

INDEX

٠4 .96 ·128 138 :142 .144

ART INCUBATOR + HOUSING AT 2800 BISSONNET

Houston, TX | Spring, 2022

PUBLIC SCHOOL 64

New York, NY | Spring 2020

PENN STATION EXTENSION

New York, NY | Fall, 2021

HOUSING COMPLEX IN BRONX

Bronx, NY | Fall, 2020

RECENTERING REMEMBERANCE

Tompkins, NY | Spring, 2021

CUT THE GRID

New York, NY | Fall, 2019

FOLDING WALL

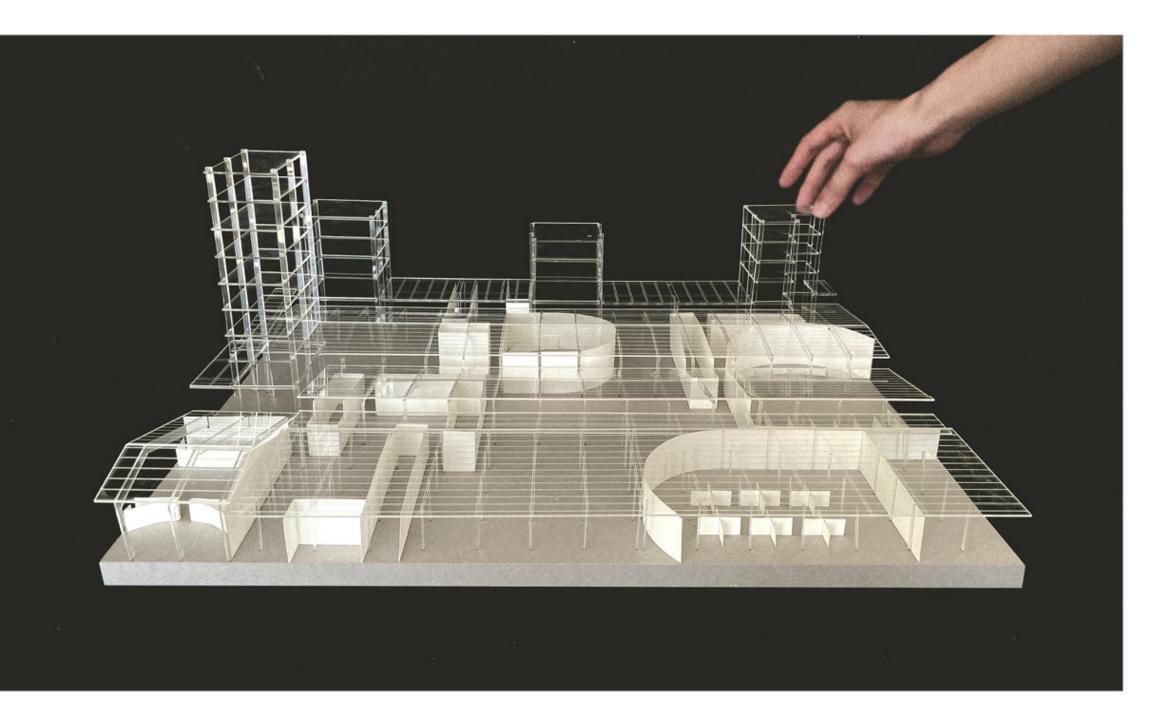
Fall, 2019

RECIPROCAL JOINERY

Spring, 2020

DUCK BATH

Spring, 2022



Adaptive Reuse of Industrial Buildings Spring 2022

Teammate: Danielle Nir

ART INCUBATOR + HOUSING AT 2800 BISSONNET

The studio, "Buildings on Buildings," asks two main questions: 1) How can we repurpose a former Coca-Cola bottling plant in Houston, Texas for an art incubator program? 2) How do we negotiate the 13.6 acre site for a program brief that only requires 1/6th of the site's square footage?

Our project Art Incubator + Housing in Houston responds to these questions firstly, by breaking down the building into a field of columns where art incubator programs can be plugged into, and secondly, by utilizing the additional space on site for 280 housing units to address the rising housing demands in Houston.

Building on the site's history as a rapidly growing manufacturing plant, our adaptive reuse strategy is to preserve and expand on the existing field of columns and the existing roof system, to create a continous ground floor condition where programs can be inserted without limit. Having studied Archizoom's No-Stop City as a precedent, we adapt this non-heirarchal idealogy for an art incubator program, where artists can work among a field of disciplines that they can explore freely. Additional programs include theater, education, galleries, sports, and dining.

1950

PROTOTYPE FOR BOTTLING PLANTS





FEBRUARY 1951

Houston Coca-Cola Bottling Company Stone & Pitts, Architects and Engineers HEN production rises to 1200 bottles a minute, or W 22,000 cases a day, even so simple a process as bottling Coca Cola involves construction on a big scale, and sets before the architects some problems of layout and material handling to test their proverbial ingenuity 1963 in these matters. The architects for this building studied 43 bottling plants in three countries, developed a new scheme, tested and revised it, until this plant became a pioneering project of considerable importance.

Its central feature is the "Drive-Thru Building" (see page 124), with 15 lanes where trucks disgorge empty bottle cases and load full ones with a minimum of manual handling. Conveyors carry off the empties and deliver filled cases to raised platforms between lanes. The system saves as many as 44,000 manual casehandlings in a single day. And the plant is now the prototype for several others the architects are planning. The drive-through system was originally suggested by engineers of the parent Coca-Cola company, but had never been tested. The architects translated it into a full plant parti, complete with conveyor systems, grav-ity feed lines and so on. Then a model was constructed for study. When this began to look good, a full-scale mock-up was built, consisting of one lane with operable conveyors. This was tested many times with actual 1965 trucks and bottle cases. The tests resulted in several changes in original thinking, all of which were incorporated in final plans for this building. The system saves time for an expensive fleet of trucks as well as eliminat-ing much handling of cases, and 75 of the trucks can park in the lanes overnight.

The several buildings are deployed around the conveyor lines, so that the various elements of the process feed into the lines at the proper point, with mechanical handling wherever possible, All material flow lines, con-veyor systems and bottling machinery arrangements were designed and detailed by the architects. So are assembly line methods introduced in an industry grown to huge proportions but always beset by inefficient handling facilities and always struggling to expand.

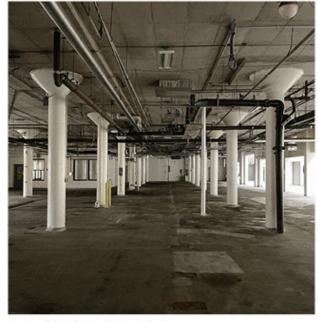
Architecturally the buildings exhibit their functional aspects quite naturally. The trucking buildings are of factory type construction with corrugated asbestos panel walls. The main building, housing bottling machinery and offices, is faced with face brick and lime tone, and with tall strip windows on the first floor, for the bottling works is really a great display room for a major industry.



The Coca Cola bottling plant was originally built in 1950, when there were three buildings on the site, for bottling, drive through, and storage/advertising and repair. The prototype was designed by the architects Stone and Pitts, to provide maximum efficiency, which combined the skill of workers and the efficient of machines to bottle 1,280 bottles per minute.

Over the years as demand for Coca Cola bottling increased, more warehouses were added. At the beginning of 21st century, the site is almost maxed out as the bottling plants grew.

During the site visit, we were struck by two key features. First is the field condition of the ground floor that results from the extensive grid of columns of the original buildings. And second is the collage-like accumulation of roofs which resulted from the increase in buildings over the years.



EXISTING CONCRETE COLUMN GRID



EXISTING STEEL COLUMN GRID

Our adaptive reuse strategy is to preserve and expand on these two existing conditions.

First, we expand the column grid throughout the whole site. And then we add a new roof to fill in the gaps so that the site is completely covered. Through these two gestures:

We open up the ground floor into a continuous field where programs can be introduced without limit, in the same way that manufacturing functions were plugged into the grid of columns in the past. With our continuous roof and extended column grid that open the site into an urban corridor that is covered to provide shaded space from the strong Houston sun.

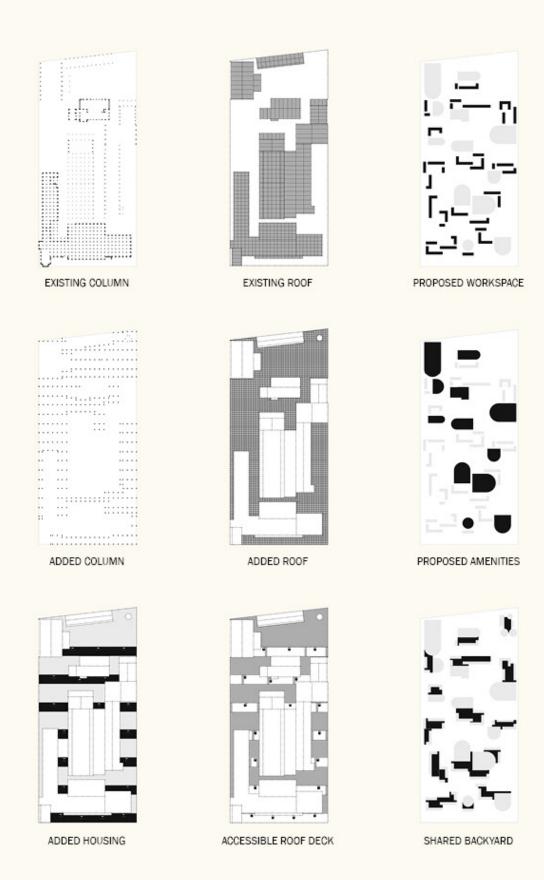


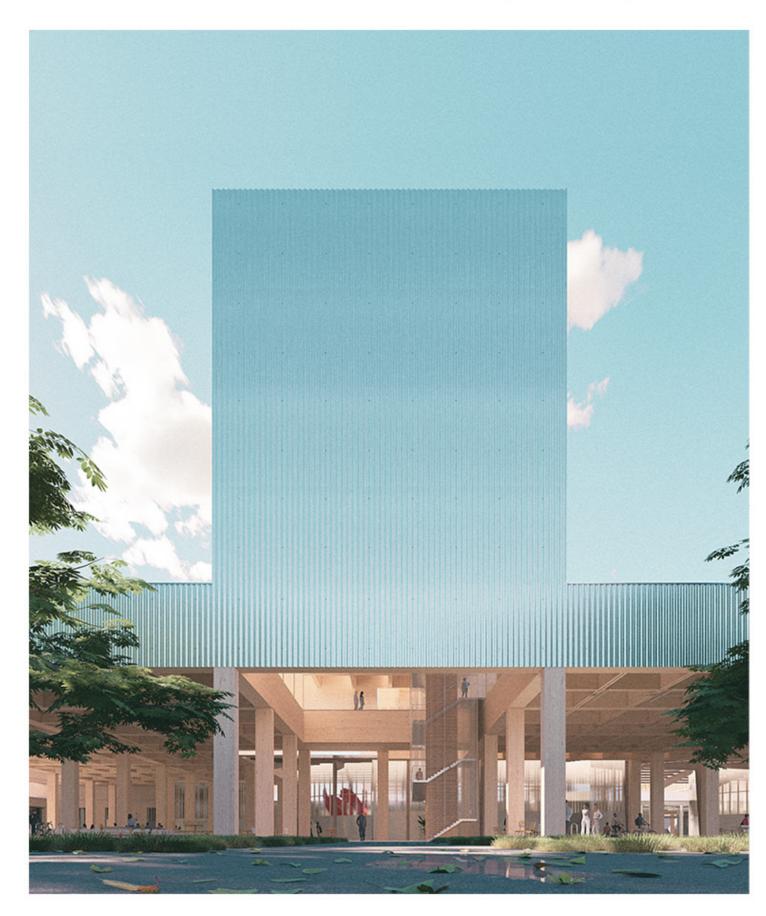


In addition to the given programs, we identified housing as an important need in Houston. We decided to add a housing component to our project to provide housing units for the rising population in Houston and also to add more value to the other programmatic spaces on the ground floor by bringing in users.

The massing model represents the existing footprint in white, and our addition in gray. The housing strips are each 50 feet wide with a 100ft interval space, spanning the site east to west. They are built on top of the new roof without adding loads to the existing structure. The geometry of the housing derive from the existing footprint.











ART INCUBATOR + HOUSING AT 2800 BISSONNET



MICRO UNIT



STUDIO 410 sqf



1 BEDROOM UNIT 570 sqf



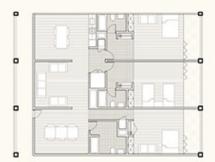
1 BEDROOM UNIT 615 sqf



2 BEDROOM UNIT 928 sqf



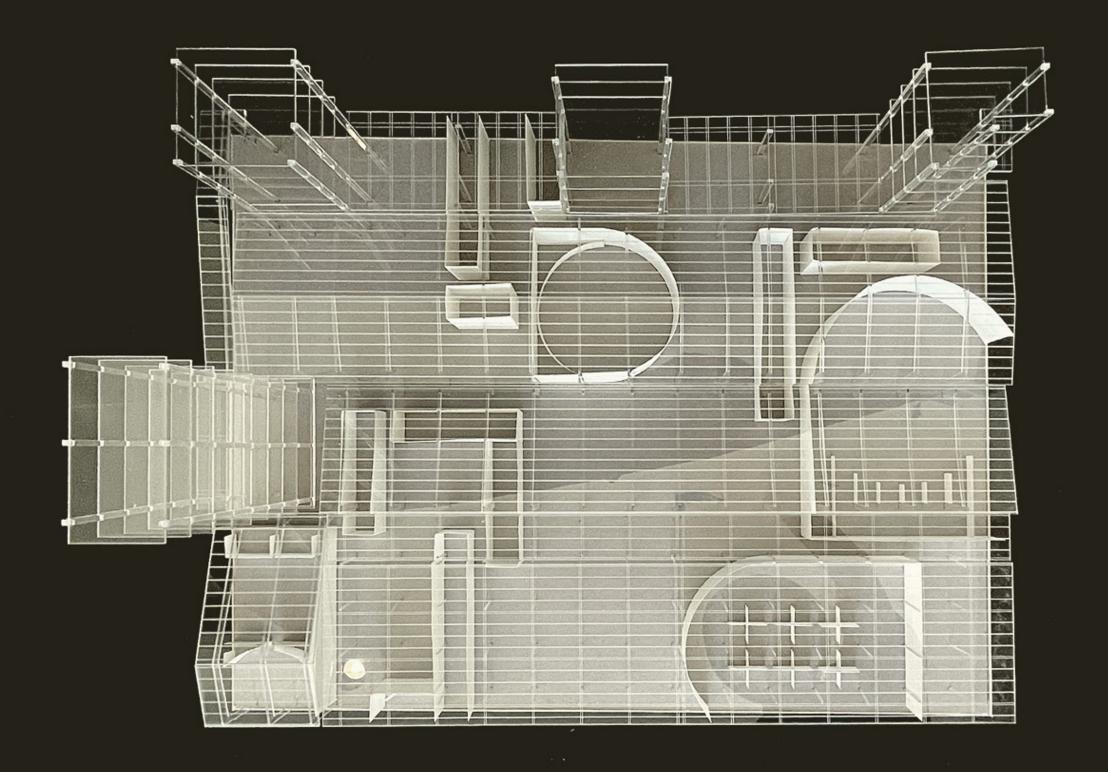
2 BEDROOM UNIT 1118 sqf



3 BEDROOM UNIT 1668 saf



ART INCUBATOR + HOUSING AT 2800 BISSONNET

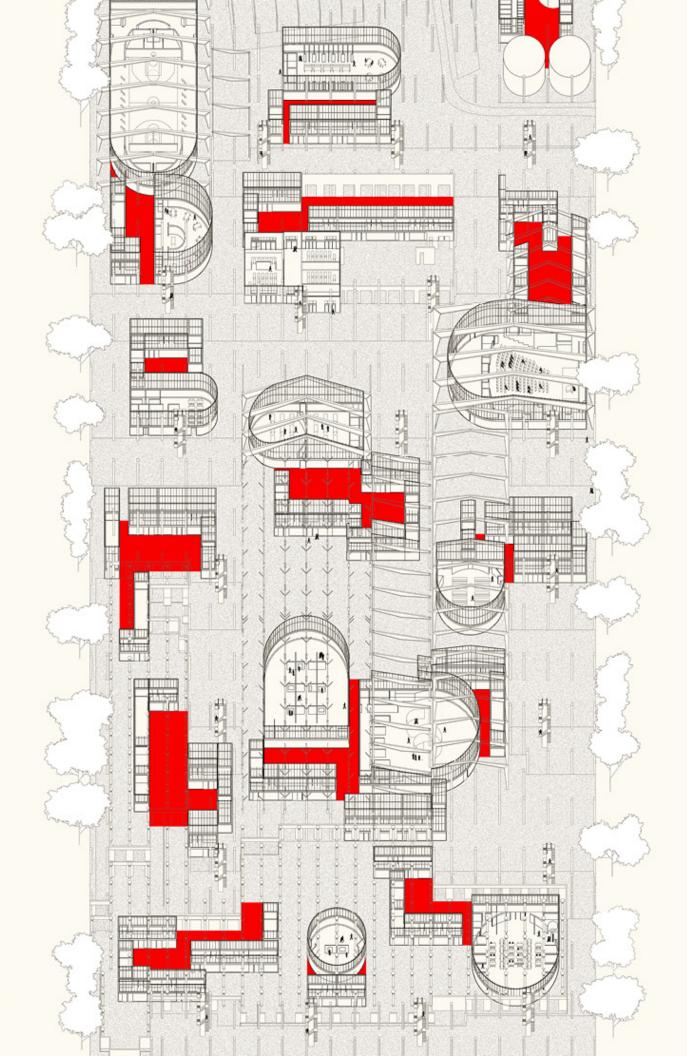




At the beginning of the studio, we were given detour cards to drift our thoughts away from the brief. We got an image of Ettore Sottsas Pattern Studies from the 1960s with a composition of abstracted geometric shapes. This made us think of No Stop City drawings where, as Andrea Branzi says:

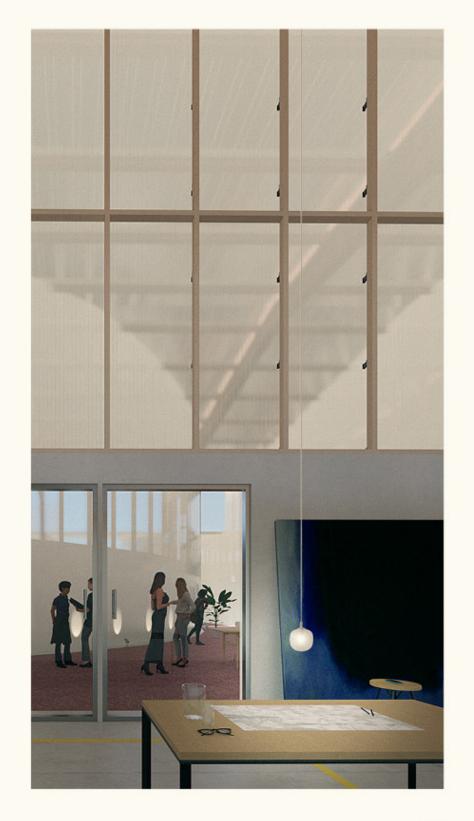
"Architecture becomes an open structure that seeks to guarantee the greatest possible degrees of freedom for the user, within a figuration that is as rigid as possible."

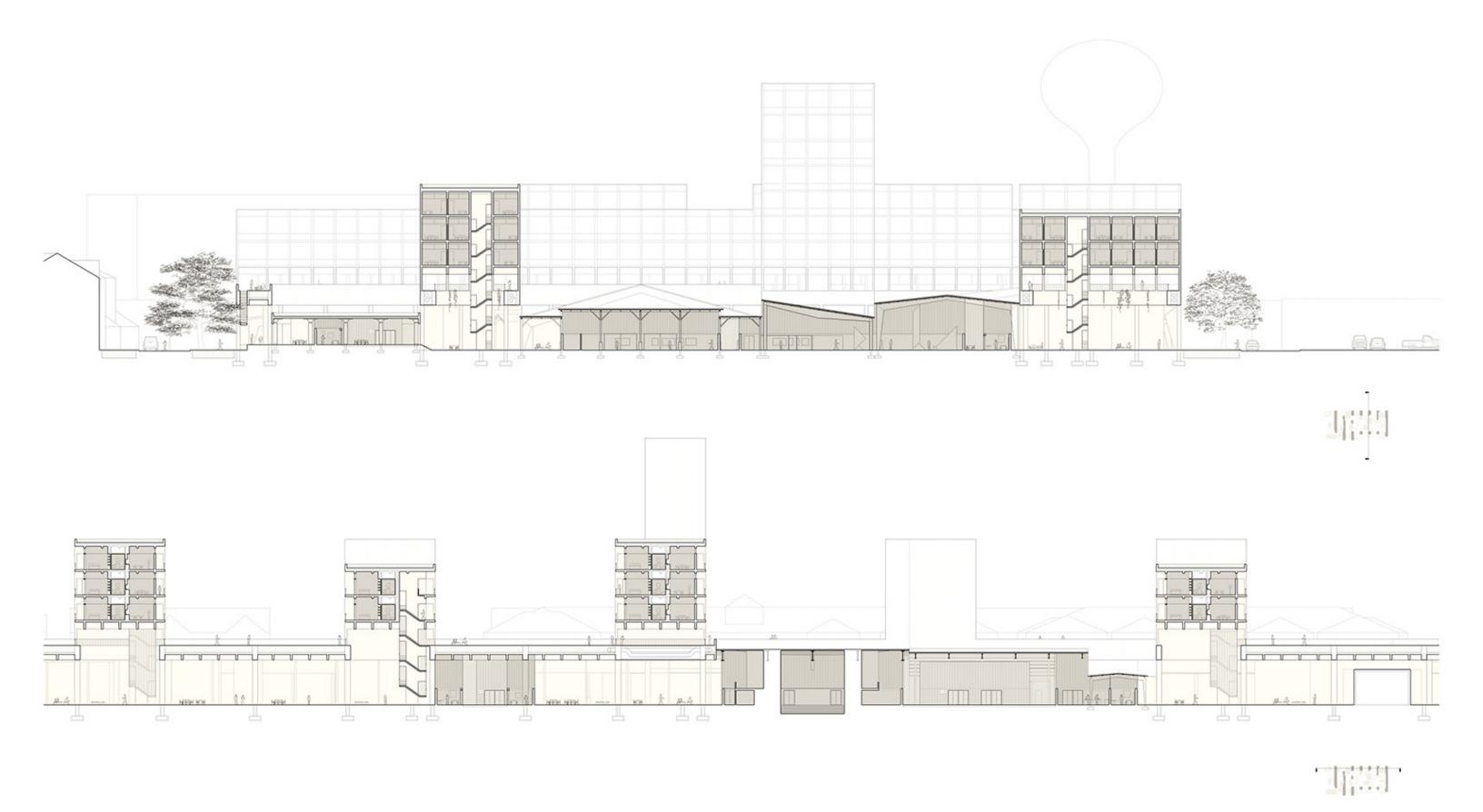
We believe that the design for an art incubator should embrace this type of ideology where the artists can work among a field of other disciplines that they can explore freely. Therefore, our master plan builds upon these precedents of non hierarchical compositions.



By breaking down the industrial scale into a field of smaller masses under the continuous roof, the open ground floor provide multiple routes for artists and residents to explore like in a city.

Large programs are arranged next to the workshops, bringing about a more intimate shared space we identified as backyard. The oblique drawing to the left highlights the shared backyards that can be used in different ways according to the programs on each perimeter. For example when there is a gallery next to workshops, the backyard can be used for an exhibition opening for artists and visitors. (Image to the right)





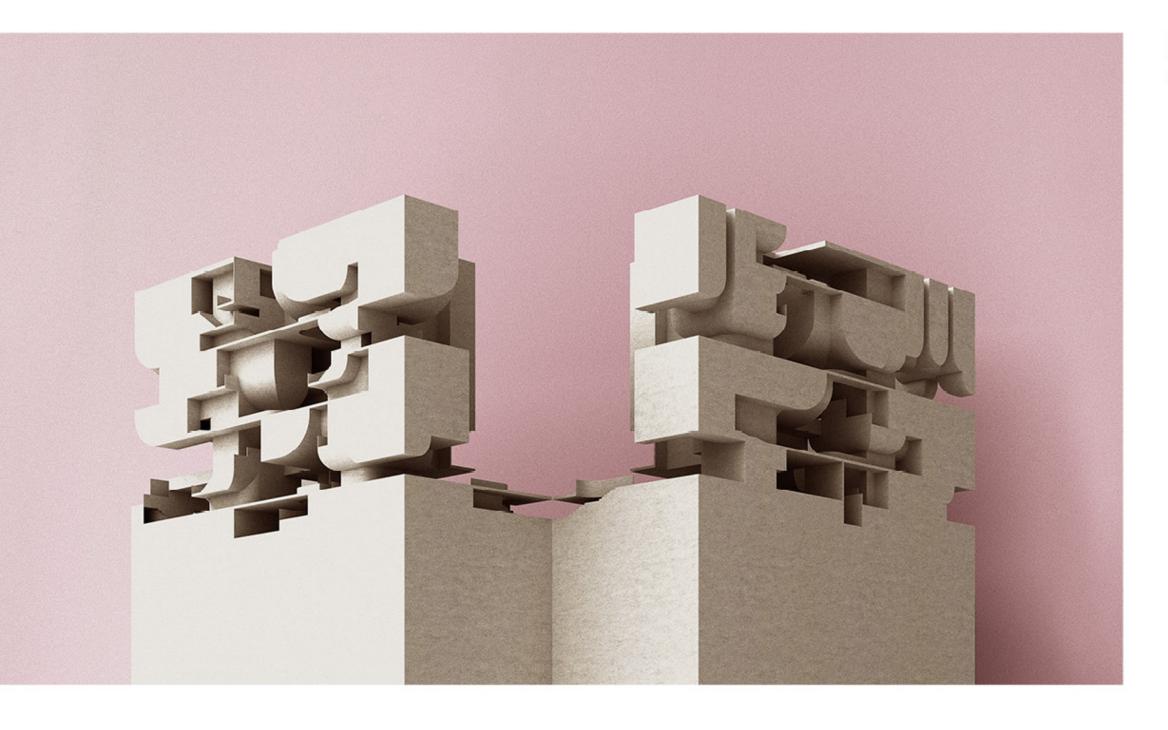
When covering the site with the new roof, we have to think of a way to bring in light. Inspired by the existing clerestory of the drive-thru building, we extend this way of getting light throughout the whole site.

We chose mass timber structure for the new to contrast the existing steel and to bring warmth to the experience. We cladd the housing stripes with corrugated metal that echos the existing condition. The floor underneath housing is paved with terrazzo to inform the housing entrance. The programs on the ground floor are enclosed by polycarb on wood frame, with 9ft tall opaque wall. The floor of the backyards are paved with gravel to give a sense of a covered outdoor space.





PUBLIC SCHOOL 64



School Renovation Spring 2020 Individual Work

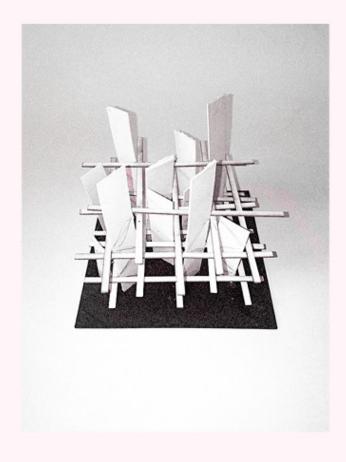
PUBLIC SCHOOL 64

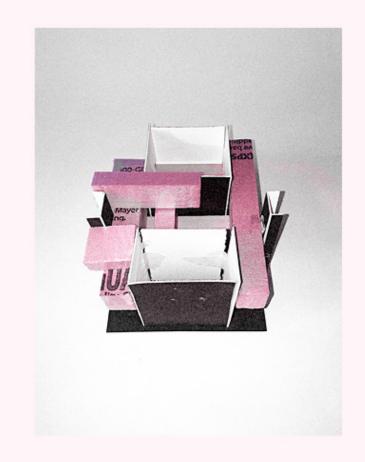
Rather than inhabiting the existing structure with solitary programs, the new PS 64 interprets the old as an envelope and intertwines a series of interconnected void spaces as a new learning structure. It provides a counterpart to the enclosed educational rooms in the form of 'weaving playscape'.

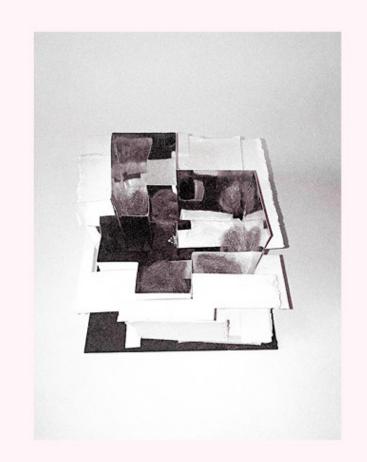
The intervention includes building scale thresholds as well as corridors conjoining the internal classrooms and urban scale thresholds facing the external open space. It connects 9th and 10th street with welcoming urban programs accessible to the community. While enclosed rooms are still characterized by the orthogonal shape and rough texture of the old masonry structure, the new play-sequence provides interactive interfaces with curve shape. The new structure connects communal programs and flexible play spaces with circulation in itself, thus offering a meandering experience of learning from surprise and uncertainty.

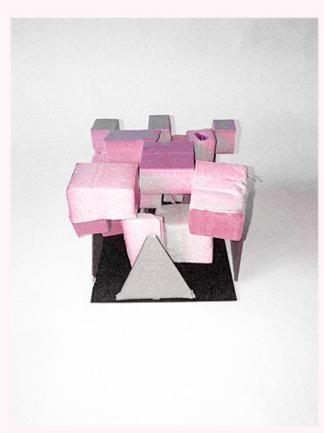
PUBLIC SCHOOL 64

CORE II, ERICA GOETZ, STUDIO GOETZ









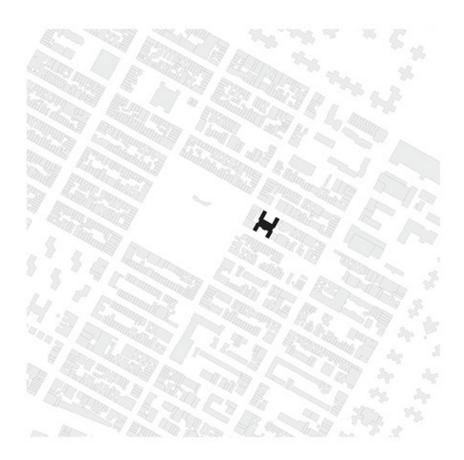




Inspired by Froebel's curriculum of using physical materials to explore three dimensional space. a series of abstract models are made to explore potential volumetric relationships: part-to-part, part-to-whole, part-to-outside, whole-to-outside.

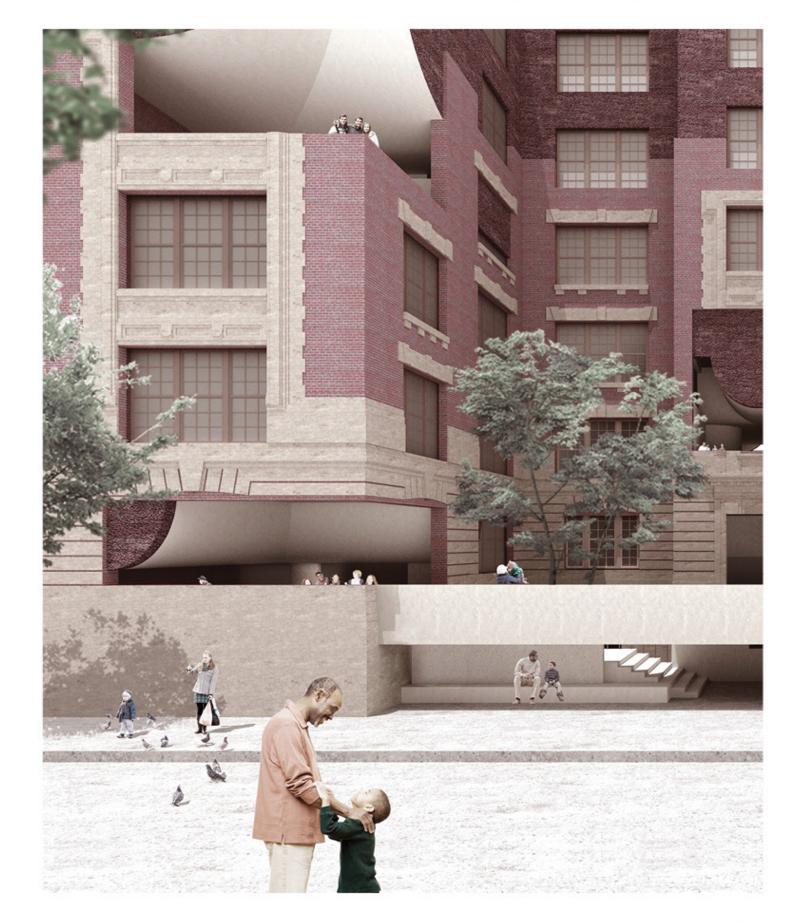
PUBLIC SCHOOL 64

CORE II, ERICA GOETZ, STUDIO GOETZ





The existing PS64 building has double height space with delicate cast iron columns. The proposal try to dance upon these elements and explore the potential of them. Started with prototypes that interweaves two sets of spatial systems, this project then futher differentiate the two weaving systems not only in spatial configuration but also in geometry that brings about contrasting spatial character.



PUBLIC SCHOOL 64 CORE II, ERICA GOETZ, STUDIO GOETZ



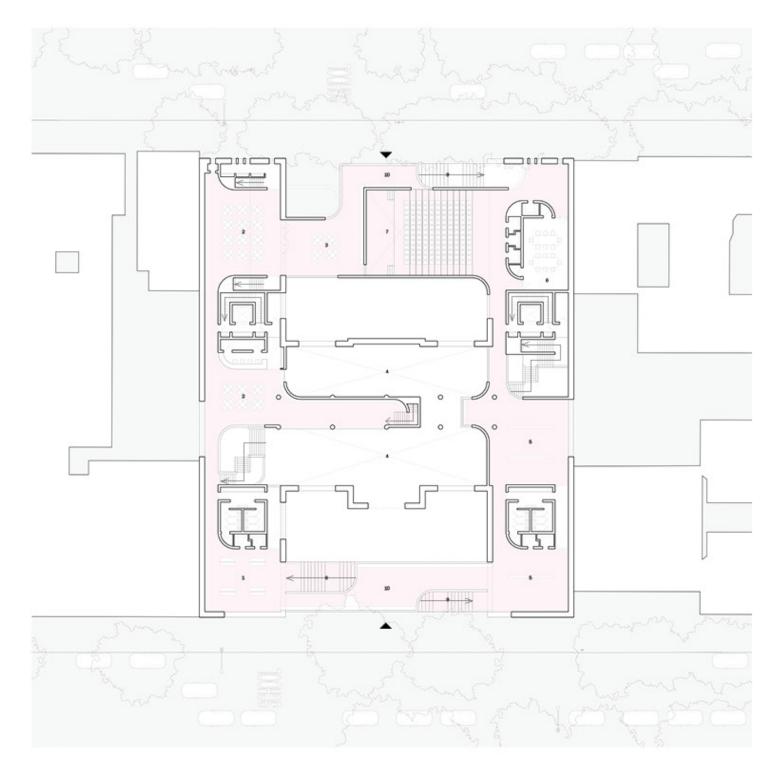
36

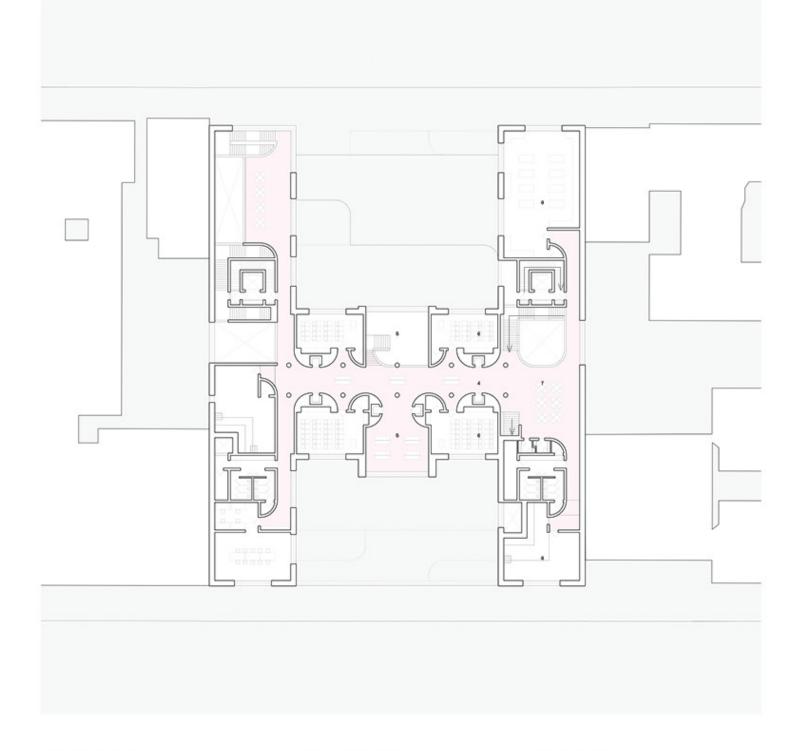
2 atrium

3 dining hall 4 exit to playground 5 library



PUBLIC SCHOOL 64





ENTRANCE LEVEL

1 reception

2 cafeteria

3 outdoor dining area

4 lower playground

5 gallery

6 community center

7 auditorium

8 school entry stairs

9 community entry stairs

10 outdoor terrace

SECOND LEVEL

1 dining area

2 medical station

3 office

4 learning street

5 flexible play space

6 classroom

7 atrium

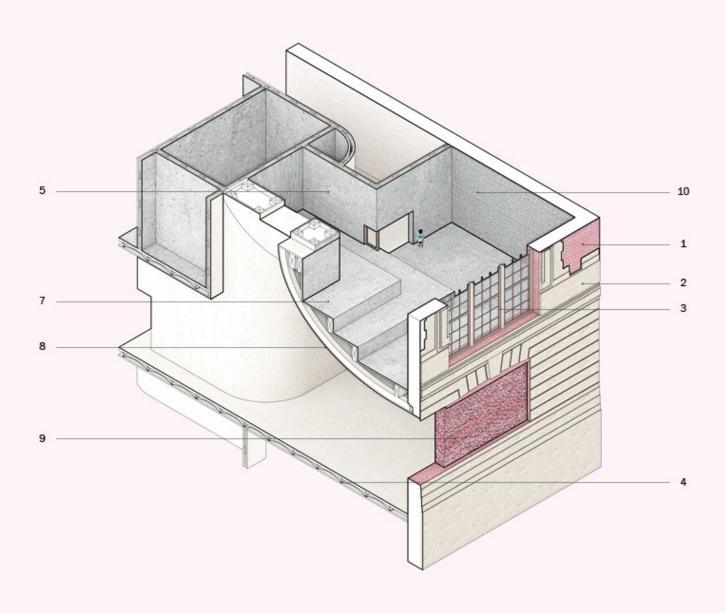
8 meeting room

9 shop / maker space

CORE II, ERICA GOETZ, STUDIO GOETZ **PUBLIC SCHOOL 64**





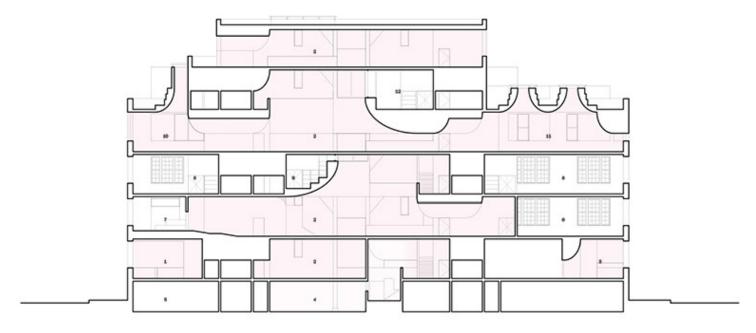


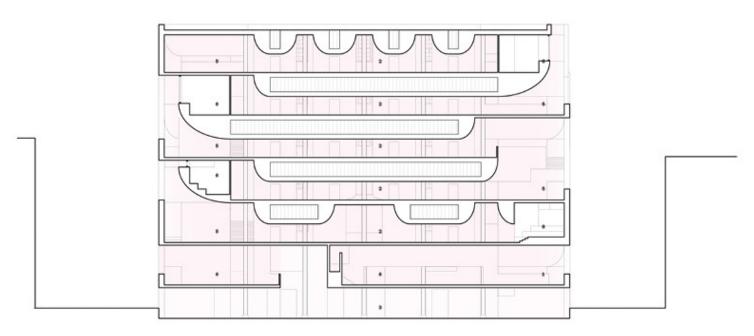
- existing masonry wall
 stone ornamentation
- 3 existing window frame4 existing floor plate

- 5 gypsum board6 curved timber frame
- 7 concrete flooring tile8 plaster finish

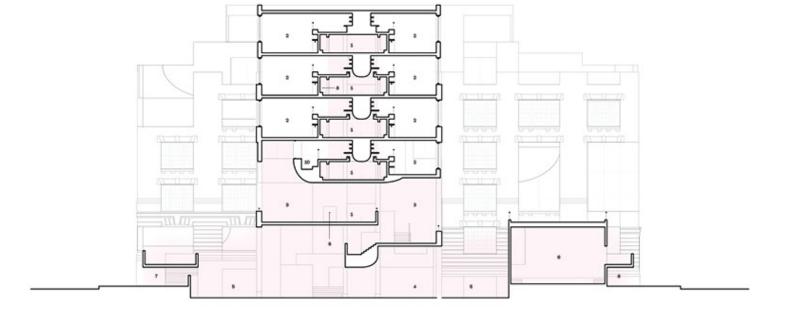
9 reused brick wall 10 painted brick wall

PUBLIC SCHOOL 64 CORE II, ERICA GOETZ, STUDIO GOETZ

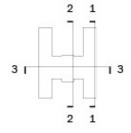




SECTION 1-1 SECTION 3-3



SECTION 2-2



SECTION 1-1

1	gal	lerv
-	541	ICI y

2 atrium / corridor

3 auditorium entrance

4 playground

5 kitchen

6 shop / maker space

7 meeting room

8 laboratory

9 refuse recycle room

10 music studio

11 art studio

12 meditation room

SECTION 2-2

1 learning street 2 classroom

3 flexible play space

4 playground 5 courtyard

6 auditorium

7 entrance

8 breakout space

SECTION 3-3

1 cafeteria

2 learning street

3 playground

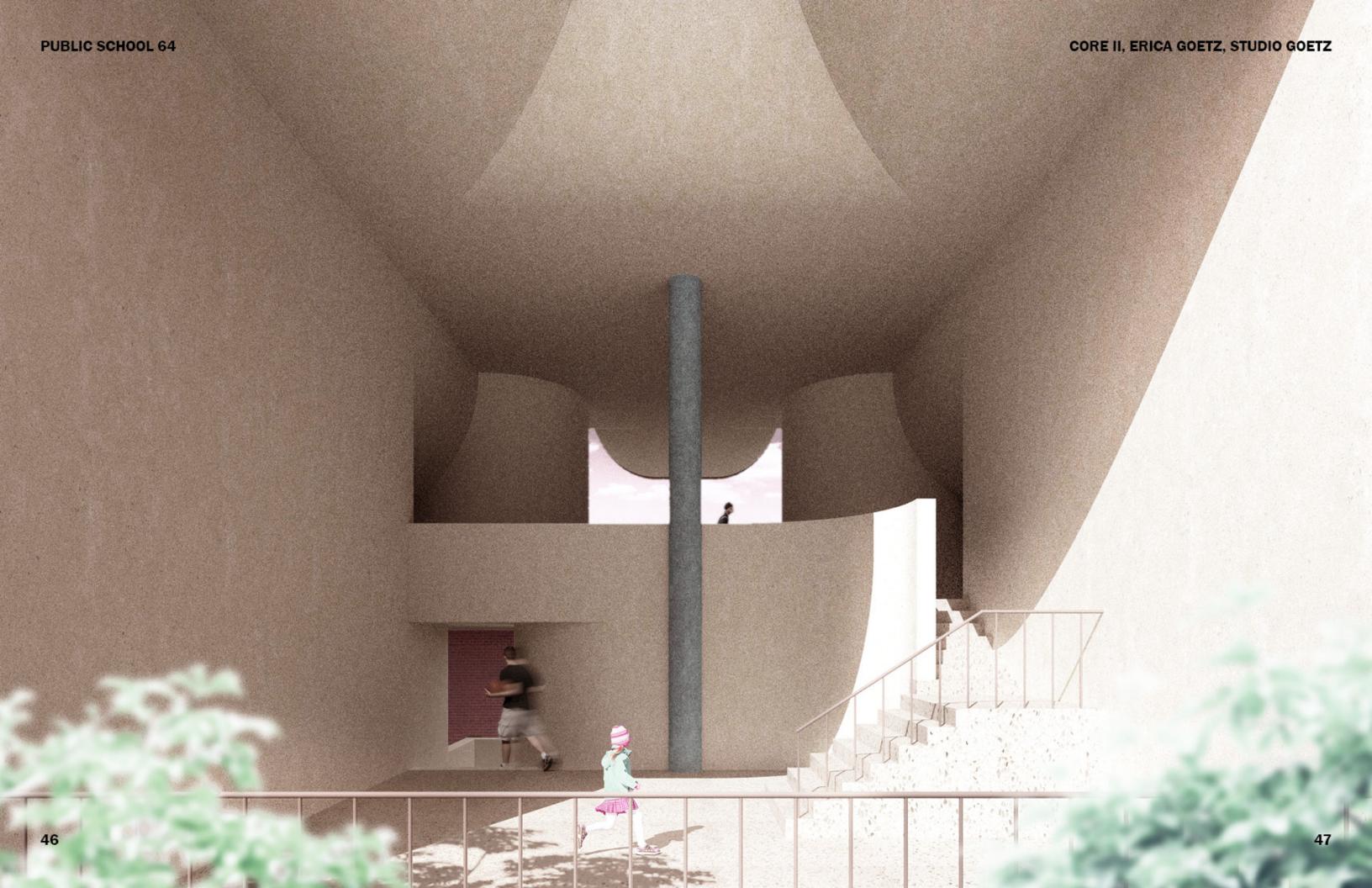
4 medical station

5 flexible play space

6 meeting room

7 flexible classroom

8 gallery





Material Research + Civic Space Design Fall 2021 Individual Work

PENN STATION EXTENSION

In order to establish new connections in the decentralized chaotic context, and to produce a new face of Penn station with which people can remember it, this project first utilizes the reflectivity of the polished black granite at an urban scale. The extension is a free standing, diamond looking object landed on the site. While maintaining the permeability of the site, it reflects and collects images from the surroundings and visually stitches the elements together, especially juxtaposing the Madison Square Garden and the Moynihan Hall, which respectively represent different eras and identities.

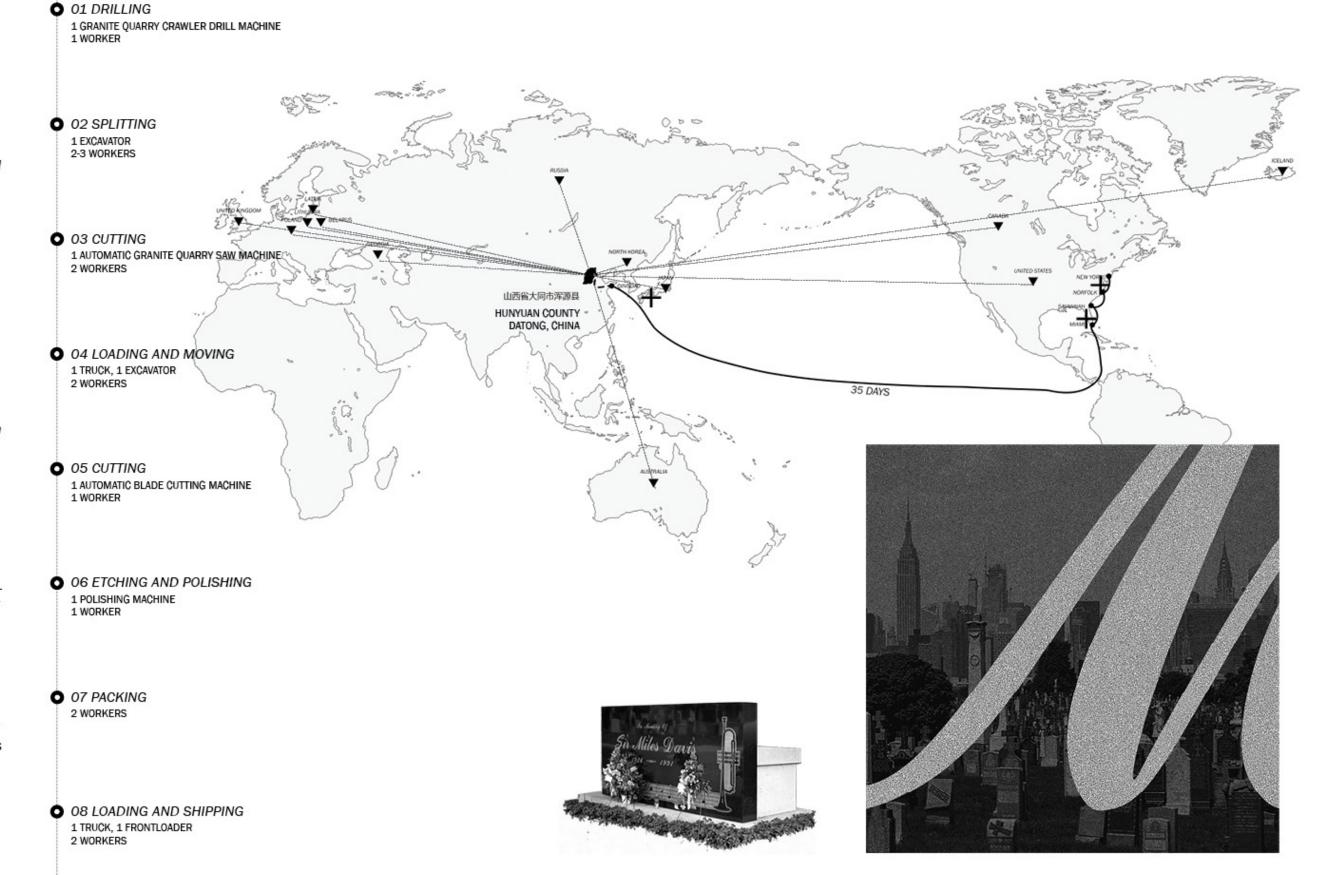
Inside the extension, this project tries to bring back the missing part of Penn Station after the demolition, in the form of an outdoor water garden. It acknowledges the part of Penn station as a machine of fast movement, and add back the part of Penn Station as civic space which is the opposite of efficiency. It created another reality, that allows a moment of repose, encounter or contemplation. It also contrast Madison Square Garden being not a garden.

In this studio I am given the task to choose and investigate one type of granite and bring it into the proposal for Penn Station extension.

This project is triggered by the investigation of the Miles Davis black granite tombstone in Woodlawn Cemetery in Bronx. It is fascinating to see the polished surface being so reflective that the etching on it can convey information without adding extra color. The contrast between rough and polished surface of the black granite is further explored and utilize in the Penn Station Extension.

Most of the black granite tombstone here in New York comes from
quarries in Shanxi China. Black granite
was drilled, splitted, cutted, moved to the
factory, then polished, etched, packed,
and then shipped to the US, which normally takes 35-40days. The most dense
quality Chinese black granite is known as
Shanxi Black. It is quarried at Datong with
production of 10K cu.m. per year worked
between February and October to avoid
the severe climate at the 2000m elevation. It is then shipped to various destinations across the globe.

Although black granite is popular in the use of countertops and other building capacities, it has traditionally been used for tombstones and other monumental items. Due to its durability and striking natural beauty, nowadays this material has also been used in many monuments, including Vietnam Memorials in Washington, Astronaut Memorial at the Kennedy Space Centre in Florida and Atom Bomb Victims Memorial in Hiroshima. These monuments utilize either the reflection of the polished surface to merge themselves into the natural surroundings, or the rough surface as dark and durable floor for moments of repose.





The main waiting room of old Penn Station., 1911

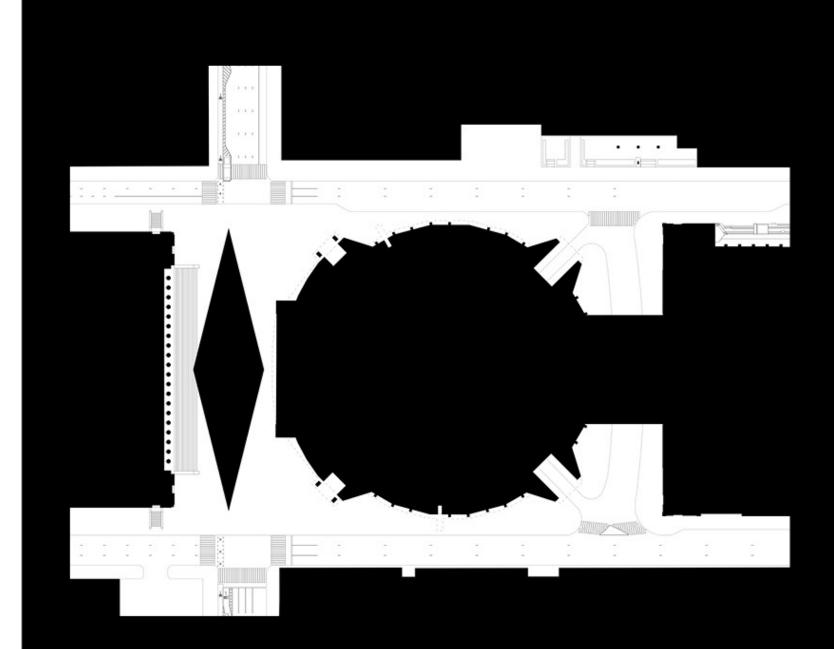


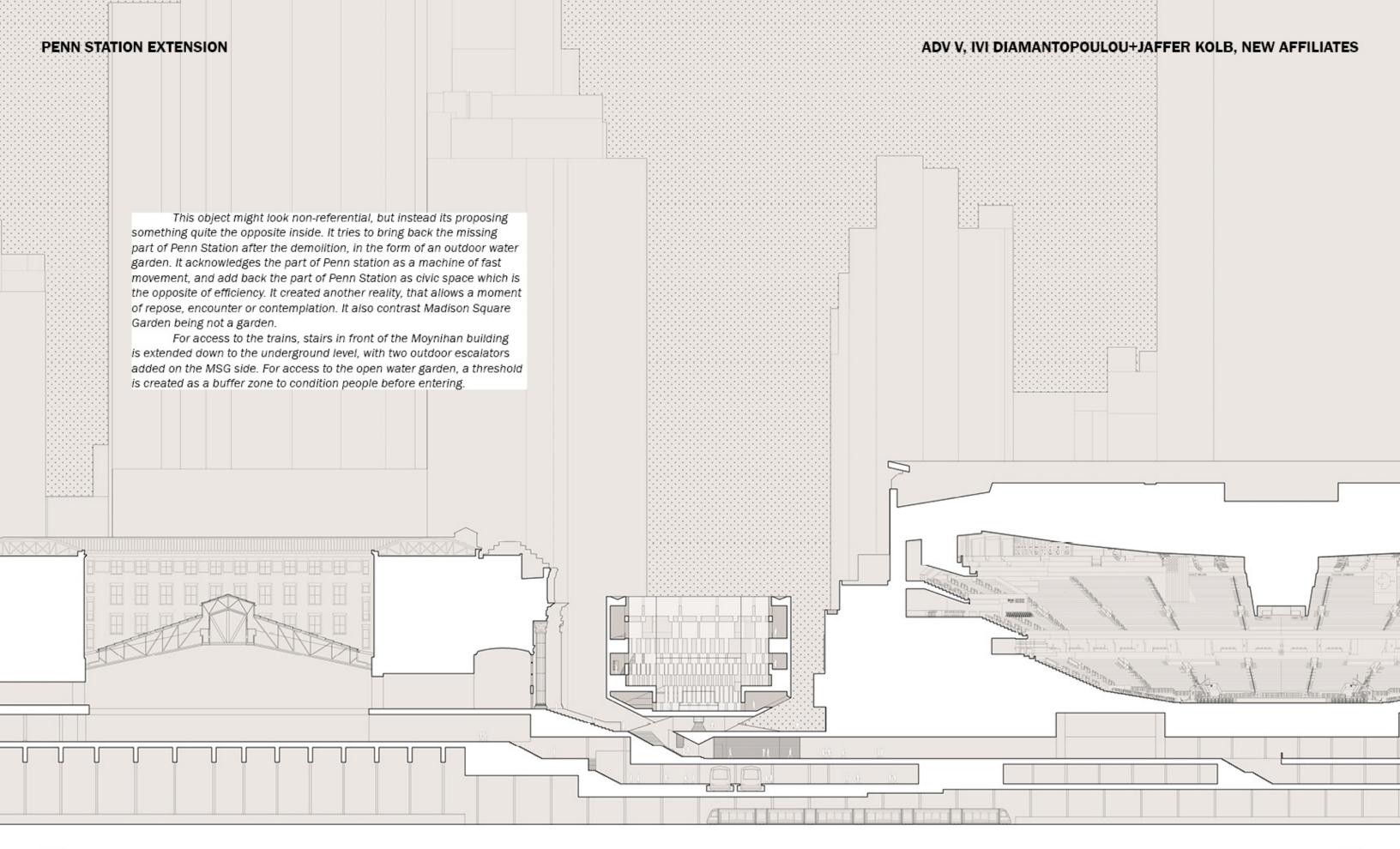
The demolition of Penn Station, 1964-1965

The old Penn station used to be an urban living room, where people gathers. Whereas, in 1964, Penn Station went through the demolition, with Madison Square Garden landing right on top of the train level. The main waiting room with which people remember Penn Station, then no longer exist. The current station is purely driven by efficiency of movement, without any extra place to stay.

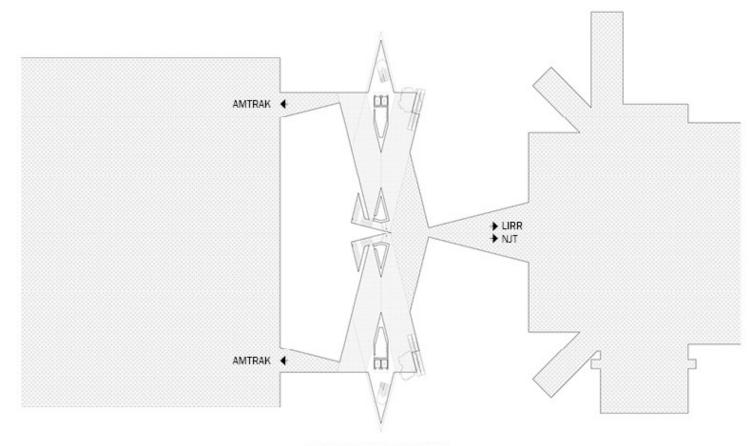
I start to think about how black granite - a very monumental, memorial, everlasting material, would situate itself within the temporary, fast changing, chaotic context at the existing Penn Station

In order to establish new connections in the decentralized chaotic context, and to produce a new face of Penn station with which people can remember it, this project first utilizes the reflectivity of the polished black granite at an urban scale. As shown in the figure ground drawing, the extension is a free standing, diamond looking object landed on the site. While maintaining the permeability of the site, it reflects and speaks to the context with its angled surfaces. It collects images from the surroundings and visually stitches the elements together, especially juxtaposing the MSG and the Moynihan Hall, which respectively represent different eras and identities.





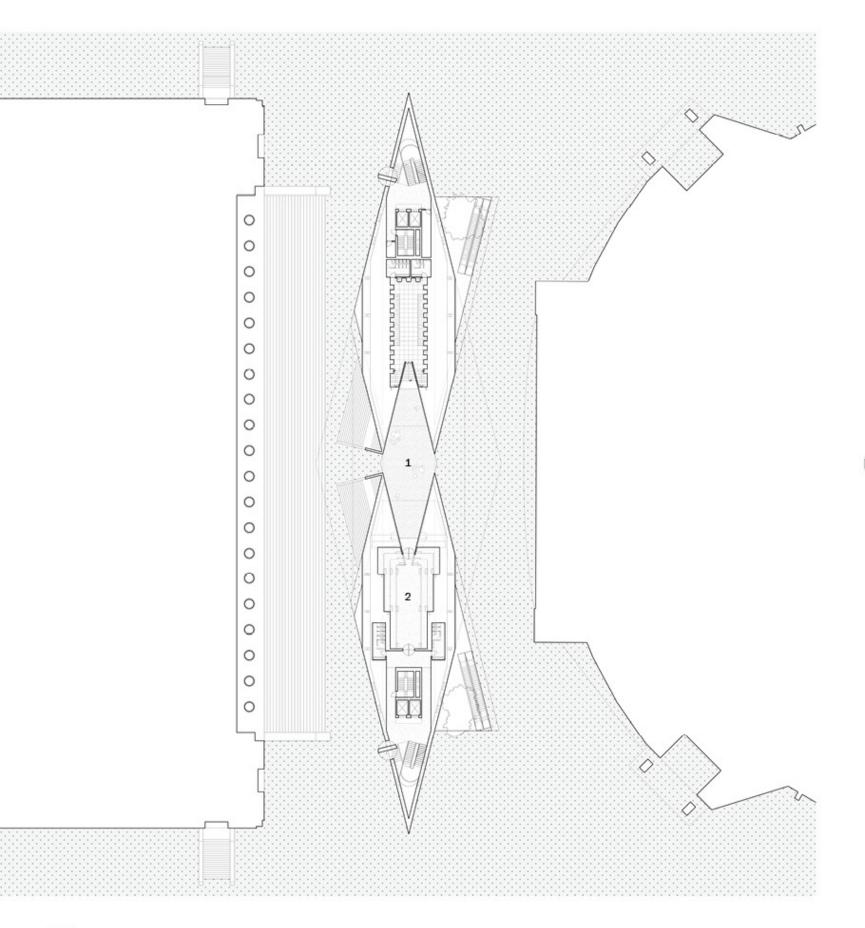
ADV V, IVI DIAMANTOPOULOU+JAFFER KOLB, NEW AFFILIATES

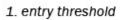


UNDERGROUND LEVEL

Apart from visually tying things together, the extension also shelters the new open shortcut to enter the station. With its angled reflective surfaces, it creates visual and circulational connections across levels, drawing people's attention to this new entry way.







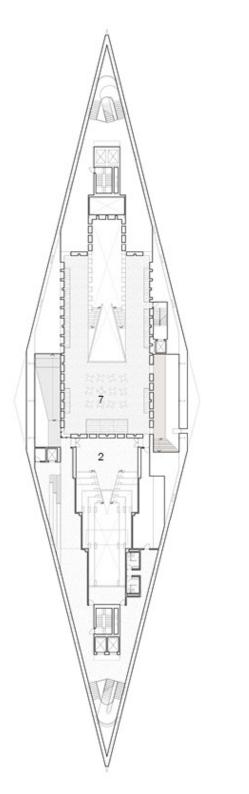
- 2. auditorium
- 3. gift shop
- outdoor gathering
 meditation space
- 6. tea room
- 7. water garden

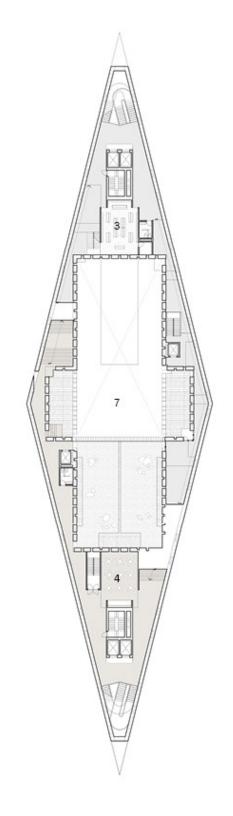


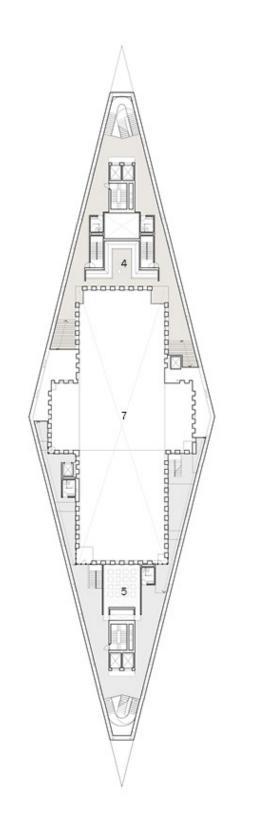
entry threshold
 auditorium
 gift shop

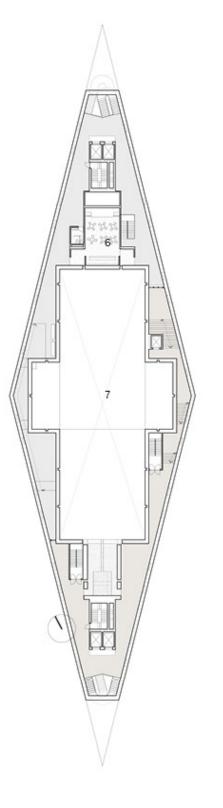
outdoor gathering
 meditation space

6. tea room 7. water garden



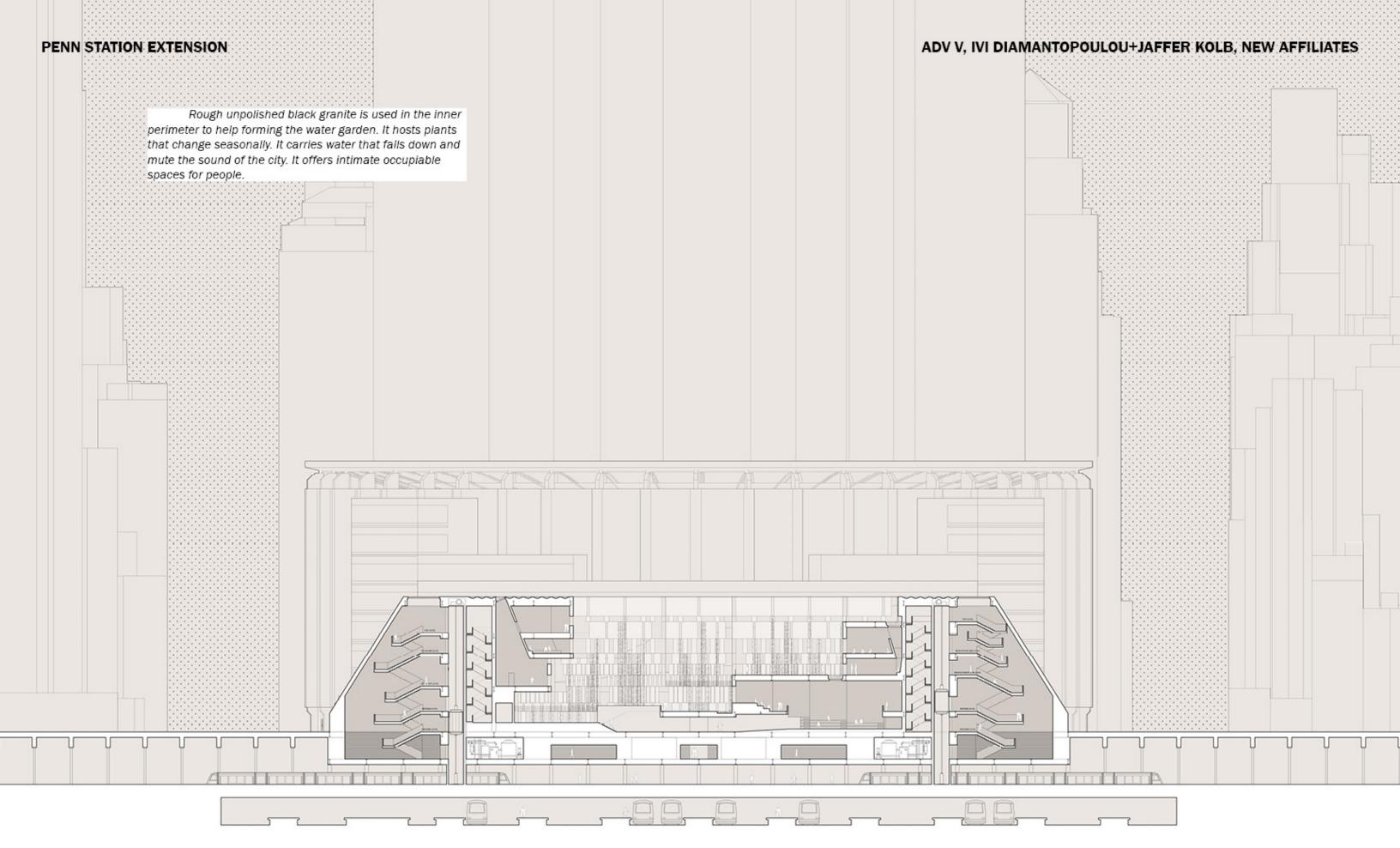




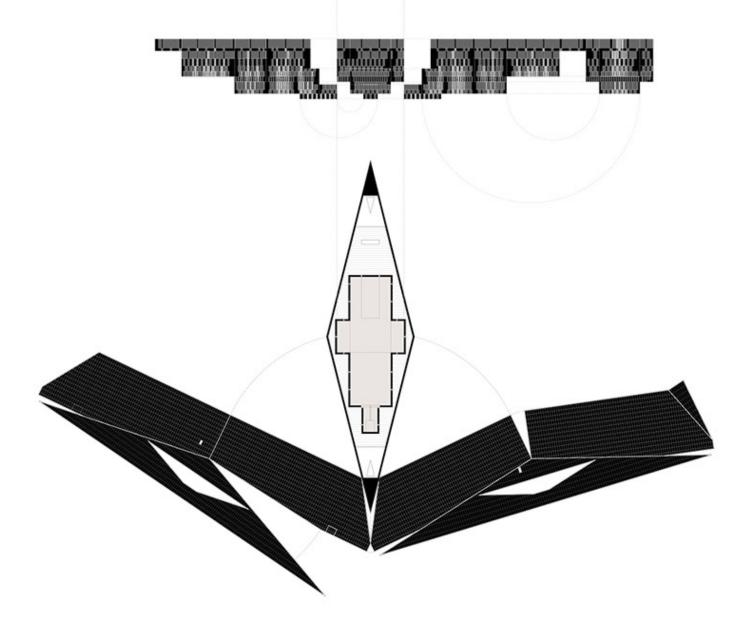


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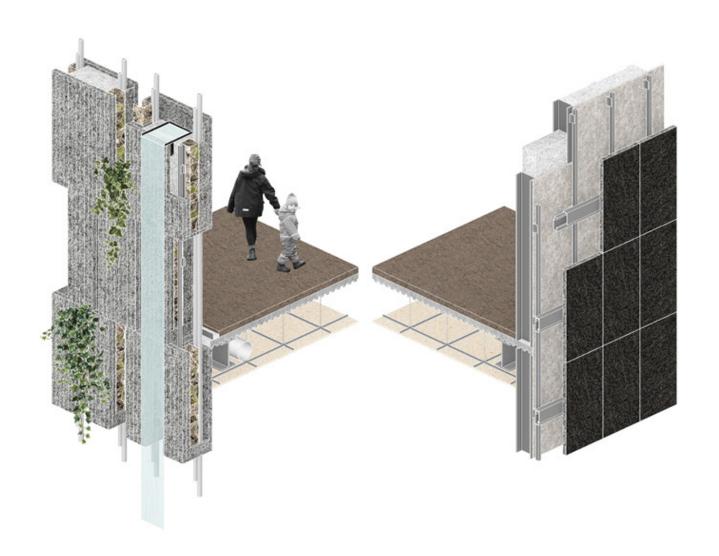
INTERIM LEVEL 3RD LEVEL 5TH LEVEL 5TH LEVEL



UNROLL ELEVATION OF INNER PERIMETER WITH UNPOLISHED BLACK GRANITE

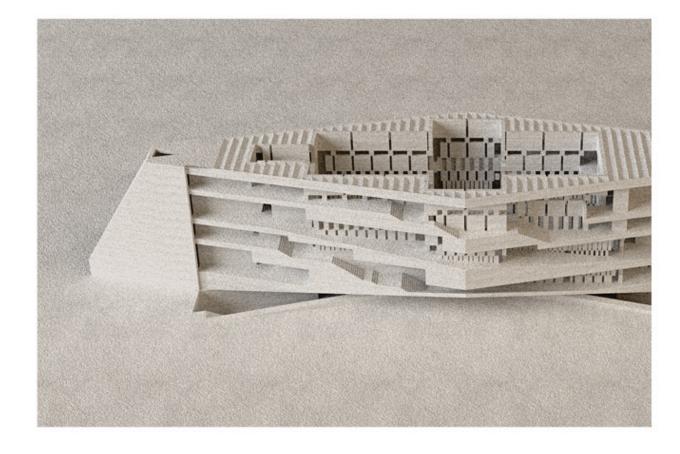


UNROLL ELEVATION OF OUTTER PERIMETER WITH POLISHED BLACK GRANITE



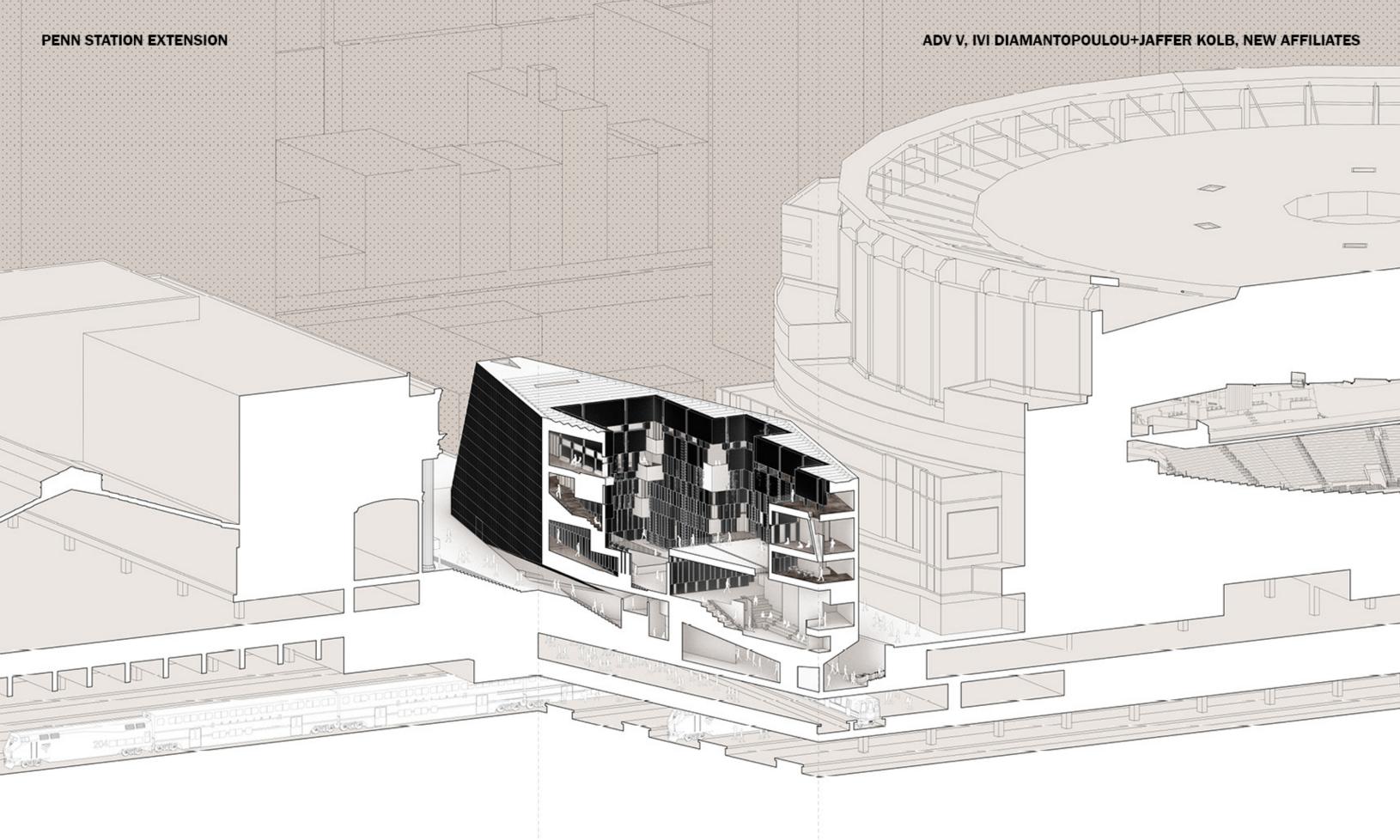
Two types of walls in the project uses black granite in two different way. One utilizes polished surface to speak to the surroundings. The other uses rough surface to construct a water garden.

In the specific context of Penn Station, black granite establish visual and circulational connections, and add back a civic space that has been missing after the demolition of the old Penn Station.



In between the inner perimeter and the outer perimeter, there are two intertwining circulations that connects all the indoor and outdoor programs including reading area, meditation hall, tea room and gift shop. The outdoor circulation is designed with stairs, while the indoor uses ADA accessible ramps, adaptable to be a gallery space.







Fall 2020

Teammate: Jiafeng Li

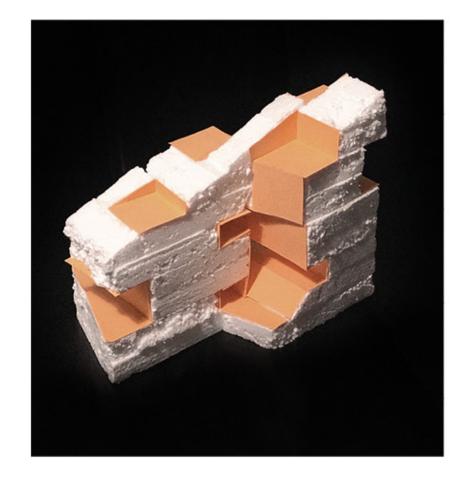
HOUSING COMPLEX IN SOUTH BRONX

This project articulates 'room' across scale, from city to building, to unit, to architectural element, to furniture, to body.

Located in South Bronx, NY, with the need for internalized protected open space for child care in the neighborhood, this project unlocks the interstitial spaces on the site and give it back to the community. Through both carving in and aggregating out, the project seeks duality of difference versus consistence, diversity versus efficiency, variation versus repetition.







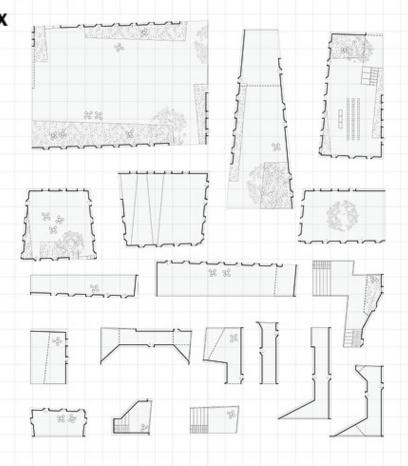
Located in South Bronx, this housing project is surrounded by P.S. 001 Courtlandt School, X381 Bronx Haven High School and other children daycare centers. From the site visit we learn that there is a urgent need for internalized open space for children's daycare and after school activities. We identify the void spaces inside the residential blocks as enclosed open space, which can potentially be transformed into spaces for children. Therefore, our first approach is to carve out interconnected urban rooms at different scales. In doing so, we unlock the interstitial space of our site and give it back to the community.



HOUSING COMPLEX IN SOUTH BRONX

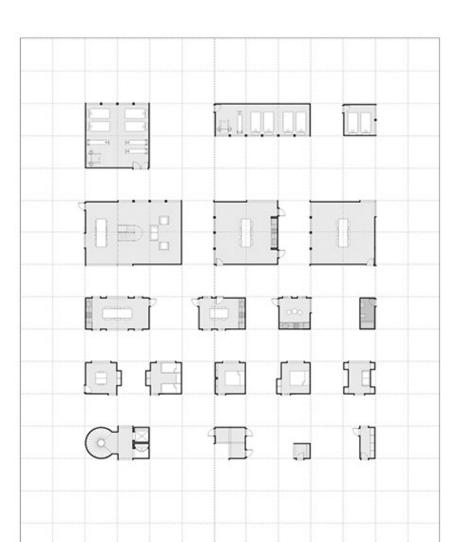
CORE III, ERIC BUNGE, NARCHITECTS

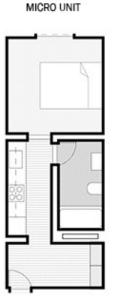
10ft



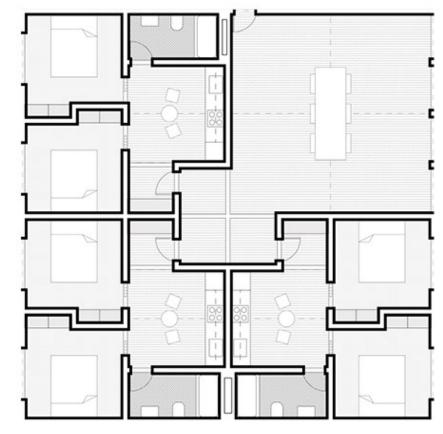
Through carving in, series of urban scale rooms are created to accommondate various need for outdoor space, from room for community event, to the middle scale courtyards for small gatherings, and to the small scale for intimate conversation.

At a micro scale, rooms we occupy everyday are listed out as elements to be recomposed and rearranged, from a transistional room like a foyer or a stairs, to the room with a full size bed, room with plumbing fixtures and to the rooms that are shared with multiple users.





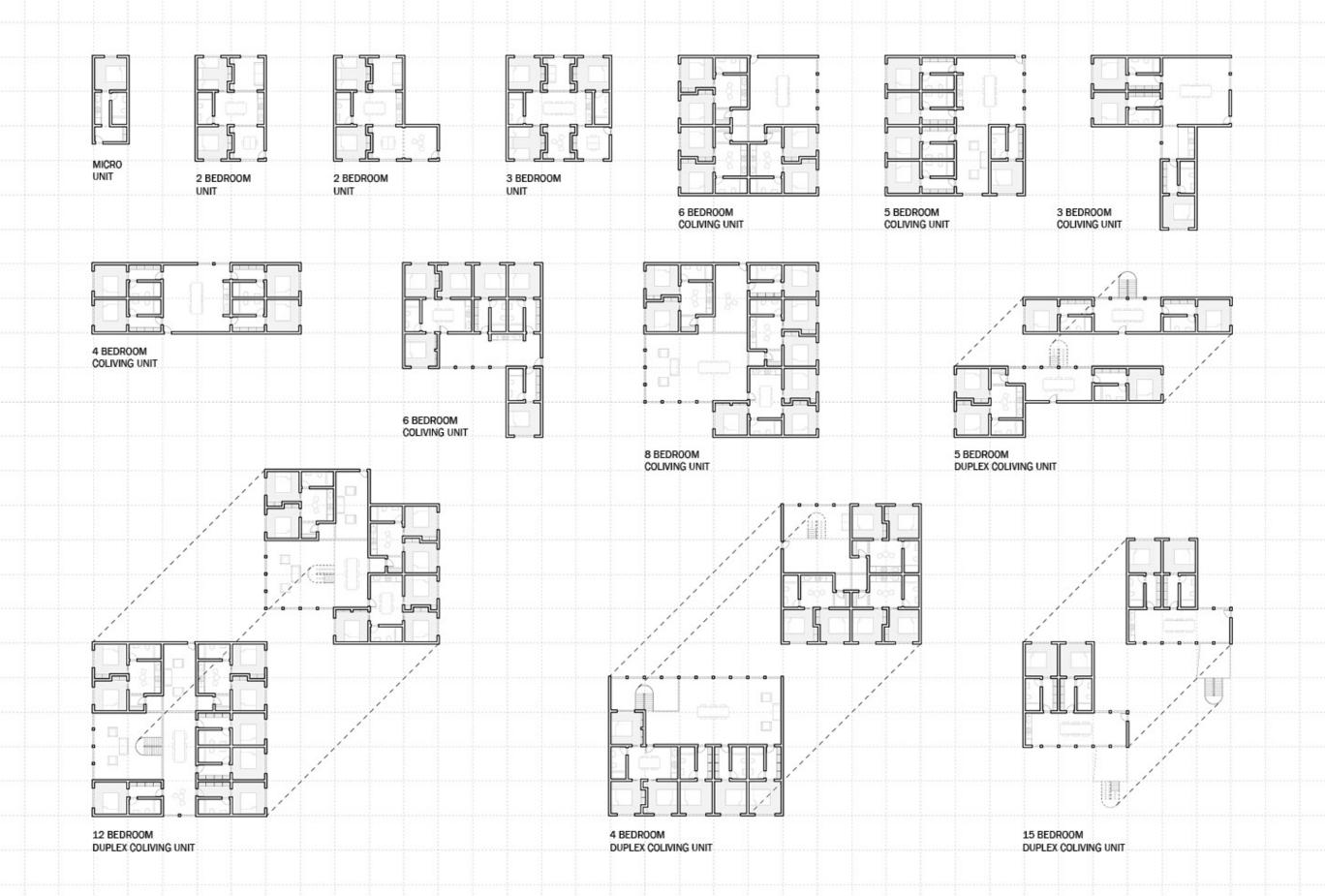
Through aggregating out, a variety of units are created, from micro to 2b 3b, and to various types of coliving units. With these essential rooms for daily living, this project explore not only the minimal living unit, but also the possiblity of living together.

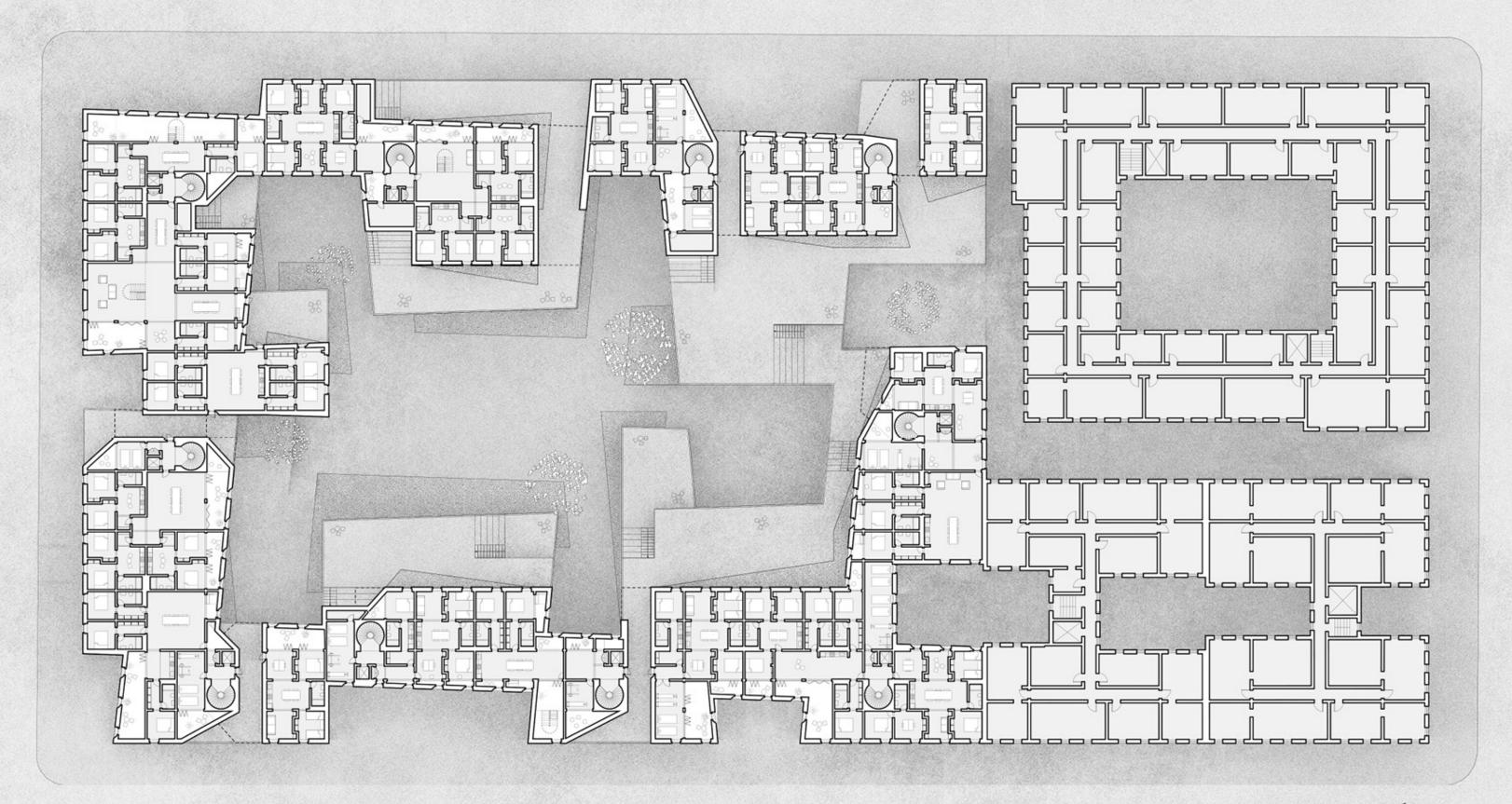


6 BEDROOM COLIVING UNIT

HOUSING COMPLEX IN SOUTH BRONX

CORE III, ERIC BUNGE, NARCHITECTS

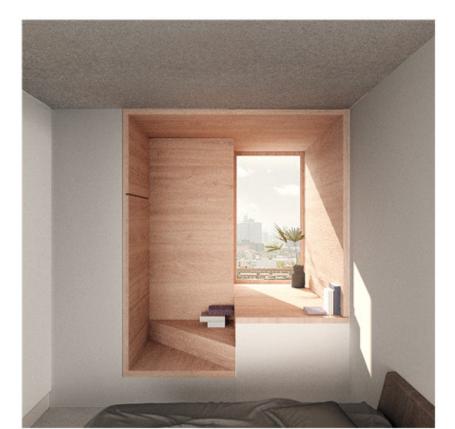








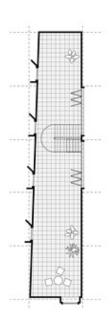
1-3ft: thick window



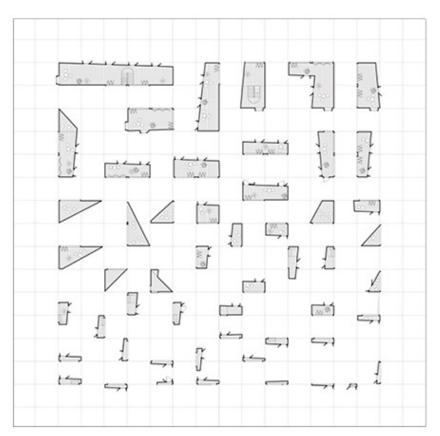


3-5ft: alcove window





5-10ft: balcony



Through carving in and aggregating out, the two sets of geometry intersect and generated a third layer of space in between. This layer consists of intimate rooms between the inside and outside. We classify these intimate spaces based their depth, defining them as various types of occupiable poche. Materials are used to distinguish such space from the rectangular interior rooms.



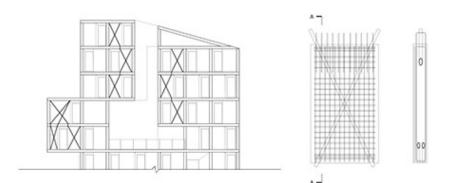


The roof is carved with different angles to maximize sunlight both for the residential units and for the internalized outdoor space that is shared with the community outside this housing block.

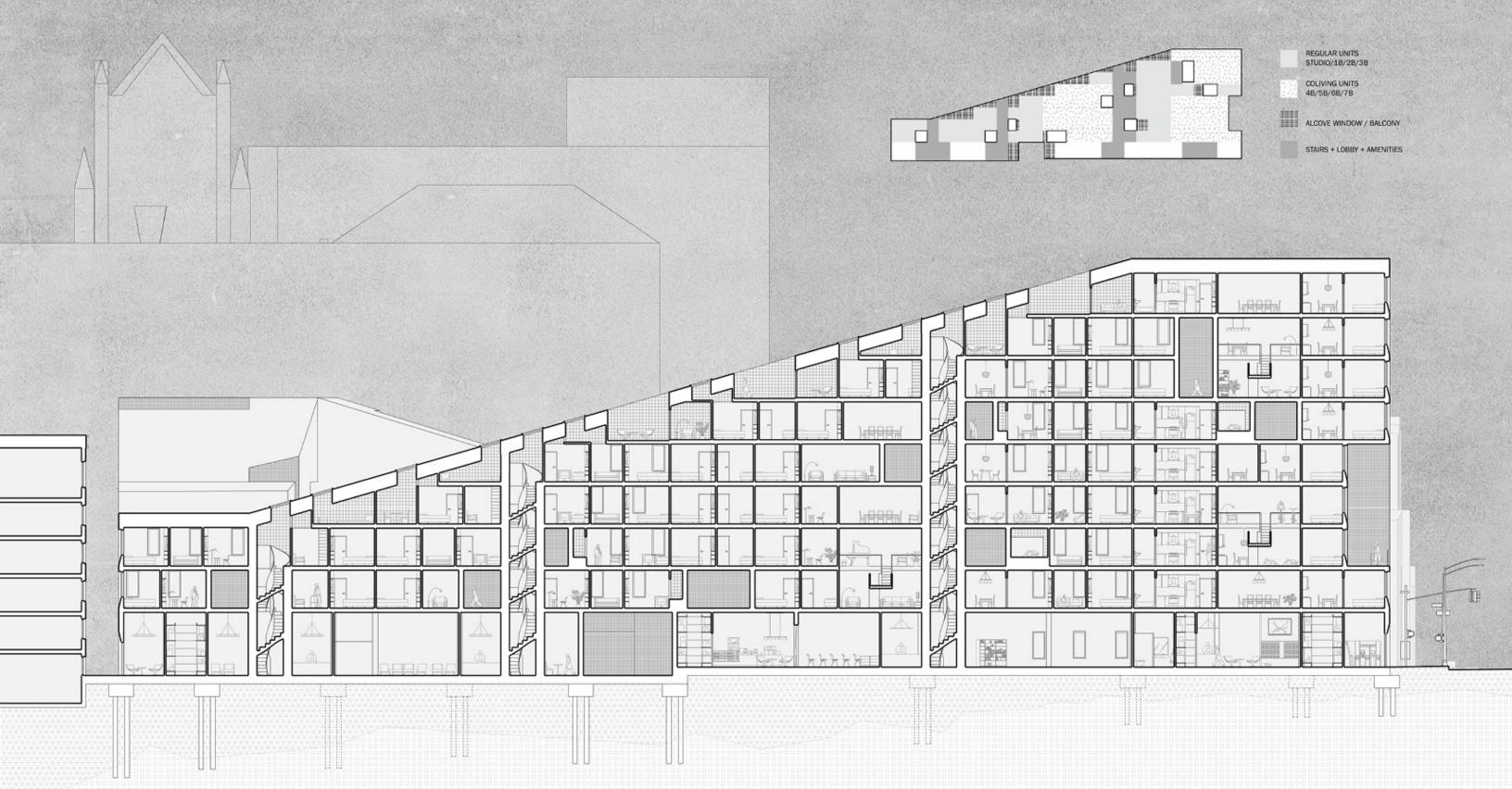
Similar to the occupiable poche in plan, here the external cut intersects with the internal residential grid vertically. Together, they create another buffer layer between indoor and outdoor. This layer consists of skylights and intimate pocket balconies. Through the use of materials, these spaces are distinguished from the interior rooms.







Bracing is incoporated in the checker board facade pattern to support cantiliver corners.

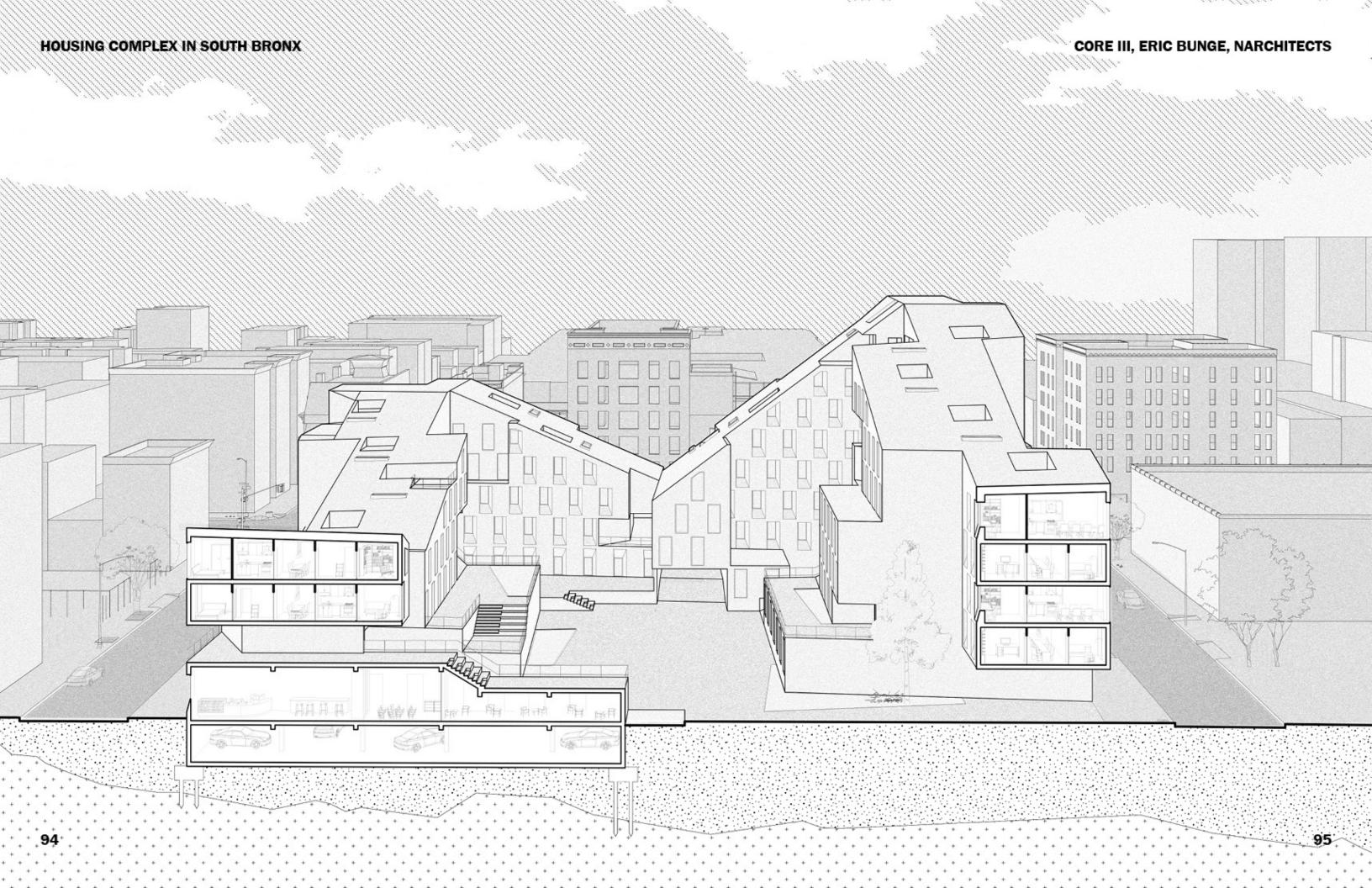


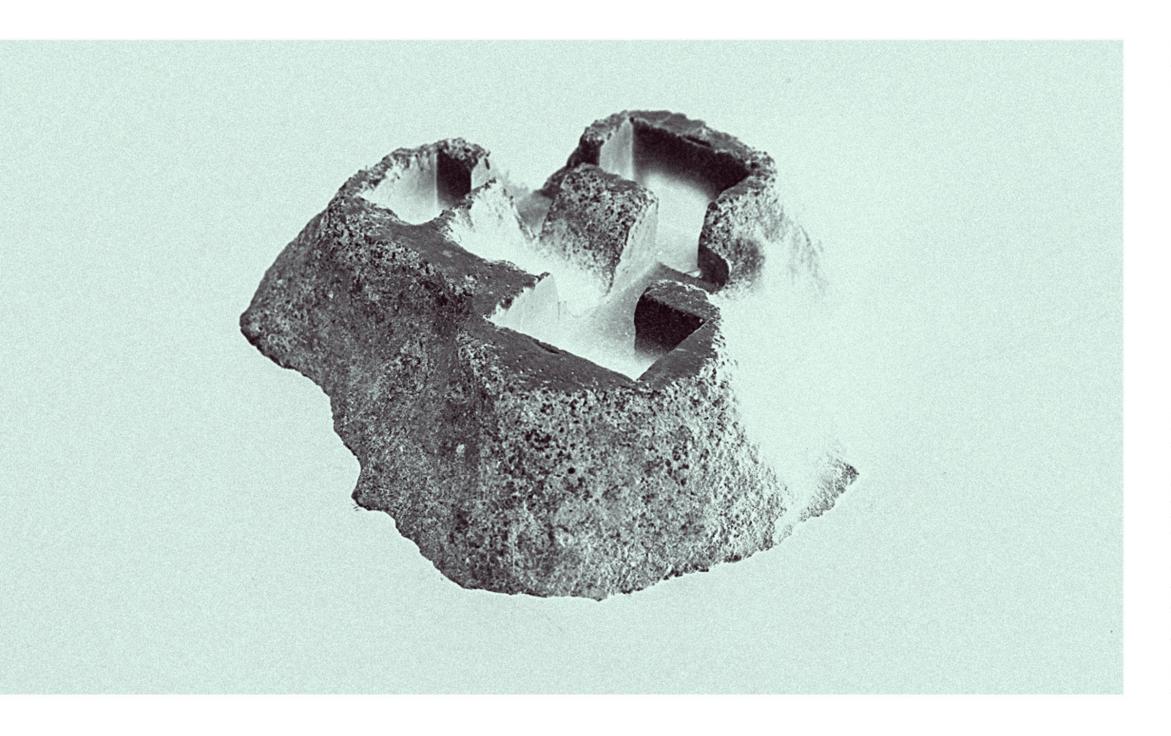






Refletive material at the threshold brings the living image of the side walk inside the protected courtyards. Visual connections are established here to balance the enclosure for safety puropose. Through the approach of massing configuration, circulation design and material usage, the inner space of our proposed residential block is unlocked and given back to the children around.





Islamic Cemetery Spring 2021 Teammate: Aya Abdallah, Nash Taylor

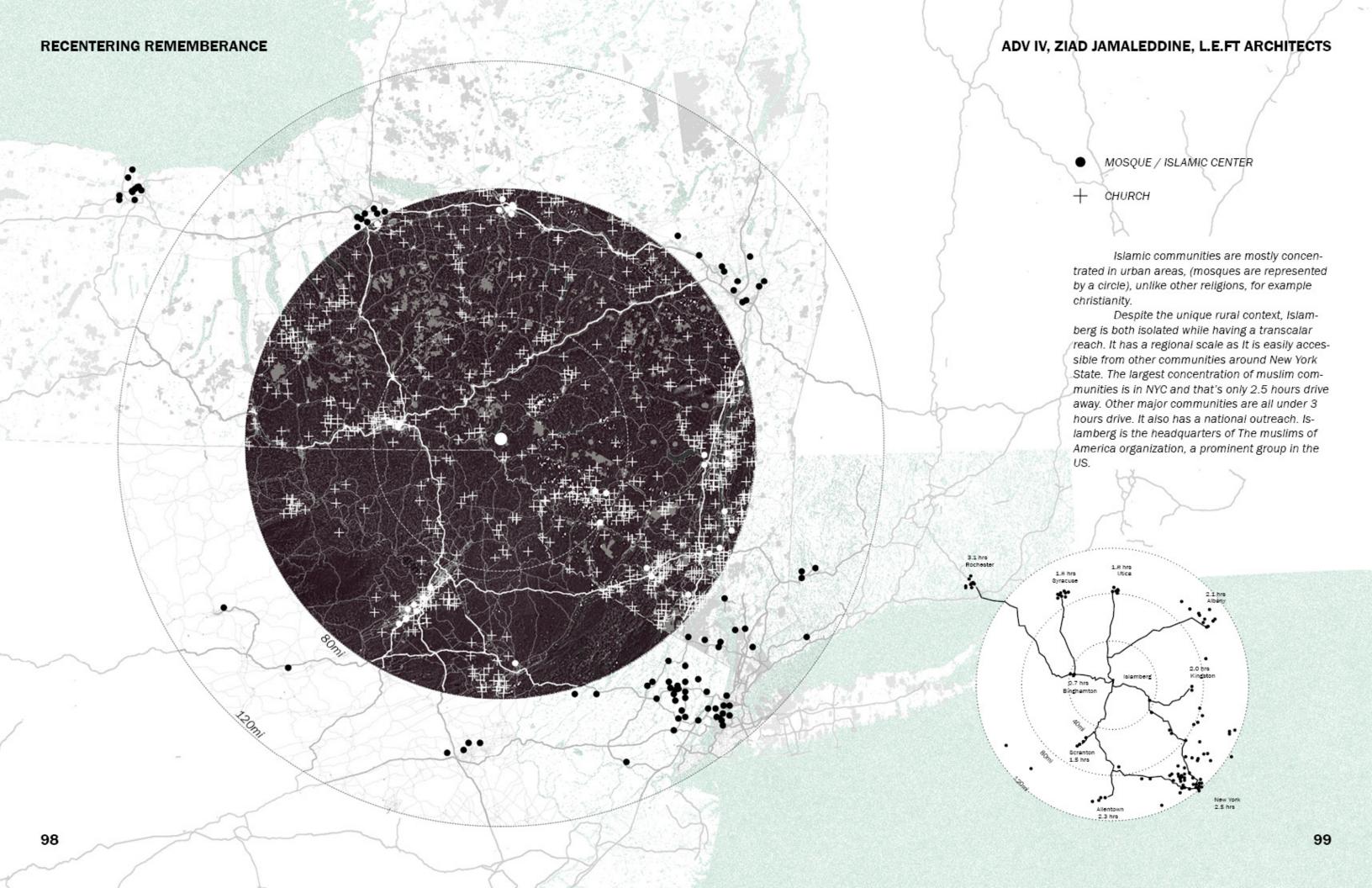
RECENTERING REMEMBERANCE

Through the addition of a new 'sacred' infrastructure, Islamberg is being 'recentered' within the regional muslim community. Starting as a peripheral small town, it becomes a place of sacred importance through time and burial.

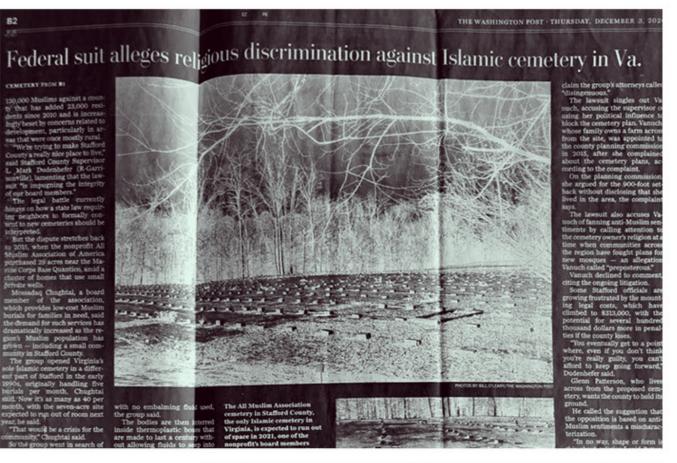
Islamberg is a small hamlet in upstate New York, hosting a population who migrated from the big city several decades ago to practice Islam in peace. Through a system that uses contaminated soil from regional brownfield sites, a cemetery is built in a nearby quarry.

The soil is first remediated on site and then used for burial of muslims from the nearby towns. Through time and burials, other structures are needed to support the new sacred infrastructure; a place to wash and pray over the body as well as a place to meditate and mourn. These structures use the newly remediated soil as a means of architectural formwork.

The project aims to re-center Islamberg among its larger Islamic urban context, re-center sacredness and heal the land-scape.



RECENTERING REMEMBERANCE ADV IV, ZIAD JAMALEDDINE, L.E.FT ARCHITECTS



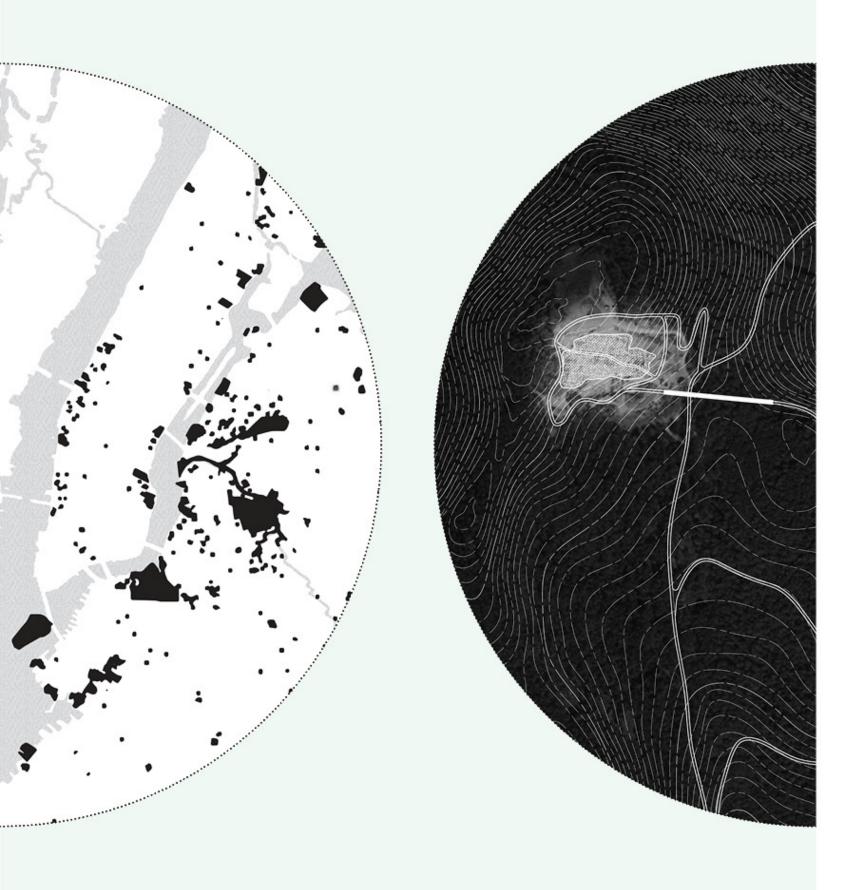
Federal suit alleges religious discrimination against Islamic cemetery in Va December 3, 2020

We chose the quarry as our site for the cemetery. It's about 1 mile away from Islamberg, which is a 2 min drive or 17 mins walk. Compared with other popular and recognizable cemeteries, the scale of our site fits into the scale of the project and the outreach that it is targeting.

The stark contrast between the soft rural landscape and the hard surface of the quarry brings us to a challenge - where do we bring the soil used for the quarry?



ADV IV, ZIAD JAMALEDDINE, L.E.FT ARCHITECTS









Excavate contaminated soil in New York City Transportation of soil from NYC to quarry location Building the burial grounds with the remediated soil Healing of the landscape

2800 contaminated sites in New York City = 500 M cubic feet of soil Distance NYC to quarry = 156 miles 5 acres of quarry needs 1.5 million cubic feet of soil = Total of 540 graves (3'x 9'x 6')





Angle of Repose: 45 - 60

Used for: -Interior Formwork -Base of Grading -Areas with water



Semi Coarse Soils

Angle of Repose: 30 - 45

Used for: -Exterior Formwork -Topsoil -Grading in Flat Areas

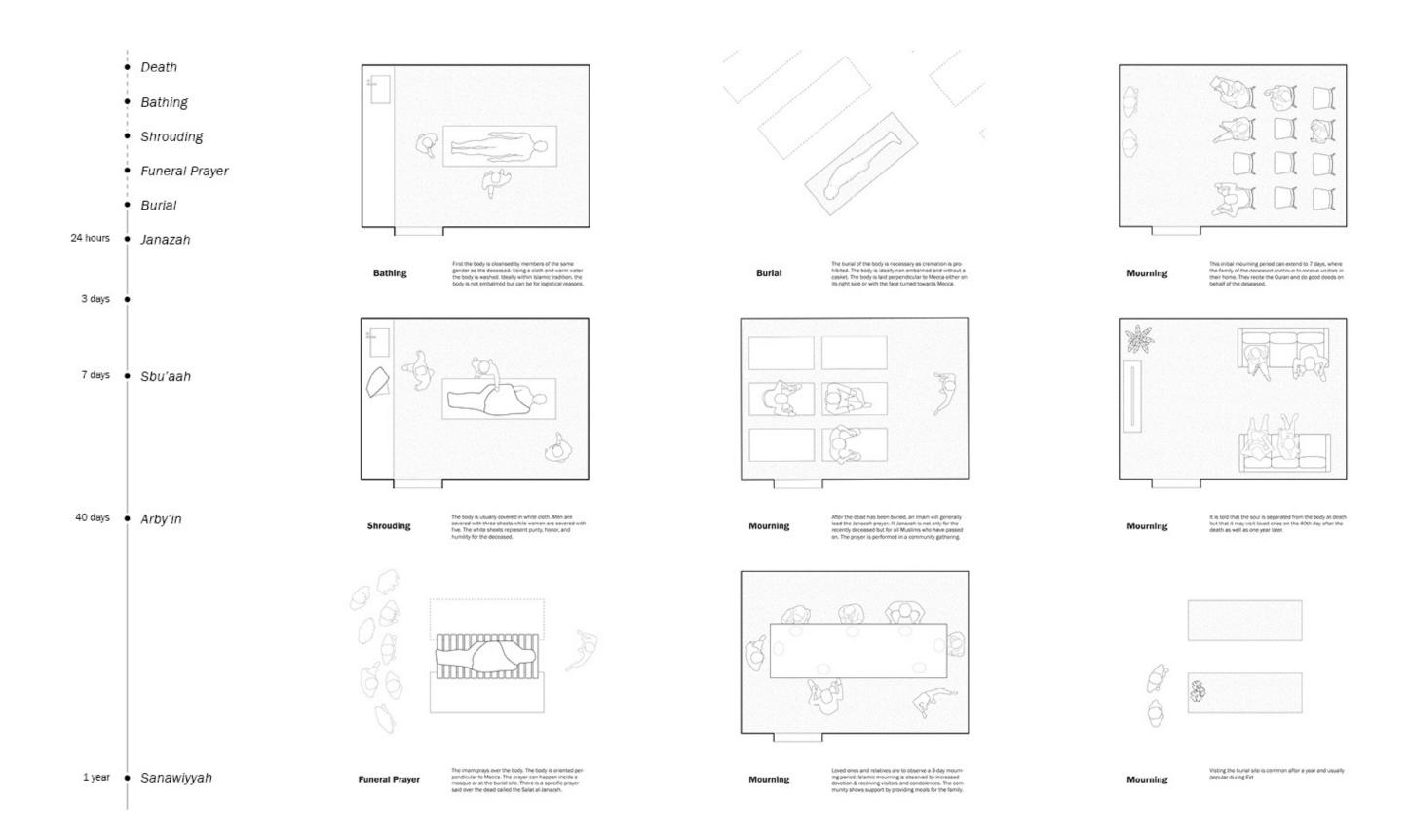


Fine Soils

Angle of Repose: 20 - 30

Used for:
-Exterior Formwork
-Smooth layer of Formwork
-Topsoil if Fertile

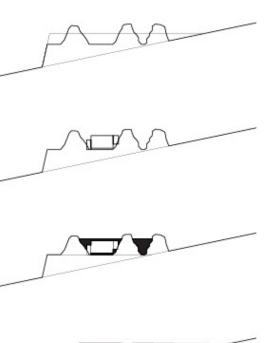
Soil is excavated from different parts of the region, and therefore there is a range of soil types brought to the site. The different types of soil lend themselves to different angles of repose and texture. This therefore determines the soil type as formwork, or fill, or both.



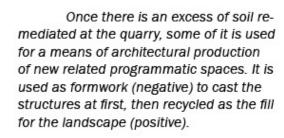
RECENTERING REMEMBERANCE ADV IV, ZIAD JAMALEDDINE, L.E.FT ARCHITECTS





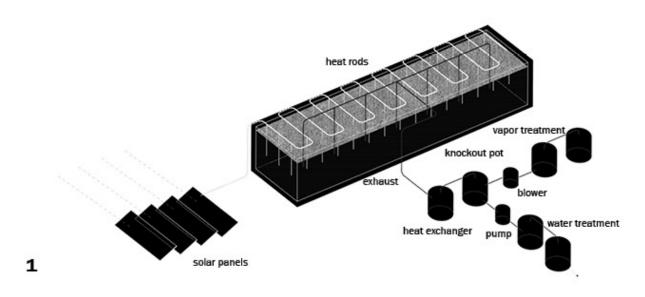


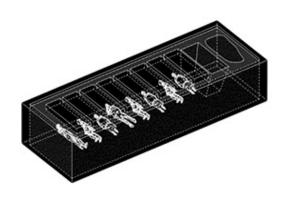






2



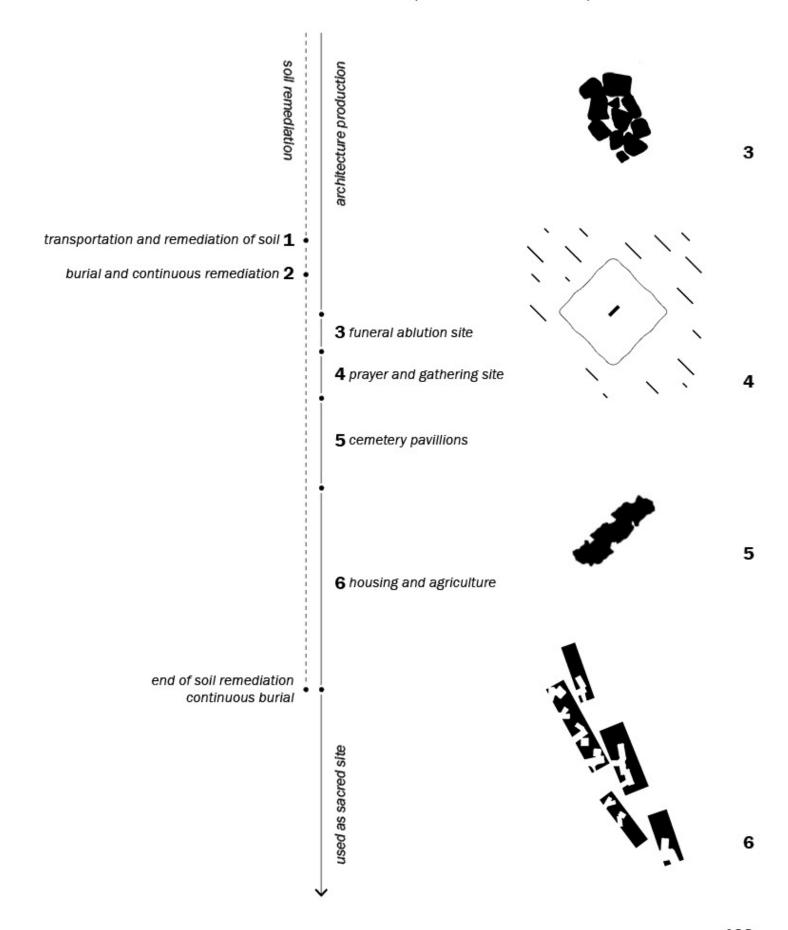


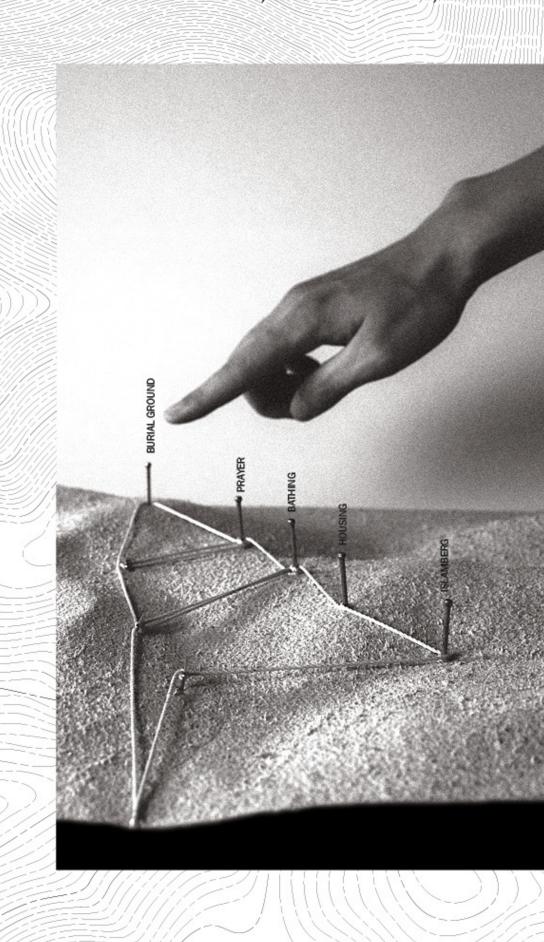
vapor removal of hydrocarbons - stablization - burial

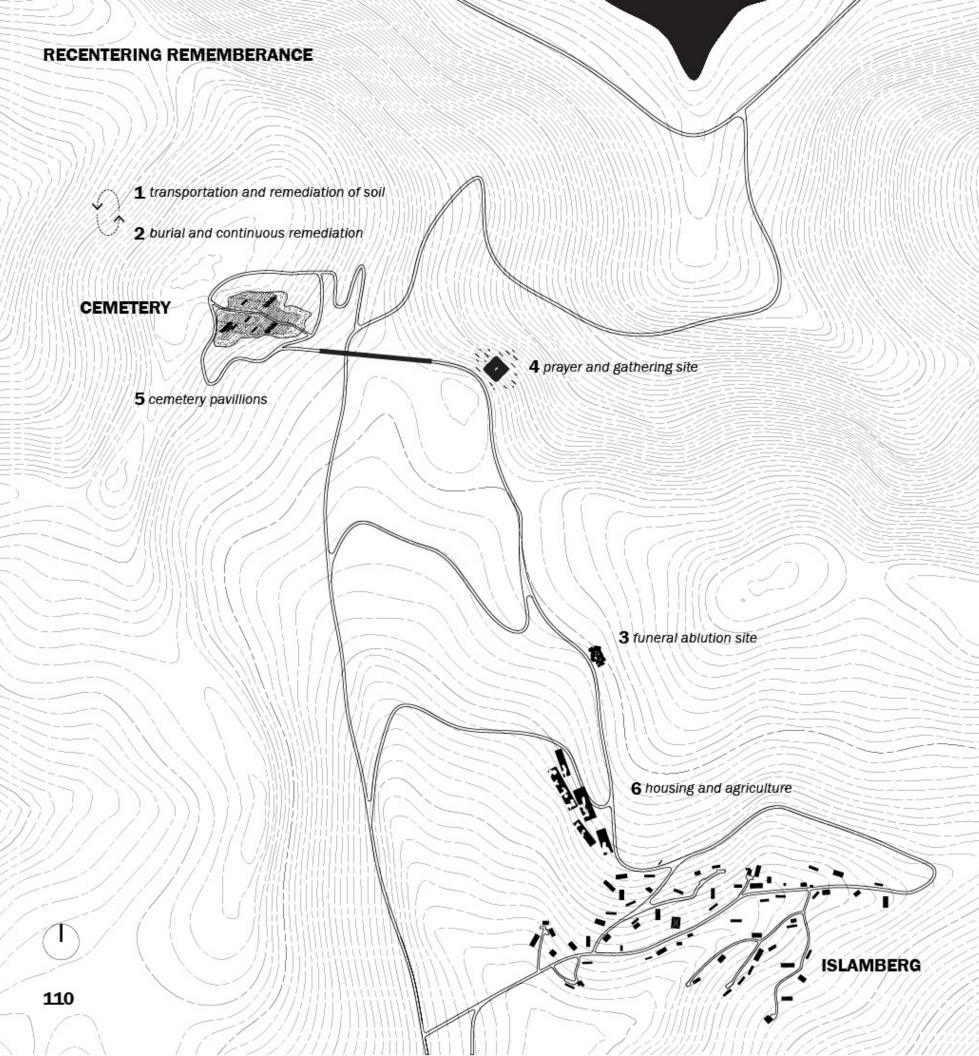
The first phase is the transportation of the soil from the different regional contaminated sites to the quarry. The soil is then remediated on site through a hydrocarbon focused remediation process that uses mostly heat and vaporization of toxins. Once the soil is remediated and stabilized, it can now safely be used for burial. Simultaneously, soil is continuously being brought on site and being remediated.

Once there is an excess of soil remediated at the quarry, some of it is used for a means of architectural production of new related programmatic spaces. It is used as formwork (negative) to cast the structures at first, then recycled as the fill for the landscape (positive).

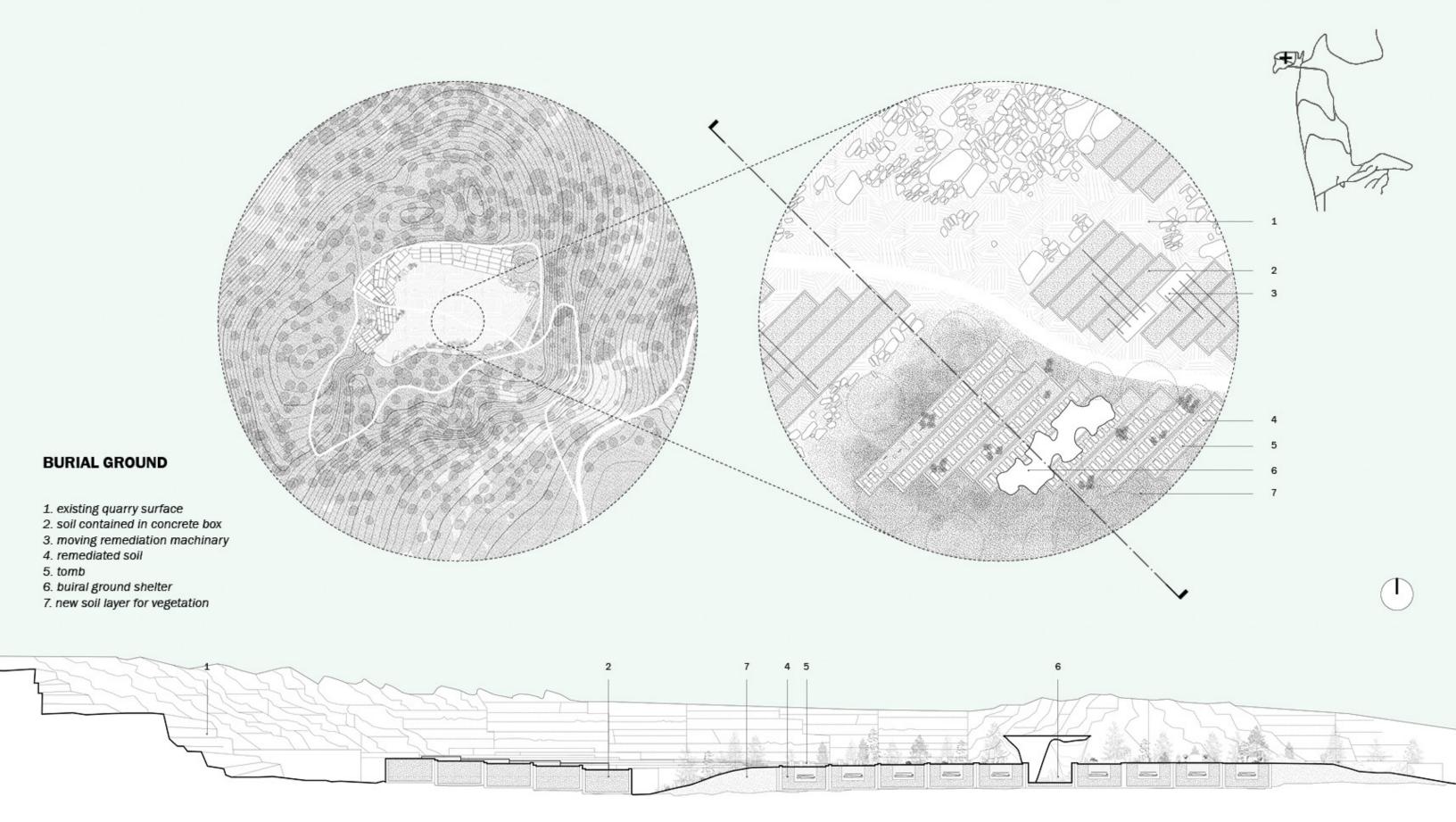
Over the years, as more soil is being remediated, it can be used for the construction of adjacent housing to host visitors to the cemetery as well as provide new agricultural terraces for Islamberg to use. As Islamberg grows, they can start to take over these new structures.







RECENTERING REMEMBERANCE ADV IV, ZIAD JAMALEDDINE, L.E.FT ARCHITECTS

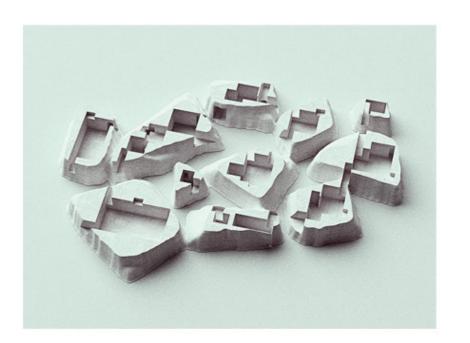


RECENTERING REMEMBERANCE ADV IV, ZIAD JAMALEDDINE, L.E.FT ARCHITECTS

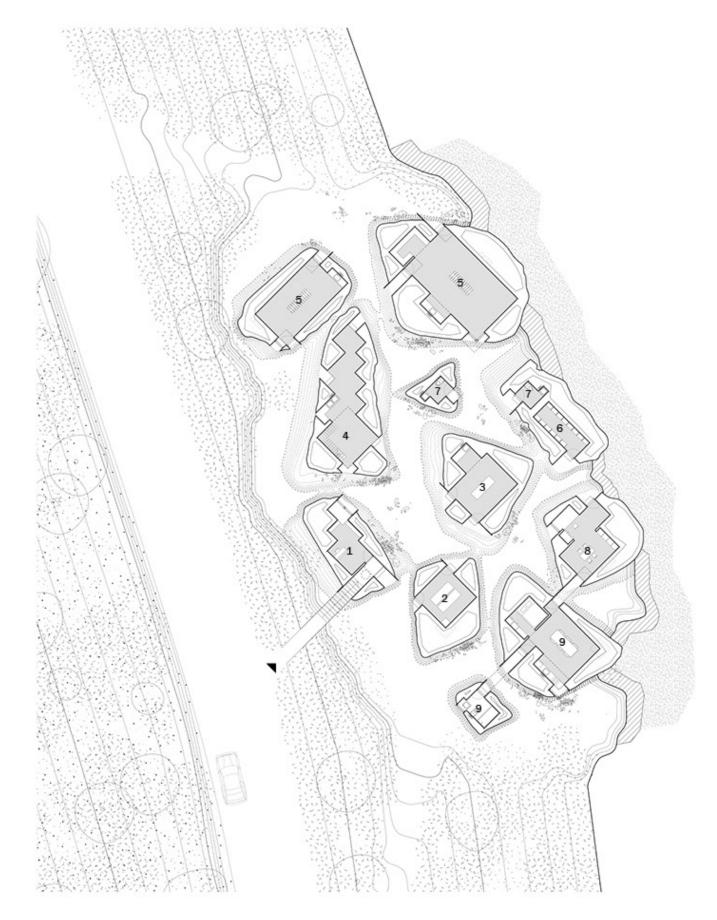


Structures are built in place of the remediation machinery to house gathering spaces, for both mourners and the inhabitants of islamberg. These structures break the burial grid, and allow for moments of respite, wayfinding and gathering. Islamberg can also use these spaces to host local religious classes, or even regional conferences that they previously could not accommodate for. Over the years, the cemetery is transformed into a lively park that is shared by both the visitors and the town.

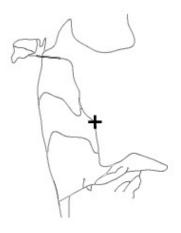
Other related programs are built in a similar way using soil remediated at the quarry, including a funeral ablution site and a prayer site for larger gatherings.

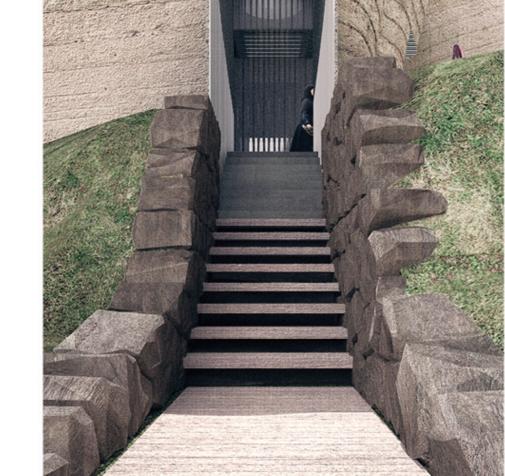






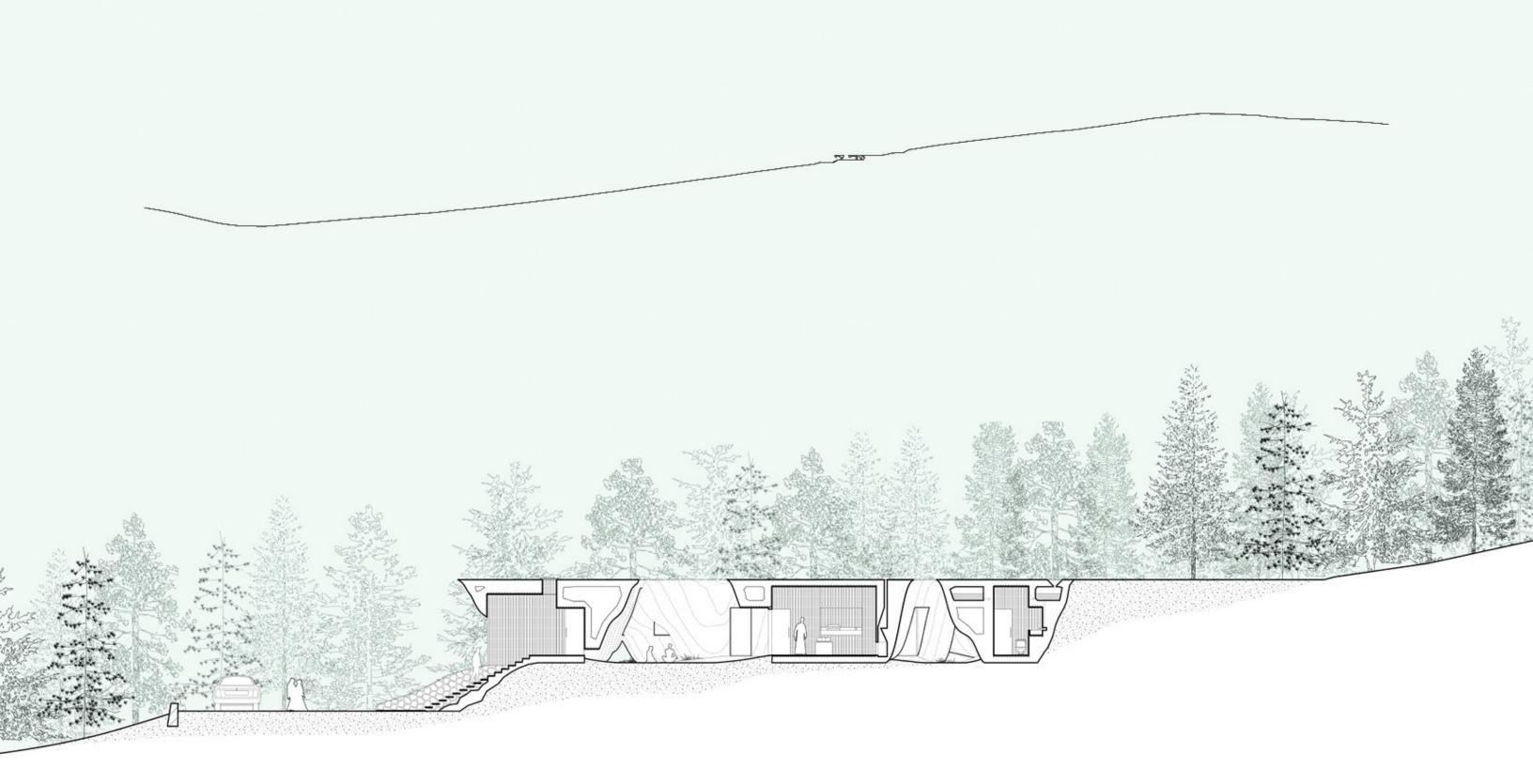






FUNERAL ABLUTION SITE

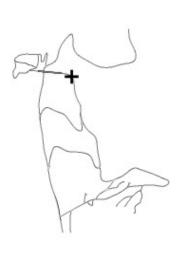
- 1. reception
- 2. laying out
- 3. bathing and shrouding
- 4. gathering
- 5. prayer room
- 6. utility room
- 7. restroom
- 8. imam's office
- 9. imam's living area



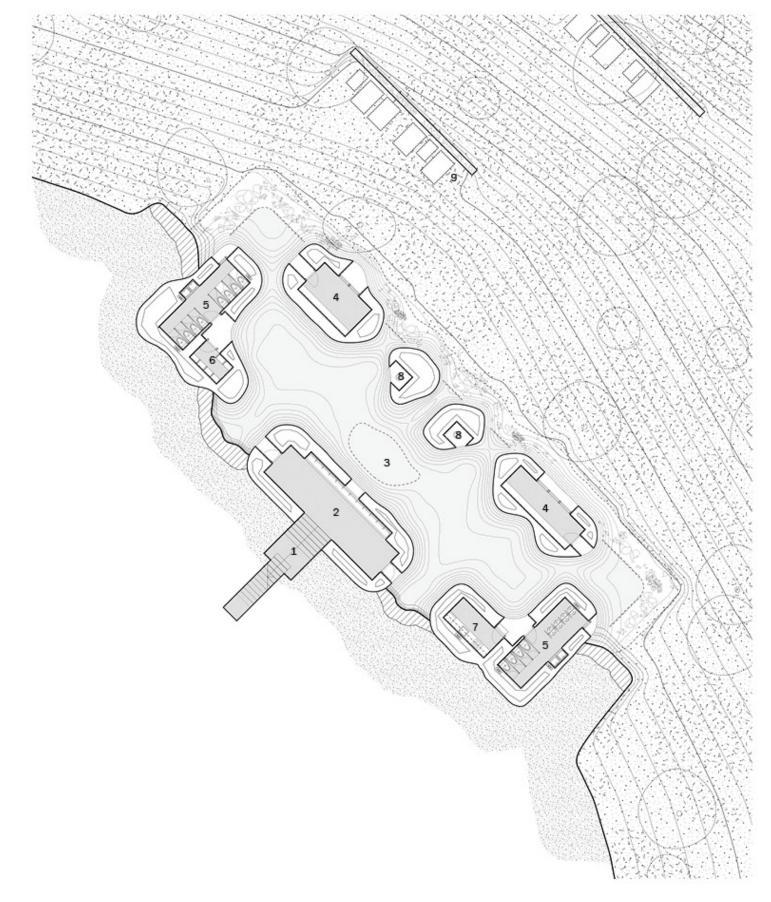


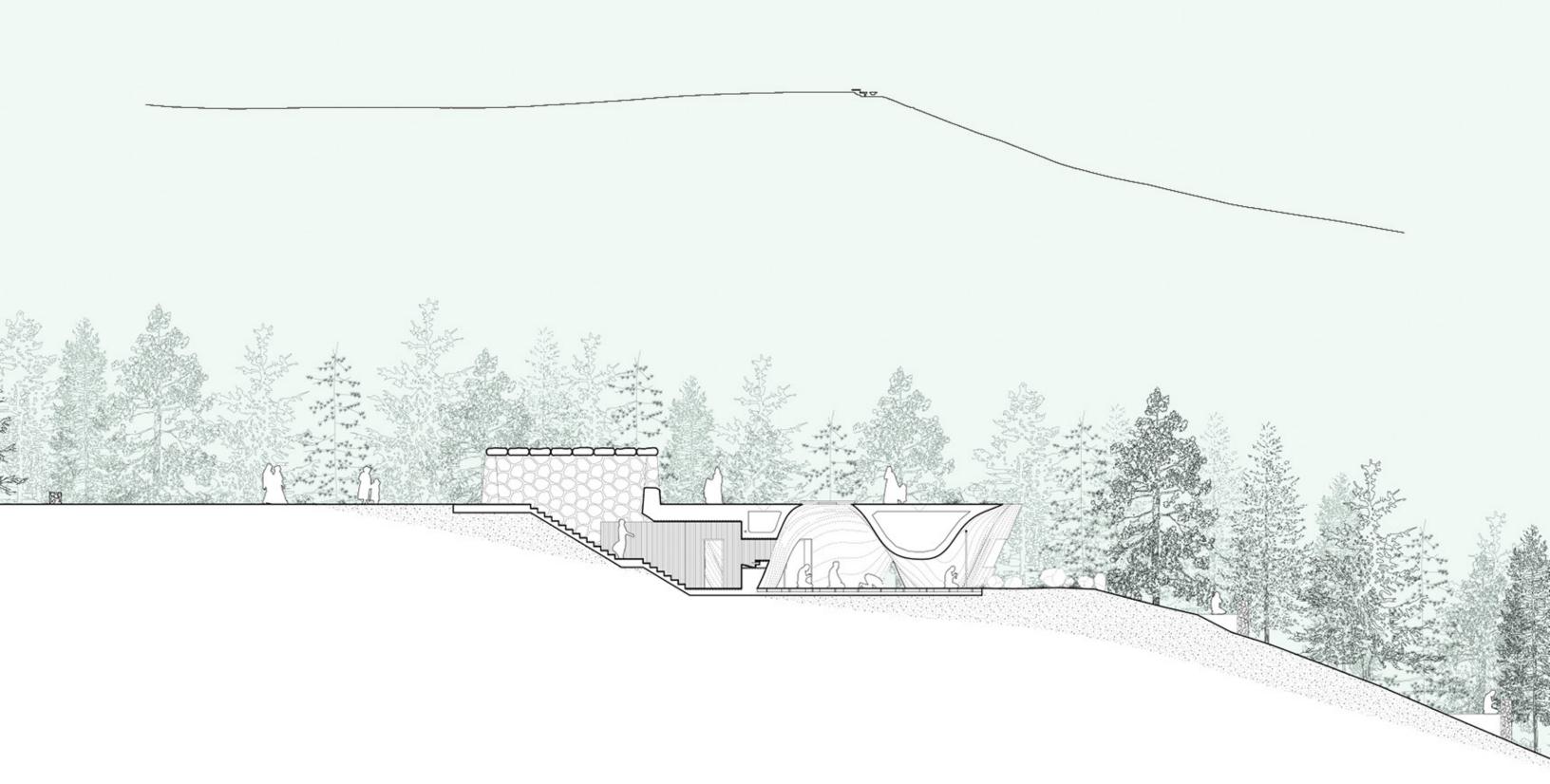
PRAYER SITE

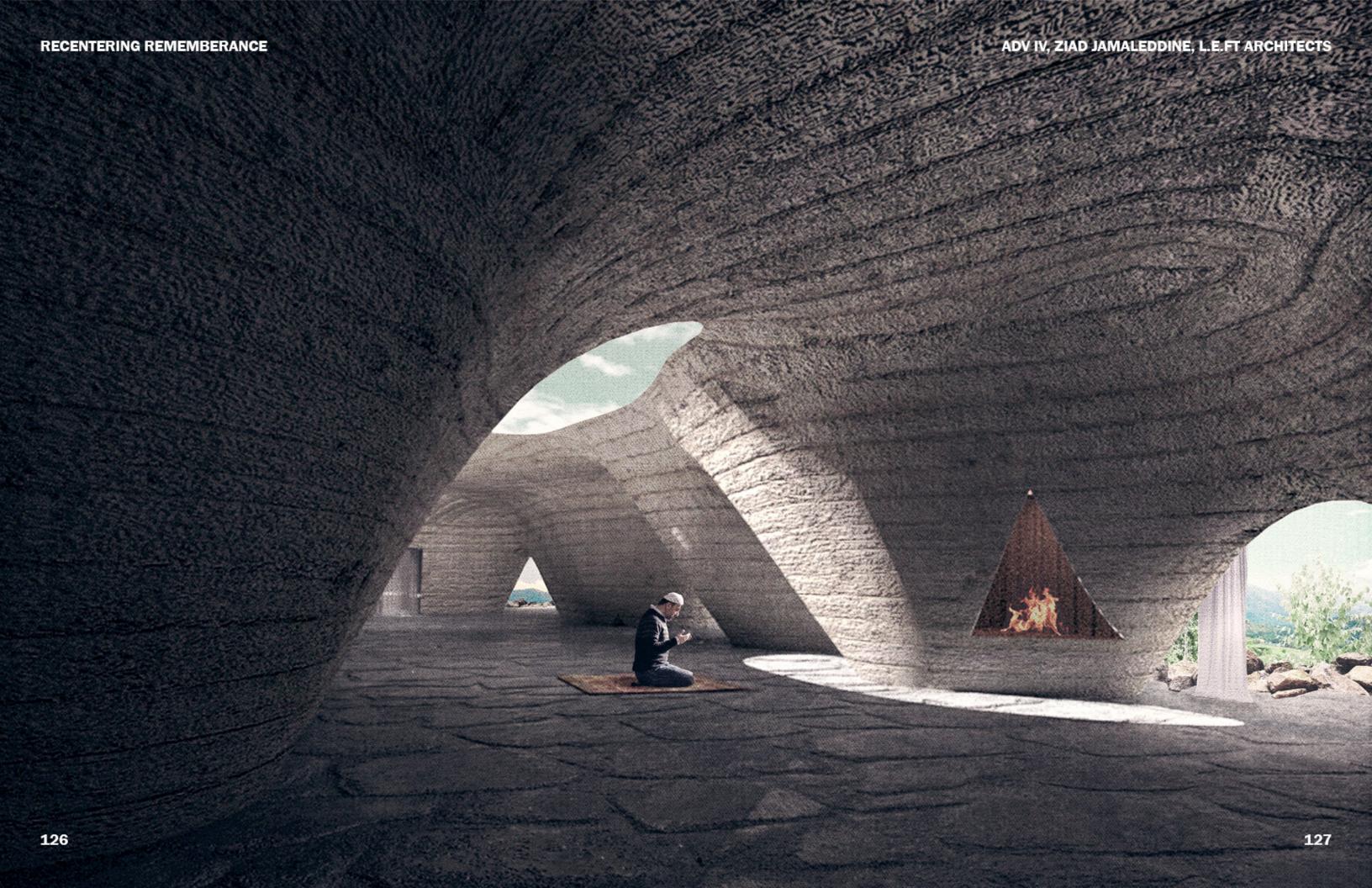
- 1. entrance
- 2. ablution
- 3. main prayer area
- 4. small chamber
- 5. restroom
- 6. utility room
- 7. kitchen
- 8. fire place
- 9. outdoor prayer area







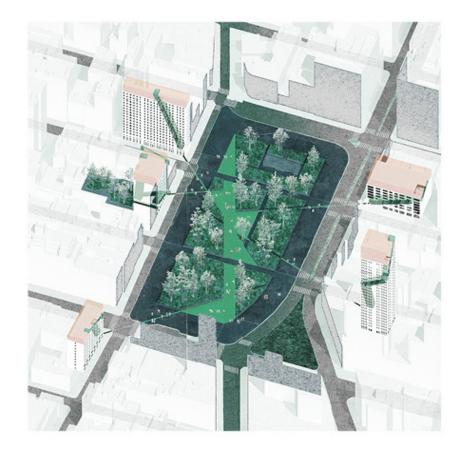




CUT THE GRID

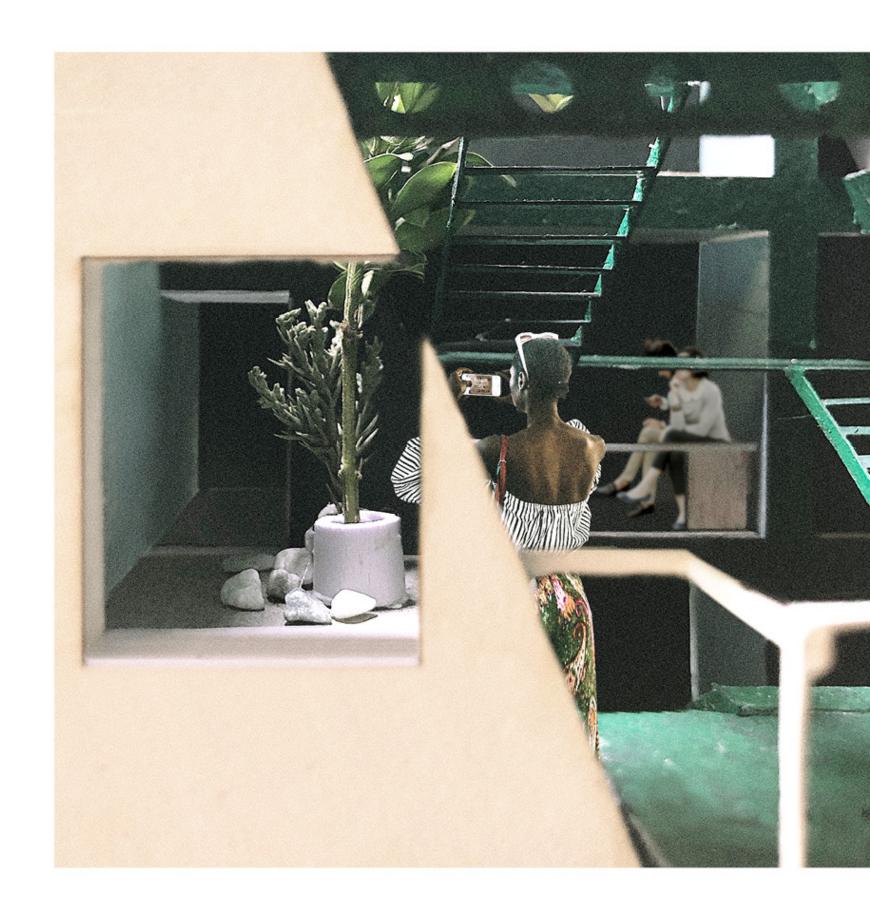
CORE I, AMINA BLACKSHER, ATELIER AMINA

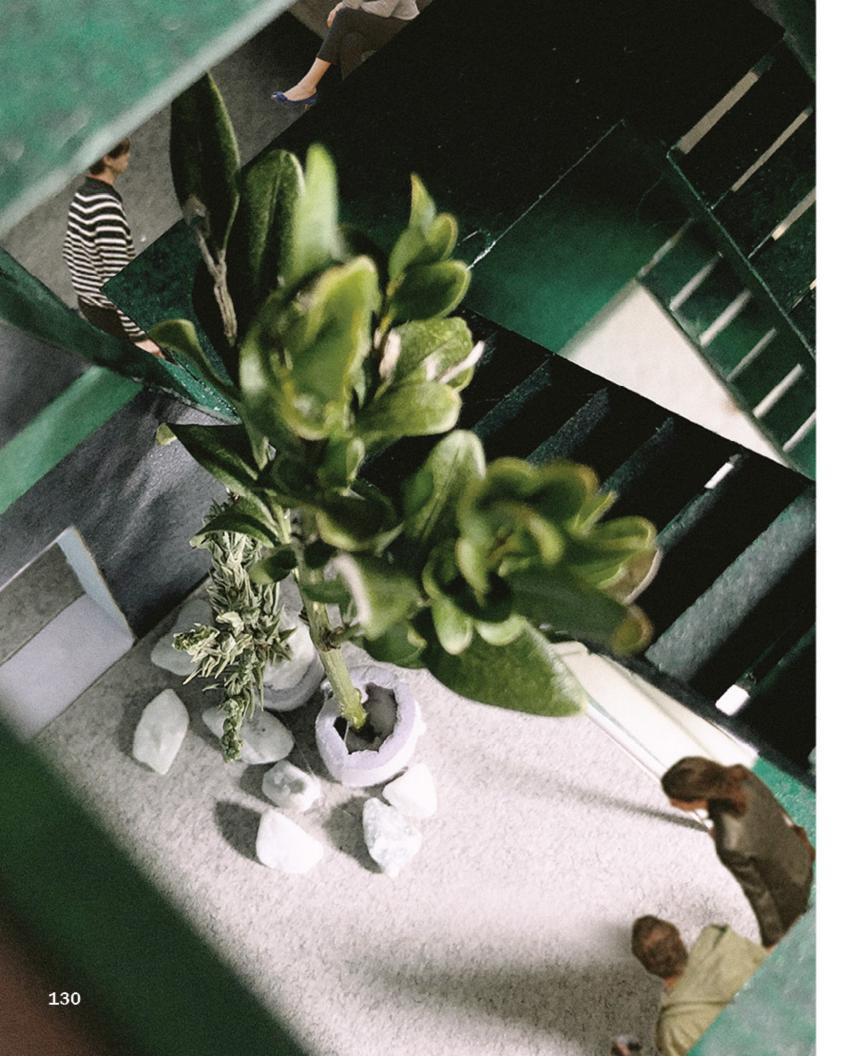
Public Space Design Fall 2019 Individual Work



CUT THE GRID

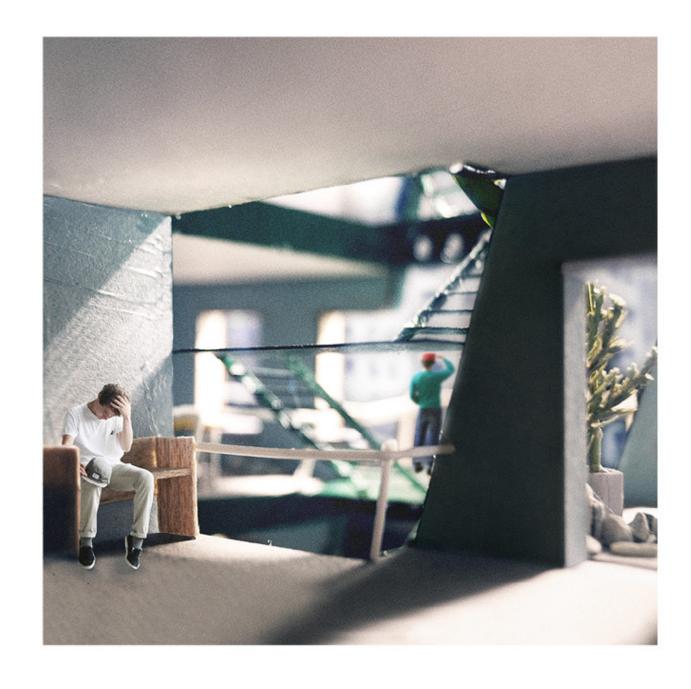
Similar to how Broadway cut through public squares within the Manhattan grid, this project carves out secret public space within the existing 'grid' of residential units vertically. Located at Union Square West, the newly inverted open spaces serve as a mediator between public and private, intimacy and openness. Public stairs are built with materials reclaimed from the cut to ensure the assessiblity.







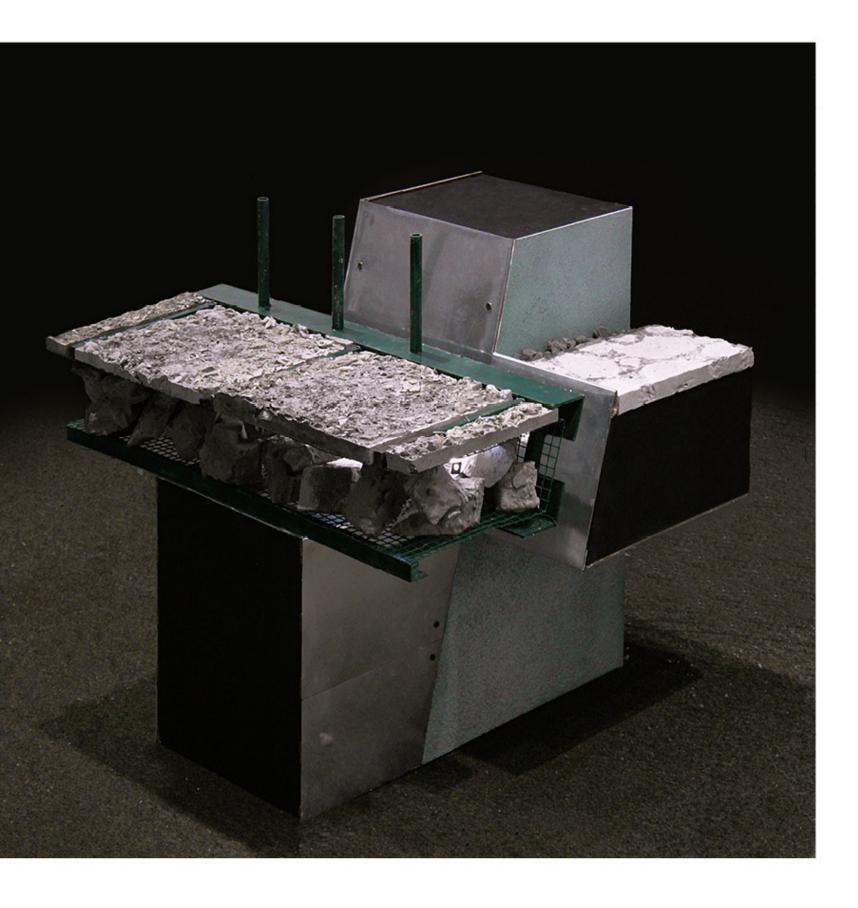
CUT THE GRID





CUT THE GRID

CORE I, AMINA BLACKSHER, ATELIER AMINA









FOLDING WALL
TRANSITIONAL GEOMETRY, JOSHUA JORDAN

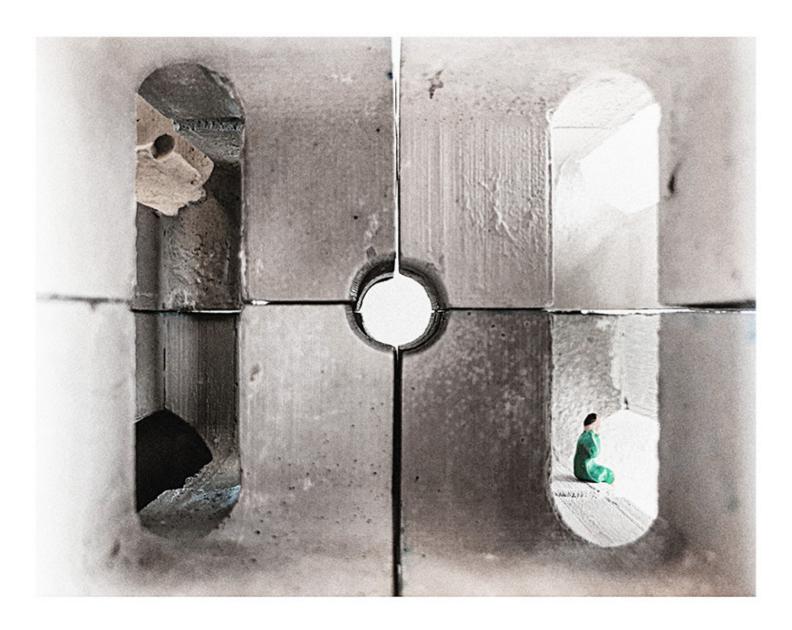


FOLDING WALL

Fall 2019 Individual Work

FOLDING WALL
TRANSITIONAL GEOMETRY, JOSHUA JORDAN









RECIPROCAL JOINERY

Spring2020 Individual Work

DUCK BATH

Spring 2022

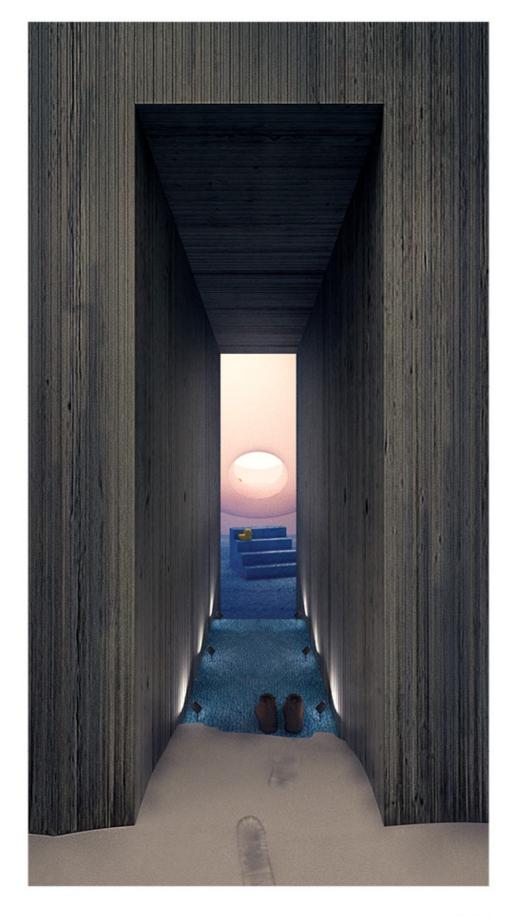
Teammate: Osvaldo Delbrey, Yerin Won, Hao Zheng



DUCK BATH

This project plays with materiality in the design of a bath house. A journey towards the bath is thought through - from walking in the falling snow, to climbing down the ladders, to walking through a almost religious hallway, and to bathing in a silicone ball with skylight.

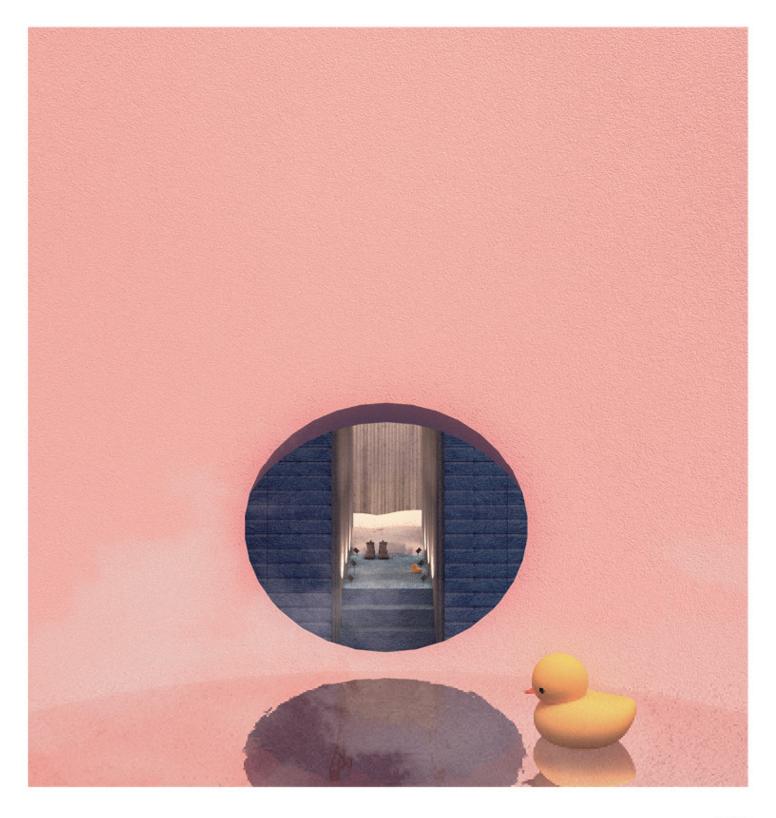




TECHNIQUES OF THE ULTRAREAL, PHILLIP CRUPI







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