

Architecture

of

Life

Zheng Yin

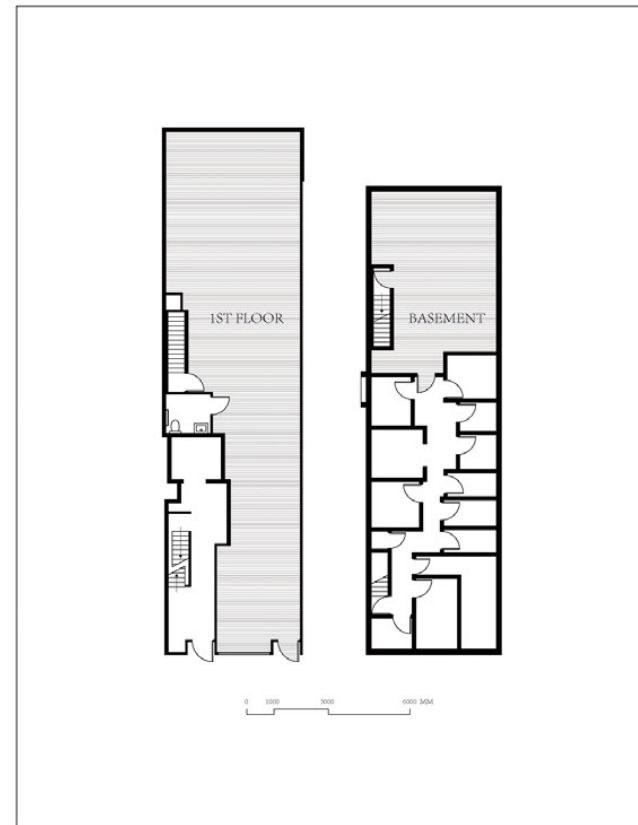
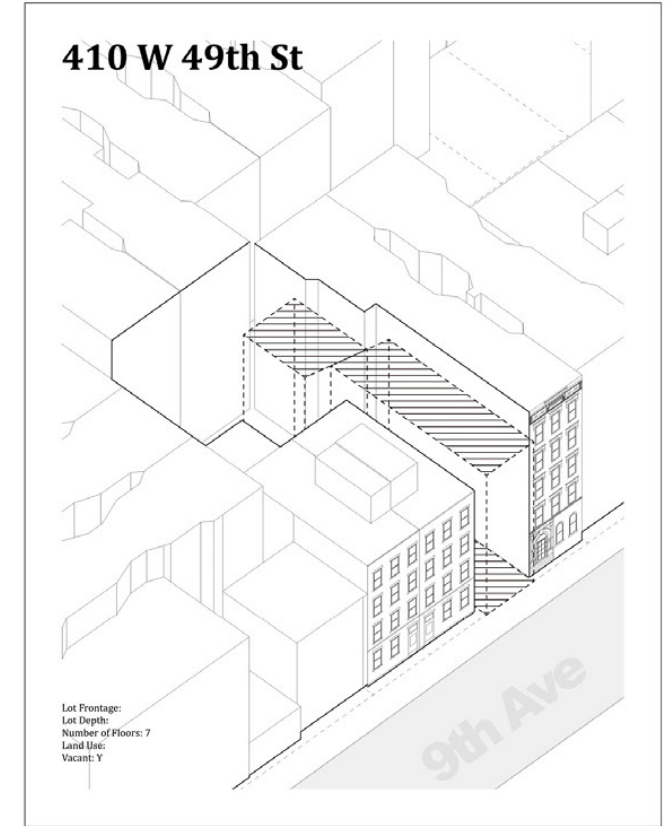
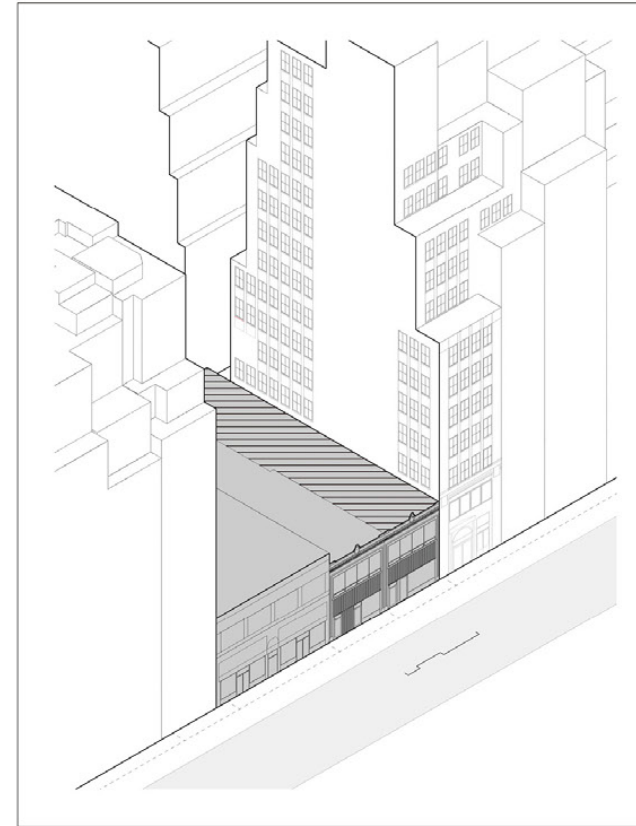
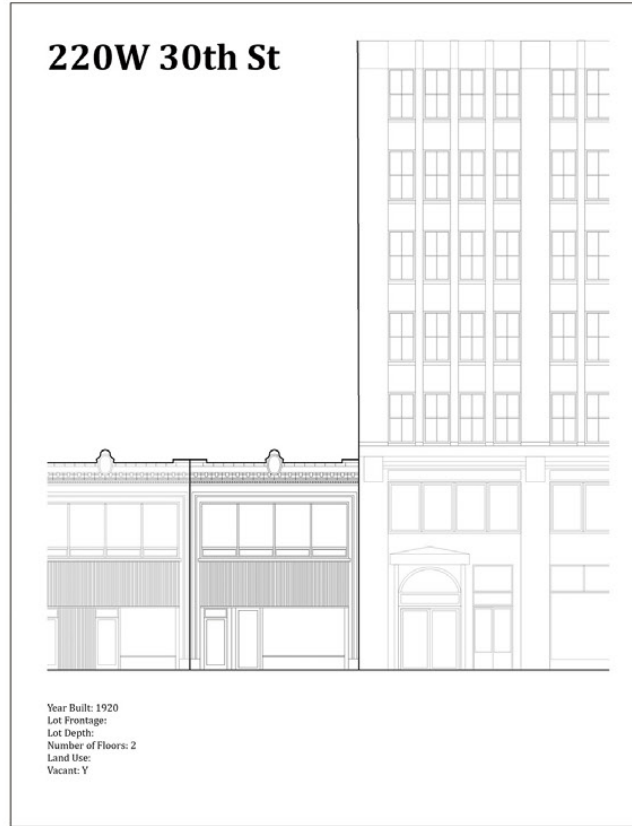
Columbia GSAPP

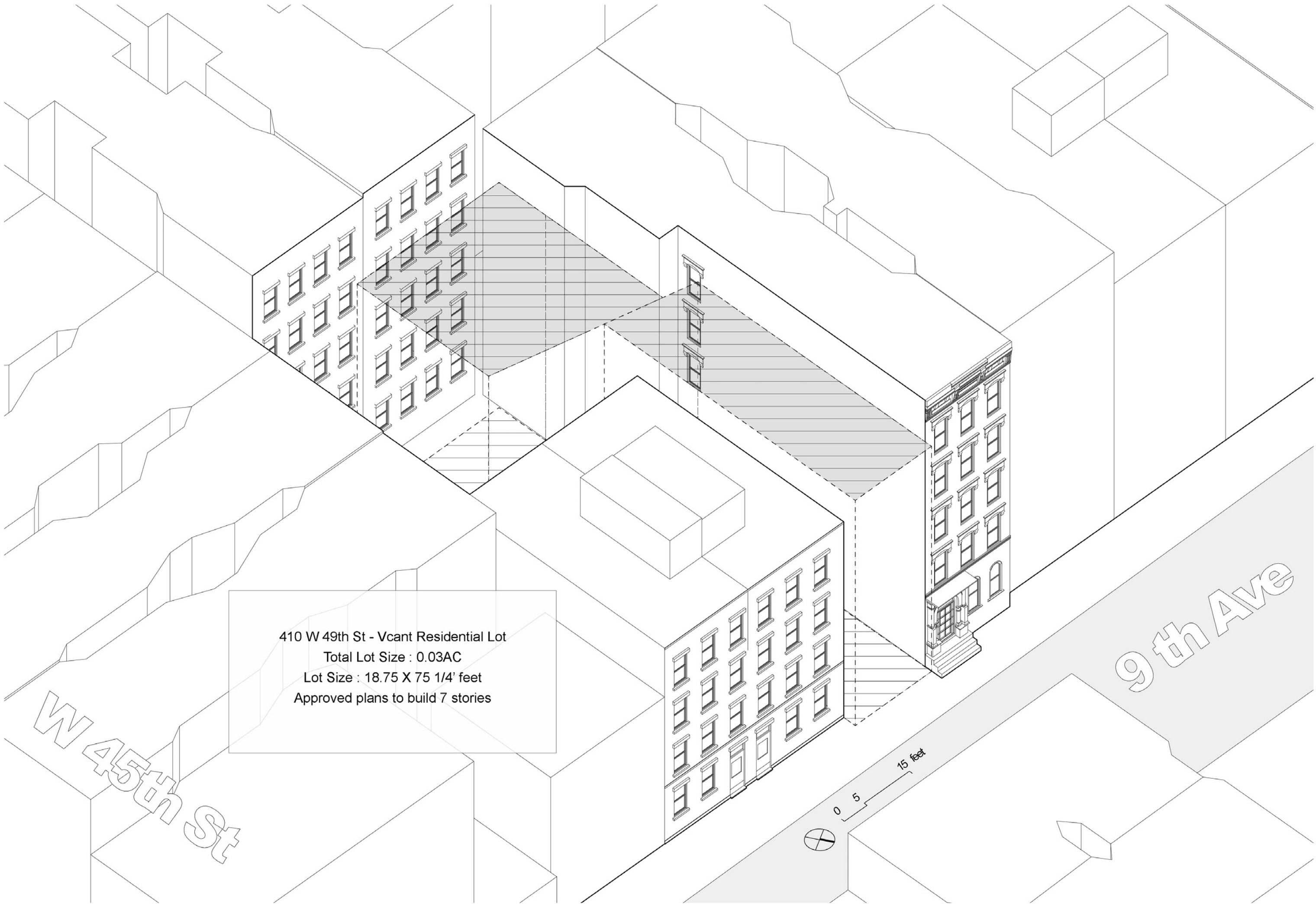
2021-2000

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1. Studio Spring 2022
Small Footprint
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3. Man, Machine & Land
Proposal of Cattleless Land
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5. Studio Summer 2021
Counter Collapse

“Small footprints at the street level are a secret to the success of a block.”

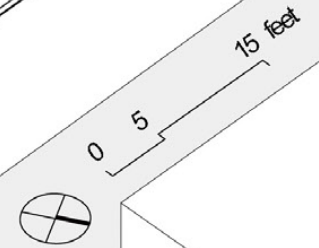


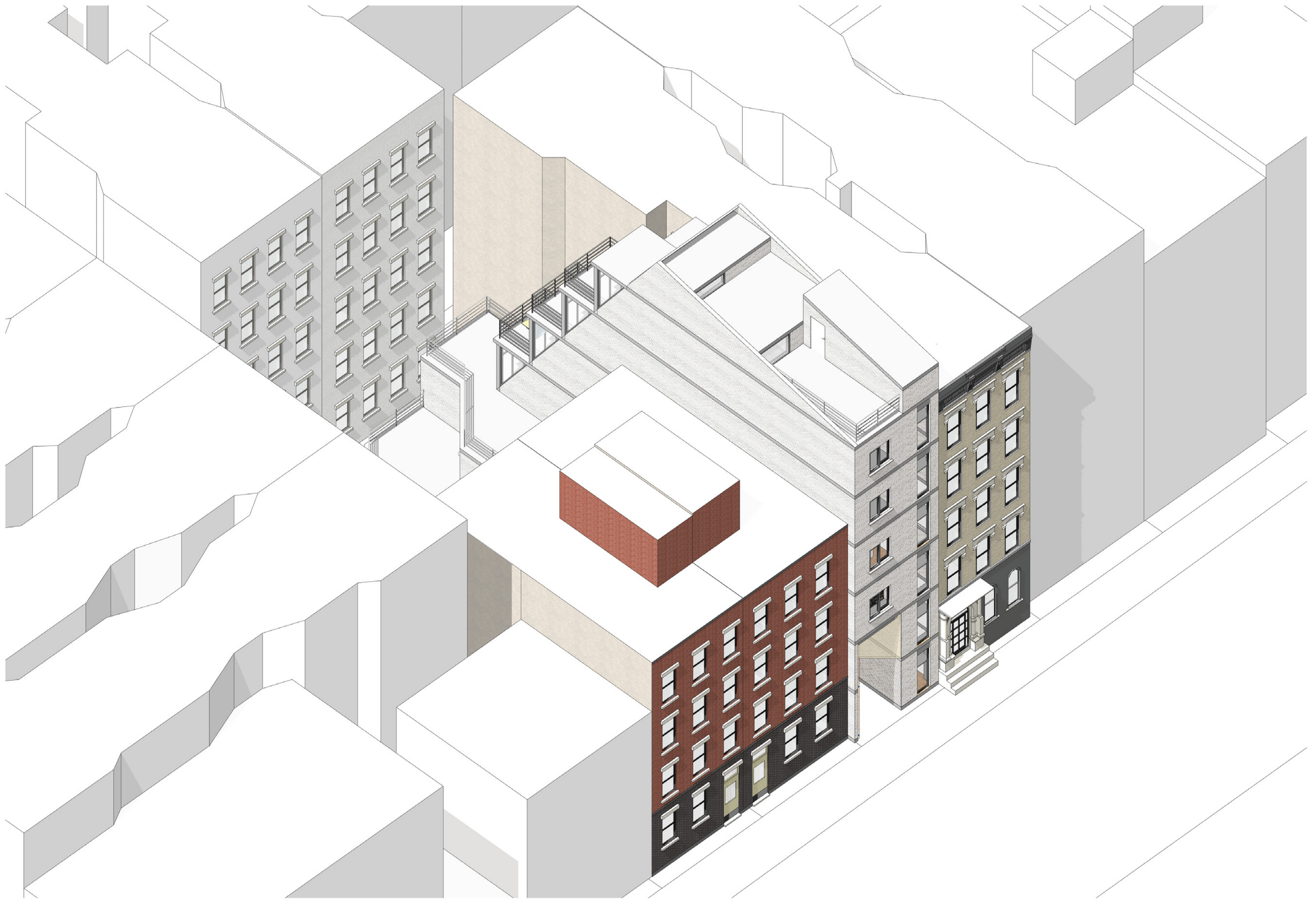


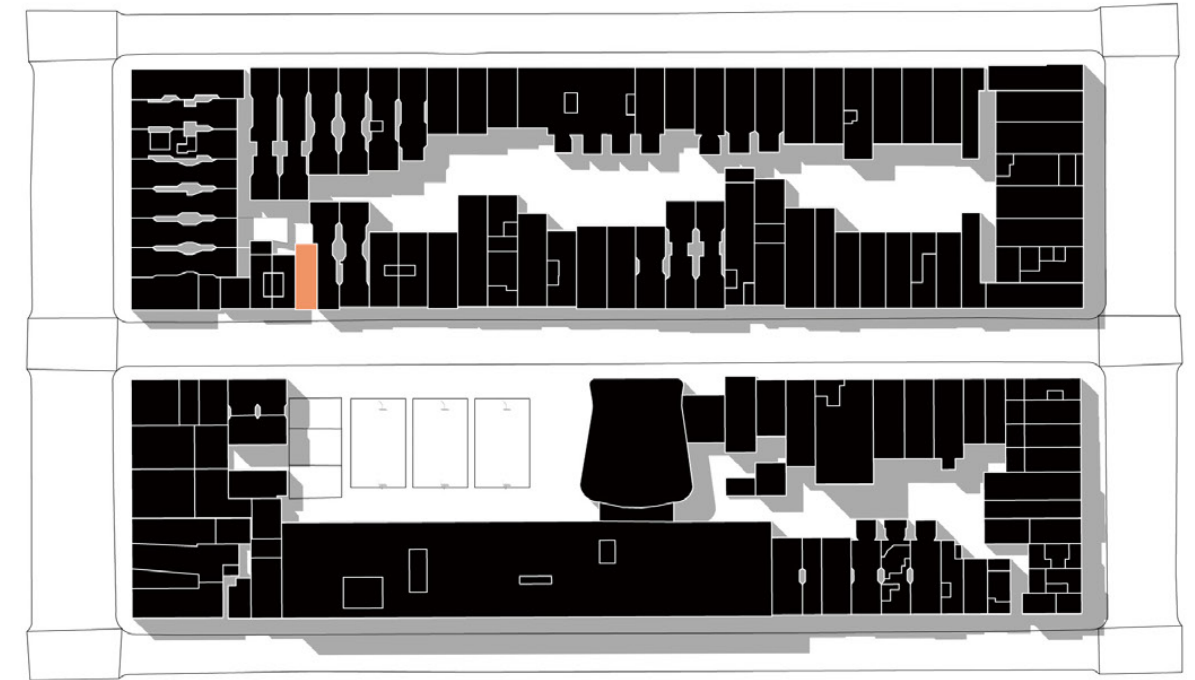
410 W 49th St - Vacant Residential Lot
Total Lot Size : 0.03AC
Lot Size : 18.75 X 75 1/4' feet
Approved plans to build 7 stories

W 45th St

9th Ave

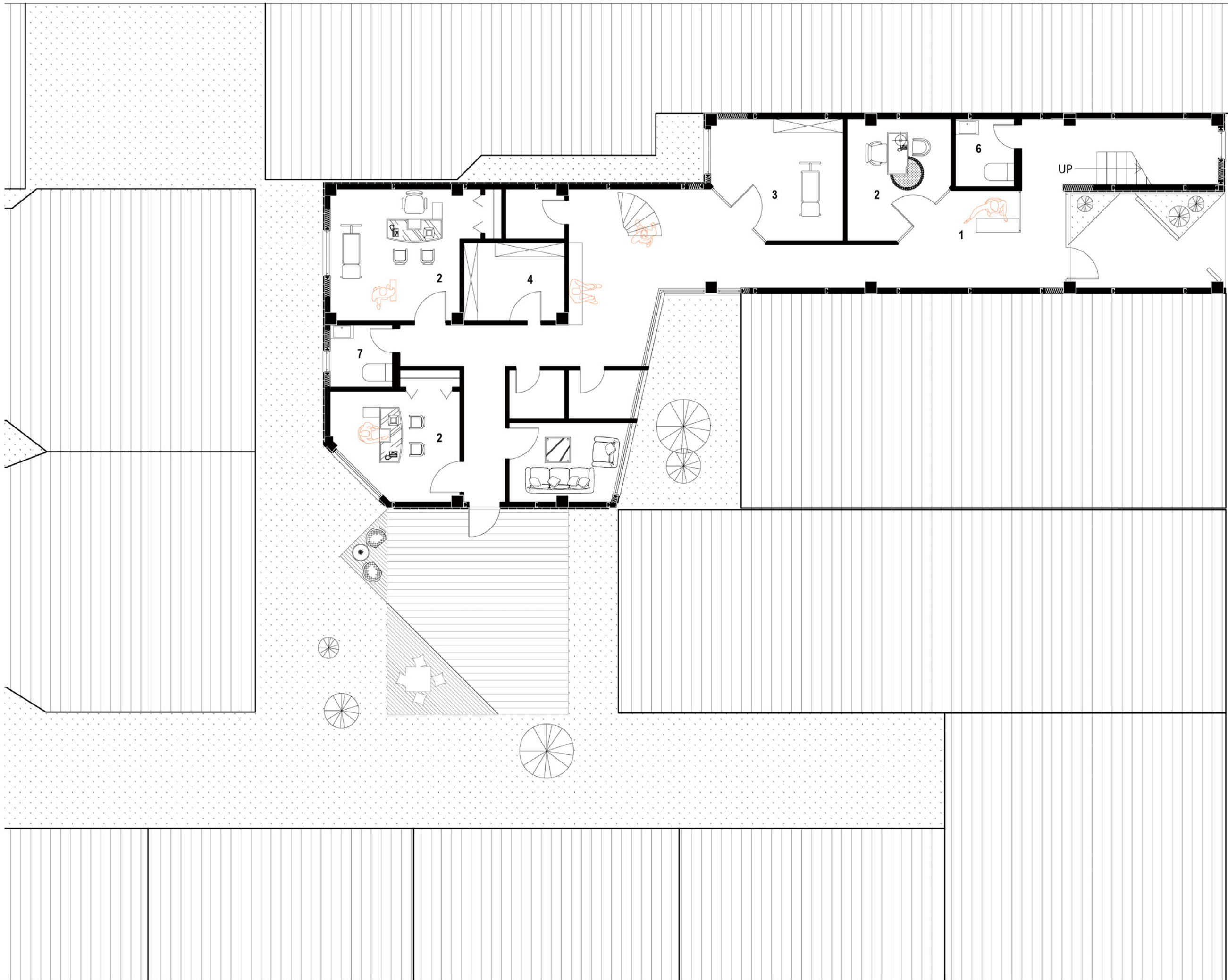




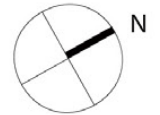


Vacant Outside & Inside

In new York, buildings tend to create a continuous facade and a full rectangular border of a block on the plan. We can make use of not only vacant storefronts facing the street but also vacant spaces inside the block.



1ST FLOOR



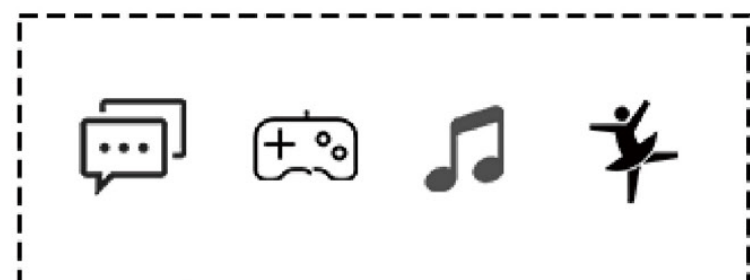
0 5 10 feet

- 1 FRONT DESK
- 2 DOCTOR'S OFFICE
- 3 EXAM ROOM
- 4 STORAGE
- 5 GROUP CONSULT
- 6 PUBLIC BATHROOM
- 7 FACULTY BATHROOM

1ST FLOOR
CLINIC



2ND FLOOR
COMMUNITY SPACE



3RD TO 6 TH FLOOR
HOUSING FOR NURSES



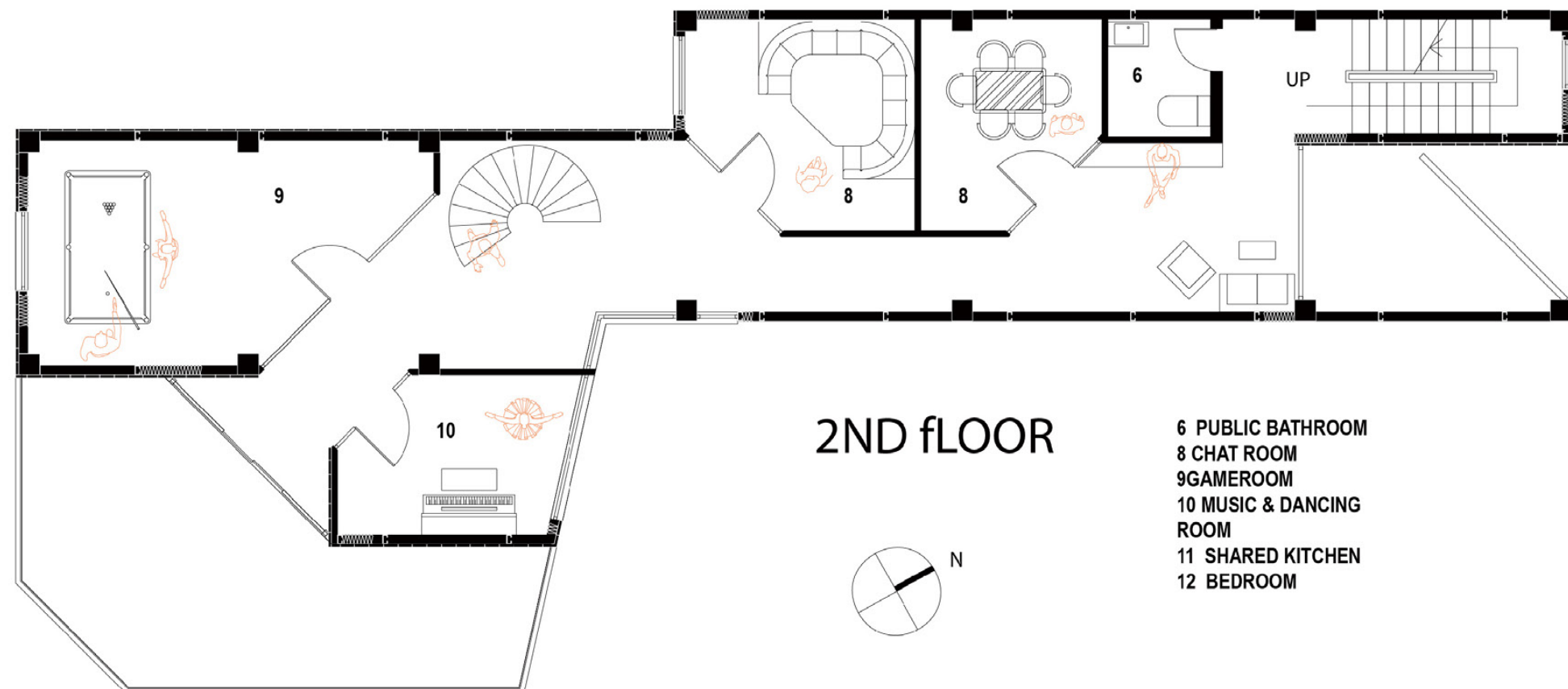
TEENAGERS



COMMUNITY
VOLUNTEERS

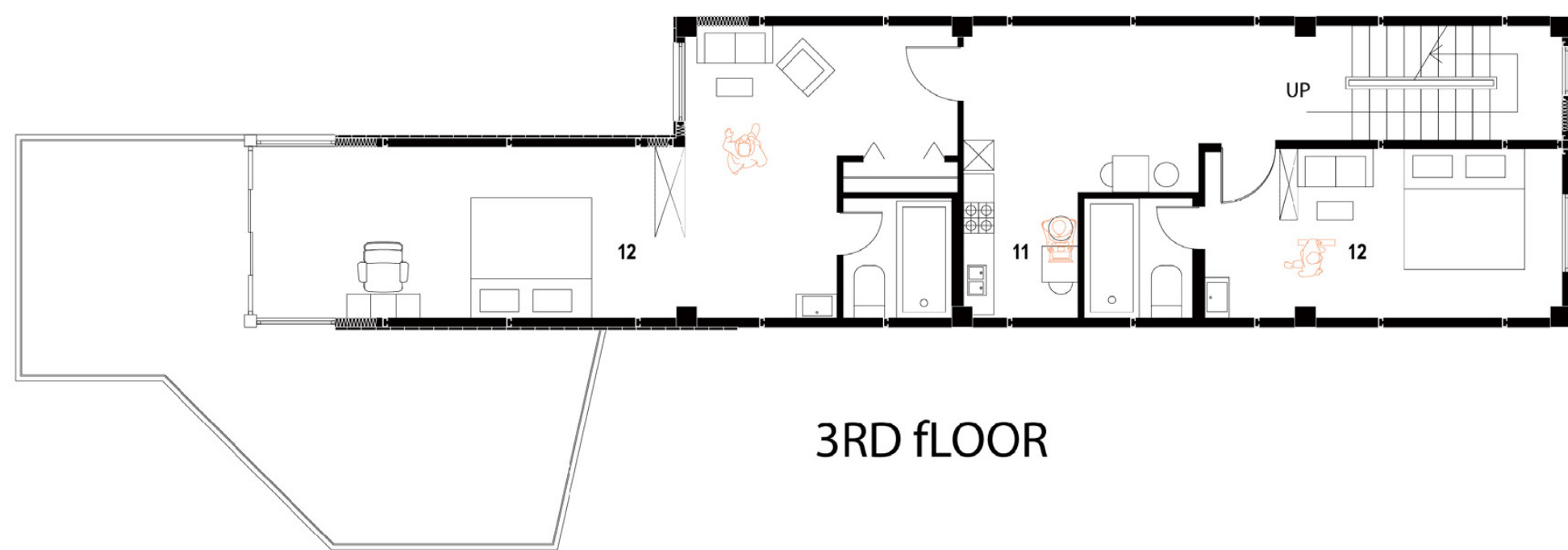


DOCTORS
& NURSES

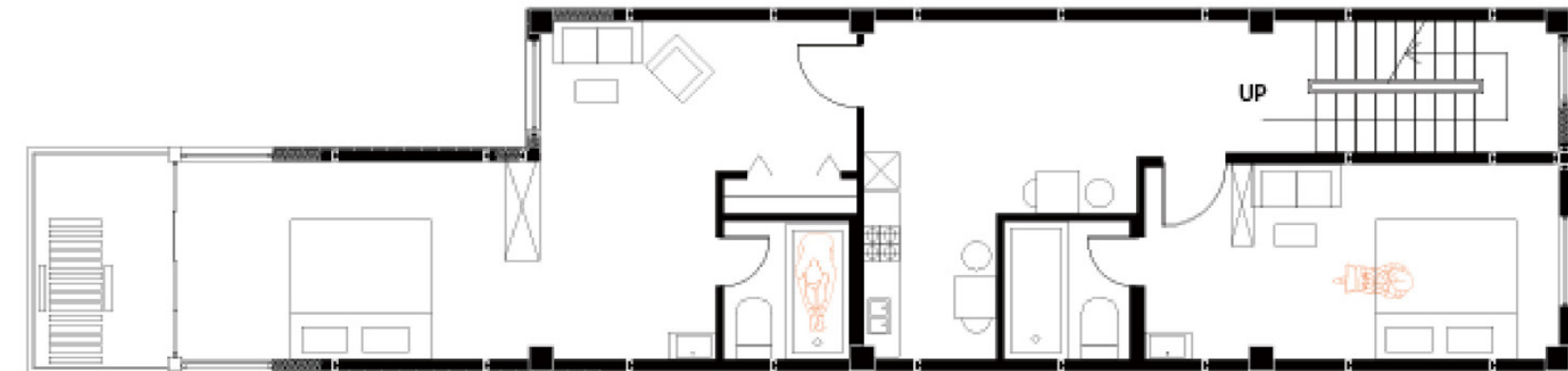


2ND FLOOR

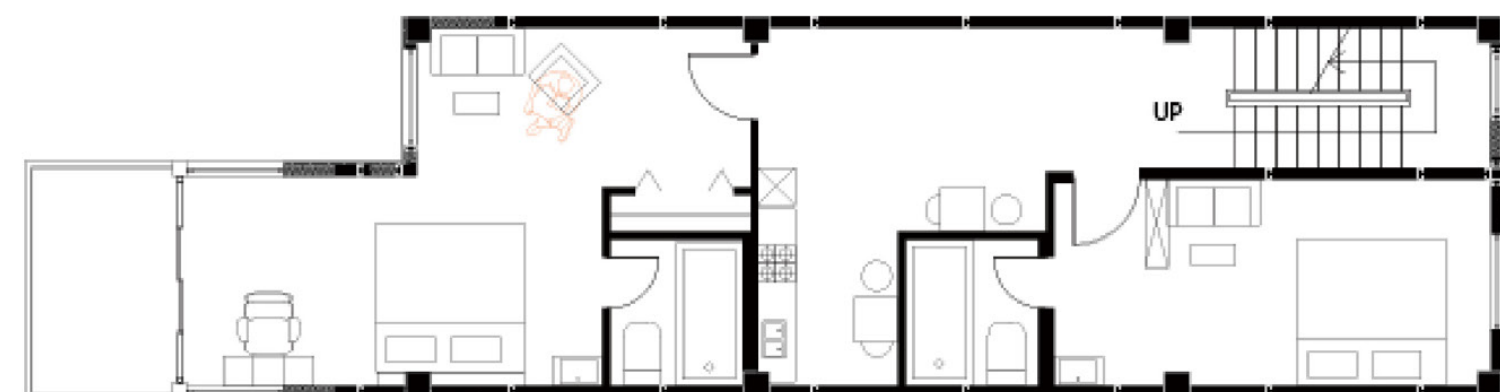
- 6 PUBLIC BATHROOM
- 8 CHAT ROOM
- 9 GAMEROOM
- 10 MUSIC & DANCING ROOM
- 11 SHARED KITCHEN
- 12 BEDROOM



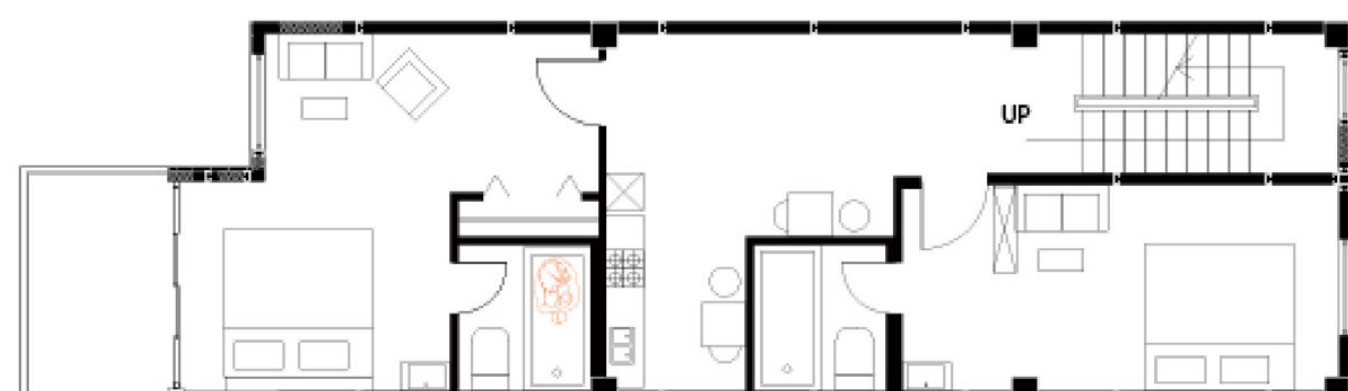
3RD FLOOR



4TH FLOOR



5TH FLOOR



6TH FLOOR



FRONT DESK and CORRIDOR



EXAM ROOM on 1st floor



COMMUNITY SPACE on 2nd floor



STAINED GLASS looking from 2nd floor



PUBLIC KITCHEN on 3rd to 6th floor

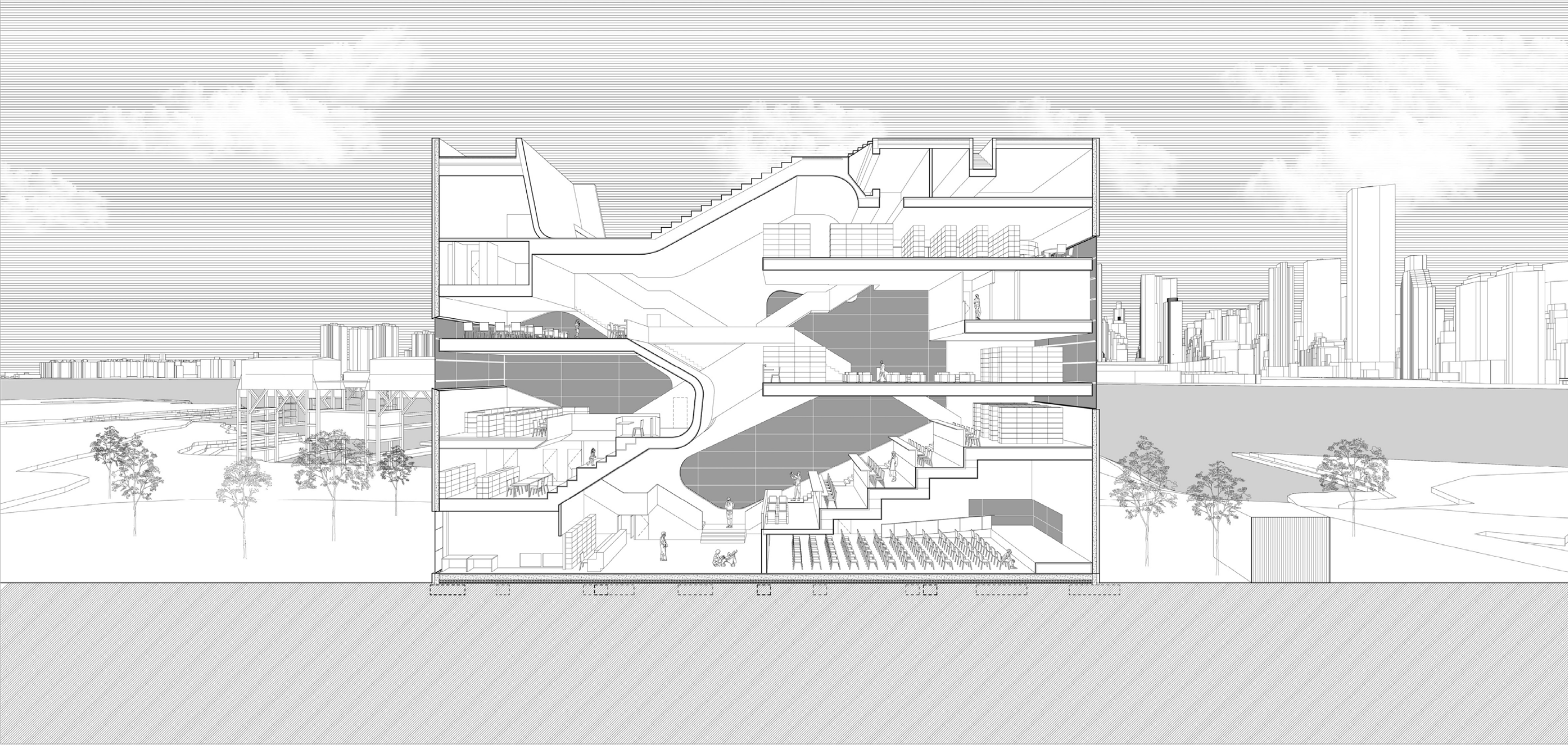


SUITS on southside with balconies

Course Information:
Seminar of Section
ARCHA4975_001_2022_1
Marc Tsurumaki



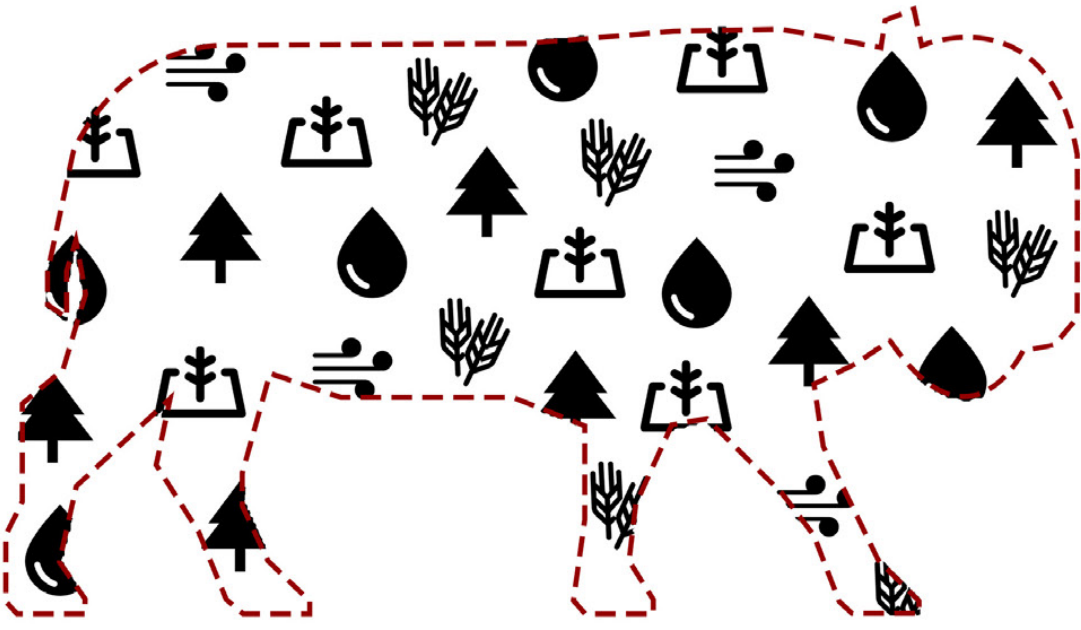
Project Information:
Hunters Point Library / Steven Holl Architects
Perspective Drawings

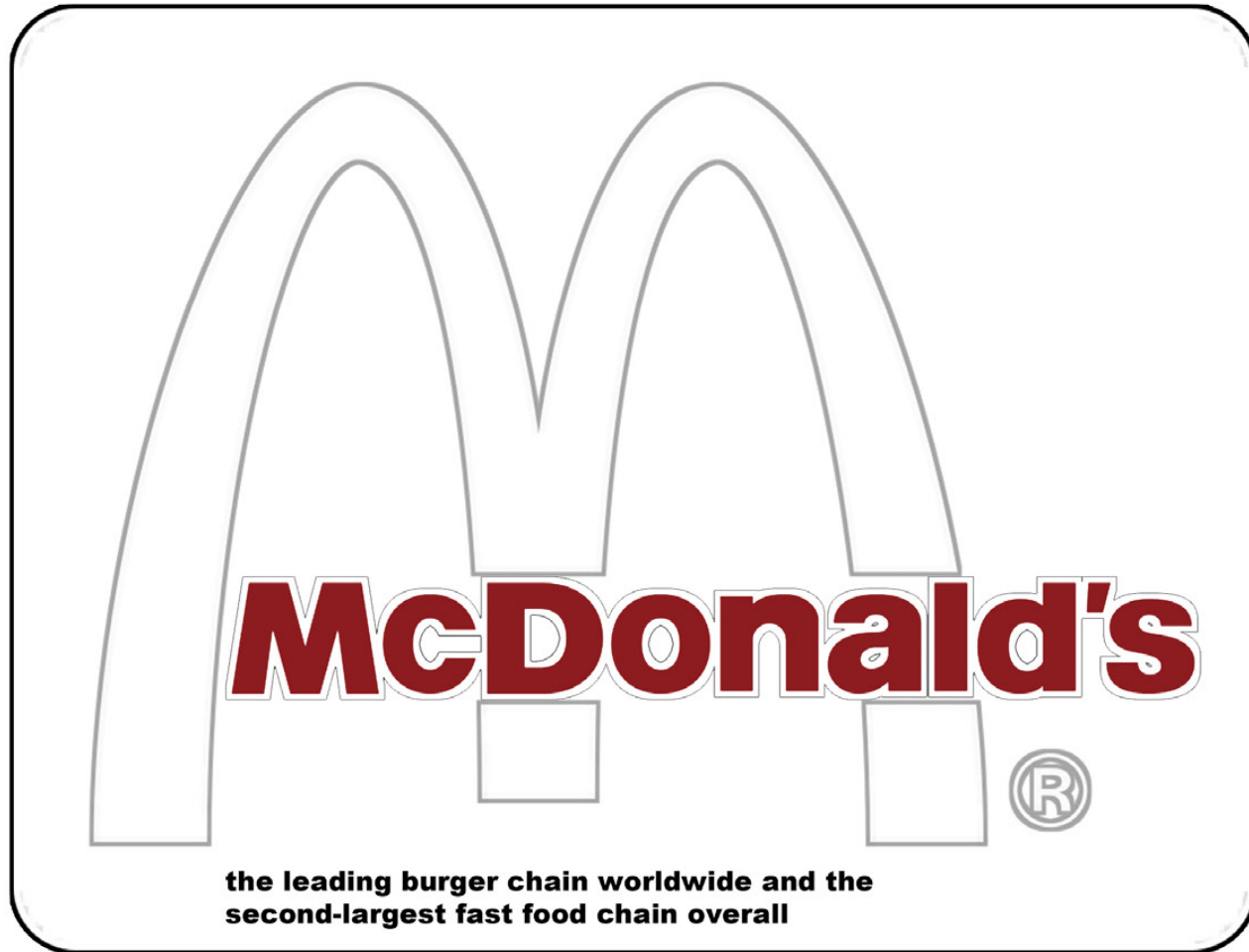


Course Information:
Man, Machine & Land
ARCHA4776_001_2021_3
Sean Gallagher

Cattleless Land

Release the forest, lands, clean water and fresh air occupied by meat industry.





75 burgers sold every second
x60x60x24x365

≈ **2.37 billion** burgers per year



≈ 887 million pounds meat

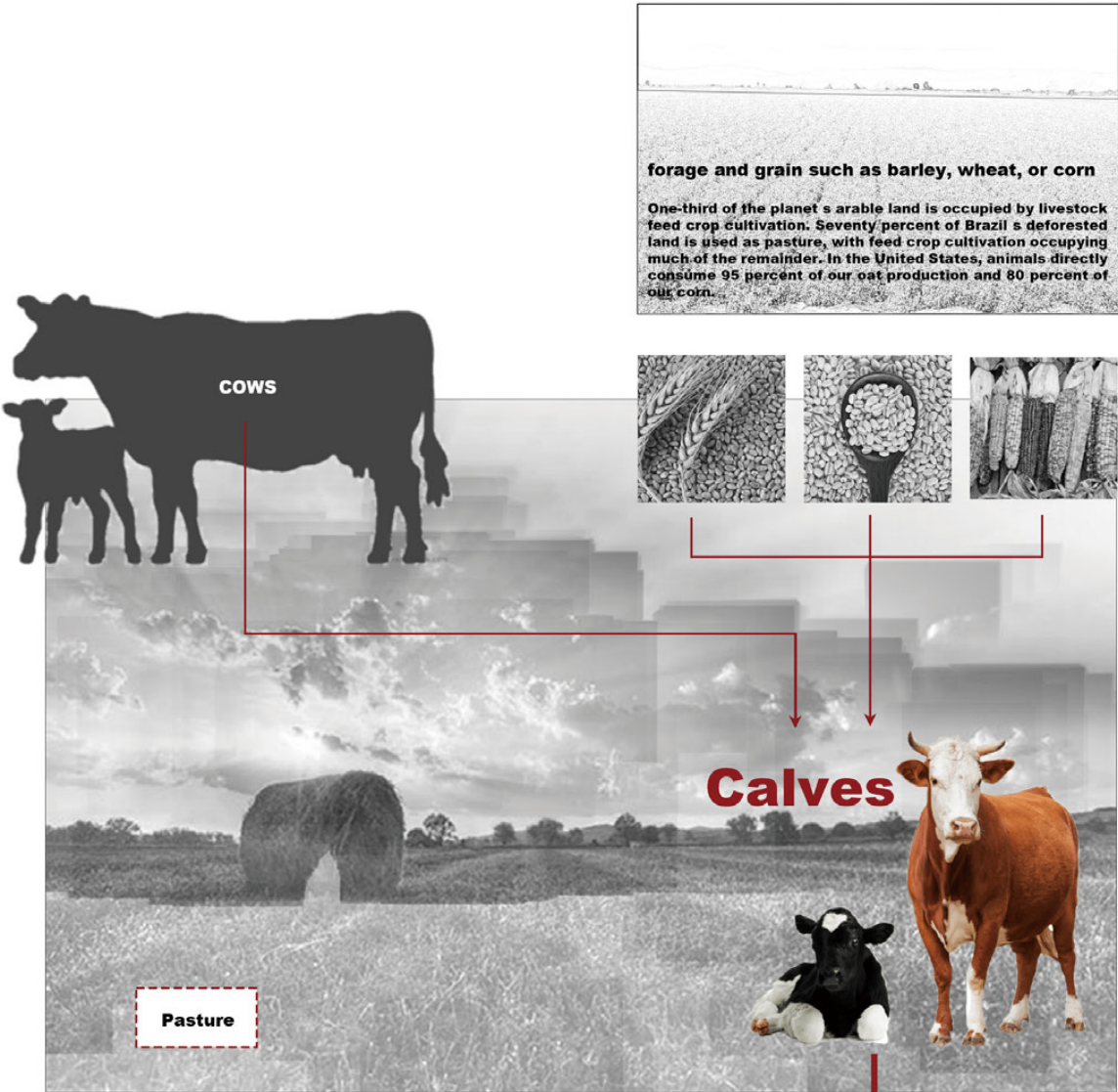
≈ 2.96 million cattles

≈ **4.43 million acre** of land

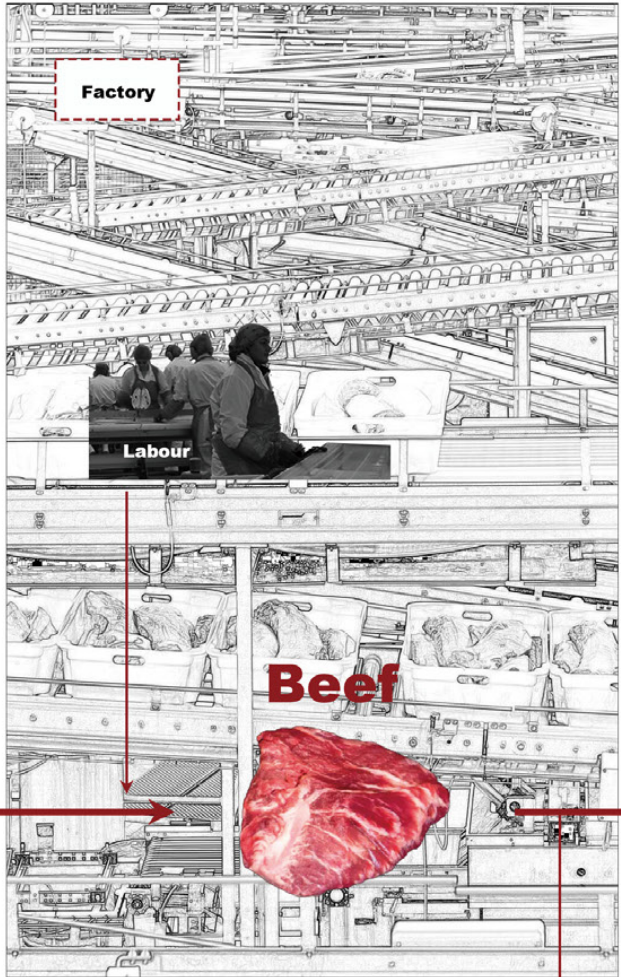
≈ 22.87 New York City



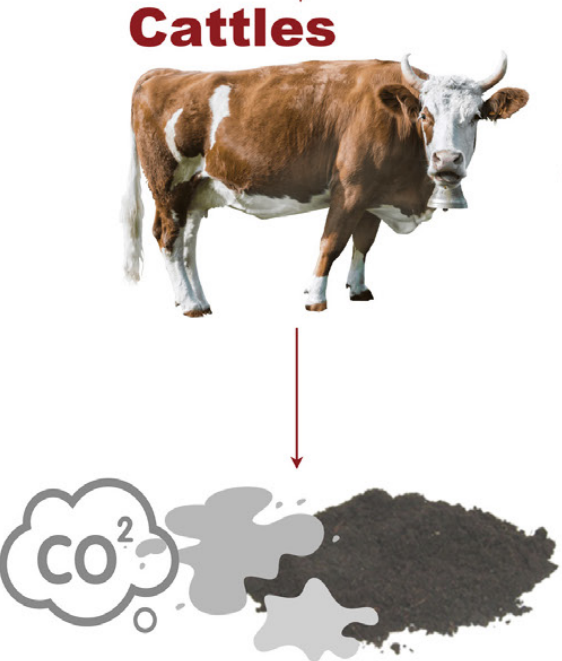
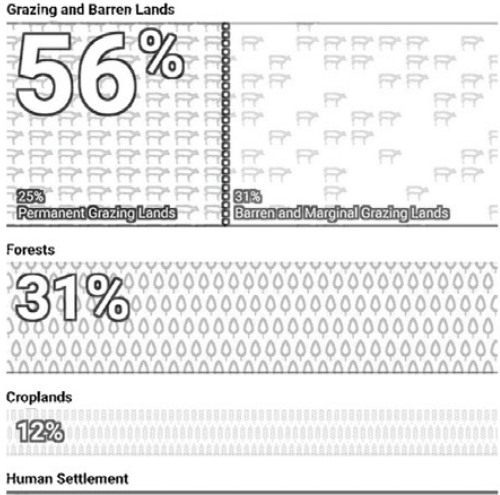
Processing chain of meat industry



There are 835 federally inspected livestock slaughter plants and 370 poultry slaughter plants in the U.S.



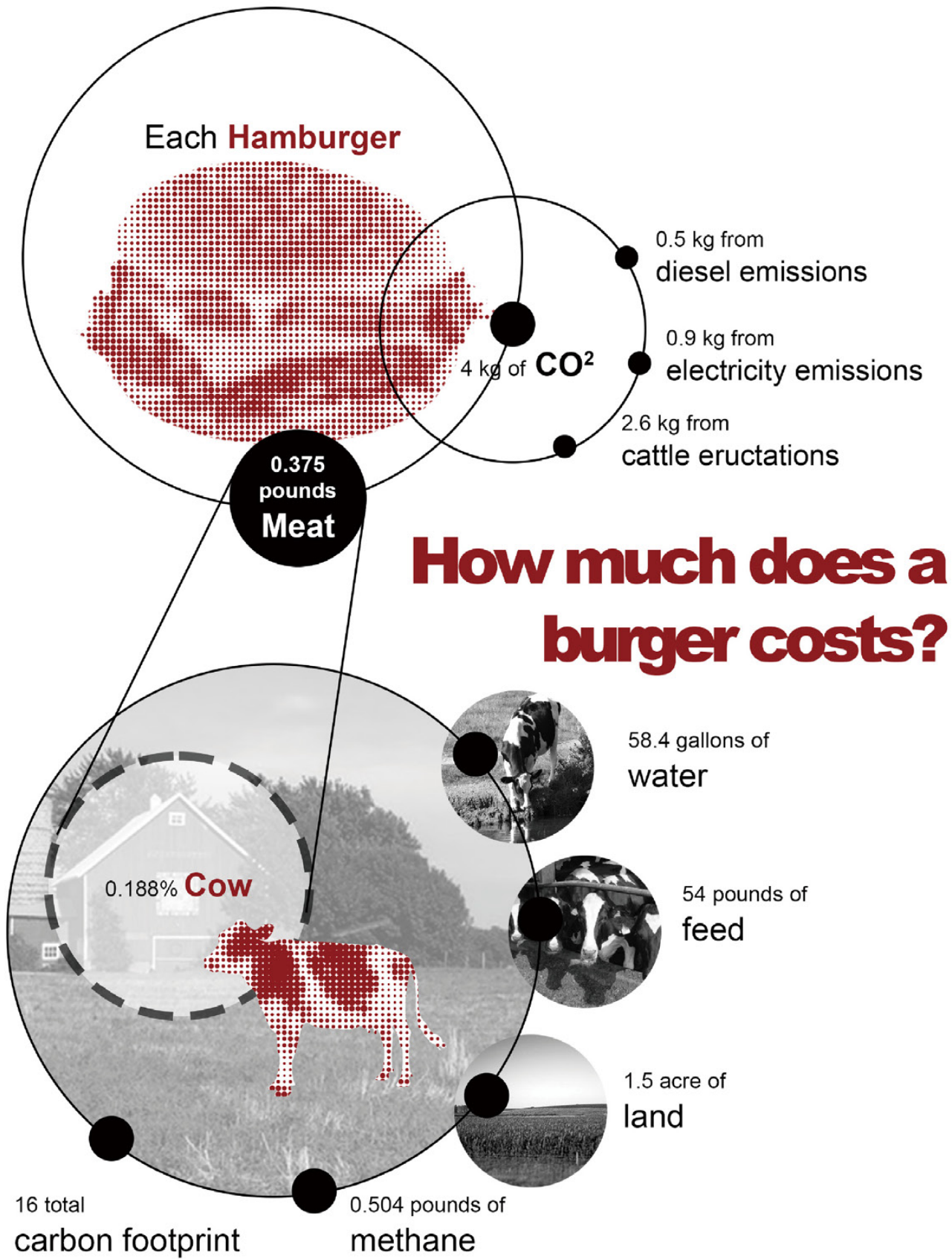
Twenty-six percent of the Planet's ice-free land is used for livestock grazing.



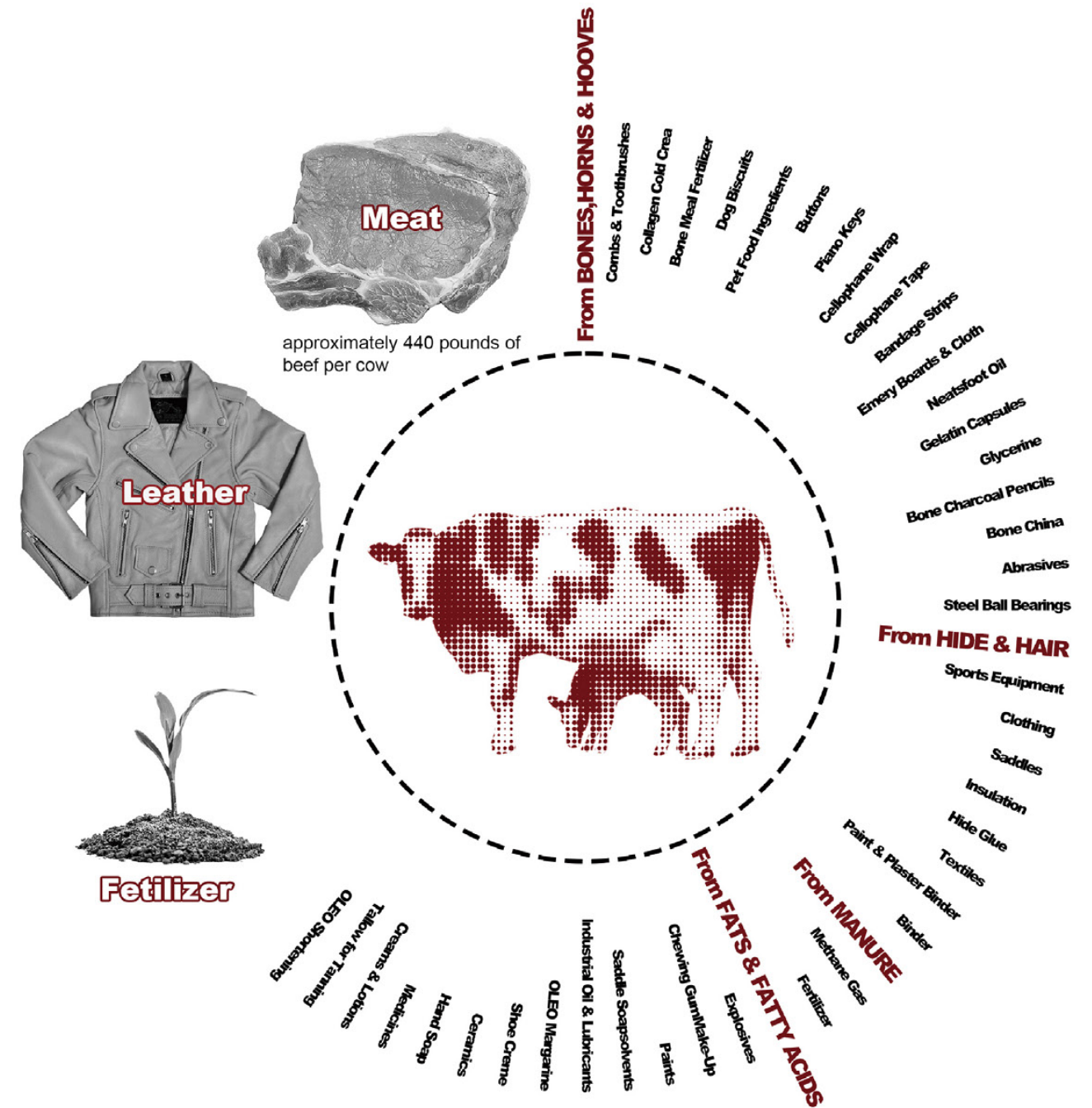
Metabolism include urine, manure and greenhouse gases

The amount of animal waste often exceeds what the land can take up, leaving the rest to escape into the air or runoff into surface waters. This improper collection and disposal of untreated animal waste can harm soil health local water supplies and human health.

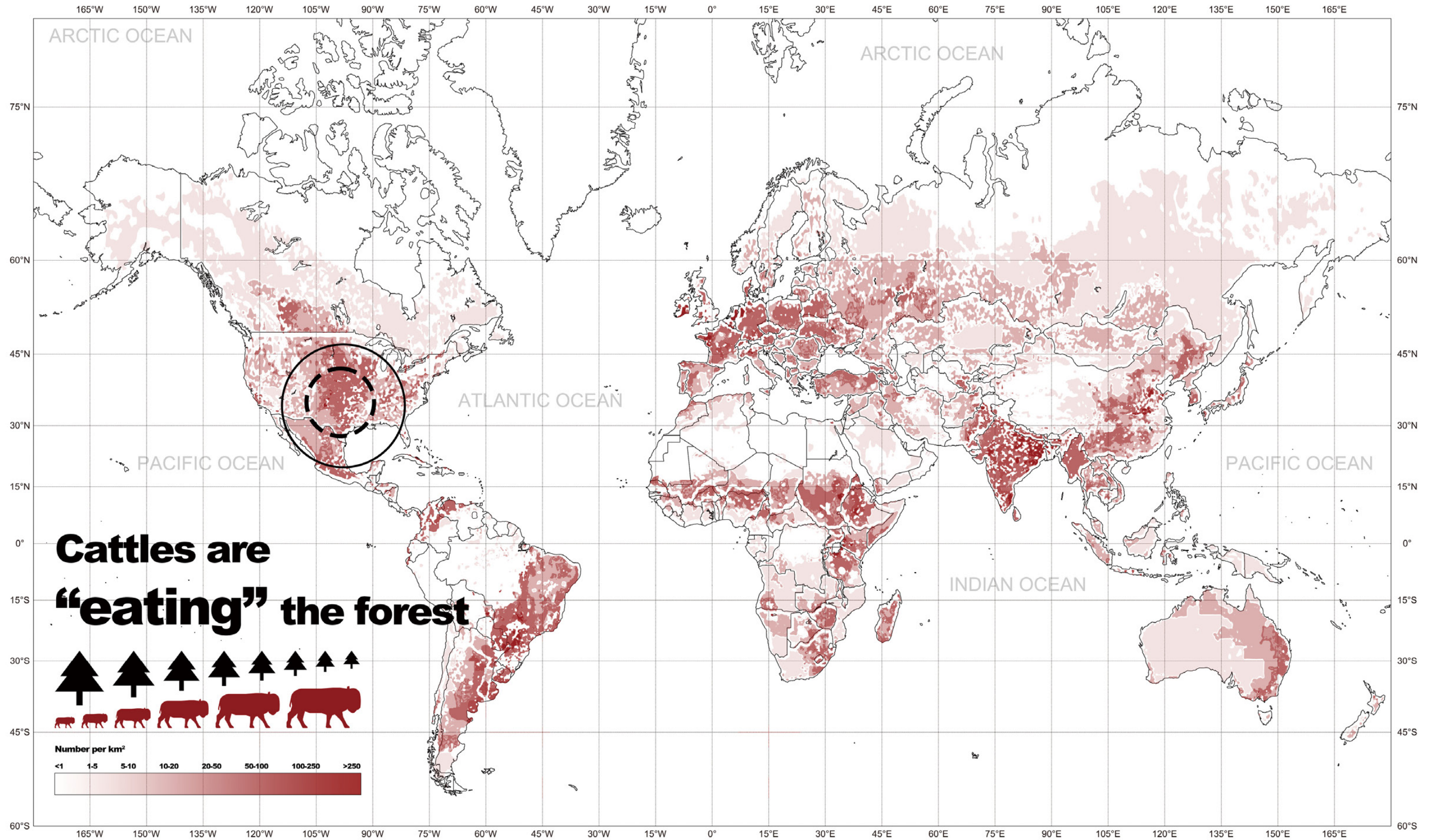
Retail



How much does cattle industry offers?



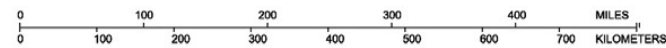
Cattle Density Map



4.43 million acre of land

could be saved from cattle industry

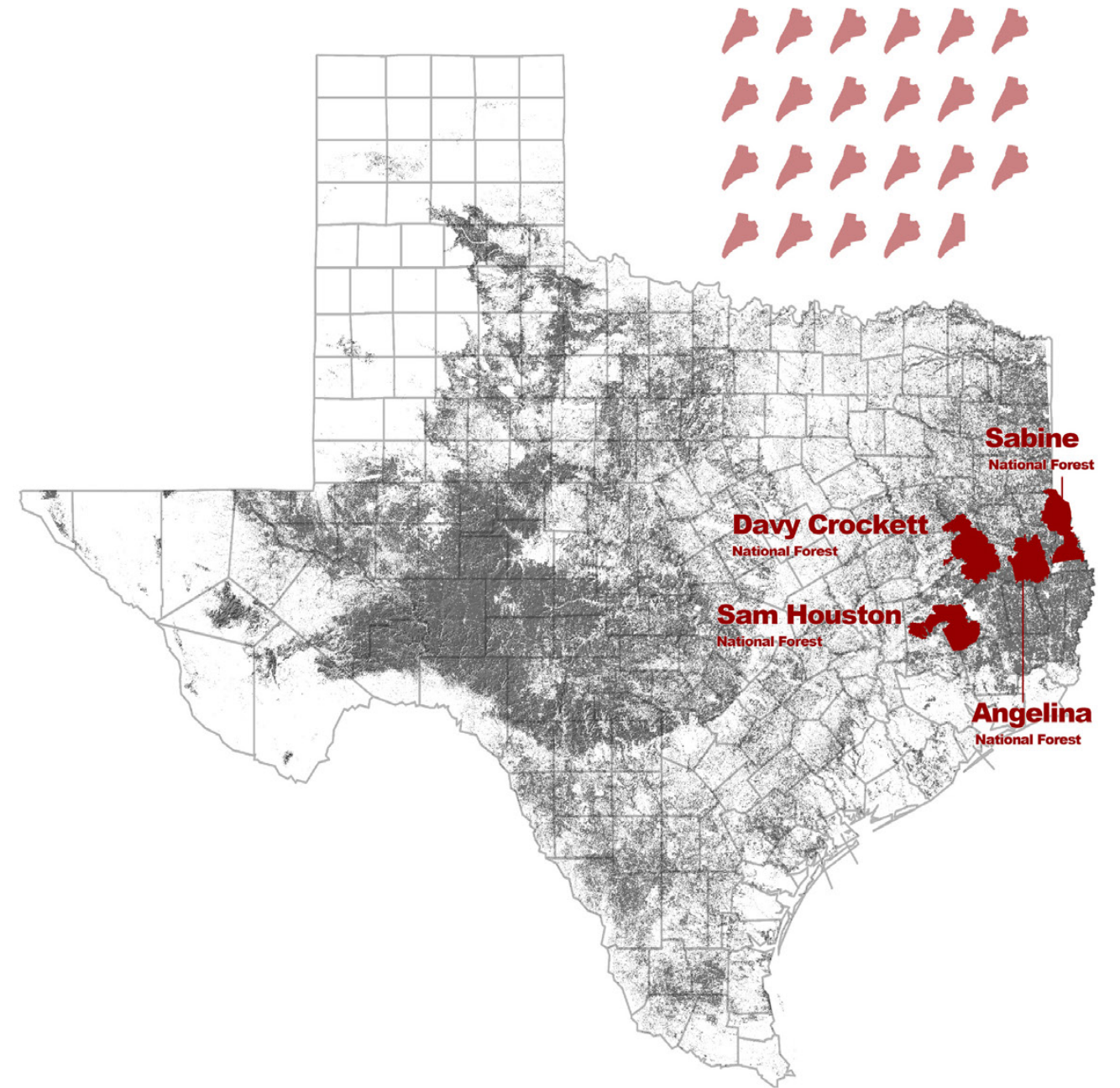
≈ 22.87 New York City



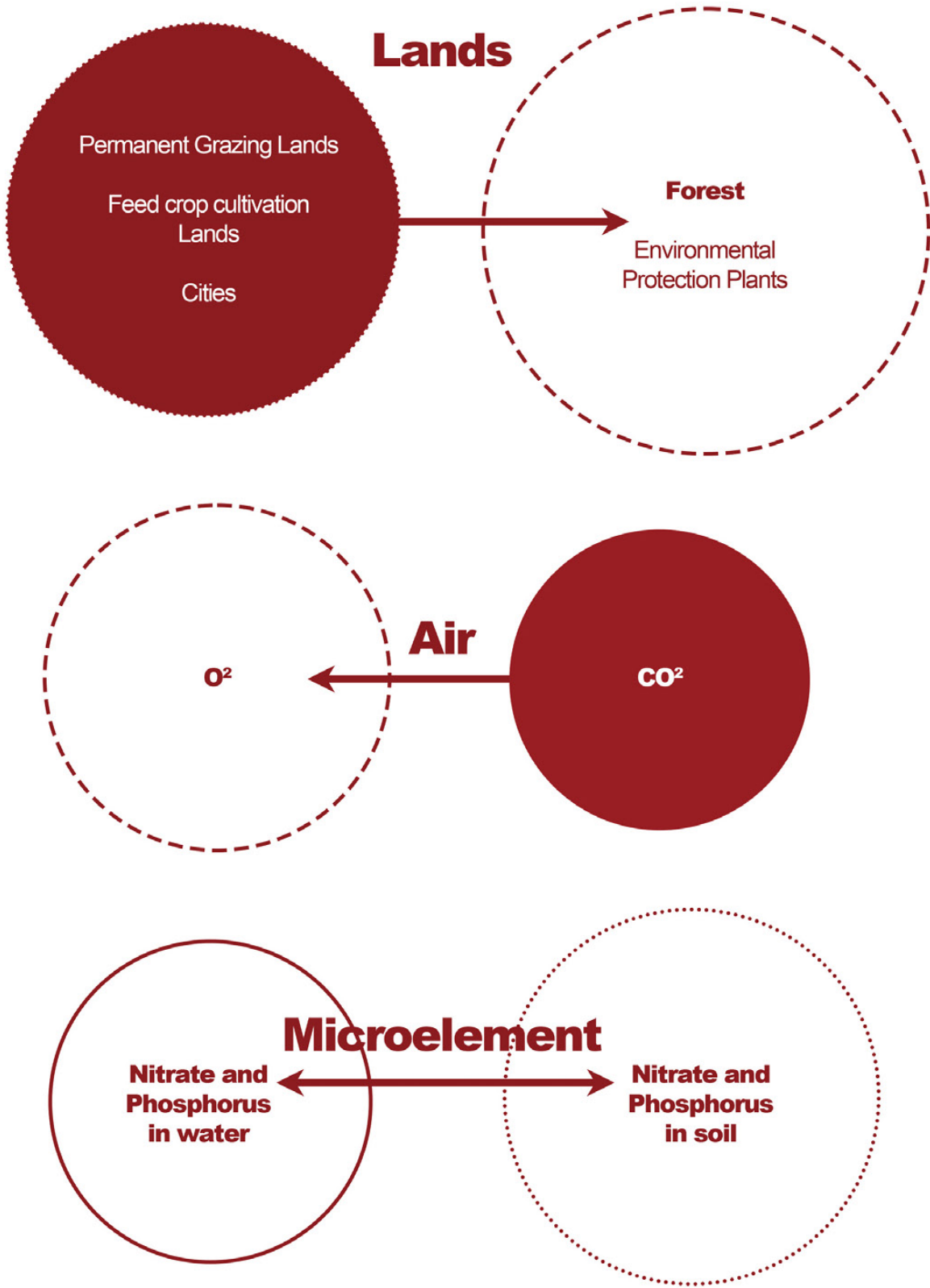
National Forest

approximately 675,000 acres of public land is divided into four National Forests

4.43 million acres ≈ 22.87 x New York ≈ 6.5 x current national forest



The Balance



with 200 trees per acre
 = **3.5 million trees**
 x 48 = **168 million pounds of CO² per year**

2.37 billion burgers Mcdonald's sold per year
 ≈ 20.9 million pounds of CO² emission

Program processing chain



Clean water and fresh air

Up to 88 percent of nitrate and 76 percent of phosphorus is reduced after agricultural runoff passes through a forested streamside buffer.



Chemicals, fuels, and construction materials

Plants equipped with carbon capture and water treatment technologies would replace some of the meat processing factories, and help to fight climate change.



Beyond meat



Forest



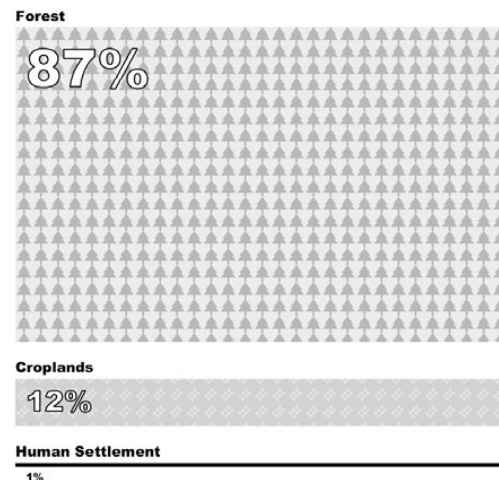
Environmental protection plant



Restaurant

Hamburger

Transform the lands used for grazing and barren into forest, applying the force of nature into fighting climate change.



Metabolites include urine, manure and greenhouse gases

To Grow a Forest

1 Identify native species

LIVE OAK, CEDAR ELM, SOUTHERN RED (SPANISH) OAKS, TEXAS ASH, BLACK CHERRY, etc.



2 Nurture the soil

Make use of the fertilizer from cattle farm for other brands' burgers

3 Plant seedlings

4 Tend for a few years

Water and weed for the first 2 or 3 years

5 Let it grow

With little disturbance

10 Years

with human intervention

600 to 1,000 years

naturally

Make up the lose

of by-product by using triple New York city size space

Leather

Artificial Leather

Animal Fat

Vegetable Oil

Animal Hair Brush

Synthetic Brush

Horn Product

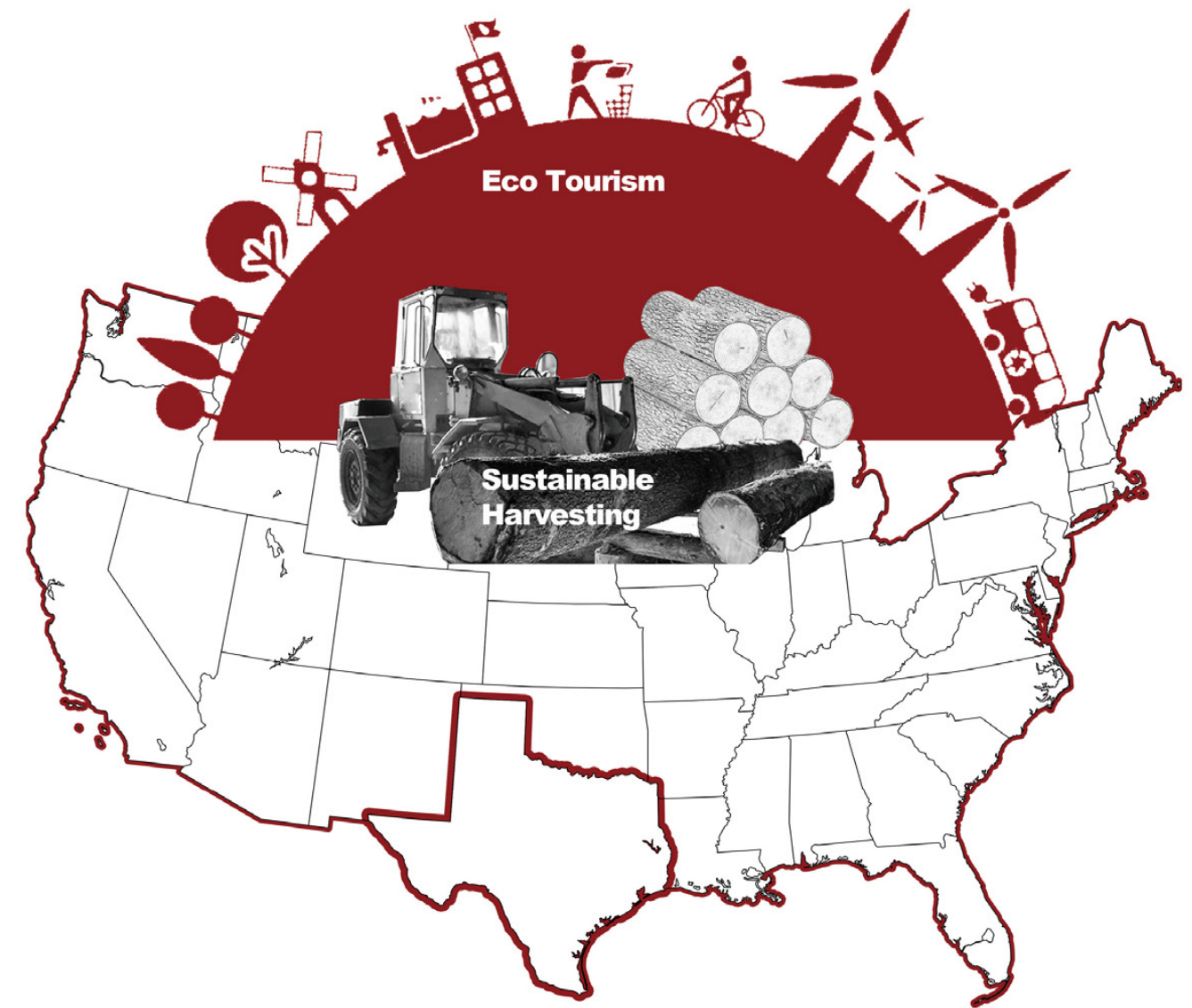
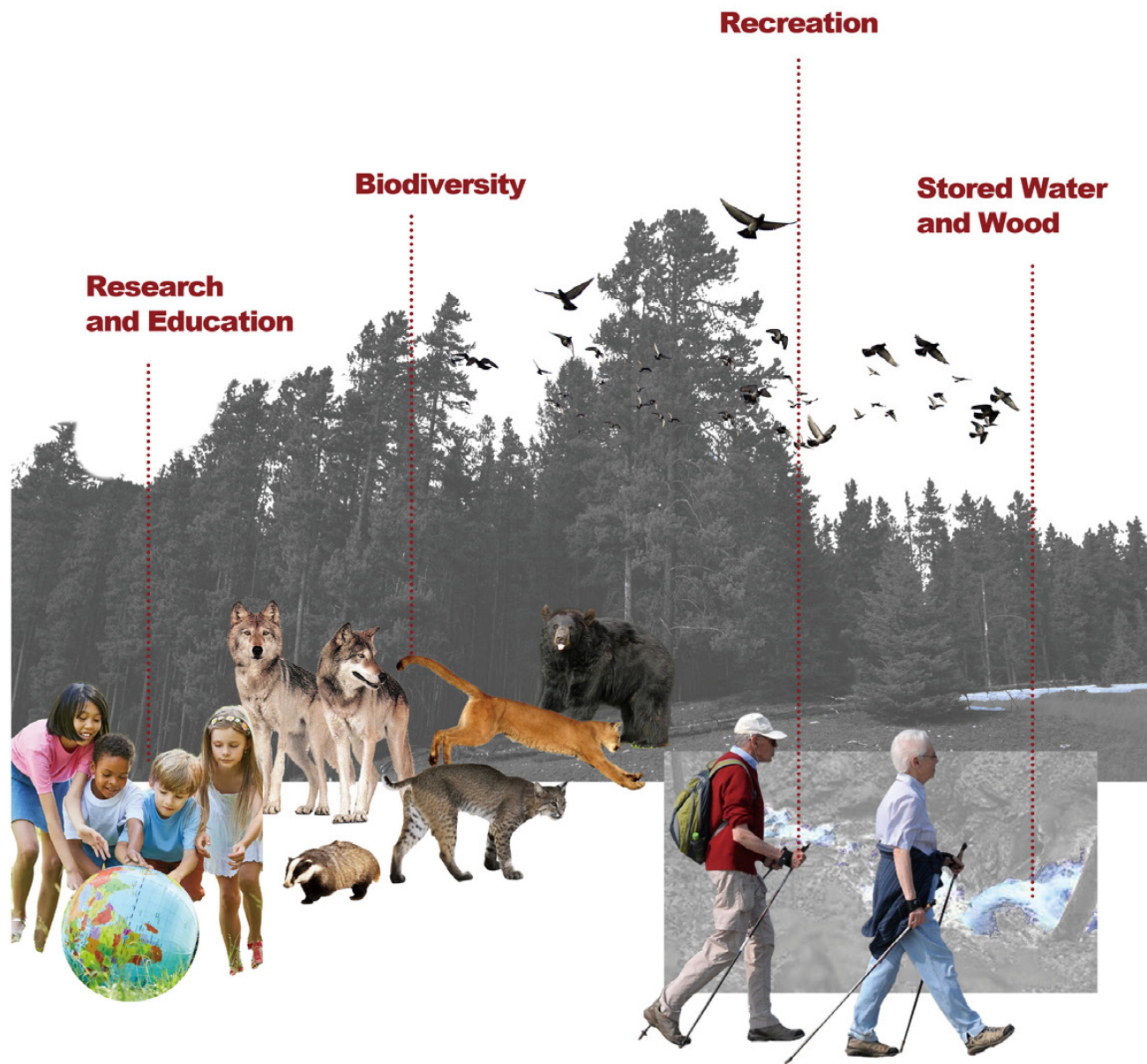
Plastic

Inside the forest

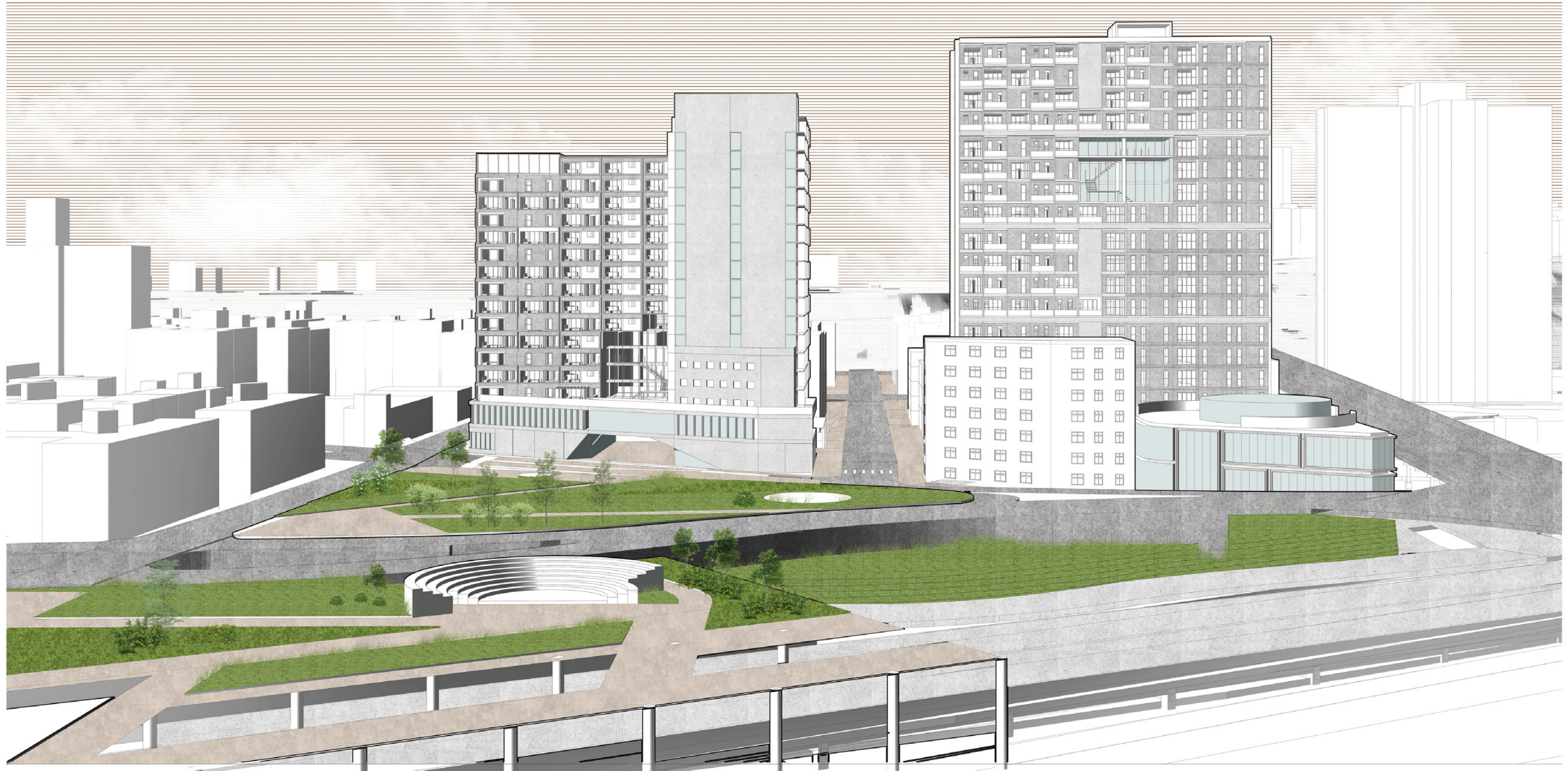
Forest with its multiple functions

Ownership of the Forest

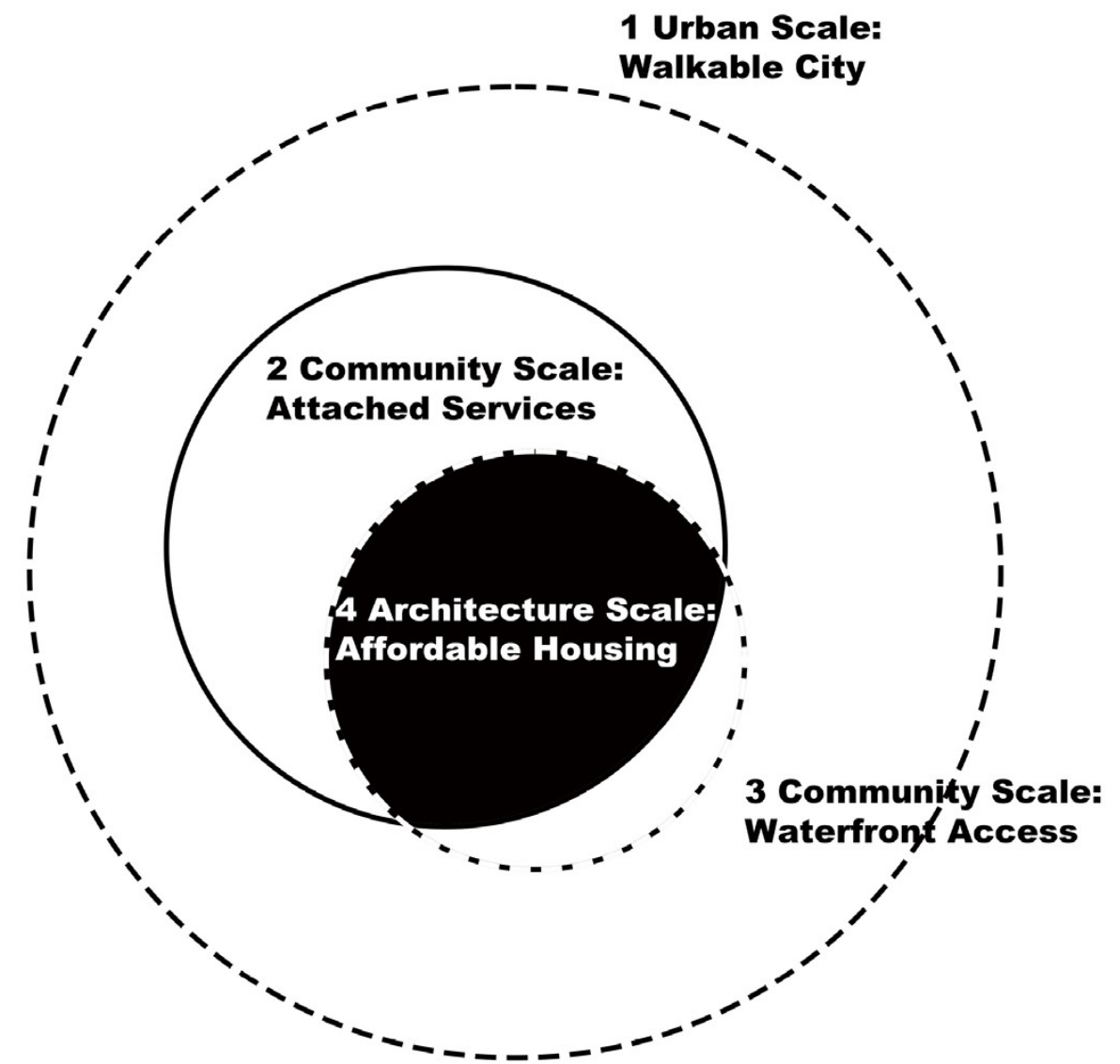
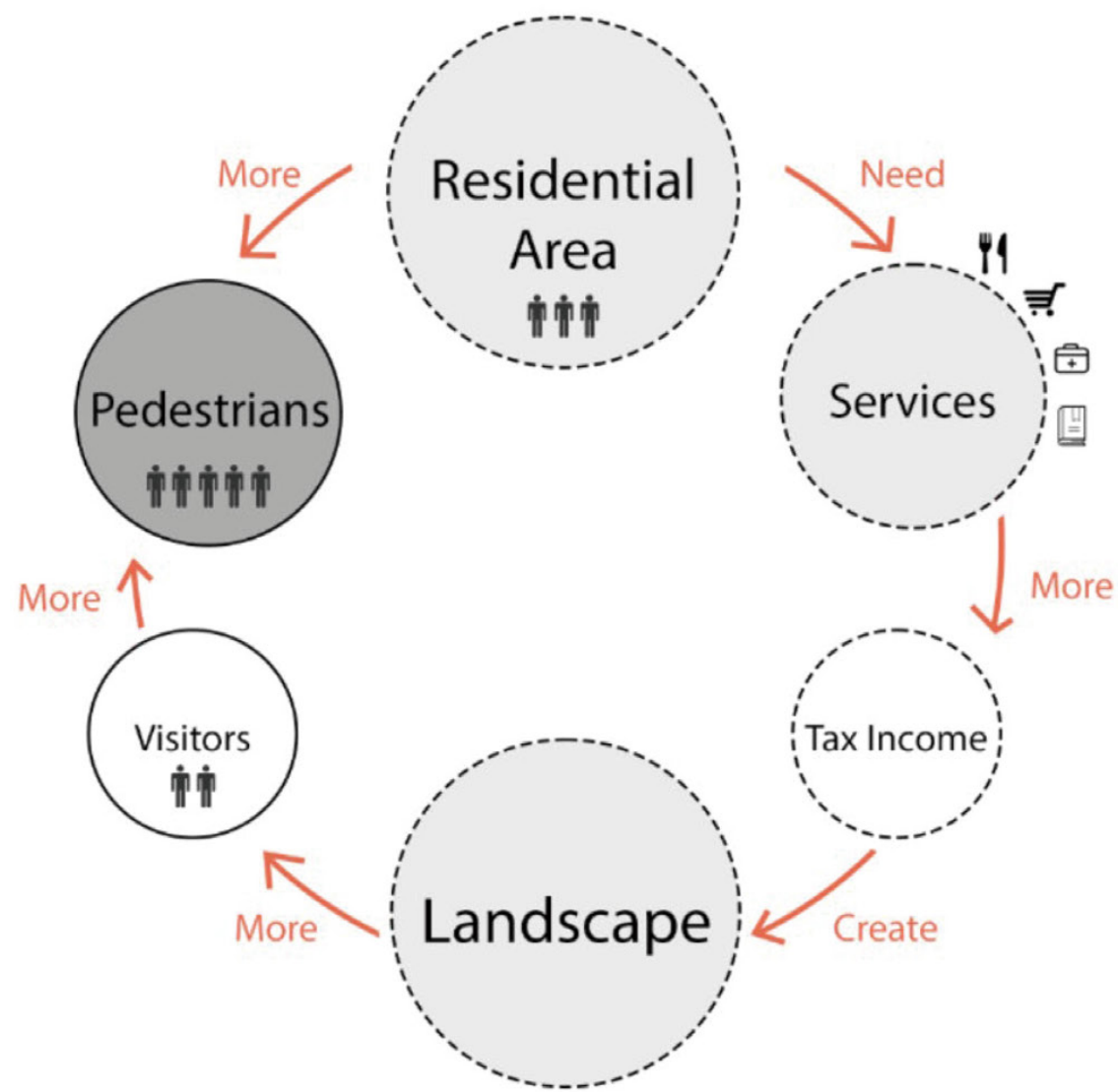
Government/ state owned public private partnership

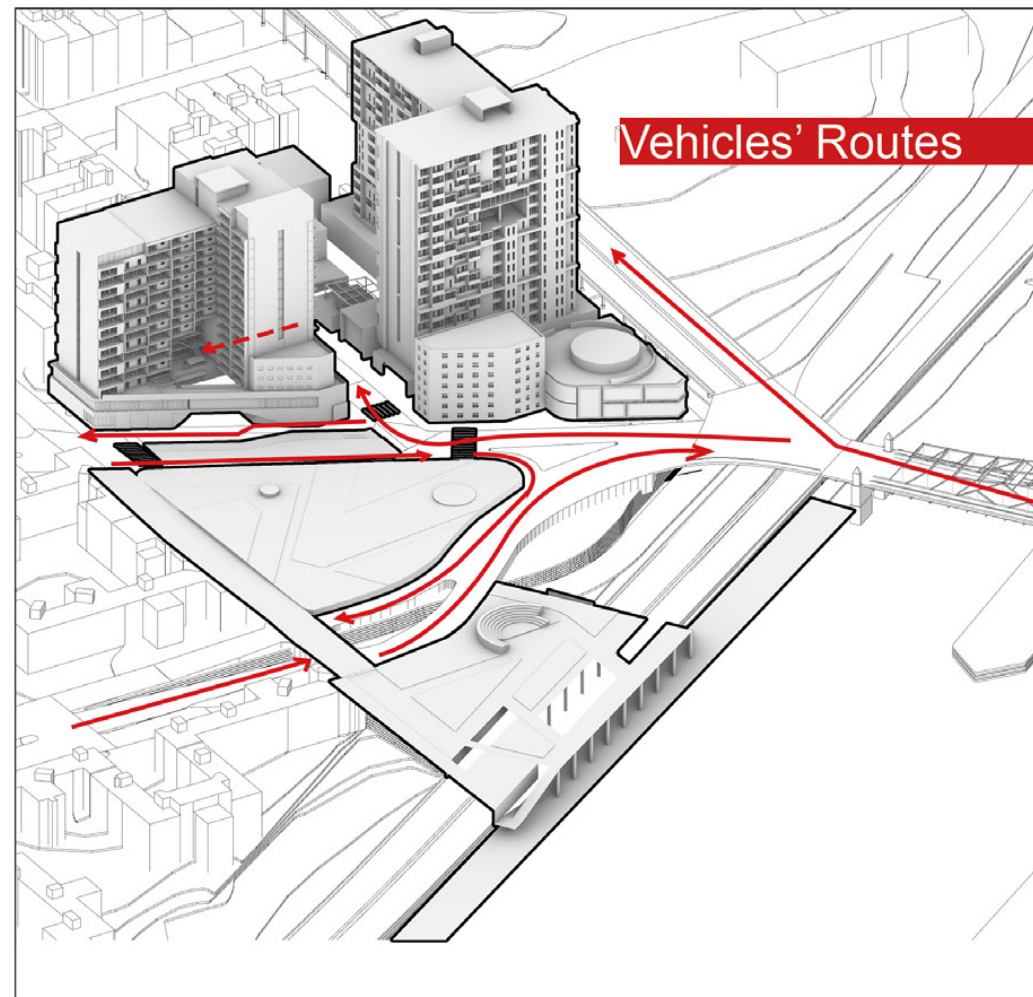
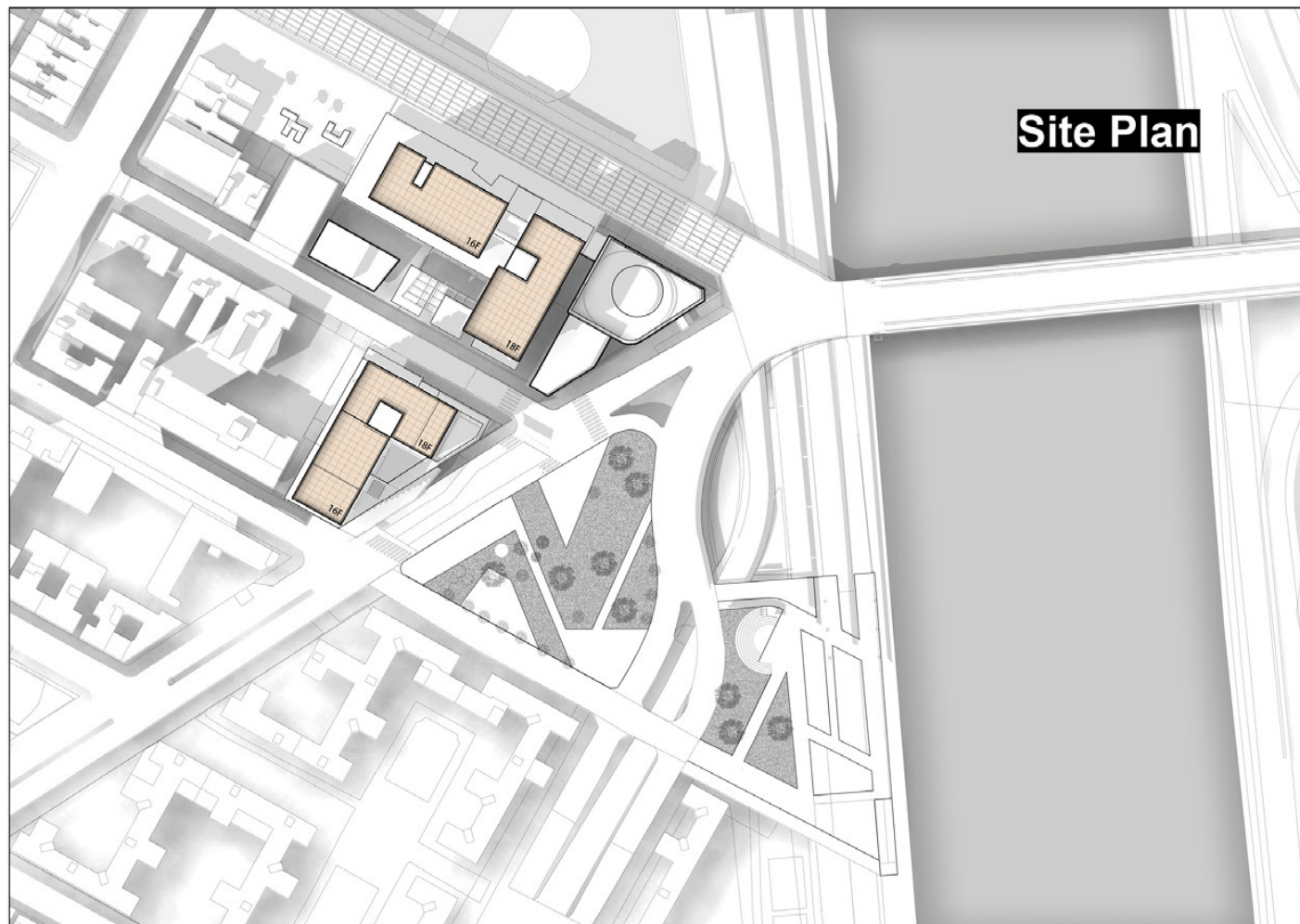
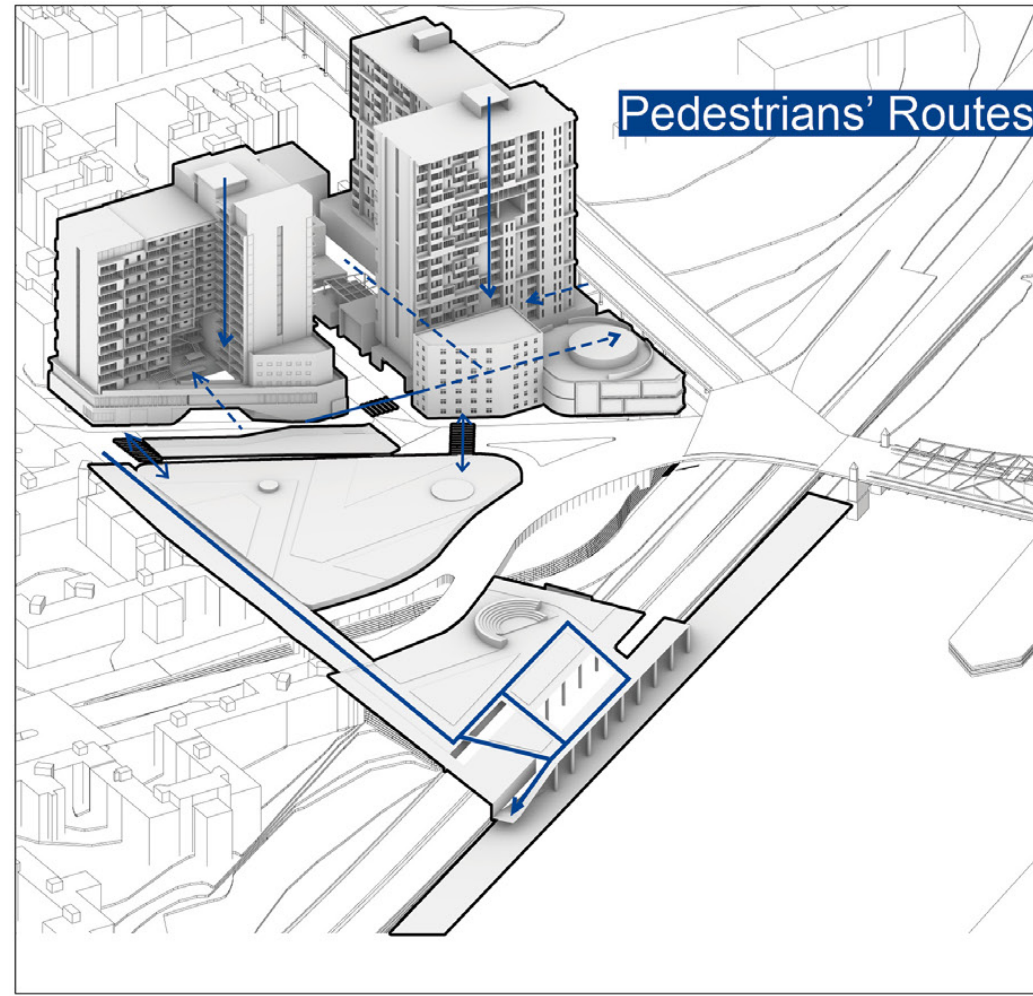


Course Information:
Under the Viaduct
ARCHA4105_007_2021_3
Victor Body-Lawson, Richard Plunz
Group Work: Qingfan Wu, Zheng Yin

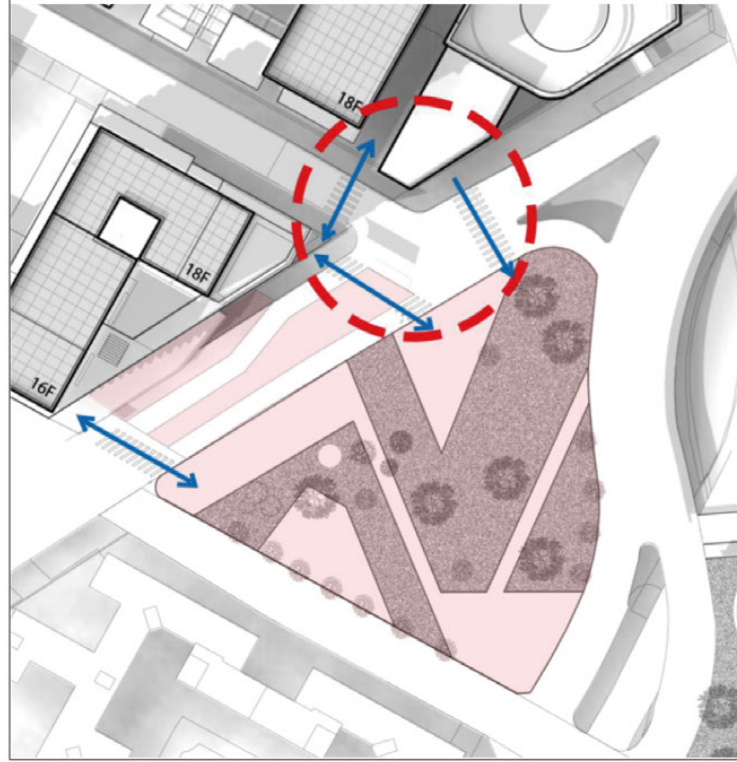


“Pedestrians First”

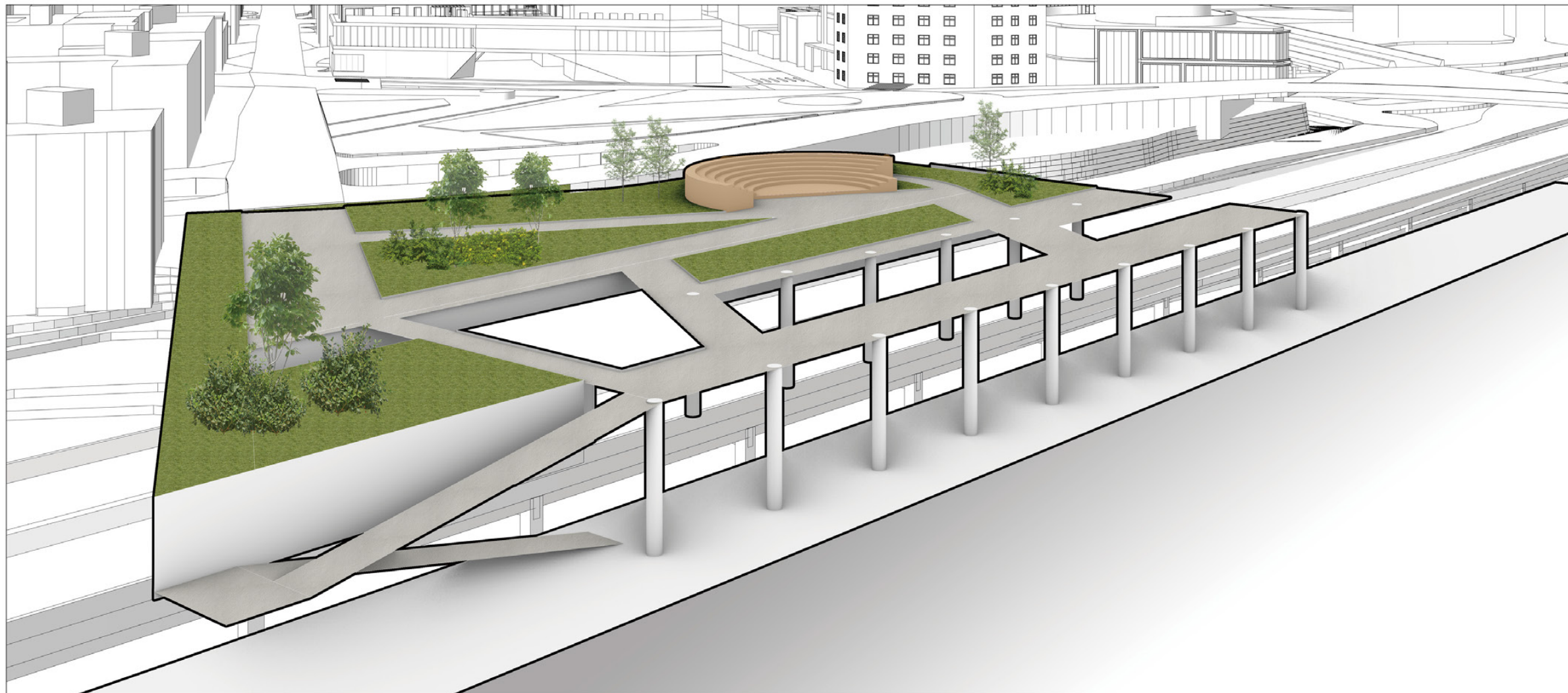
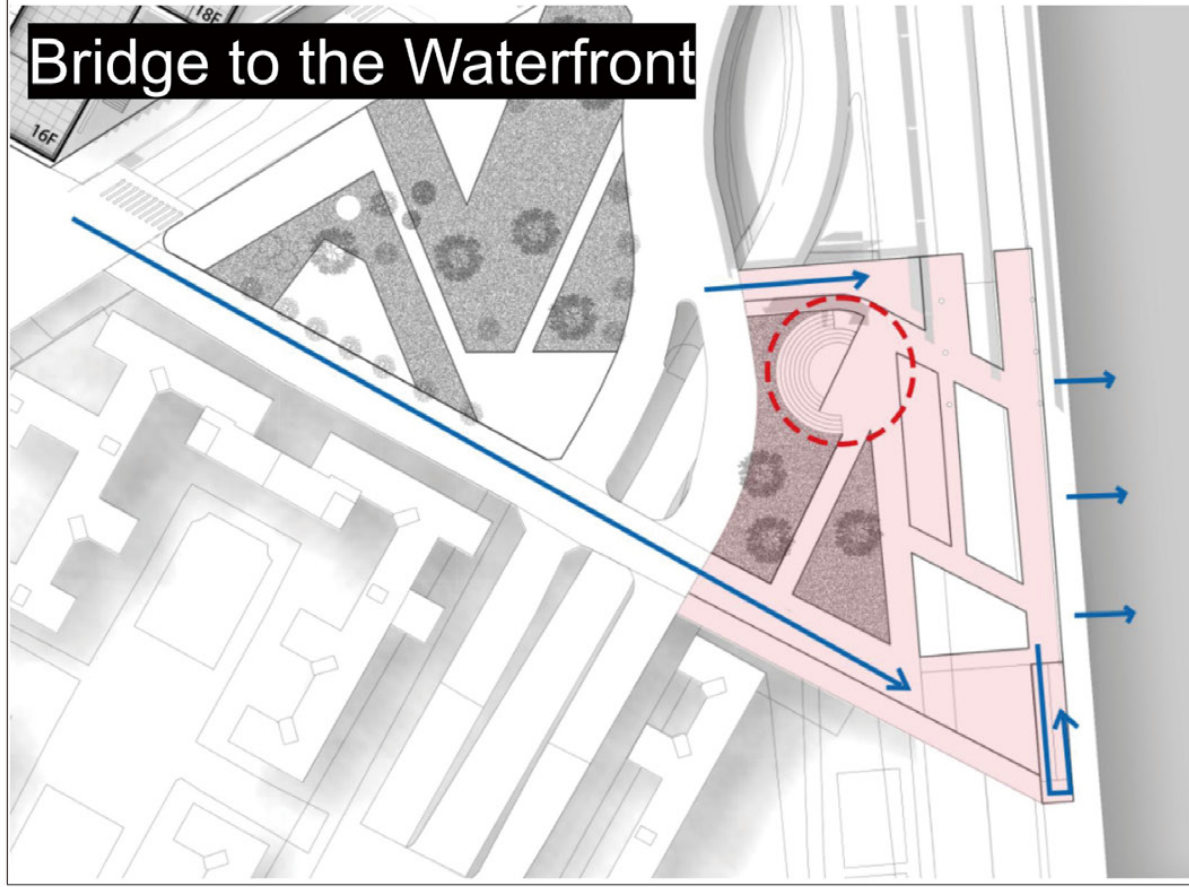


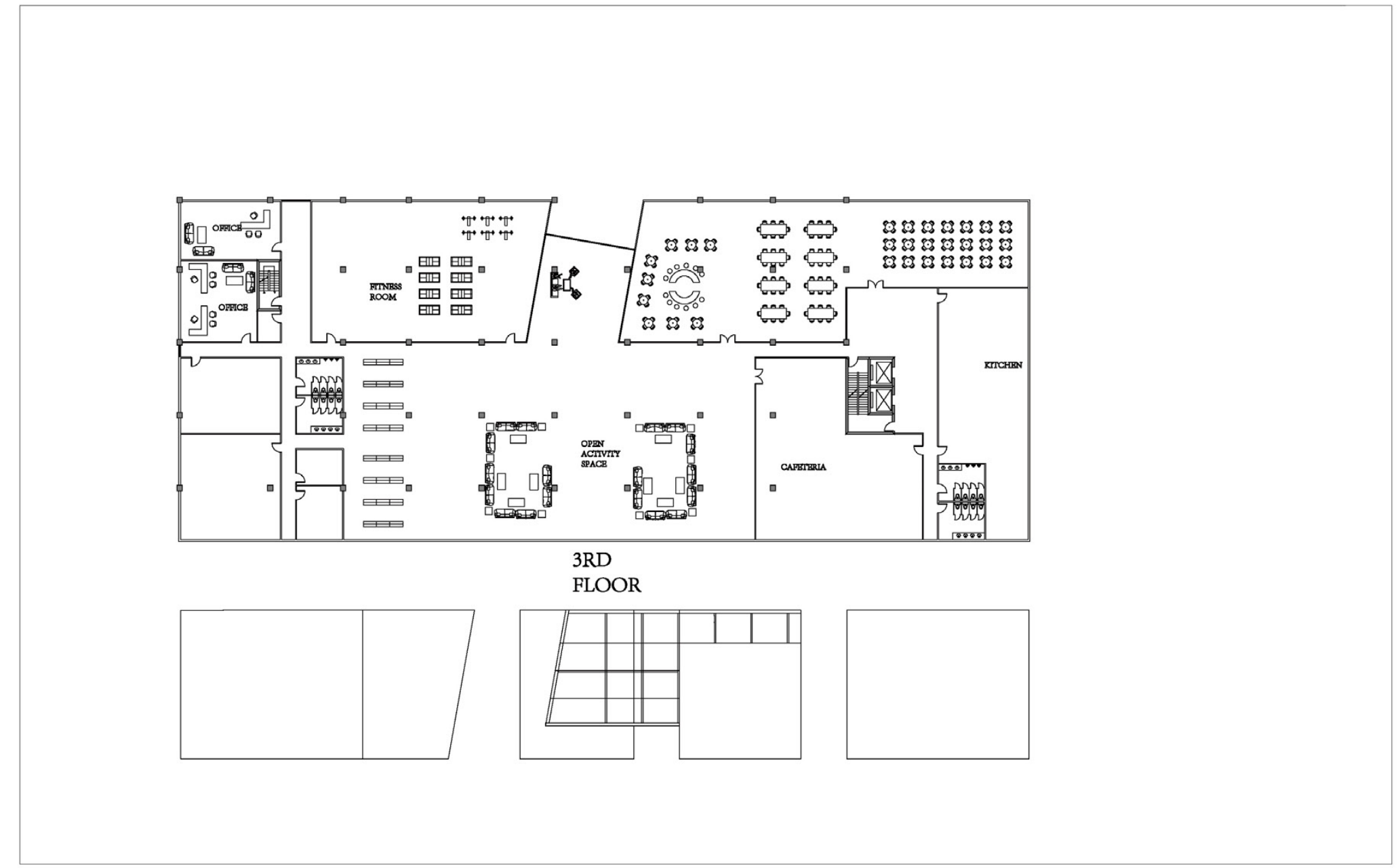
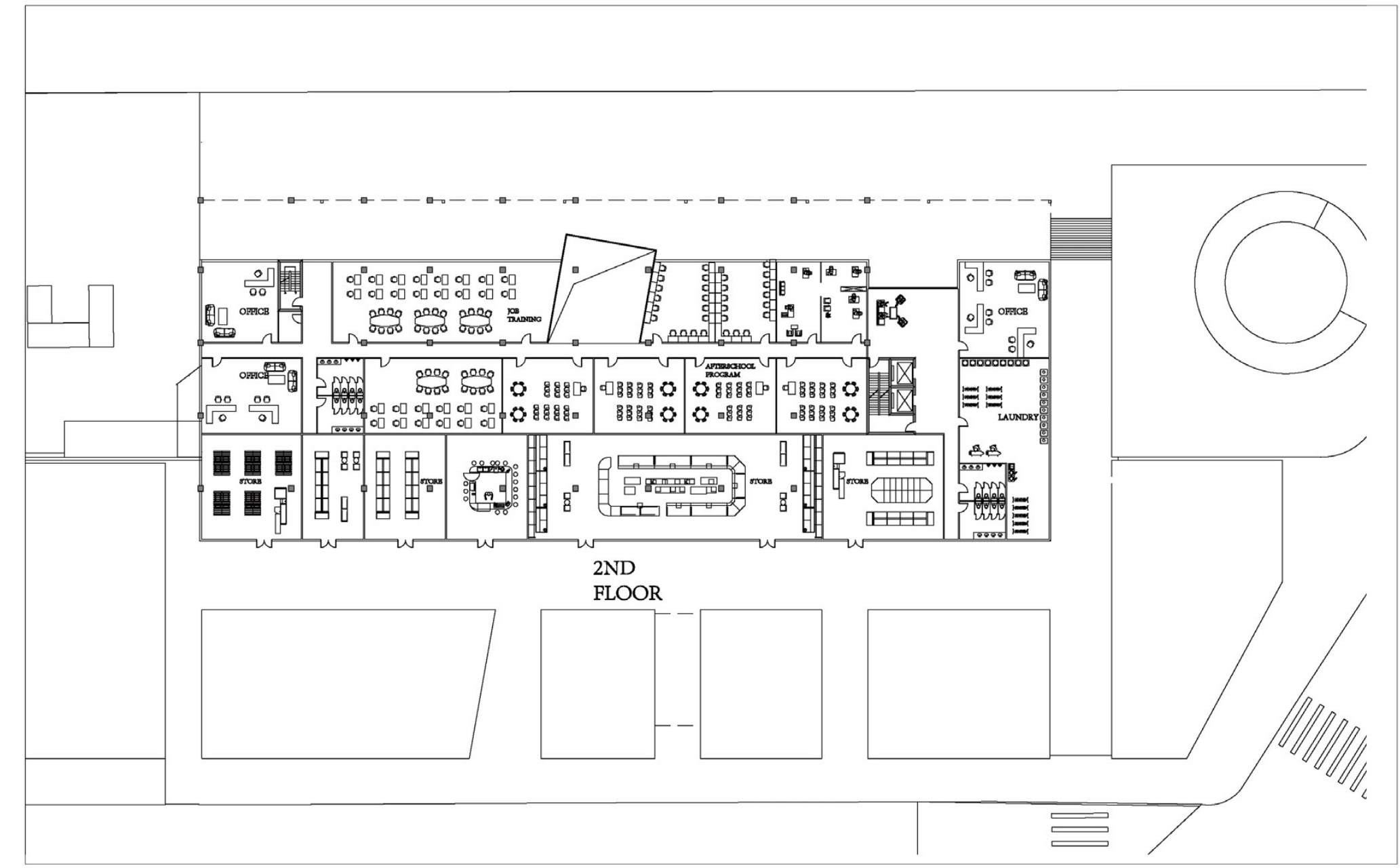
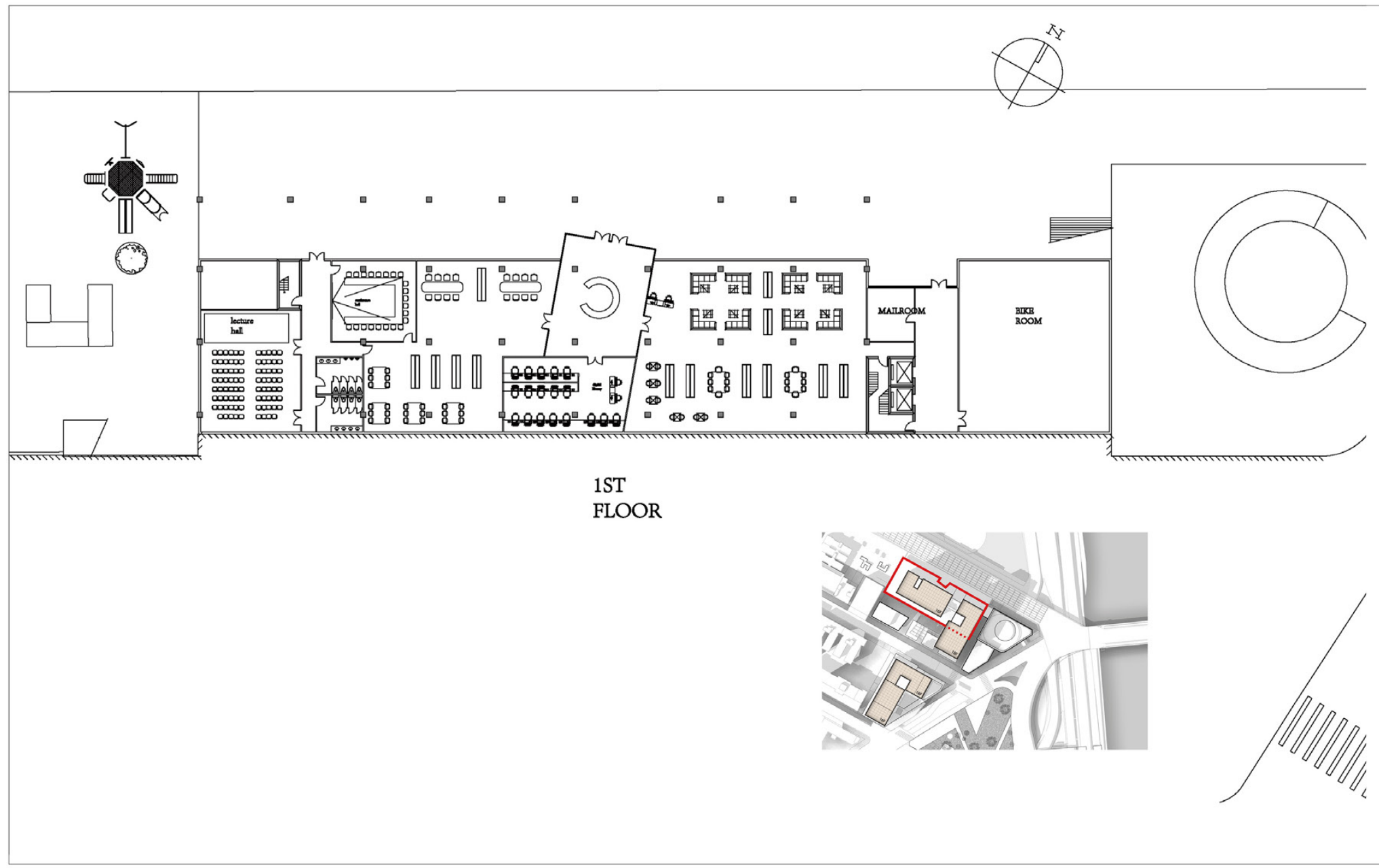


Rebuilt Colonel Charles Young Triangle

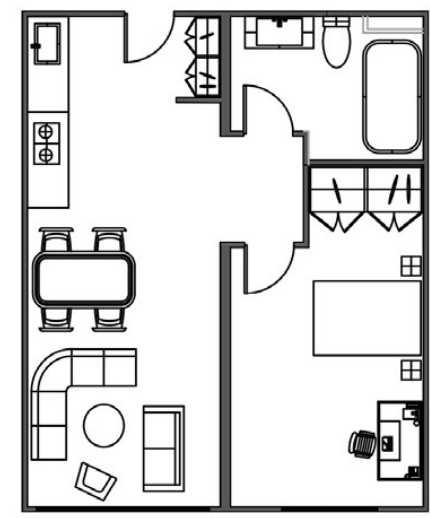
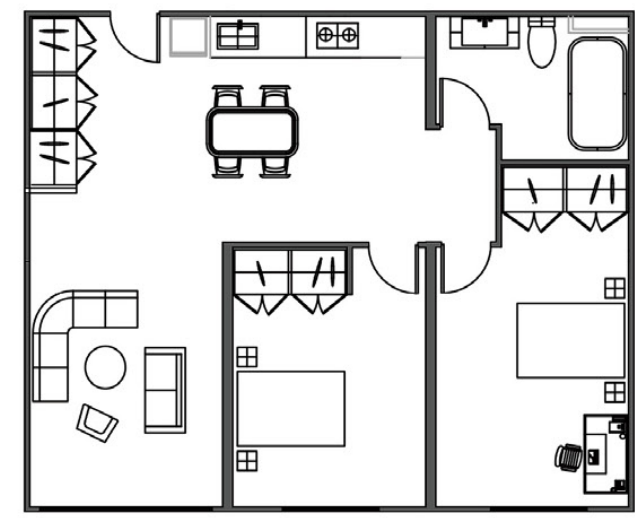
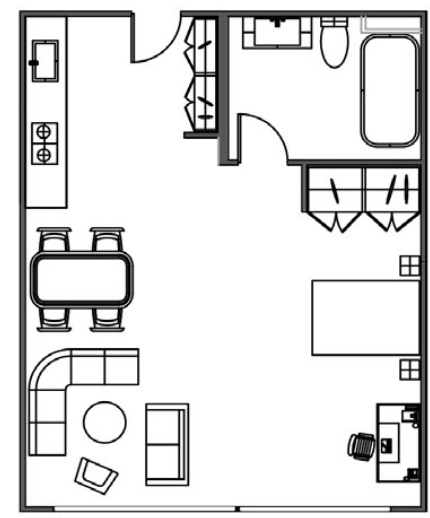
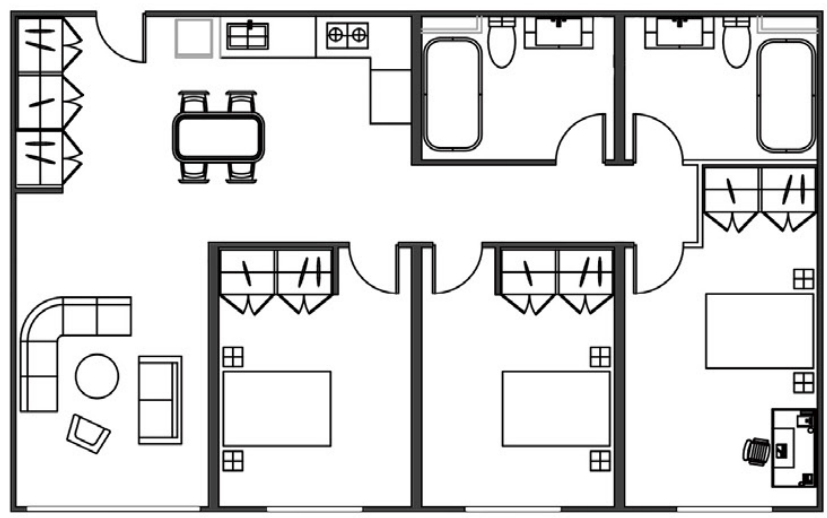
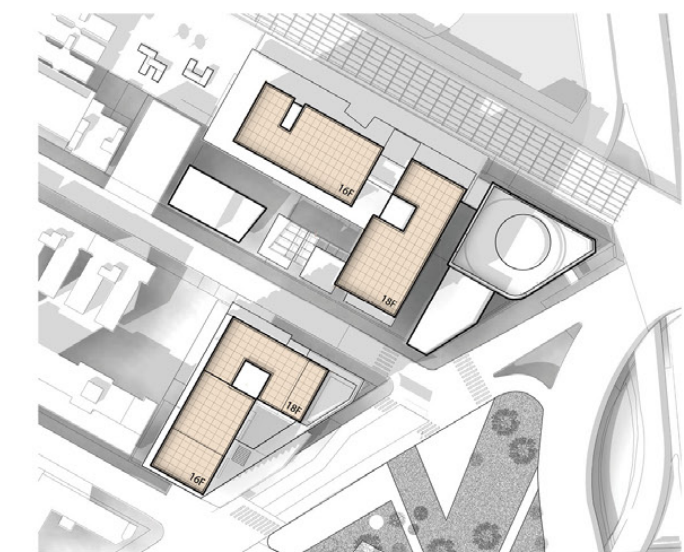
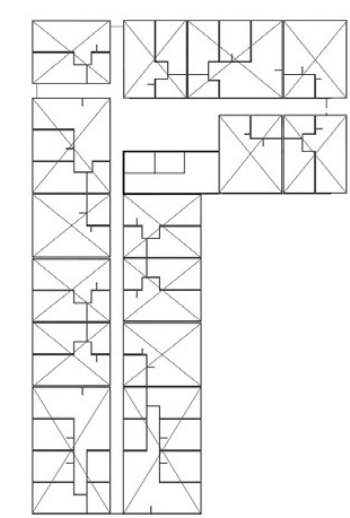
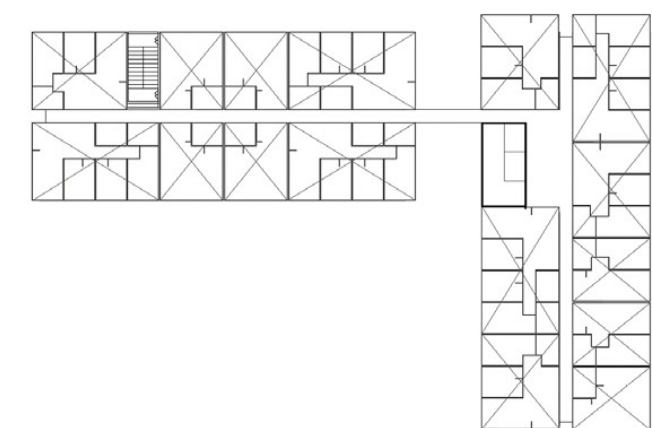


Bridge to the Waterfront





Modules





Affordable Housing

Stores

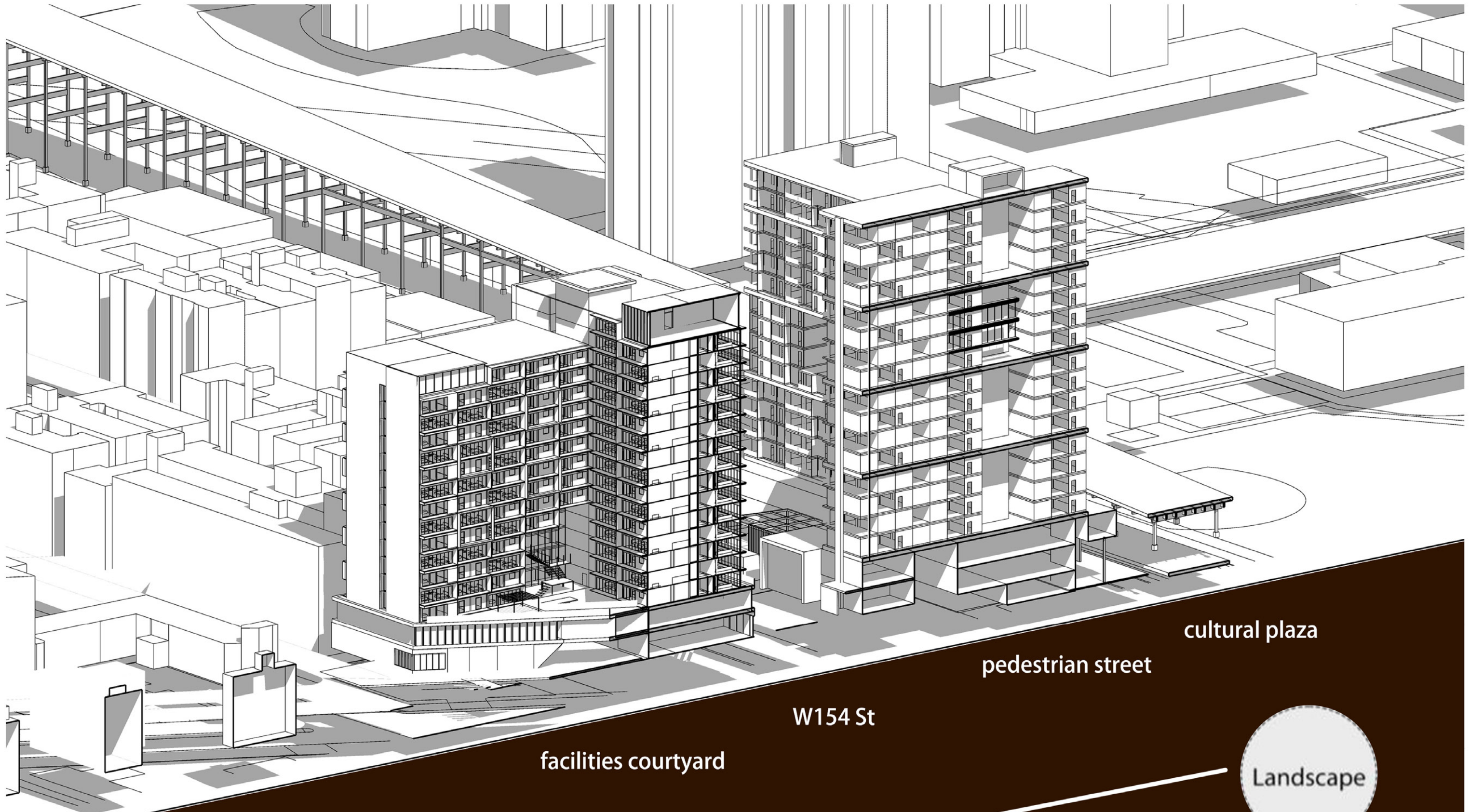
Afterschool Program

Computer Room

Brdhurst Public Library

Inner Street

Cultural Plaza

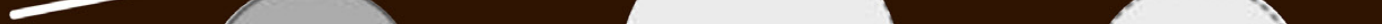
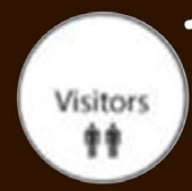


facilities courtyard

W154 St

pedestrian street

cultural plaza





NYCHA: At a Crossroads

25% Childhood Asthma

NYCHA has failed to fix nearly 60,000 mold complaints
 Mold: A Trigger for Asthma
EXCLUSIVE: Mold-ridden NYCHA buildings could trigger long-term asthma problems, health experts say
Mold Makes Everyone Sick
 Mold exposure can cause headaches, sinus congestion, shortness of breath, skin irritation, permanent respiratory problems, chronic fatigue syndrome, and in rare cases, central nervous system problems (loss of balance and difficulty breathing).
HARLEM WOMAN SUES NYCHA OVER LEAKS AND MOLD THAT FESTERED FOR MONTHS
 East Harlem boy suffers severe asthma from mold in NYCHA apartment, family says city won't fix the problem

Only 7275 apartments are barrier-free

Accessible Homes? Not Really, Say Disabled Residents
 Nowhere to Go: The Housing Crisis Facing Americans With Disabilities
EXCLUSIVE: Staten Island woman sues NYCHA after waiting eight years for wheelchair-friendly apartment and never receiving it

22% of NYCHA residents are the elderly

Older Renters are Increasingly Living Alone
 Senior Housing Shortage is Getting Worse
This Bronx Grandmother Died Alone in Her NYCHA Apartment.

75% of apartments are poisonous

NYCHA'S Lead Paint Crisis Explodes as Known Number of Apartments Where Kids Risk Exposure Triples
Lead Poisoning is a Danger for every baby and child
HOW LEAD PAINT CHIPS & DUST CAUSE BRAIN DAMAGE AMONG CHILDREN
 Report says NYCHA violated lead paint regulations since at least 2013

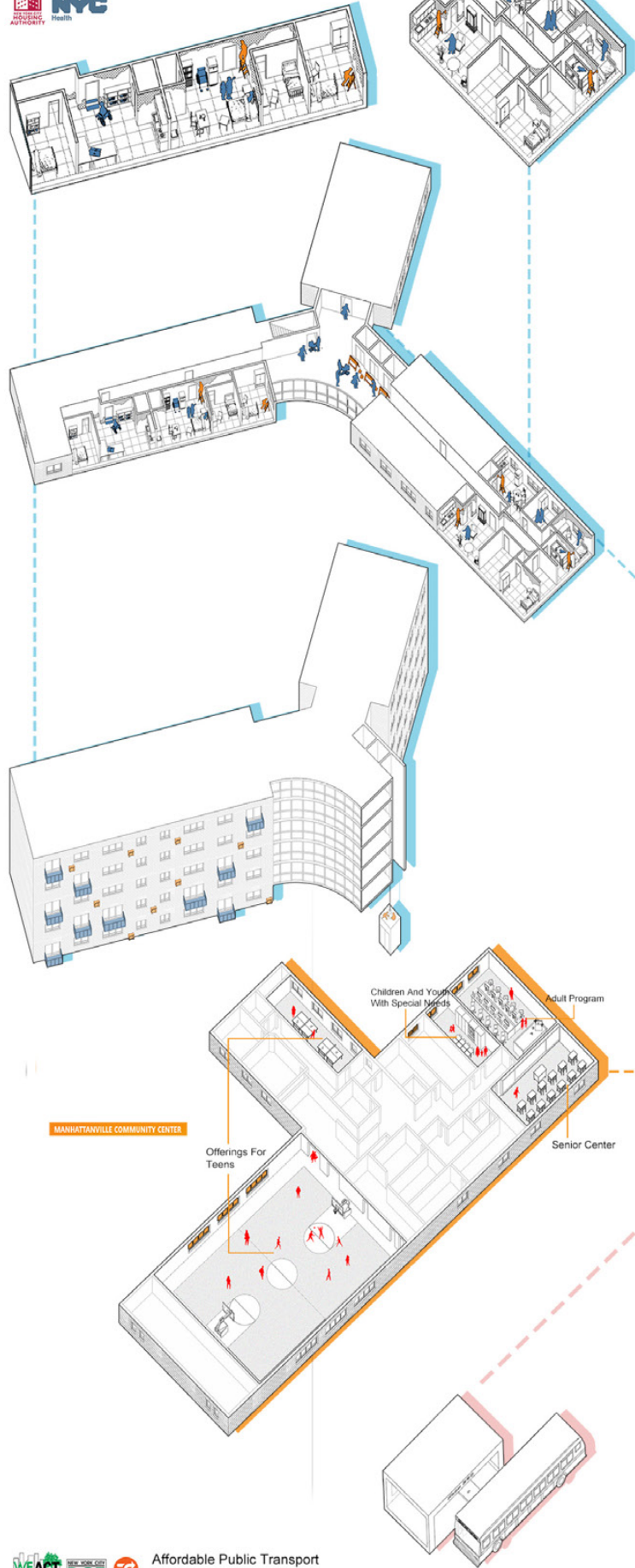
121 Elevators breakdown per day

Behind the Elevator Doors: The Great Unknown
 Public Housing Building Without Elevator Service For Two Weeks
A Bronx Grandmother Complained Repeatedly to NYCHA About Elevator Outages. Now She's in a Coma After Falling in the Stairwell

Being excluded from daily life

Why is it so difficult for older people to use a smartphone?
7 Problems Elderly face when using smartphones
 Older adults' attitudes and barriers toward the use of mobile phones

Nycha is carrying out different projects, such as Lead-Safe Housing Policy, mold busters and pest control for Improving the living environment, section 504 of the Disability Act, and The Senior Companion Program for the considering of the accessibility and senior problem. However, because of inadequate money, most of Nycha's rescue projects are still on paper.



Affordable Public Transport & Safe School Bus

In recent years, bicycle lanes, bus system facilities, and subway routes have been constructed in Northern Manhattan.



WEACT
West Harlem Piers Park
 In order to ensure that the Northern Manhattan community is able to fully benefit from the space at the waterfront near the 135th Marine Transfer Station, WEACT led the creation of West Harlem Piers Park.



WE ACT for Environmental Justice is a Northern Manhattan community based organization whose mission is to build healthy communities by ensuring that people of color and/or low income participate meaningfully in the creation of environmental policies and practices.

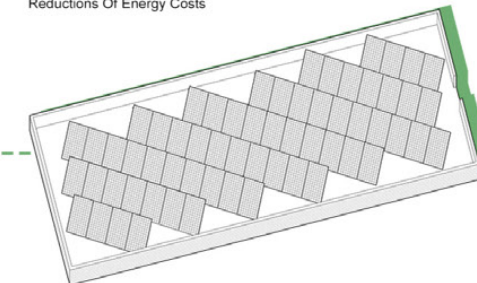
Green energy promotion



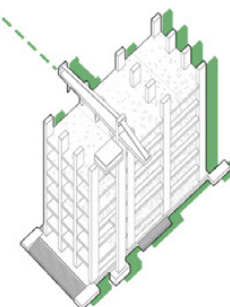
Protest for Public Housing Crisis



Reductions Of Energy Costs



Manhattanville Community Center After School Program
 Manhattanville Community Center that is able to continue to serve the community by providing programs for teens, seniors and services that enrich the lives of those residents. It also has an After School Program for children. Manhattanville is known for serving children and youths with special needs.



Dust Reduction
 Construction dust contributes to medical problems. WE ACT is supporting legislation to monitor levels of dust on construction sites, and partner with other healthy housing advocacy organizations to promote safe construction dust mitigation practices.



USA TODAY
08.02.20



Brie Larson flexes muscle on set of 'Captain Marvel'

It's back to 1995 in a movie where a woman may be the most powerful hero in the galaxy. **In Life**
CHUCK ZLOTNICK

NEWSLINE

IN NEWS

Biden family supports a presidential bid

Former vice president says he is close to deciding on a White House run.

IN MONEY

Cannabis is going upscale, mainstream

Smoking accessories and hemp-based products coming to a mall near you

Target website adds third-party sellers

Target+ marketplace is by invite only, differing from Walmart, Amazon sites

IN SPORTS



TRISH TADAMINA/USA TODAY SPORTS
Defending Harden is

New dynamics in NYC public housing

NYCHA residents request home ownership

Bart Jansen, Kevin Johnson and Brad Heath
USA TODAY

Manhattanville is currently completing an ongoing community led transformation project funded by the city with federal funds. The government has made a commitment to maintain

funding for the project's maintenance. And yet, residents of the NYCHA Manhattanville Houses are asking for more: They want shared ownership of the building. They argue that these will help respond to years of disenfranchisement resulting from legislation that made access to

home ownership extremely difficult for communities of color, which constitute the majority of public housing residents. They consider that it has been their demands and work that has helped valorize the buildings--from their near collapse.

See COHEN, Page 2A



THE VIETNAM SUMMIT

Flourishing New Manhattanville

NEW MANHATTANVILLE
FLOURISHING

With a collective effort of all residents and organizations



Construction Statement



Security Guarantee
Dear Residents,
We are in the process of repairing and renovating the roads in our community, we guarantee that our construction is safe and reliable. We also welcome you to join us in building our community.



New Entrance
Residents, please note that after renovation, our community will have new entrances and exits!



Construction Time
9:00-12:00
14:00-18:00



WE'VE HEARD YOU, IT'S TIME TO CHANGE



COLOR MANHATTANVILLE

Artists
Invitation

Sunshade decoration plan

With the success of the Community Renewal Program, our community has been given a new look. Residents are now decorating the shades on each home. We warmly invite you to join us!



MANHATTANVILLE COMMUNITY CENTER

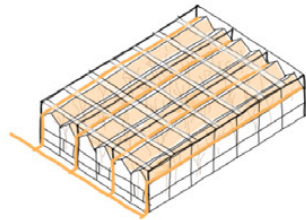
NEW MANHATTANVILLE

6.Green space adjustment

Because of the low use of green space, we are taking advantage of the large-scale renovation to redesign the entire neighborhood road system and green space.



7.Ubran Farm

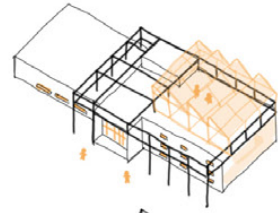


We also planned a greenhouse and outdoor planting site for **Harlem Grown**. Harlem Grown works to inspire youth to lead healthy and ambitious lives through mentorship and hands-on education in urban farming, sustainability, and nutrition. We would accompany our community to introduce the planting industry in the outdoor public space.

8.New Facilities

For a better and healthier future of MANHATTANVILLE!

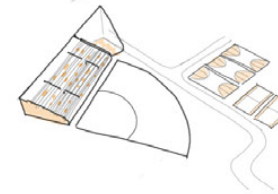
New Community Center



New outdoor event space and landscaping facilities



New sports field



9.Job Opportunities

Another good news! All projects are looking for workers! If you want to get paid for a job or have time to contribute to the community, come join us! We will provide free professional training.



<https://www.nycservice.org/organizations/319>

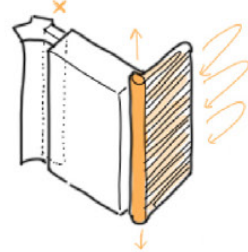


MANHATTANVILLE COMMUNITY CENTER

NEW MANHATTANVILLE

Through **OUR YEARS OF HARD WORK**, we have finally convinced NYCHA to renovate our community. Let's take a look at the specific **RENOVATION PLAN!**

1.New Circulation System

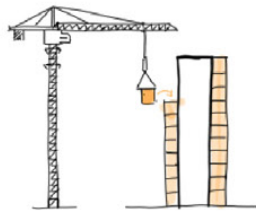
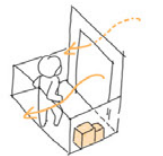


1. The original elevators are in disrepair, we will add new elevators at the end of each wing without disturbing the residents to use the old one.
2. A ramp system will connect each floor! Wheelchair users will now have another way to get around, even if the power goes out, without having to worry.



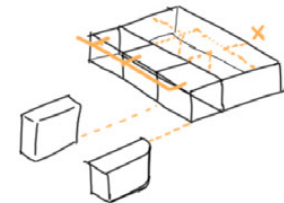
2.Balcony Program

To solve the problem of ventilation in summer, we will now add balconies for every home!



Benefits
-Better ventilation
-Increases the area of the house

3. Inside Pipe Out

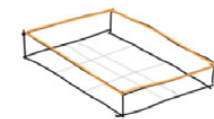


The water leakage problem of water pipes has plagued us for a long time and seriously affected our health. Now we replace the original ones with brand new pipes on the elevation. The bathroom and kitchen connected to the pipes will be arranged on the remodeled balcony.

This project will follow the renovation of the balcony.

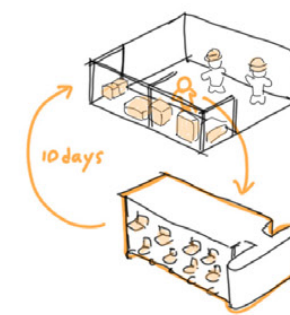
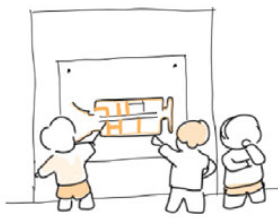
We will work together with **WEACT** for this project.

4.Interior Renovation



Thanks to the abandonment of the original difficult-to-maintain pipe system, the interior division is more freely remodeled, and can even be described as a completely free plane.

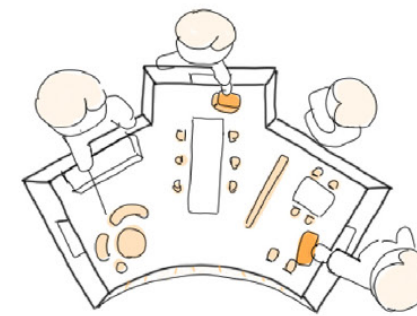
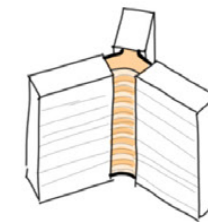
Interior adjustments require residents on the same floor to work together to choose an optimal floor plan.

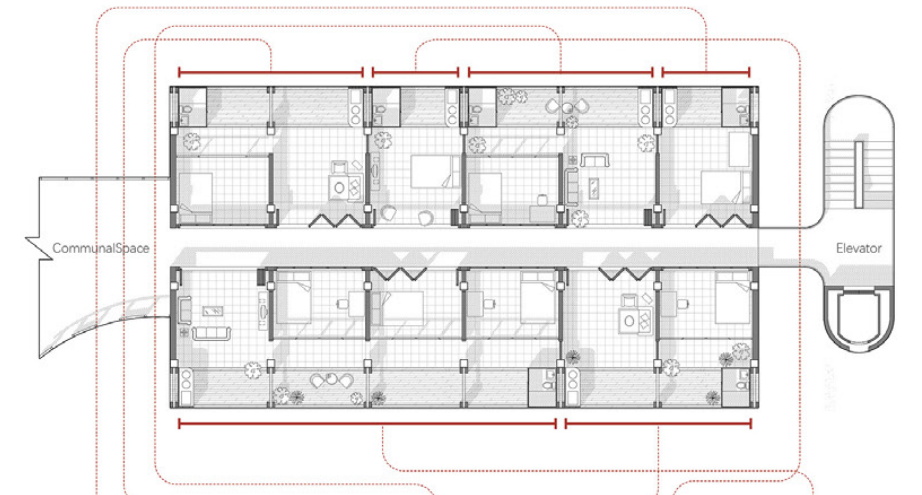
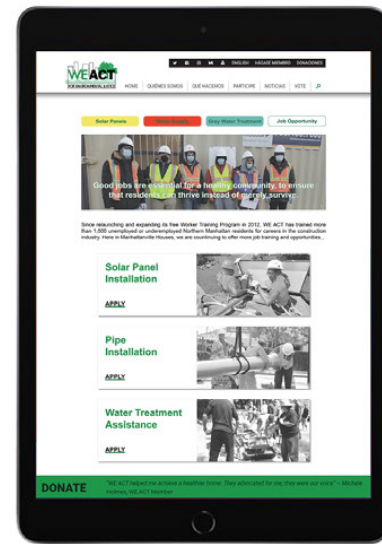
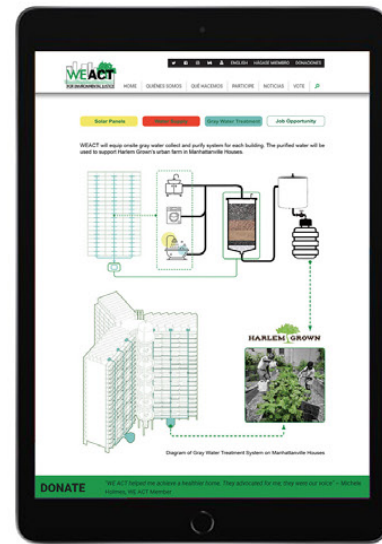
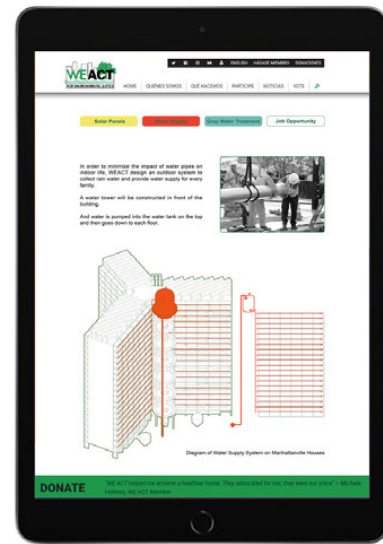


The residents will be temporarily moved into a re-housed apartment, where they can secure their daily lives. They can store their belongings in the converted balcony, and will be able to move back to their new home in about ten days.

5.common space

In the original staircase location, this will become the new common room because of the new system. Residents of the same floor can still negotiate its layout and usage together.





REdistributing Domestic Spaces

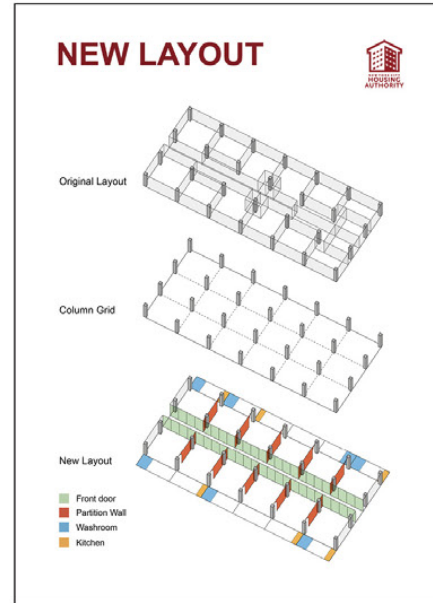
Dear Residents,

We hope that you all successfully found your group!

Since the domestic spaces are redistributed according to your requirement, we highly recommend you to have a discussion with your group, which allows you to state your need and make a better decision.

We know that this process might be a little bit difficult, but we hope that you can negotiate through the group meeting and get a relatively perfect result.

Best regards,
Community Center,
Manhattanville Houses



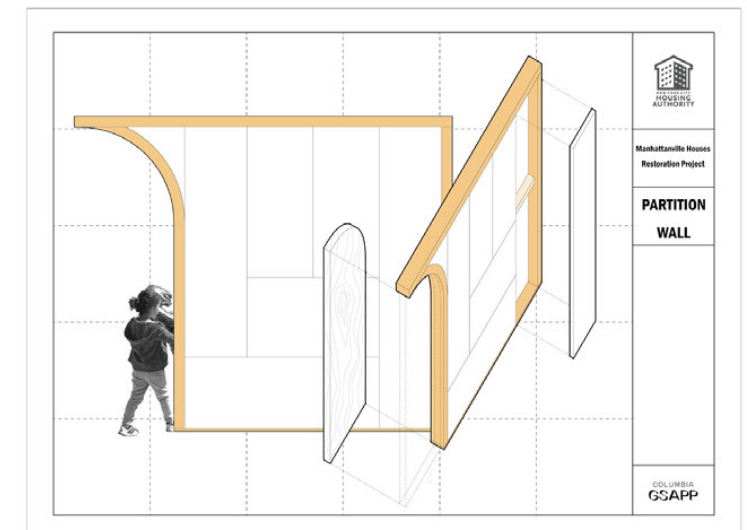
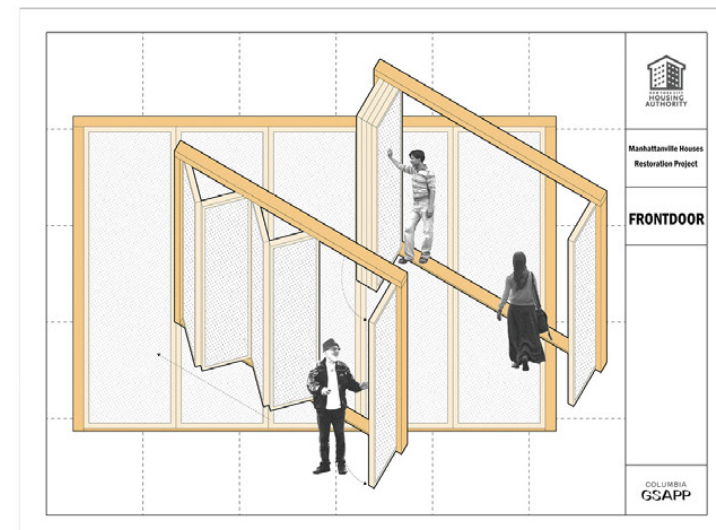
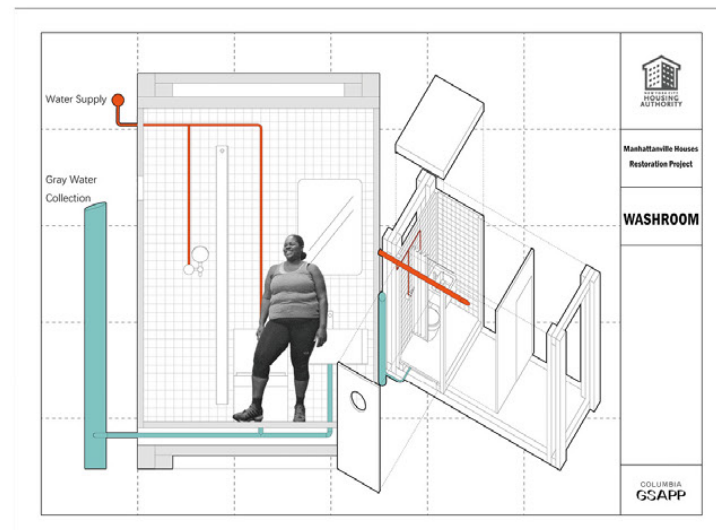
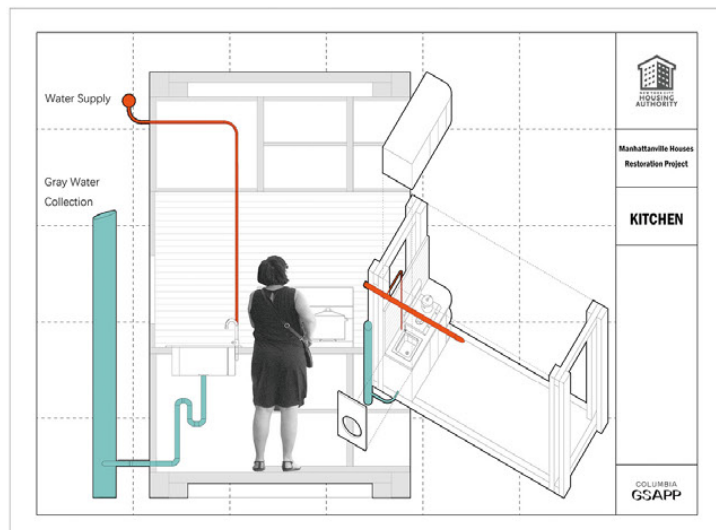
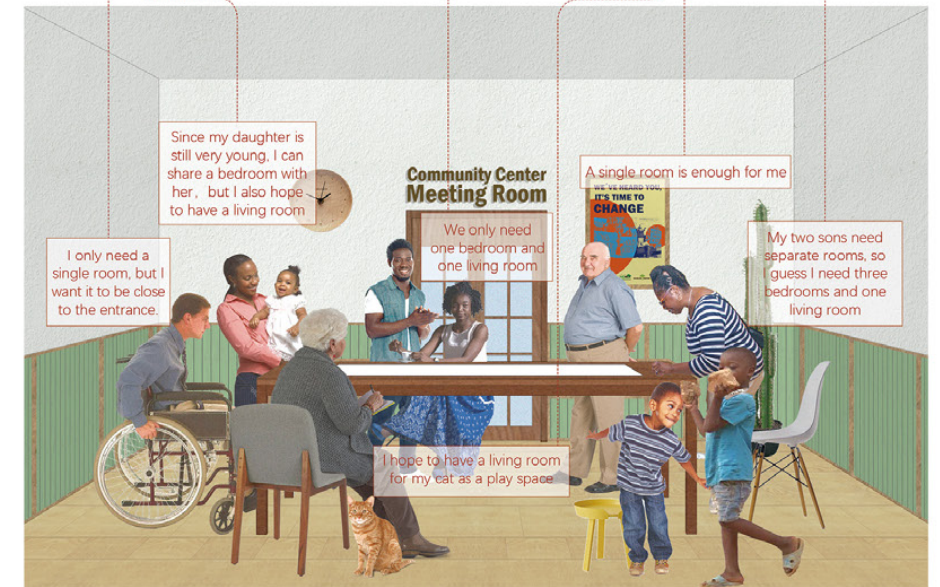
PARTICIPATING IN, OUR NEW FUTURE!

Domestic Space
 Communal Space

Locating your group **NOW** and Making decisions **TOGETHER!**

Building NO. __, Floor __, Group __.

Manhattanville Houses Community Center





Lead Healthy and Ambitious Lives



HARLEM GROWN
lead healthy and ambitious lives

Architects will work with Harlem Grown to transform open spaces, currently underutilized, Harlem Grown works to inspire youth to lead healthy and ambitious lives through mentorship and hands-on education in urban farming, sustainability, and nutrition. We would accompany our community to introduce the planting industry in the outdoor public space.

One of the many ways we fulfill our mission is by raising support for the physical renovation of abandoned lots in Harlem, transforming them into thriving urban farms. We would help the community to transform the public spaces into city farming including greenhouses, arrays of planting frames near the new community center, and planting lands distributed throughout the community.

Greenhouses
Grown throughout the year

HARLEM GROWN
lead healthy and ambitious lives

Glasshouse: foundation, steel structure, aluminum alloy structure

4100mm
7200mm
6600mm

Planting Frame
Plant crops in season

HARLEM GROWN
lead healthy and ambitious lives

Programs
With New Community Center

HARLEM GROWN
lead healthy and ambitious lives

SATURDAYS ON THE FARM
From May – October we are offering a series of workshops on our farms every Saturday (unless otherwise noted) from 12:30 pm – 3 pm. Children and parents are welcome to attend.

HARLEM GROWN SUMMER CAMP
Harlem Grown's Summer Camp is a seven-week program designed to engage and inspire children to explore the outdoors, become master farmers, taste and create delicious recipes, and lead healthier lives.

EDUCATIONAL FARM TOURS
Harlem Grown invites groups to experience a 1-hour immersive, hands-on farm tour open to schools and youth groups throughout New York City where participants learn about hydroponics, soil-based farming and composting.

Employment Opportunity
City Farm Related Work

HARLEM GROWN
lead healthy and ambitious lives

The construction of urban farms by Harlem Grown and the subsequent operation and maintenance of the farms provide some jobs for the community.

GREENHOUSES CONSTRUCTION

PLANTING FRAME CONSTRUCTION

Community Market
Weekly Community Event

HARLEM GROWN
lead healthy and ambitious lives

Community market is open to the public on every Saturday from 9 a.m. to 5 p.m. It is set temporarily on the Manhattanville playground, where residents can register to sell and get extra benefit from the crops they harvested besides eating them. People outside this community could also get healthy food from this market.
More information can be seen on our website:
<https://www.harlemgrown.org/community-events>

Fall Harvest Fair
Annual Community Event

HARLEM GROWN
lead healthy and ambitious lives

Harlem Grown has an annual event called Fall Harvest Fair with its local community to celebrate the end of growing season. This is the perfect opportunity to grab the last of our produce in outside planting areas. And we would like to invite citizens outside the community to come and celebrate the harvest with us. Through people's participation in picking, handling and enjoying crops, we hope to increase the openness of our community, and let the outside feel the whole community positive and energetic.
More information can be seen on our website:
<https://www.harlemgrown.org/community-events>

