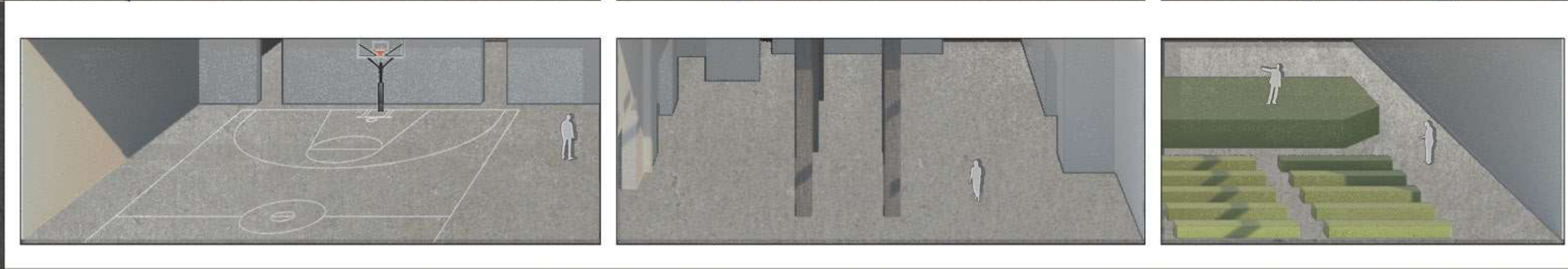


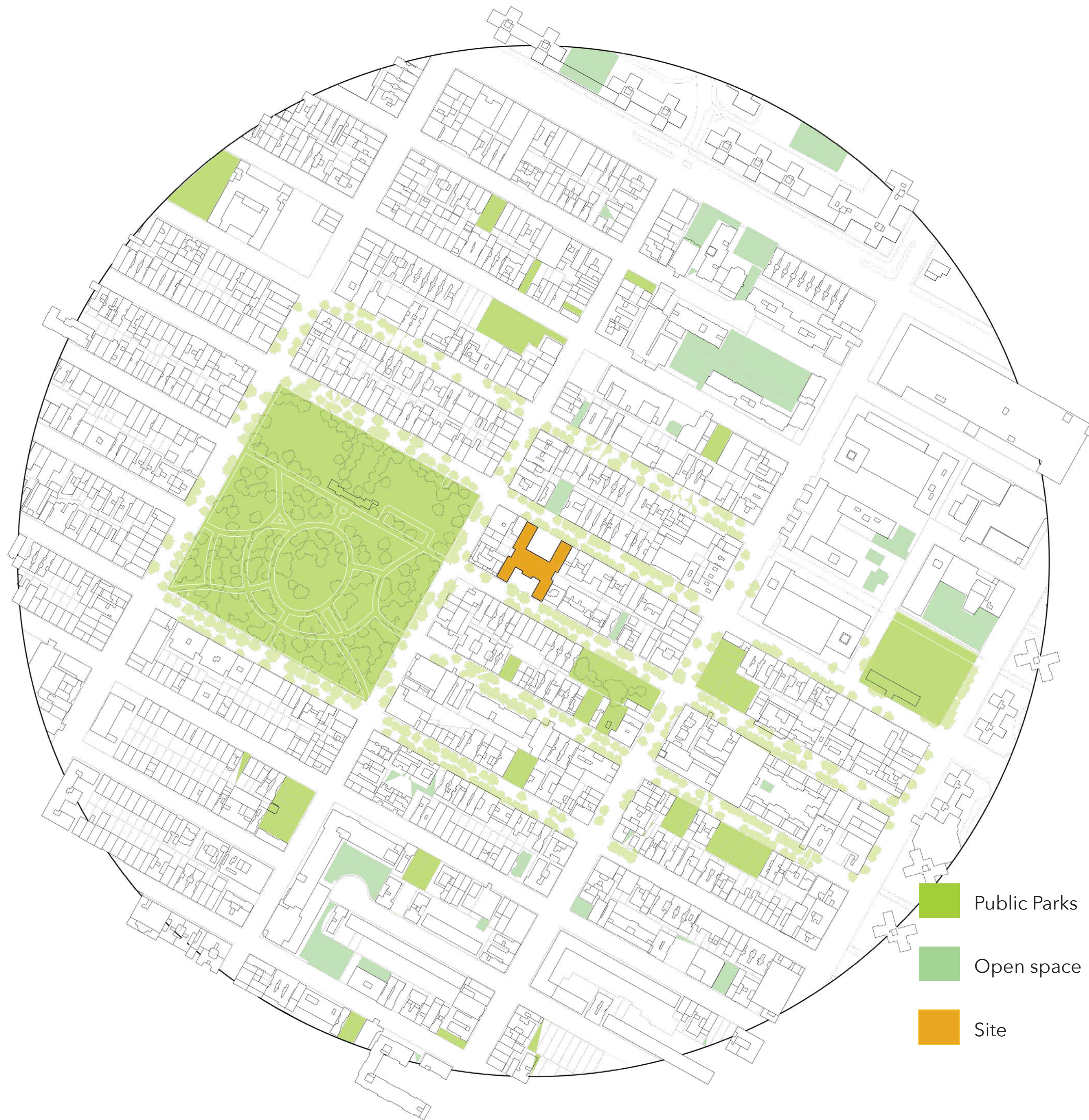


# Urban Forest

Jingyi Shao







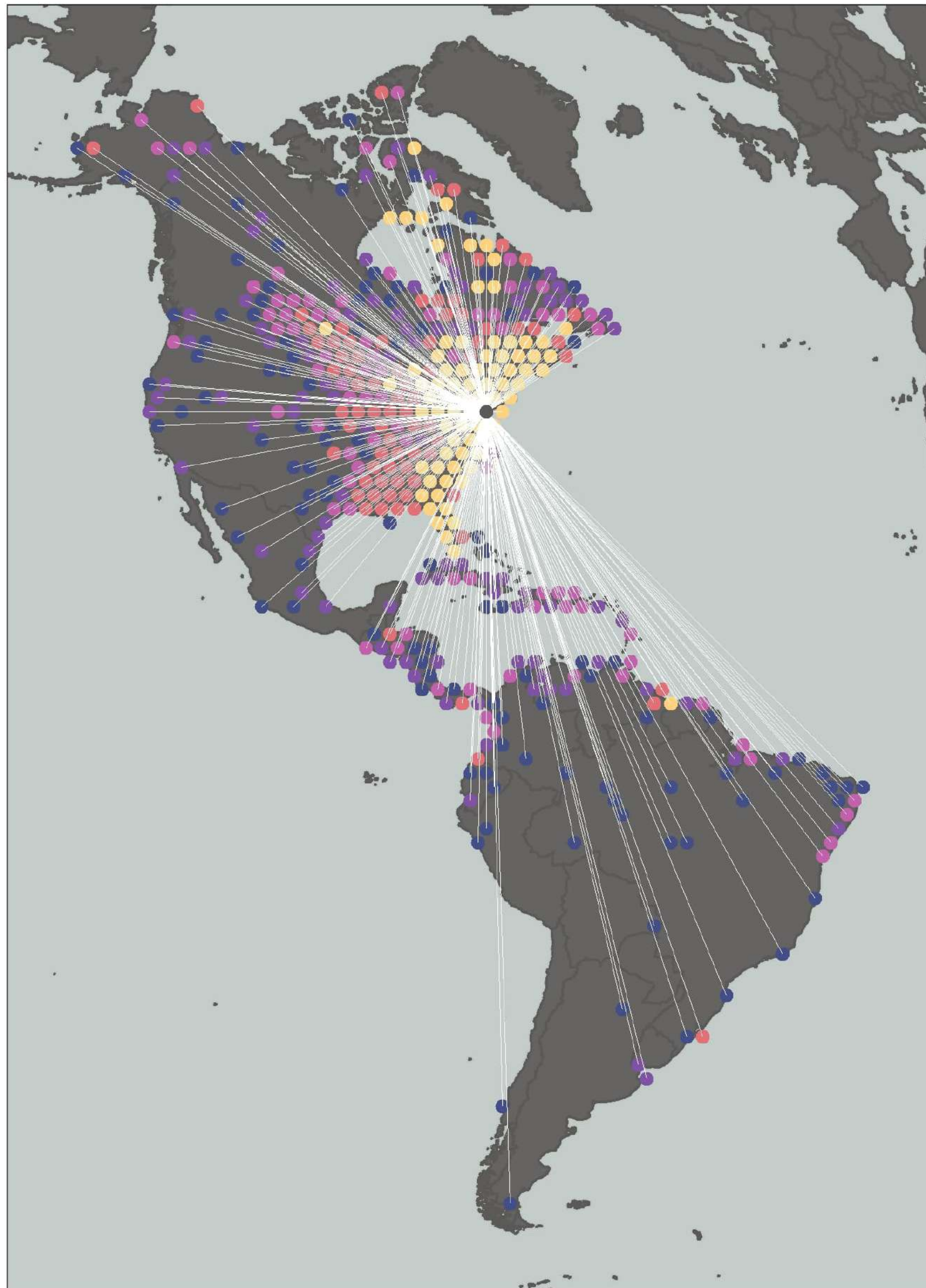
- Public Parks
- Open space
- Site





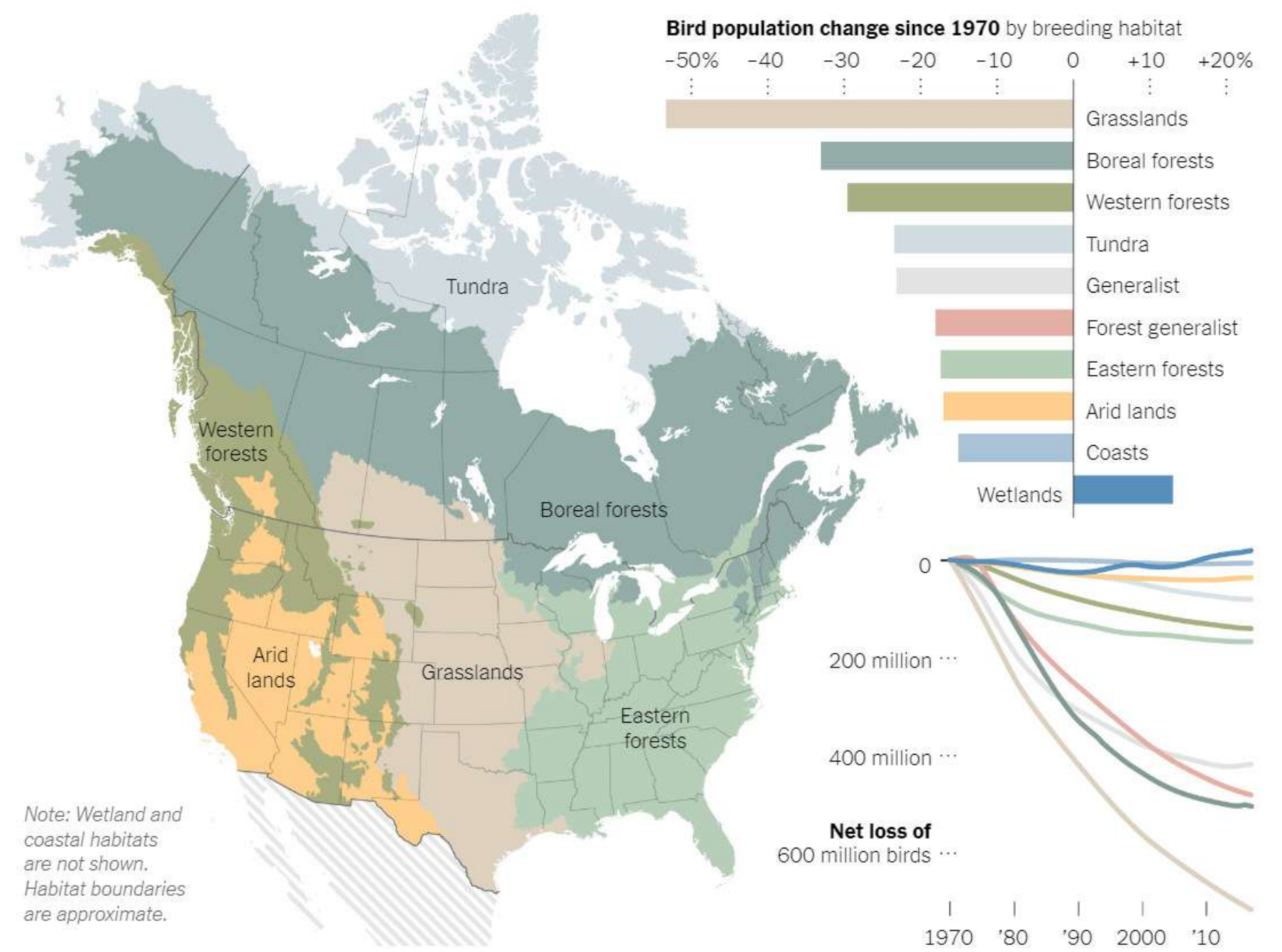


# Bird Connections from New York City



More birds     Fewer birds

Map created by the National Audubon Society, with data from the USGS Bird Banding Lab







Birds killed by glass collisions in Toronto. Photo by FLAP/Kenneth Hrdy





## *Birds*

- European Starling
- Monk Parakeet
- Red Tailed Hawk
- House Sparrow
- Rock Pigeon
- Laughing Gull
- American Kestrel
- Peregrine Falcon
- Eastern Screech Owl



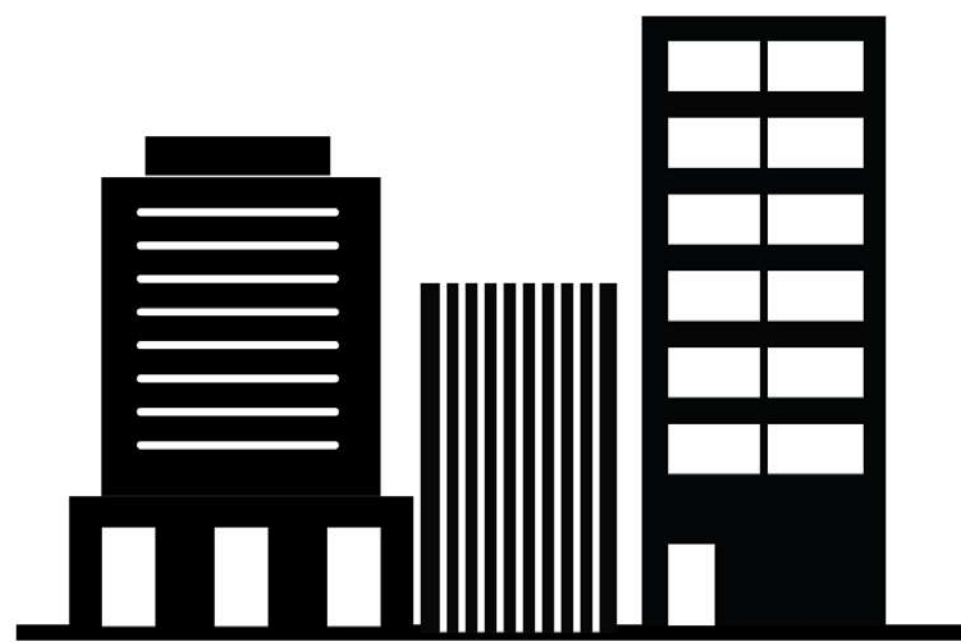
## *Plants*

- Purple Coneflowers
- Sunflowers
- Milkweed
- Cardinal Flower
- Trumpet Honeysuckle
- Virginia Creeper
- Buttonbush
- Elderberry
- Oak
- Dogwoods

## *Students*

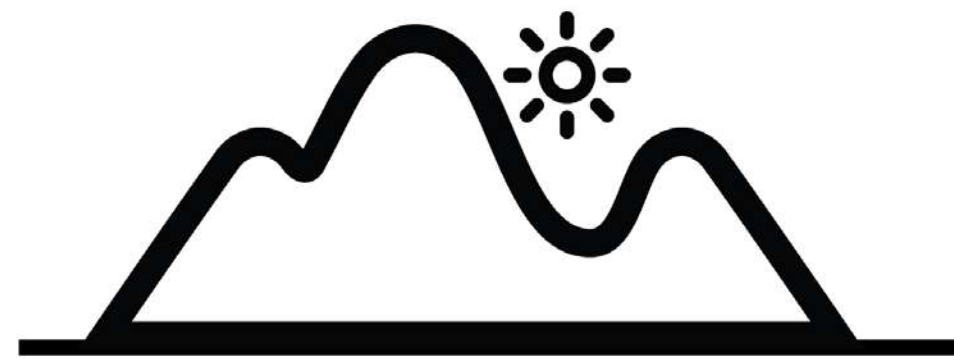
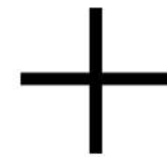
- Natural Environment
- Learn Focus, Patience, Cooperation and Responsibility
- Healthy Nutrition
- Learn Food Production Process





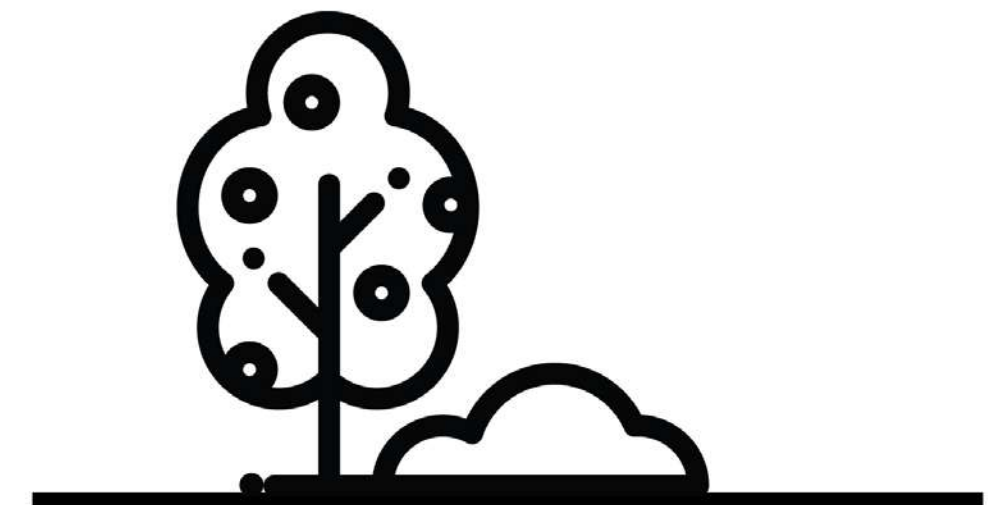
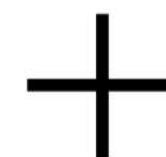
**Urban city**

The school itself is located in the center of a metropolitan city with a urban setting



**Mountain forest**

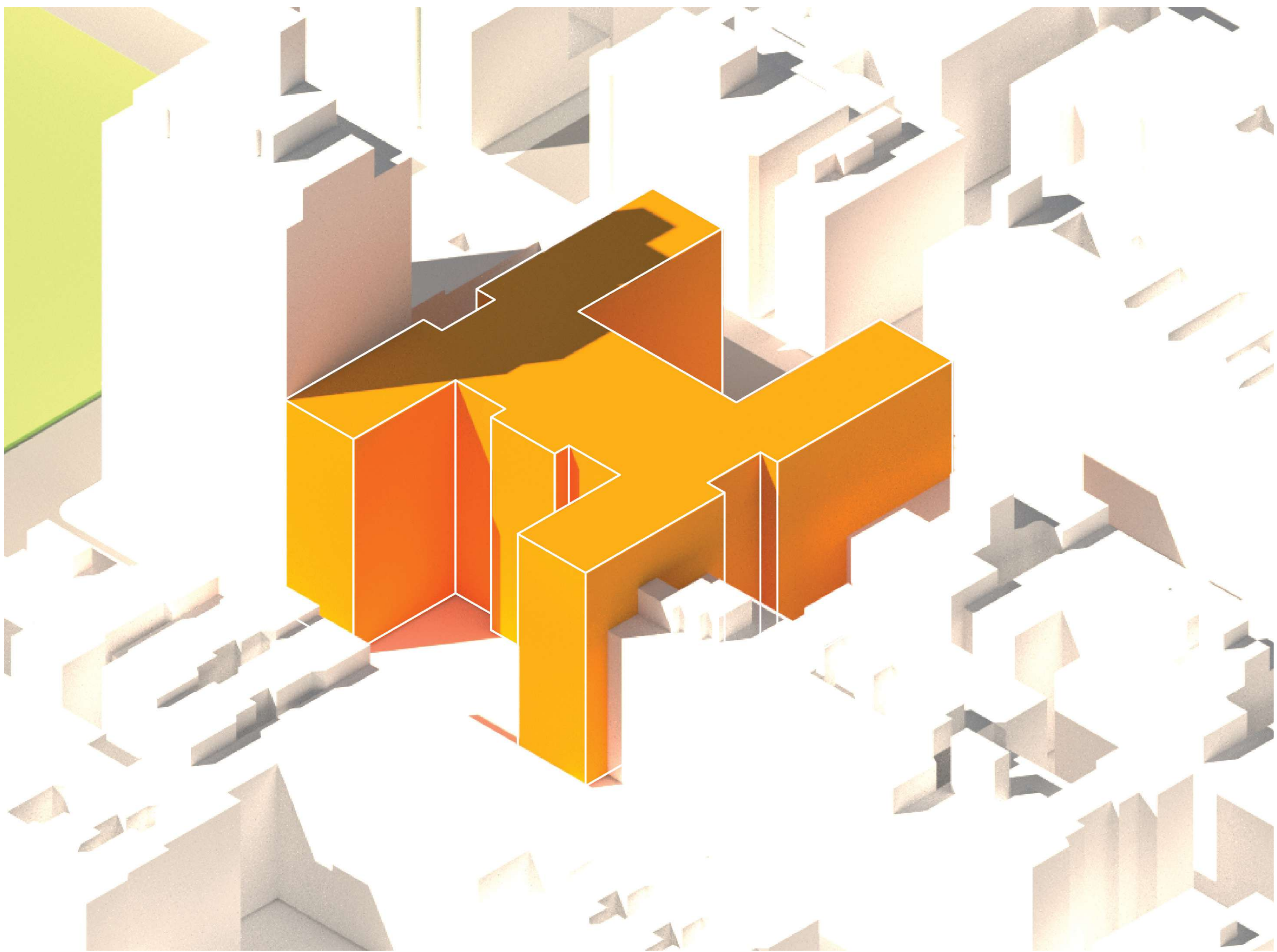
Birds enjoy the natural environment and some birds prefer variety of landscapes such as mountains and forests which is unavailable in East Village



**Sustainability**

The XR school is a response to avoid tipping points in the climate system, biodiversity loss, and the risk of social and ecological collapse.

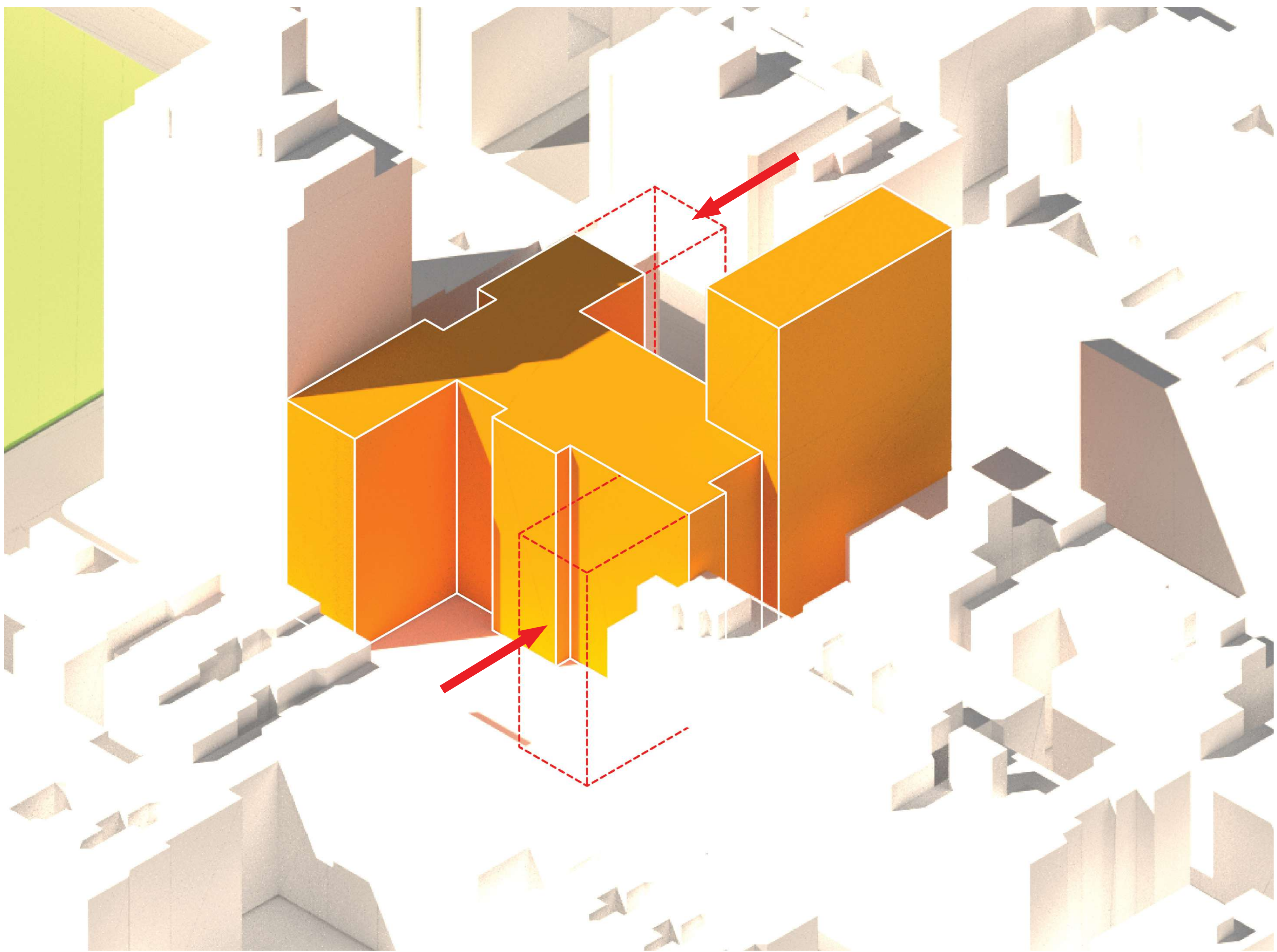




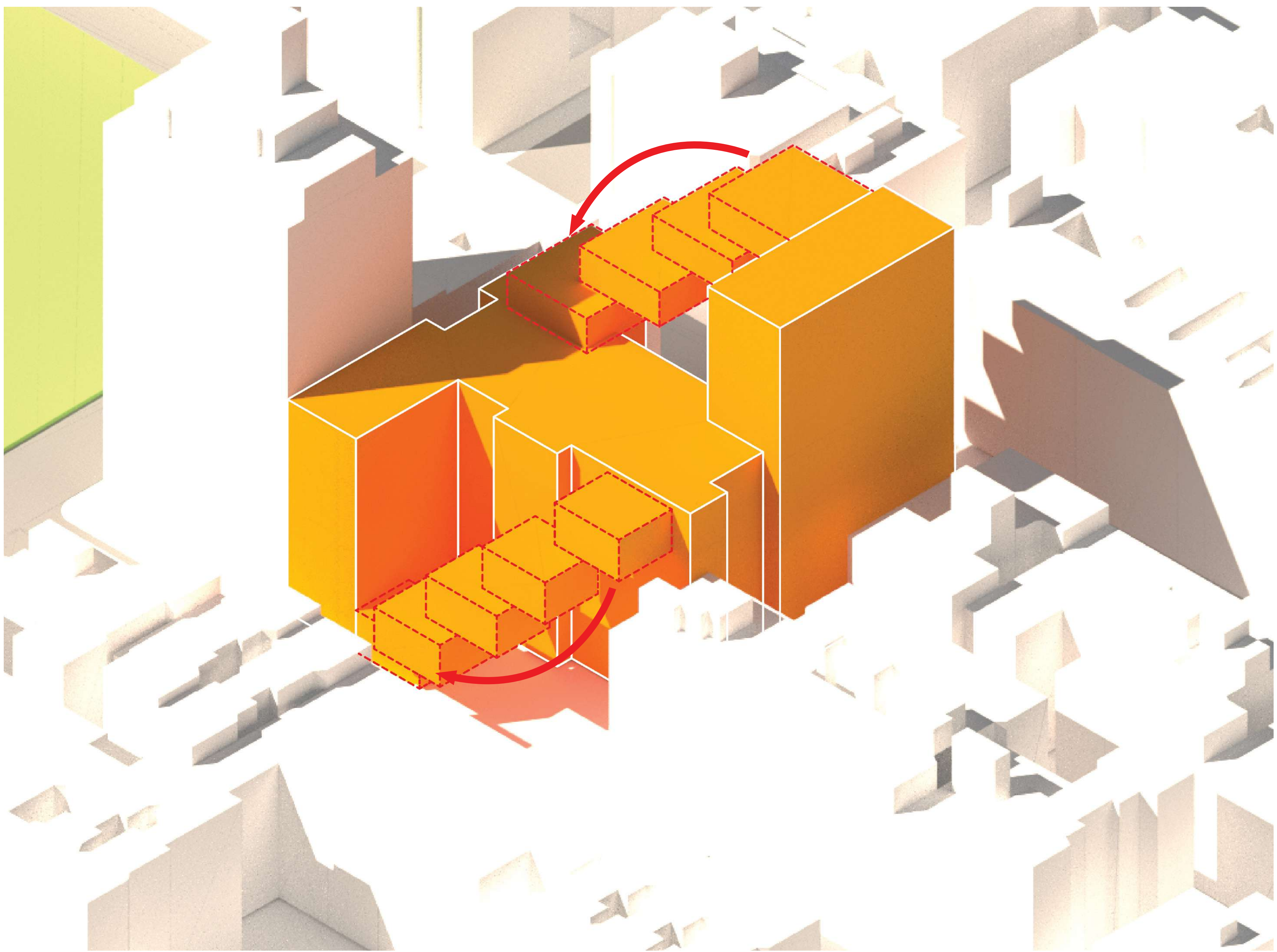




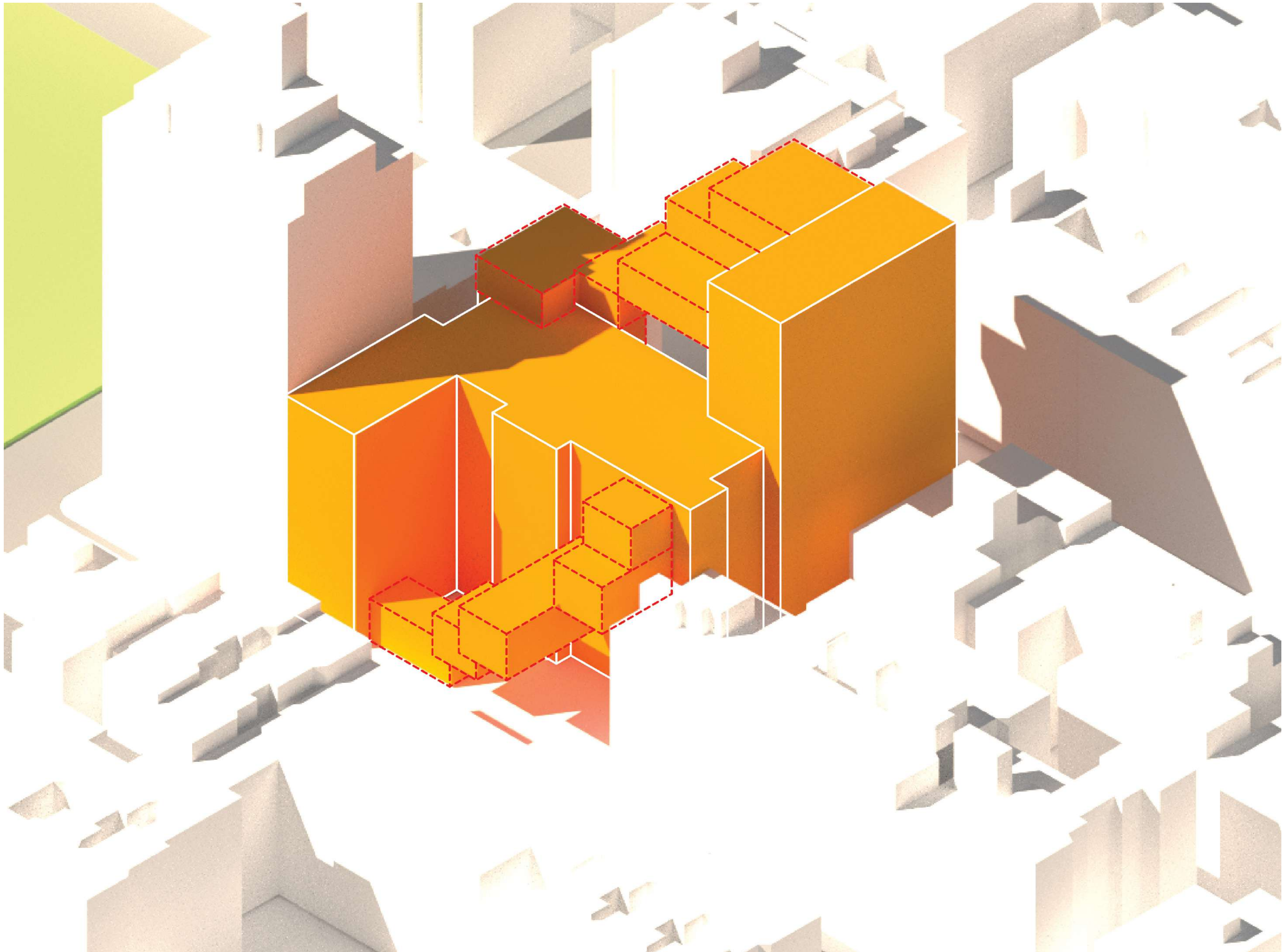






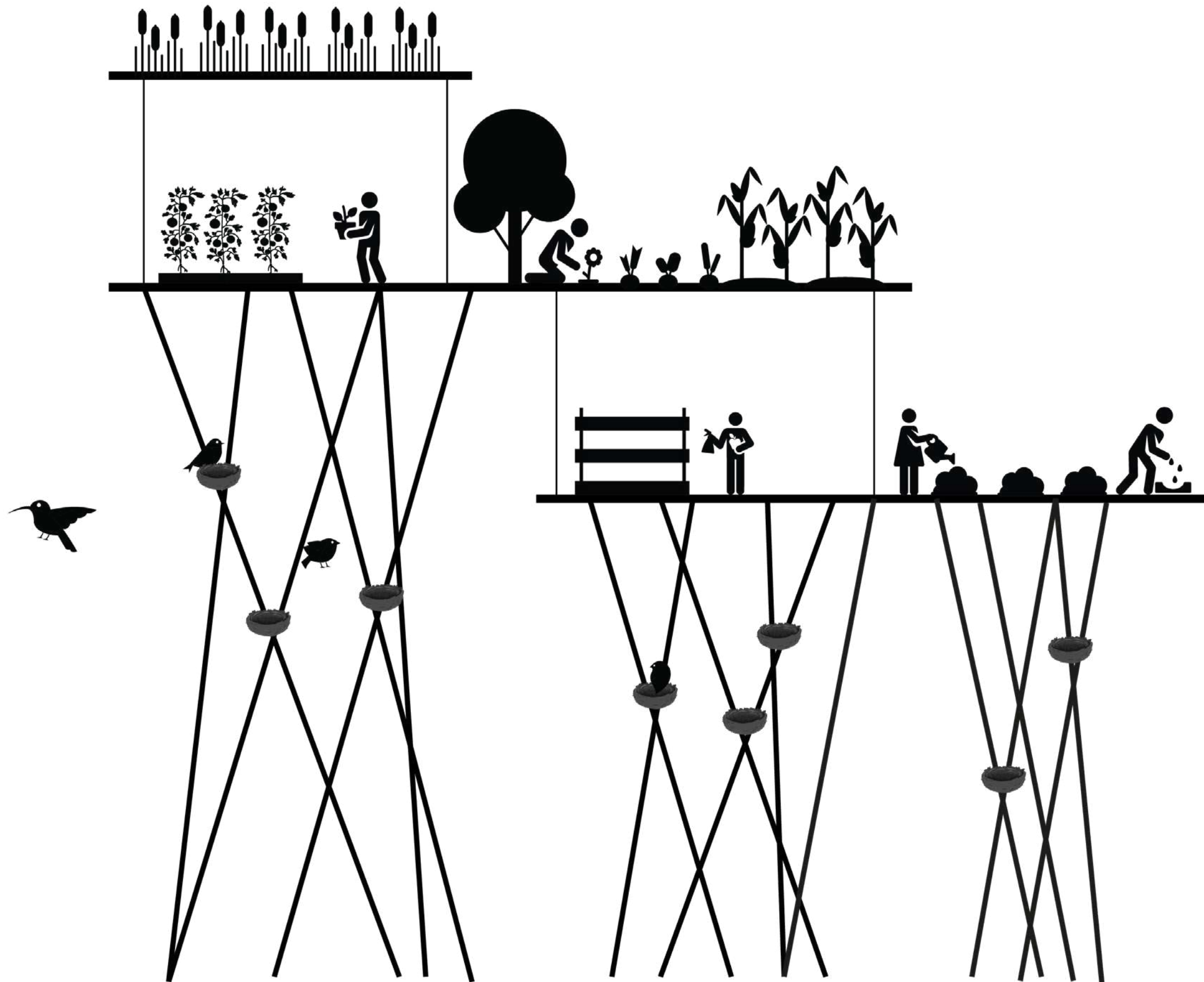








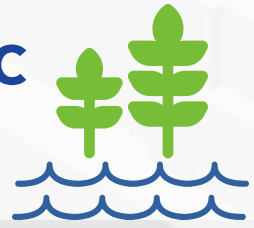
**Student interact with natural environment**



**Birds inhabit the artificial forest**



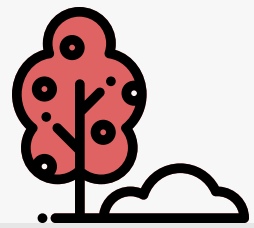
Hydroponic Farm



Peregrine Falcons



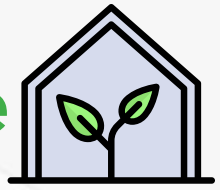
Outdoor Garden



American Robin



Greenhouse



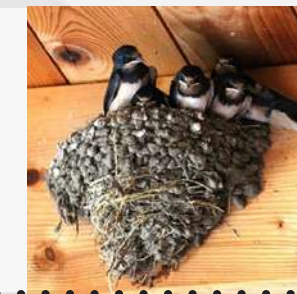
Loggerhead Shrike



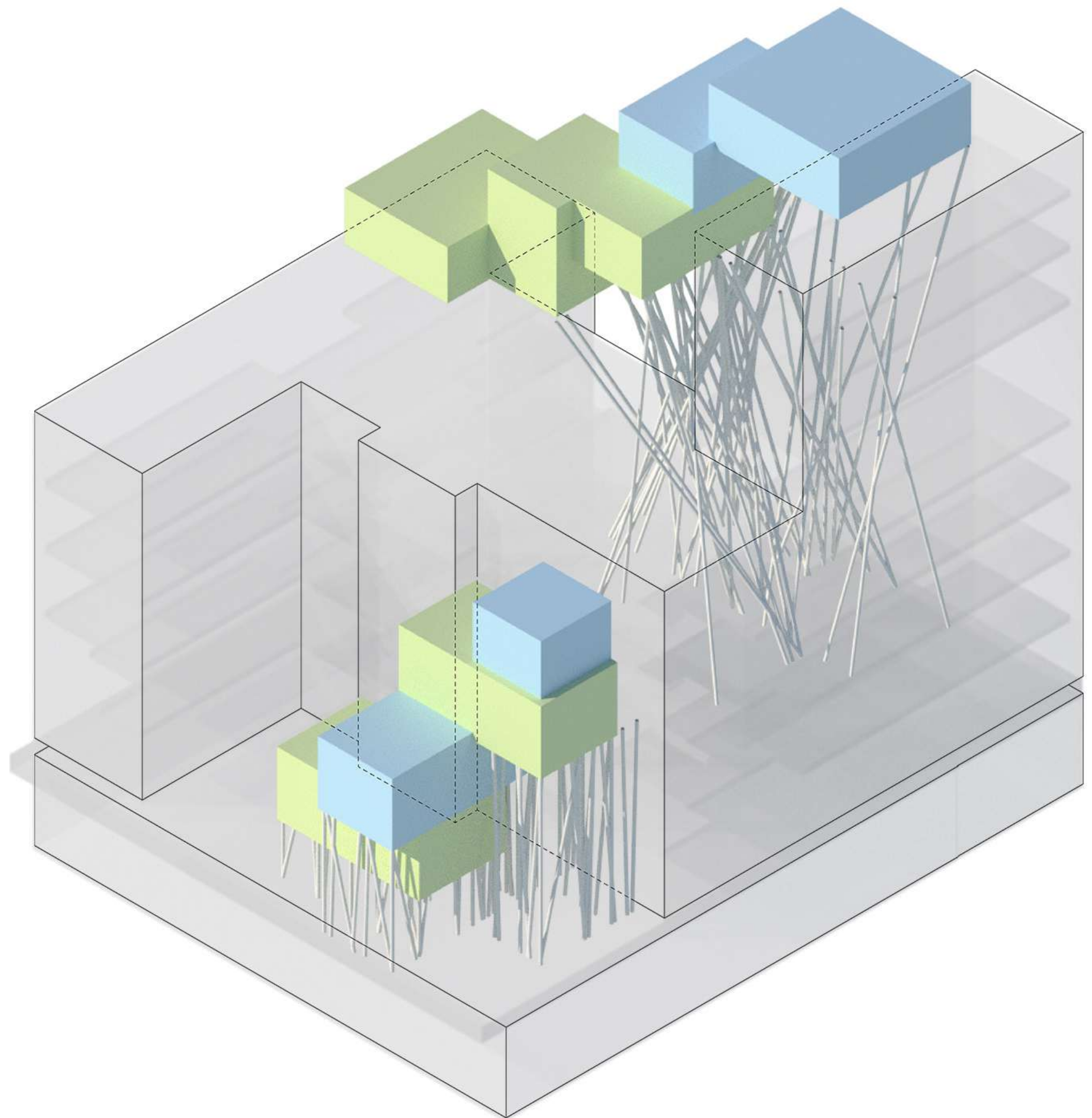
Nesting Space



Barn Swallow

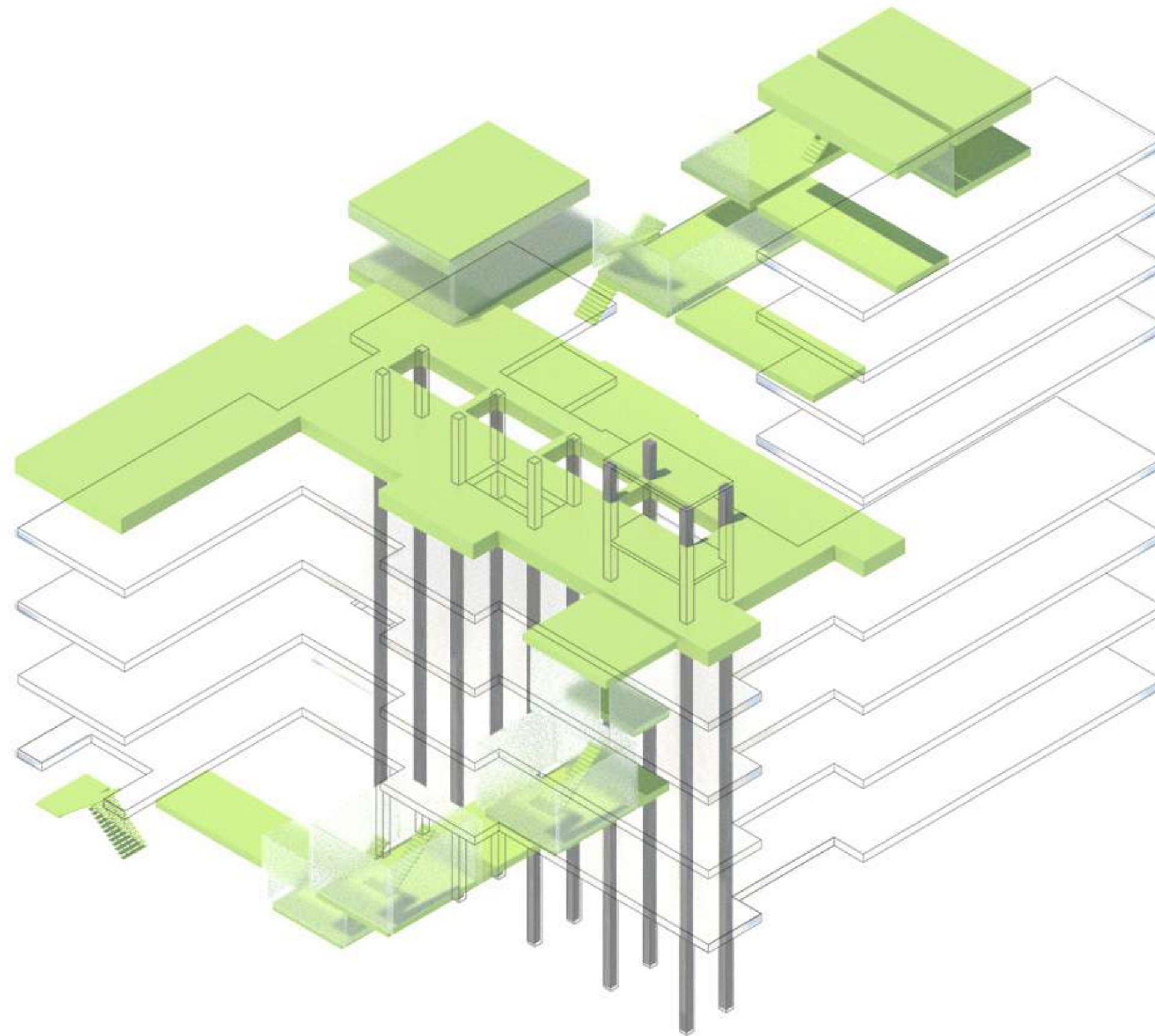






- Hydroponic Farm
- Greenhouse

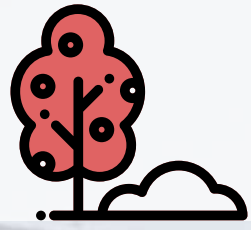




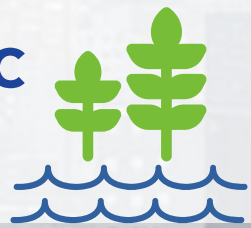
**Public Circulation**



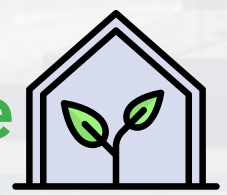
Outdoor  
Garden



Hydroponic  
Farm



Greenhouse



Nesting  
Space





Spring

Summer

Fall

Winter

Hydroponic Farm



Micro Arugula Greens



Bean Sprout



Lemon Basil



Micro Cilantro

Greenhouse



Tomatos



Kale



Lettuce



Peppers



Pea



Potato



Spinach

Outdoor Garden



Strawberry



Raspberry



Peach



Apple



Cauliflower







**Peregrine Falcons**



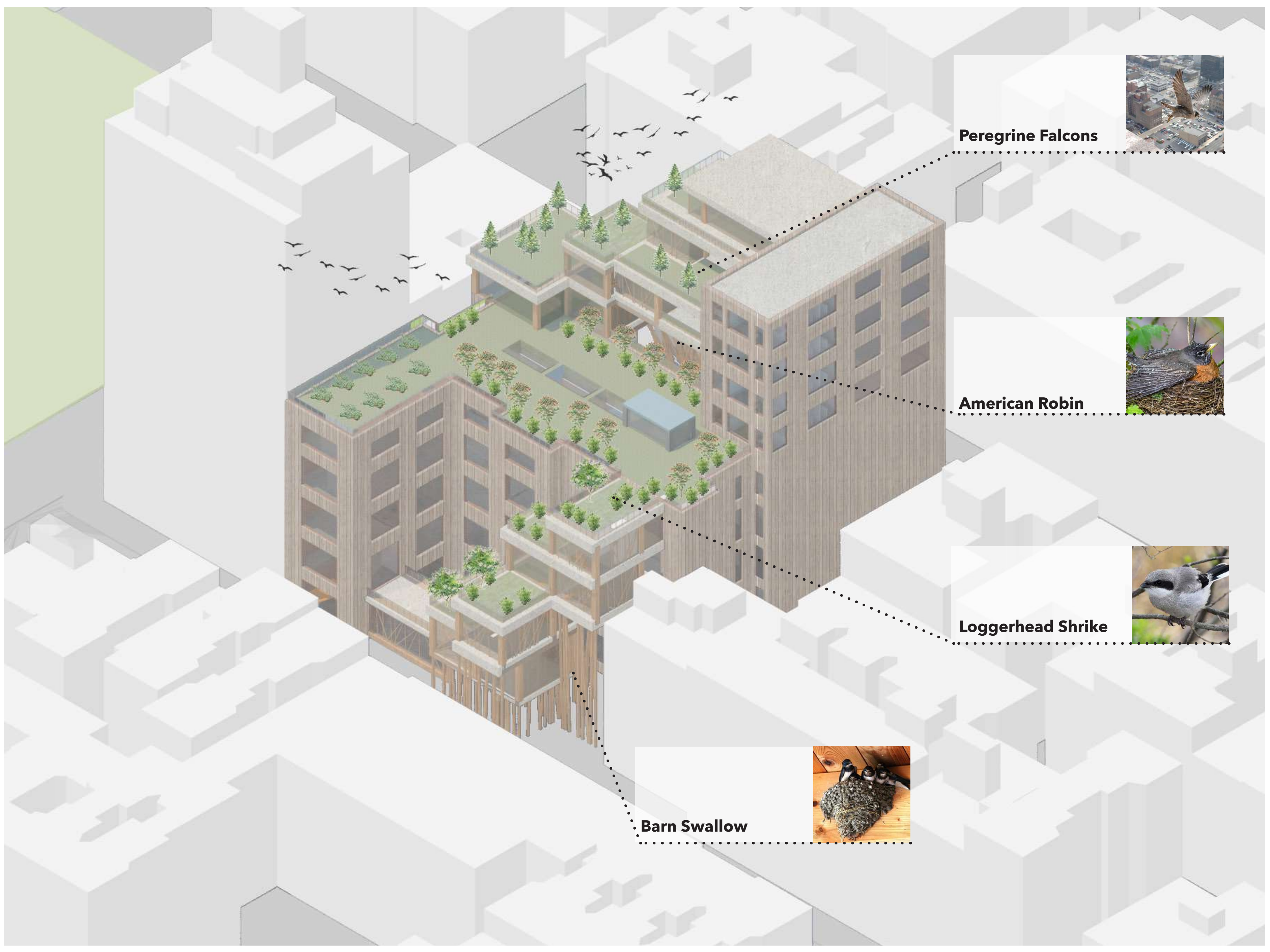
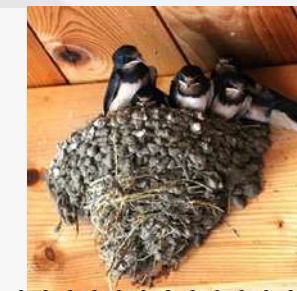
**American Robin**



**Loggerhead Shrike**



**Barn Swallow**







## Barn Swallow

The preferred habitat of the **barn swallow** is open country with low vegetation, such as pasture, meadows and farmland, preferably with nearby water. This swallow avoids heavily wooded or precipitous areas and densely built-up locations.





## American Robin

The **American robin**'s breeding habitat is woodland and more open farmland and urban areas. It becomes less common as a breeder in the southernmost part of the Deep South of the United States, and there prefers large shade trees on lawns. Its winter habitat is similar but includes more open areas.





## Loggerhead Shrike

**Loggerhead Shrike** often lives in open country with scattered shrubs and trees is the typical habitat of Loggerhead Shrike, but the species can also be found in more heavily wooded habitats with large openings and in very short habitats with few or no trees.

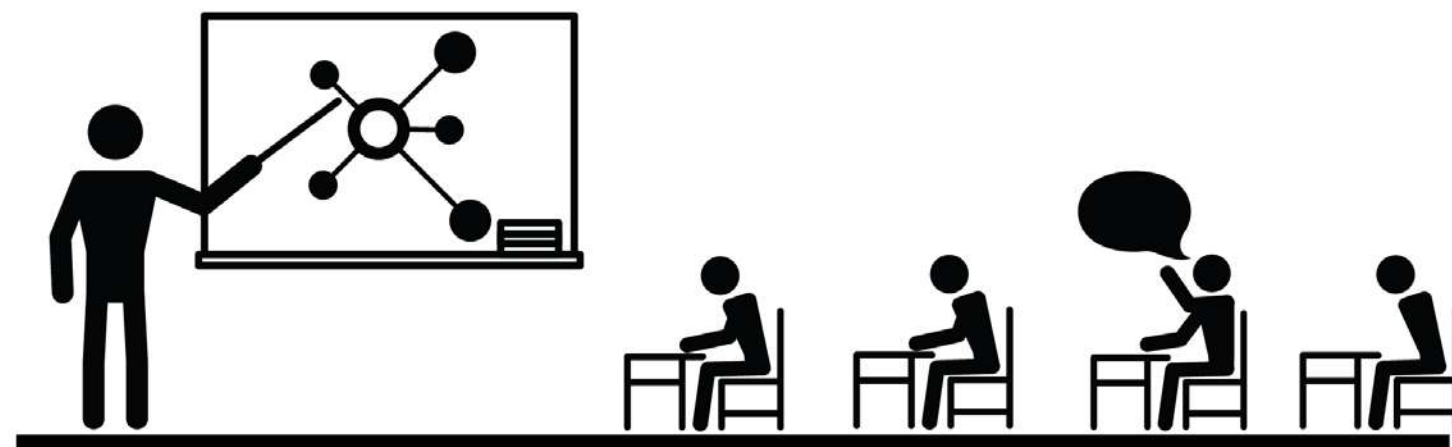




## Peregrine falcons

The **peregrine falcon** nests in a scrape, normally on cliff edges. The female chooses a nest site, where she scrapes a shallow hollow in the loose soil, sand, gravel, or dead vegetation in which to lay eggs. No nest materials are added. Cliff nests are generally located under an overhang, on ledges with vegetation.





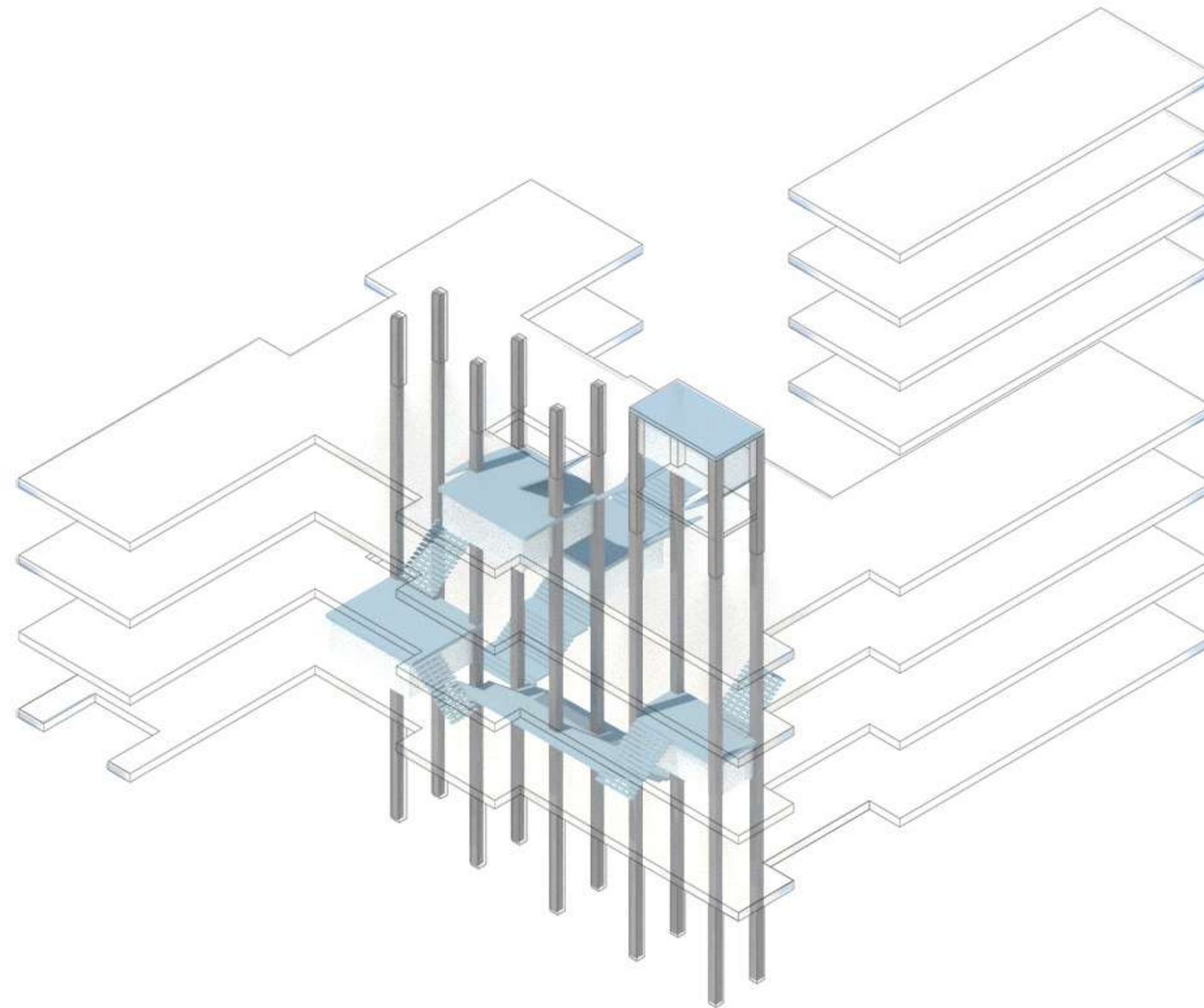
**Single point information source**



**Learning through making and collaboration**

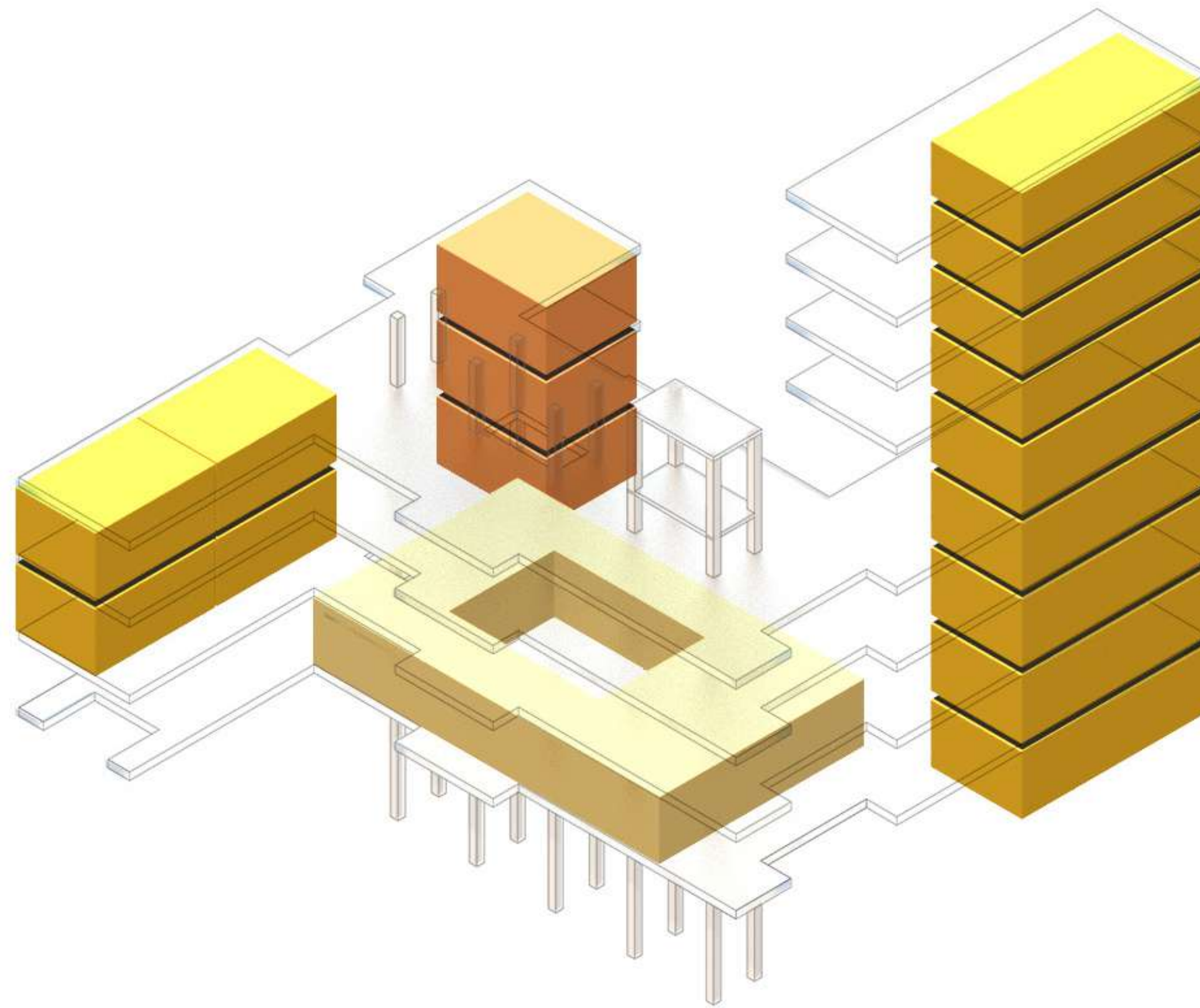
The school challenges the established traditional education system and learning experience. It encourages the way of learning through making and embrace the classroom as a new ecosystem where the students actually engage with the natural ecosystem








**Student Circulation**

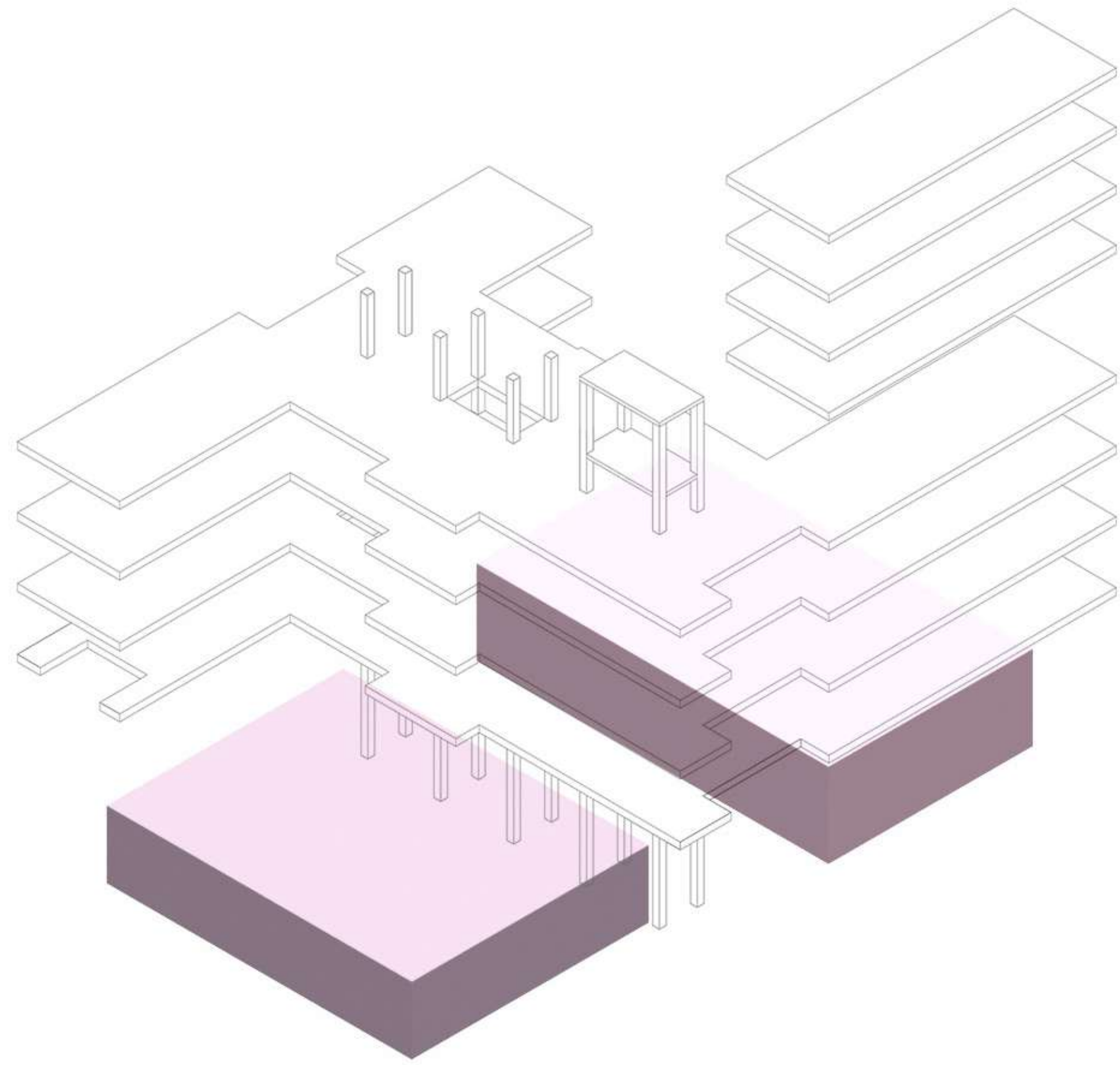




## Study Spaces

-  Studios
-  Science Lab
-  Classroom



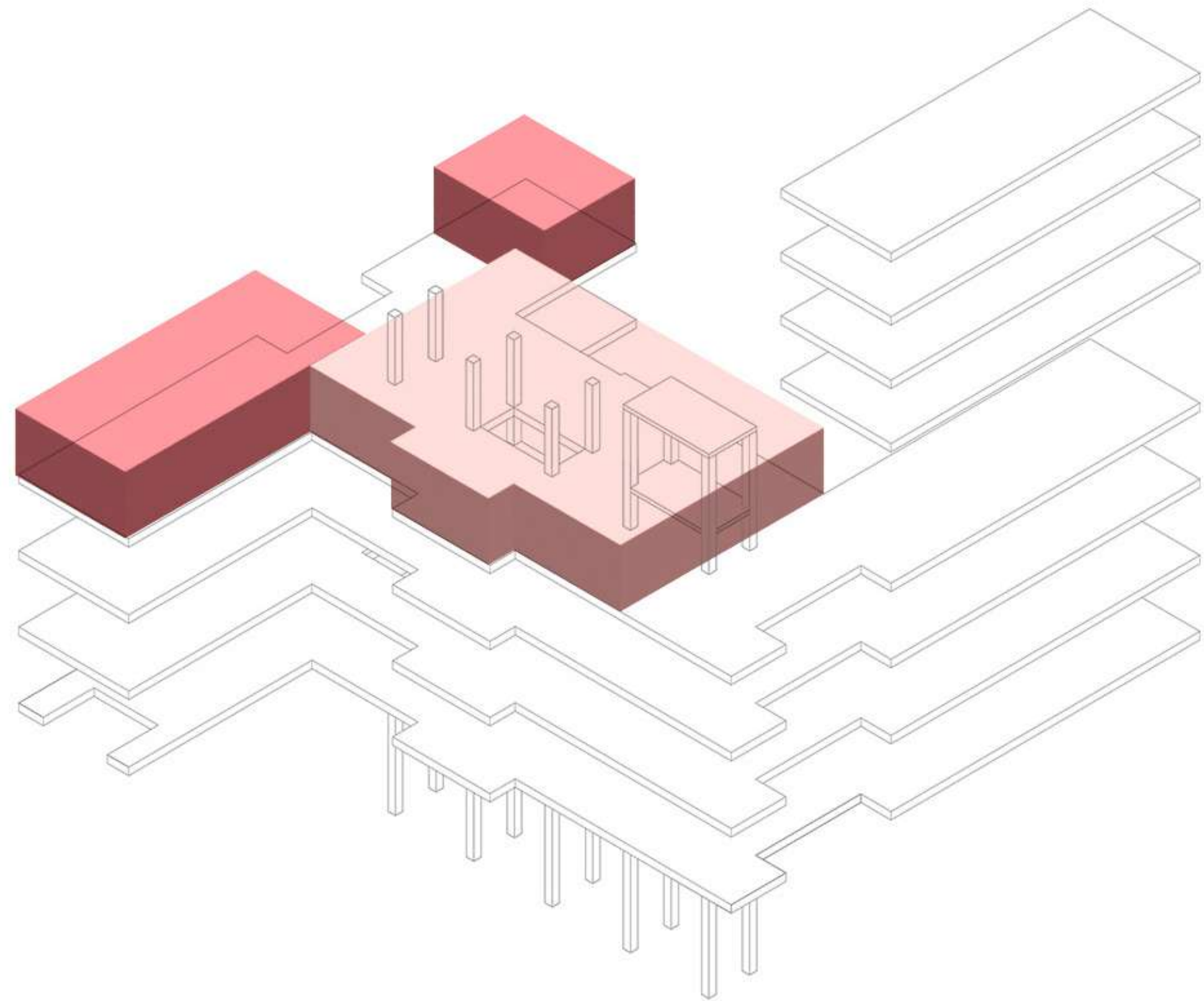


## Shared Spaces

 Auditorium

 Gymnasium



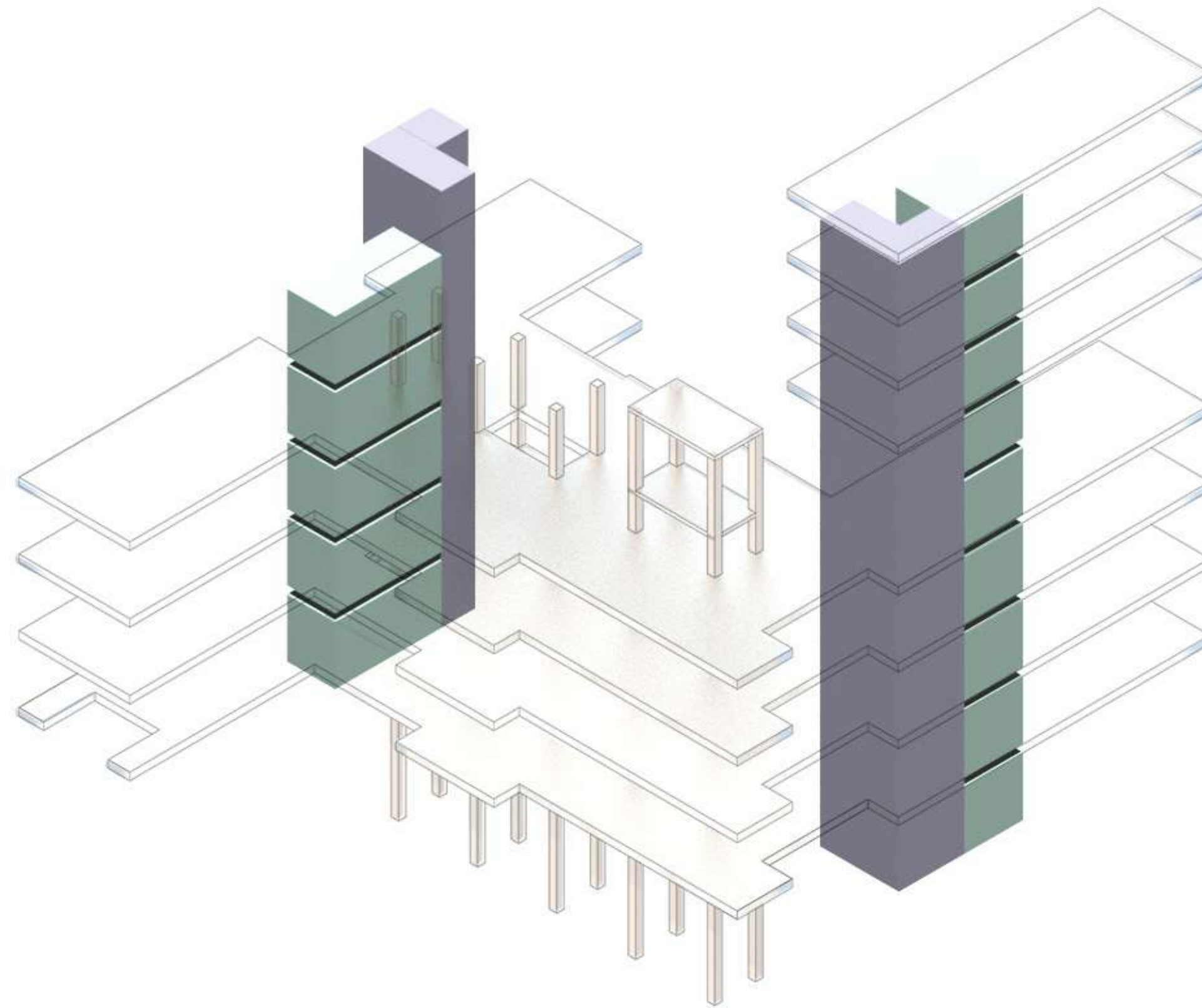


## Service

 Dining Area

 Kitchen



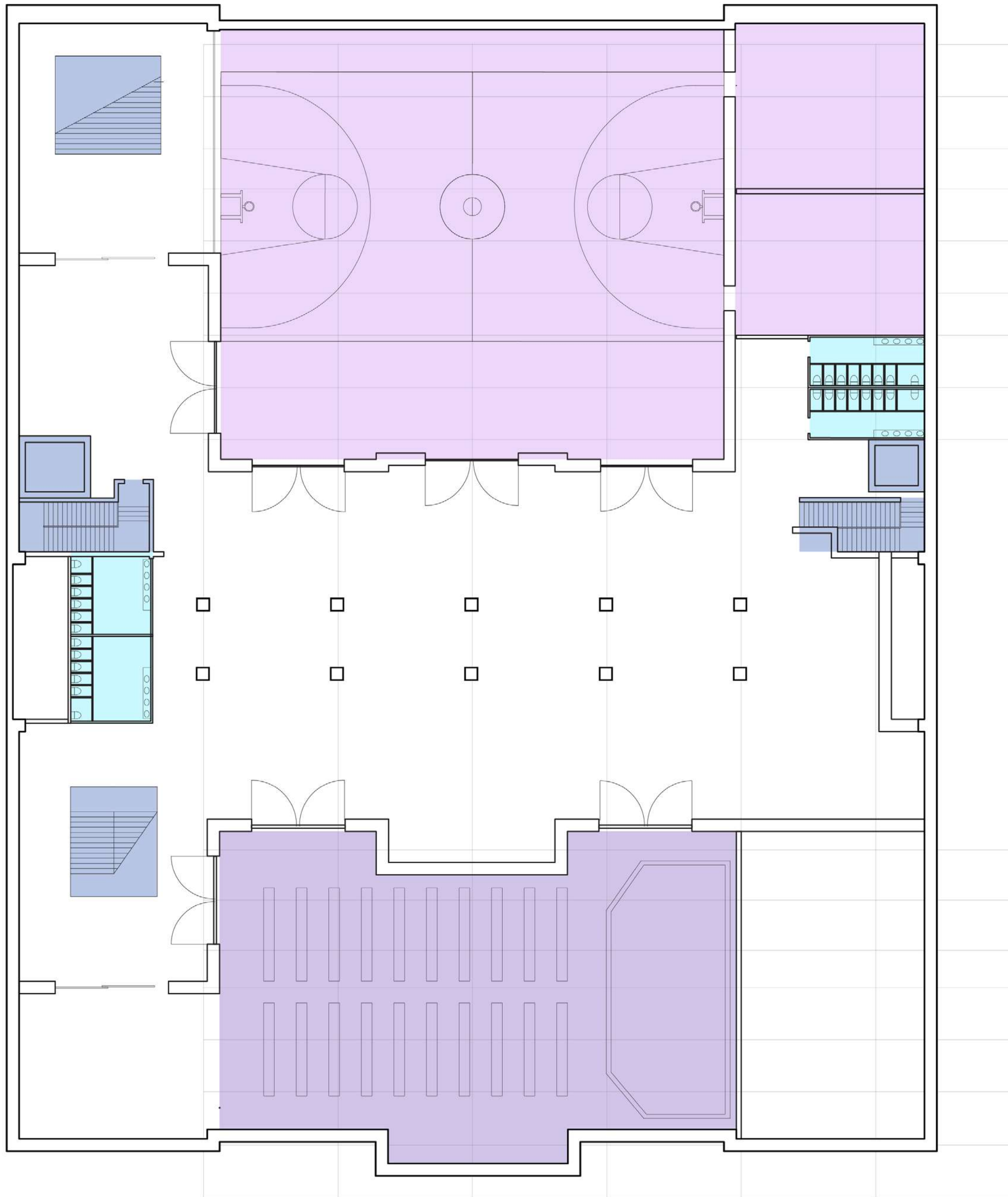


## Core Circulation

 Staircase/ elevator

 Restroom





## Basement

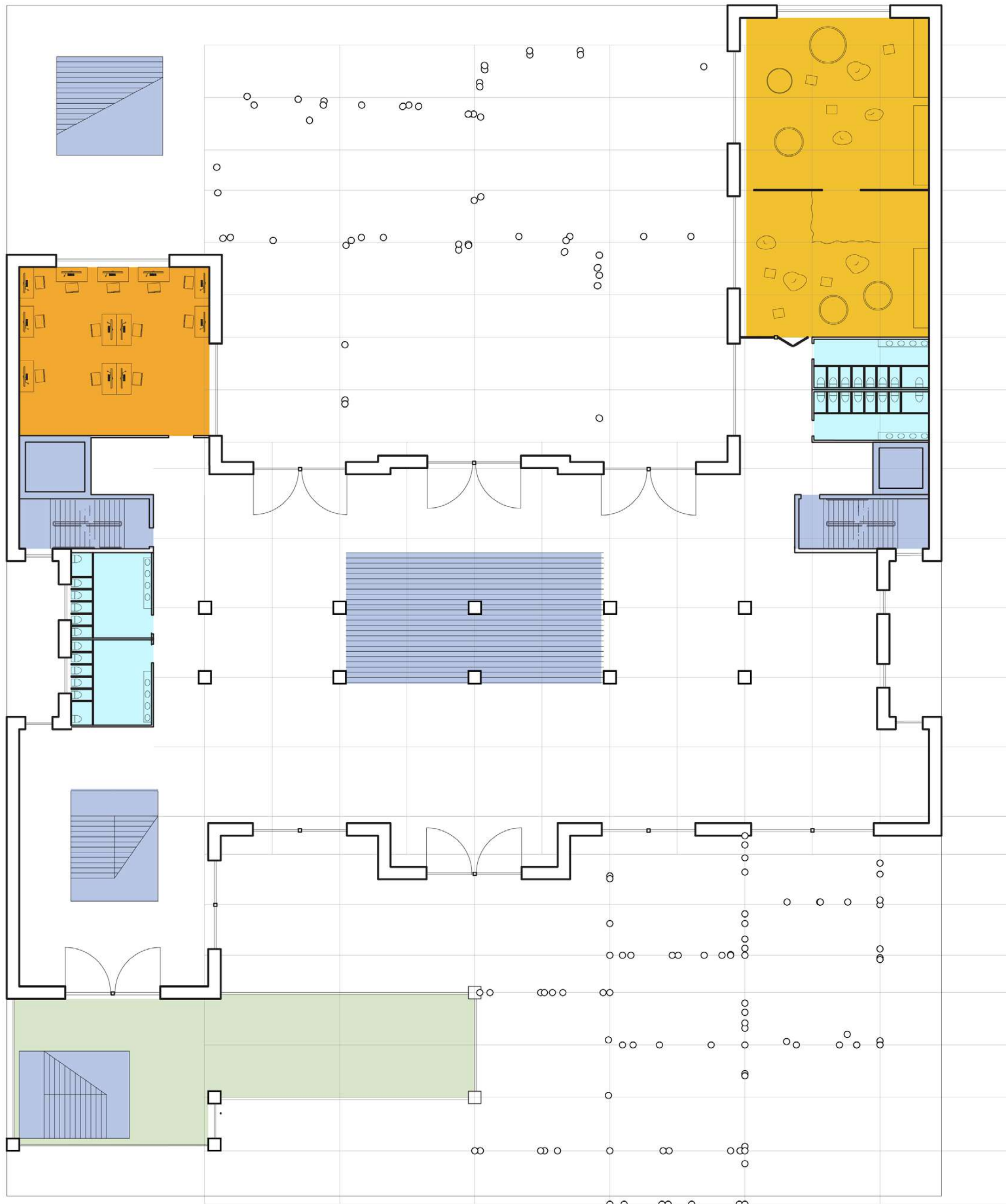
 Auditorium

 Gymnasium

 Staircase/ elevator

 Restroom

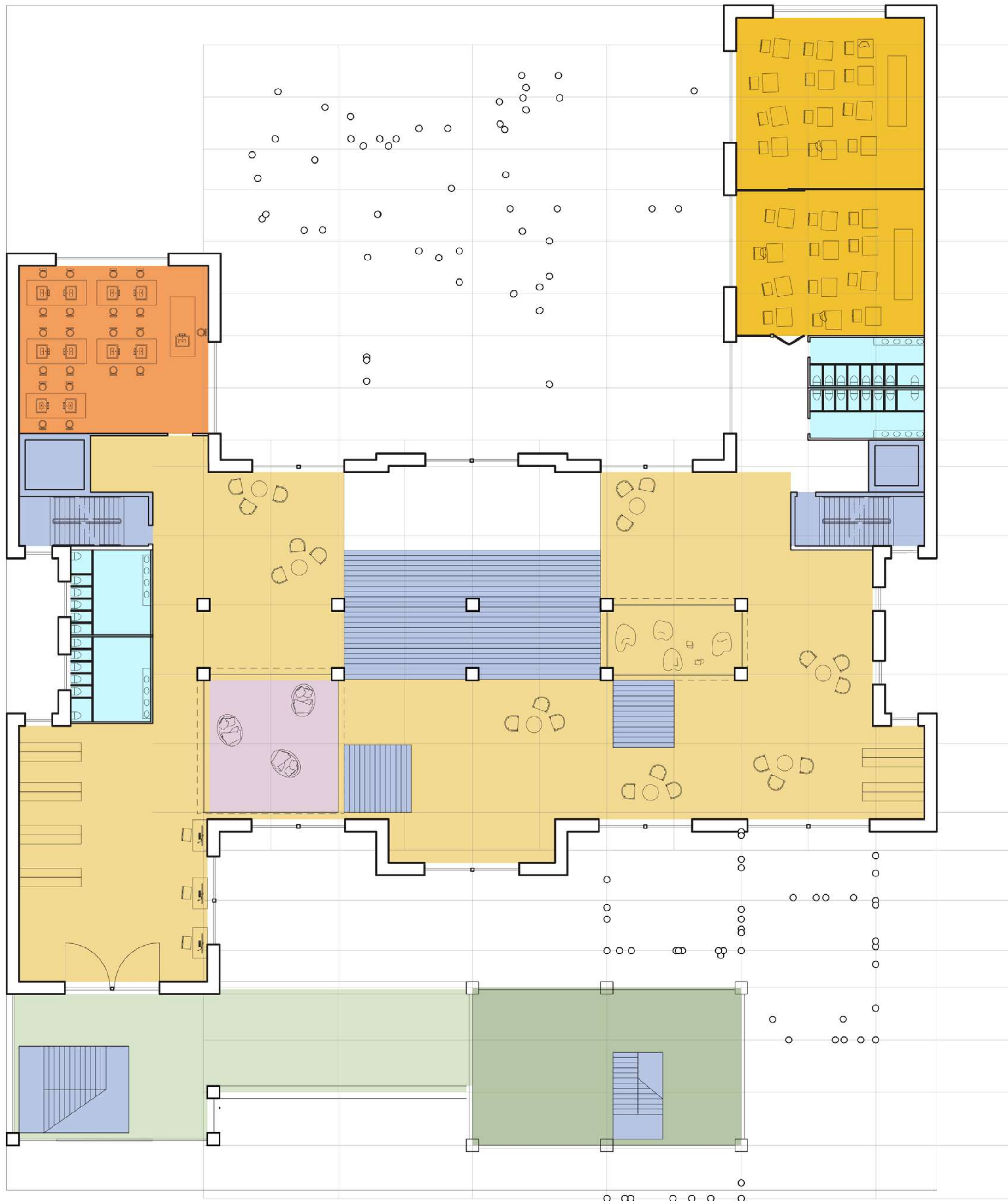




## 1st Floor

- Pathway
- Classroom
- Restroom
- Staircase/ elevator

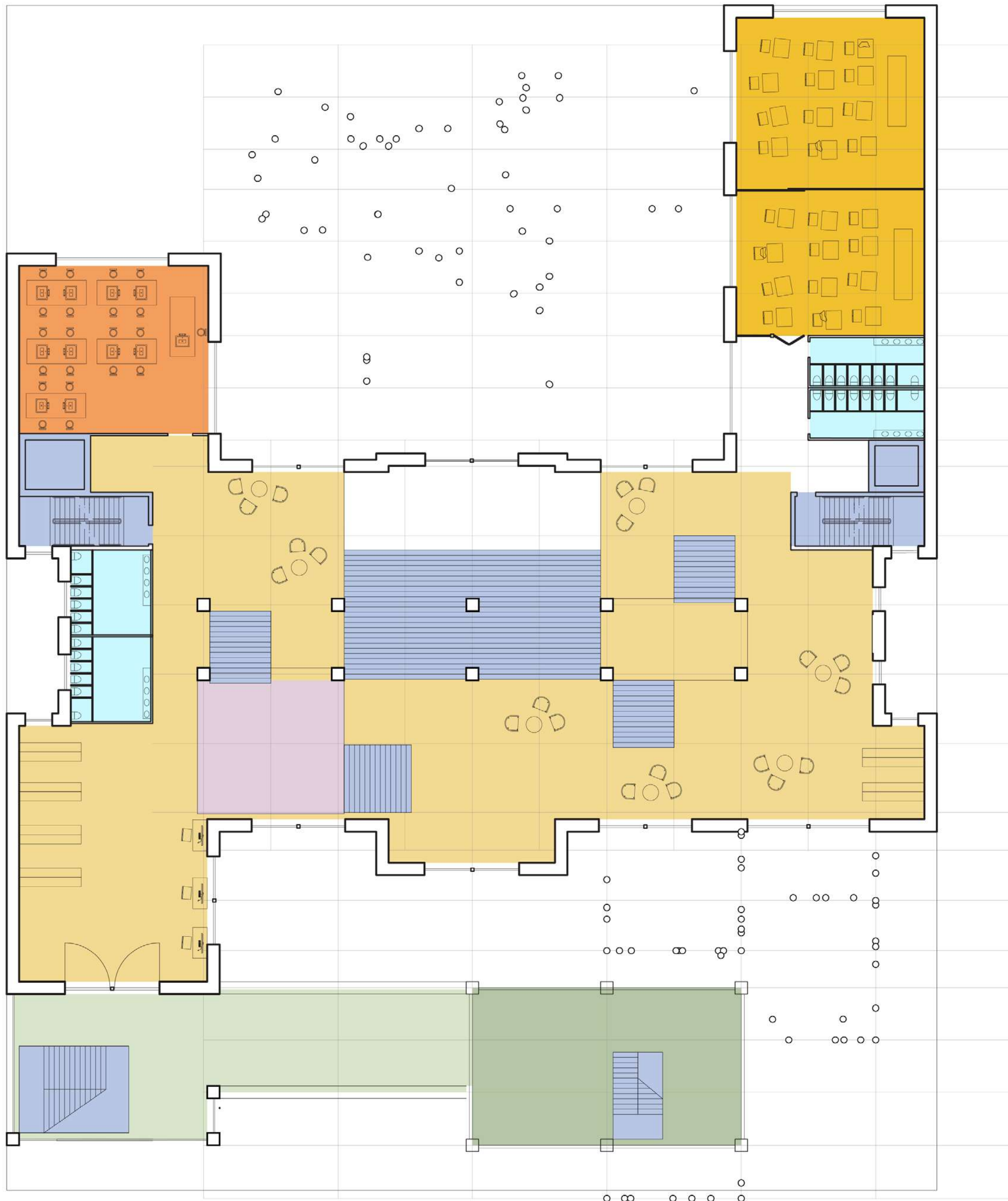




## 2nd Floor

- Resting Area
- Pathway
- Greenhouse
- Library
- Classroom
- Restroom
- Staircase/ elevator

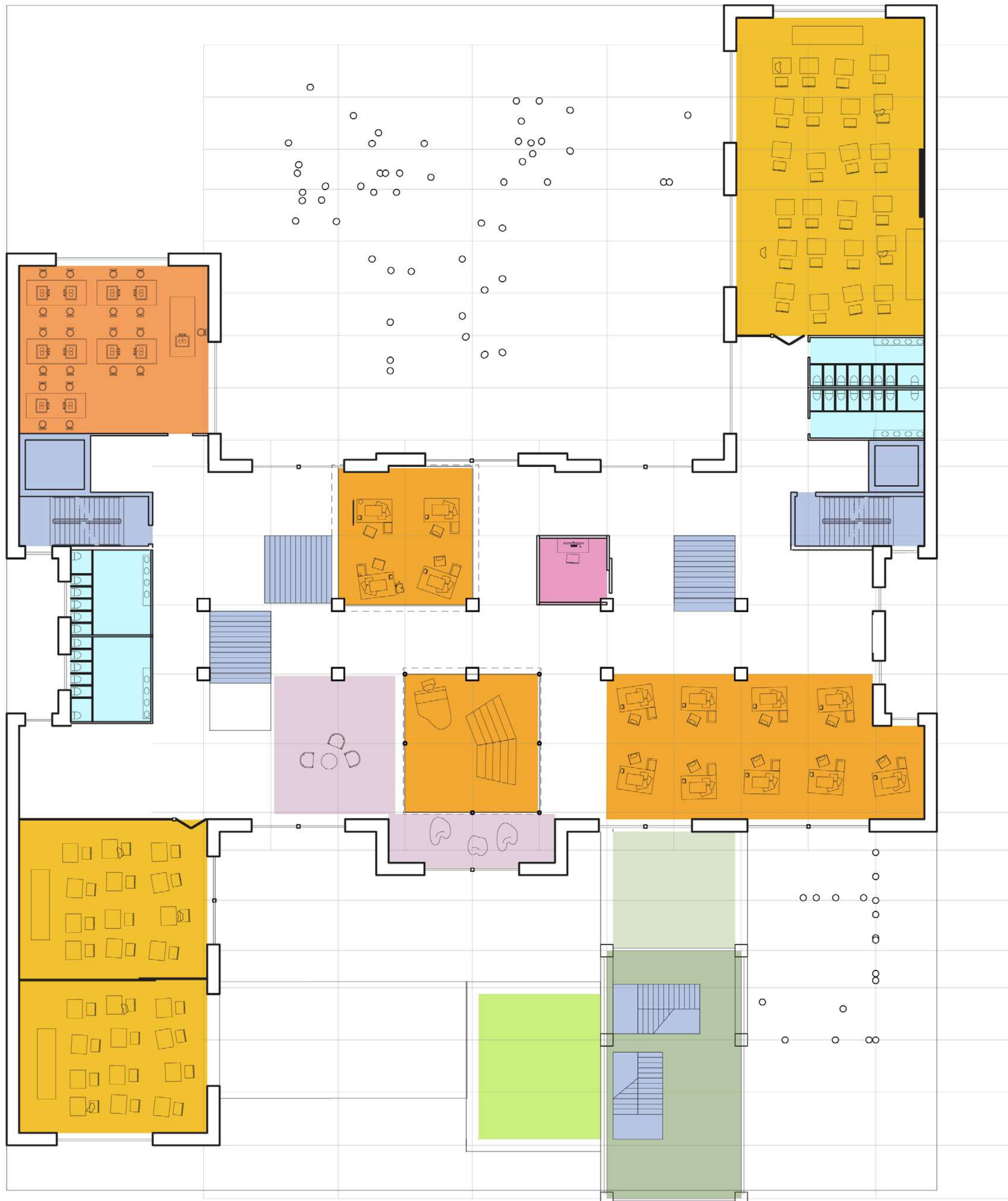




## 2.5 Floor

- Resting Area
- Pathway
- Greenhouse
- Library
- Classroom
- Restroom
- Staircase/ elevator





## 3rd Floor

- Resting Area
- Administration Office
- Pathway
- Greenhouse
- Farm
- Science Lab
- Classroom
- Restroom
- Staircase/ elevator





## 3.5 Floor

- Resting Area
- Administration Office
- Pathway
- Greenhouse
- Farm
- Science Lab
- Classroom
- Restroom
- Staircase/ elevator





## 4th Floor

- Resting Area
- Administration Office
- Pathway
- Greenhouse
- Farm
- Science Lab
- Classroom
- Restroom
- Staircase/ elevator





## 4.5 Floor

- Resting Area
- Administration Office
- Pathway
- Greenhouse
- Farm
- Science Lab
- Classroom
- Restroom
- Staircase/ elevator






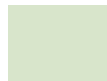
## 5th Floor

- Dining Area
- Kitchen
- Greenhouse
- Classroom
- Restroom
- Staircase/ elevator





## 5.5 Floor

-  Dining Area
-  Kitchen
-  Greenhouse
-  Classroom
-  Restroom
-  Staircase/ elevator

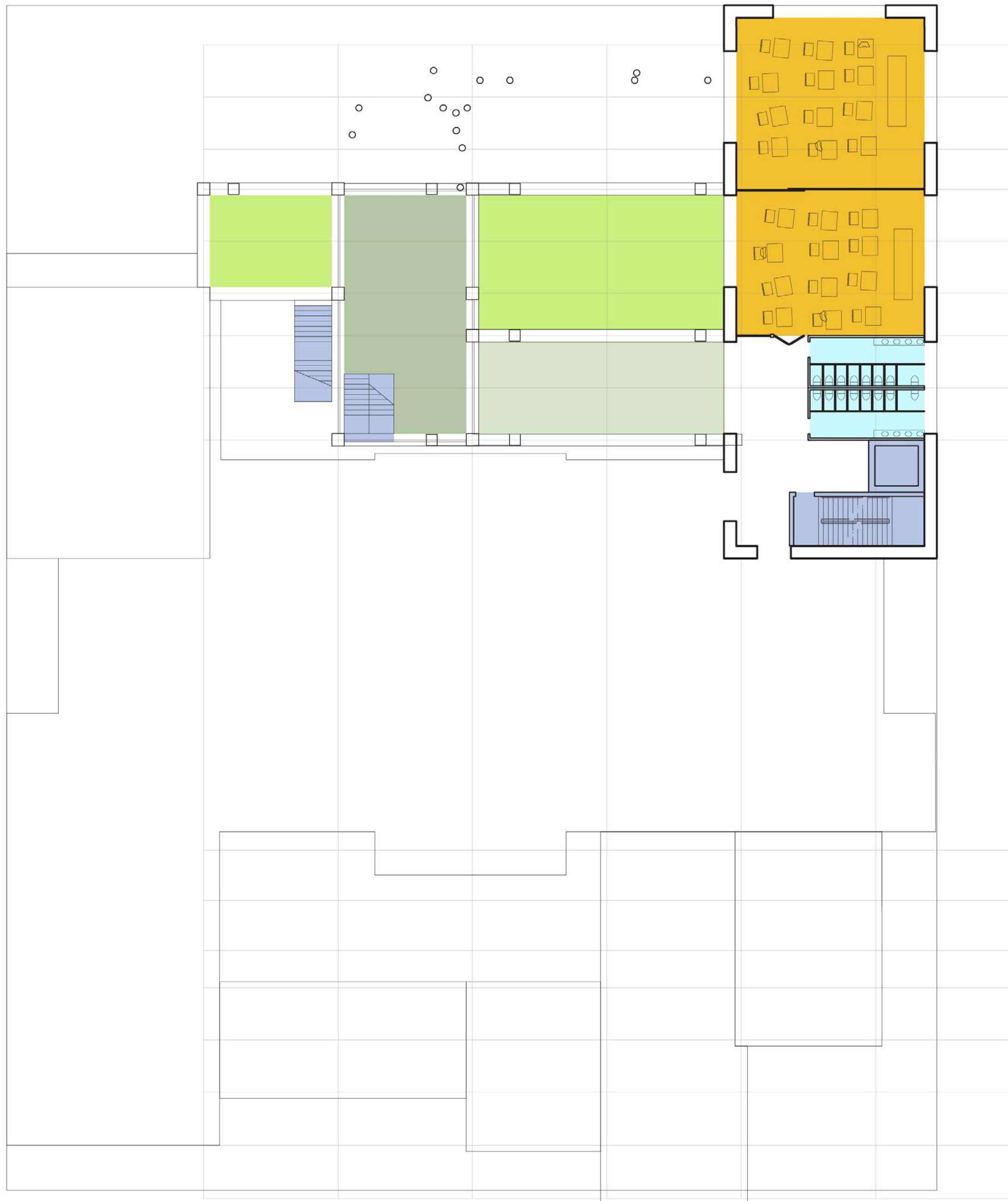






## 6th Floor

-  Greenhouse
-  Farm
-  Classroom
-  Restroom
-  Staircase/ elevator

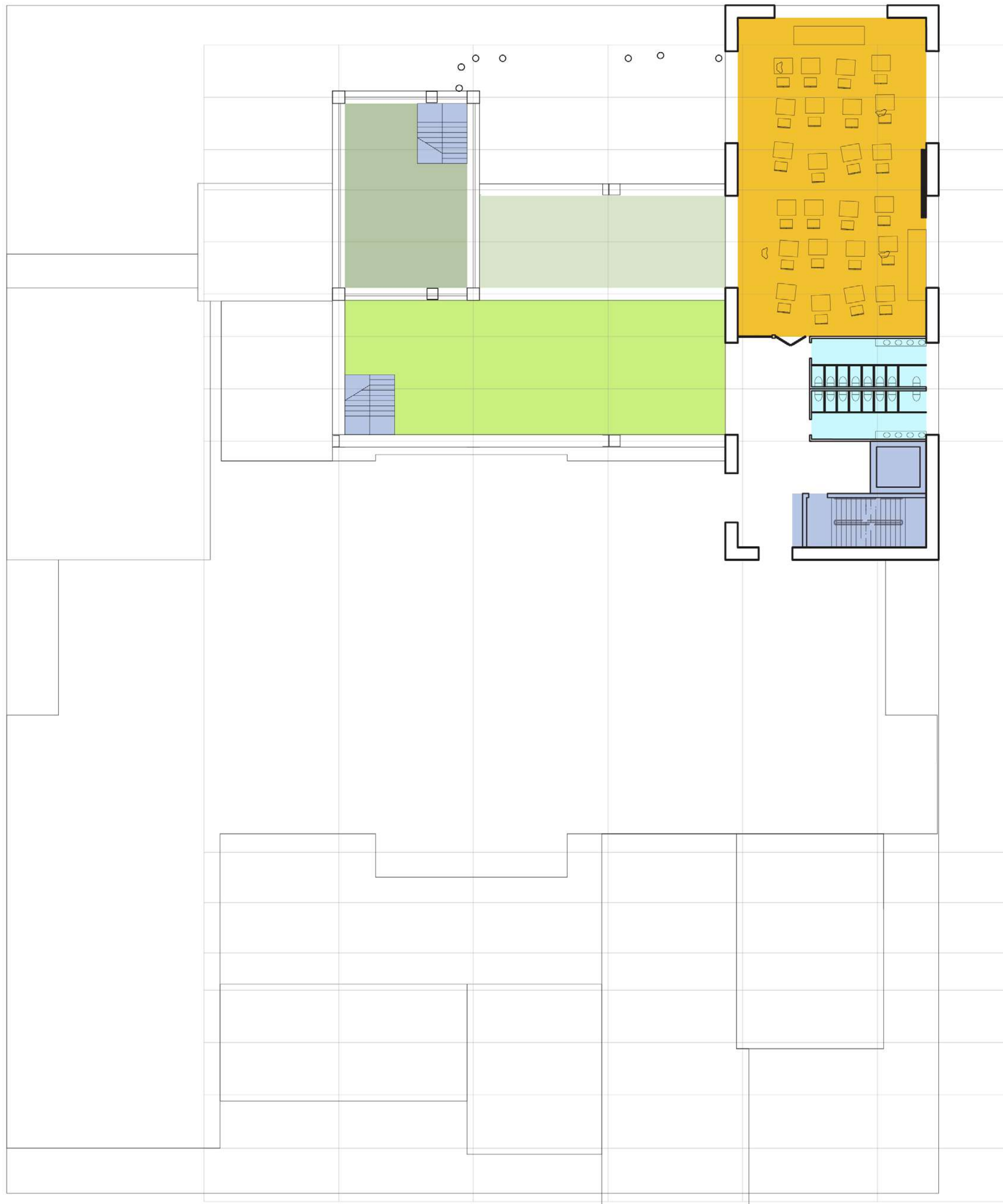




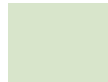





## 7th Floor

-  Pathway
-  Greenhouse
-  Farm
-  Classroom
-  Restroom
-  Staircase/ elevator

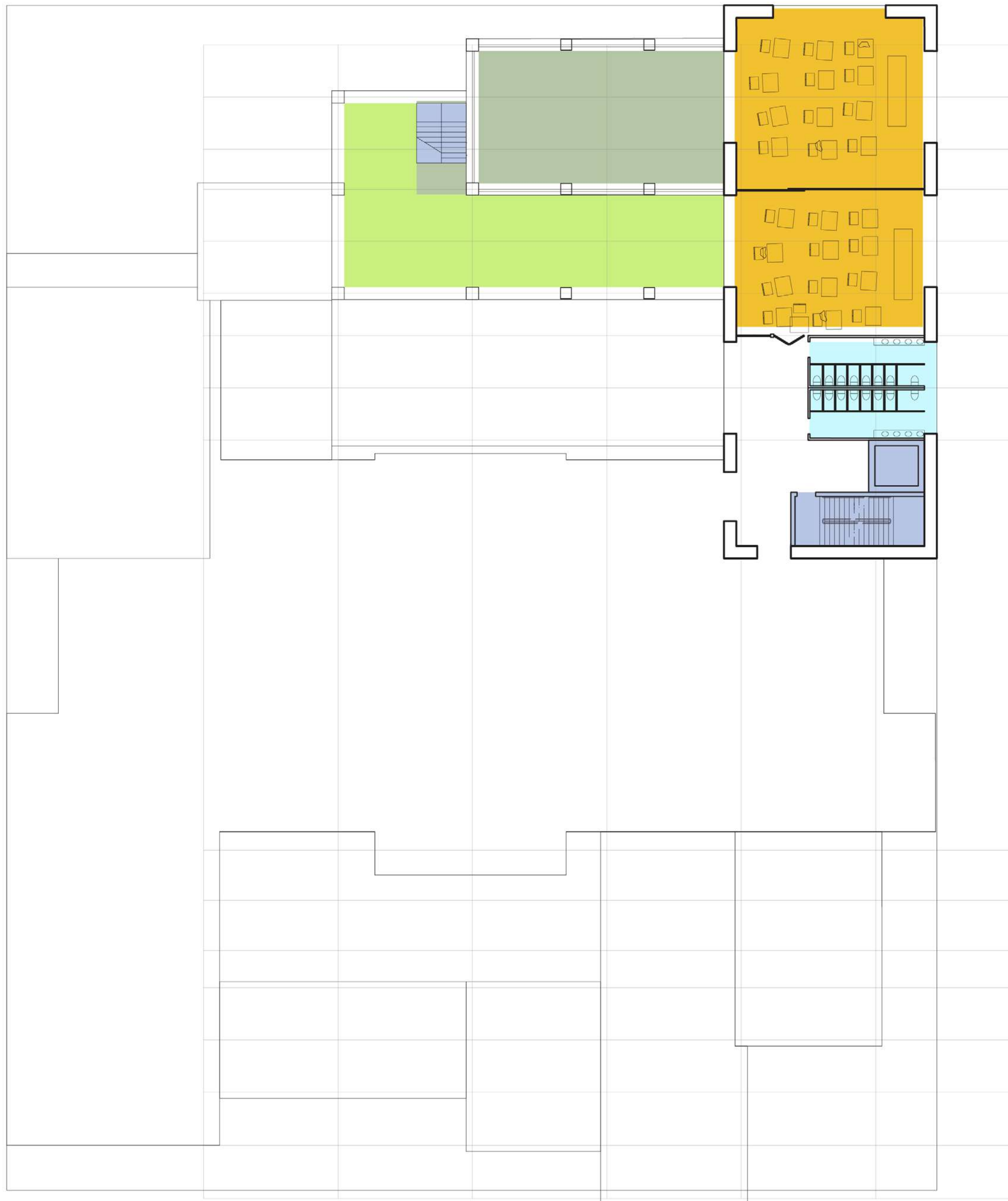




## 8th Floor

-  Pathway
-  Greenhouse
-  Farm
-  Classroom
-  Restroom
-  Staircase/ elevator





## 9th Floor

-  Greenhouse
-  Farm
-  Classroom
-  Restroom
-  Staircase/ elevator

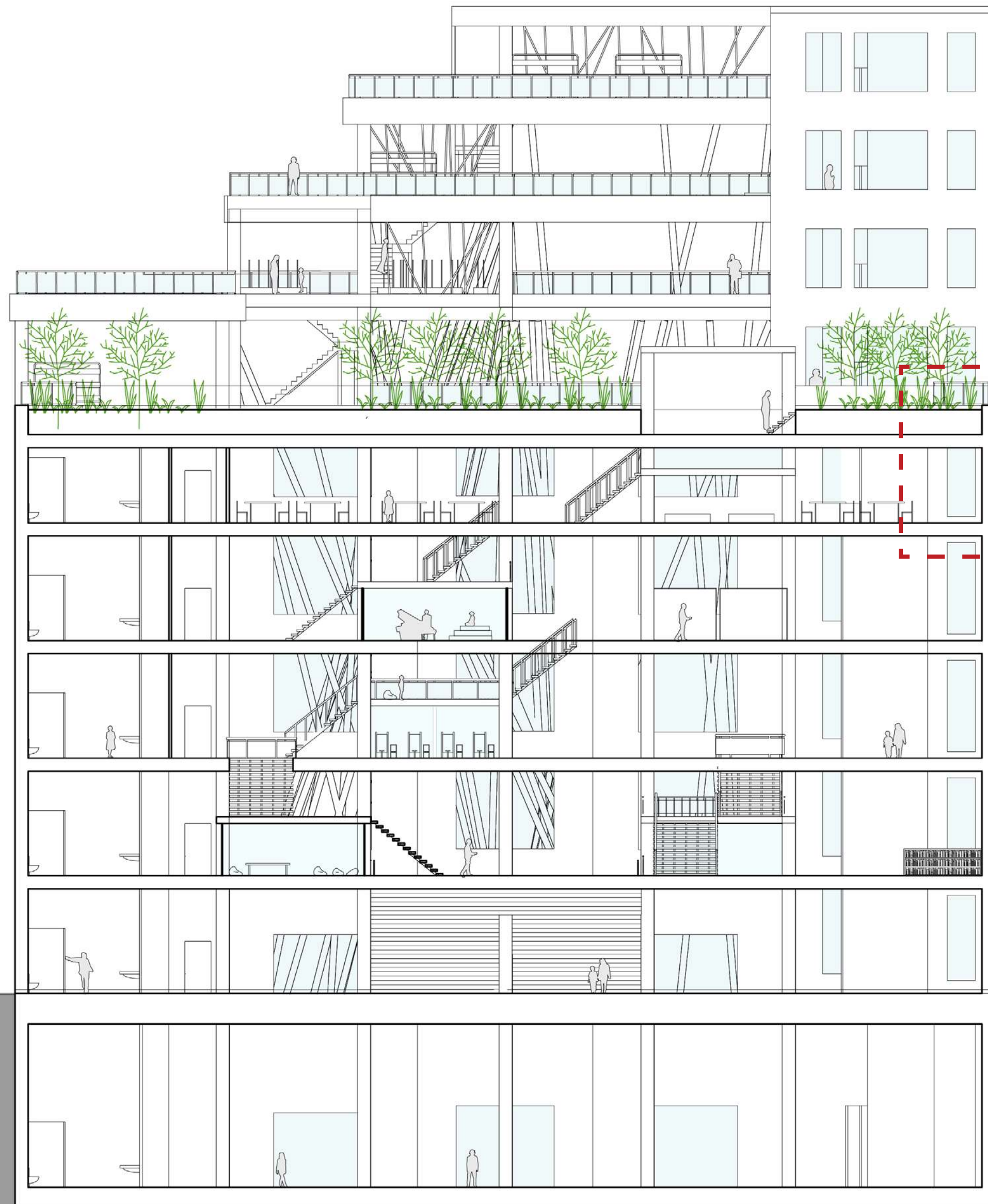




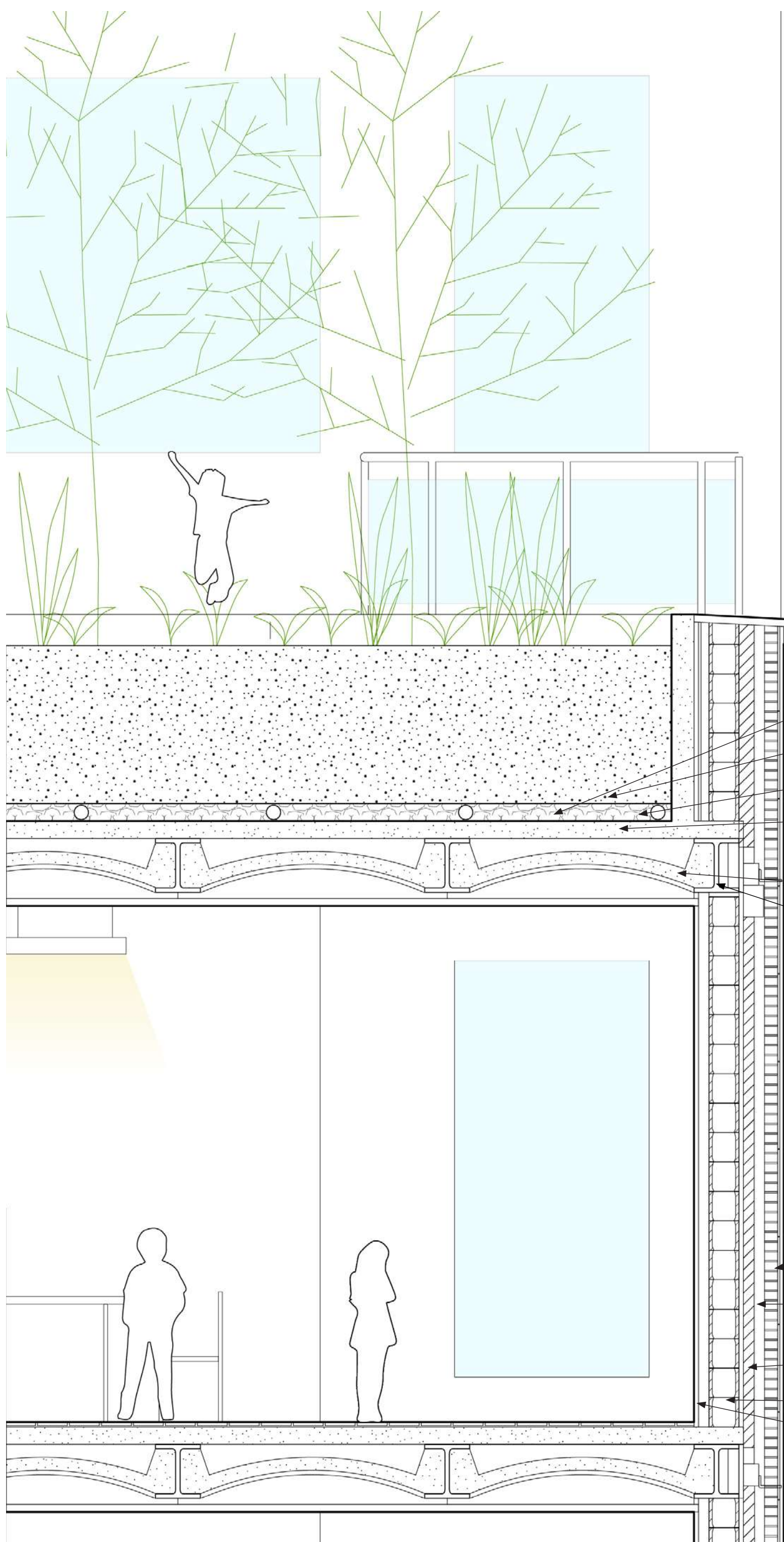












- 1" Drainage pipe
- Waterproof memberance
- 1.5" Gravel roof with vaper barrier
- 2" Reinforced concrete slab
- 2" Reinforced concrete vault
- Original steel I beam
- New wood panel facade
- Original brick facade
- 2" Air space
- 3" Rigid insulation
- 8" CMU wall
- 1/2" Drywall



