Blackrock Youth and Community Center

Shelter. Elevate. Sustain.

Vision Statement

Based on our Black Rock Community analysis, there are many social services which are missing in the area. However, I feel that **spaces for children and young adults to spend time outside of school is one of the most important social spaces not present near the site.** There needs to be a safe place where children can go after school or on weekends to socialize and continue learning, especially if their parents/guardians are at work and cannot supervise them.

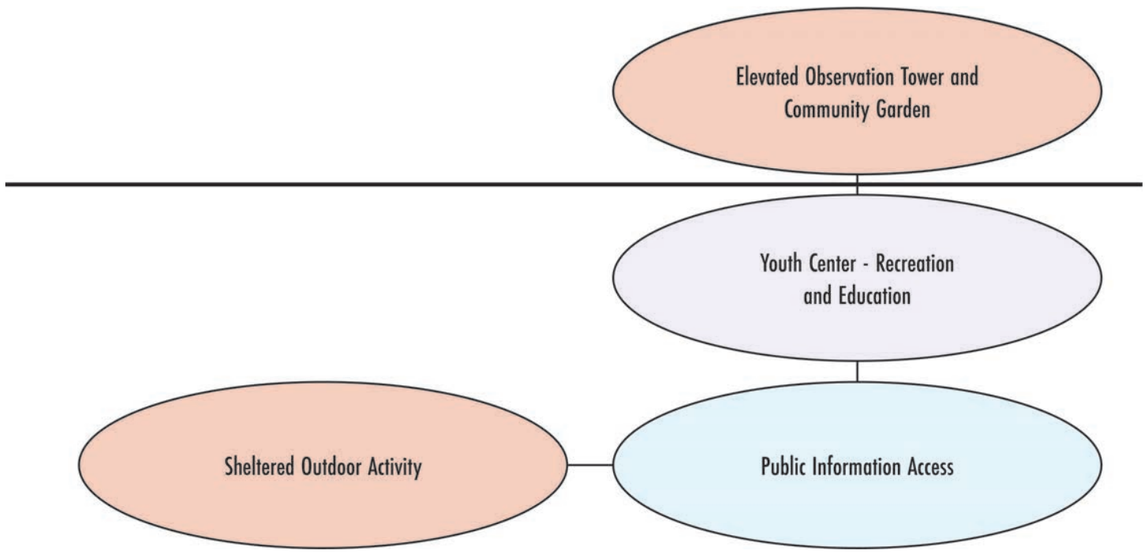
To address these needs, **I am proposing a Youth and Community Center, which will be free and open to the public.** This center will be designed for children aged 11-18 as the target audience, however all of the spaces can be used by adults in the community if needed. Within the center, there will be many social, recreational, and educational activities for children to participate in. Tutoring sessions will be available for students who need homework help. A sound-proofed music room will also be available for students to practice instruments. A computer lab with high-speed internet and printers will allow students to work on projects, as well as further their education. Many indoor and outdoor physical activities will be offered, such as basketball and other team-building activities in the multi-purpose gym, and an outdoor playground. In addition to these, there will be recreational spaces like a board game room, video game consoles, and TV lounges. Lastly, a small learning kitchen will be present, where snacks and drinks will be served.

The ultimate goal of the building is to give children and young adults a safe and nurturing space to interact with and grow alongside their peers. Parents and other community members are welcome to use the space, and many of the rooms can be easily transitioned to accommodate other activities such as meetings, conferences, etc. This is especially true with the computer lab, which will be easily accessible from the entry of the building, and **anyone can use the computers, internet, or printer for information access.** With the intervention of this program in Black Rock, a vibrant sense of community will be established within the next generation, which will influence them to stay in the area and continue to fight for Black Rock's future.

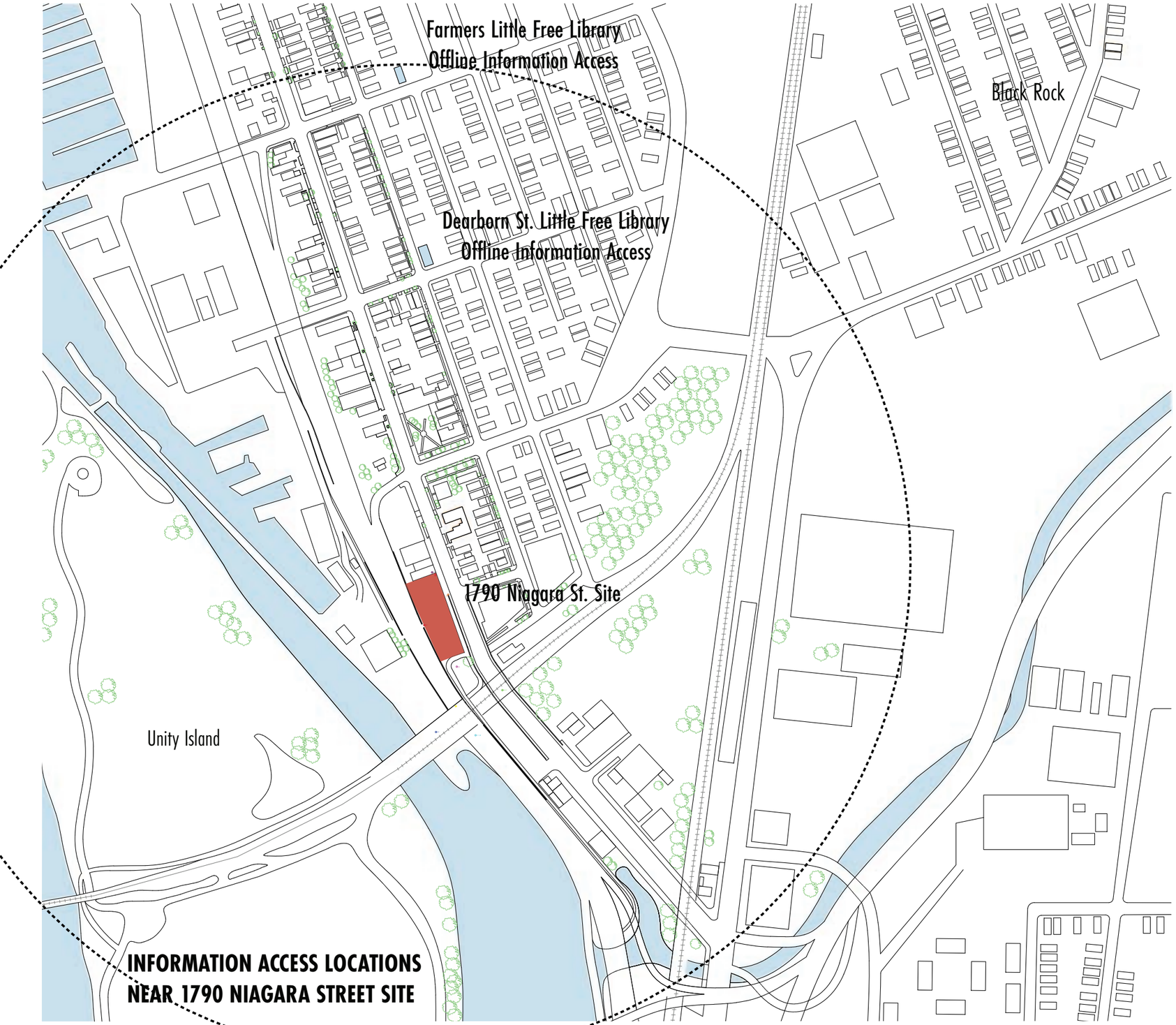
Functional Program List

Meeting room for tutoring (3)	(3x200 sq.ft.) 600 sq.ft.
Common area/lounge	1,600 sq.ft.
Computer lab with printing station	1,000 sq.ft.
Board and/or video game room (2)	(2x300 sq.ft.) 600 sq.ft.
Instrument practice room (3)	(3x200 sq.ft.) 600 sq.ft.
Small kitchen to prepare snacks	600 sq.ft.

Total: 5,000 sq.ft.



INFORMATION



Only 50% of residents within close proximity to the site have broadband internet at home, which is necessary for high-speed applications. The site's surrounding context is severely lacking in free, public infrastructure to support information and internet access to compensate for this.

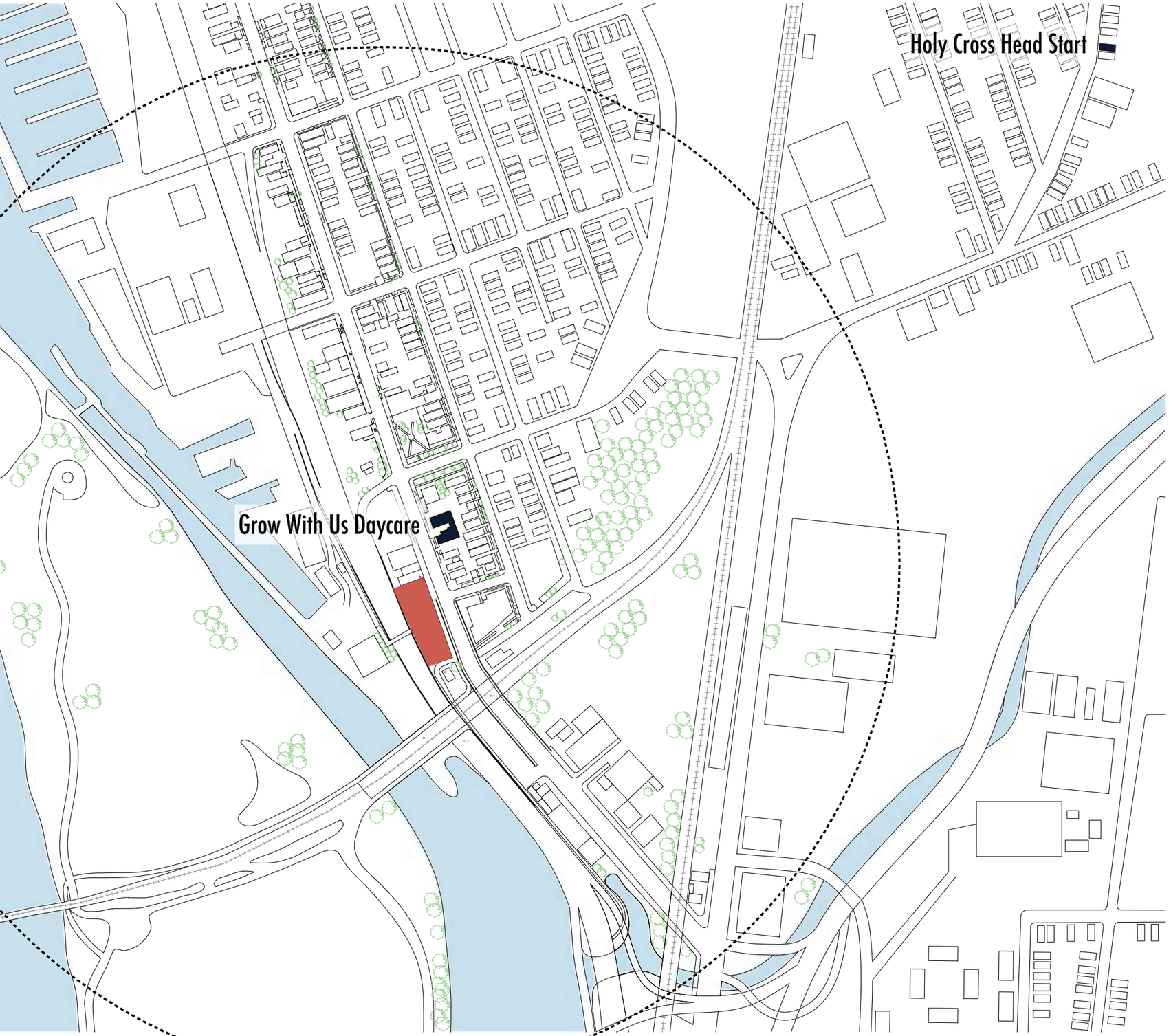
Dearborn St. Little Free Library (269 Dearborn Street)
0.3 Miles from Site (7 Minute Walk)

Information Access Outside Map Boundaries

Tim Hortons (2207 Niagara Street)
0.9 Miles from Site (18 Minute Walk)

Elaine M. Panty Branch Library (820 Tonawanda Street)
1.5 Miles from Site (28 Minute Walk)

COMMUNITY SUPPORT



There are virtually no facilities that house community support within reasonable proximity to the site.

Community support consists of any resources or programs that support community well being. The support may be information, advice, practical help, financial help or a combination of services.

Many of these services are housed in other facilities such as Libraries, Schools, YMCA's, and Boys/Girls Clubs.

Daycares are one type of community support that typically have their own facility. Daycares are the only community support offered close to the target area.

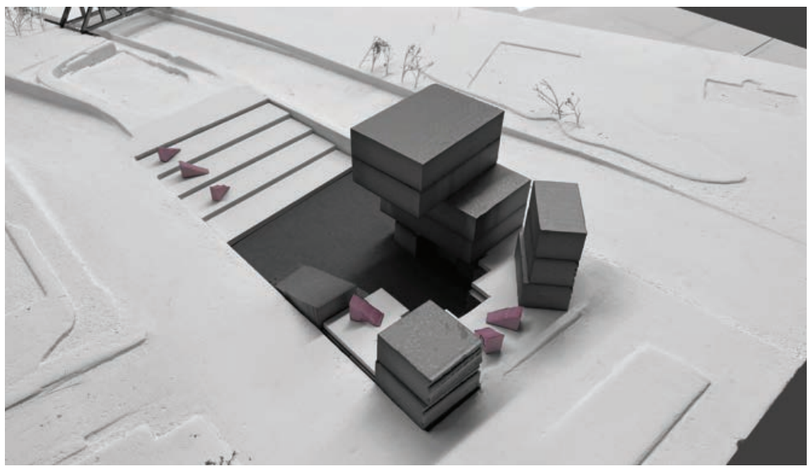
Holy Cross Headstart enrolls 74 children in four classrooms, and host two UPK classrooms. They offer extended day services, from 7:30 am- 4:30 pm.

Grow With Us Daycare has the capacity for approximately 60 children, and is open 6 am- 6pm on weekdays.

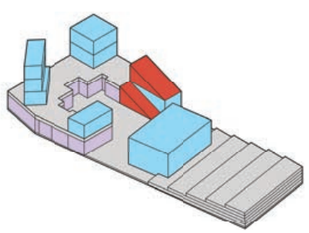
Blackrock Youth and Community Center Design Iterations

Diagram Key: - Public Space - Private Space - Circulation

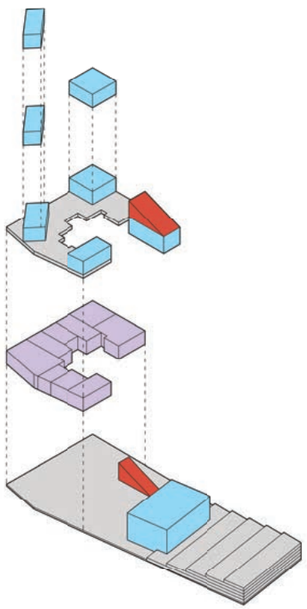
1 - Jigsaw Cut



The ground is cut, providing direct sunlight into the below-grade program spaces. This results in the creation of a courtyard space which is directly connected to the green park and public steps on the rest of the site. The three at-grade spaces remain separate, with a somewhat linear path through the plaza, as well as below-grade egress to connect them.

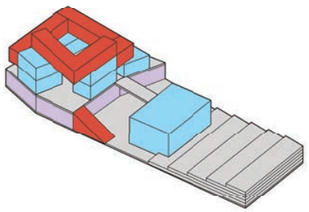


1 - Axon



1 - Exploded Axon

2 - Pointed Portals



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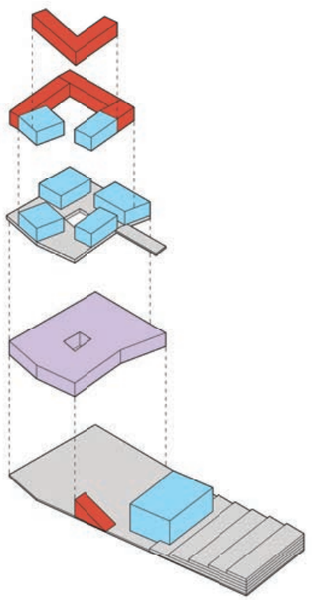

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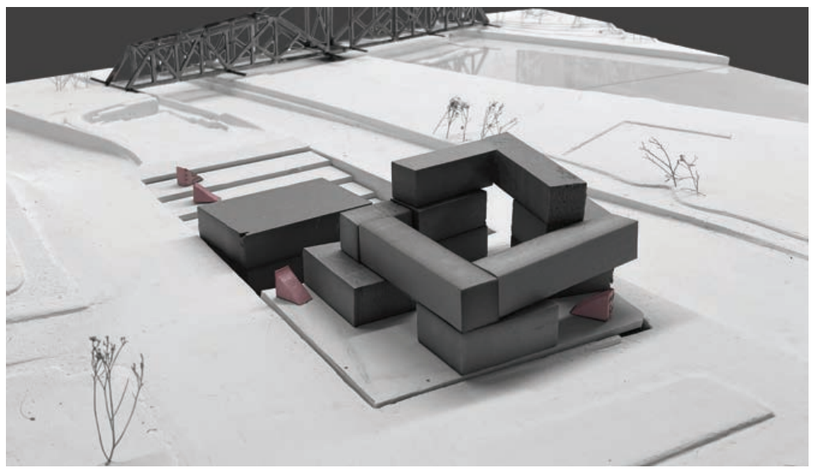
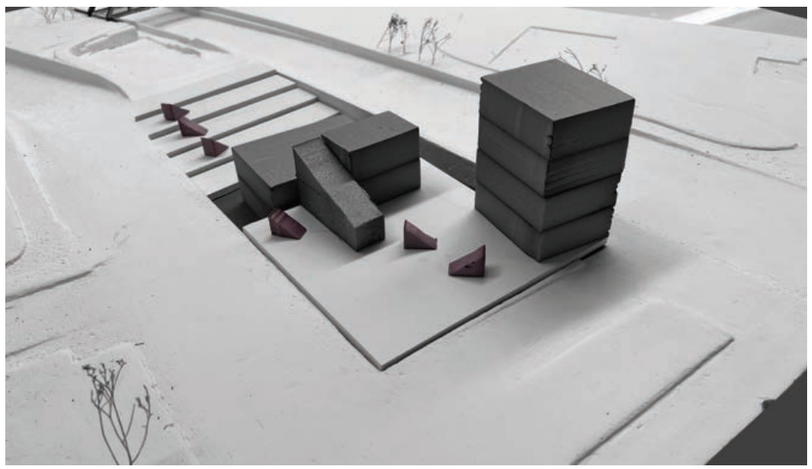
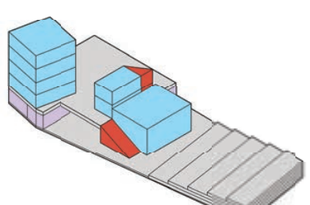


In this scheme, the three at-grade program spaces begin to connect with bridges, creating portals which provide a symbolic boundary to the at-grade plaza. The below-grade space is a mostly solid block, with a central rectangular interior courtyard cut out into the above plaza.

3 - Town Square



This scheme uses a path-like approach to the underground programmatic space, creating a below-grade courtyard which opens out to directly connect to the green park and public steps on the rest of the site. In addition, the at-grade program spaces are setback as far as possible from the street, creating a large 'town square' of open space.



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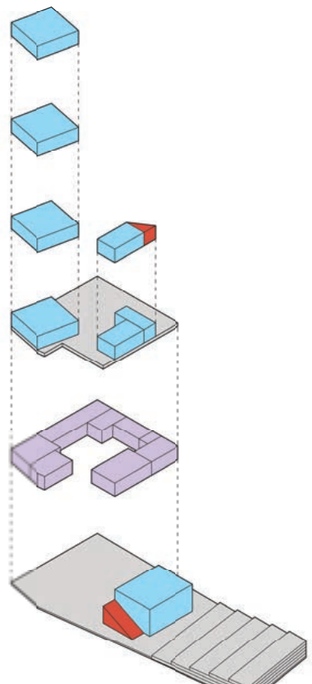

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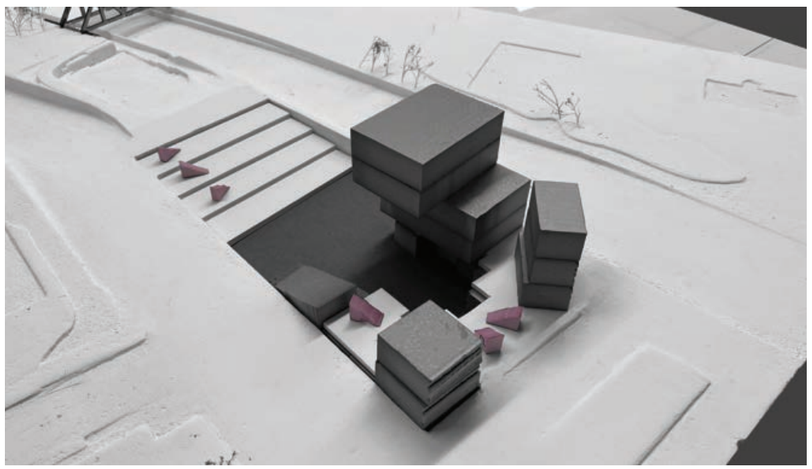

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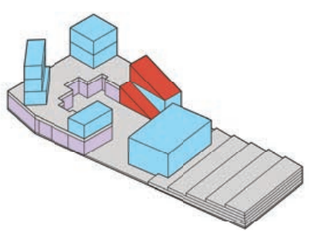

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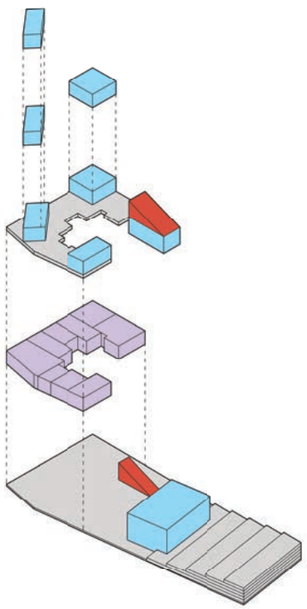

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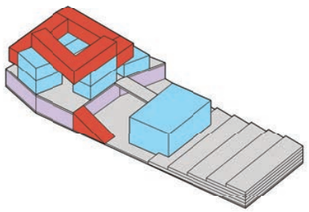

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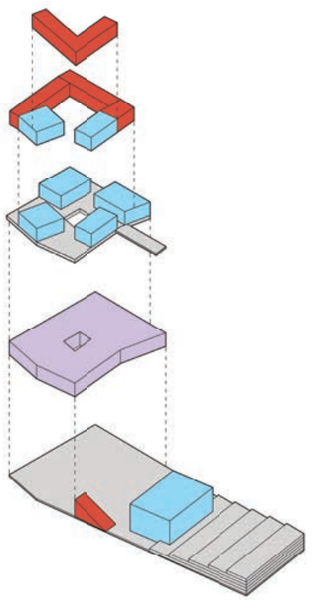

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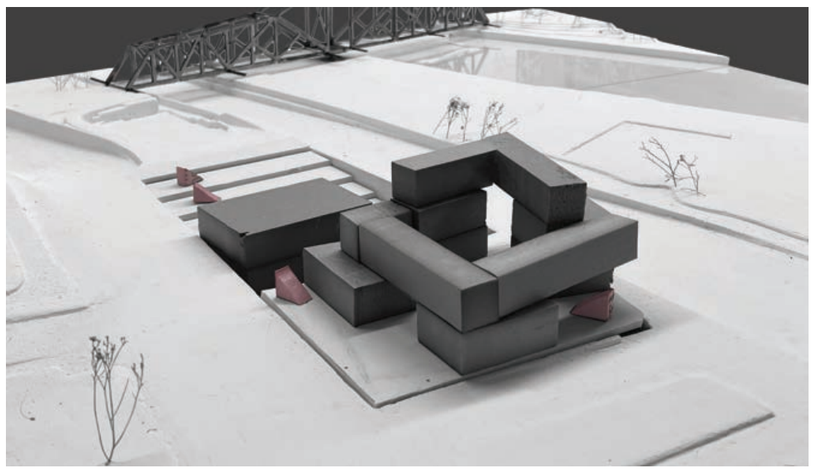

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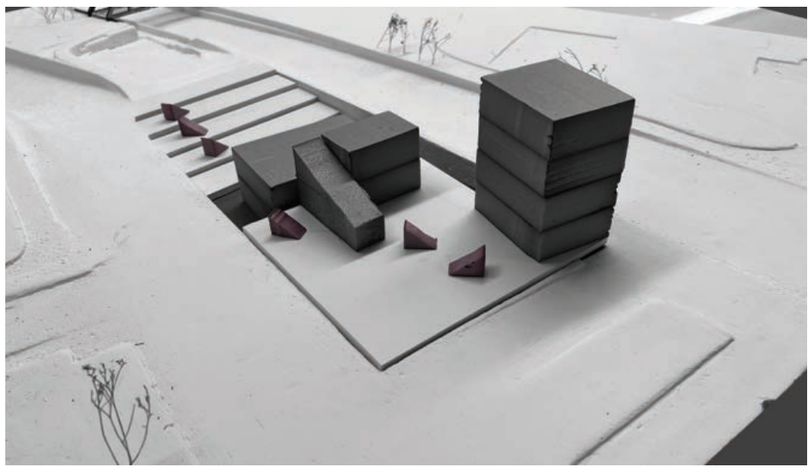

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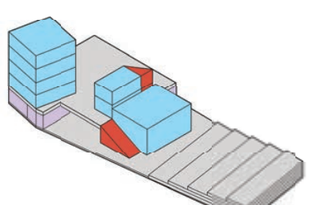

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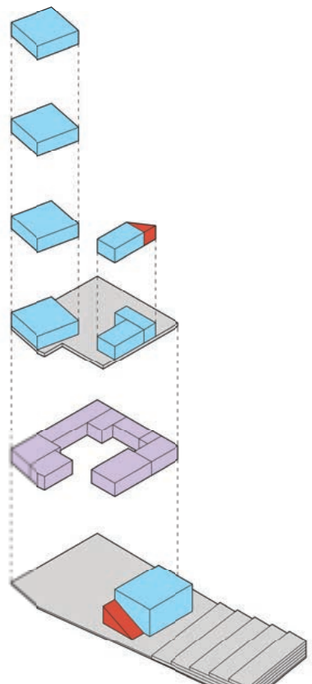
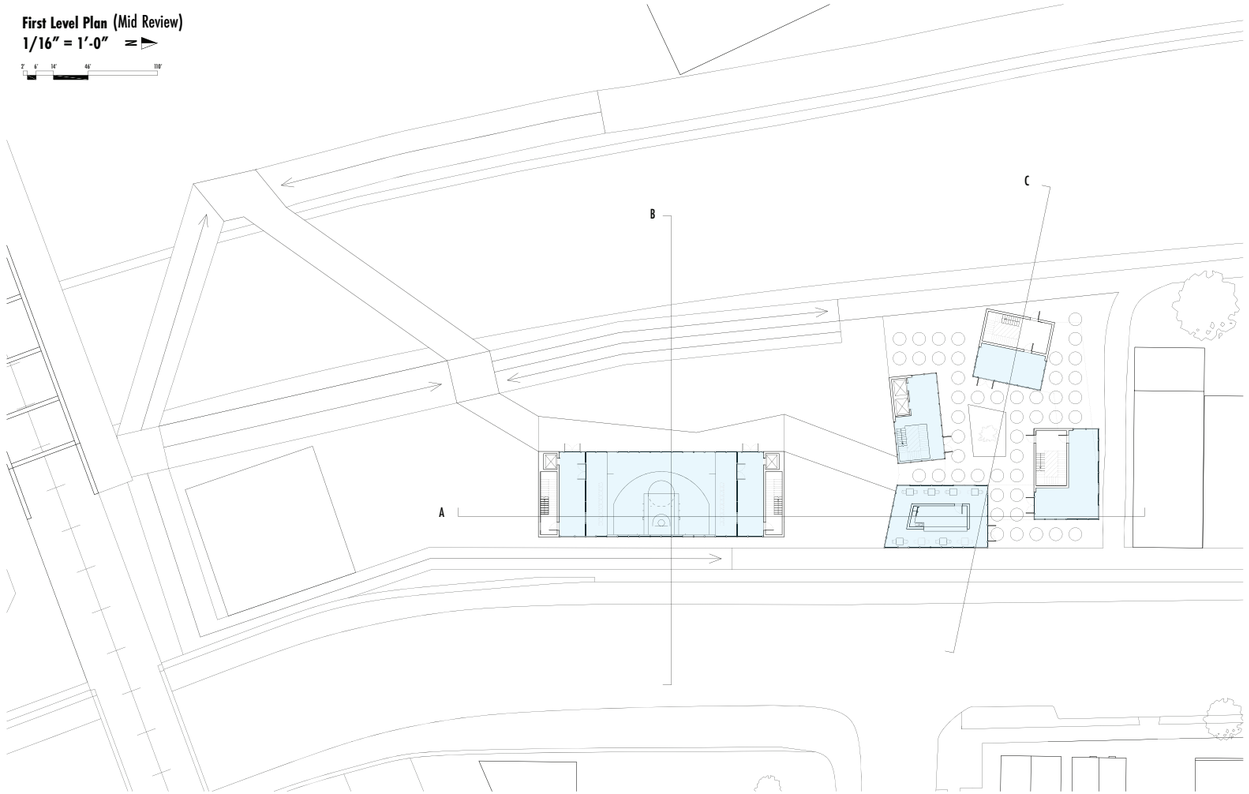


3 - Exploded Axon

First Level Plan (Mid Review)
1/16" = 1'-0"



Third Level Plan (Mid Review)
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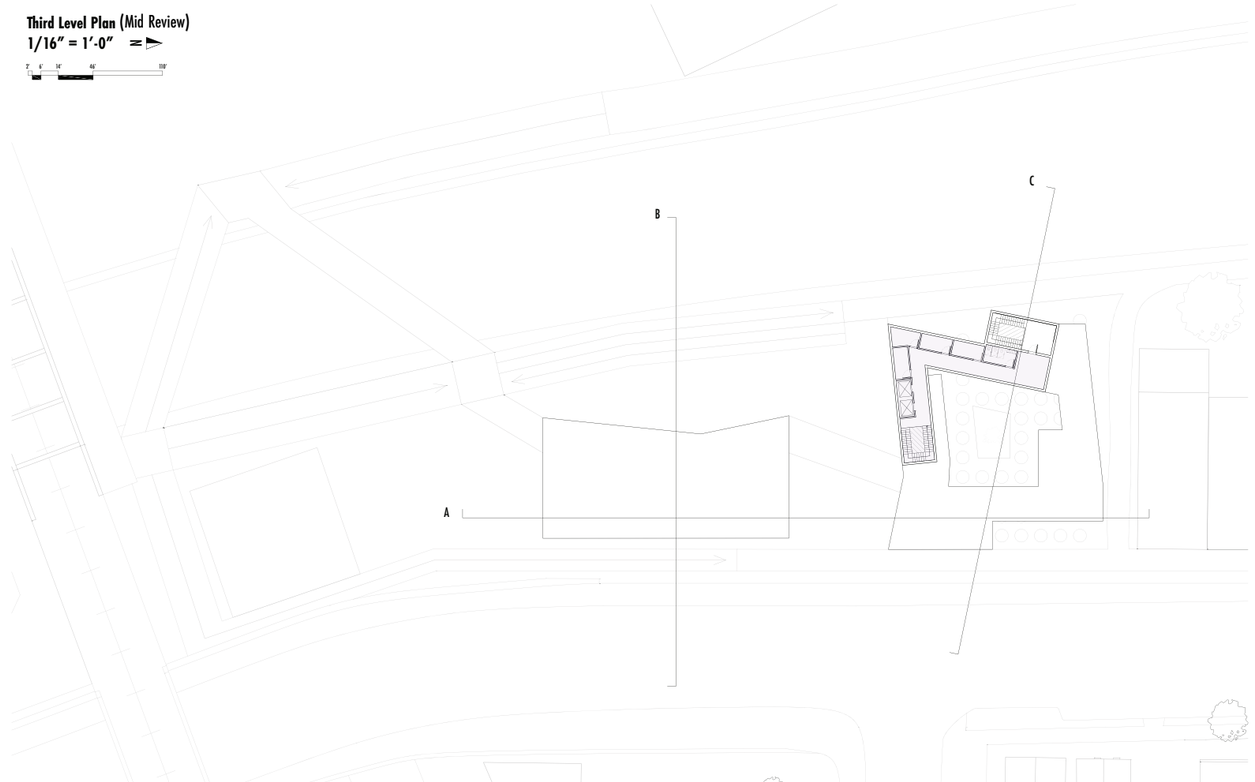
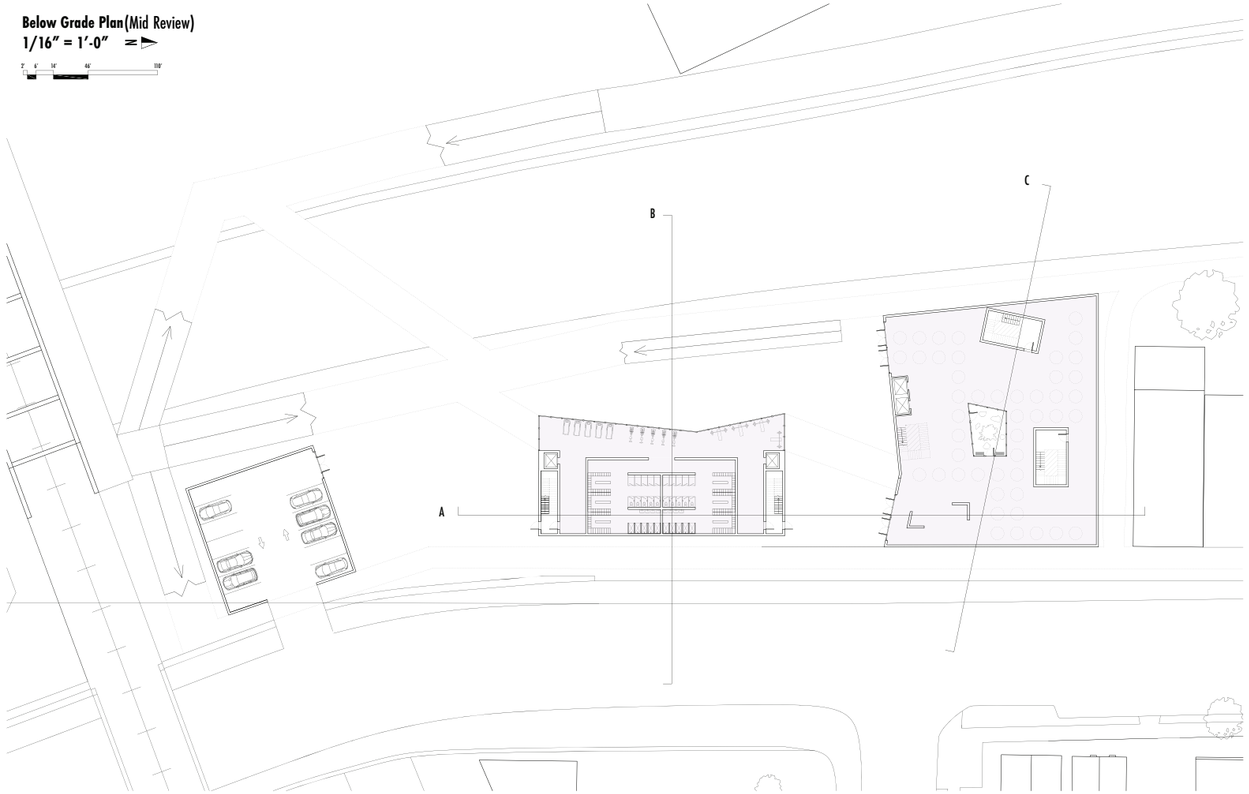
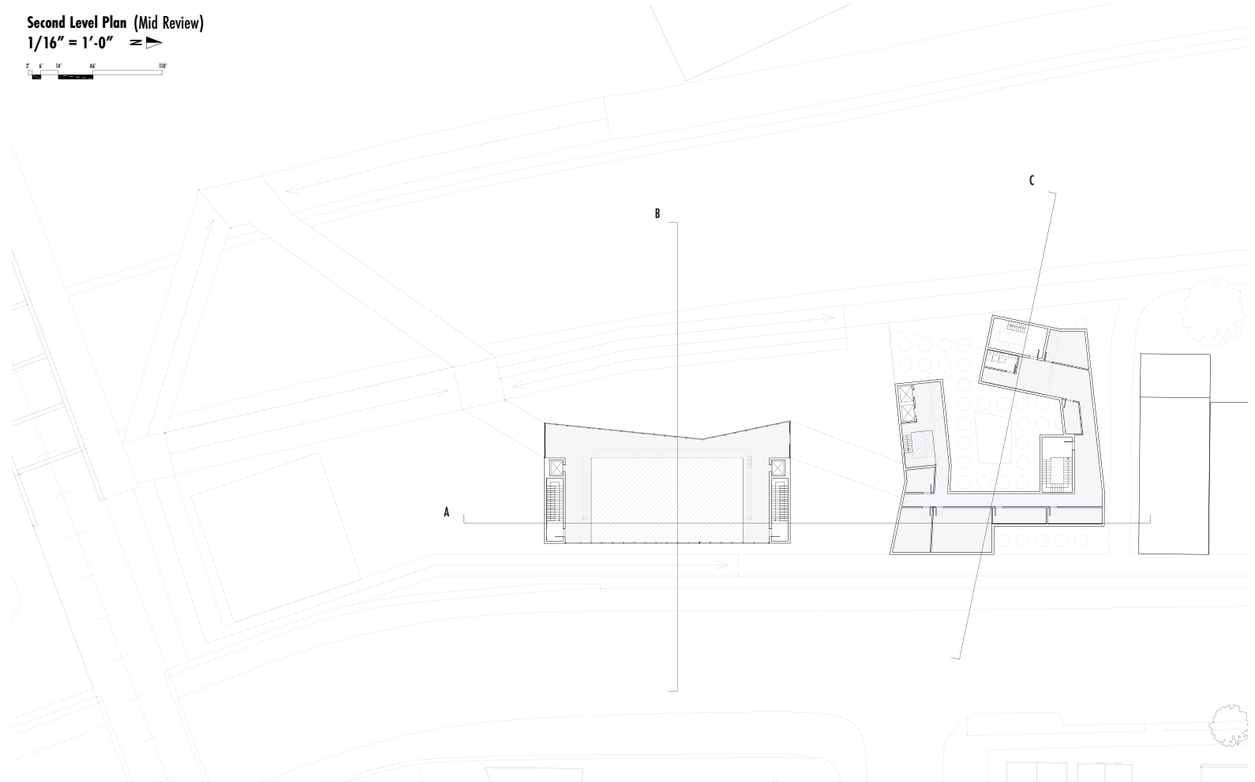


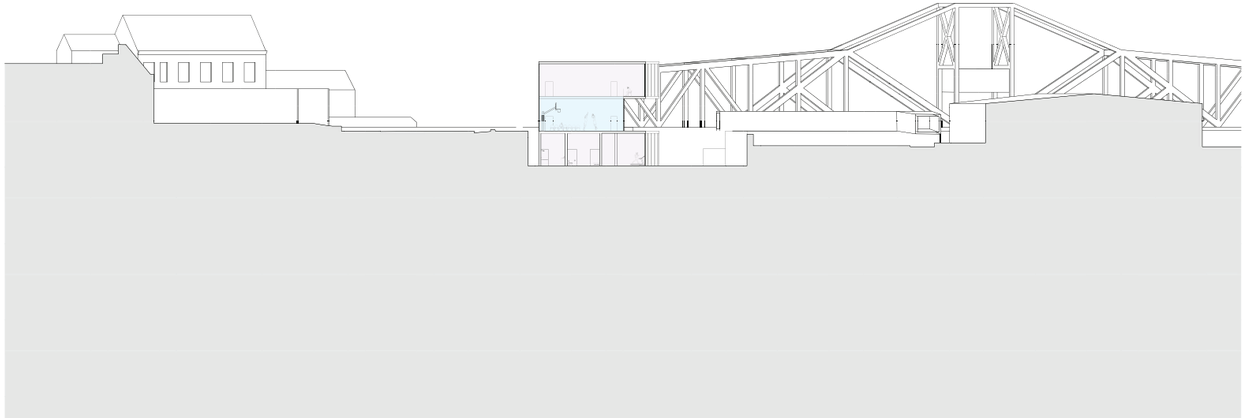
Below Grade Plan (Mid Review)
1/16" = 1'-0"



Second Level Plan (Mid Review)
1/16" = 1'-0"



Section B (Mid Review)
1/16" = 1'-0"



Egress & Exiting Axonometric (Structural Review)
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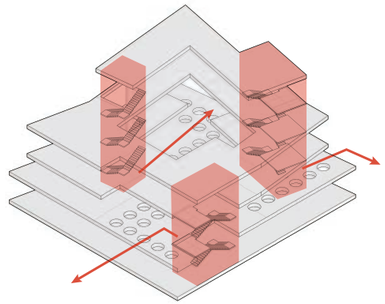

Section A (Structural Review)
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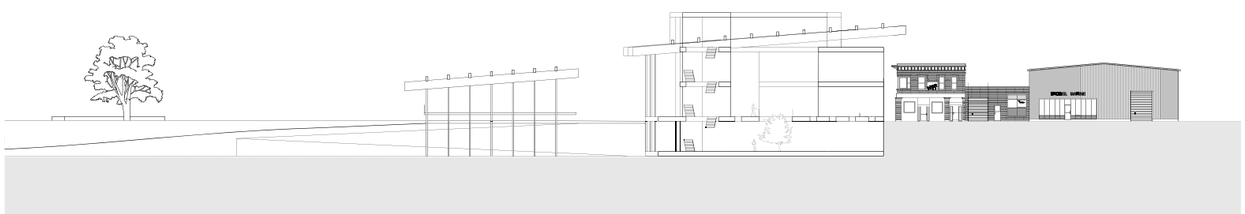

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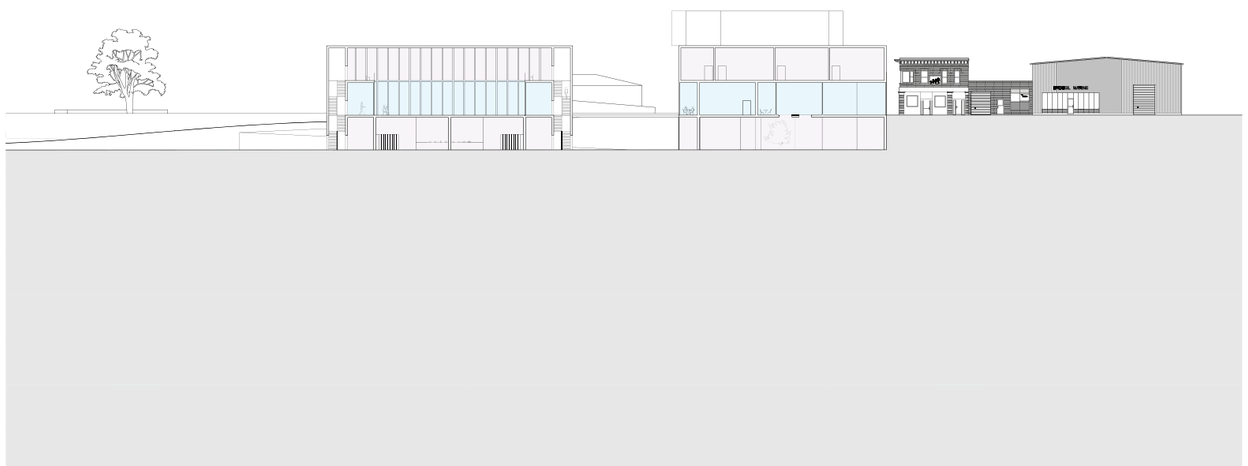

Section C (Mid Review)
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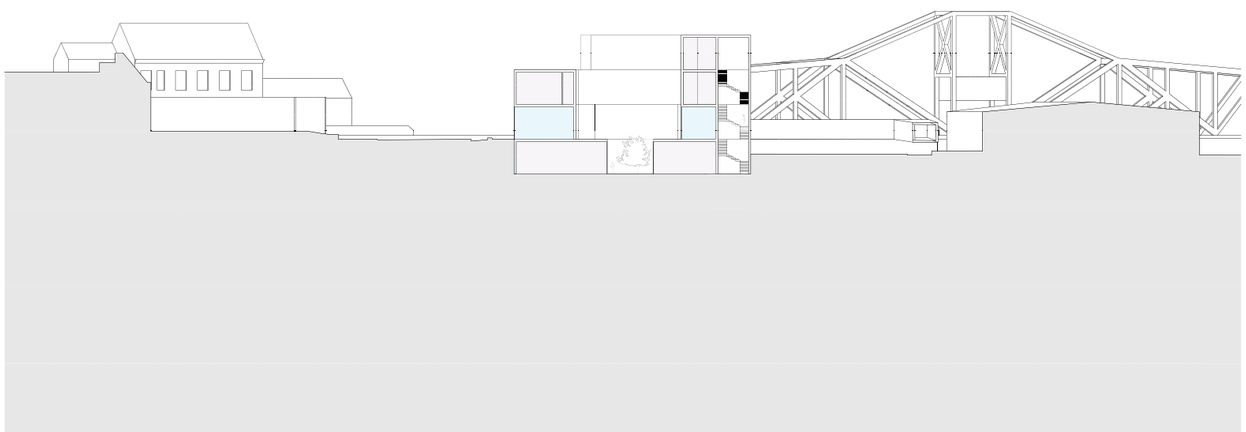
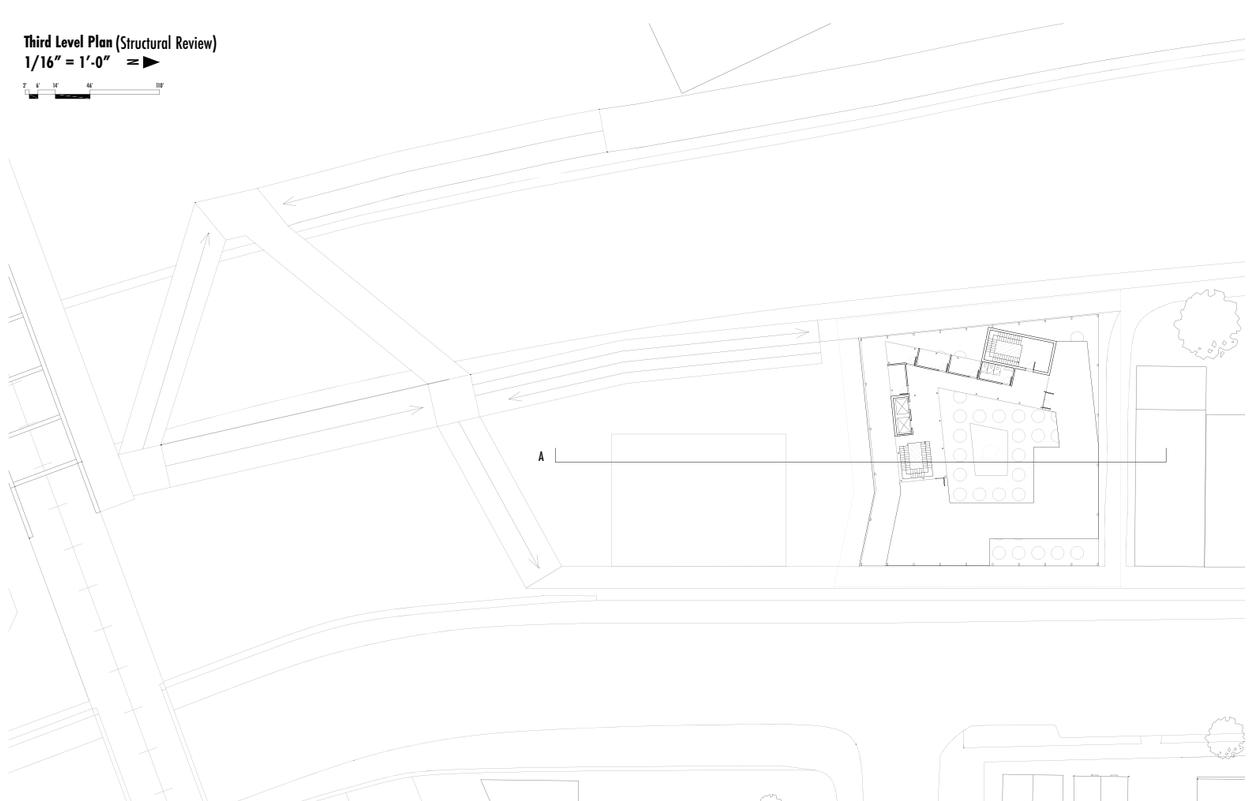
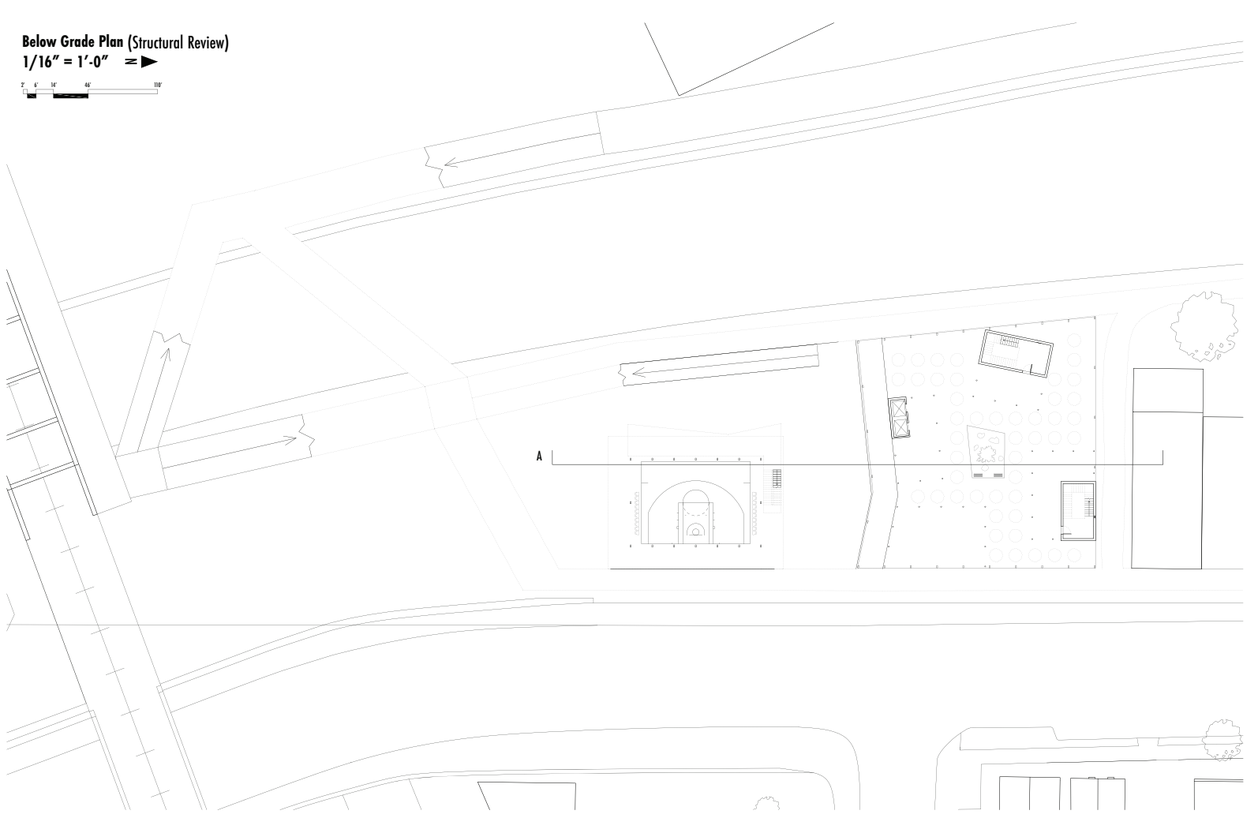


First Level Plan (Structural Review)
1/16″ = 1′-0″

Third Level Plan (Structural Review)
1/16″ = 1′-0″



Below Grade Plan (Structural Review)
1/16″ = 1′-0″

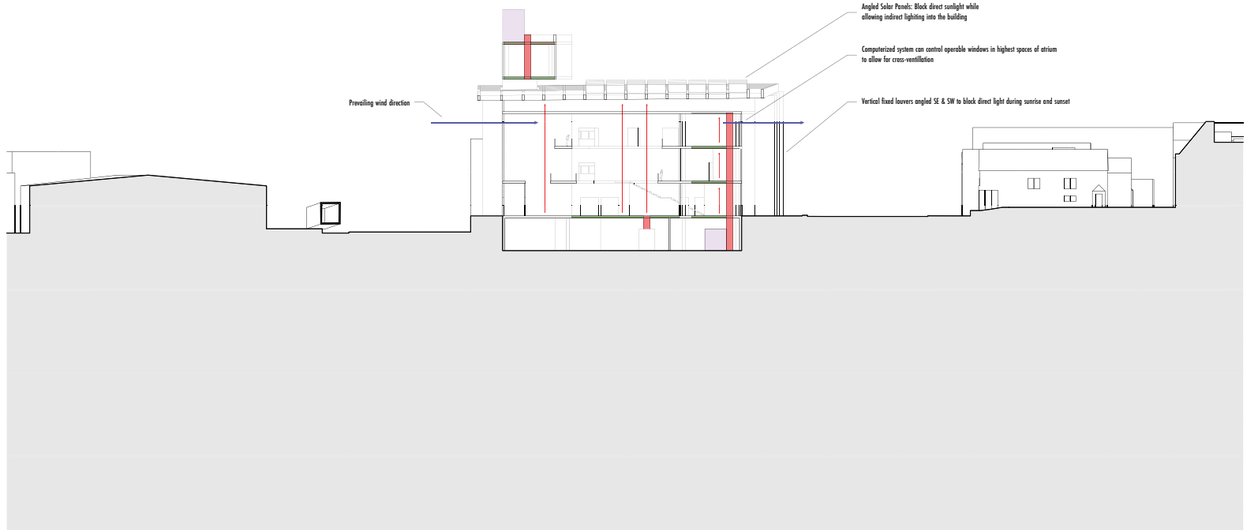


Second Level Plan (Structural Review)
1/16″ = 1′-0″

Section B (Systems Review)
1/16" = 1'-0"

2' 8' 16' 44' 110'

Air Handling Units
Vertical Shafts
Supply Ducts
Return Ducts



Section A (Systems Review)
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Air Handling Units
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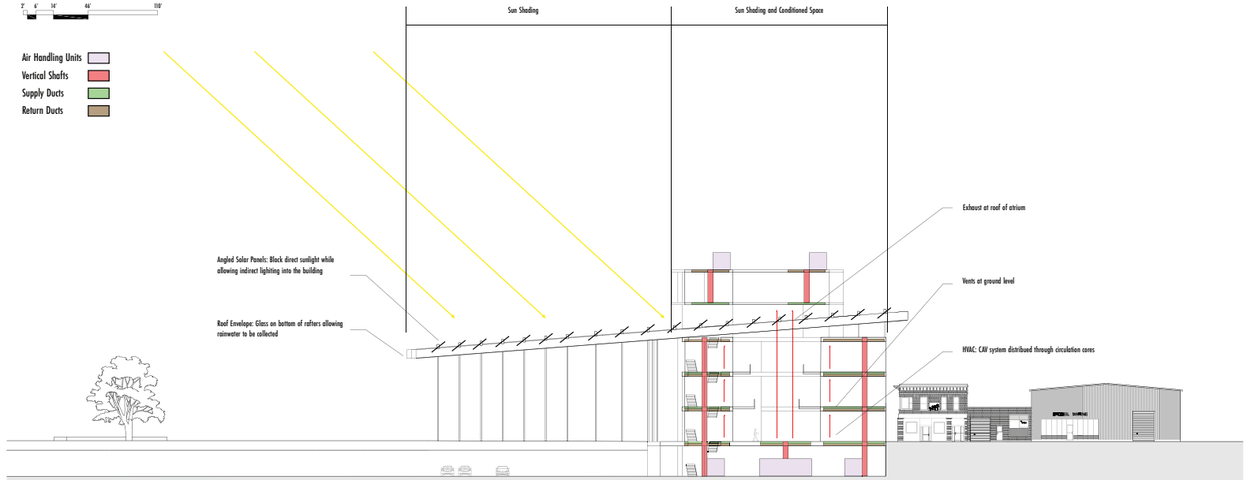
Return Ducts



First Level Plan (Systems Review)
1/16" = 1'-0"

2' 8' 16' 44' 110'

HVAC KEY:
Air Handling Units
Intake/Exhaust
Vertical Shafts
Ducts

Note: Supply occurs on floor and return occurs on ceiling of each space, allowing ducts to stack

Below Grade Plan (Systems Review)
1/16" = 1'-0"

2' 8' 16' 44' 110'

HVAC KEY:
Air Handling Units
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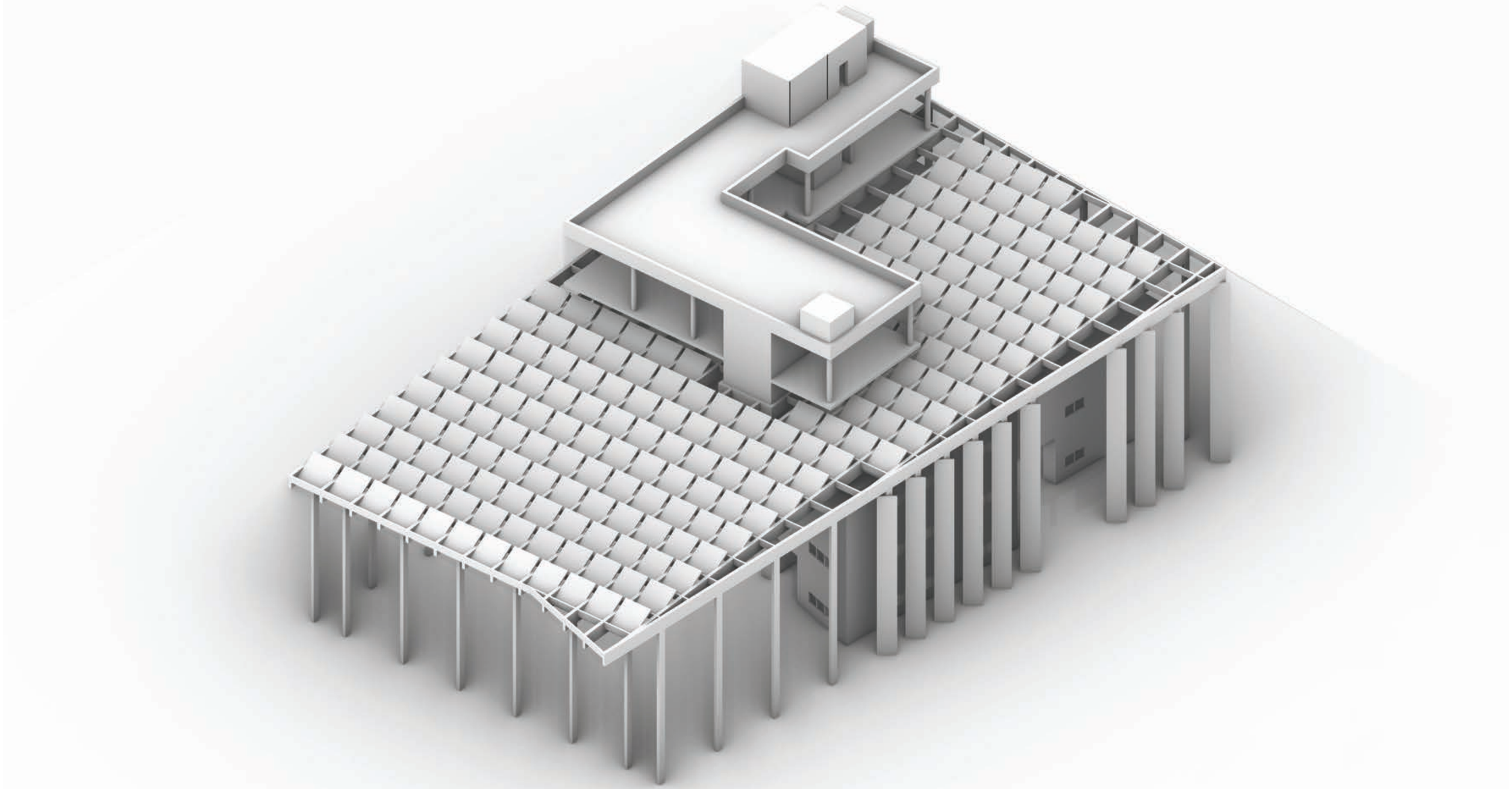
Ducts

Note: Supply occurs on floor and return occurs on ceiling of each space, allowing ducts to stack

Axonometric (Systems Review)



Third Level Plan (Systems Review)
1/16" = 1'-0"

2' 8' 16' 44' 110'

HVAC KEY:

- Air Handling Units
- Intake/Exhaust
- Vertical Shafts
- Ducts

Note: Supply occurs on floor and return occurs on ceiling of each space, allowing ducts to stack

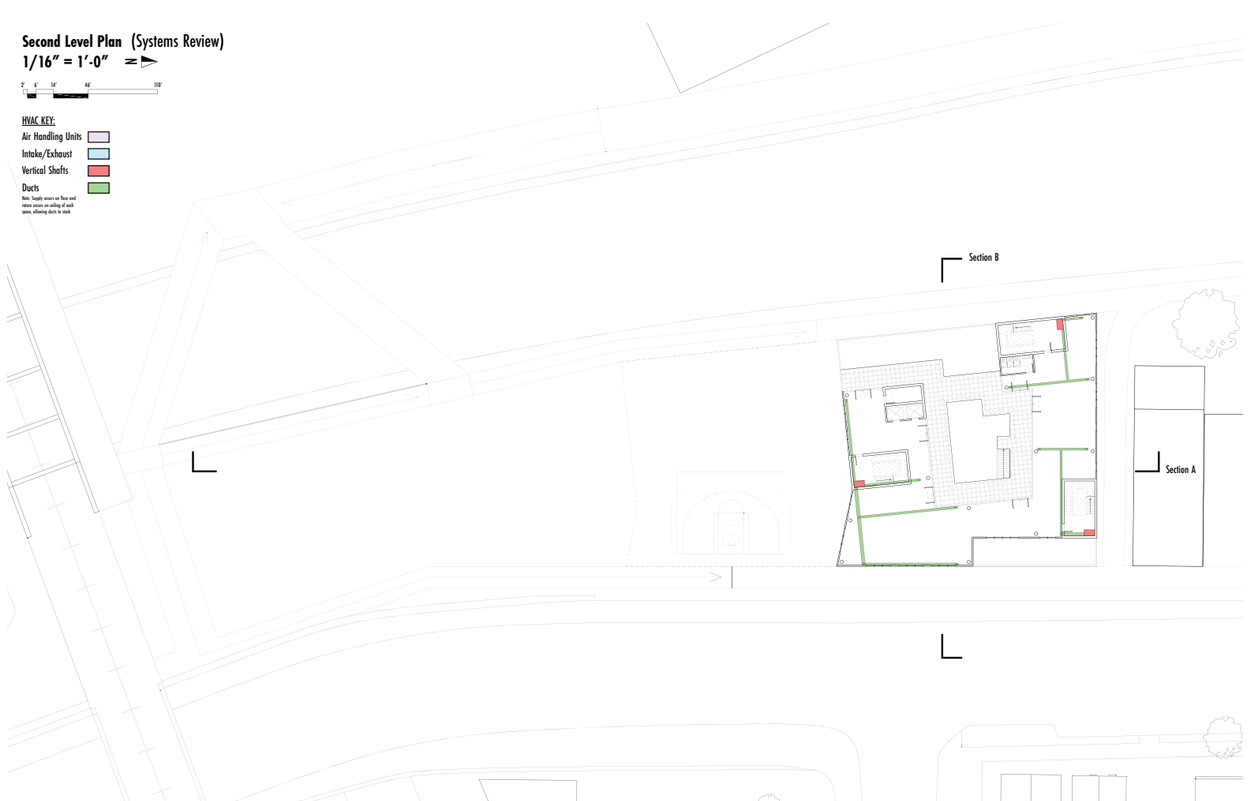
Second Level Plan (Systems Review)
1/16" = 1'-0"

2' 8' 16' 44' 110'

HVAC KEY:

- Air Handling Units
- Intake/Exhaust
- Vertical Shafts
- Ducts

Note: Supply occurs on floor and return occurs on ceiling of each space, allowing ducts to stack



Fourth Level Plan (Systems Review)
1/16" = 1'-0"

2' 8' 16' 44' 110'

HVAC KEY:

- Air Handling Units
- Intake/Exhaust
- Vertical Shafts
- Ducts

Note: Supply occurs on floor and return occurs on ceiling of each space, allowing ducts to stack

Atrium Roof Plan (Systems Review)
1/16" = 1'-0"

2' 8' 16' 44' 110'

HVAC KEY:

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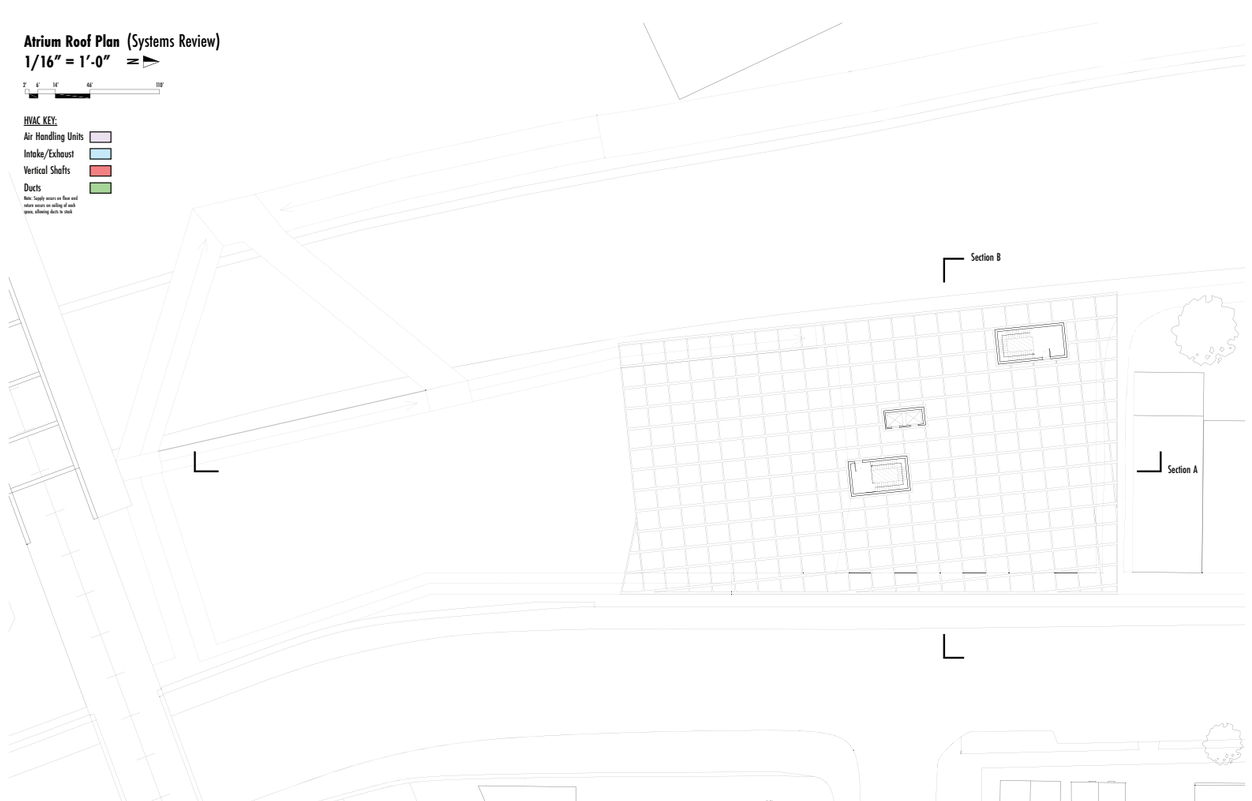
- Intake/Exhaust
- Vertical Shafts
- Ducts

Note: Supply occurs on floor and return occurs on ceiling of each space, allowing ducts to stack



Below Grade Plan

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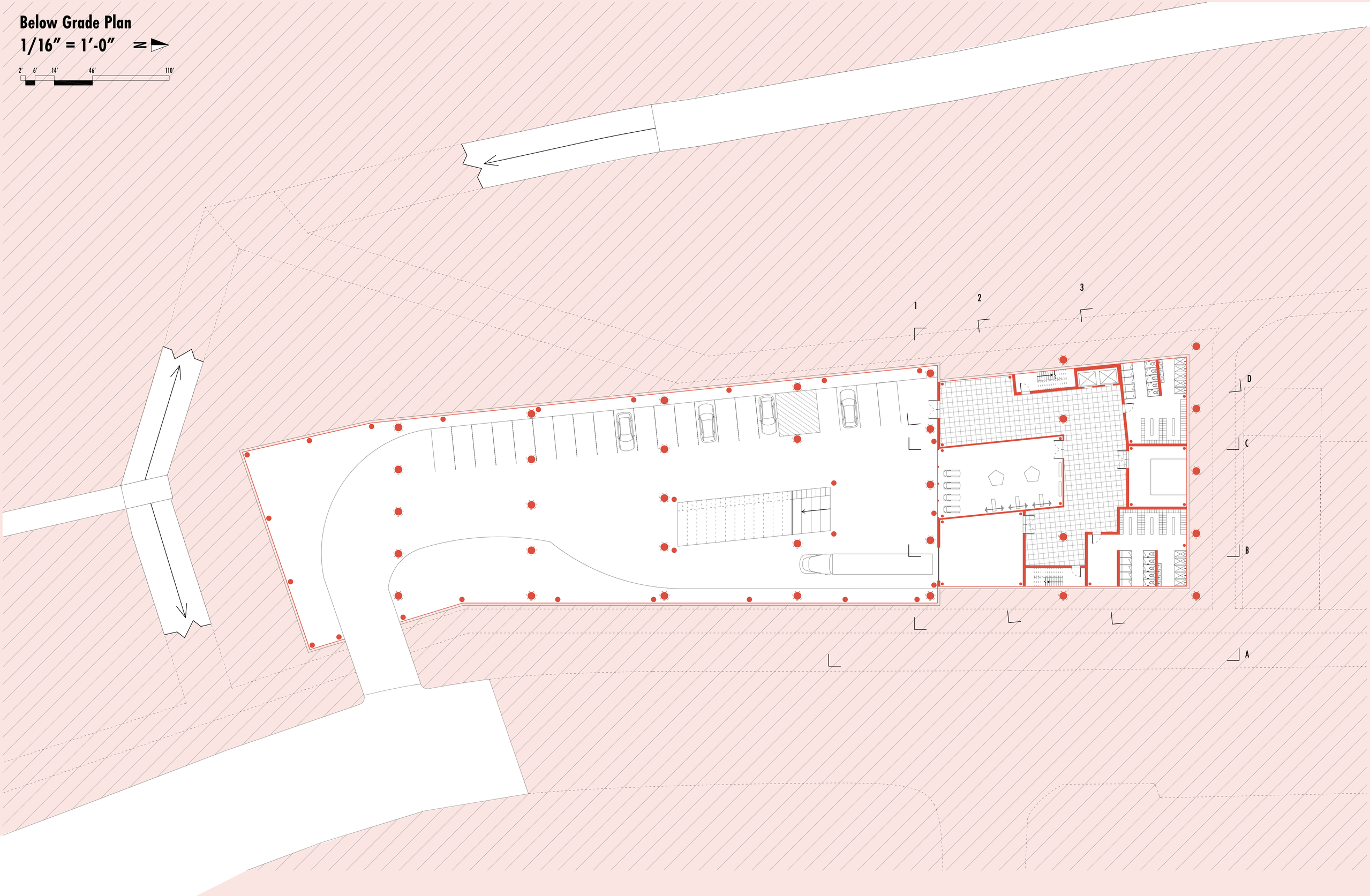
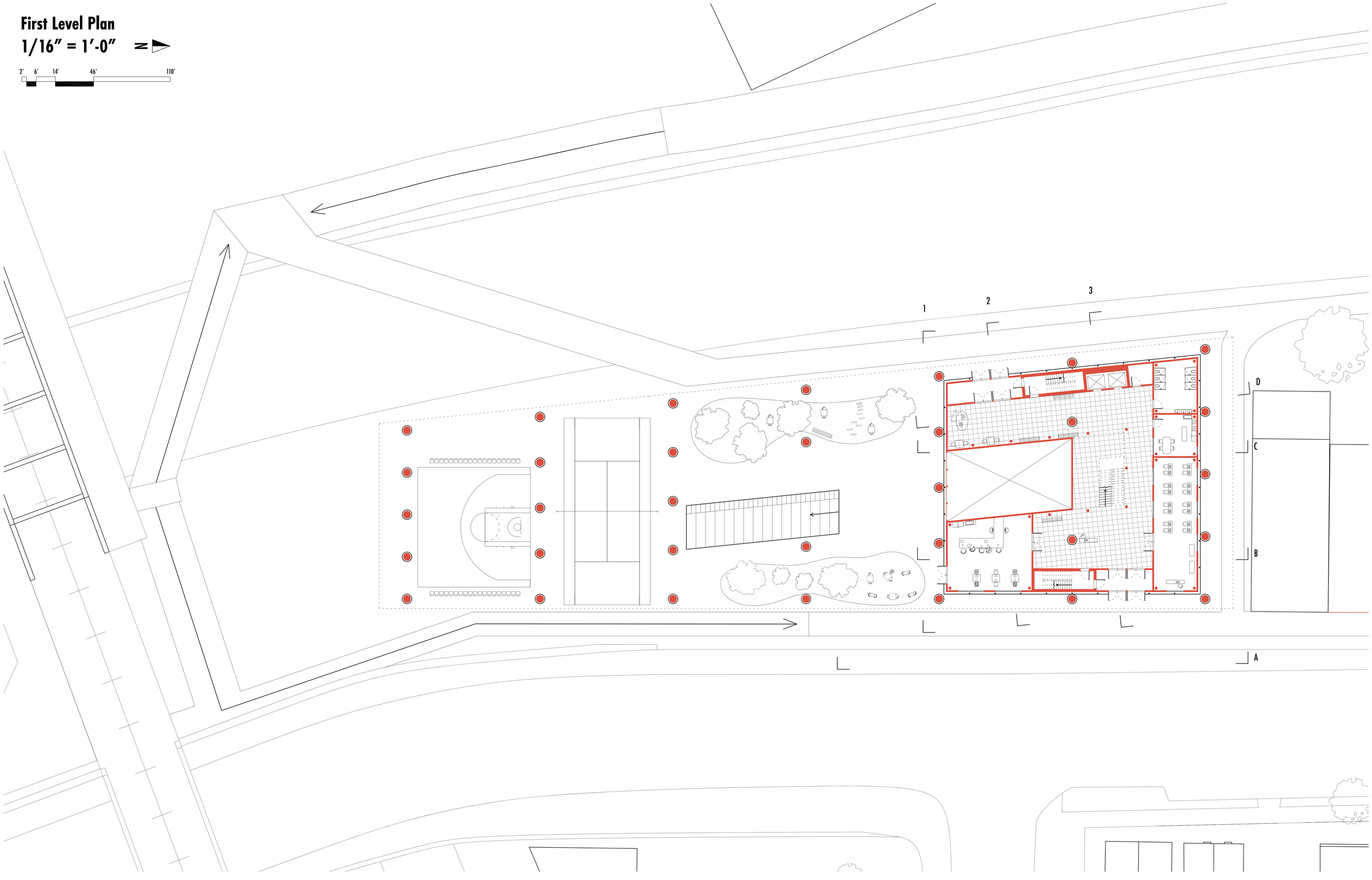


First Level Plan

1/16" = 1'-0"

N

2' 6' 14' 46' 110'



Second Level Plan

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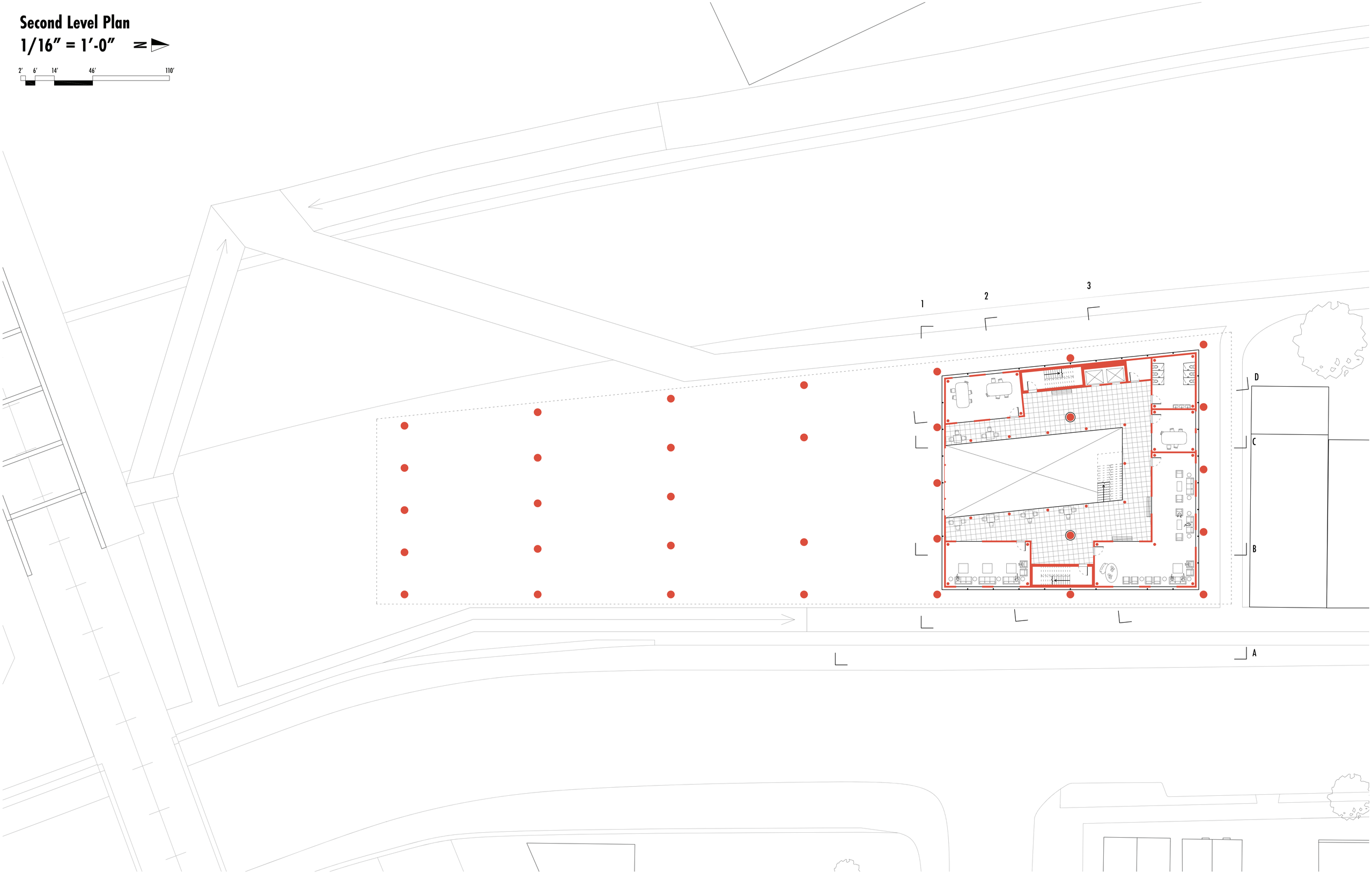
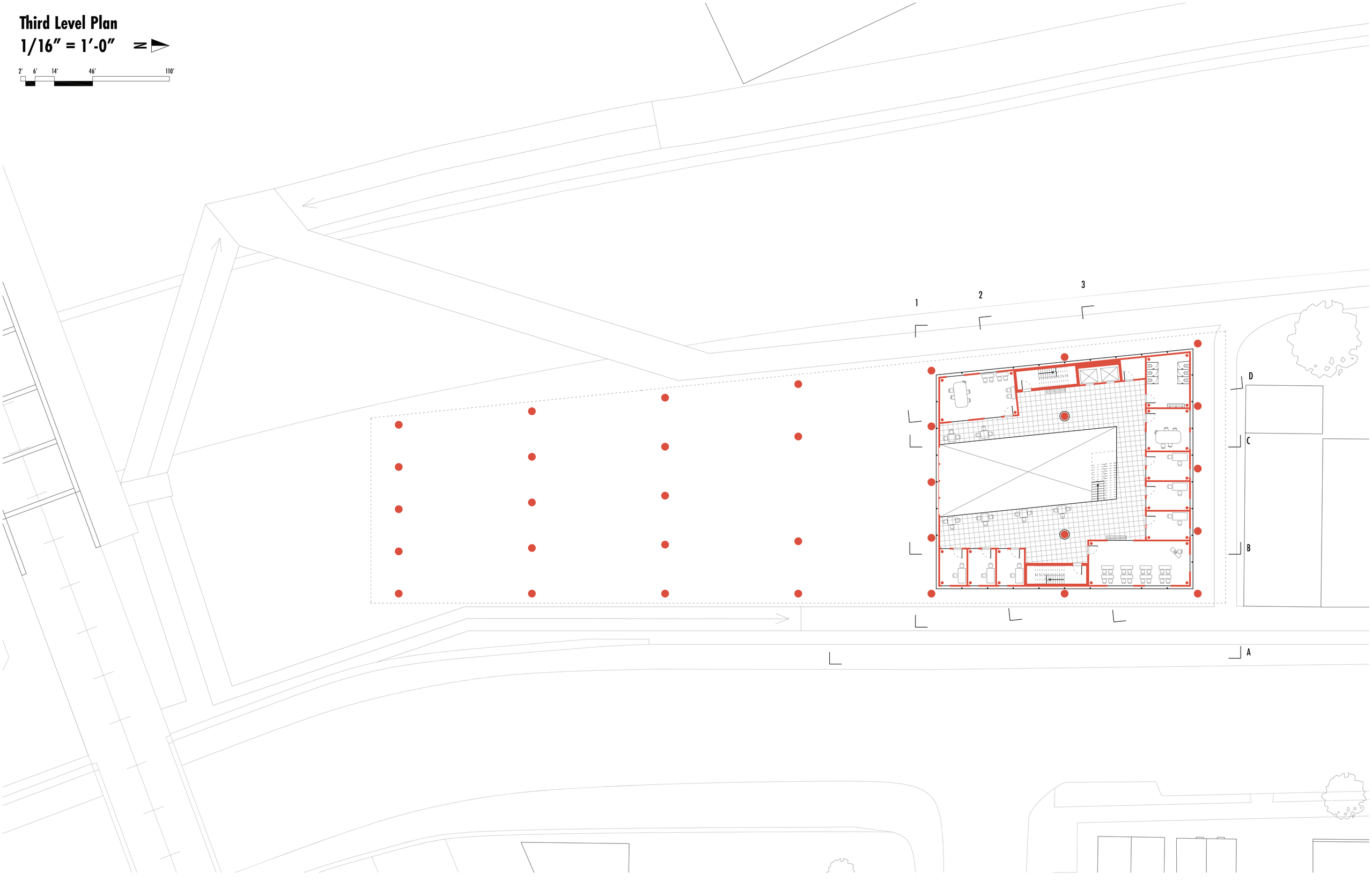


Third Level Plan

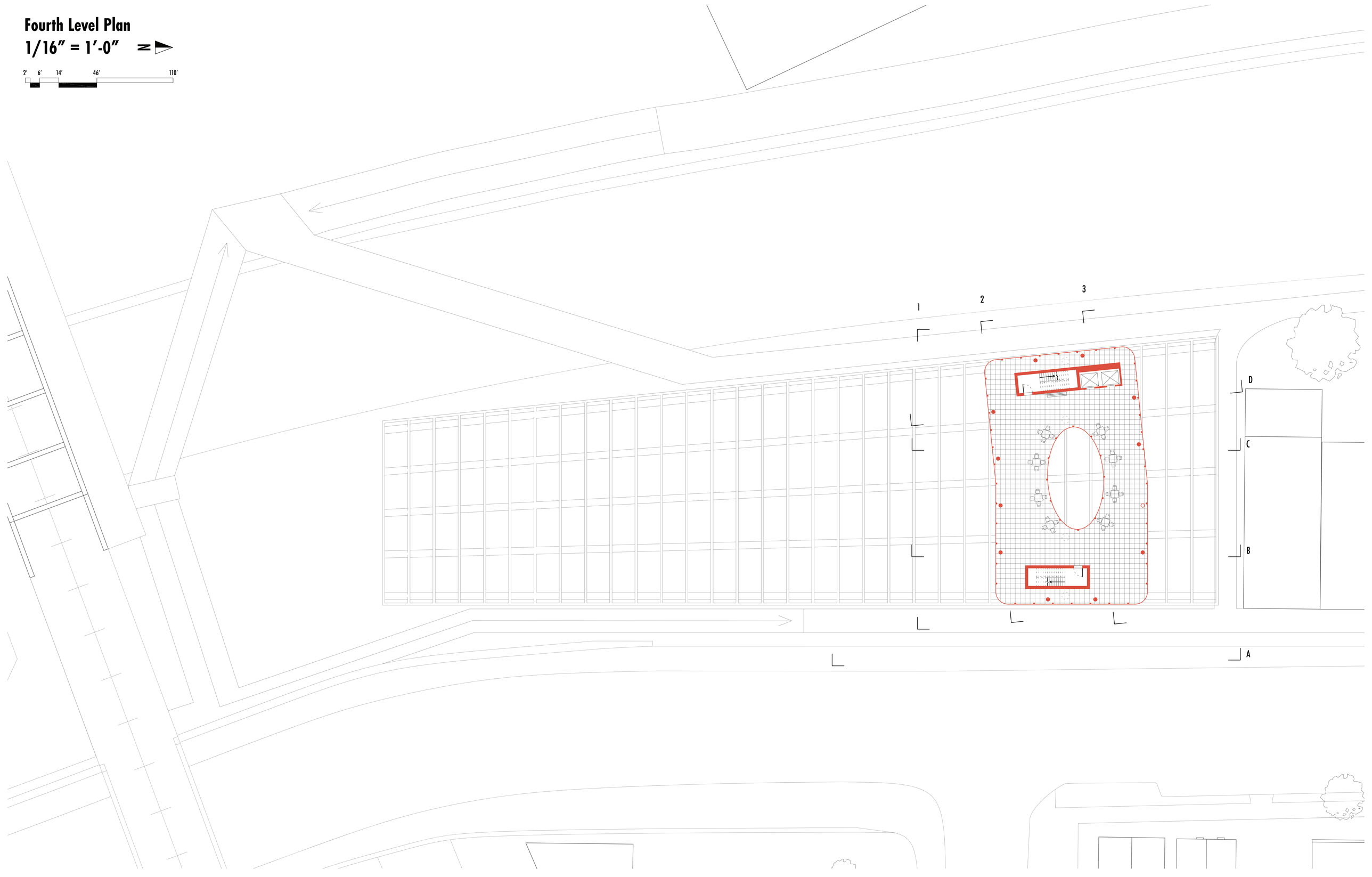
1/16" = 1'-0"

2' 6' 14' 46' 110'



Fourth Level Plan

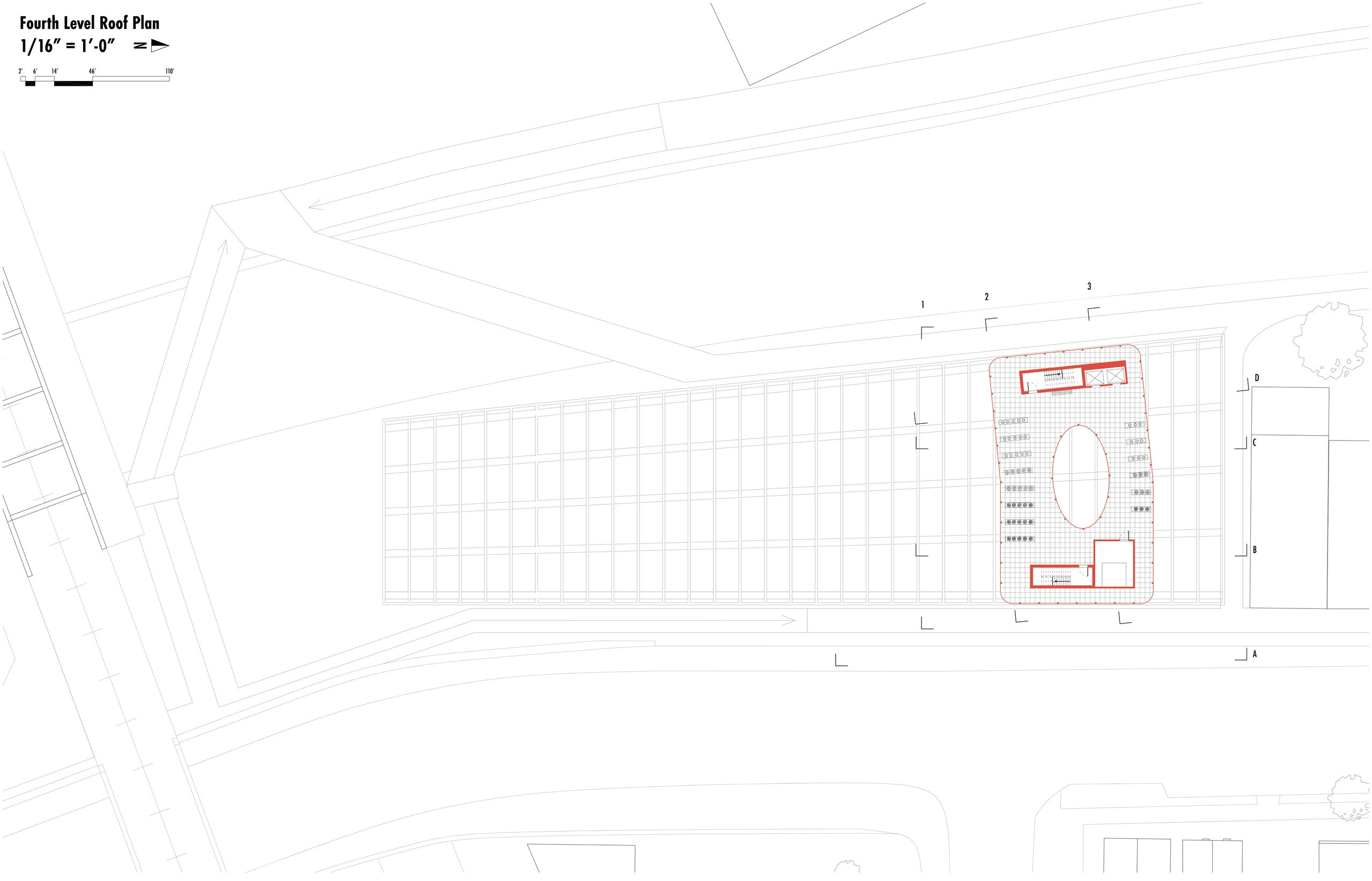
1/16" = 1'-0"

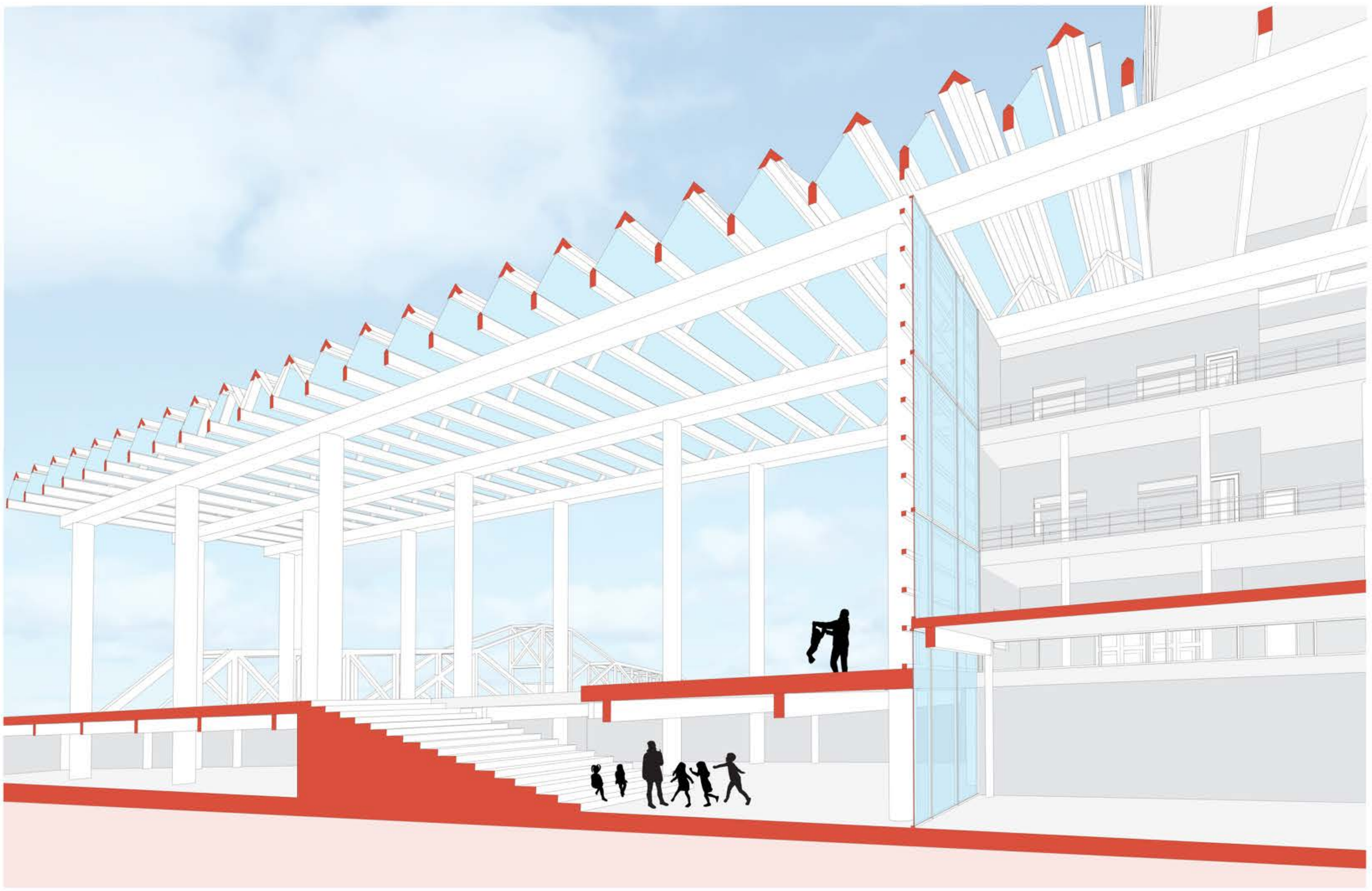


Fourth Level Roof Plan

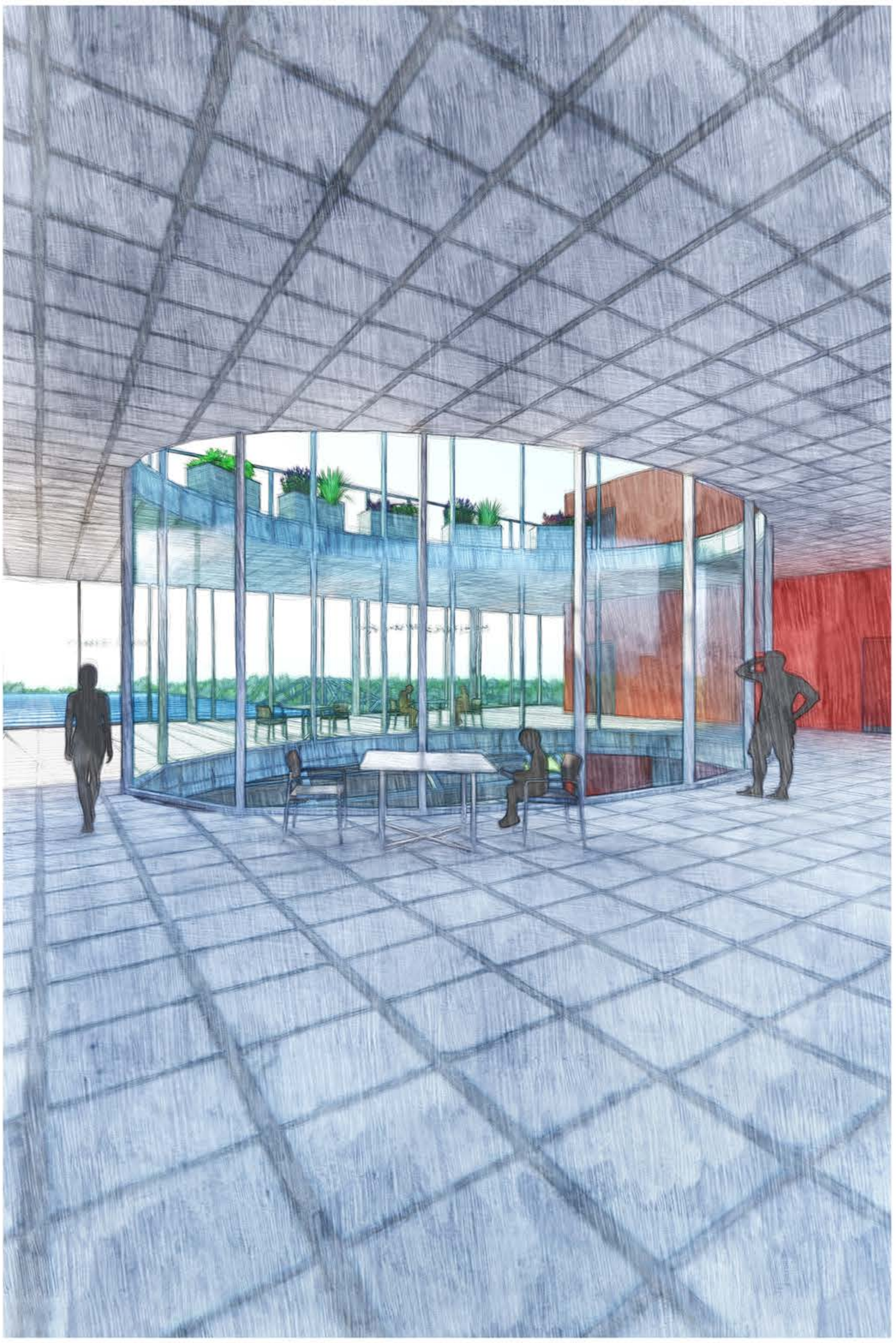
1/16" = 1'-0"

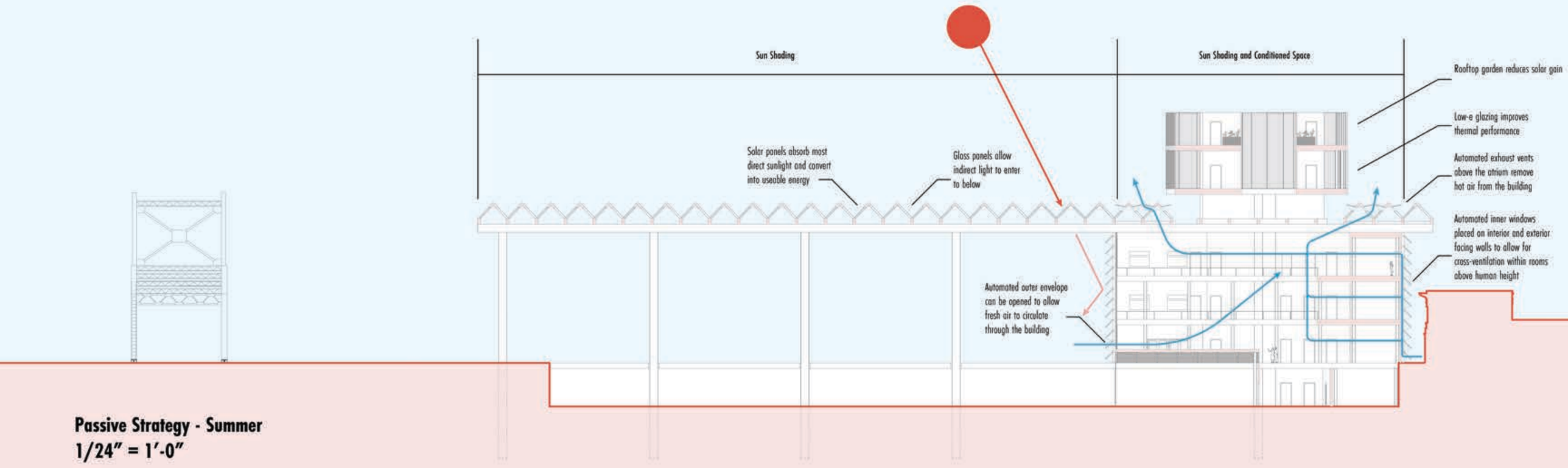
2' 6' 14' 46' 110'



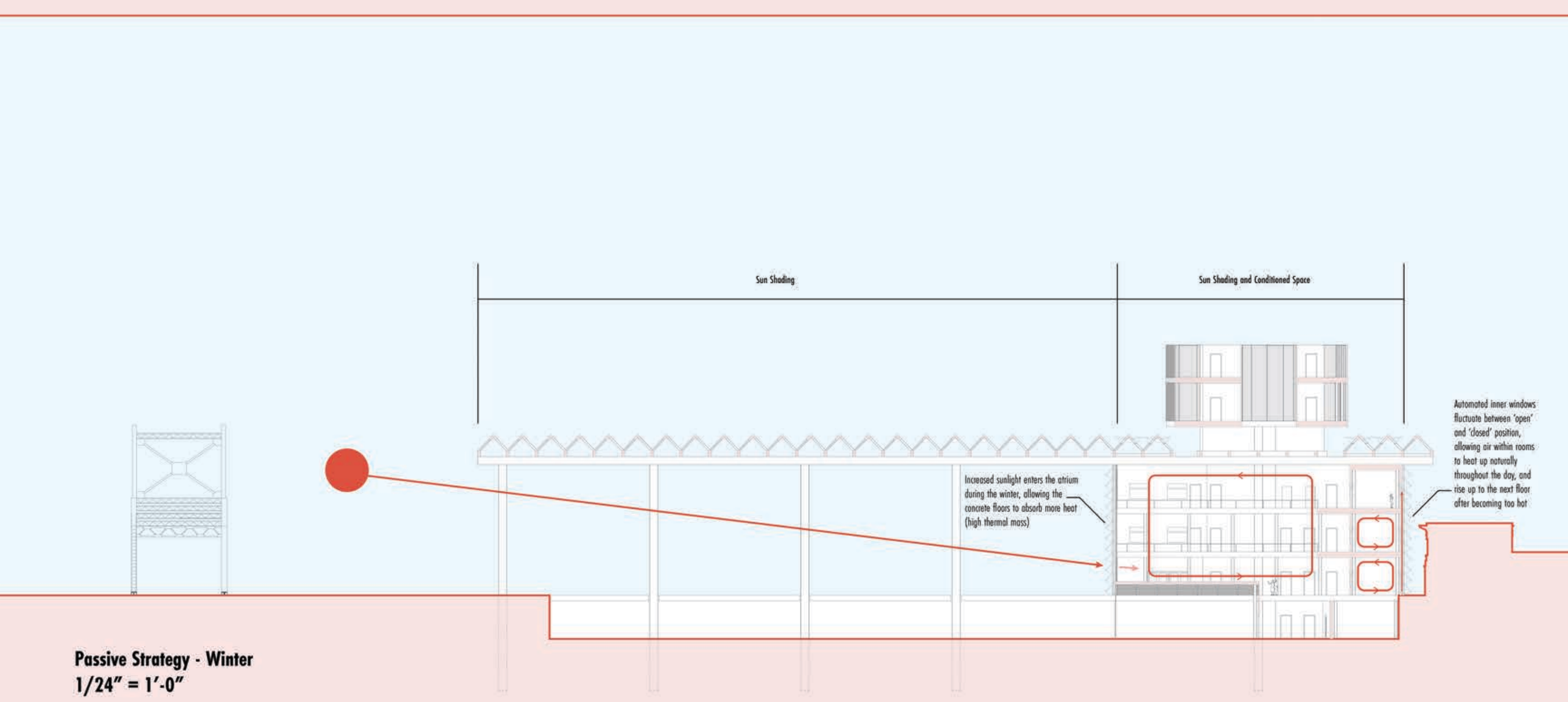


Section Perspective 1

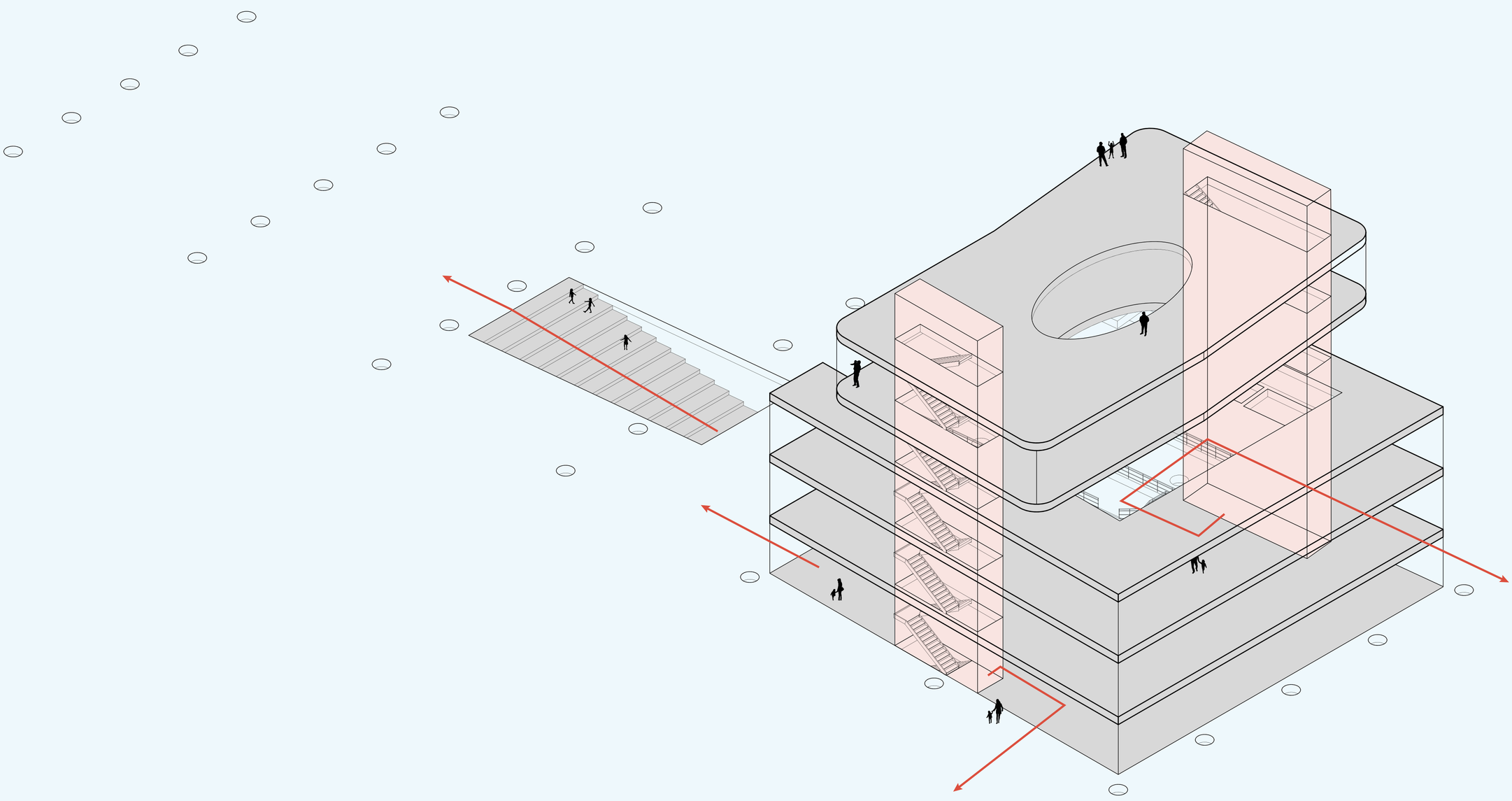




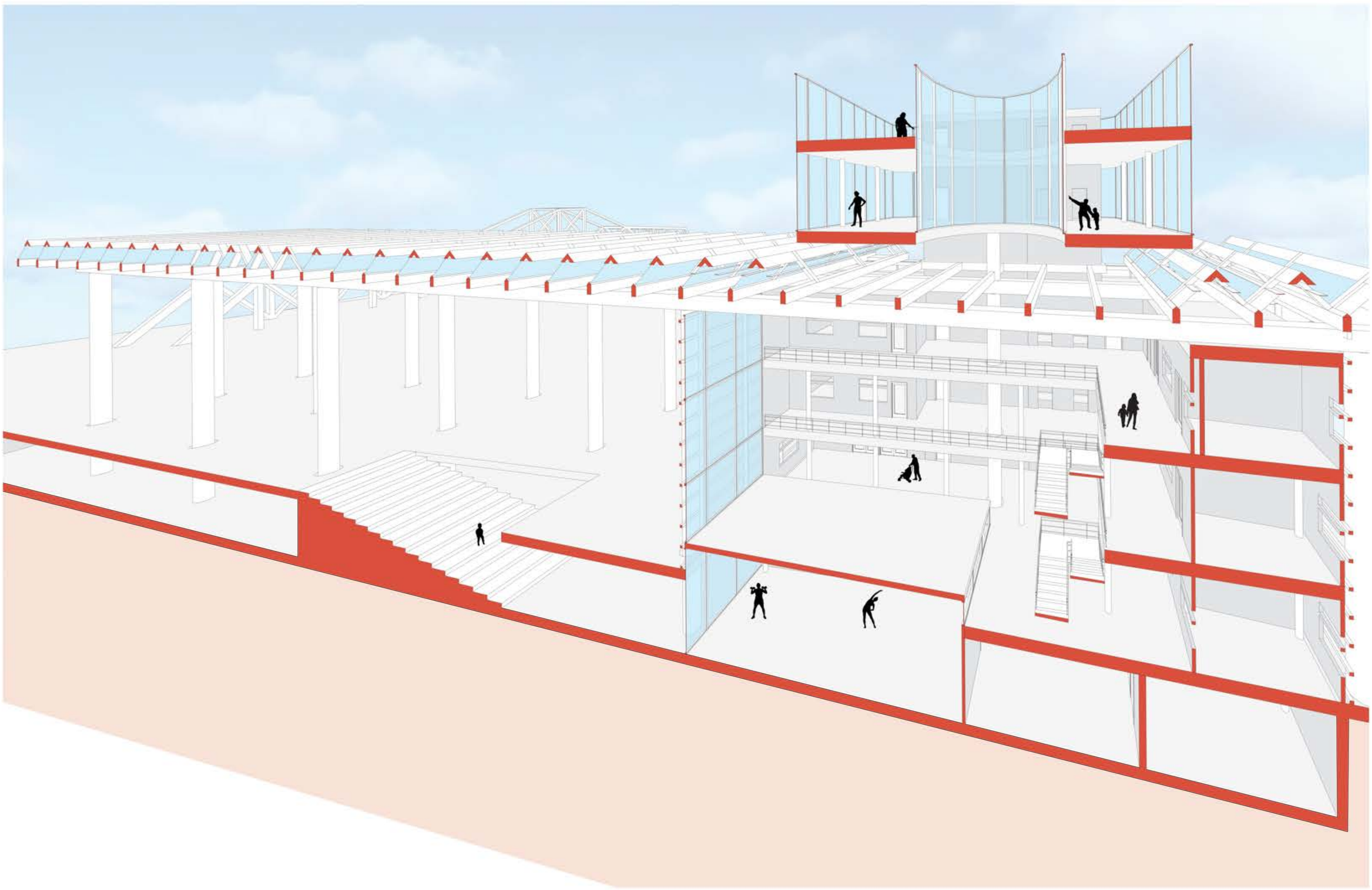
Passive Strategy - Summer
1/24″ = 1′-0″



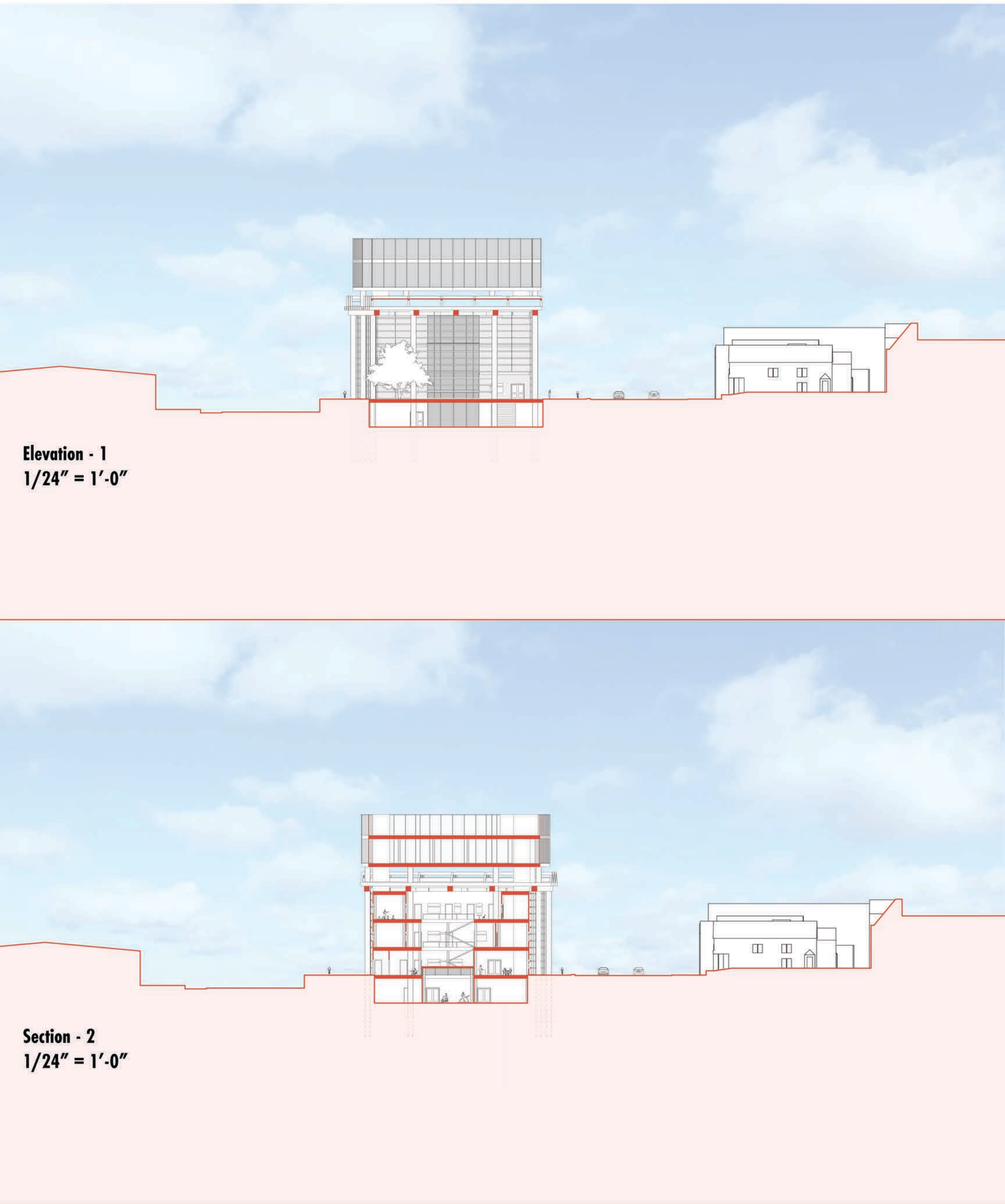
Passive Strategy - Winter
1/24″ = 1′-0″



Egress & Exiting Axonometric
1/16″ = 1′-0″

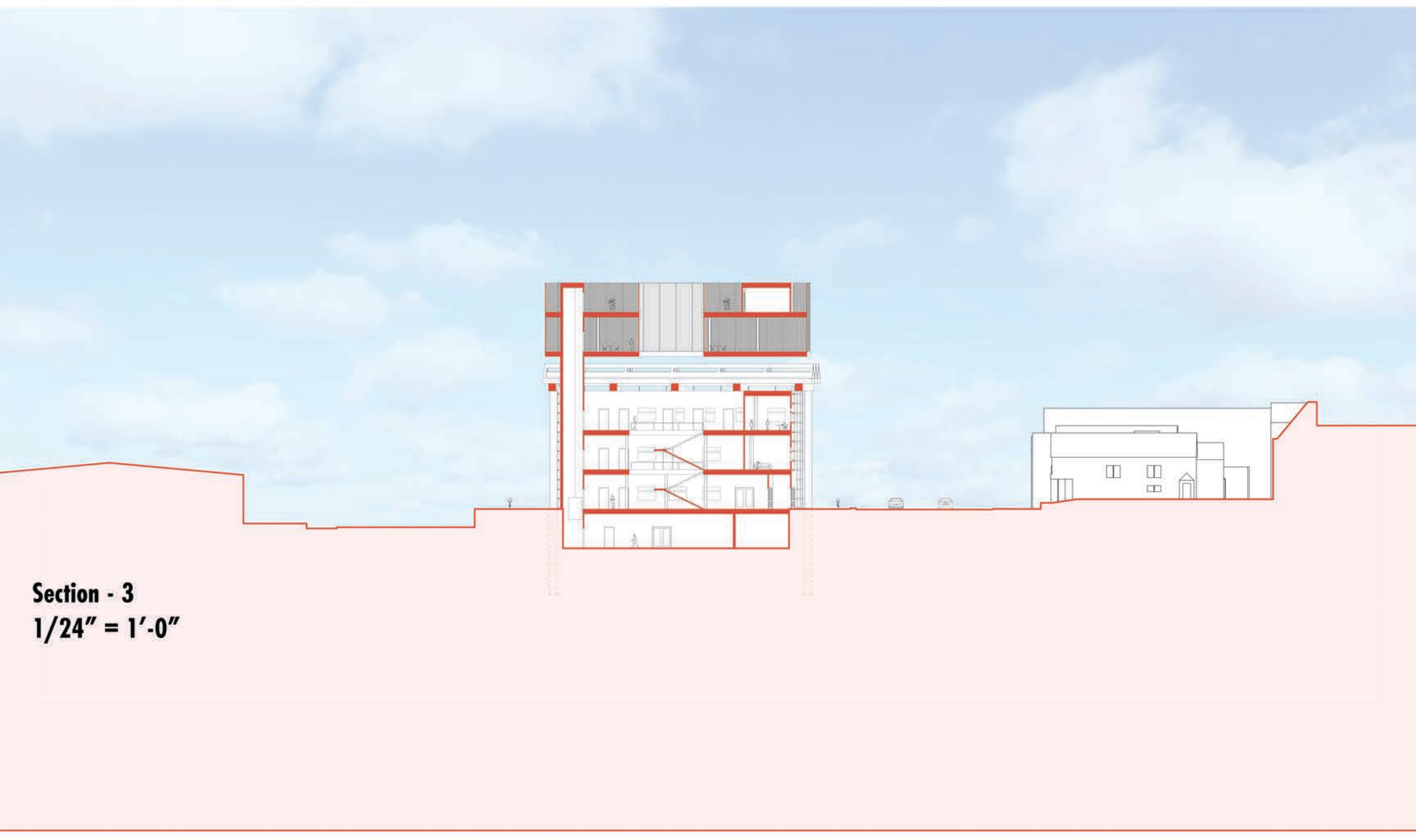


Section Perspective 2

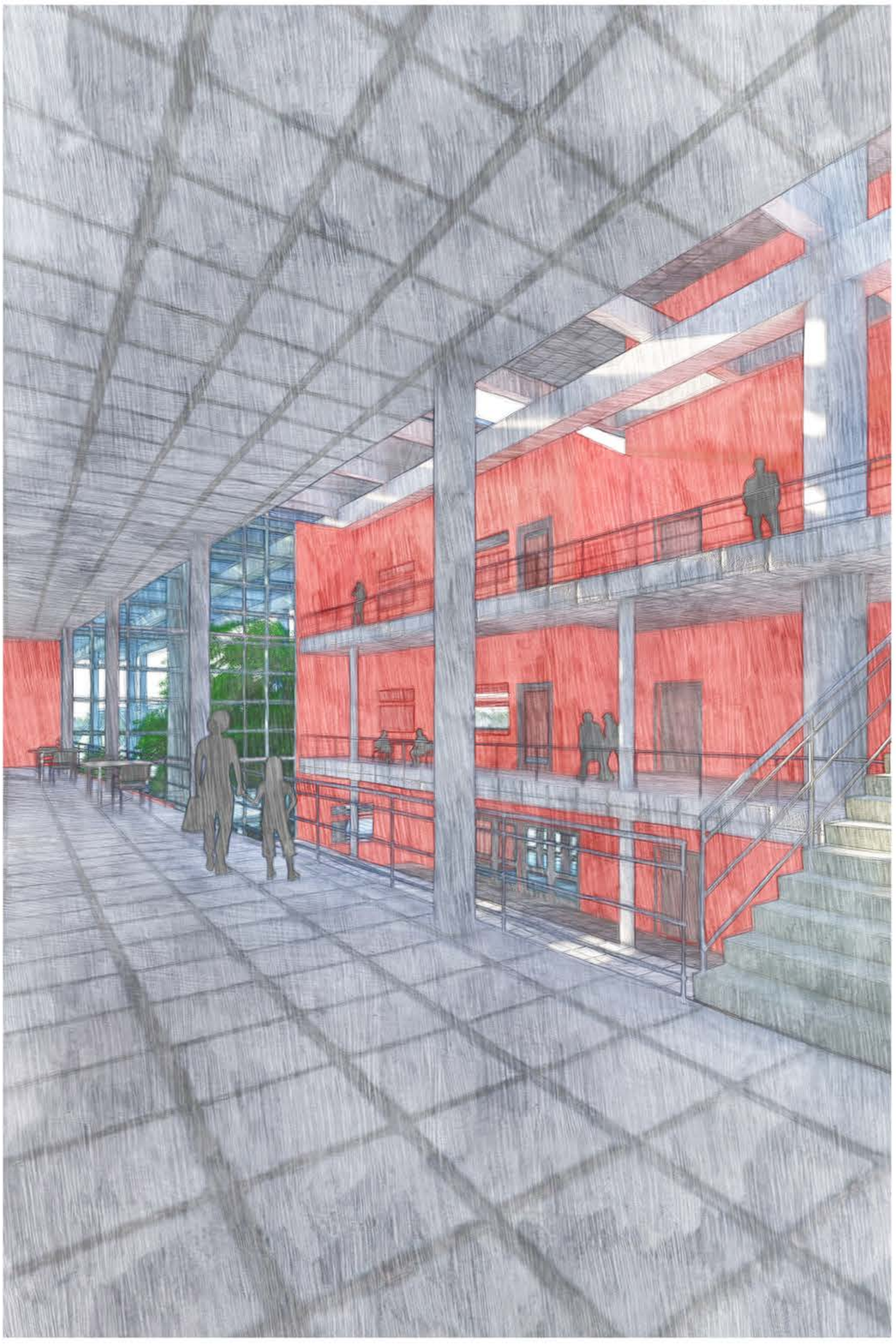


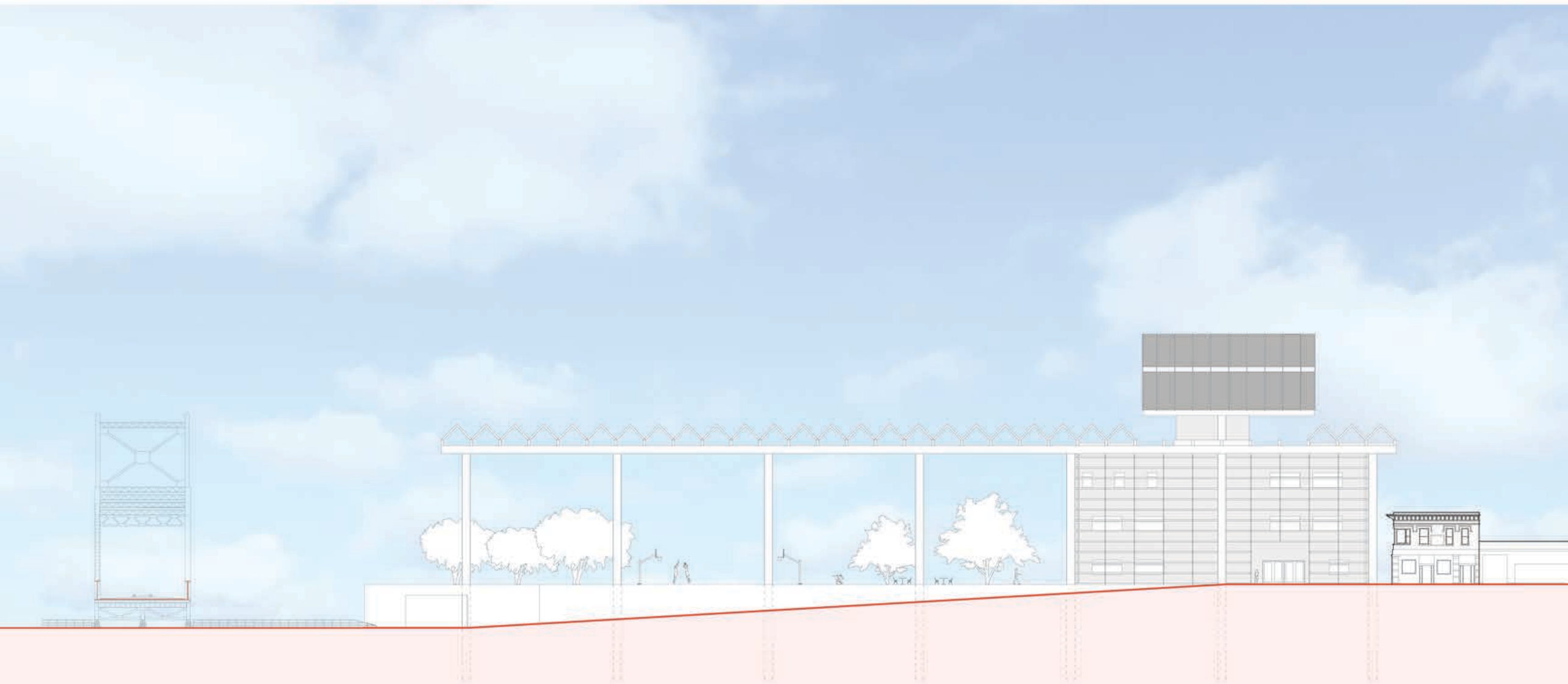
Elevation - 1
1/24″ = 1′-0″

Section - 2
1/24″ = 1′-0″

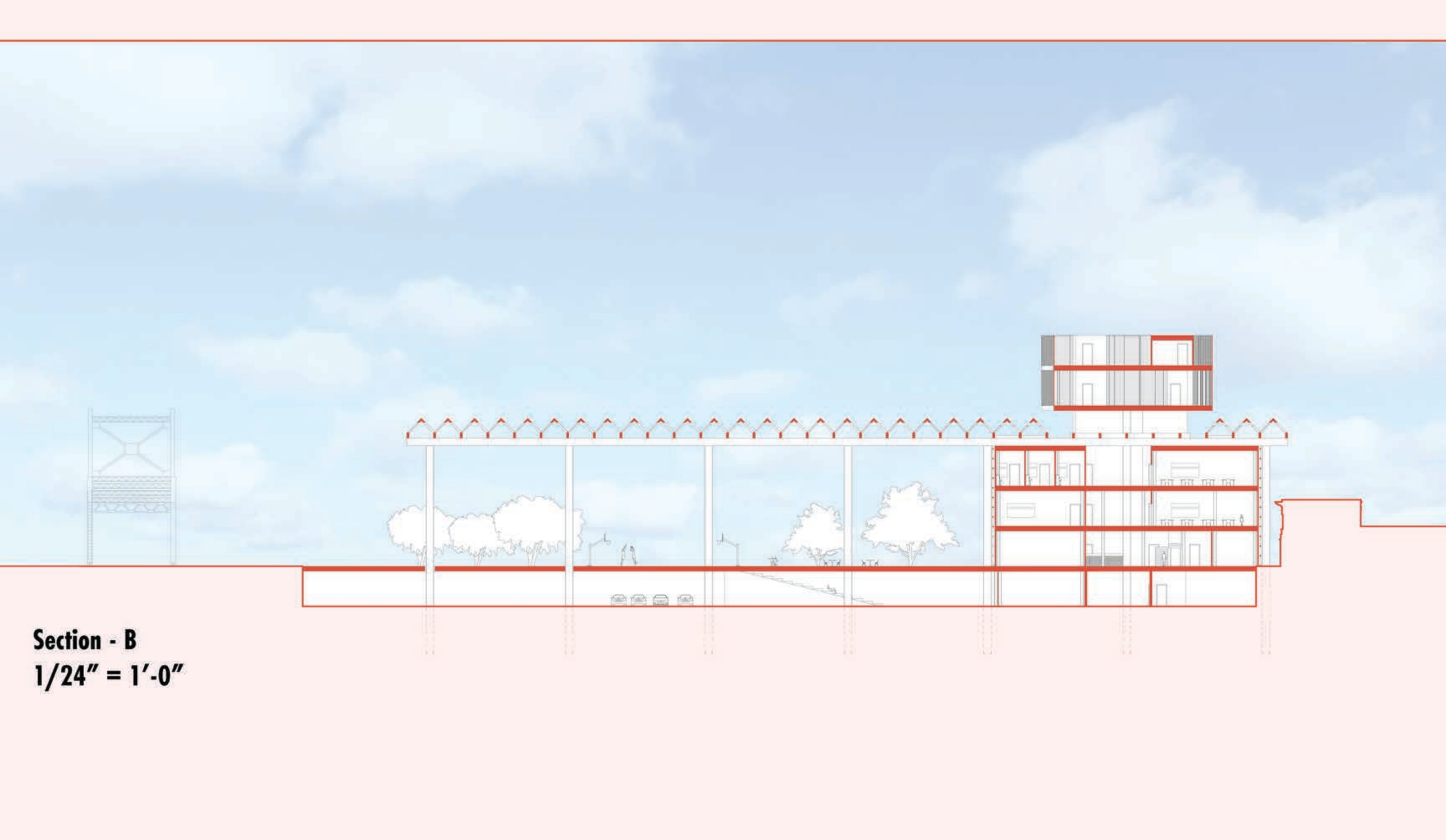


Section - 3
1/24″ = 1′-0″

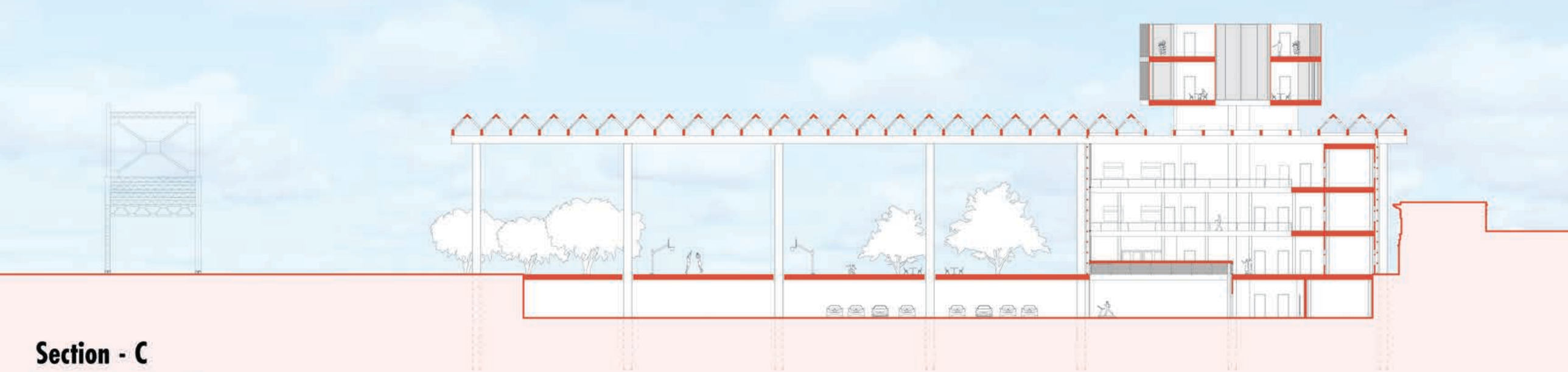


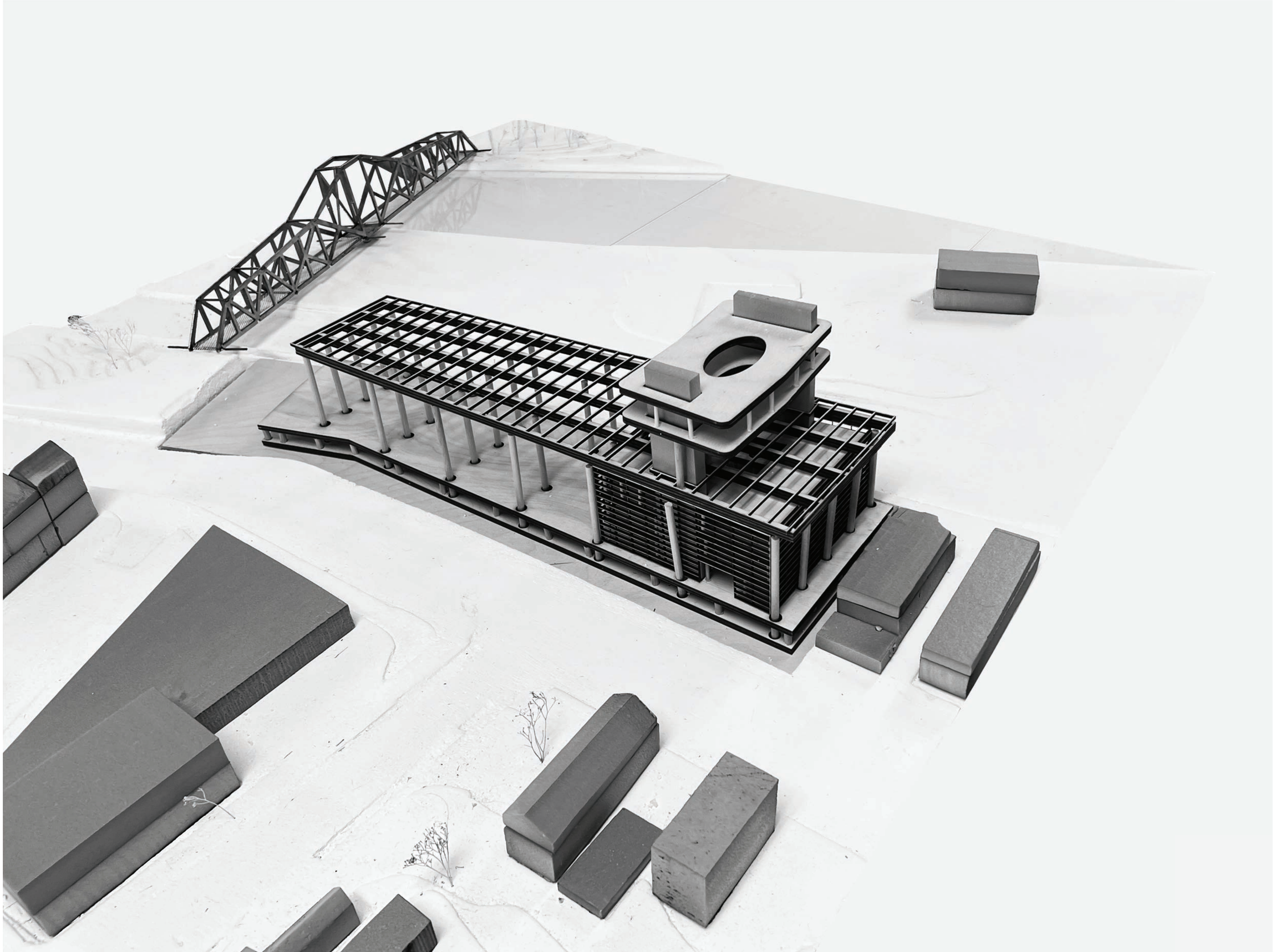


Elevation - A
1/24″ = 1′-0″



Section - B
1/24″ = 1′-0″



Section - C
1/24″ = 1′-0″

Section - D
1/24″ = 1′-0″