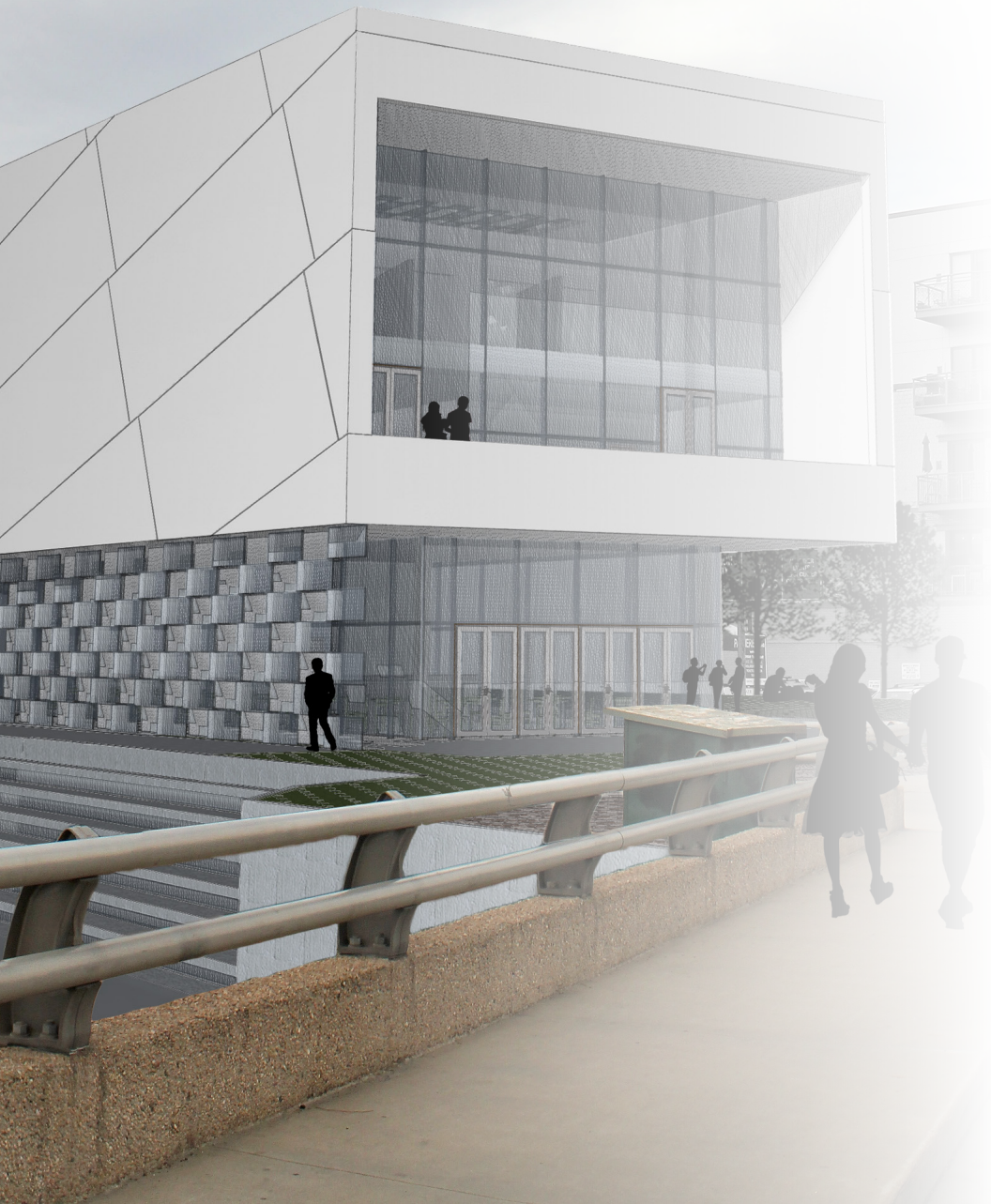


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Precedent Study

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NVLP : XHBT

AMORI NEBUTA HOUSE
MOLO ARCHITECTS DATE



DOMINUS WINERY
HERZOG & DEMERON

SPERONE WESTWATER GALERY
FOSTER + PARTNERS



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Nebuta House Museum
Molo Architects
Aomori, Japan
2011



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“A floor extension at one side of a Japanese-style house, usually facing a yard or garden and serving as passageway and sitting space”

Analysis



fig. 1 - Traditional Japanese House



fig. 2 - Nebuta Walkway

Sources

fig. 1 - <http://nanasunny.blogspot.com/2011/04/shethe-one-i-lovedpart-four.html>

fig. 2 - <http://www.detail-online.com/architecture/news/individual-twist-museum-and-cultural-centre-in-aomori-019368.html>

Plans/
Sections/
Elevations



fig. 1 - West Elevation



fig. 2 - Floor Plan



fig. 3 - South Elevation



fig. 4 - Section A



Sources

- fig. 1 - Photo by Iwan Baan
- fig. 2 - Molo Architects
- fig. 3 - Molo Architects
- fig. 4 - Molo Architects

The top of the ribbons are parallel to the building and the bottom part of each ribbon is twisted in different angles.

Analysis



fig. 1 - Outdoor walkway



fig. 2 - Walkway towards restaurant

Sources

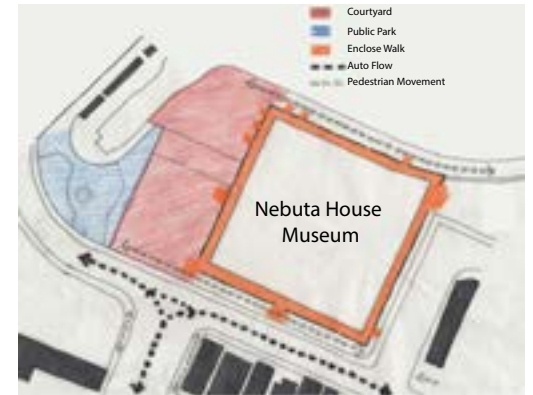
fig. 1 - Photo by Frank La Riviere

fig. 2 - Photo by Frank La Riviere

Analysis



fig. 1 - Courtyard View



Building relation to site



fig. 2 - View from South



fig. 3 - Harbor walkway



fig. 4 - View from East



Sources

fig. 1, 2, 3, 4 - Photos by Frank La Riviere

<http://designalmic.com/aomori-nebuta-house-museum-molo-with-ddt-arch-and-frank-la-riviere-architects-inc/aomori-nebuta-house-museum-by-molo-with-ddt-arch-and-frank-la-riviere-architects-inc-12/>

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Analysis



fig. 1 - Exterior



fig. 2 - Interior

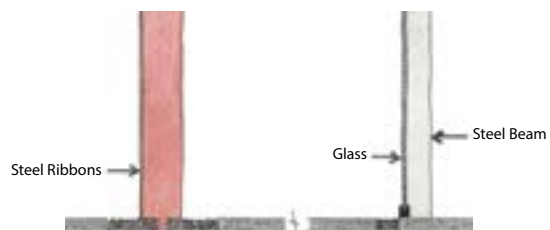


fig. 3 - Steel Ribbons Detail

Sources

fig. 1 - <http://www.detail-online.com/architecture/news/individual-twist-museum-and-cultural-centre-in-aomori-019368.html>

fig. 2 - Photo by Frank La Riviere

<http://designalamic.com/aomori-nebuta-house-museum-molo-with-ddt-arch-and-frank-la-riviere-architects-inc/aomori-nebuta-house-museum-by-molo-with-ddt-arch-and-frank-la-riviere-architects-inc-12/>

fig. 3 - Iwan Baan

The Dominus Estate Winery
Herzog & de Meuron
Yountville, California
1997



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Images



fig. 1 - View from the main road looking toward the winery.



fig. 2 - Past the gate, again looking toward the building.



fig. 3 - In the covered entry looking toward the mountains.



fig. 4 - Close up view of the gabion system.

Images



fig. 1 - The tank room (where the wine is fermenting).



fig. 2 - The barrel cellar.



fig. 3 - Stairs from the ground level to the offices.



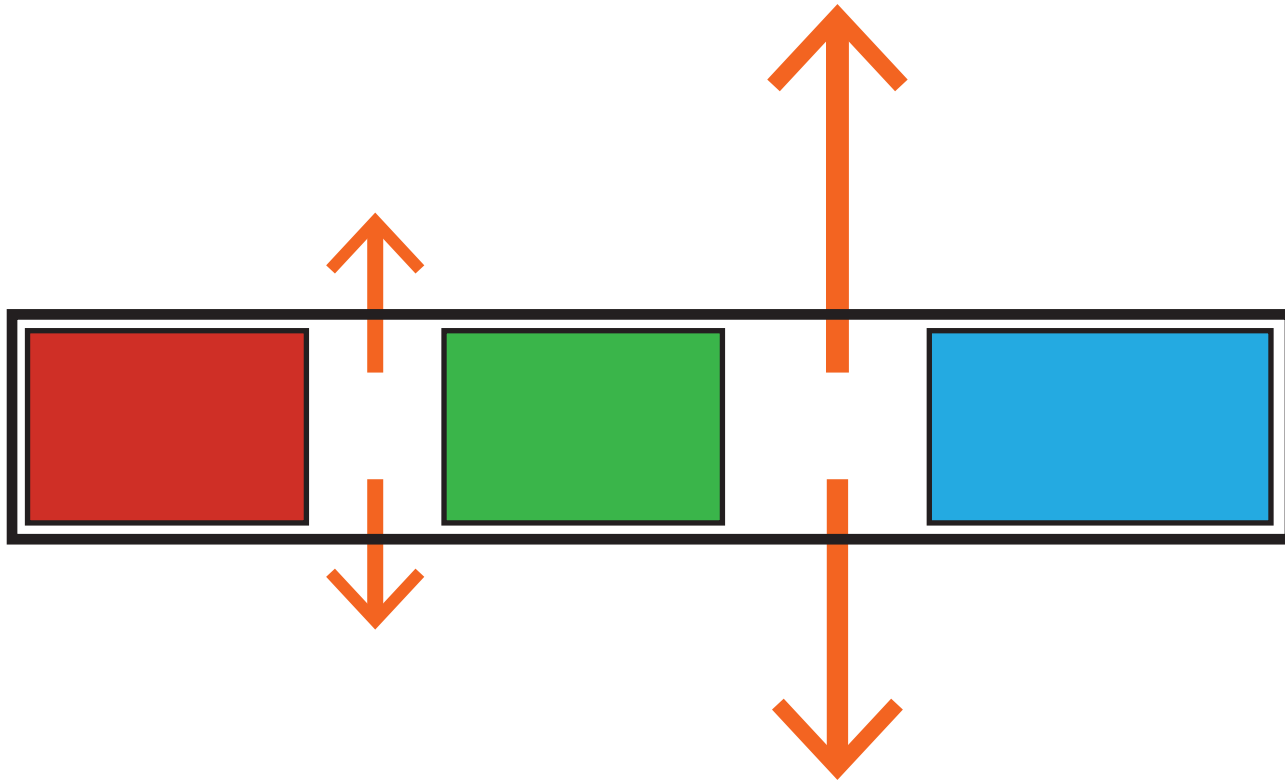
fig. 4 - Upper level walkway between the offices and tank room.

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Organization of Space

In plan the winery is organized as boxes inside of a box.

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Plans/
Sections/
Elevations

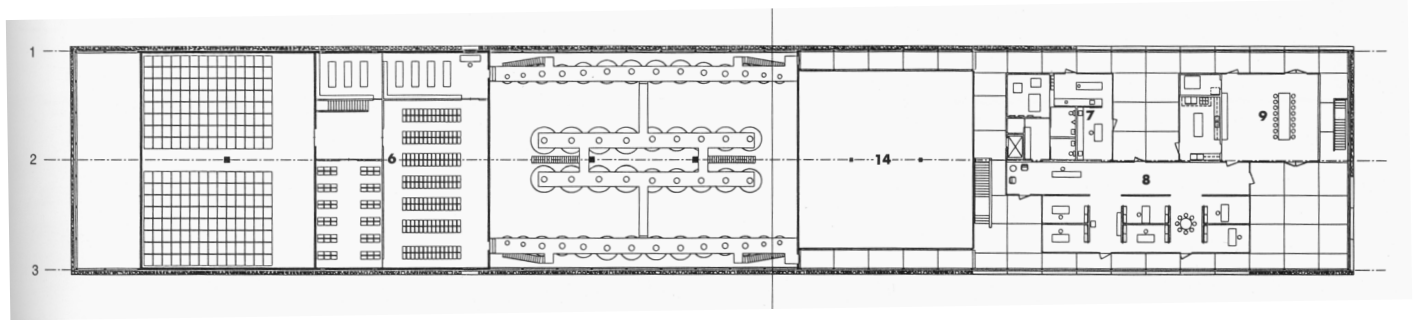


fig. 2 - Upper level plan.

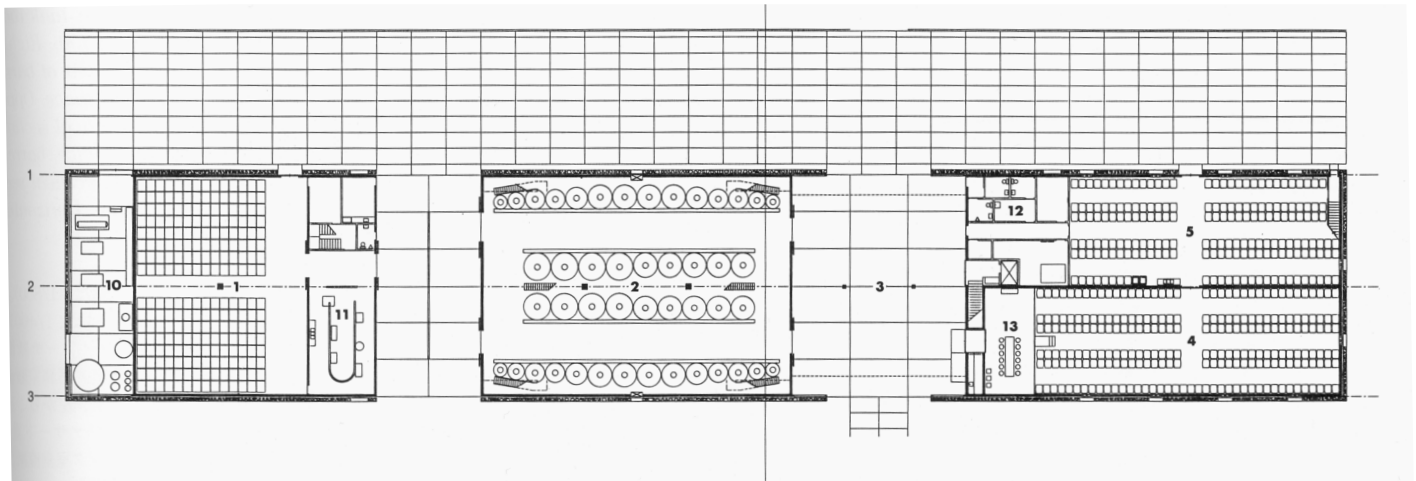
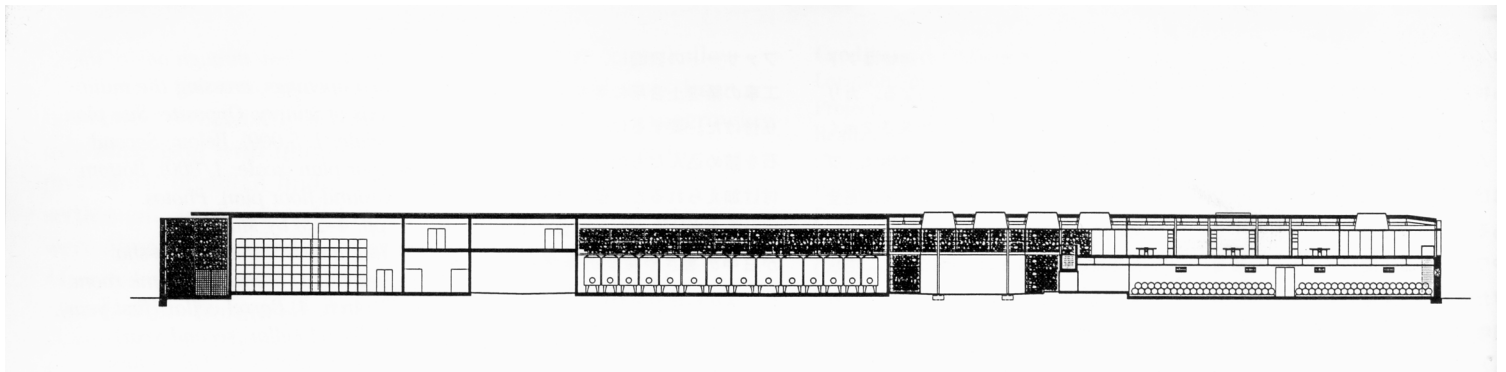
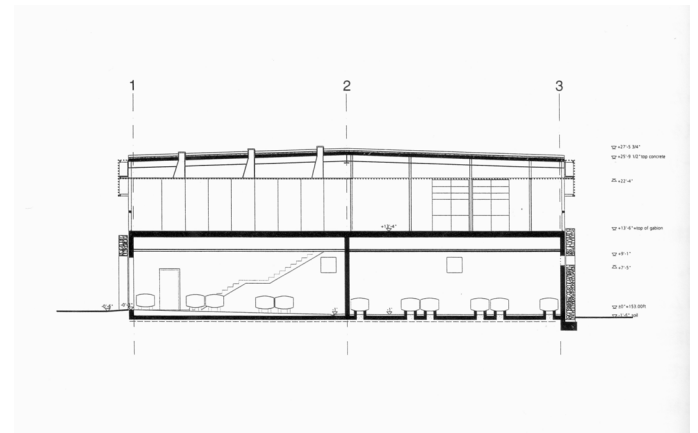
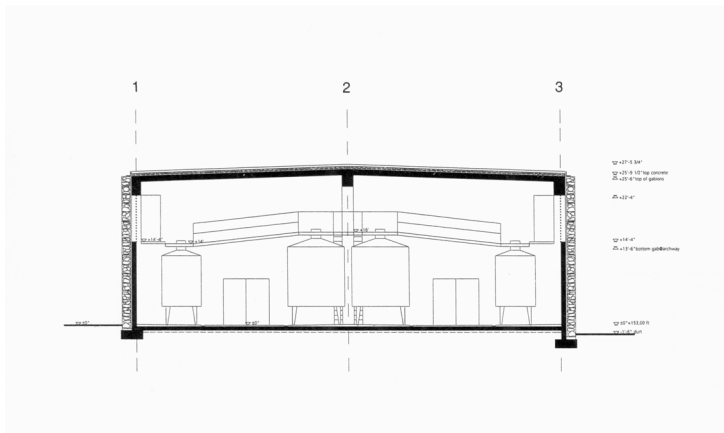


fig. 1 - Ground level plan.

**Plans/
Sections/
Elevations**



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Light

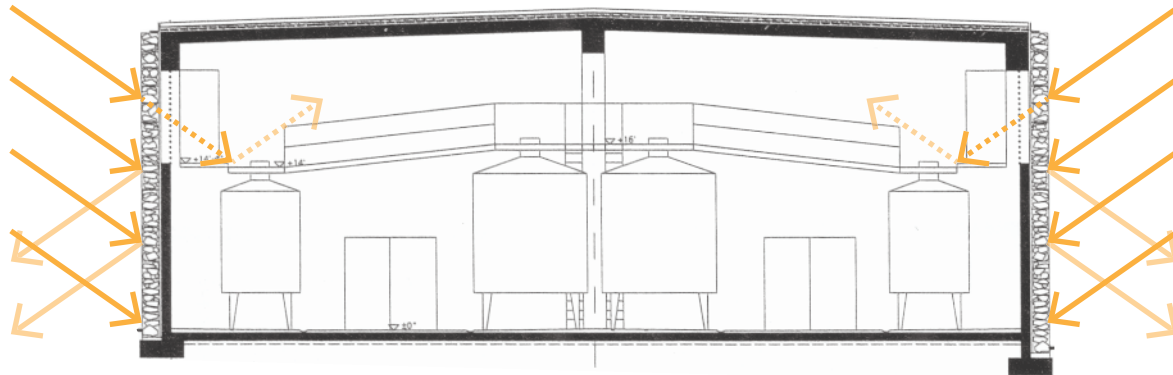


fig. 1 - Sunlight admitted during the daylight hours.

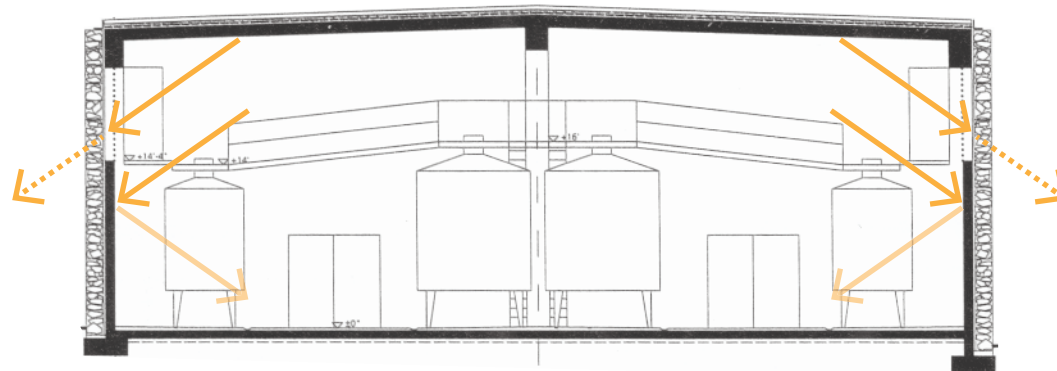


fig. 2 - Artificial light expelled after dark.

Light

Sunlight is not admitted on the ground level. On the upper level, the use of larger rocks in the gabion system allows filtered light to enter the upper hallways through the gaps between the rocks. At night the building's artificial light seeps out of the building through the same gaps between the larger rocks

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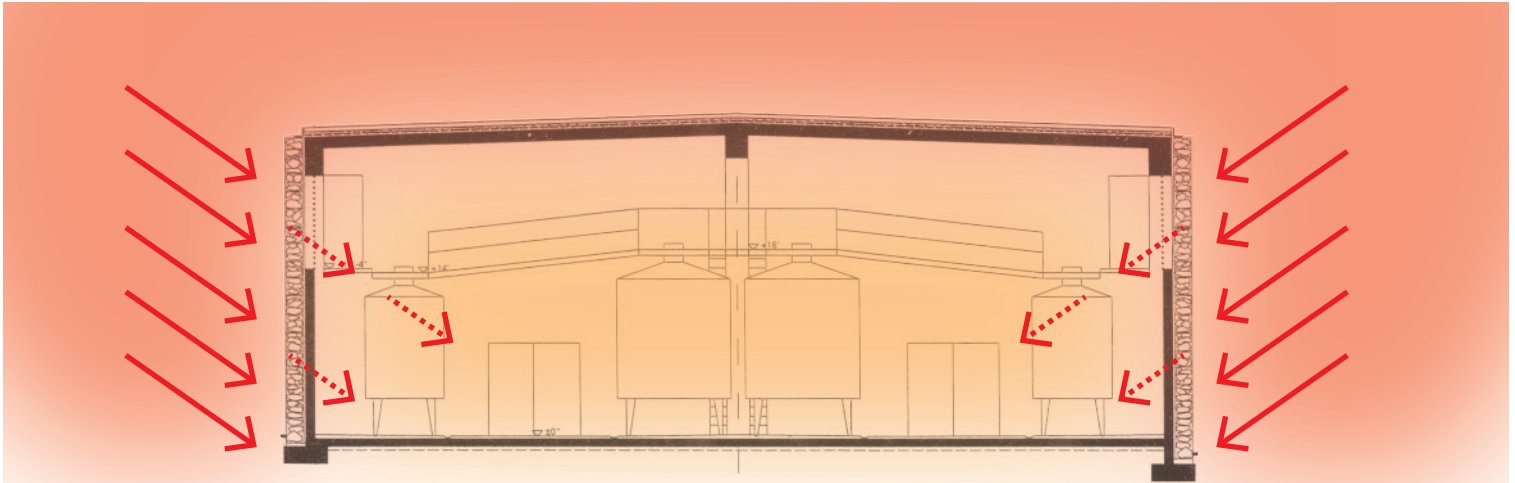
Skin


fig. 1 - Heat transfer during the day.

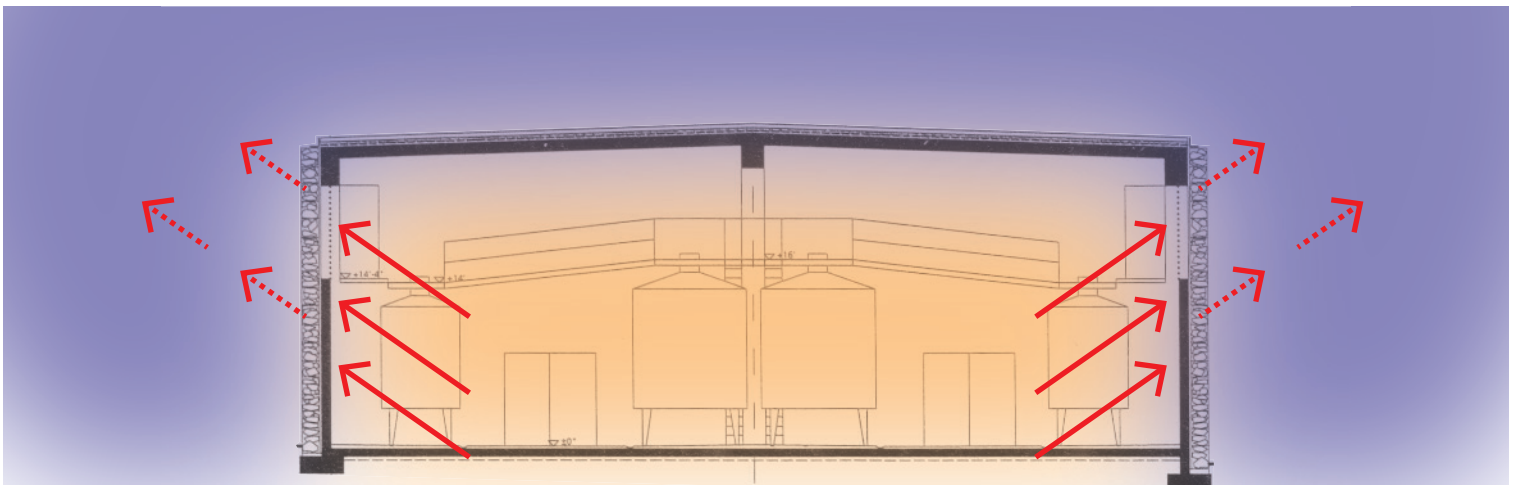
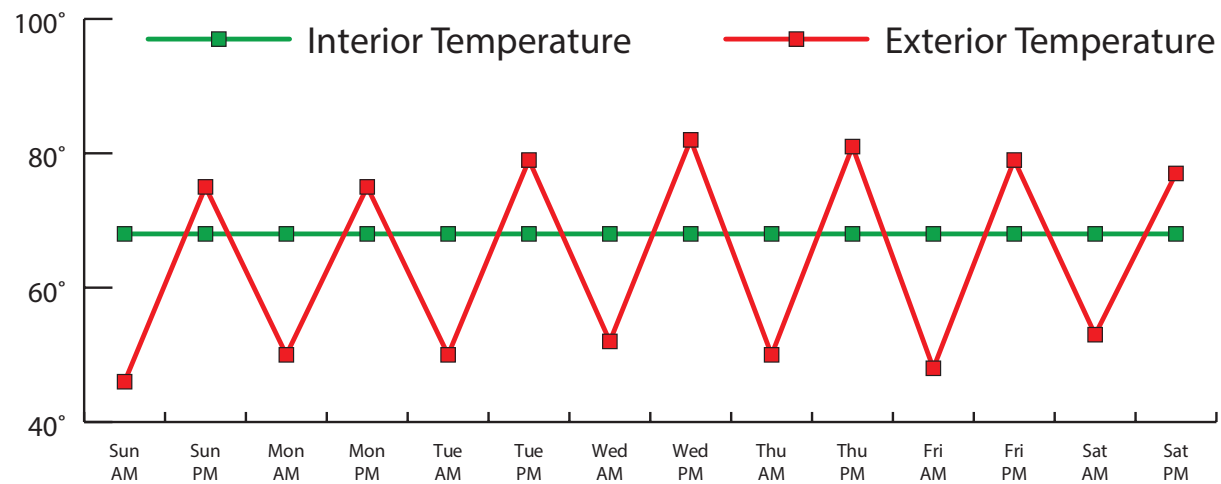


fig. 2 - Heat transfer at night.



The gabion system's effect

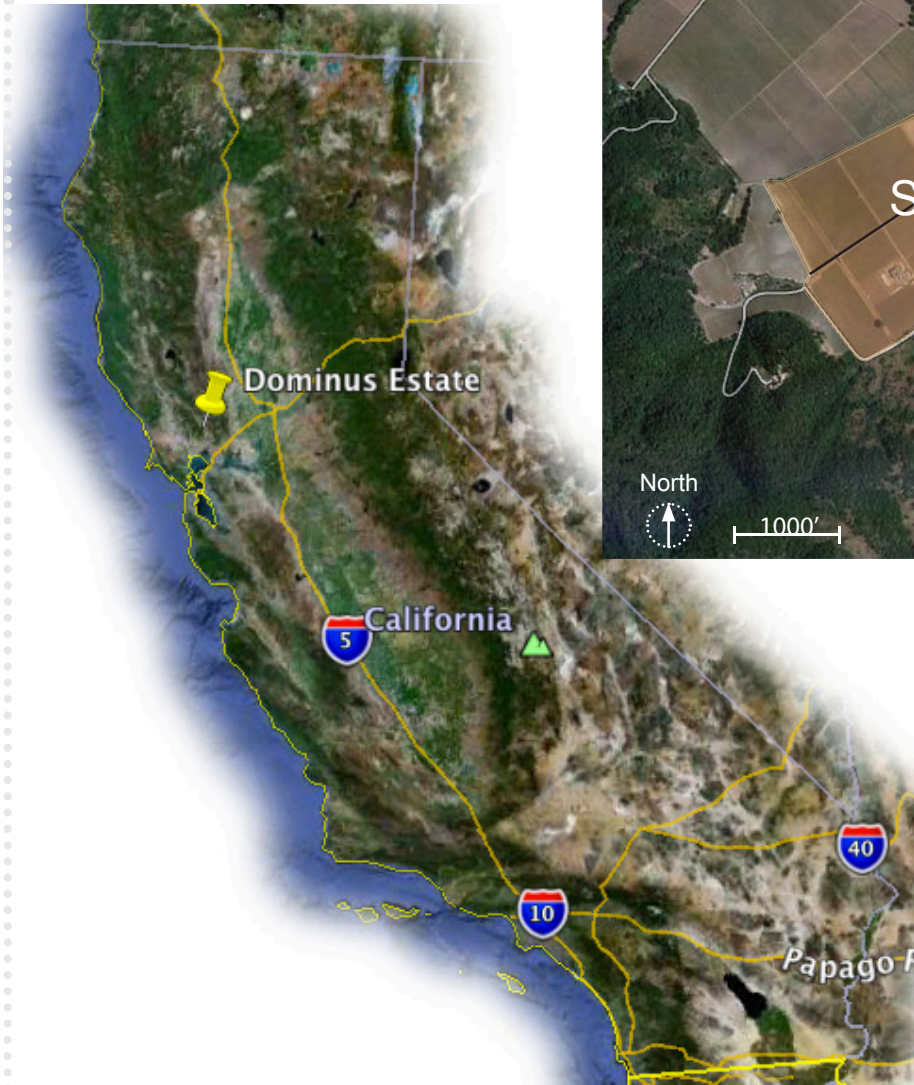
The walls in the gabion system have a very large thermal capacity. Because of this large thermal capacity, the gabion walls absorb heat during the day and release it slowly at night. The resulting effect evens out the temperature difference between the day's temperature extremes.

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Interaction with the City

The winery is located outside of town on a highway. The winery is not trying to invite people into the site; pedestrian access is not encouraged, and the site is accessible only to employees and invited guests.

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SPERONE WESTWATER GALLERY

THE BOWERY, NYC

FOSTER + PARTNERS



COMMERCIAL ART GALLERY
OFFICES
LIBRARY
ART STORAGE

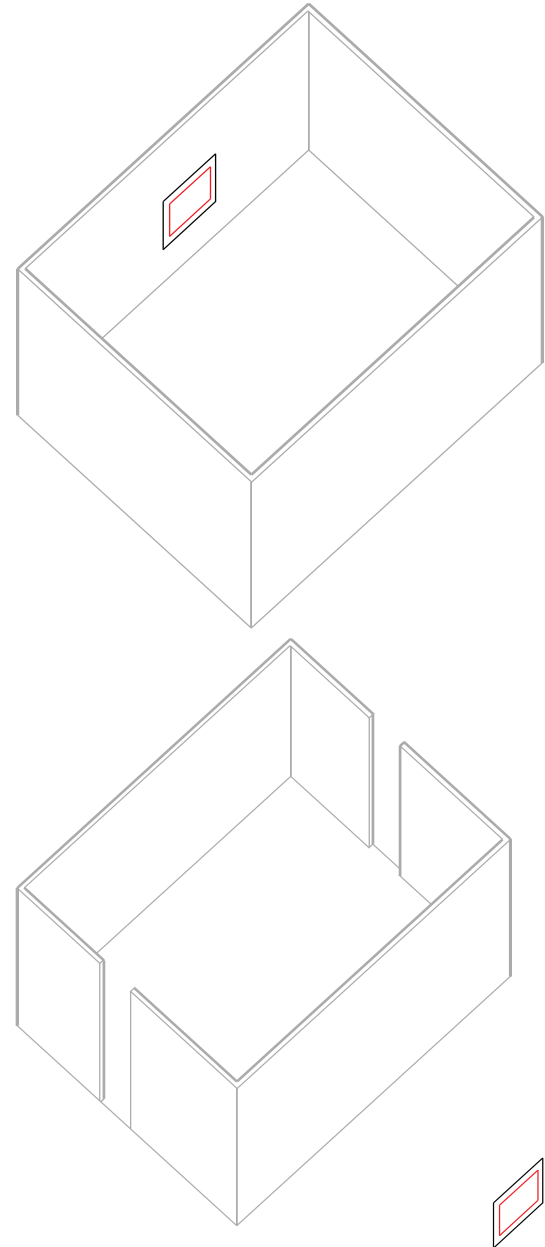
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ANNALYSIS: NVLP : XHBT



WHAT IS THE RELATIONSHIP BETWEEN THE ENVELOPE AND THE EXHIBIT?

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ARCHITECTURE OF EXHIBITION

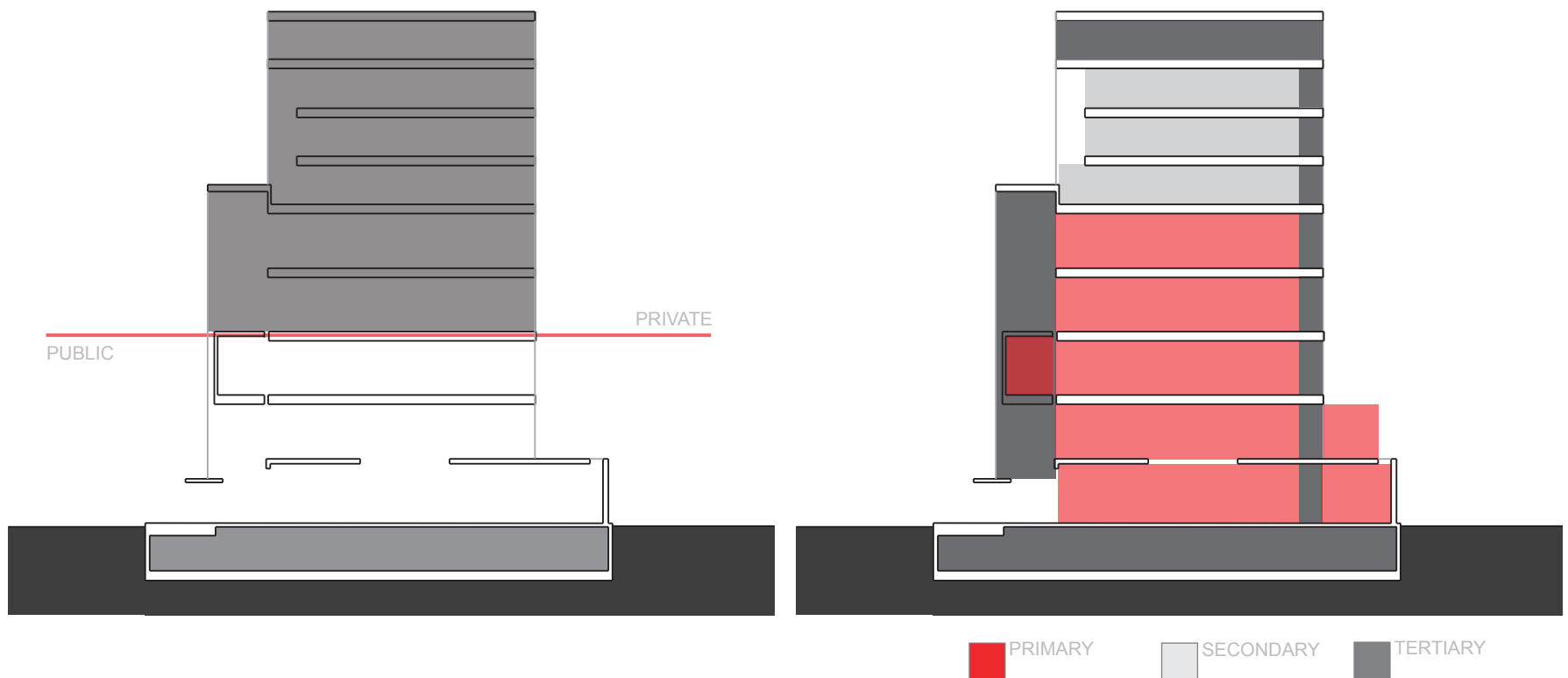
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SPACIAL ORGANIZATION: NVLP : XHBT

PUBLIC/PRIVATE

PRIMARY/SECONDARY



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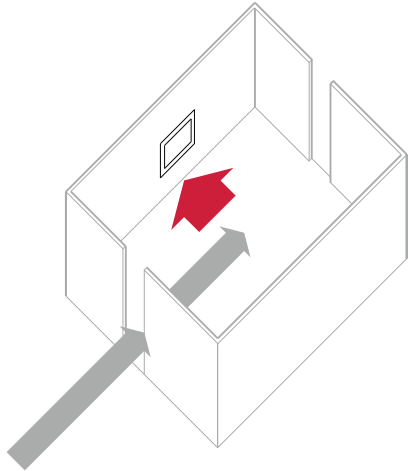
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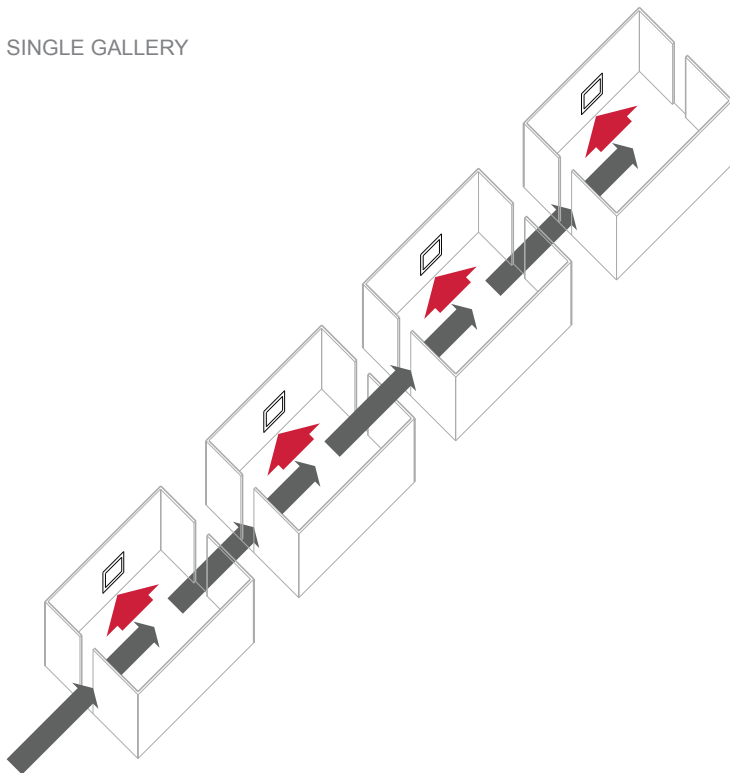
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SPACIAL ORGANIZATION: NVLP : XHBT

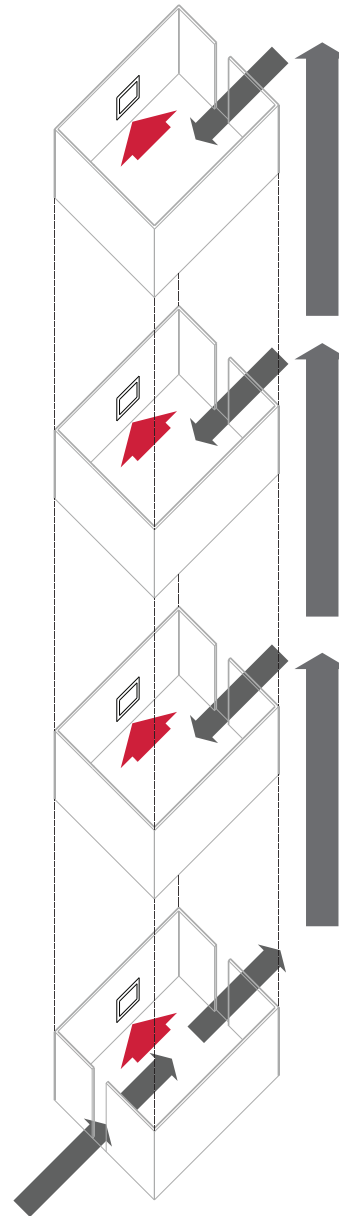
GALLERY CIRCULATION DEVELOPMENT



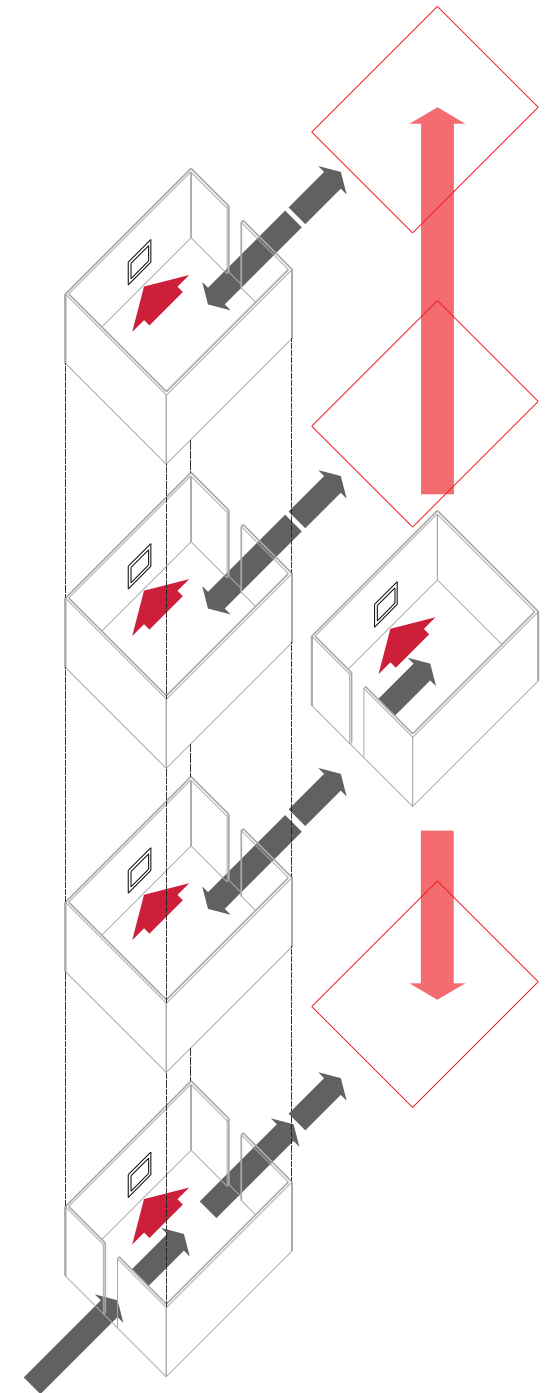
SINGLE GALLERY



MULTIPLE LINEAR



MULTIPLE VERTICAL



VERTICAL GALLERY AS CIRCULATION

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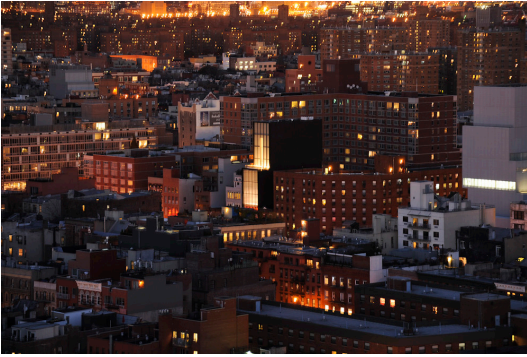
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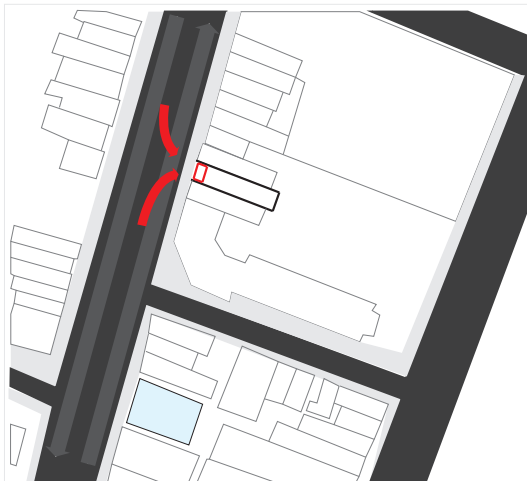
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CIRCULATION: NVLP : XHBT

SITE CONTEXT

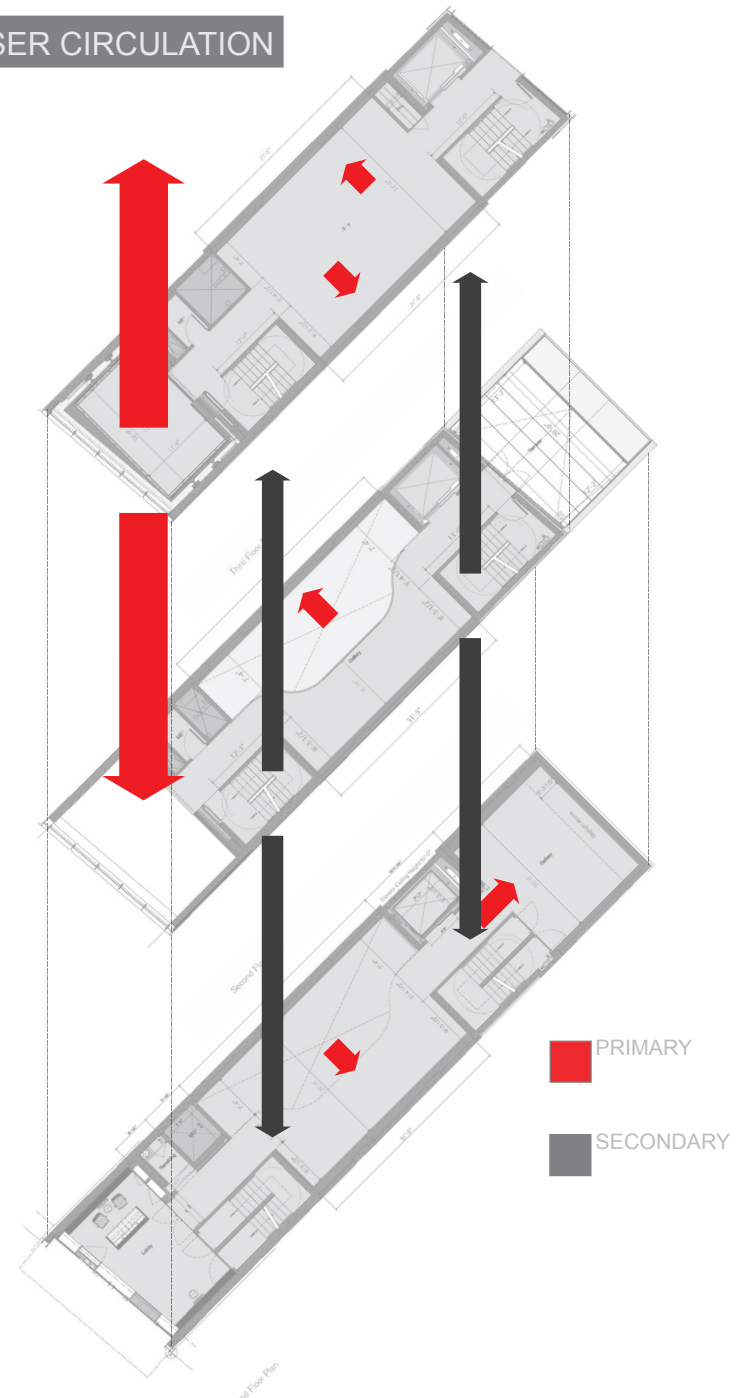


BUILDING LANGUAGE/STYLE DEVELOPMENT



FACADE ACTIVATES THE STREET

USER CIRCULATION



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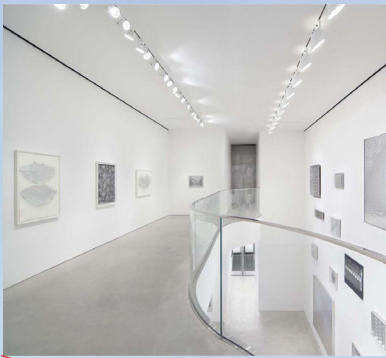
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LIGHTING/WAYFINDING: NVLP : XHBT

VARIATION: WALL SPACE;
PERSPECTIVE



LIGHT AS GUIDANCE



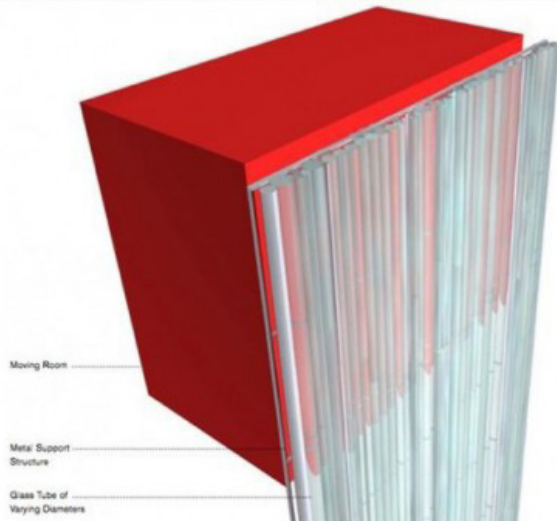
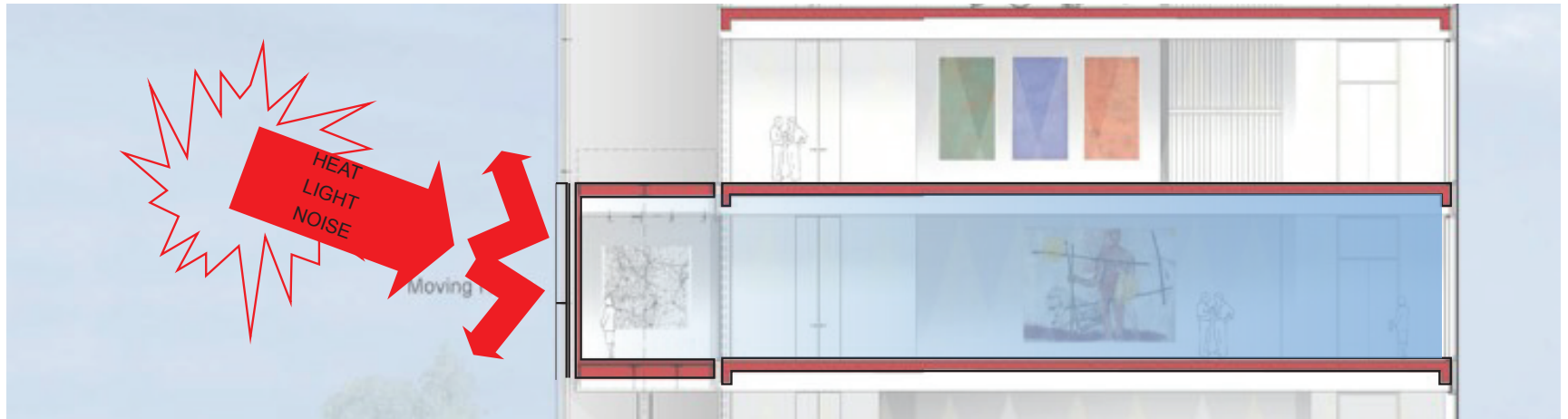
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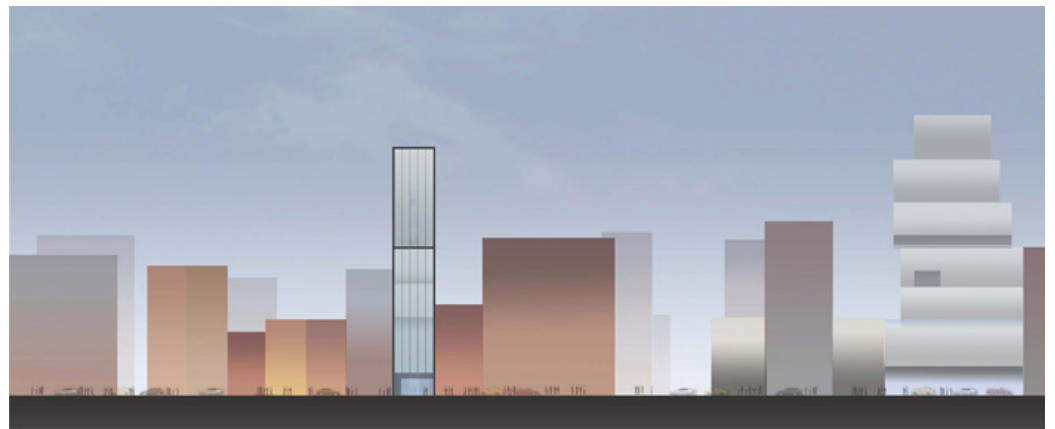
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SKIN/PERFORMANCE NVLP : XHBT



MILLED GLASS:
HEAT
STRUCTURE

FACADE IN CONTEXT



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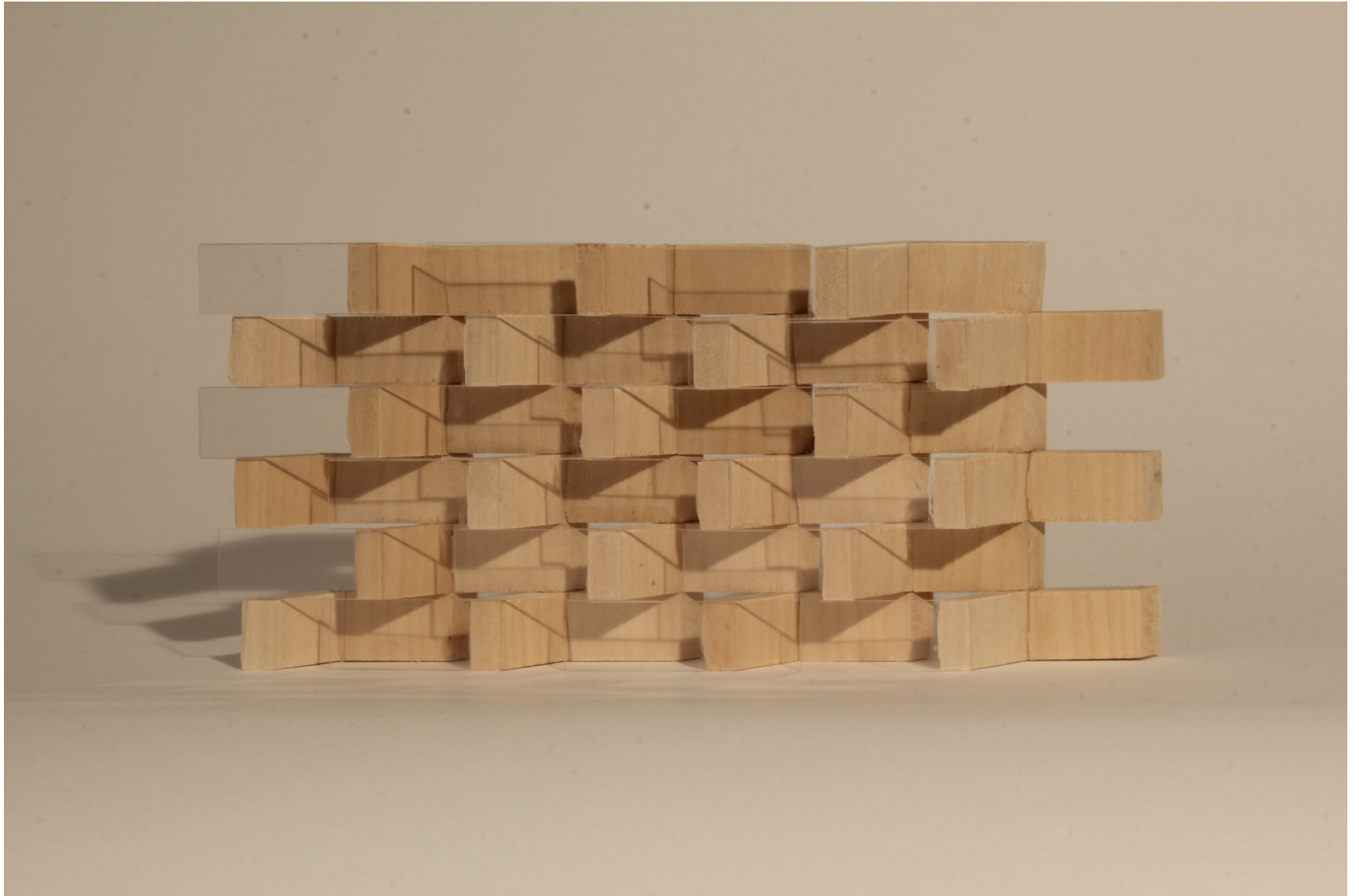
Skin Models

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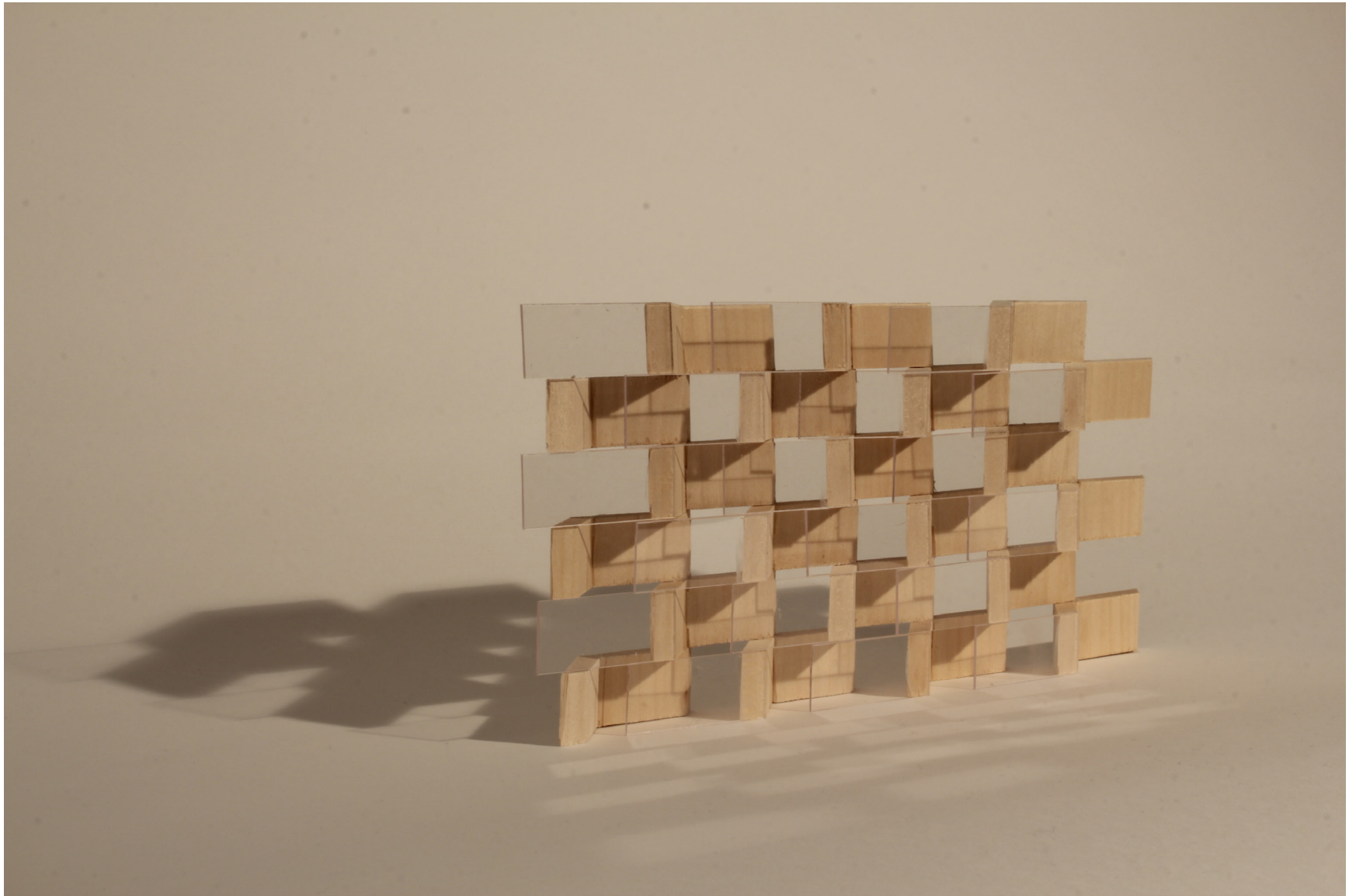


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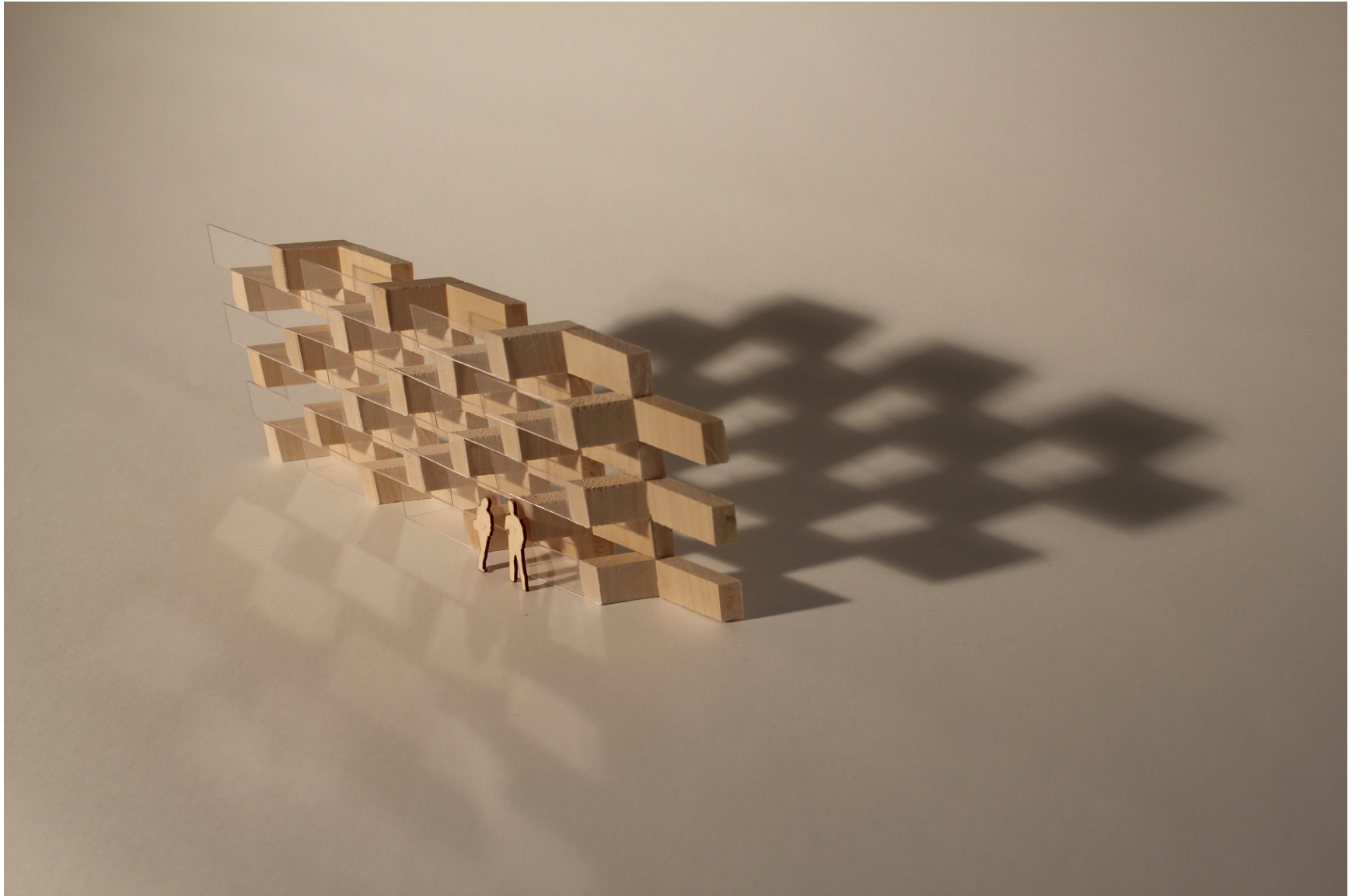


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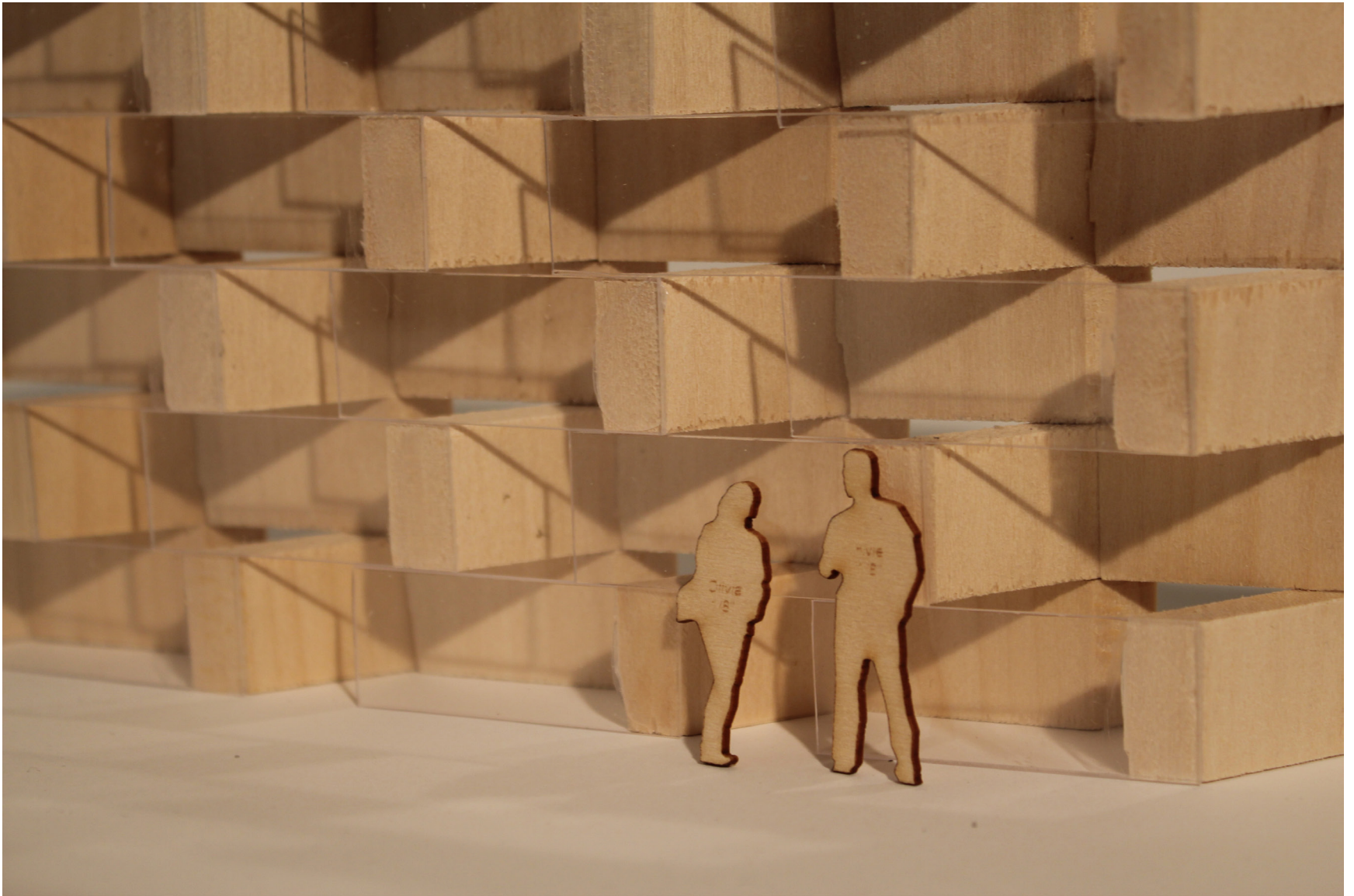


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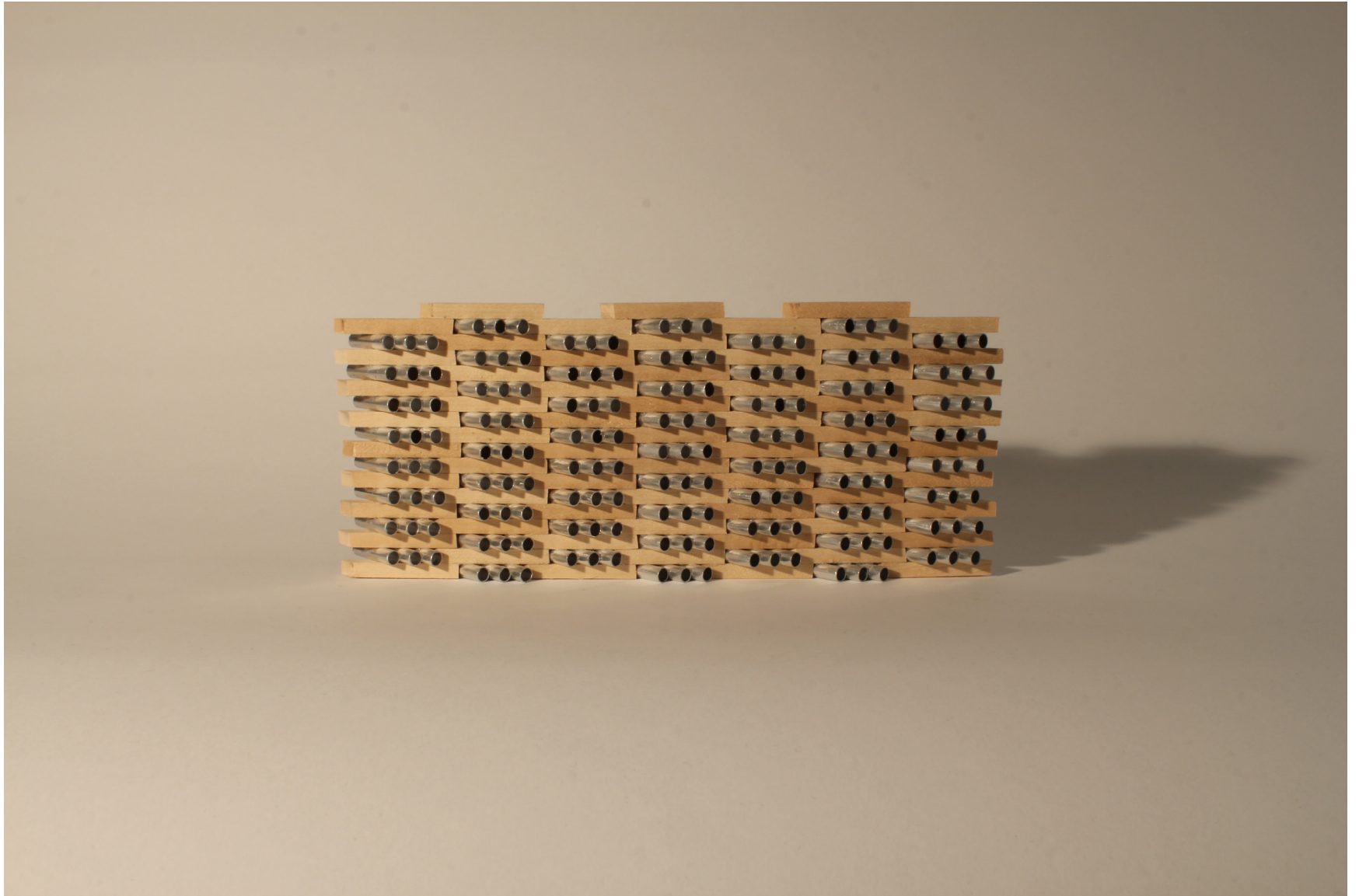


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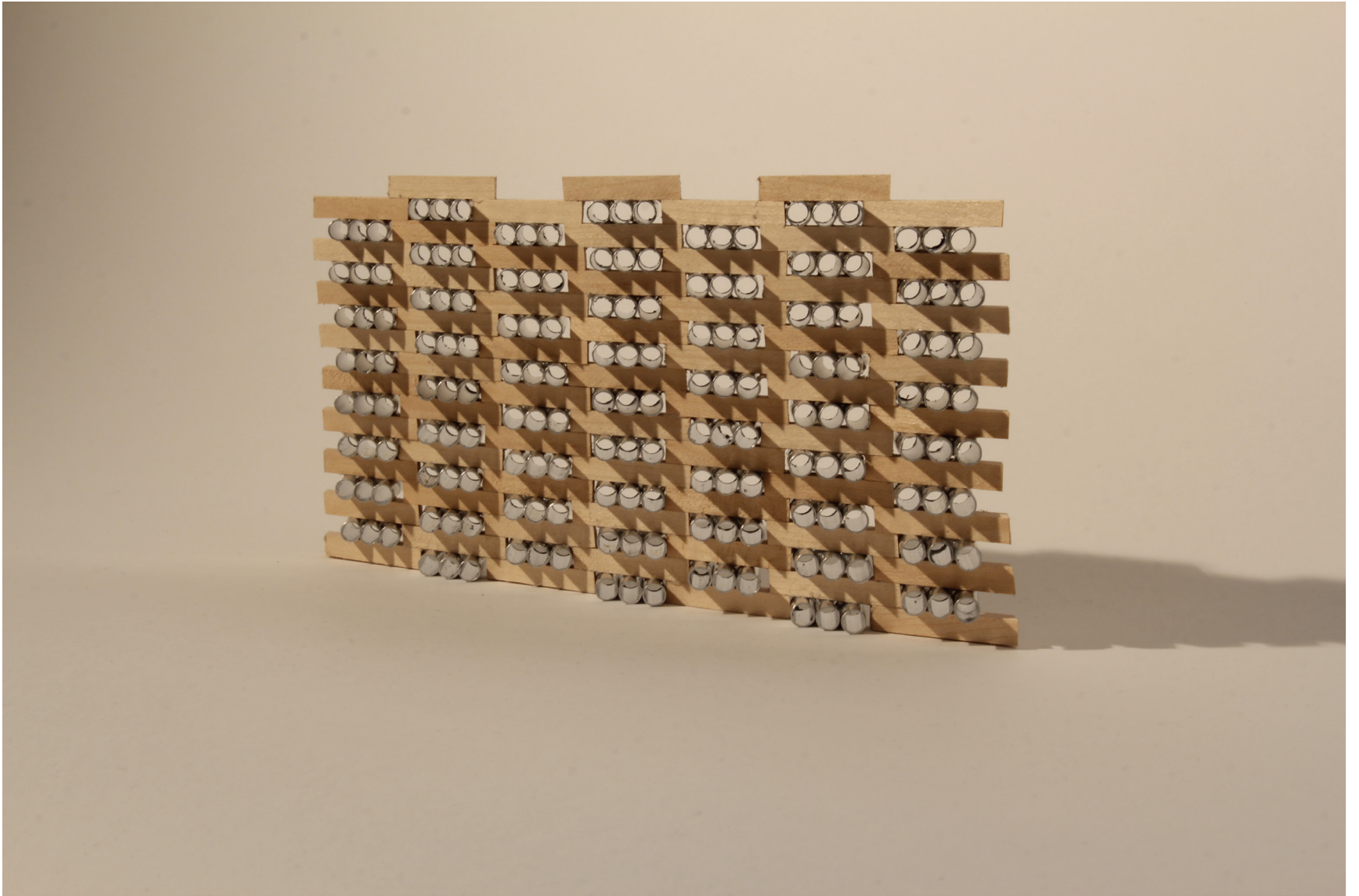


| PH A . DISCOVERING | PH B . CONSTRUCTING | PH C . PLANNING | PH D . DEVELOPING | PH E . REFINING | PH F . PRESENTING |

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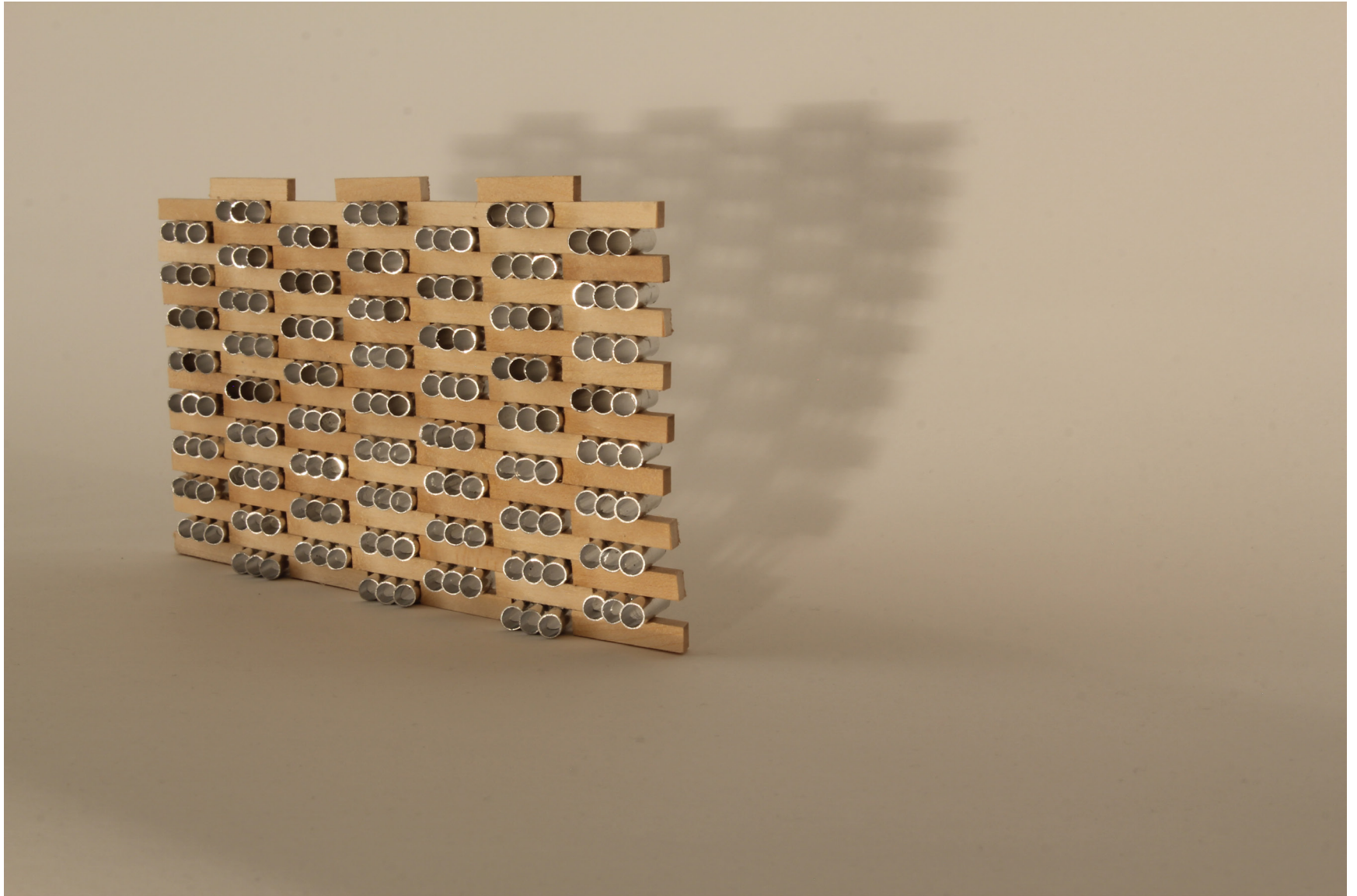


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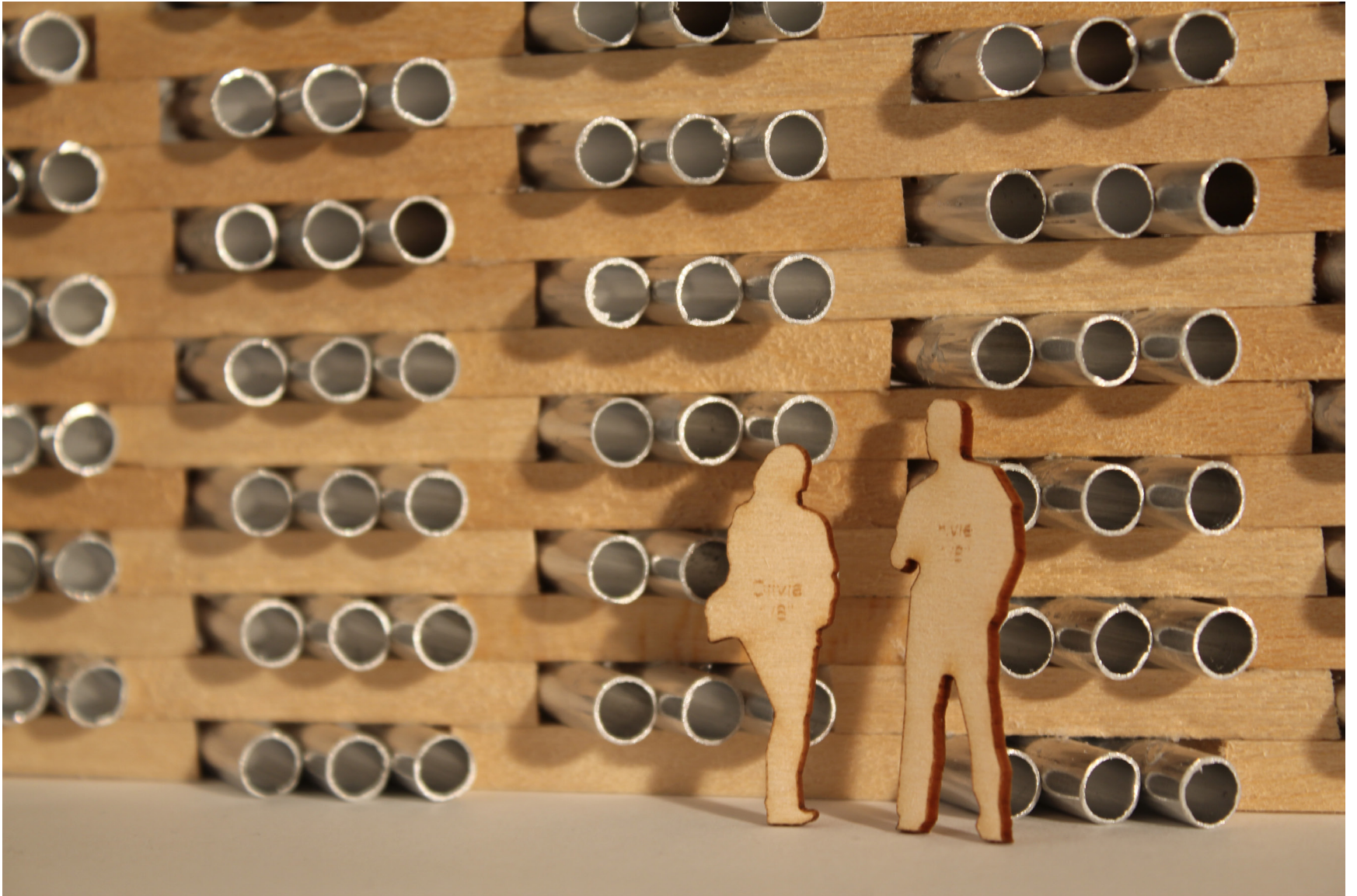


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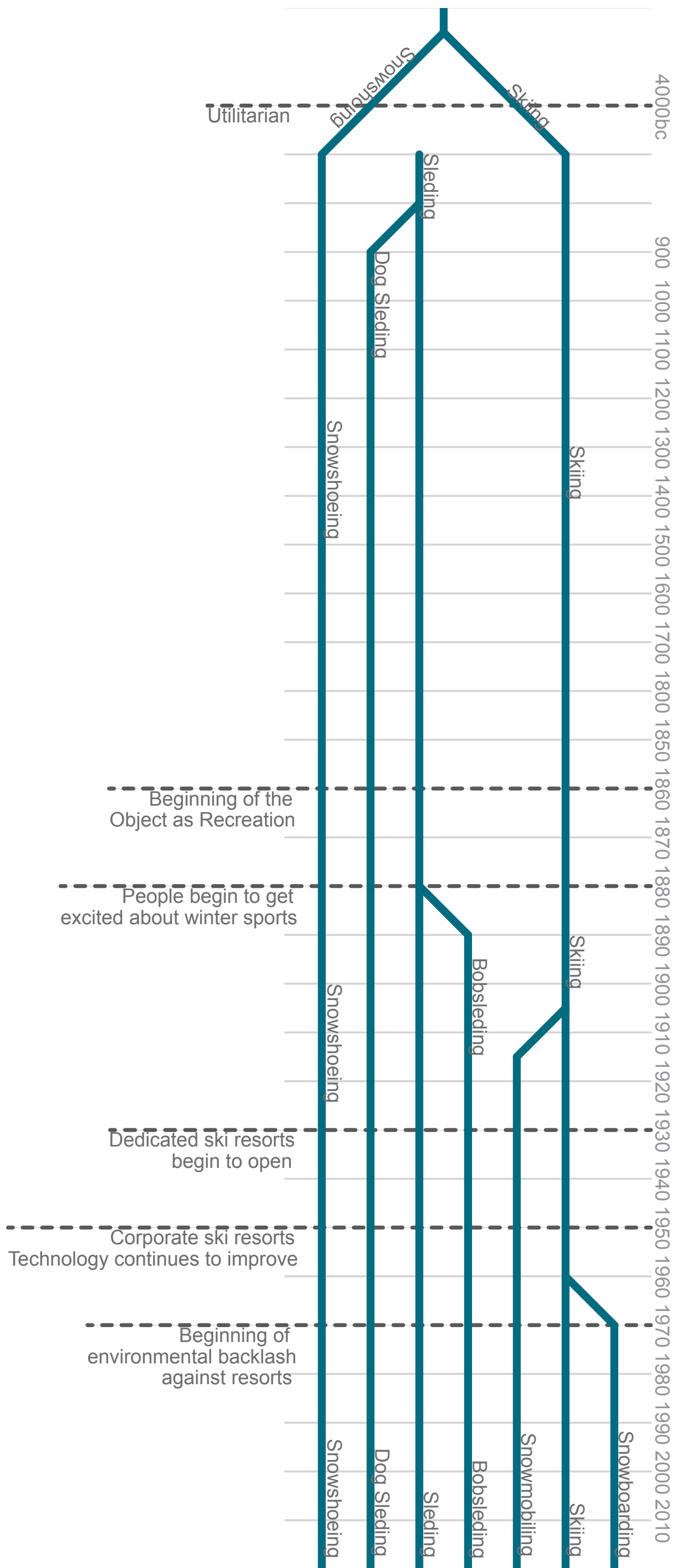
Midterm Presentation

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Purely Utilitarian

4000bc to 1860's

4000 B.C.

Rock drawings in Norway show a man on skis with a spear.



10th Century AD

Dog power has been used for hunting and travel dating as far back as the 10th century.



1206

Norwegian military backcountry skiers carry the king's baby Haakon Haakonson to safety over mountains during Civil War.

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Skis in the late 1800s were called Norwegian snowshoes or long snowshoes. Snowshoes were called webs or Canadian snowshoes.

1849

The California Gold Rush brings people from all over the world to the Sierra Nevada Mountains, and some of those people bring their Skis and Snowshoes with them.



1850

Sondre Norheim invents the telemark binding, the telemark turn, and the Christiania turn.



Snowshoe Thompson from an old postcard (Courtesy of Ingrid P. Wicken)

1856

Snowshoe Thompson skis 118 miles round trip, between Genoa and Placerville California, to begin his 20 year career as mail carrier on skis.

1883

An Australian student named George Robertson won what is reputed to be the world's first international sled race.



Beginnings of Recreation

1860's to late 1880's

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Subculture Forming

Late 1880's to 1930's

1888

Norwegian explorer Fridtjof Nansen completes 310 mile ski crossing of Greenland using skis and dragging sleds. Interest in skiing is stimulated by Nansen's expedition.



1894

'Toe irons,' the precursors to modern ski bindings are produced by Fritz Huitfledt.

1902

The Lombard Log Hauler is designed and built in Waterville, Maine. This is a precursor to modern snowmobiles.



1904

The Standard Novelty Works of Duncannon, Pennsylvania begins producing the famous Lightning Guider sleds.

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Toboggan pullback lift at Hilltop, Truckee, Ca. (circa 1925)

1910
The first recorded ski lift in the U.S. was a steam-powered toboggan lift in Truckee, California.

1924
Bobsled racing appears in the winter olympics for the first time.



1936
Sun Valley Ski Resort opens near Ketchum, Idaho, complete with the world's first chair lift.



1941

10th Mountain Division is created to specialize in mountain and cold weather warfare.



Ski Resorts Open

1930's and 1940's

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Technology Improves, Industry Becomes Increasingly Corporate

1940's on



ASPEN SKIING COMPANY

1947

Aspen Skiing Company is formed.

1947

Howard Head makes the first metal composite ski.



1949

Steve Bradly (director of Winter Park Ski Resort) invents the Bradly Packer Grader (a precursor to the modern slope grooming device.)



1950

The Cubco binding becomes the first semi-step-in, spring-loaded, latched-heel binding system.



1957

Lange introduces the first plastic boots.

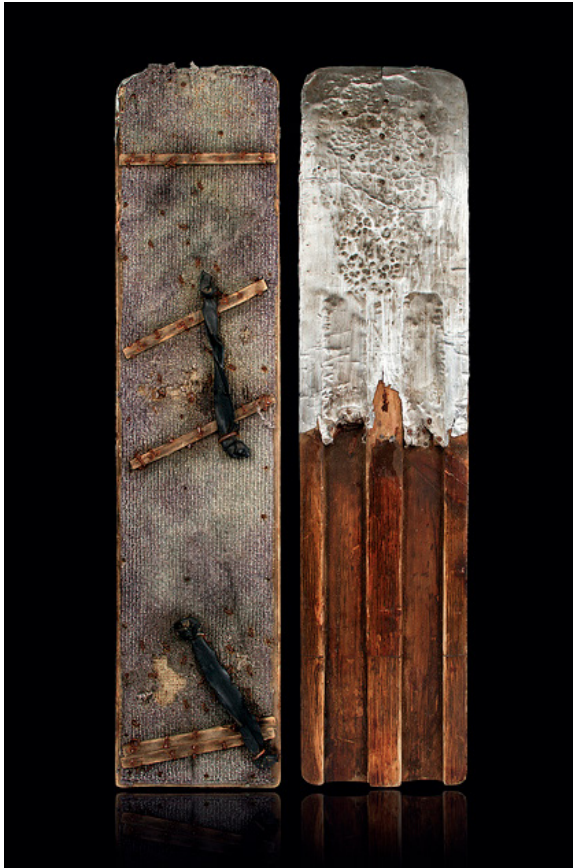


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1963

Tom Sims constructed the first snowboard on record in his eighth grade shop class by gluing carpet to the top of a piece of wood and attaching aluminum sheathing to the bottom.

1965

Sherman Poppen develops a toy for his daughter by fastening two skis together and attaching a rope. He calls it a "snurfer." It proves very popular with his daughter and her friends.



1977

Jake Burton Carpenter, a Vermont native who had enjoyed snurfing since the age of 14, impressed the crowd at a Michigan snurfing competition with bindings he had designed to secure his feet to the board.



1983

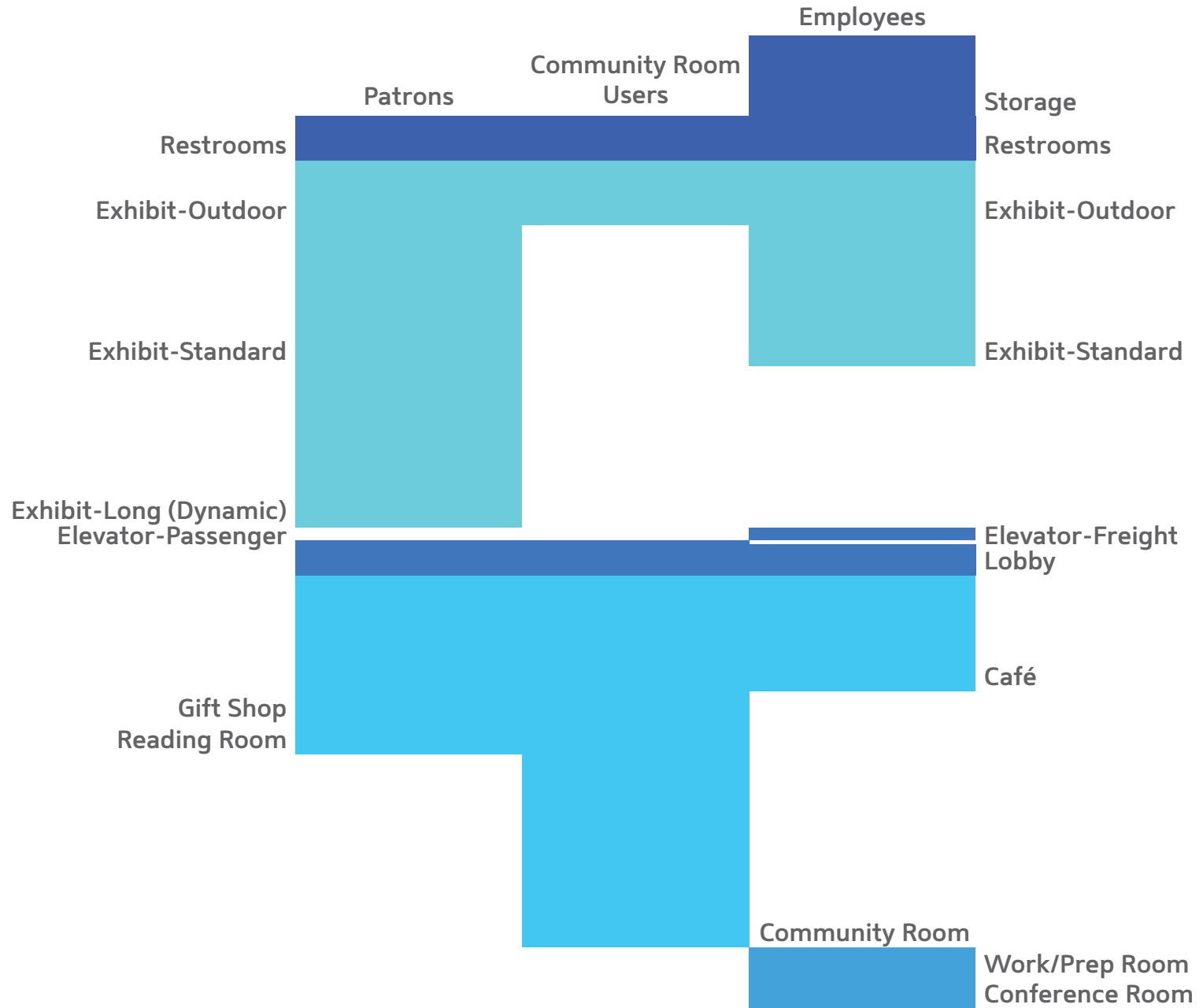
The first World Championship halfpipe competition was held at Soda Springs, California.

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Building Program

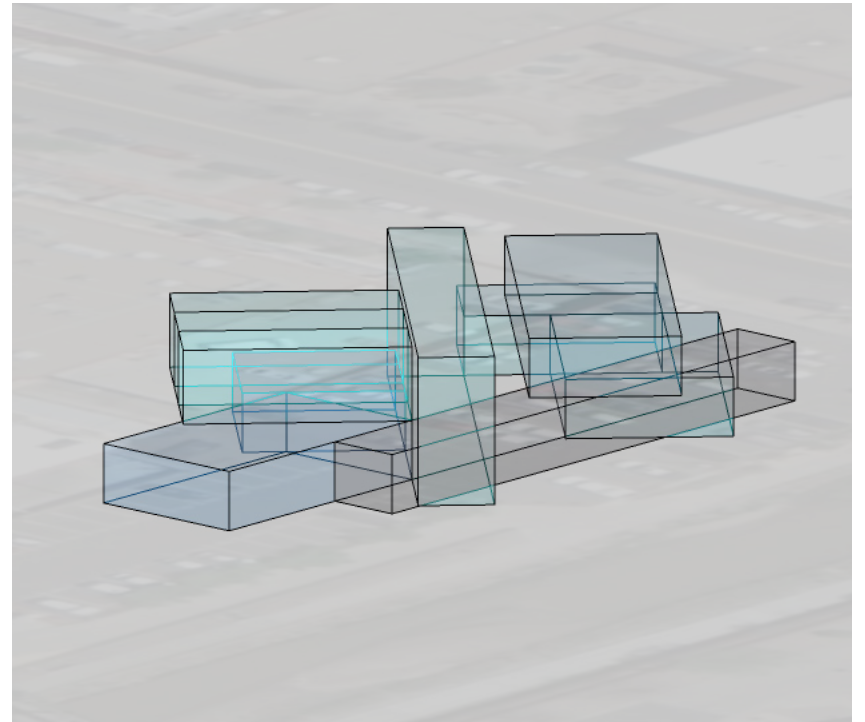
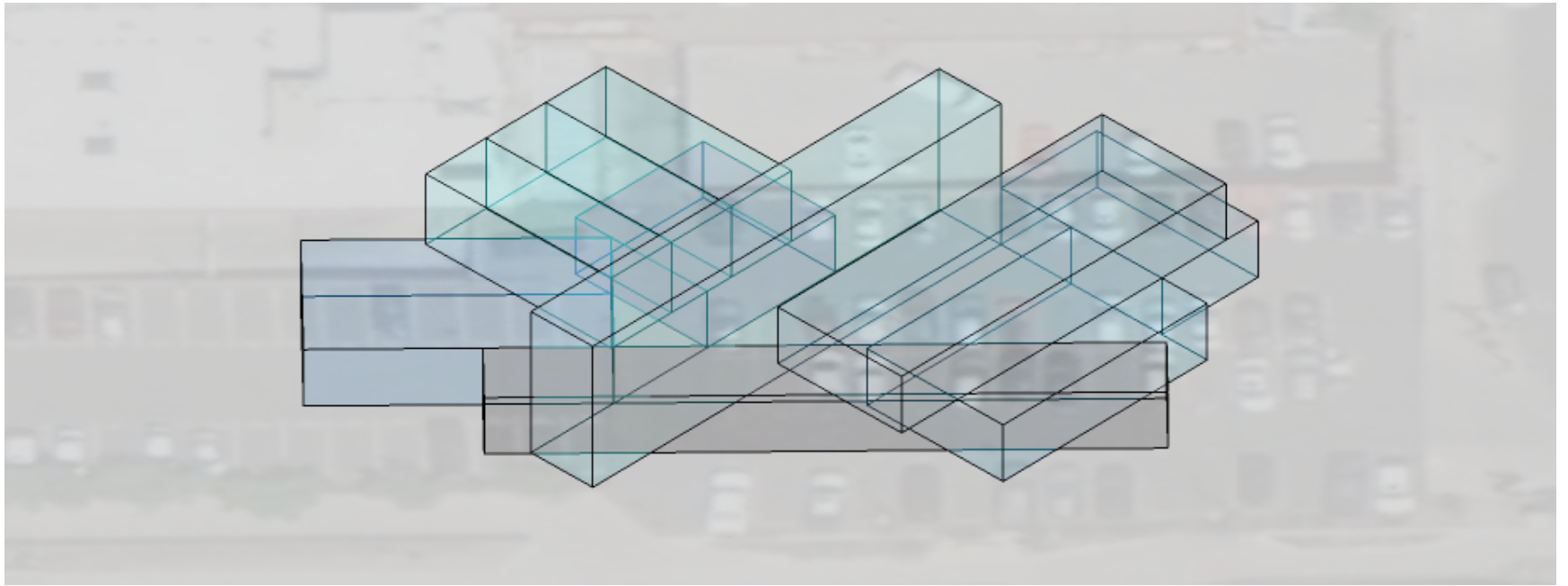
Spaces arranged by experience.

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Massing Iteration 1

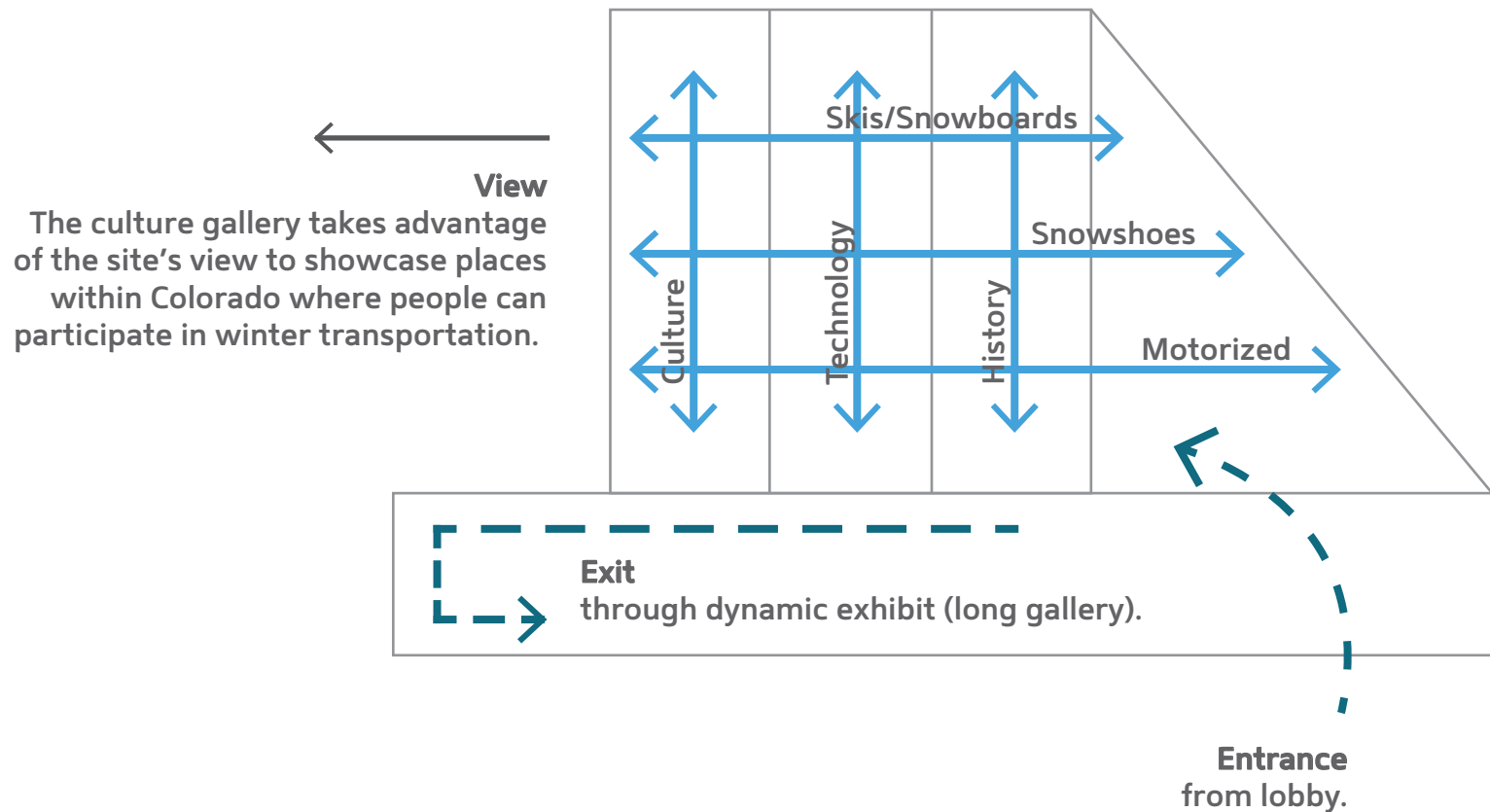
Building massing is arranged by experience.

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Massing Iteration 1

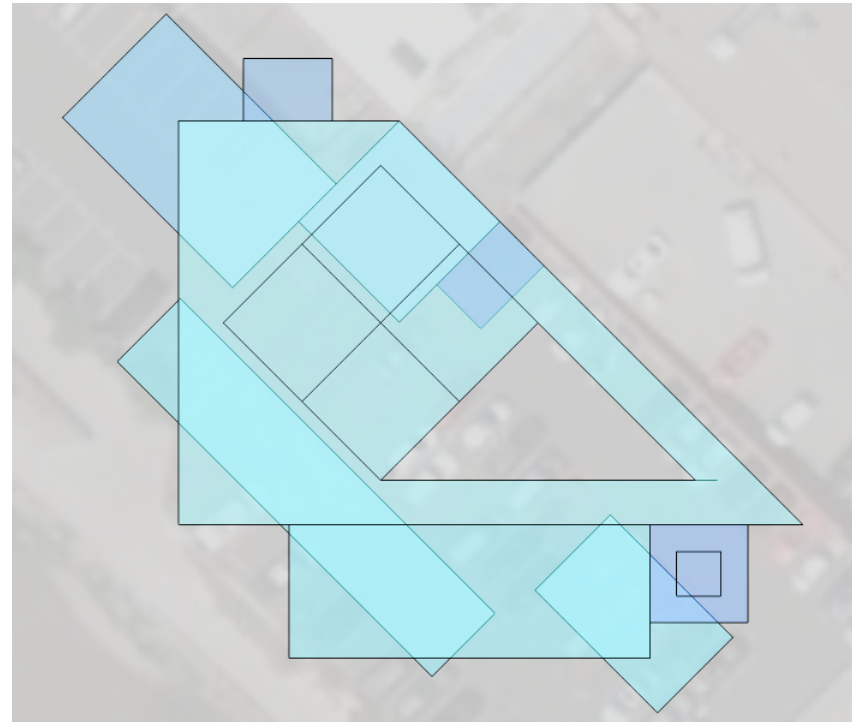
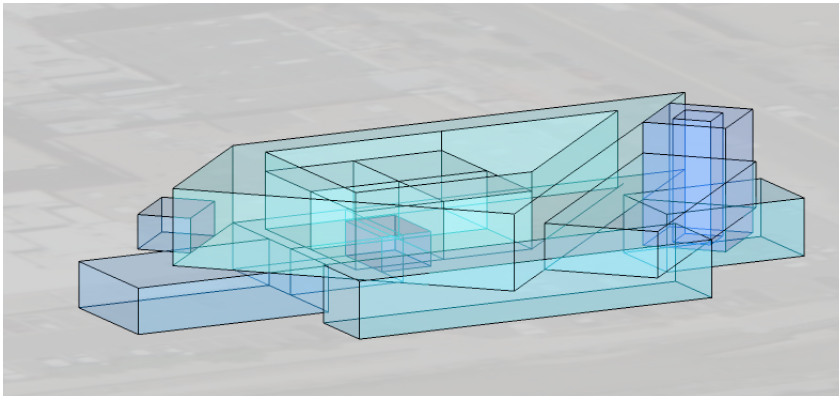
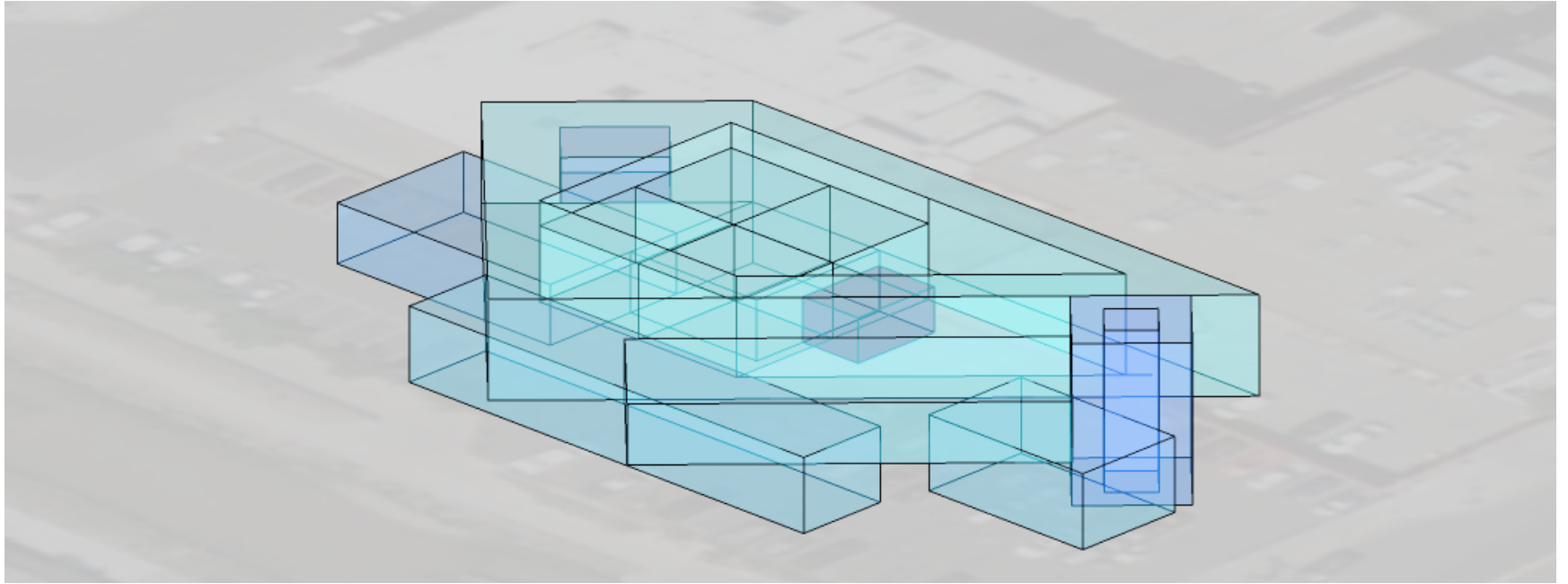
Gallery circulation.

| PH A . DISCOVERING | PH B . CONSTRUCTING | PH C . PLANNING | PH D . DEVELOPING | PH E . REFINING | PH F . PRESENTING |

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Massing Iteration 2

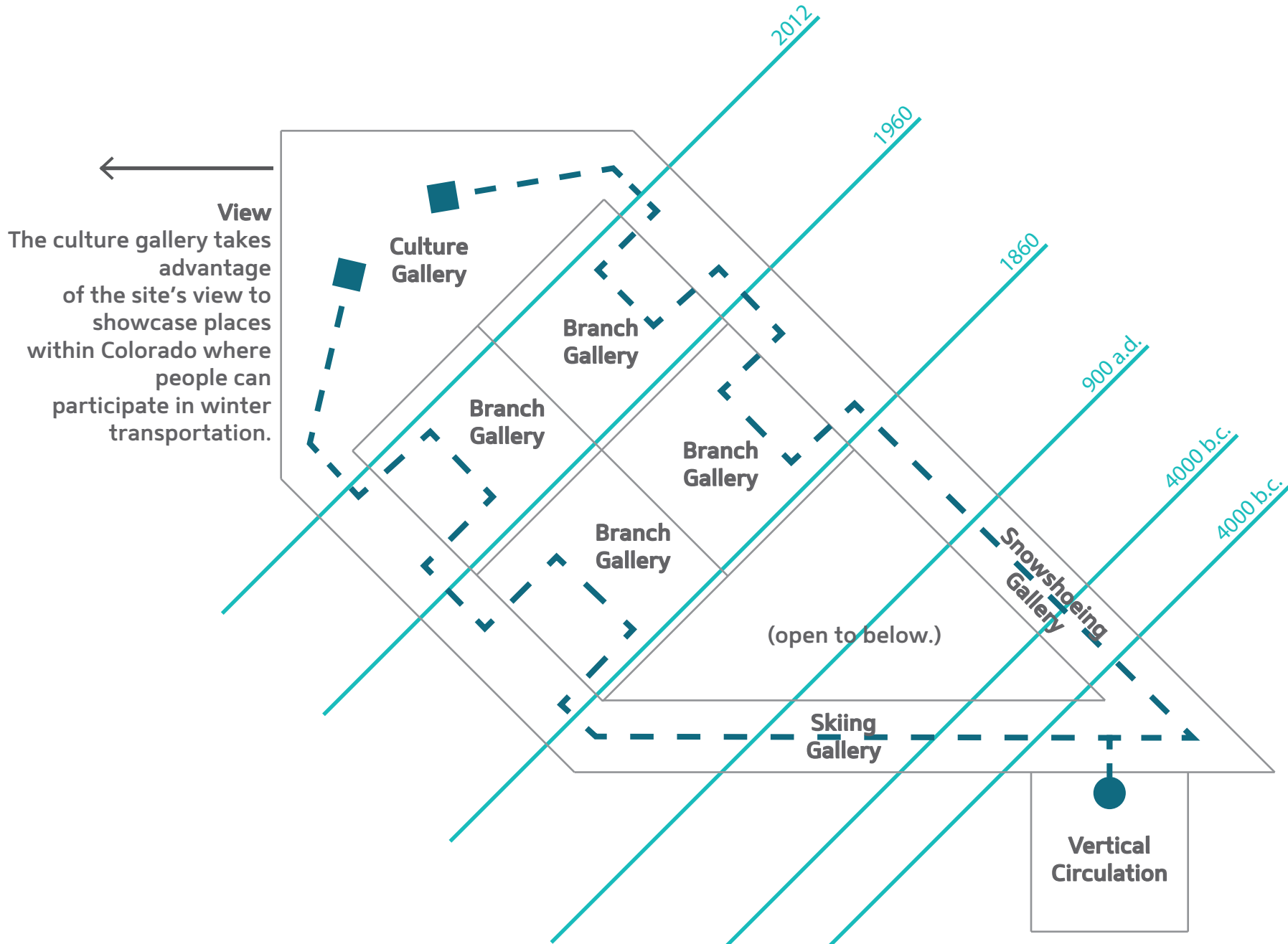
Gallery massing is arranged along a timeline.

| PH A . DISCOVERING | PH B . CONSTRUCTING | PH C . PLANNING | PH D . DEVELOPING | PH E . REFINING | PH F . PRESENTING |

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Massing Iteration 2

Gallery Circulation.

| PH A . DISCOVERING | PH B . CONSTRUCTING | PH C . PLANNING | PH D . DEVELOPING | PH E . REFINING | PH F . PRESENTING |

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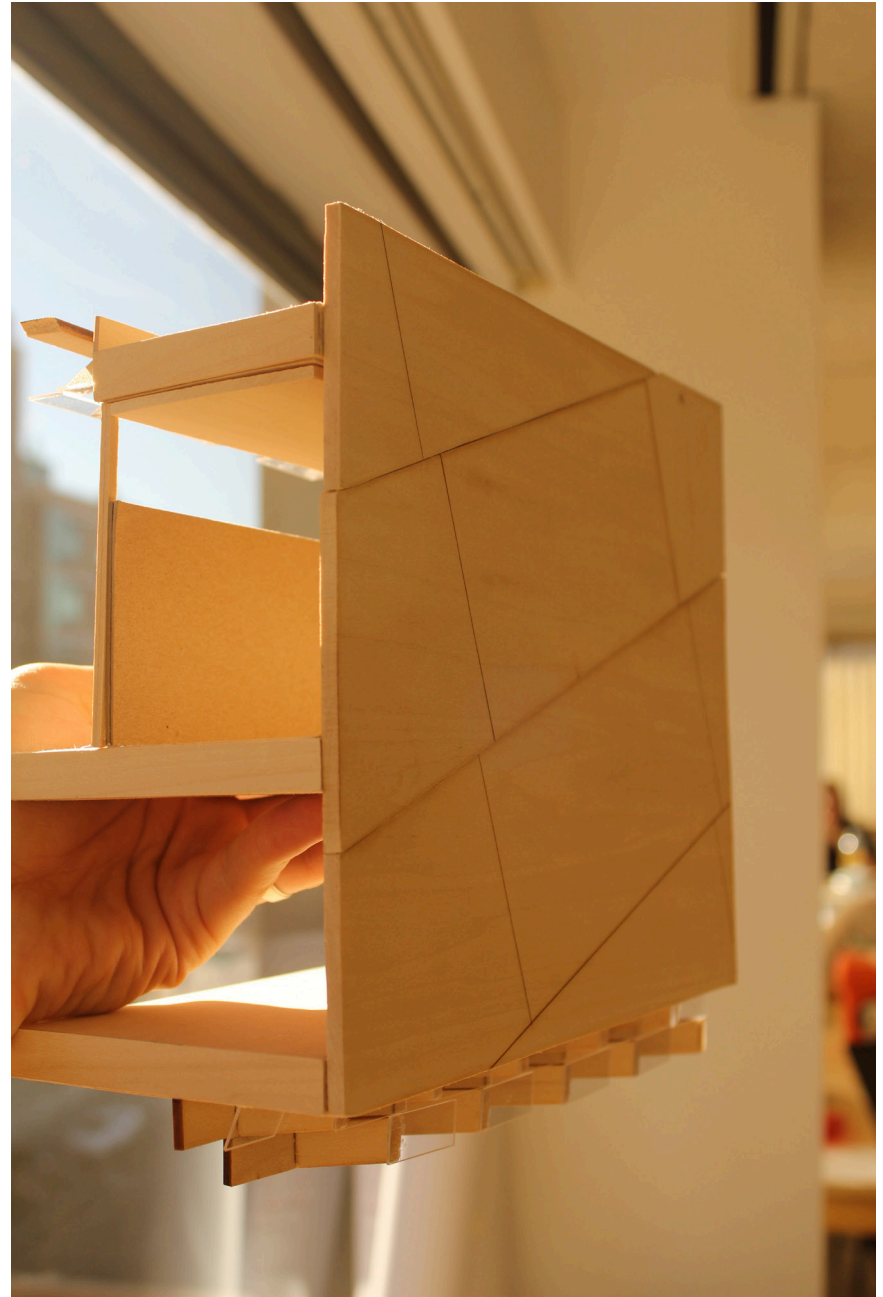
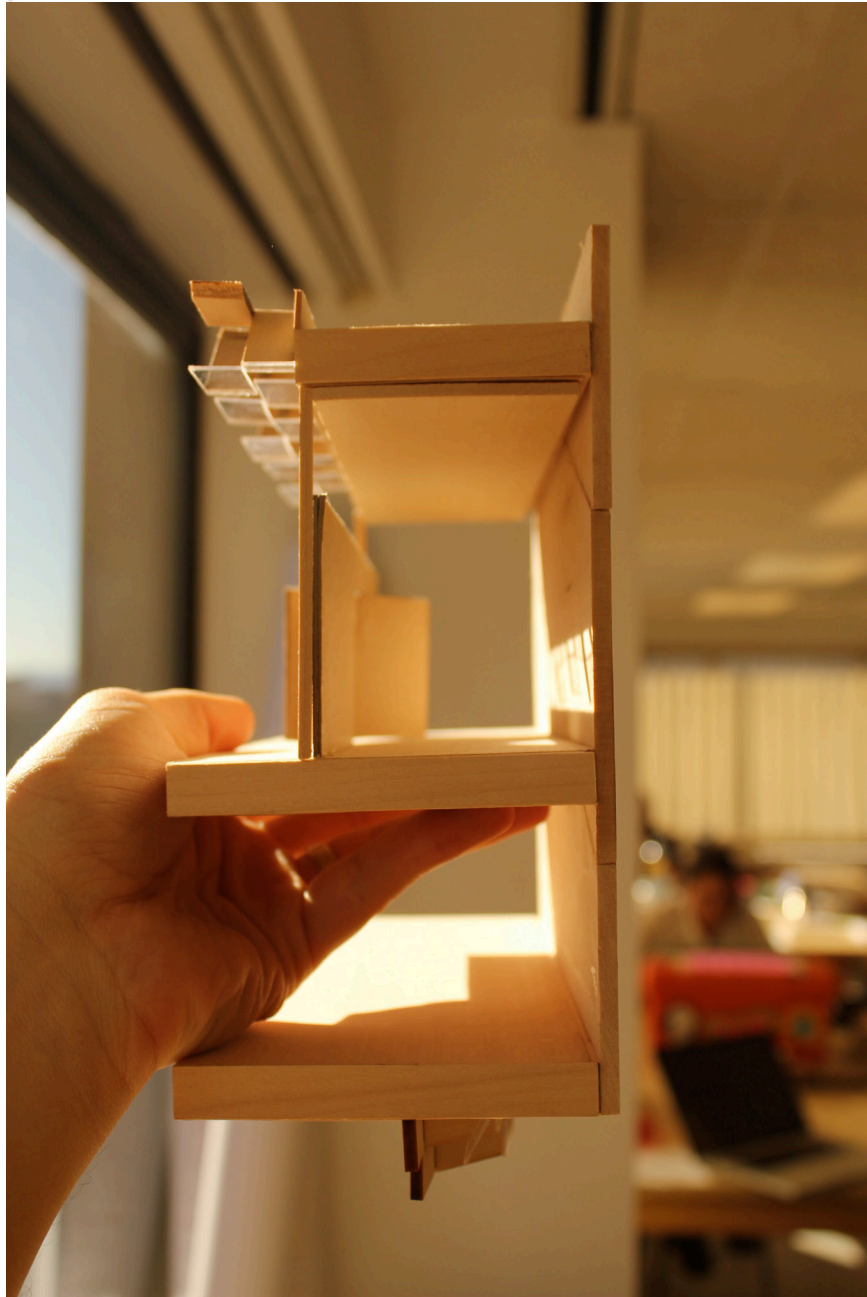
Slice Model

| PH A . DISCOVERING | PH B . CONSTRUCTING | PH C . PLANNING | PH D . DEVELOPING | PH E . REFINING | PH F . PRESENTING |

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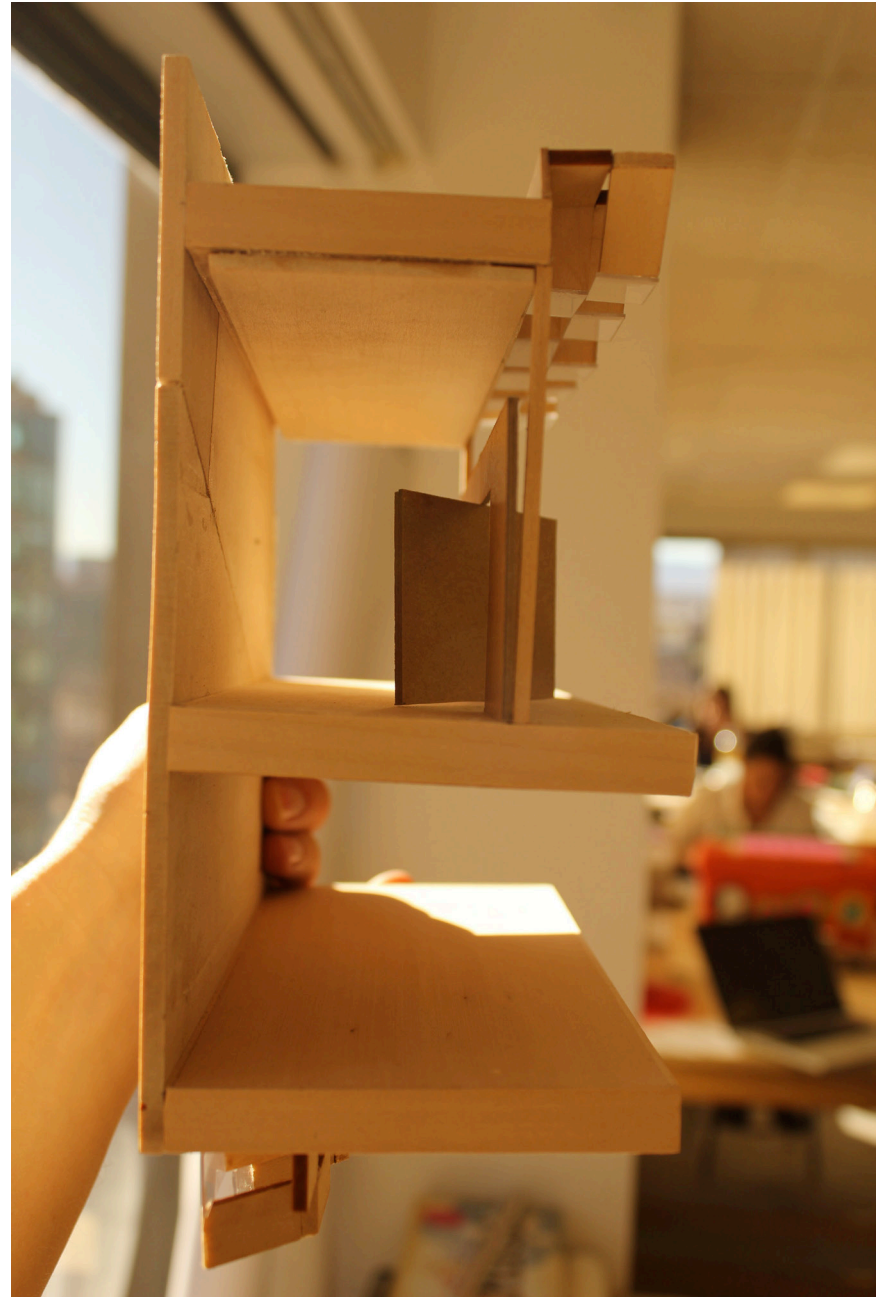


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Final Presentation

| PH A . DISCOVERING | PH B . CONSTRUCTING | PH C . PLANNING | PH D . DEVELOPING | PH E . REFINING | PH F . PRESENTING |

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Denver Snow Rec Museum

1405 Wazee Street, Denver

James Hart | Fall 2012 | Studio 4 | Professor Eric Summerfeld



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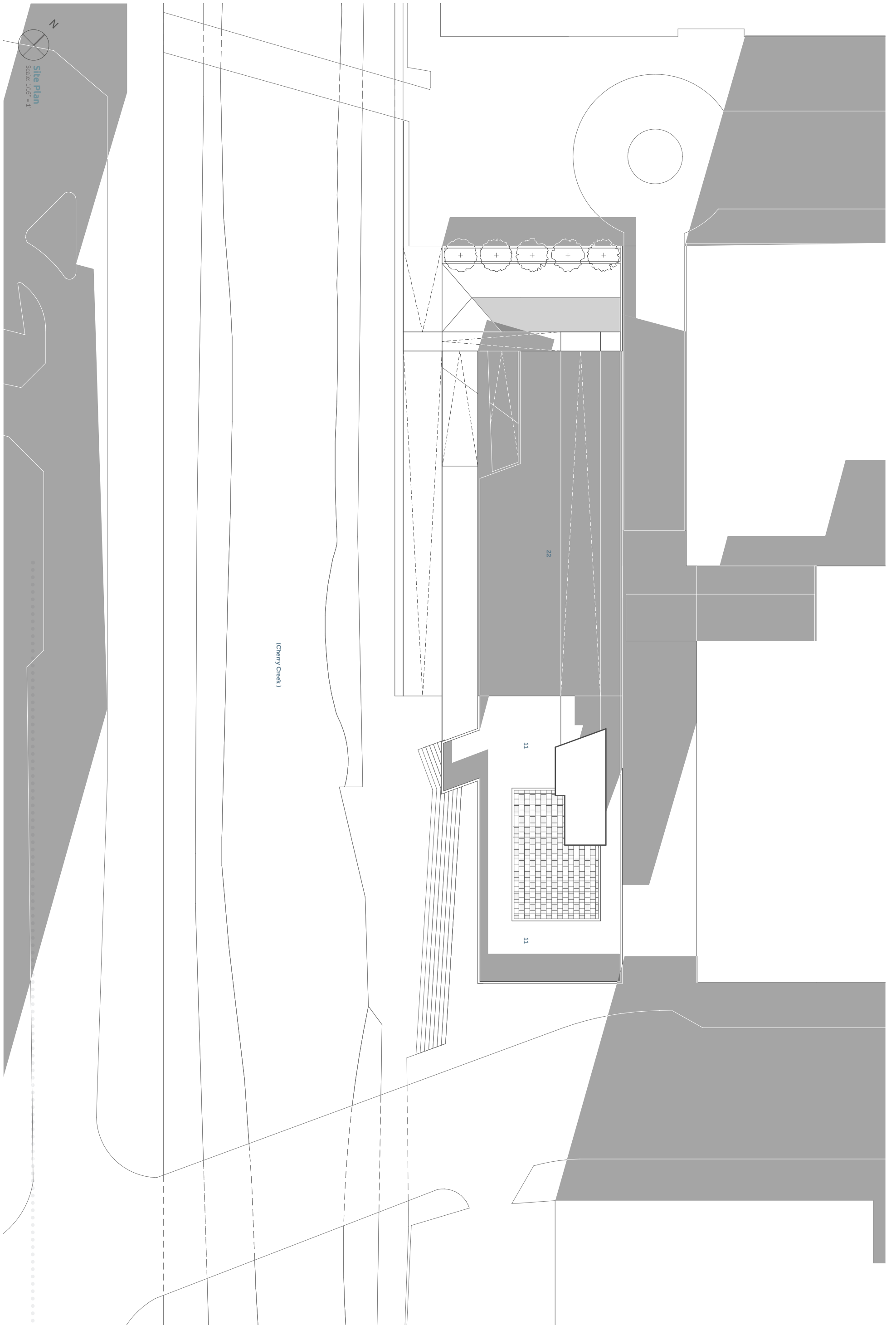


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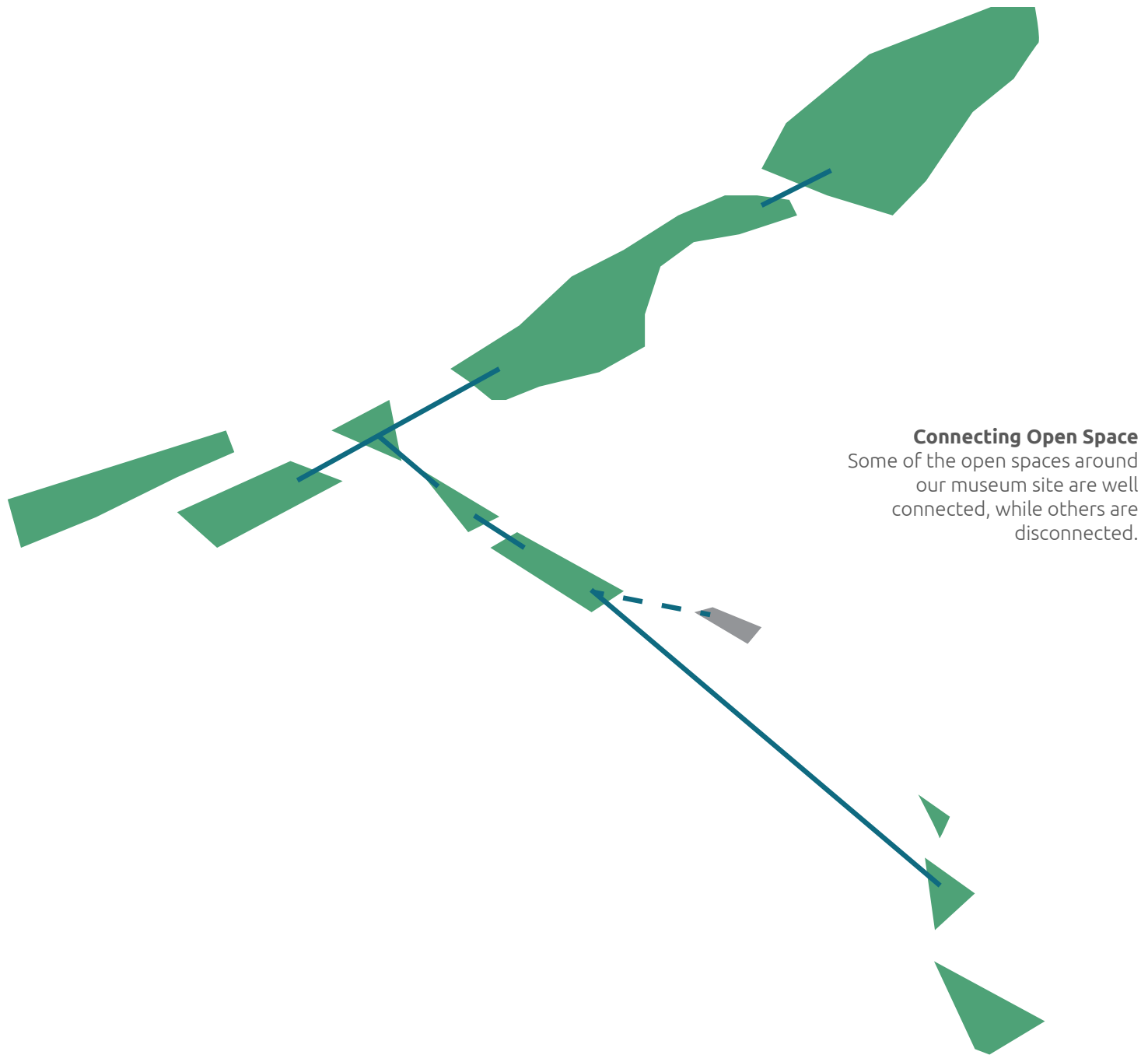


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Pedestrian Experience - Existing

Our museum's connections to other parks

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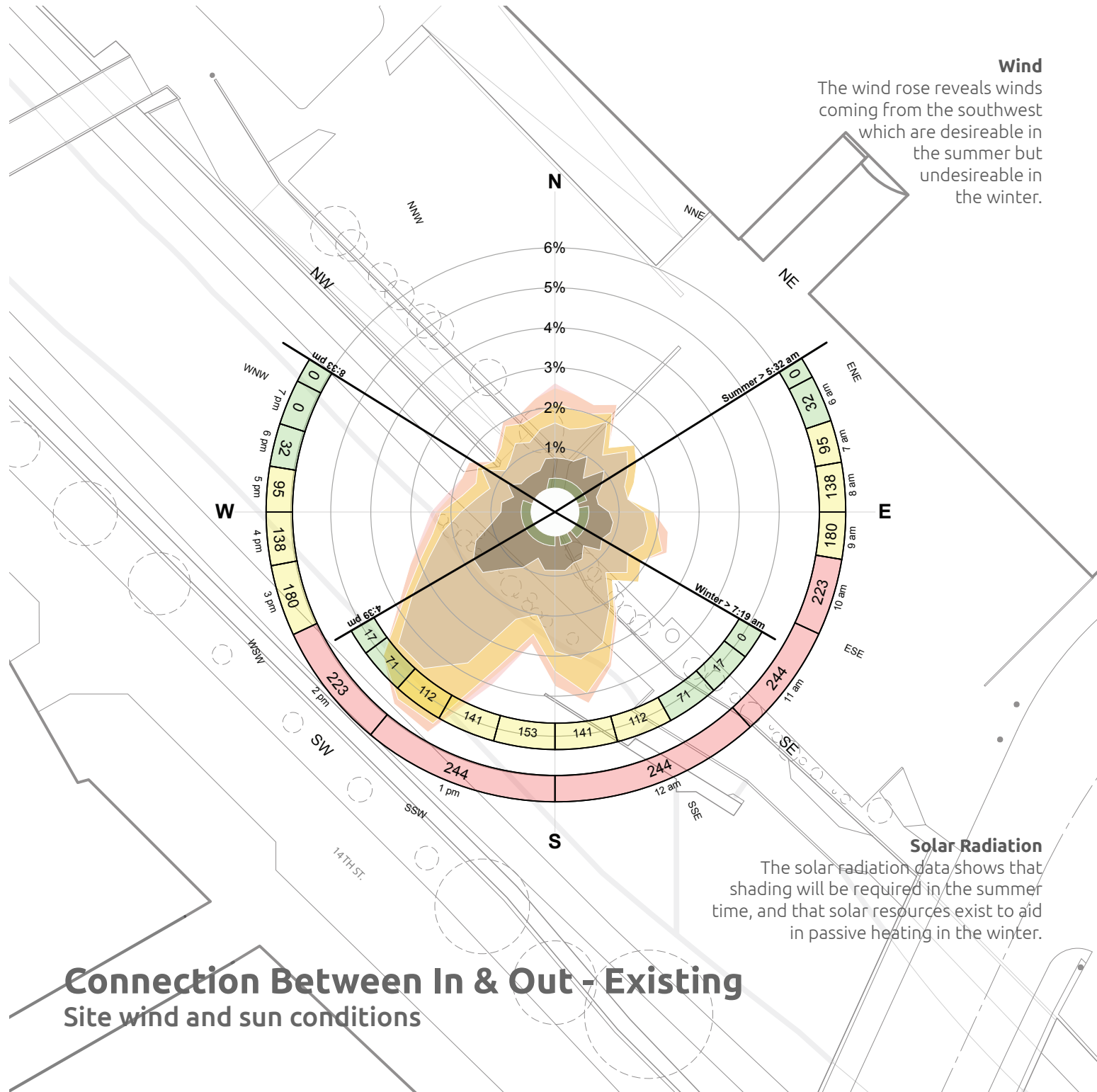


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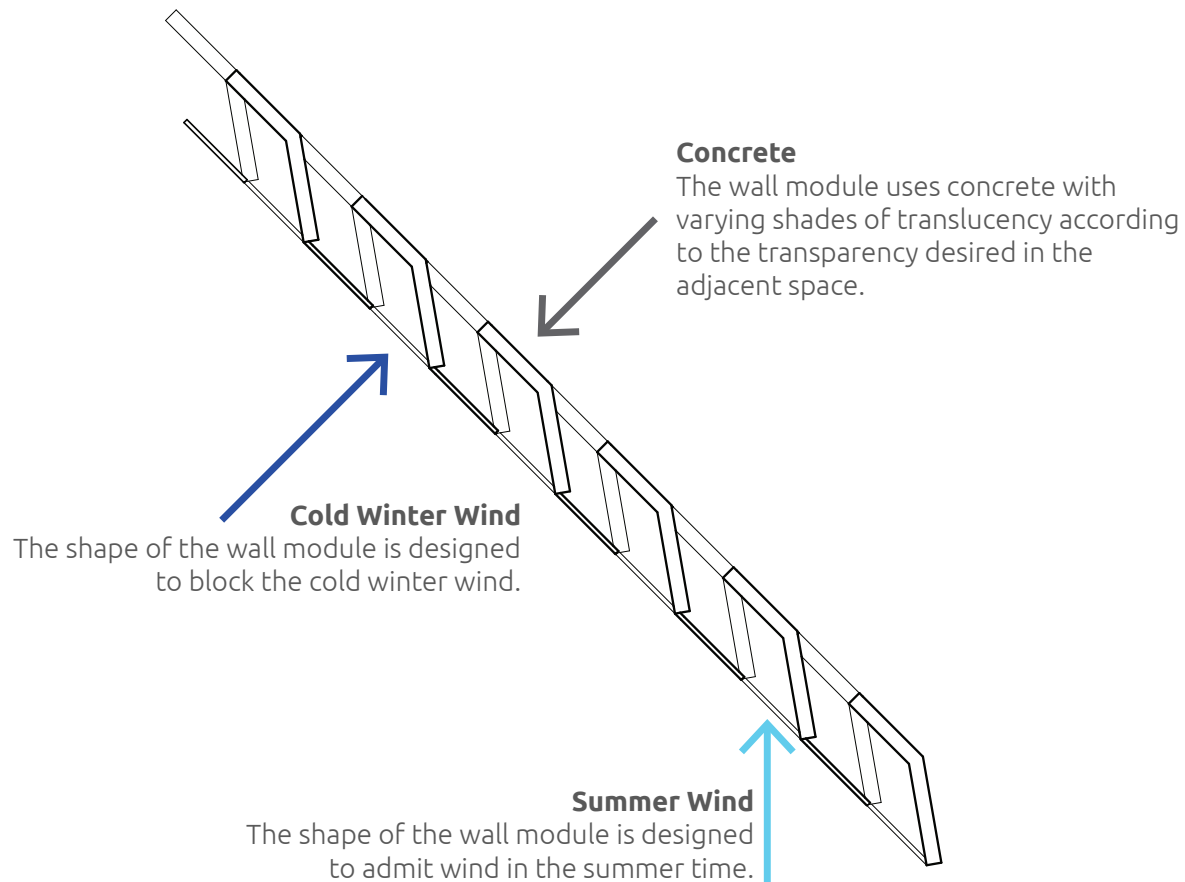


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Skin Design - Concrete and Glass Module

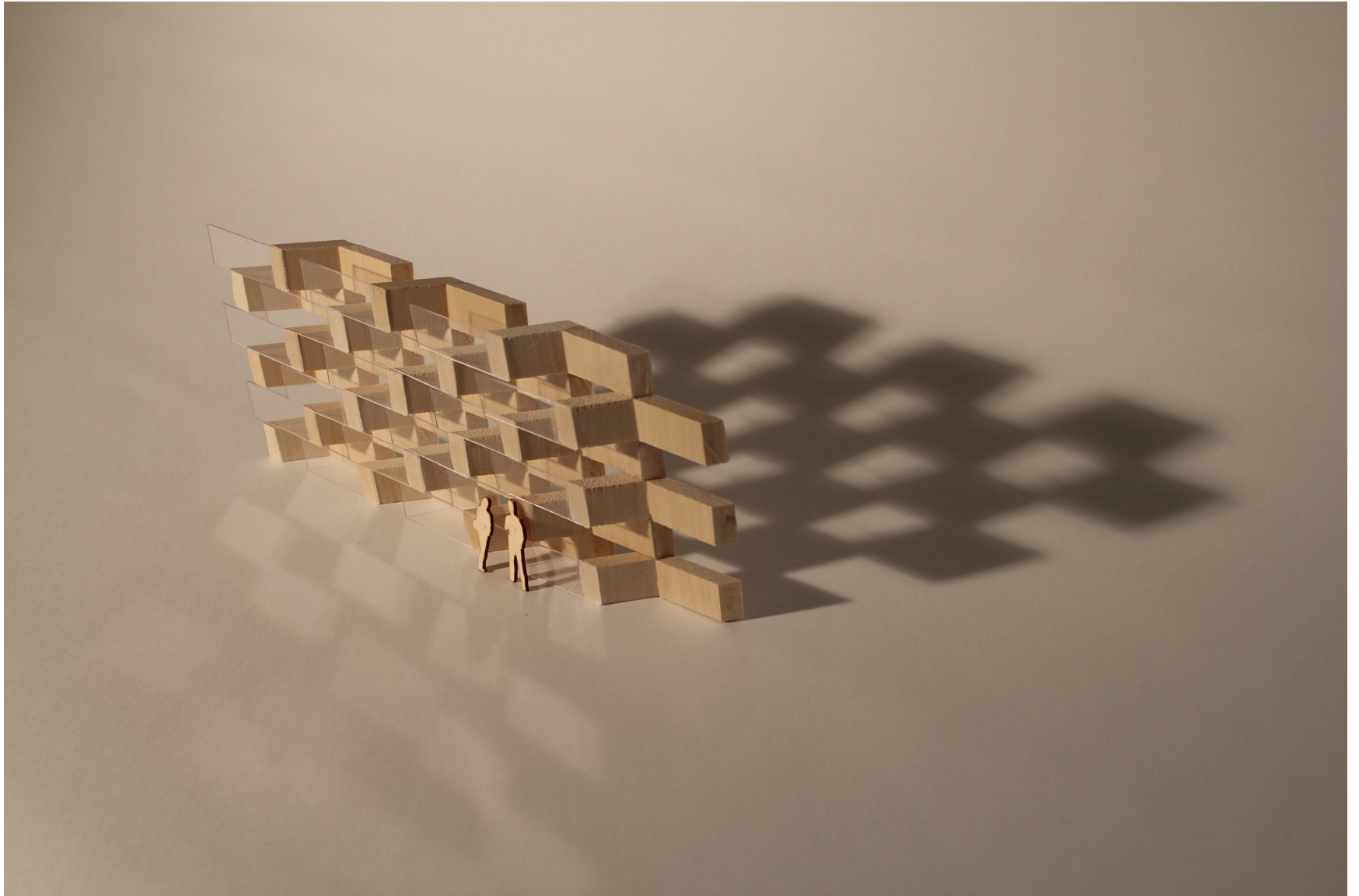
Permeability to sun and wind

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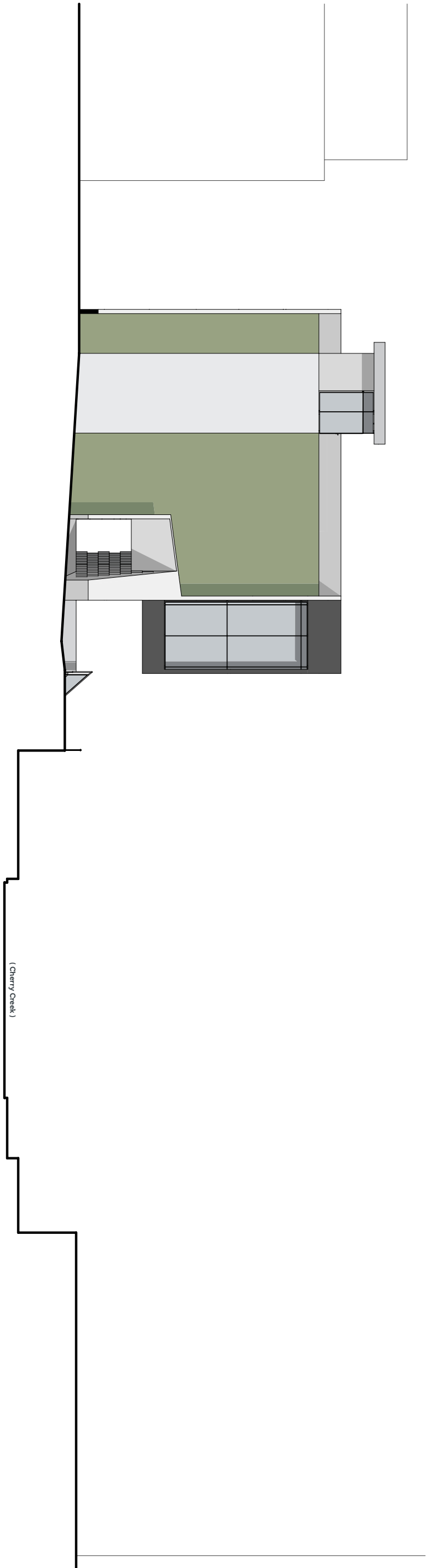
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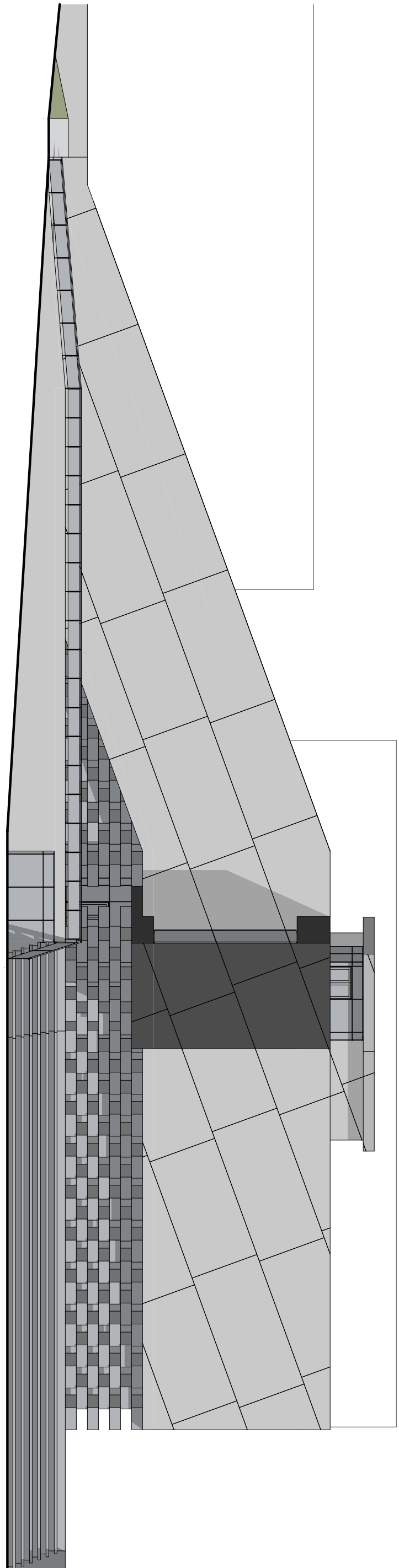
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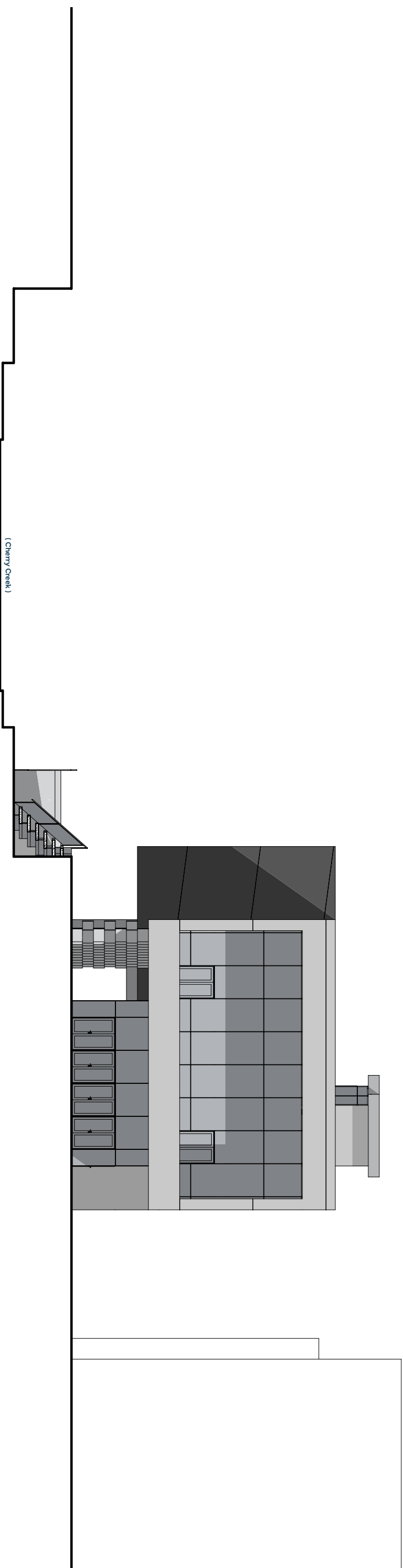
West Elevation
Scale: 1/8" = 1'



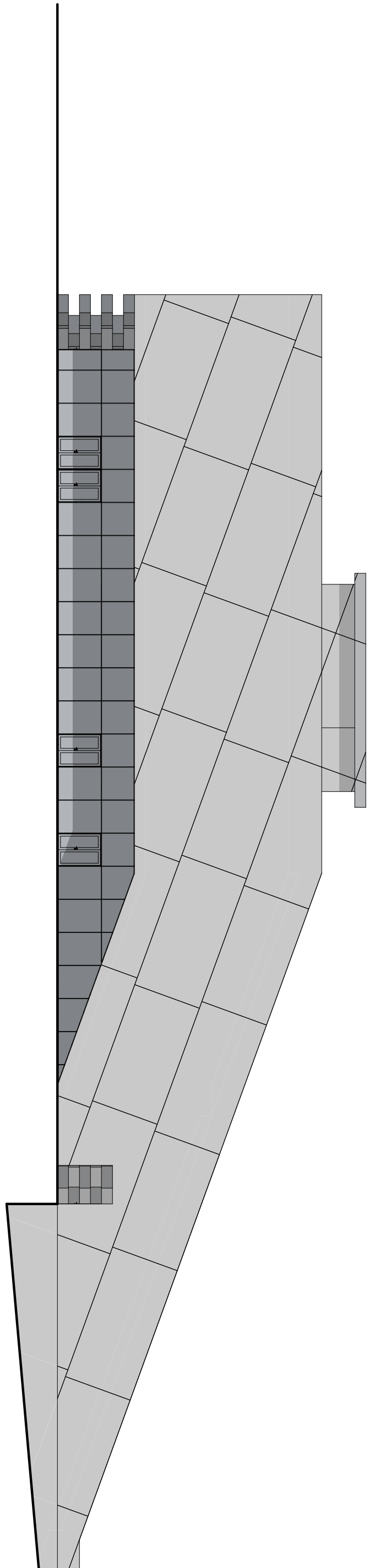
South Elevation
Scale: 1/8" = 1'

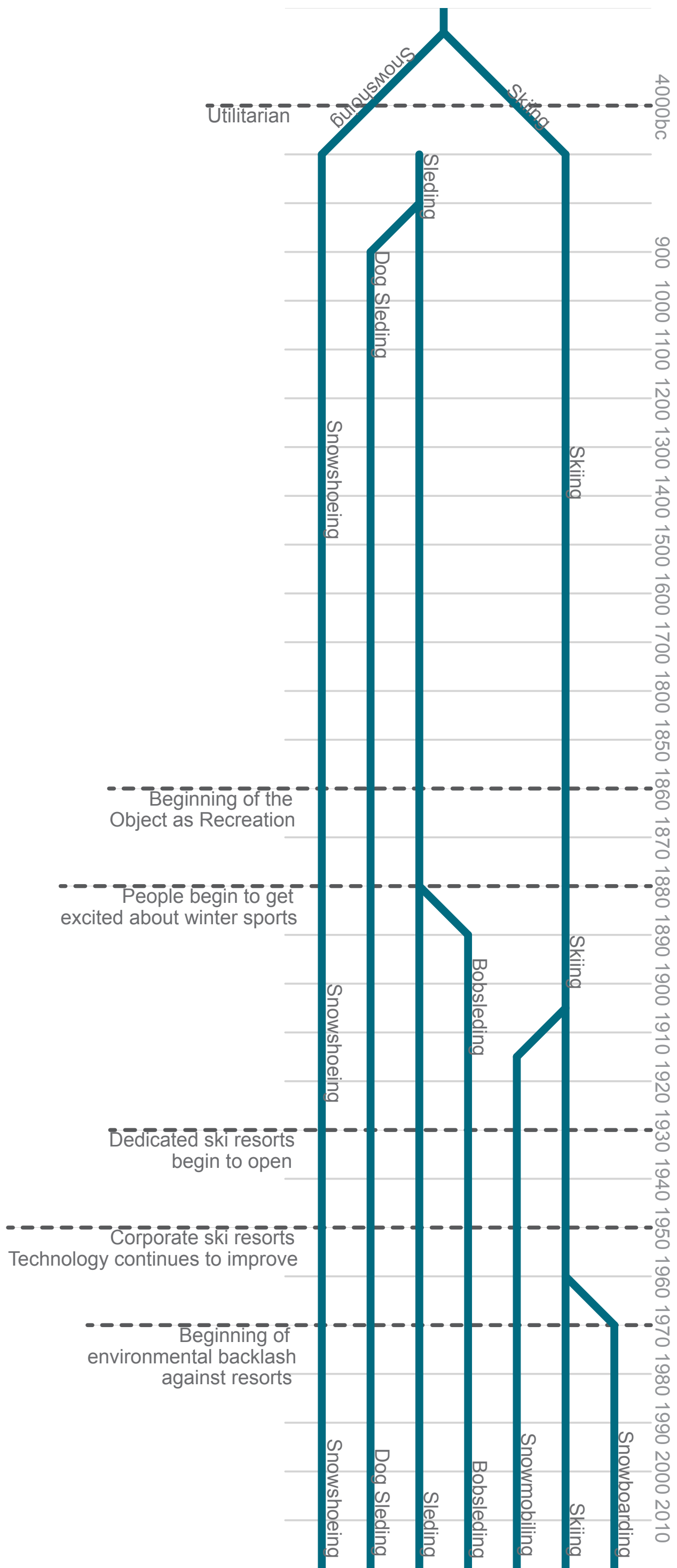


East Elevation
Scale: 1/8" = 1'



North Elevation
Scale: 1/8" = 1'







Program Grouping

Spaces organized by experience and size.

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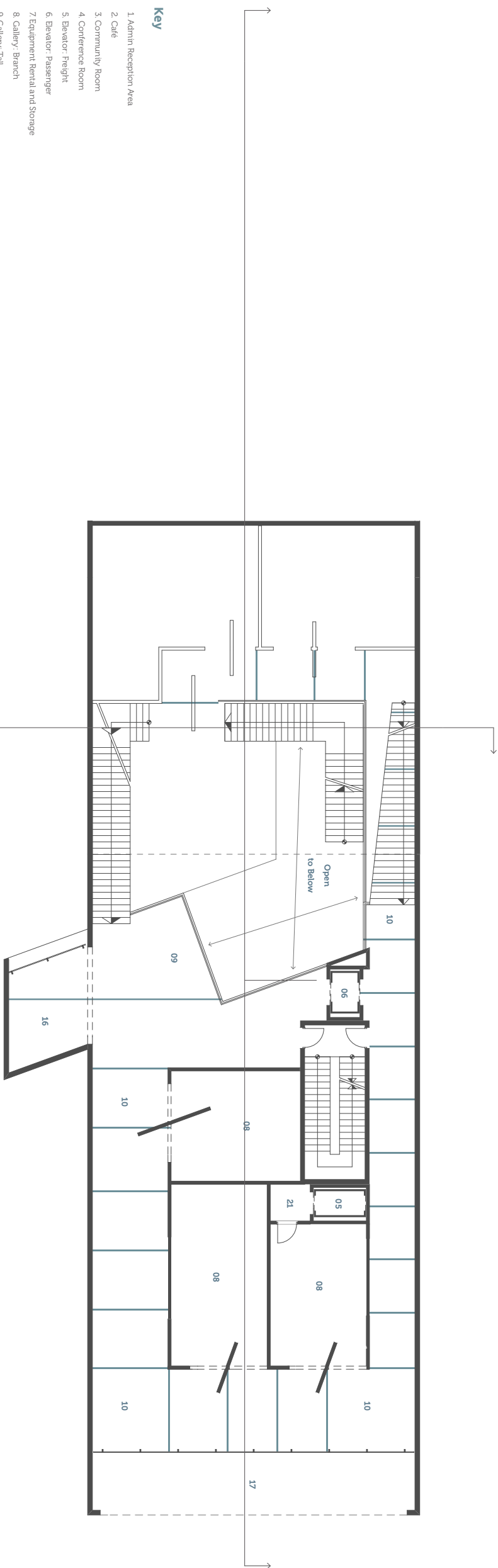
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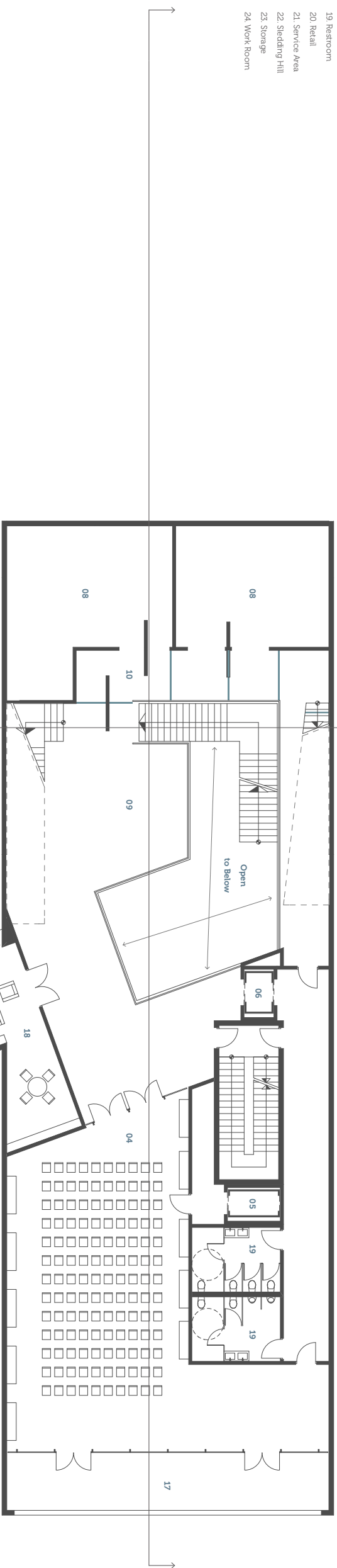
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Key

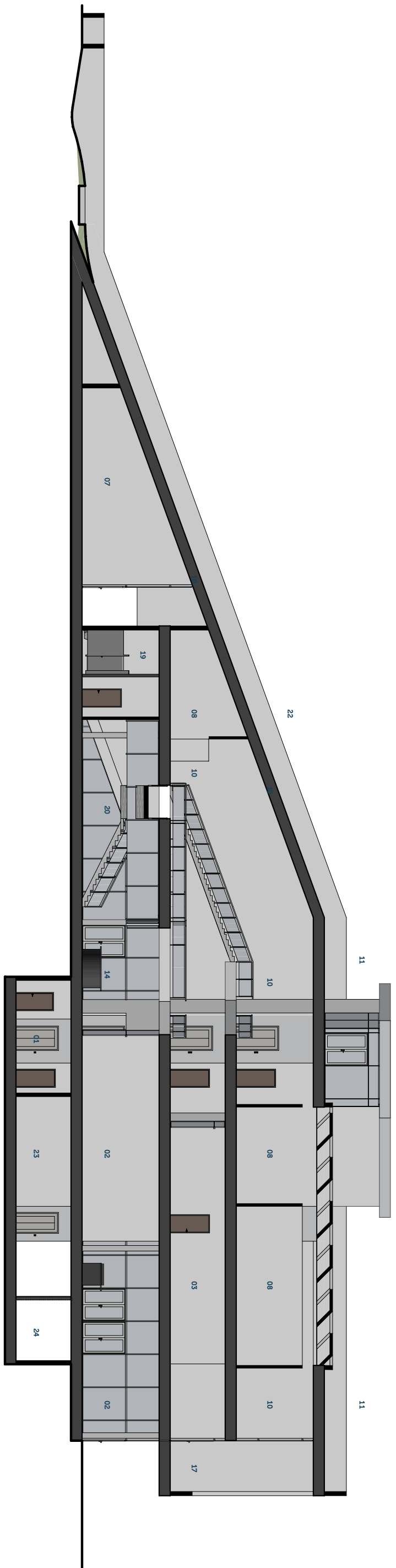
- 1. Admin Reception Area
- 2. Café
- 3. Community Room
- 4. Conference Room
- 5. Elevator: Freight
- 6. Elevator: Passenger
- 7. Equipment Rental and Storage
- 8. Gallery: Branch
- 9. Gallery: Timeline
- 10. Gallery: Tall
- 11. Green Roof
- 12. Kitchen
- 13. Lobby
- 14. Museum Admission Counter
- 15. Office
- 16. Overlook
- 17. Patio
- 18. Reading Room
- 19. Restroom
- 20. Retail
- 21. Service Area
- 22. Stedding Hill
- 23. Storage
- 24. Work Room



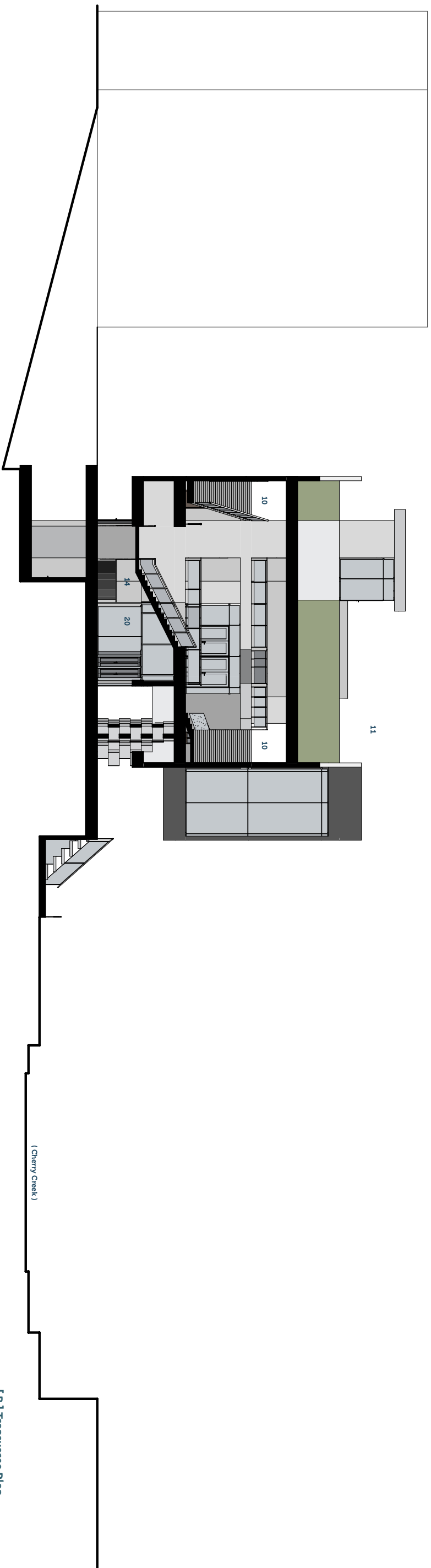
[3] Museum Level Plan
Scale: 1/8" = 1'



[2] Community Level Plan
Scale: 1/8" = 1'



[A] Longitudinal Section
Scale: 1/8" = 1'



[B] Transverse Plan
Scale: 1/8" = 1'