
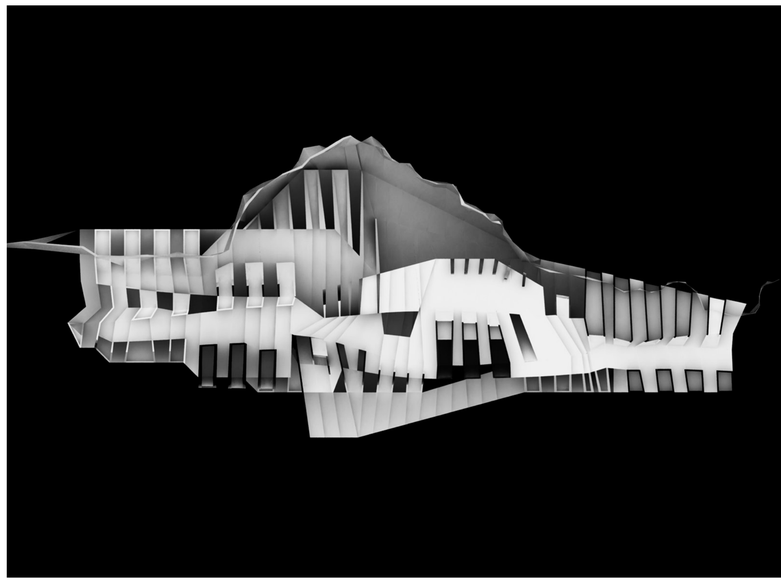
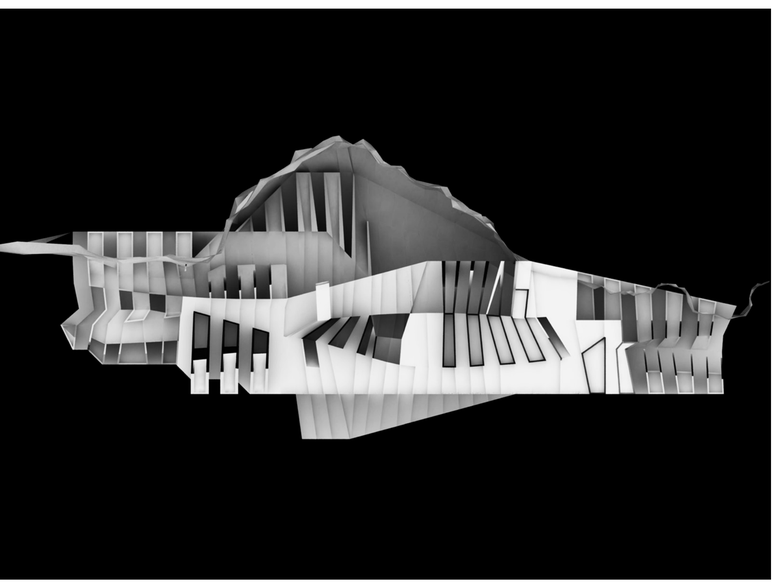
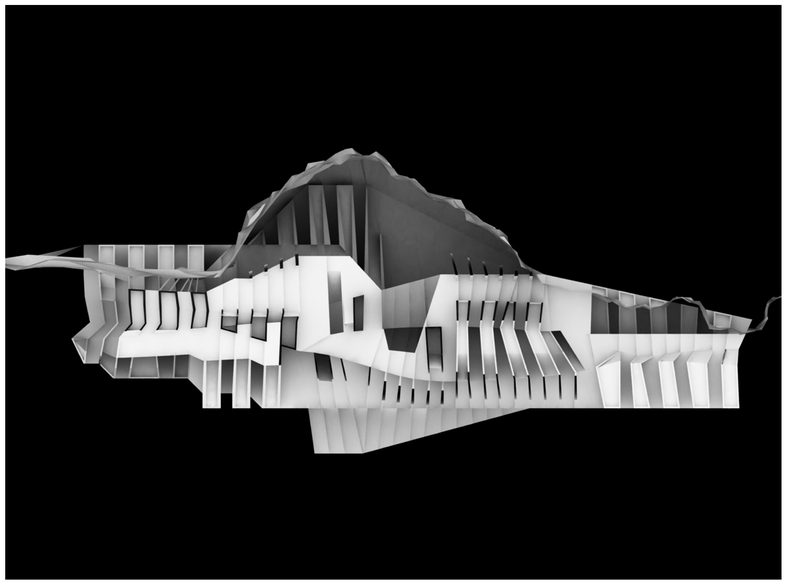
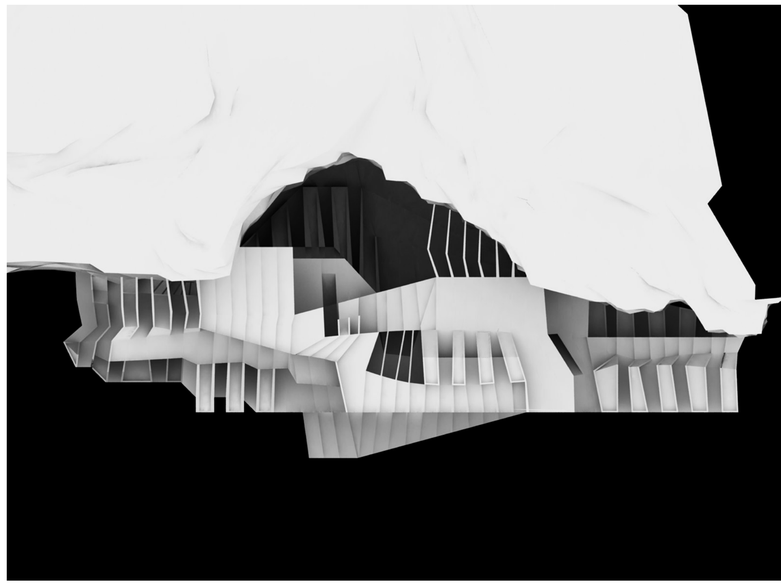
|4| 393-396

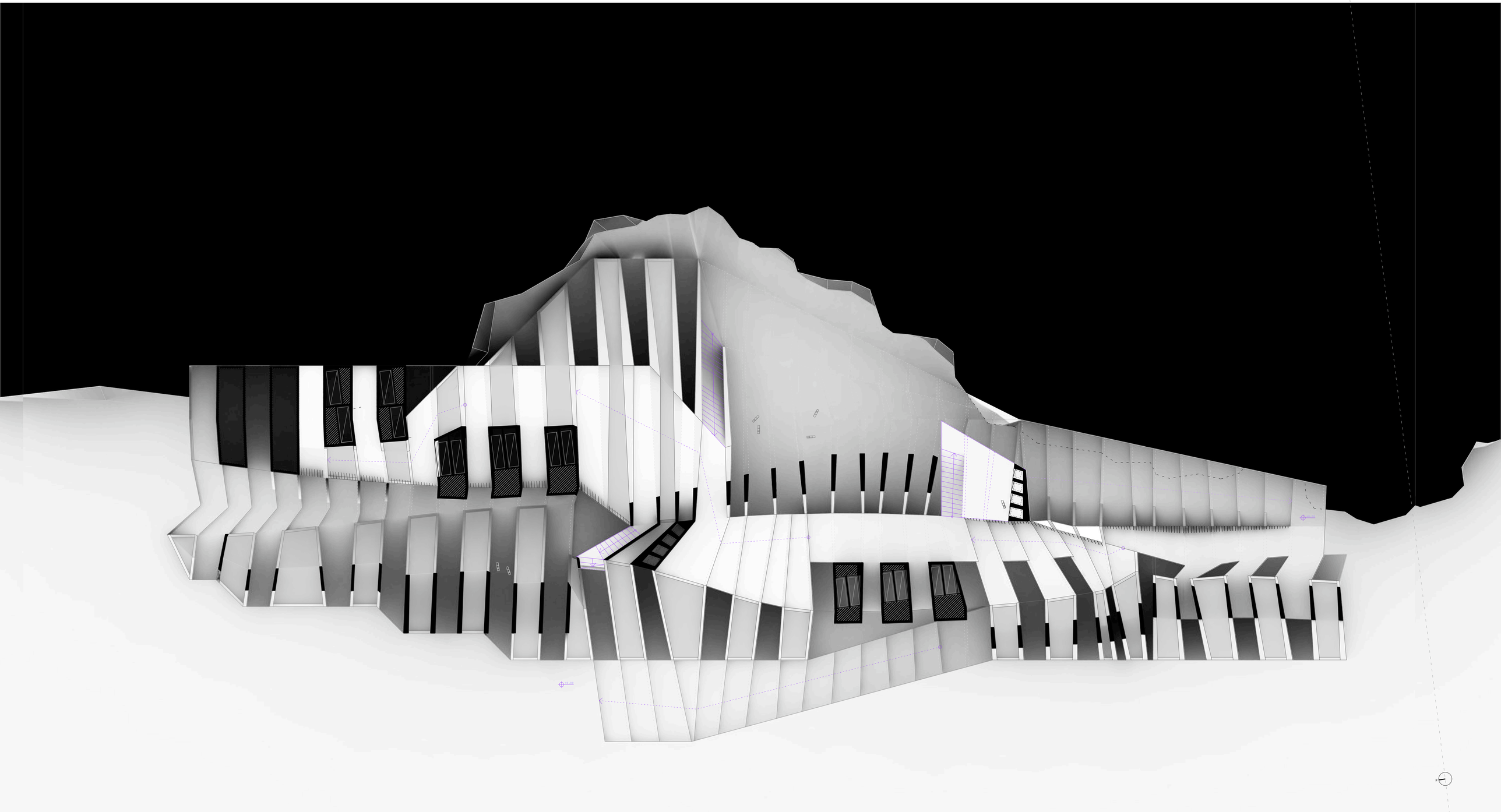




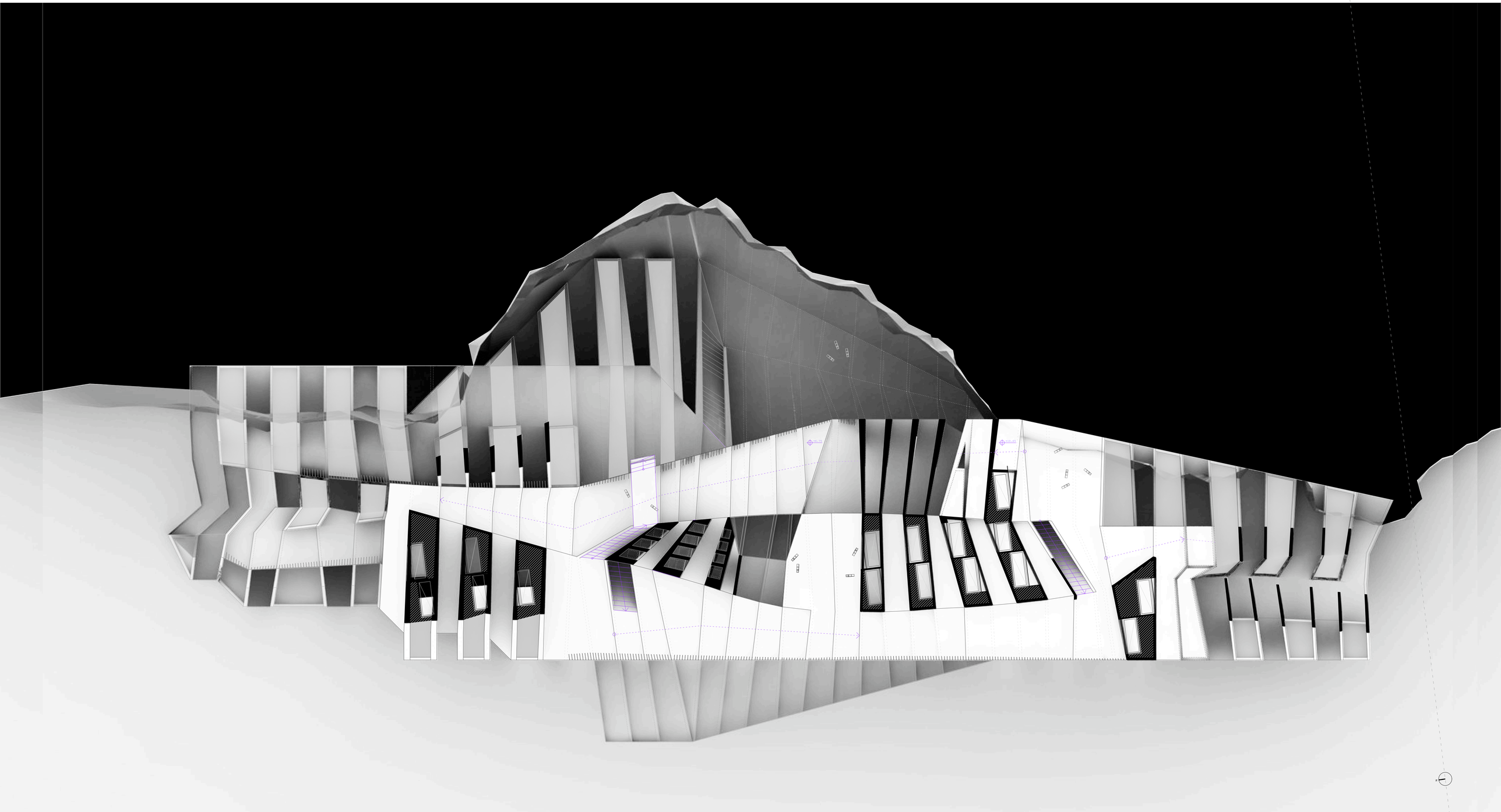
1.80 m²

8.80 m²

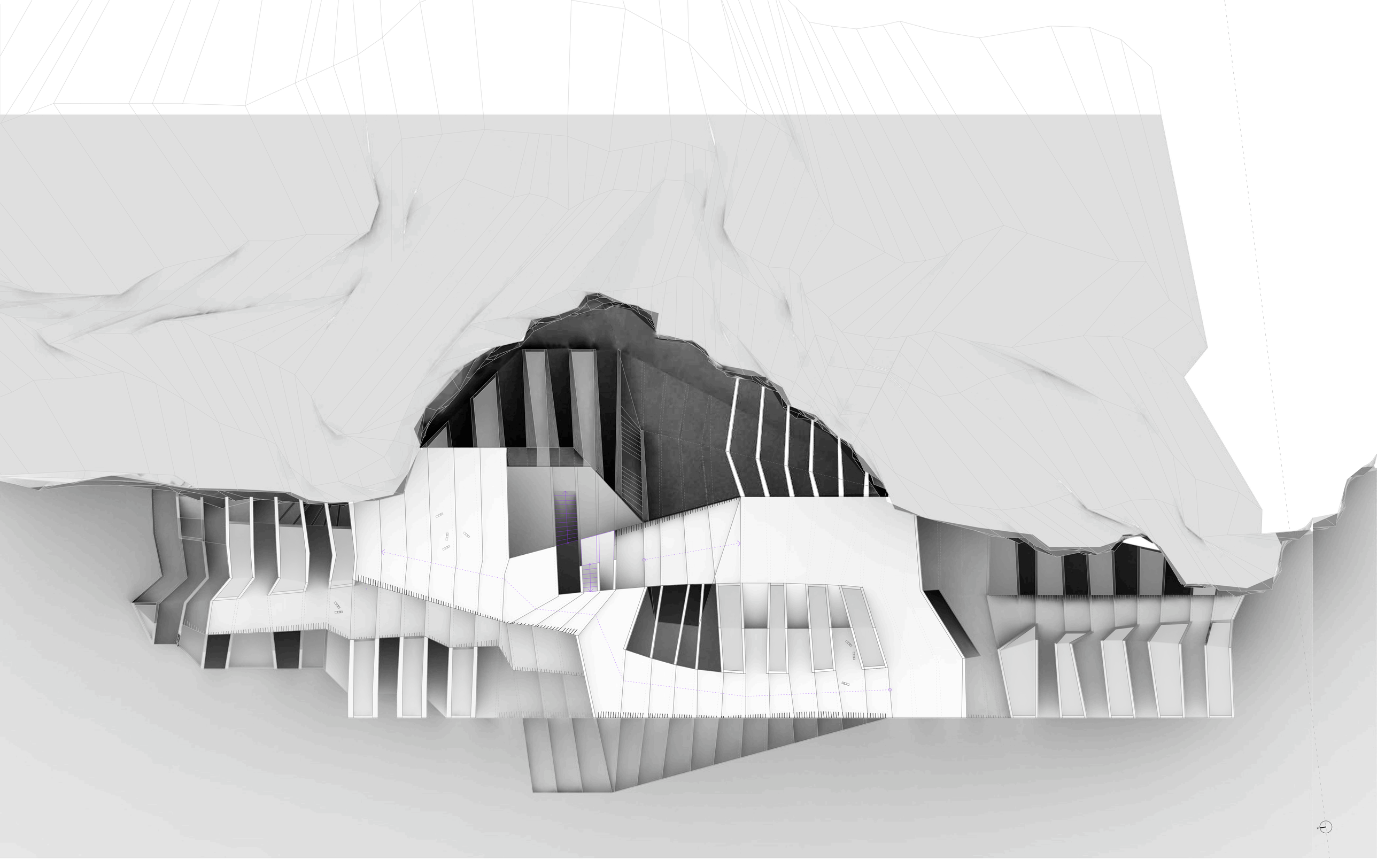









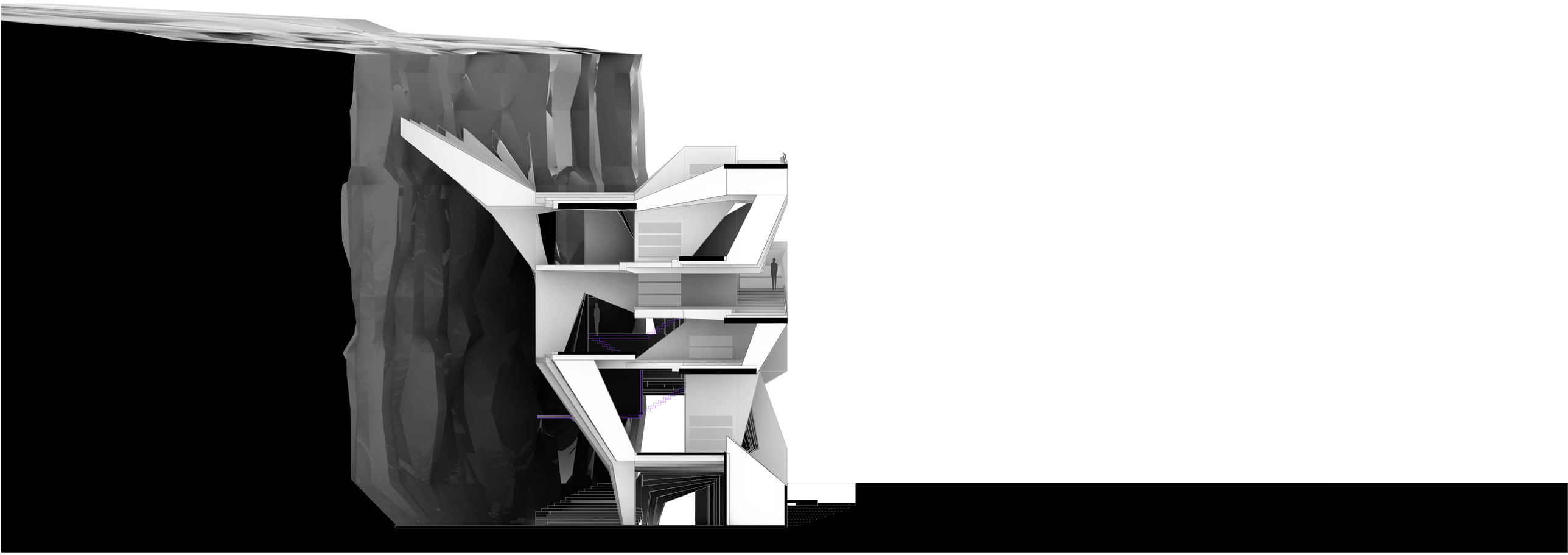
level ±0.00 - +3.60



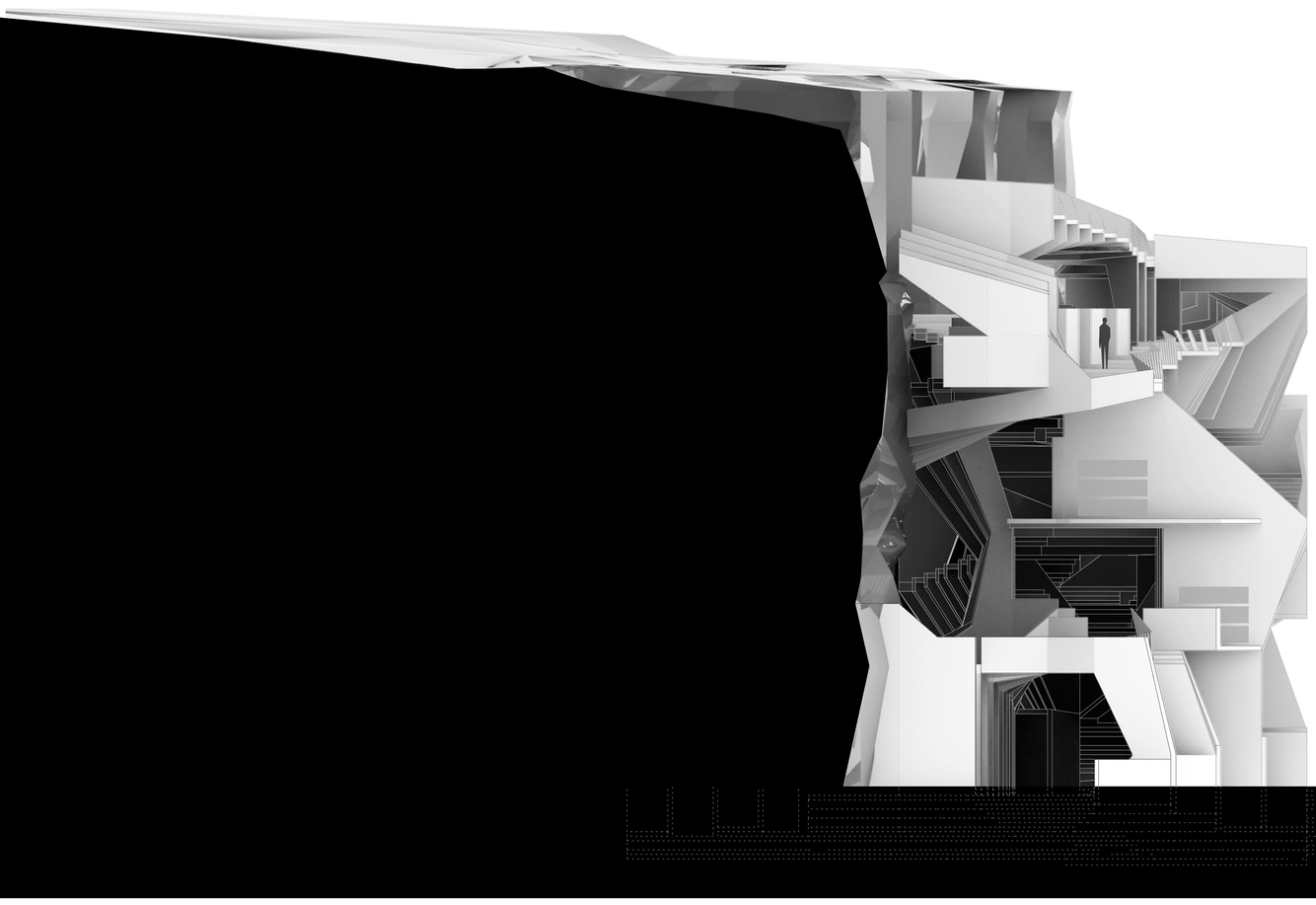
level +6.75 - +10.65

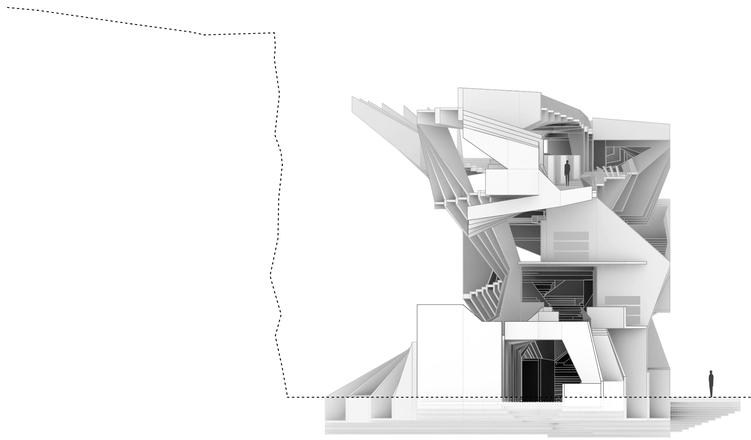


top view

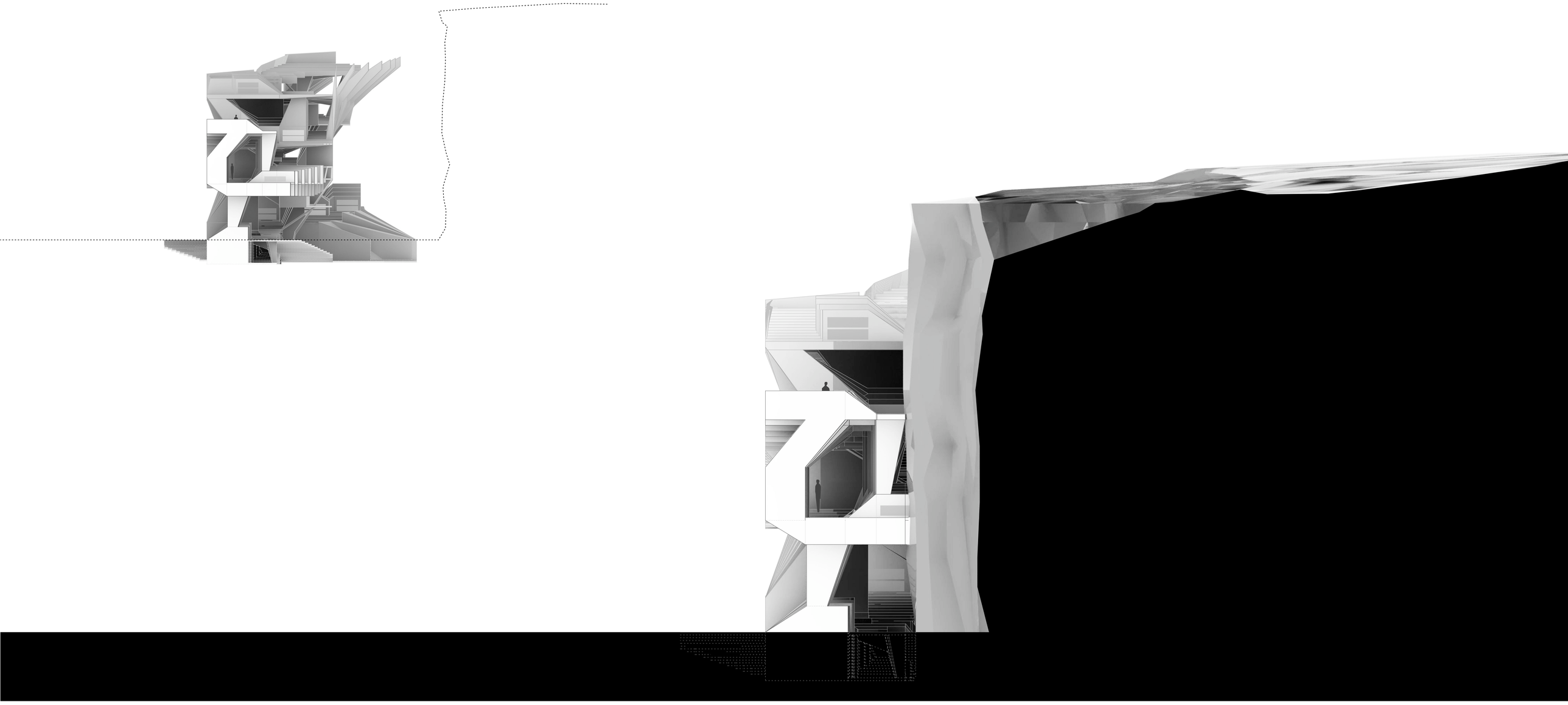


section

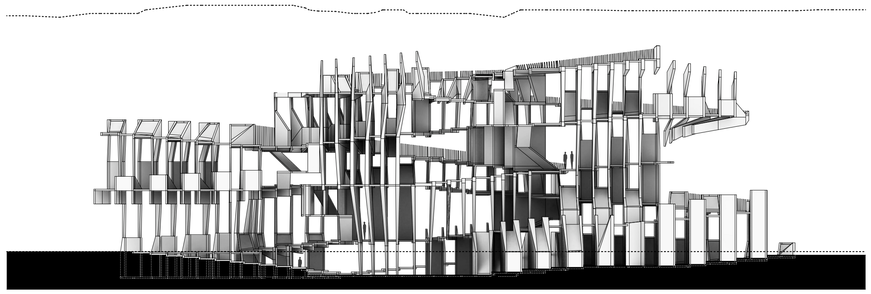




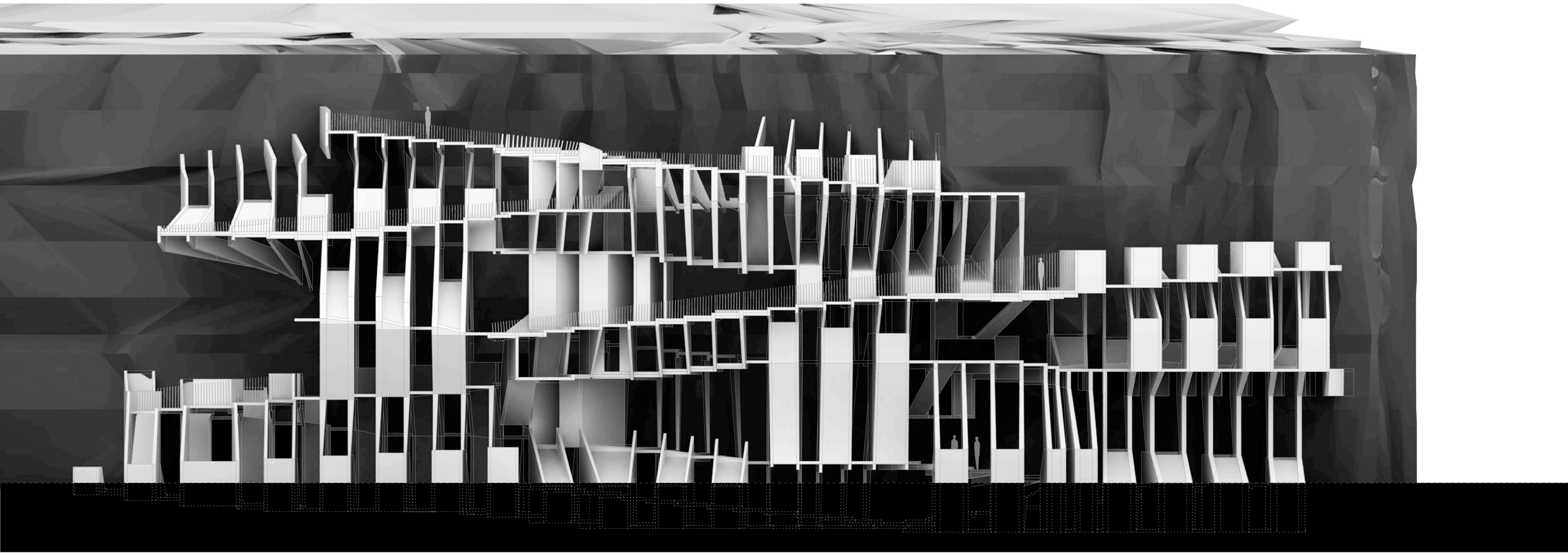
north elevation



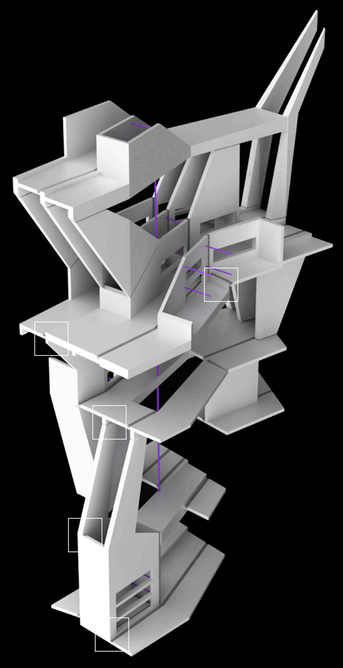
south elevation

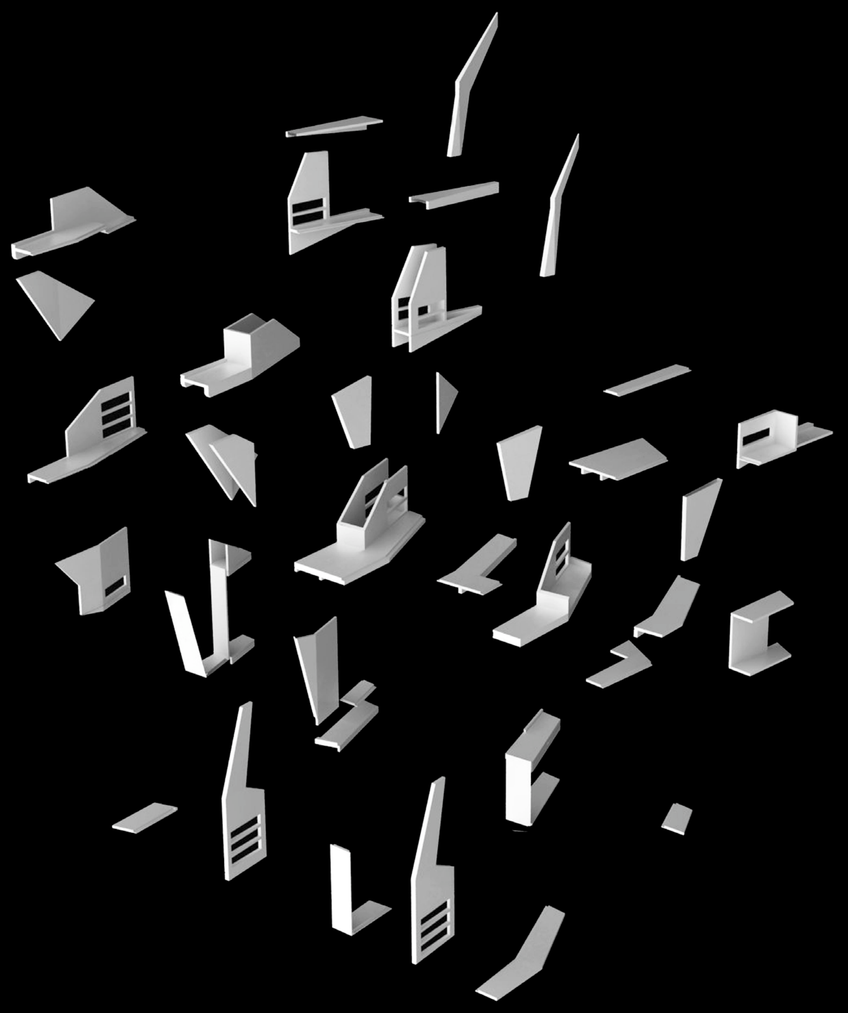


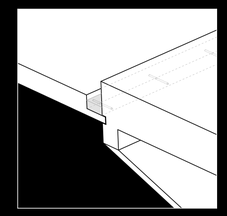
east elevation

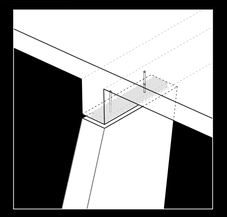


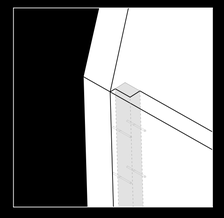
west elevation

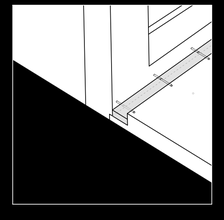


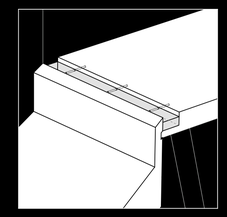


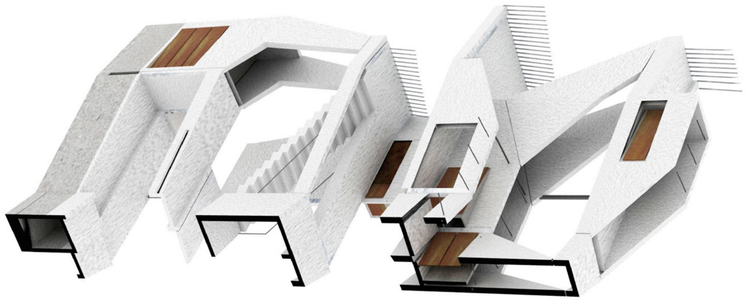


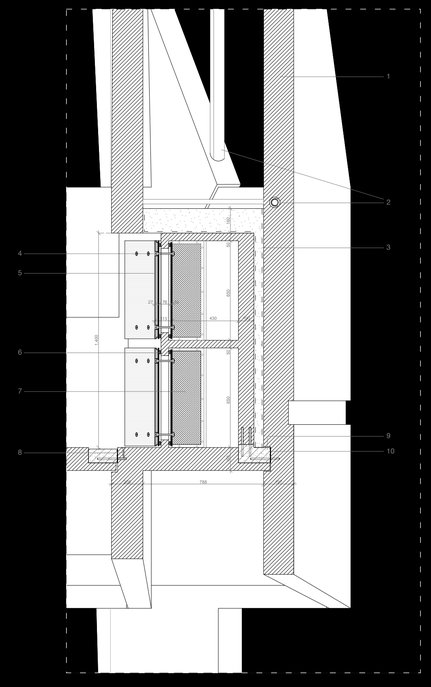




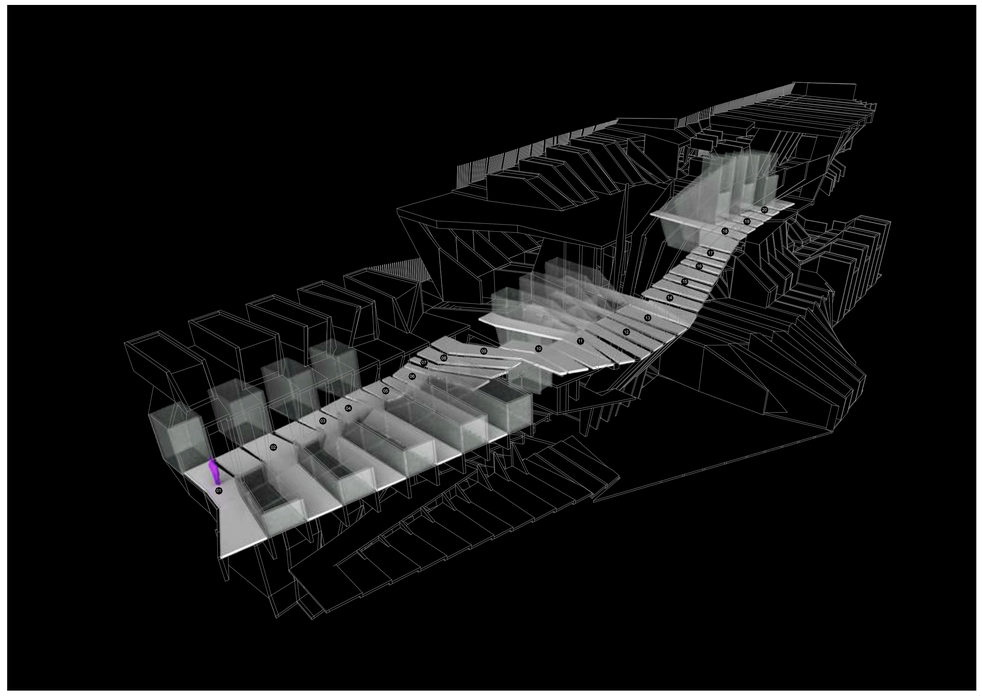




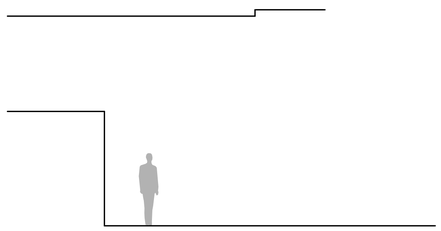




1. 150mm [variable] precast concrete /cast in polished steel form /smooth white surface2.
2. [irrigation system] copper pipes ø 30mm
3. insulation adhesive
4. stainless stell bolt 16mm x 1.5
5. 30mm copper panel with honeycomb core
6. rubber sealing
7. stainless steel net
8. edge recess filled with mortar after assembly
9. fill mortar
10. 10mm stainless steel plate



01.



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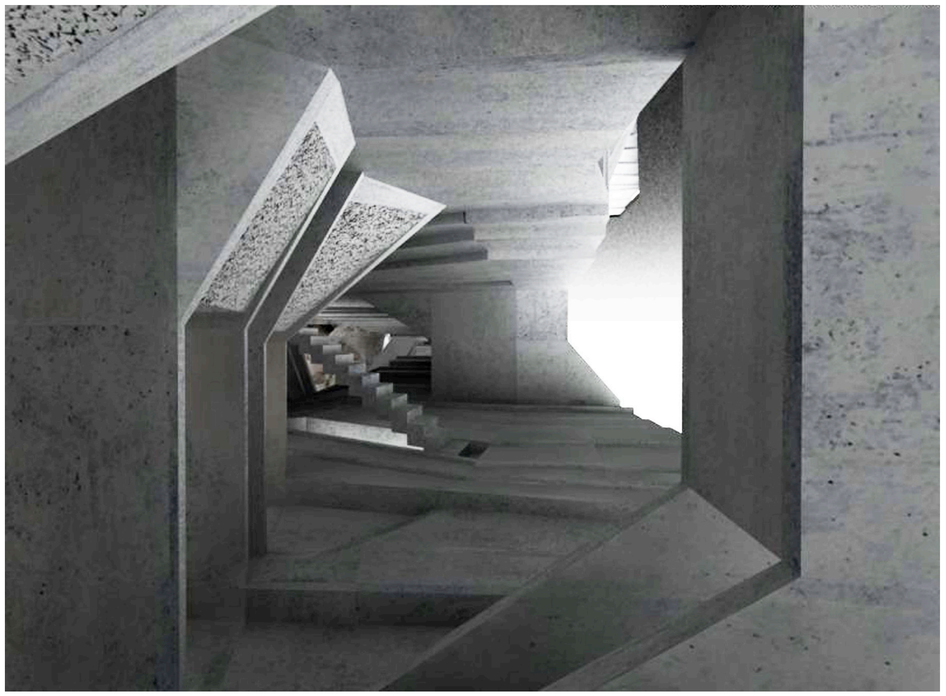

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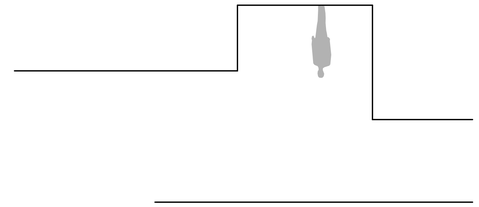

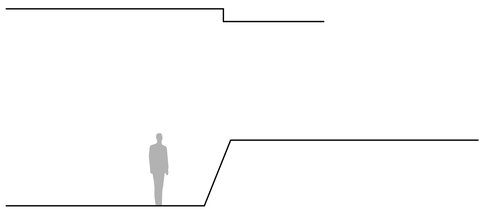

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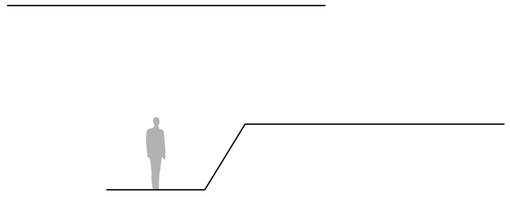

05.