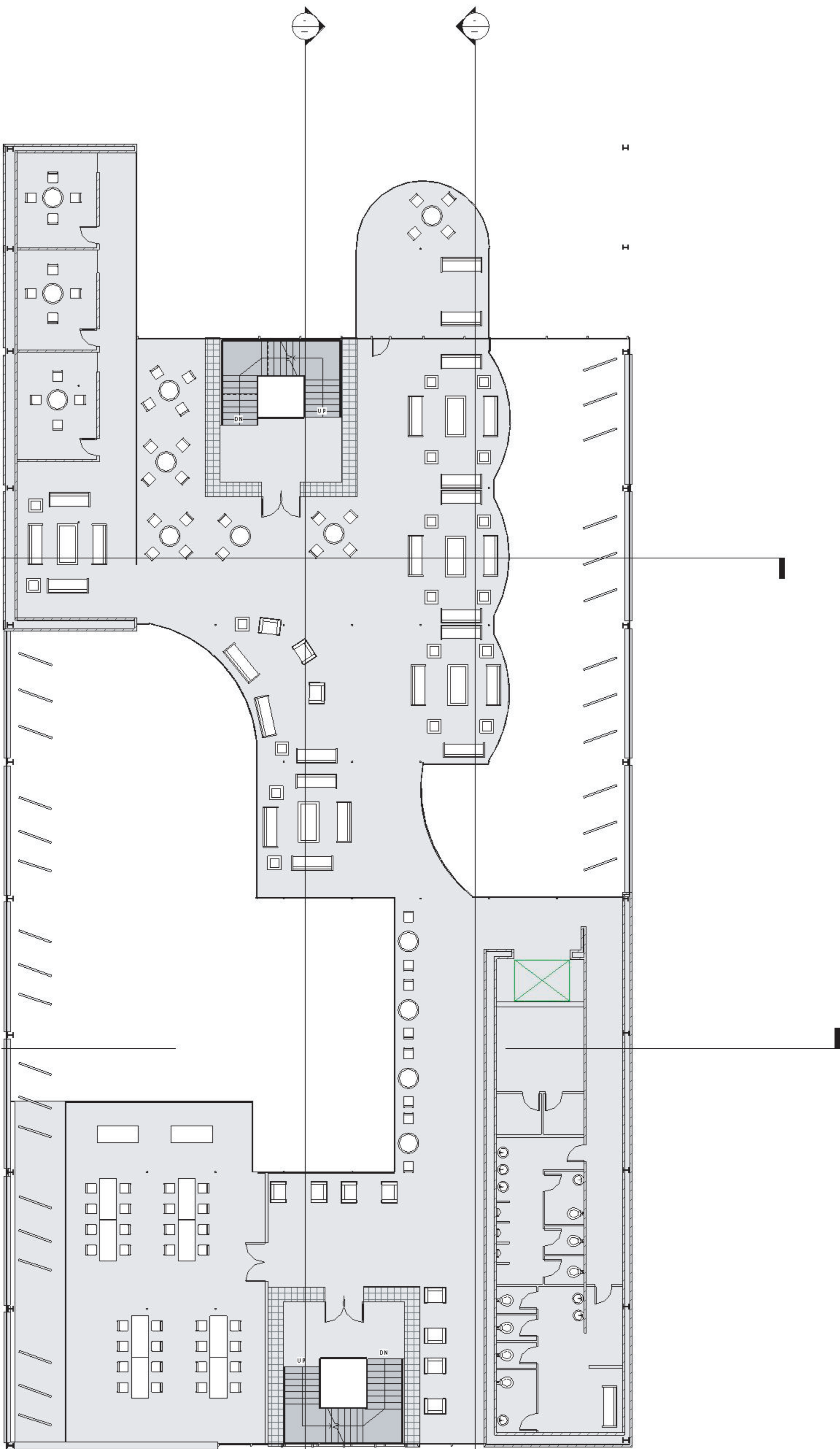
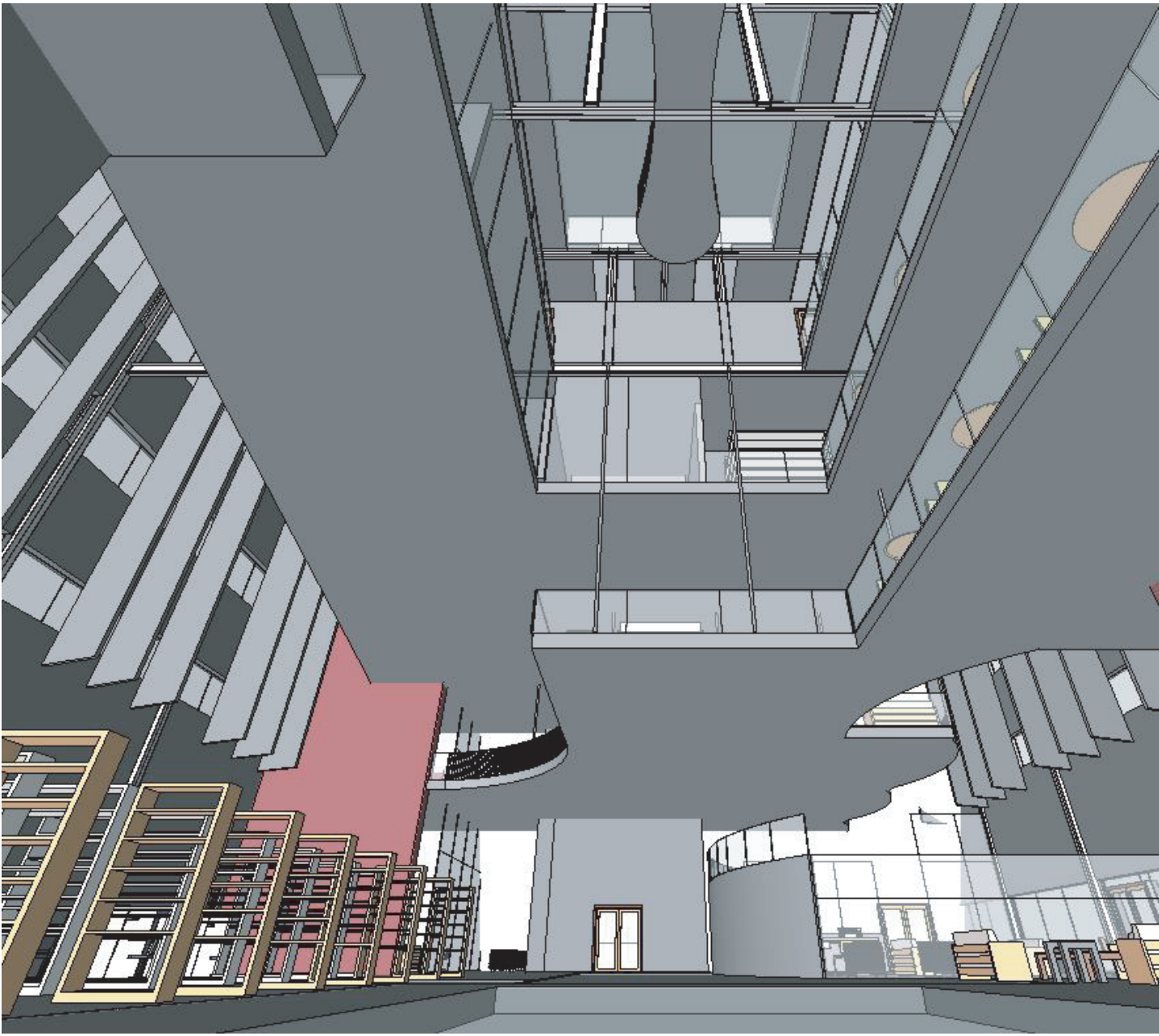
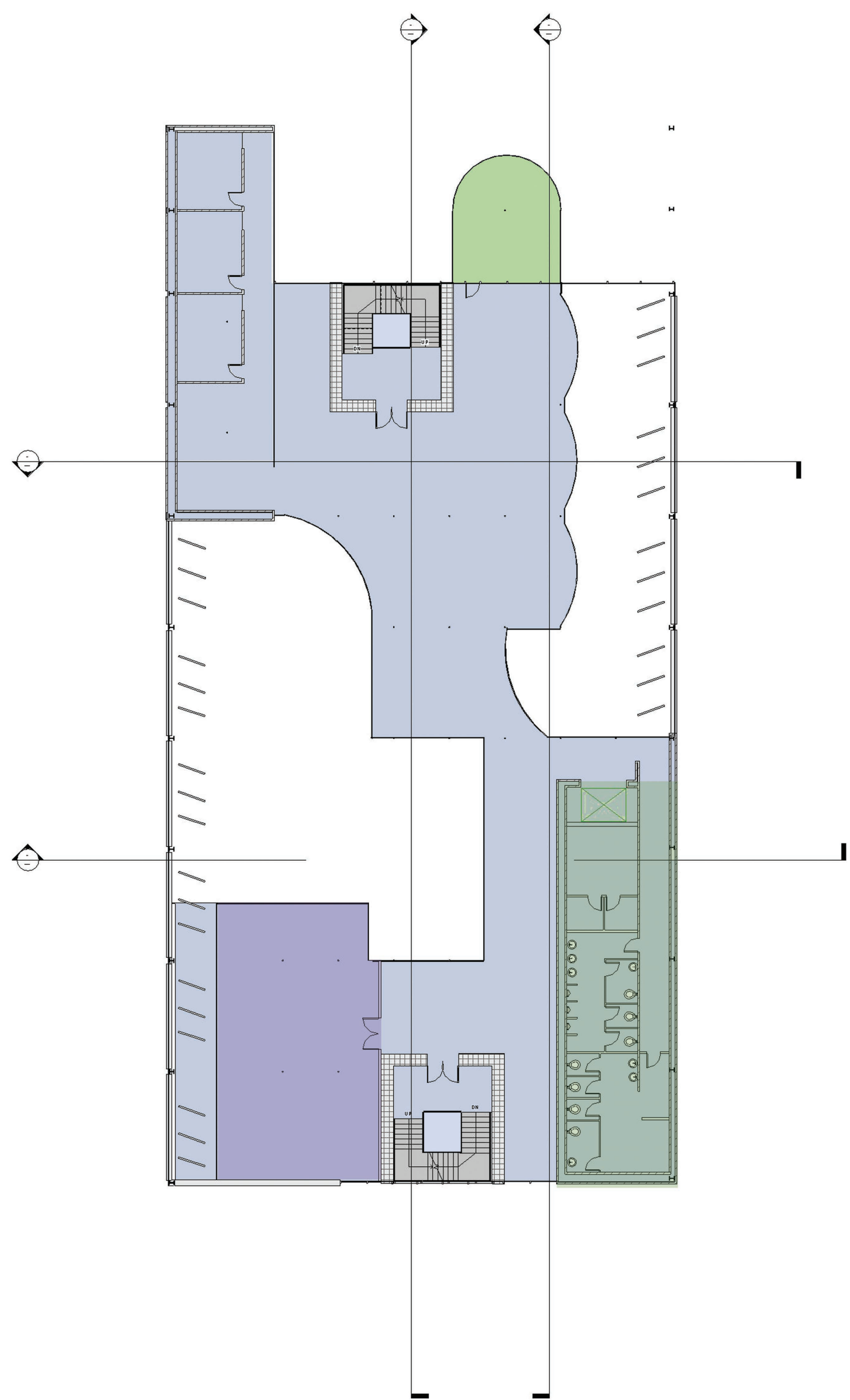
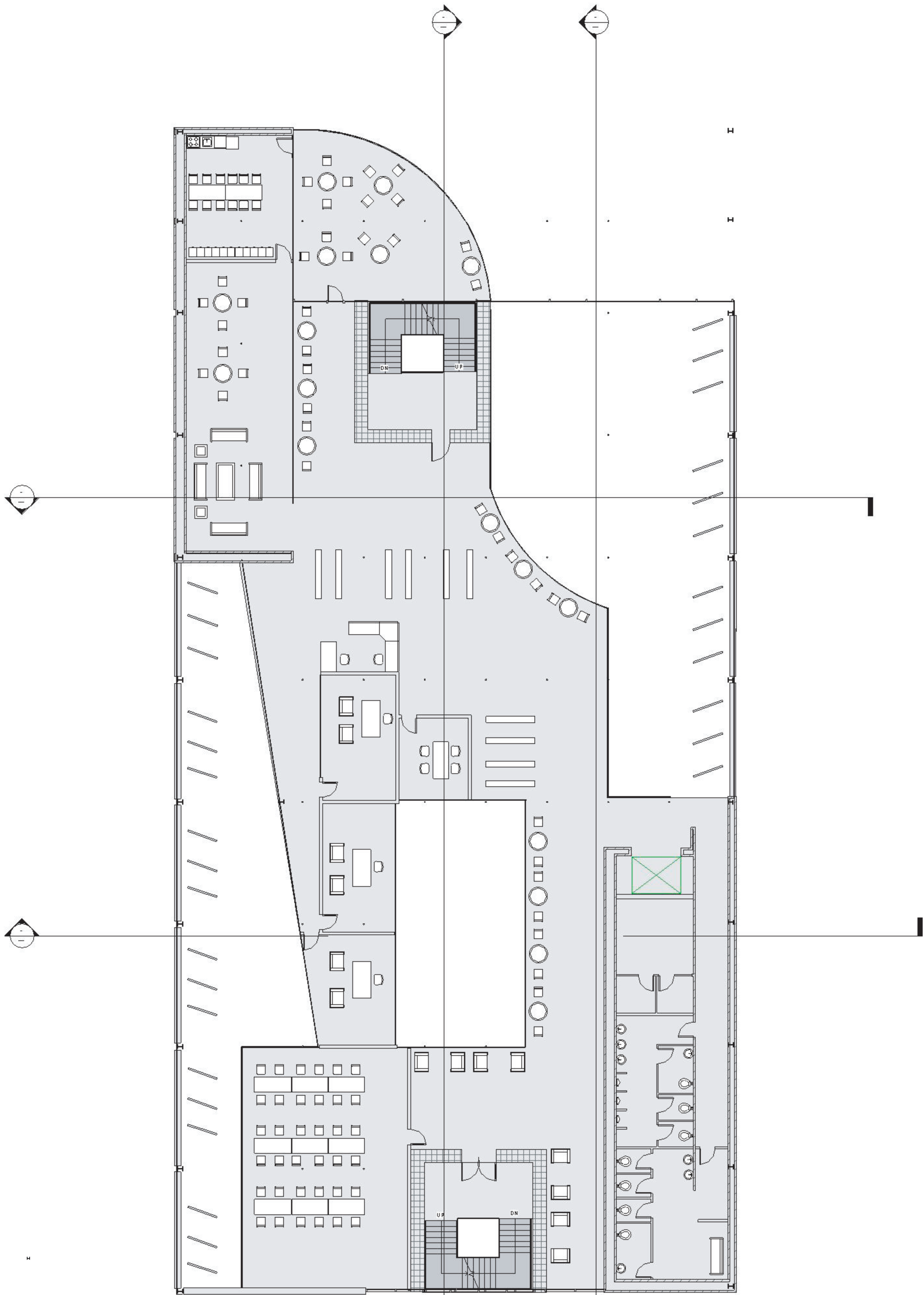


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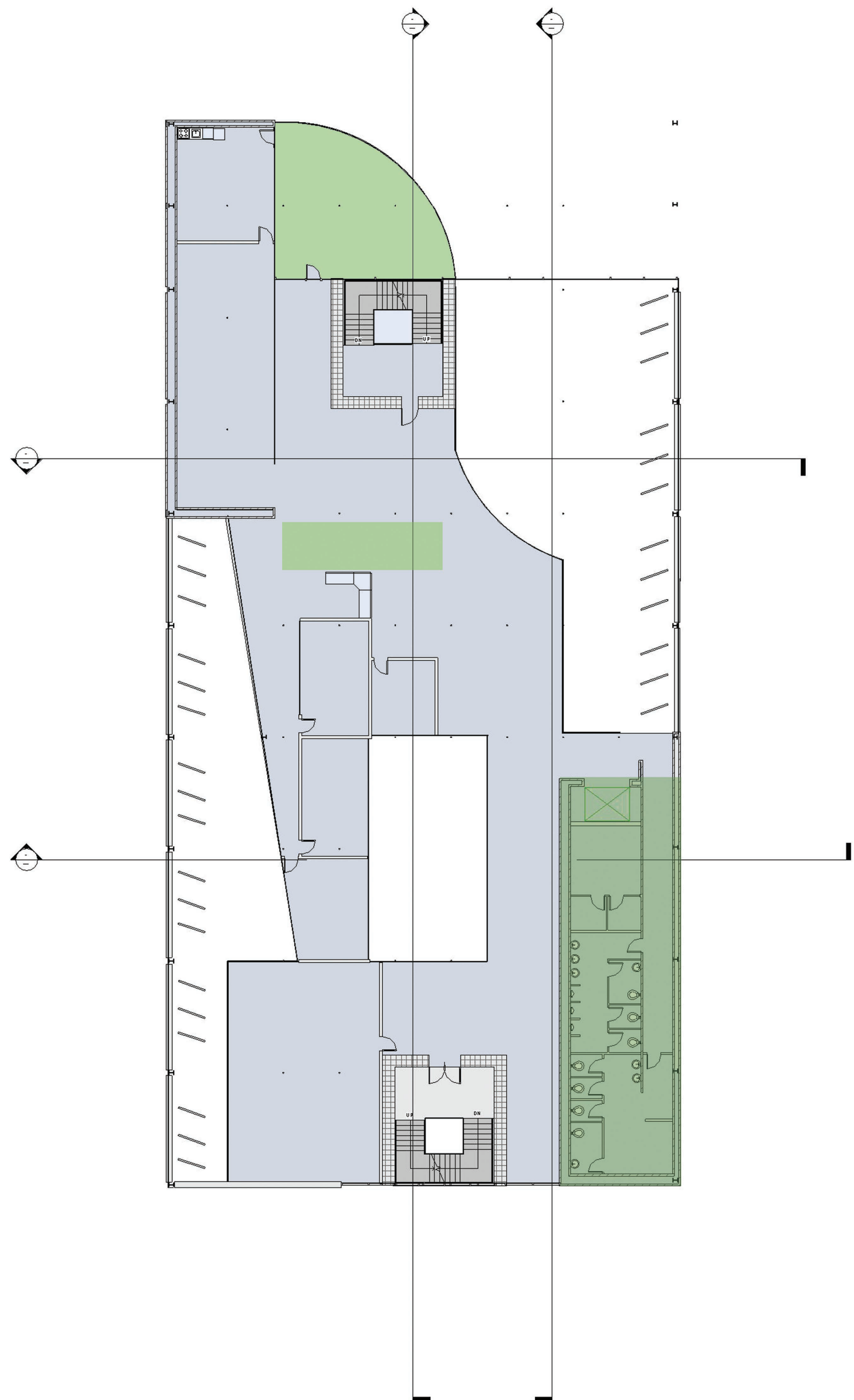


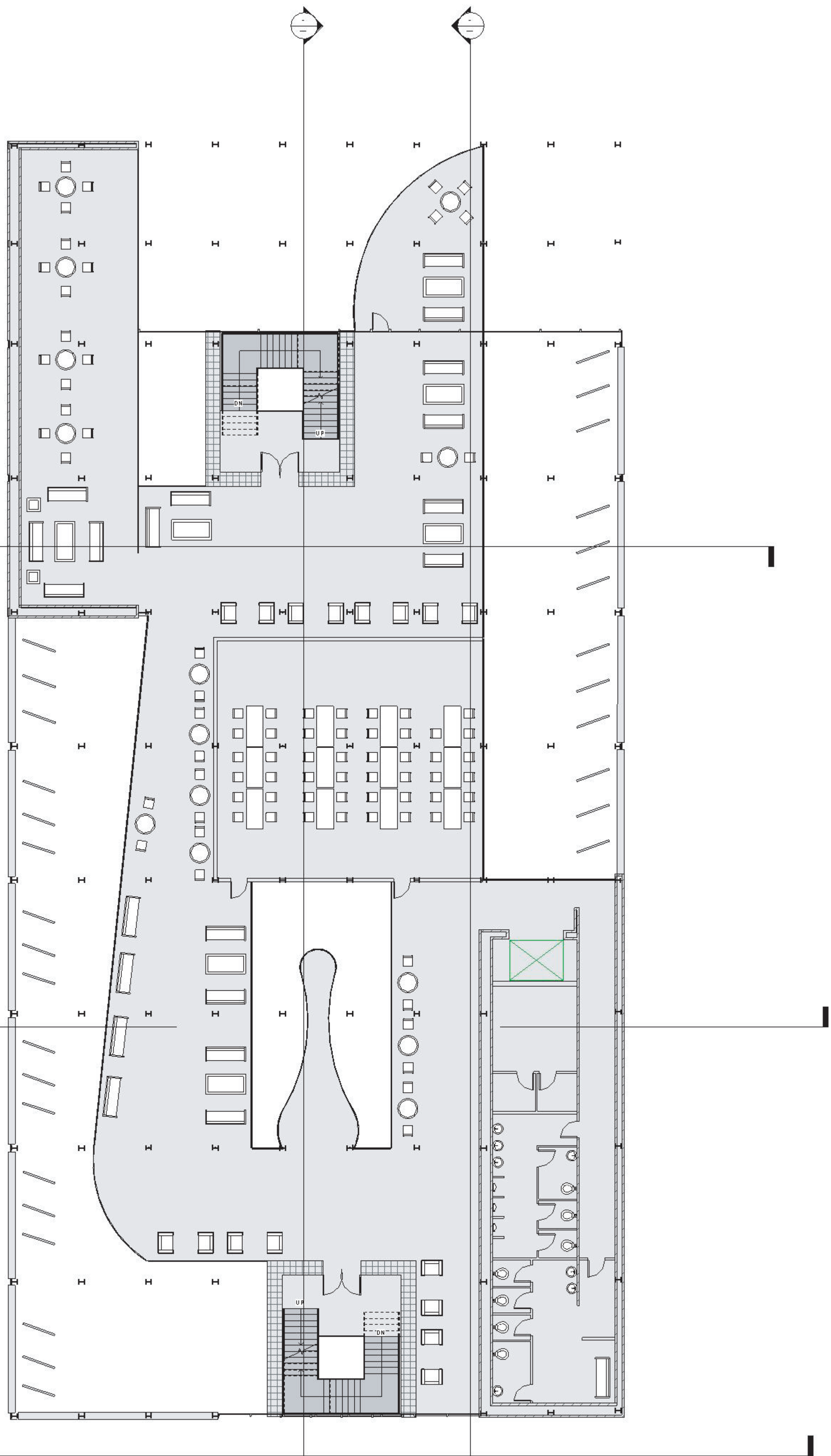
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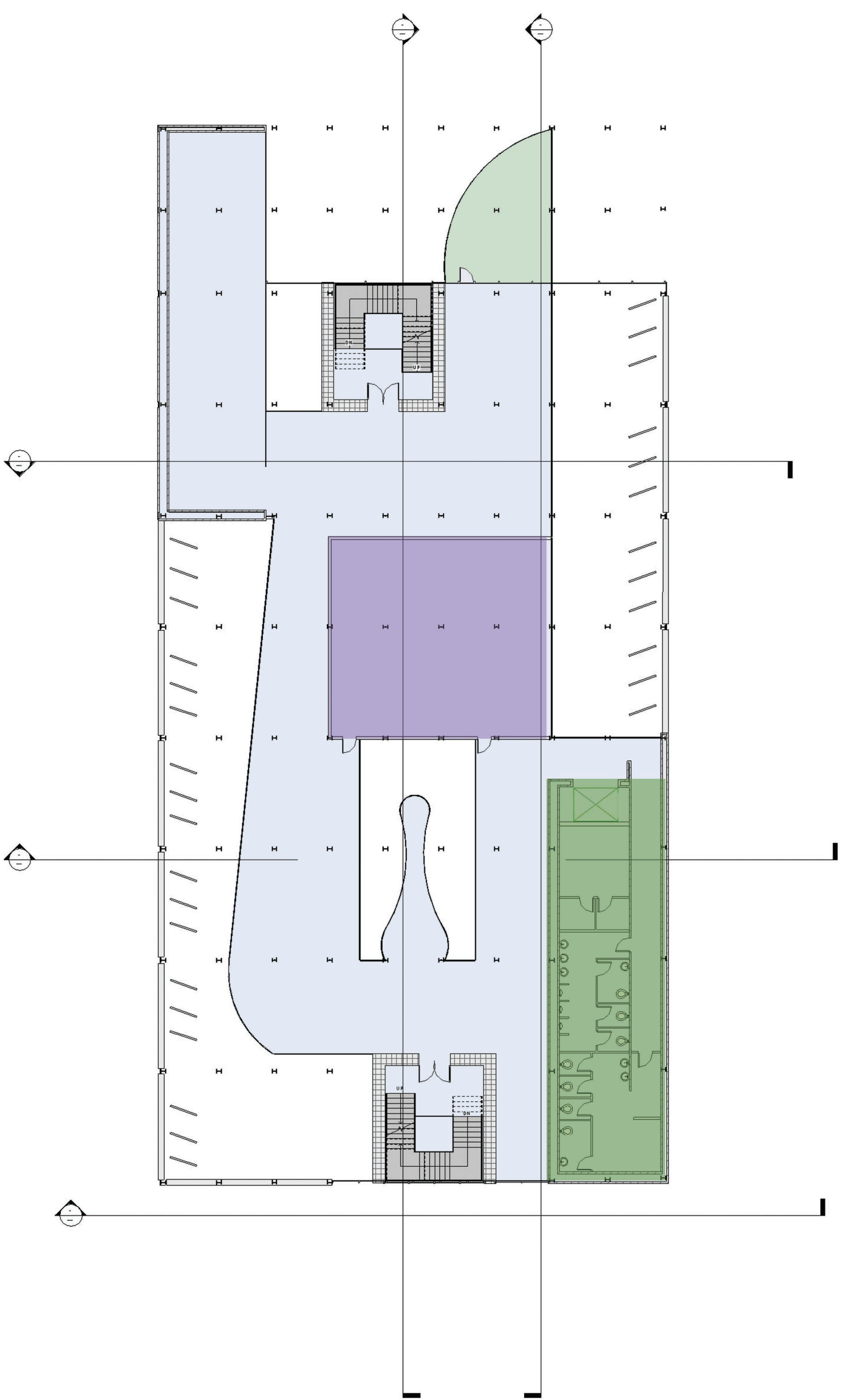


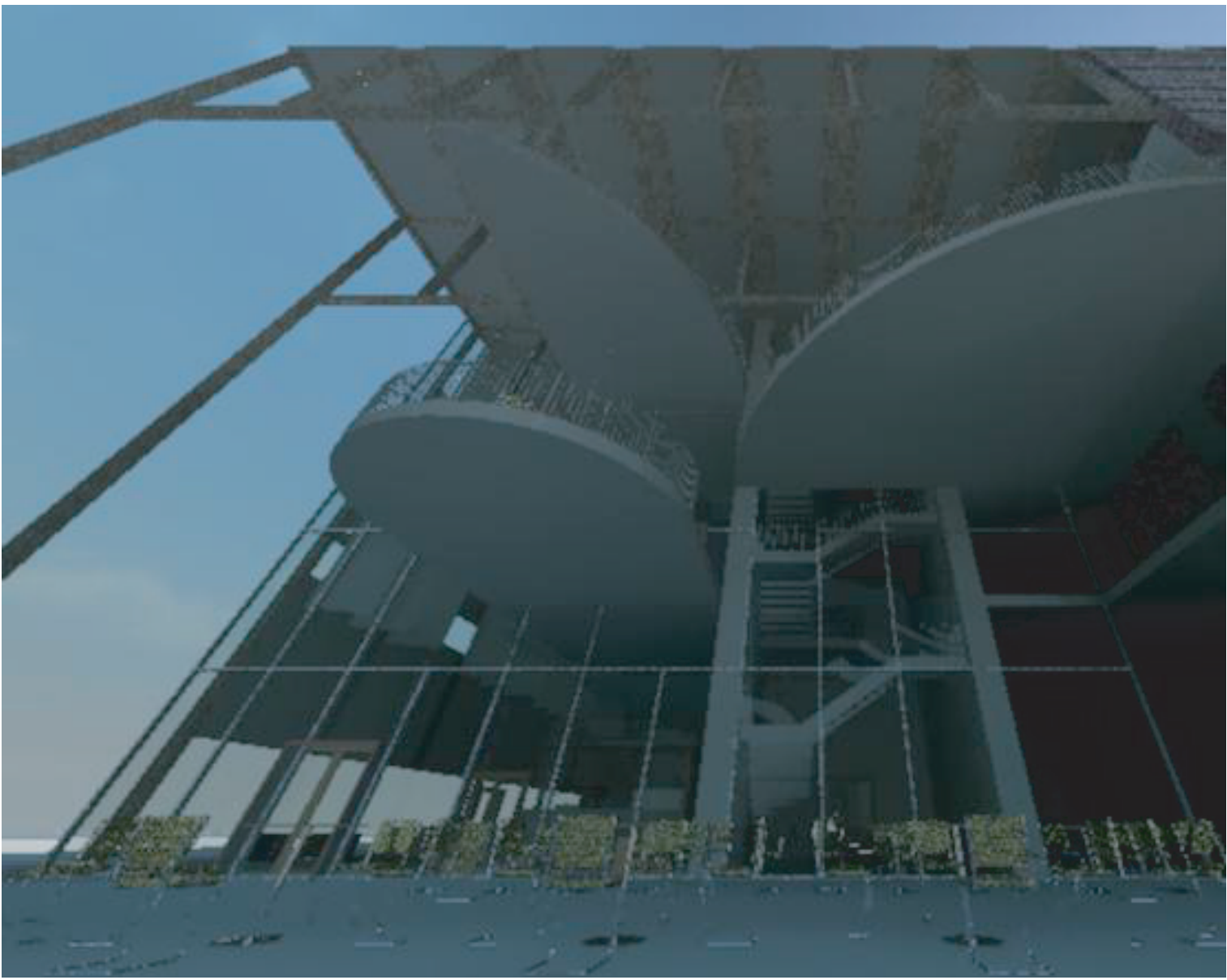
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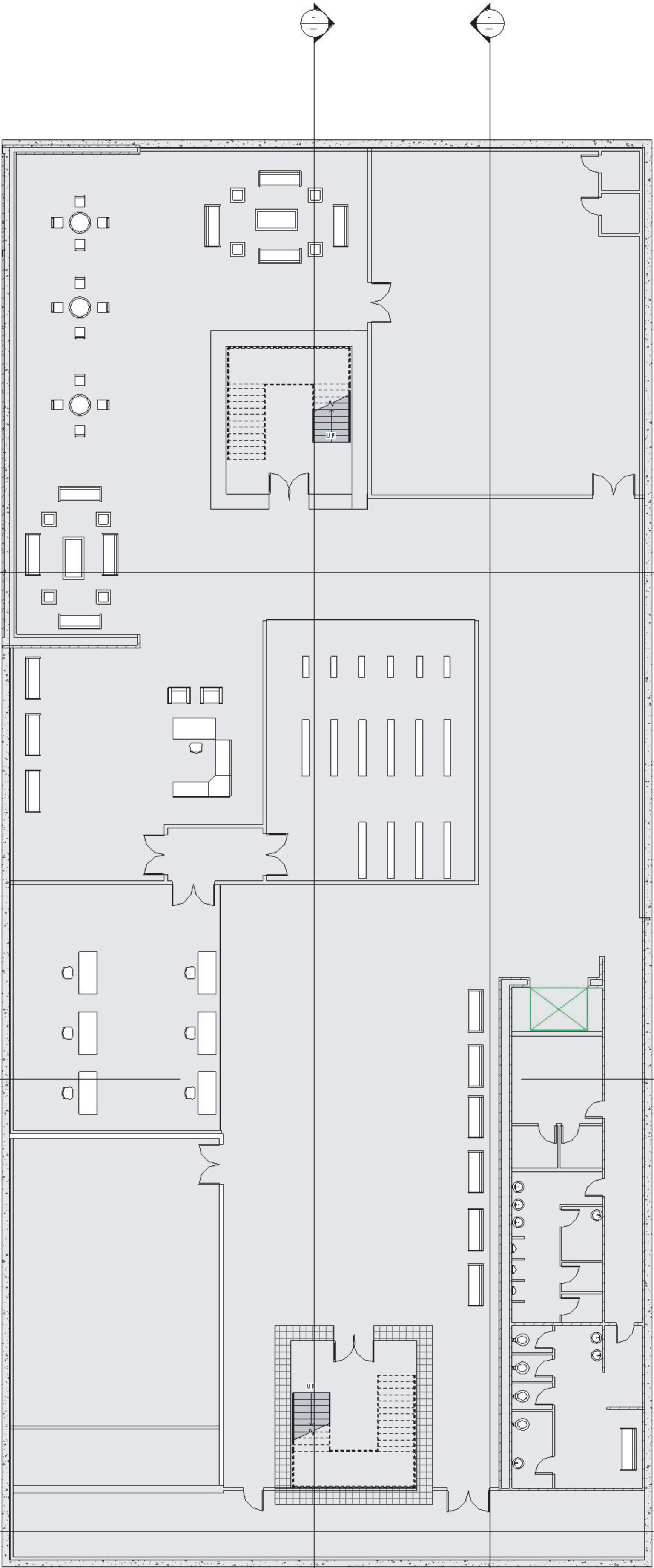
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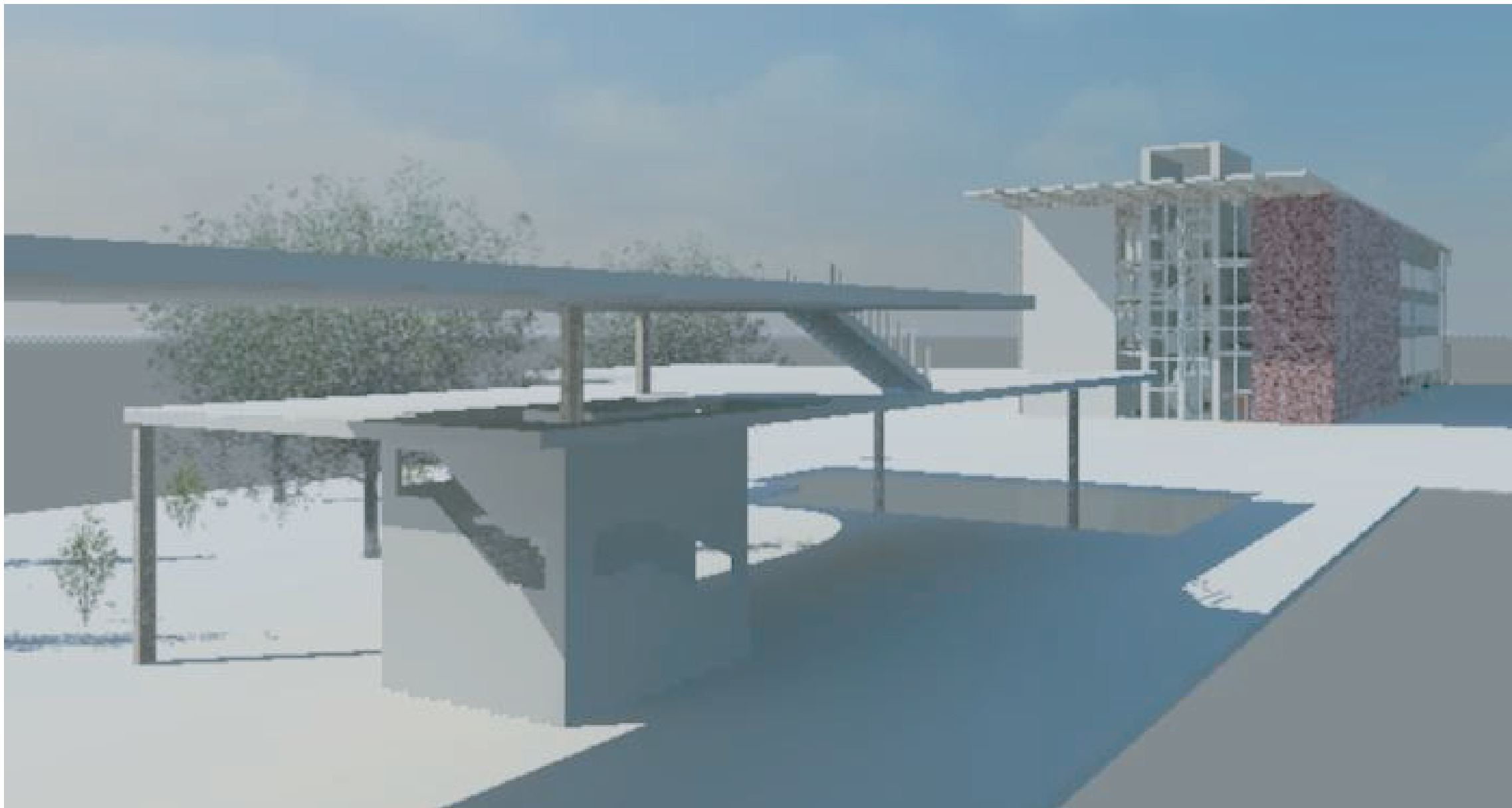
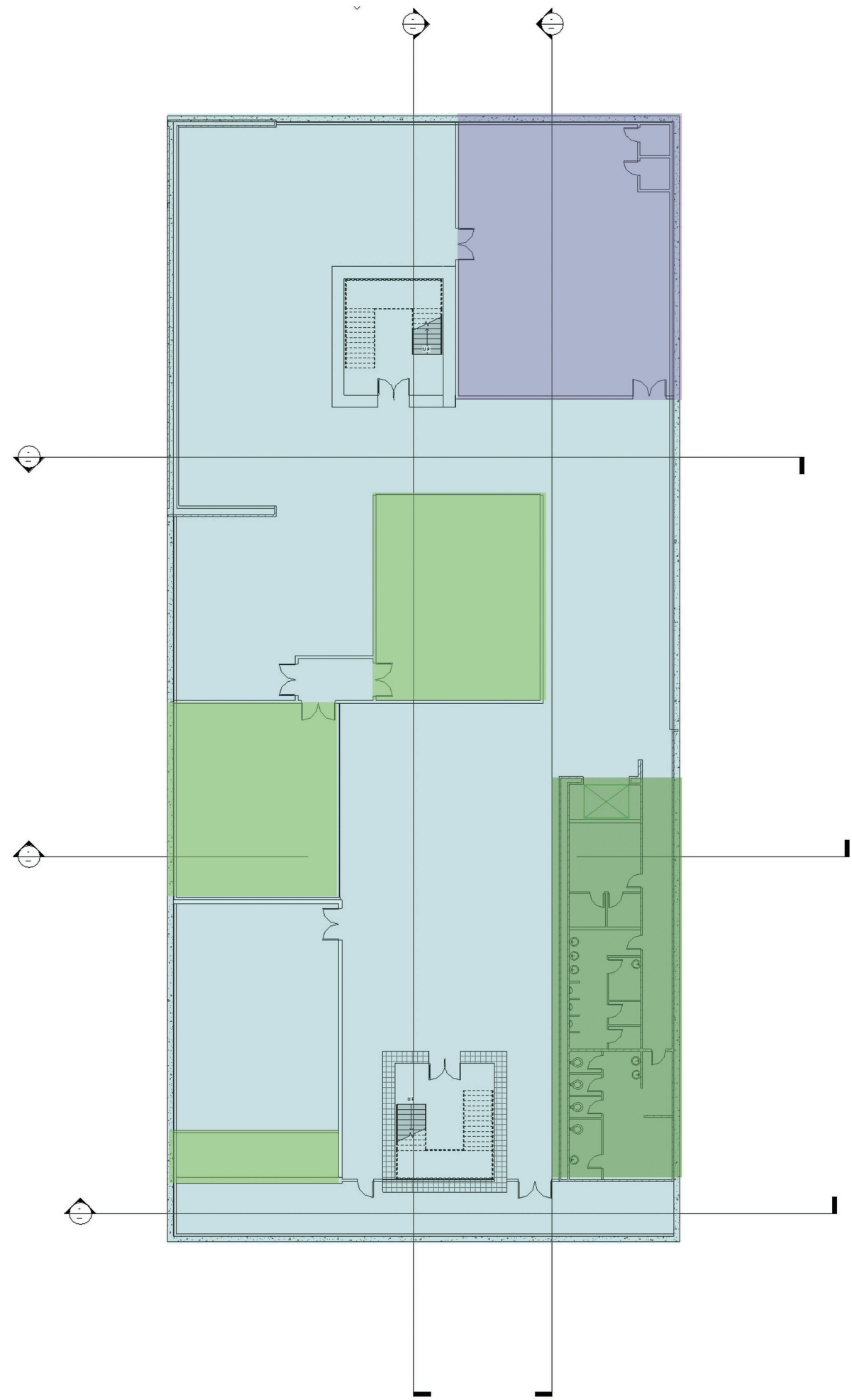


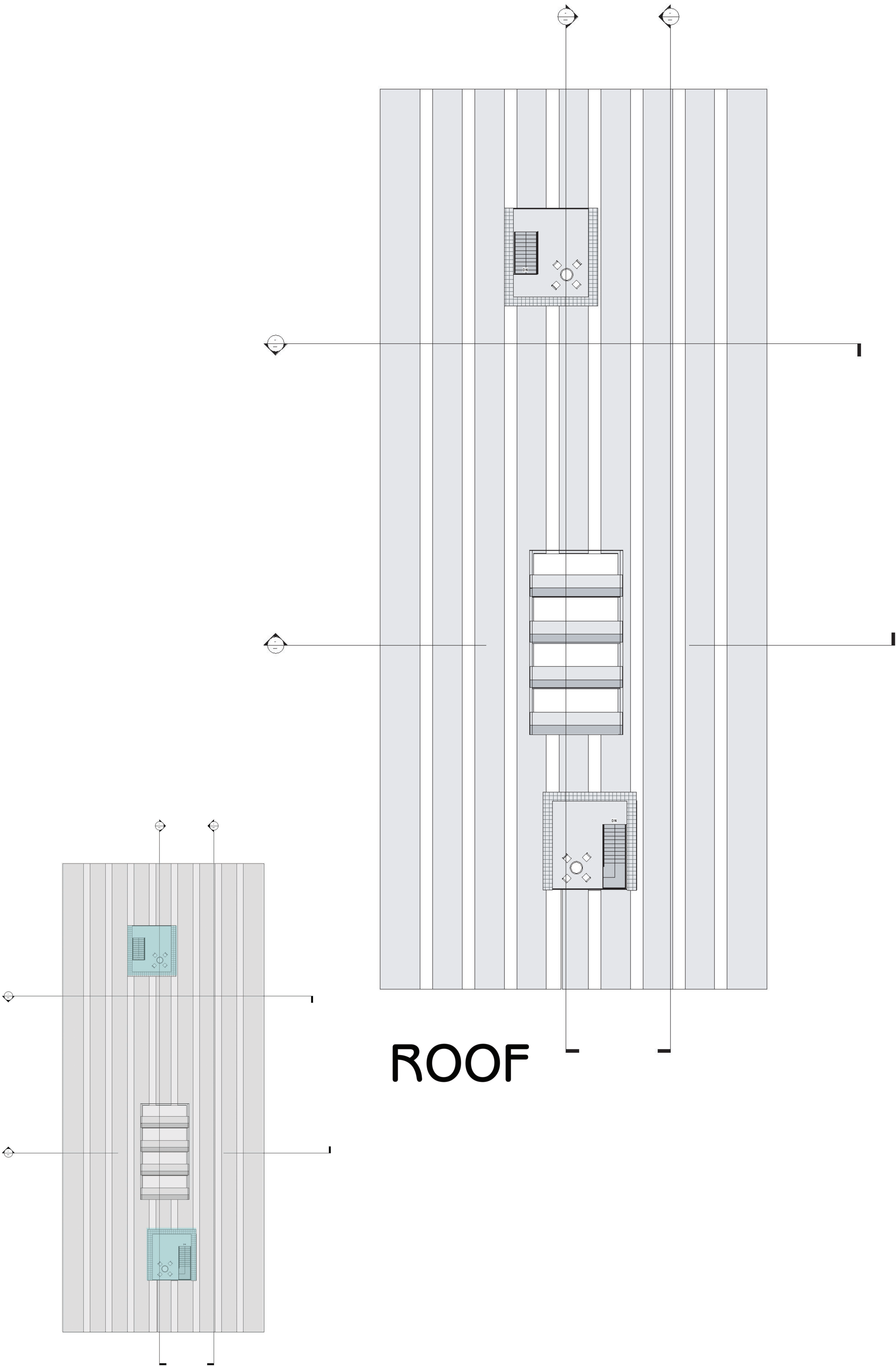
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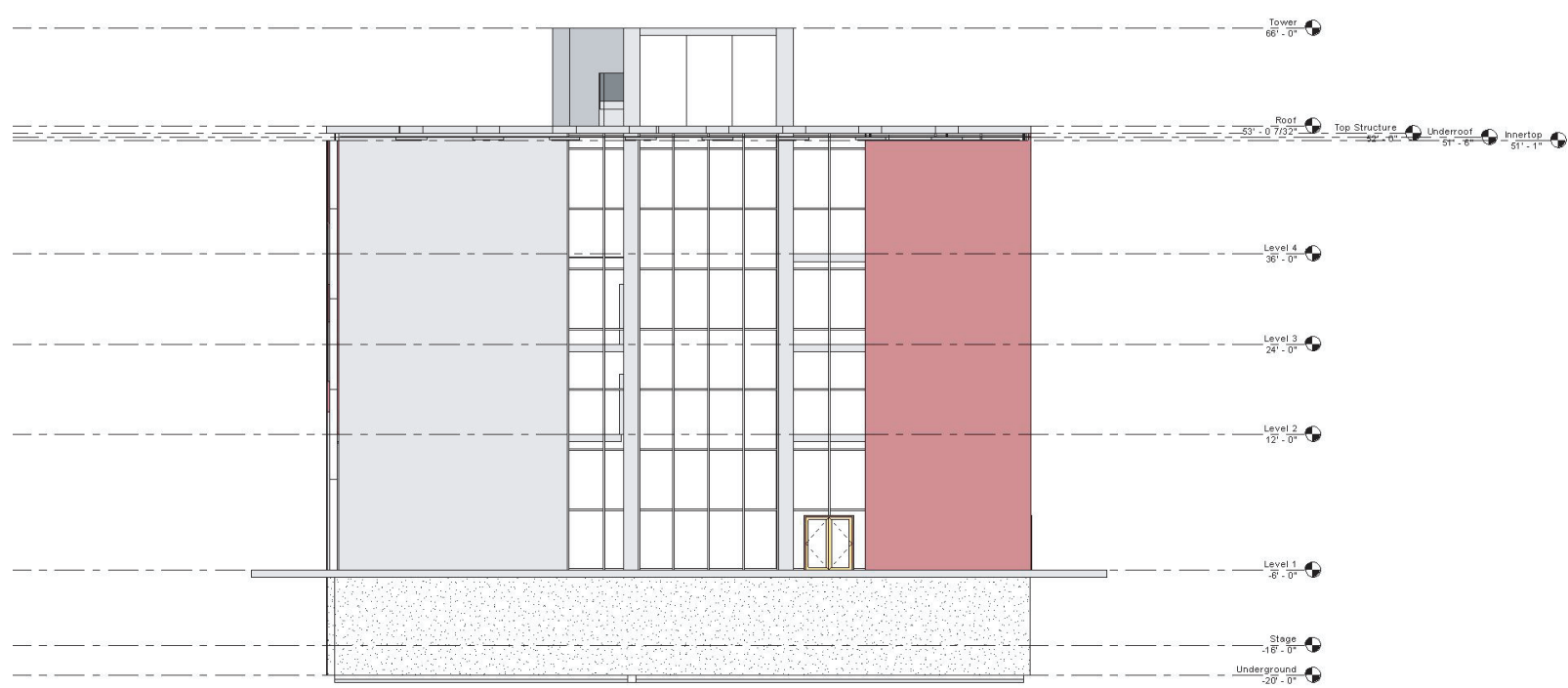
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- 60psf
- 100psf
- 110psf
- 120psf
- 150psf
- 250psf



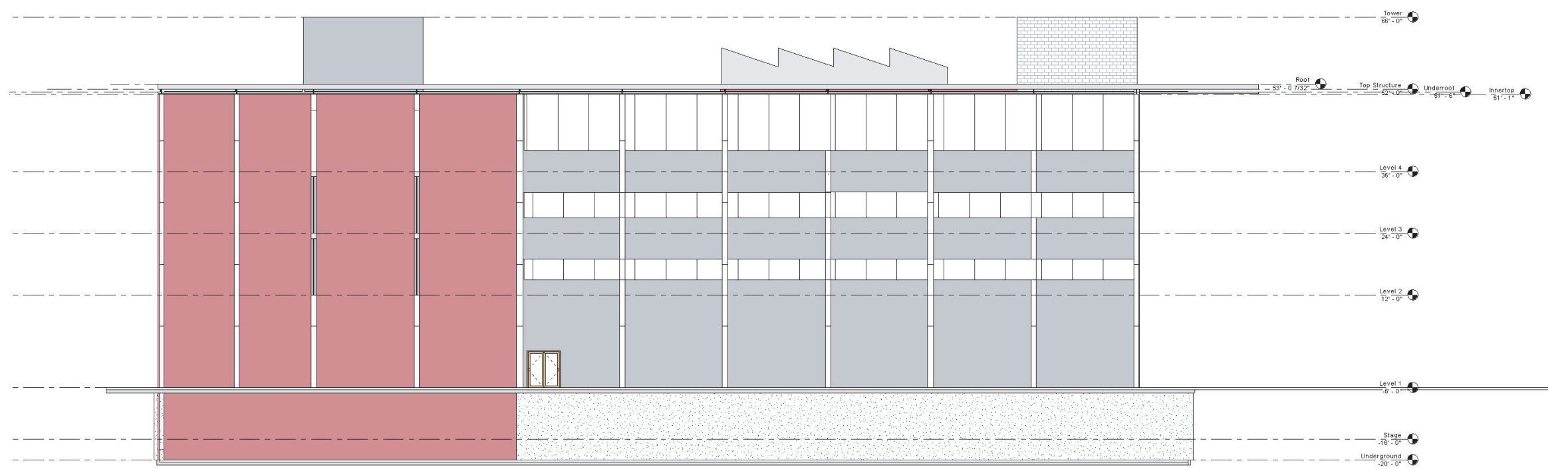
BASEMENT



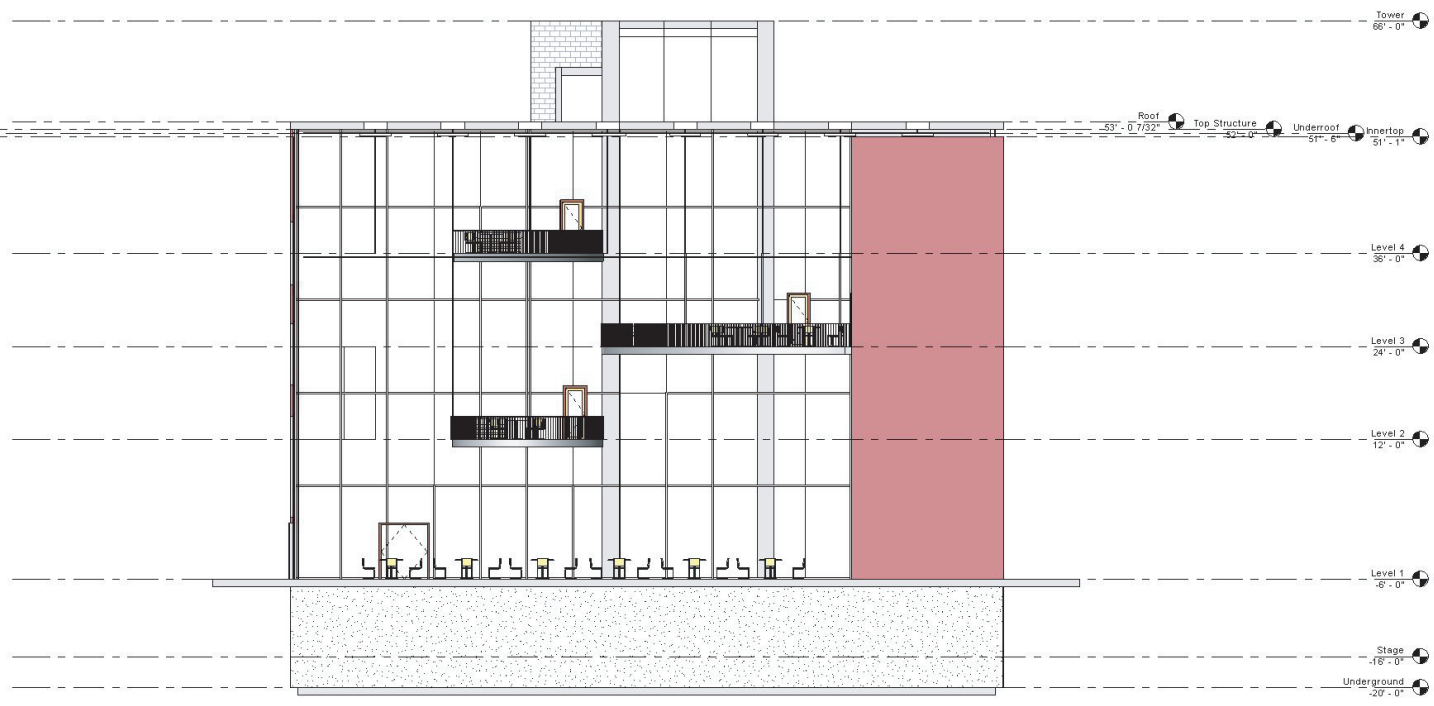




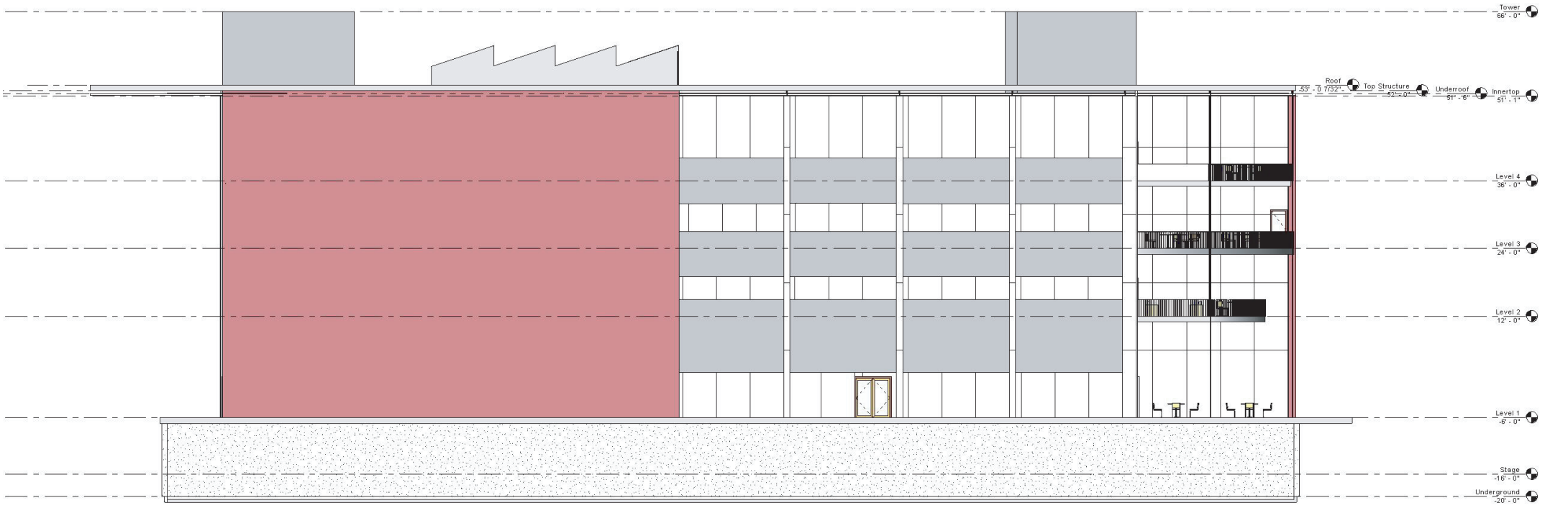
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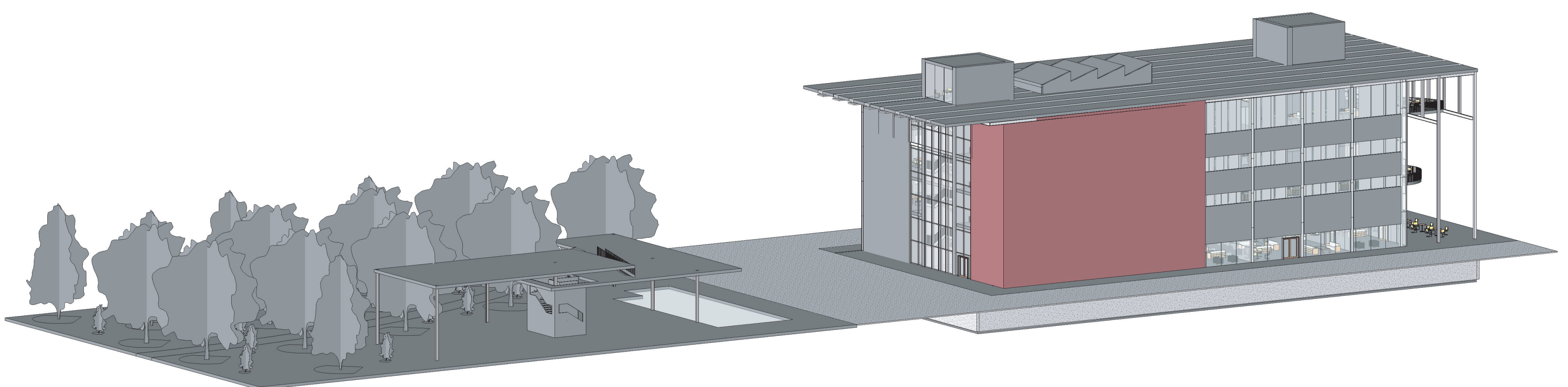
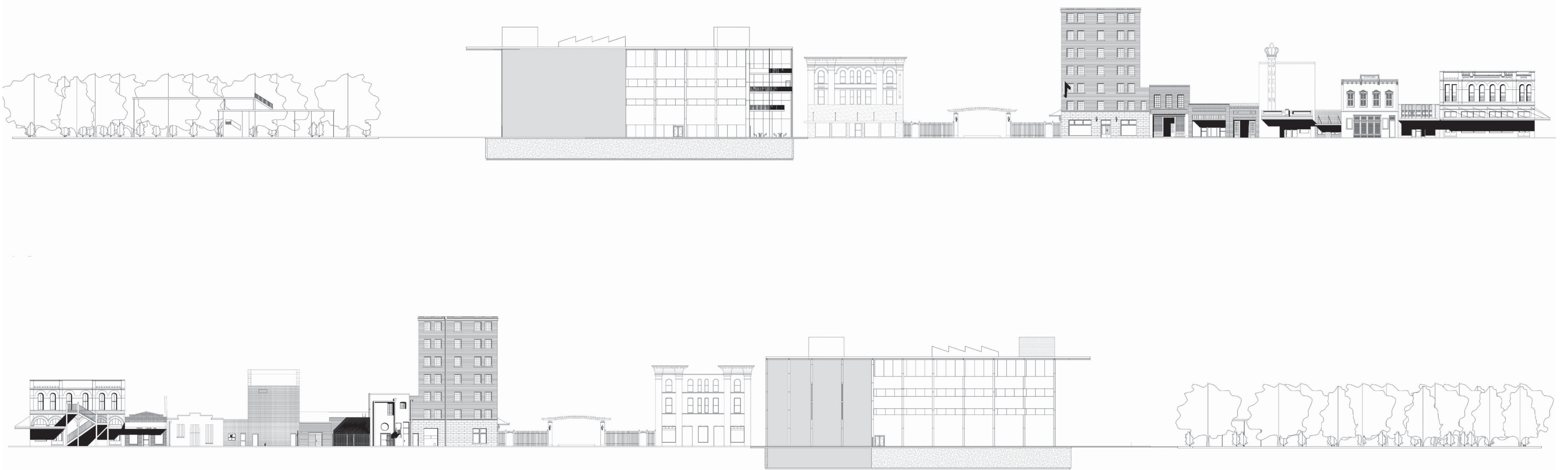
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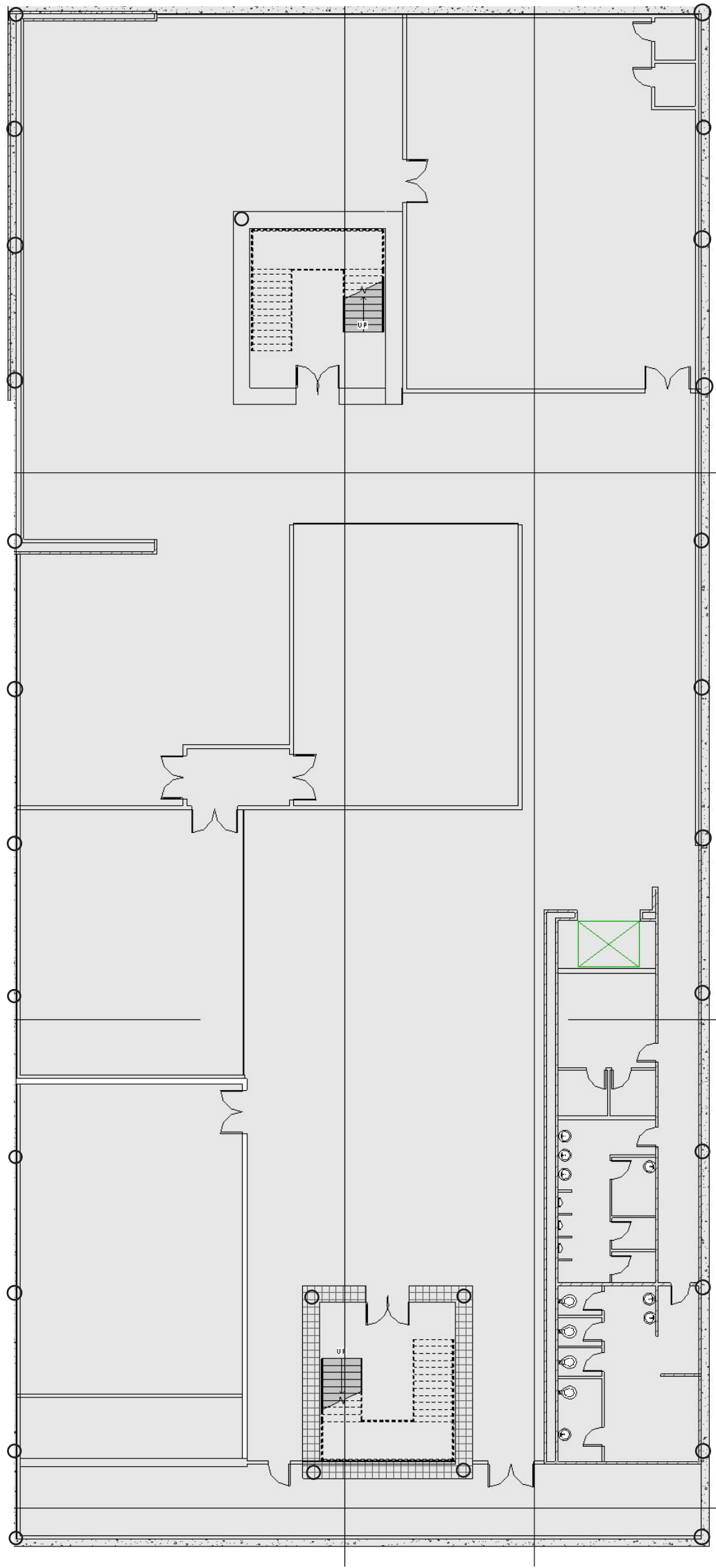


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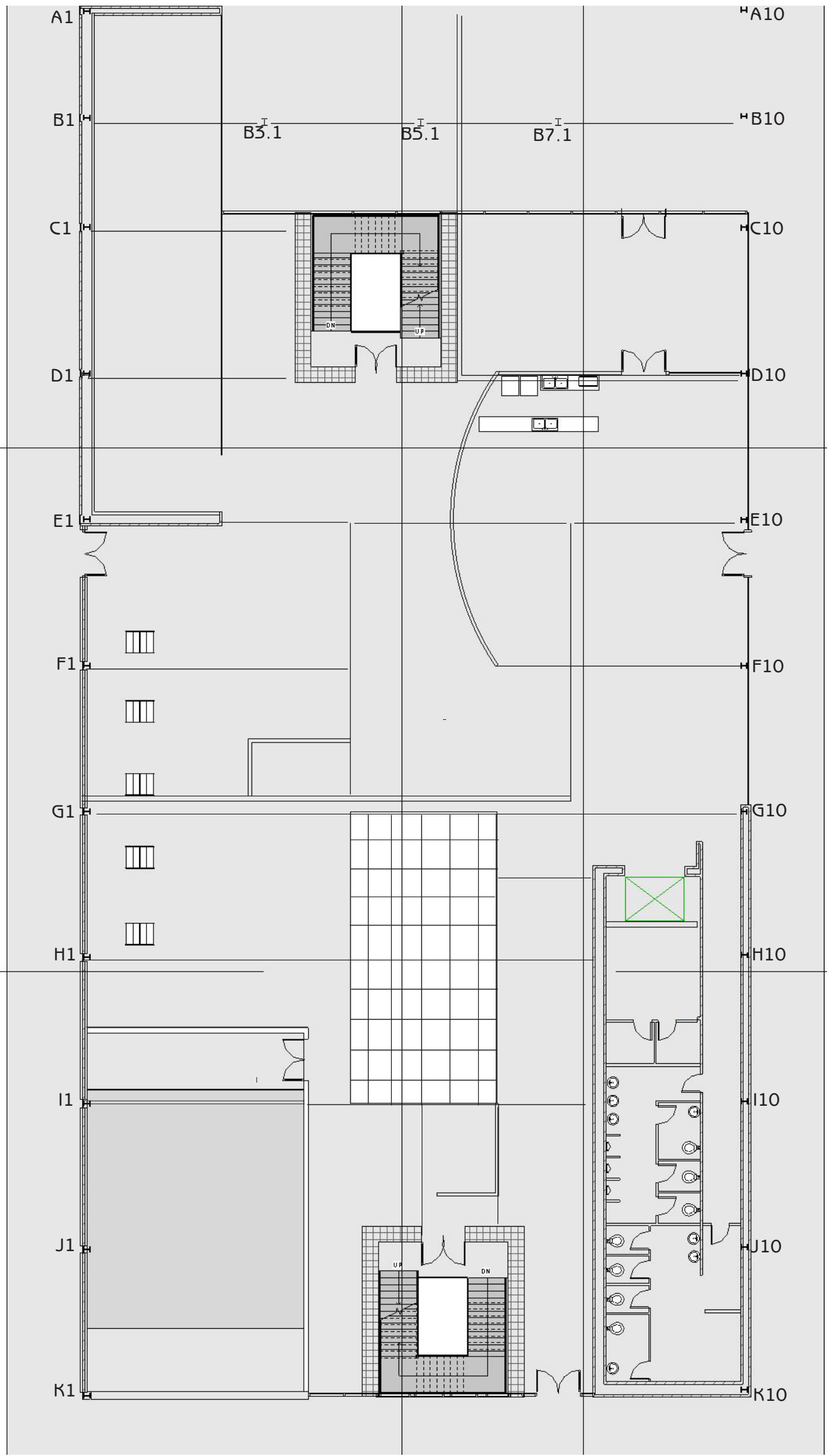


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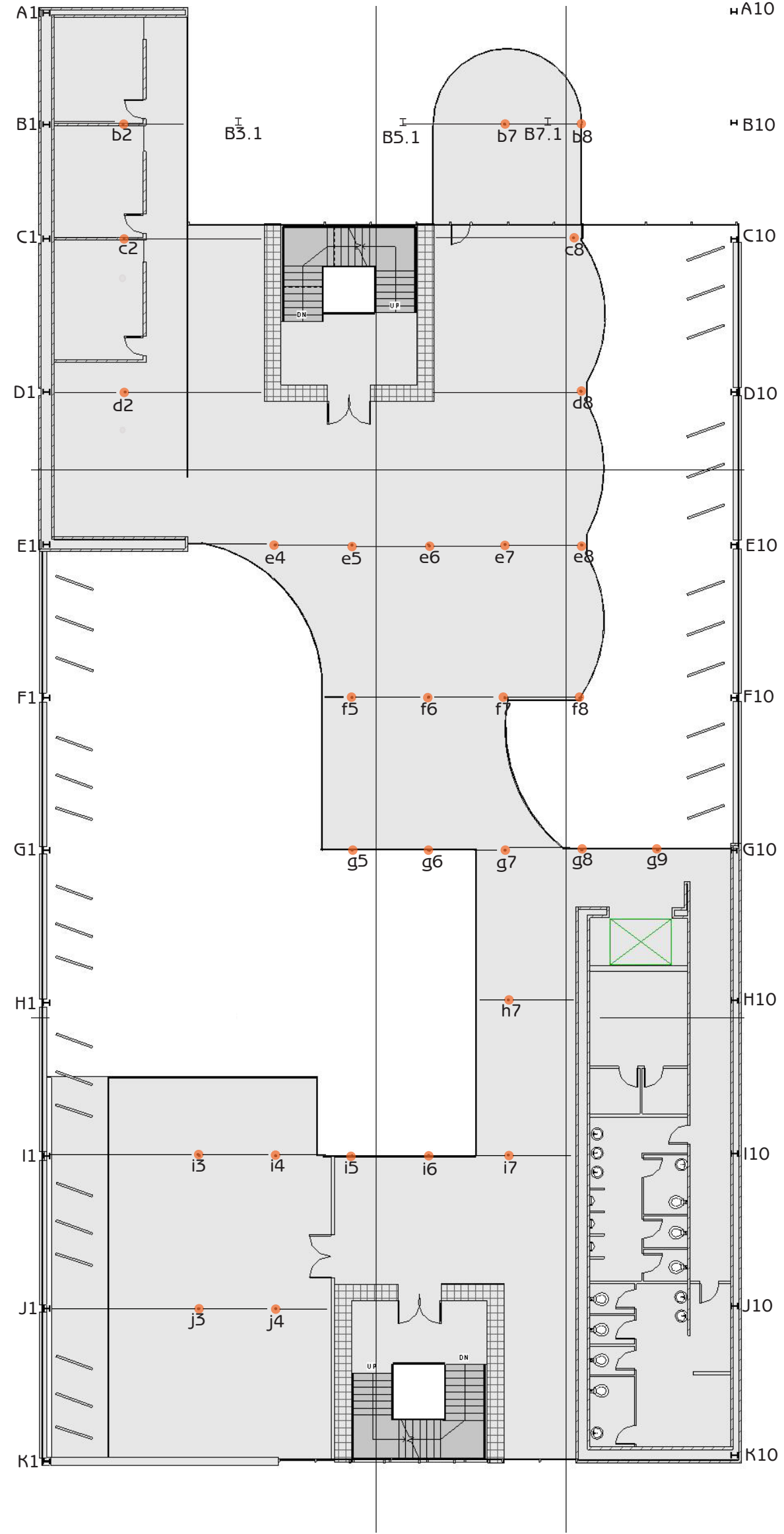




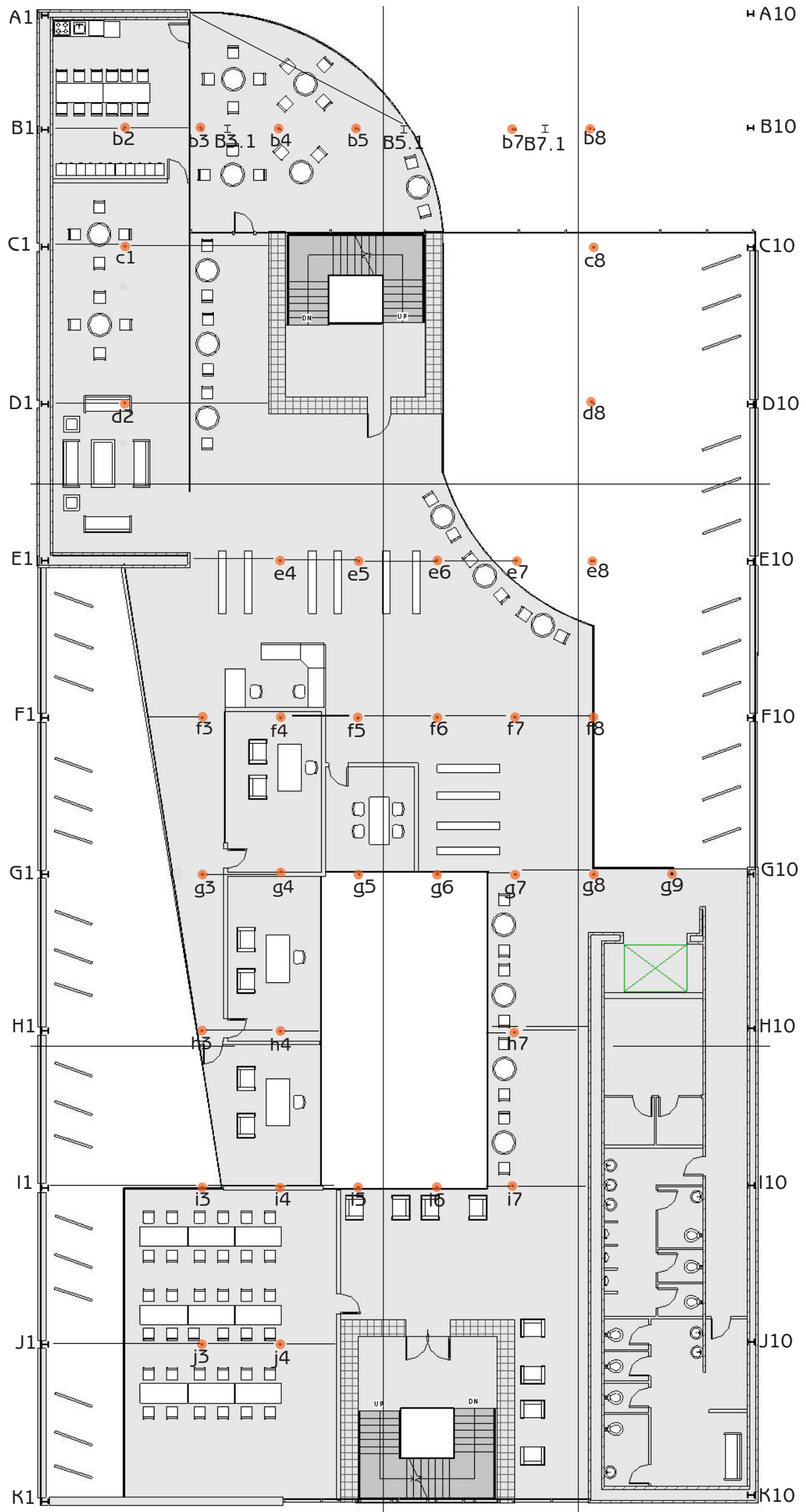
BASEMENT



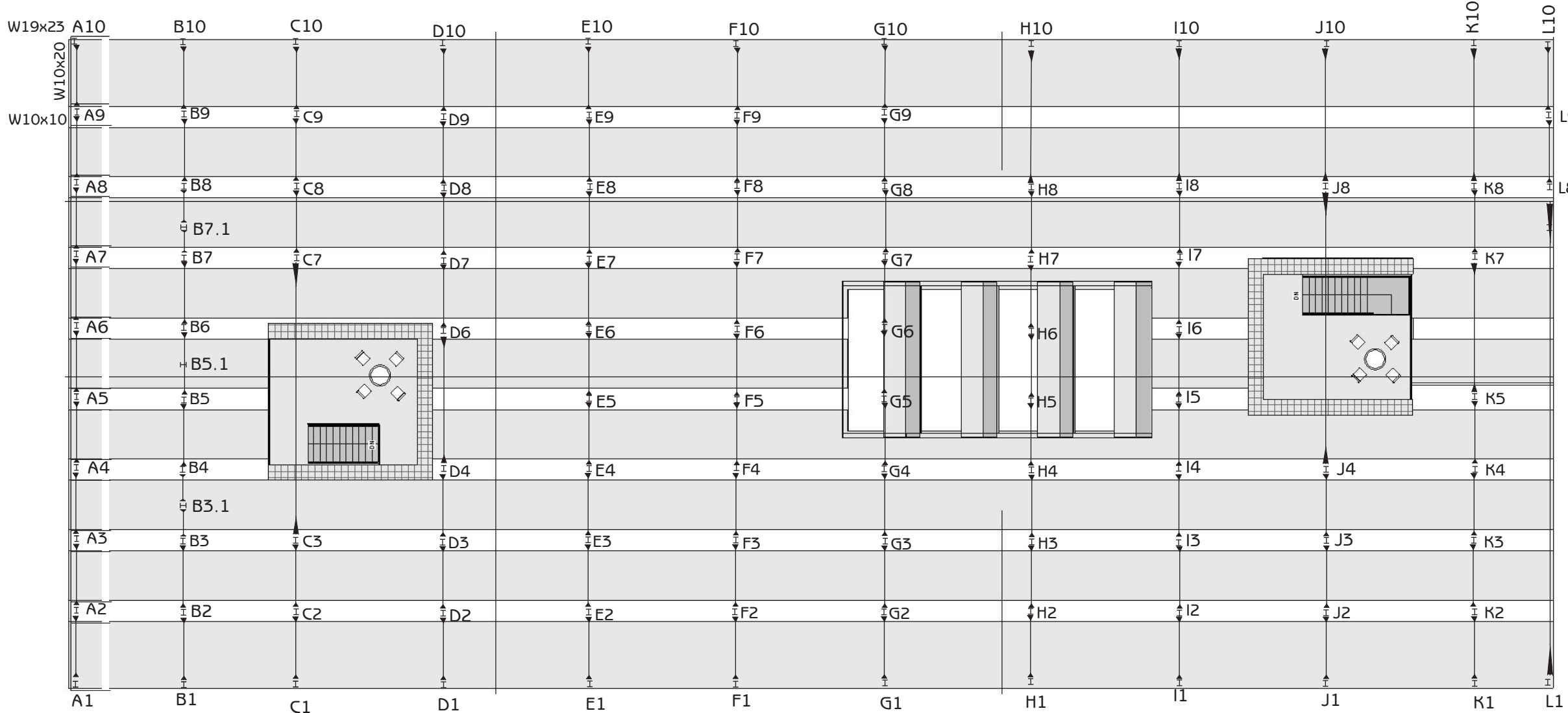
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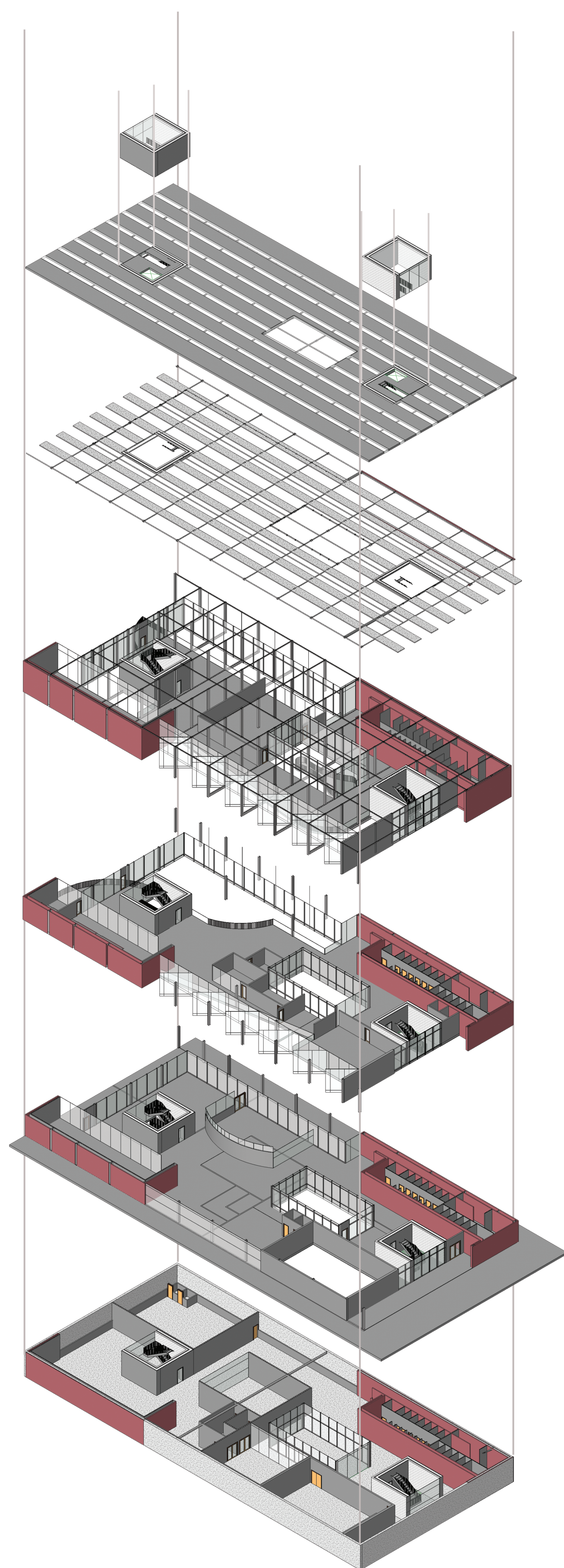
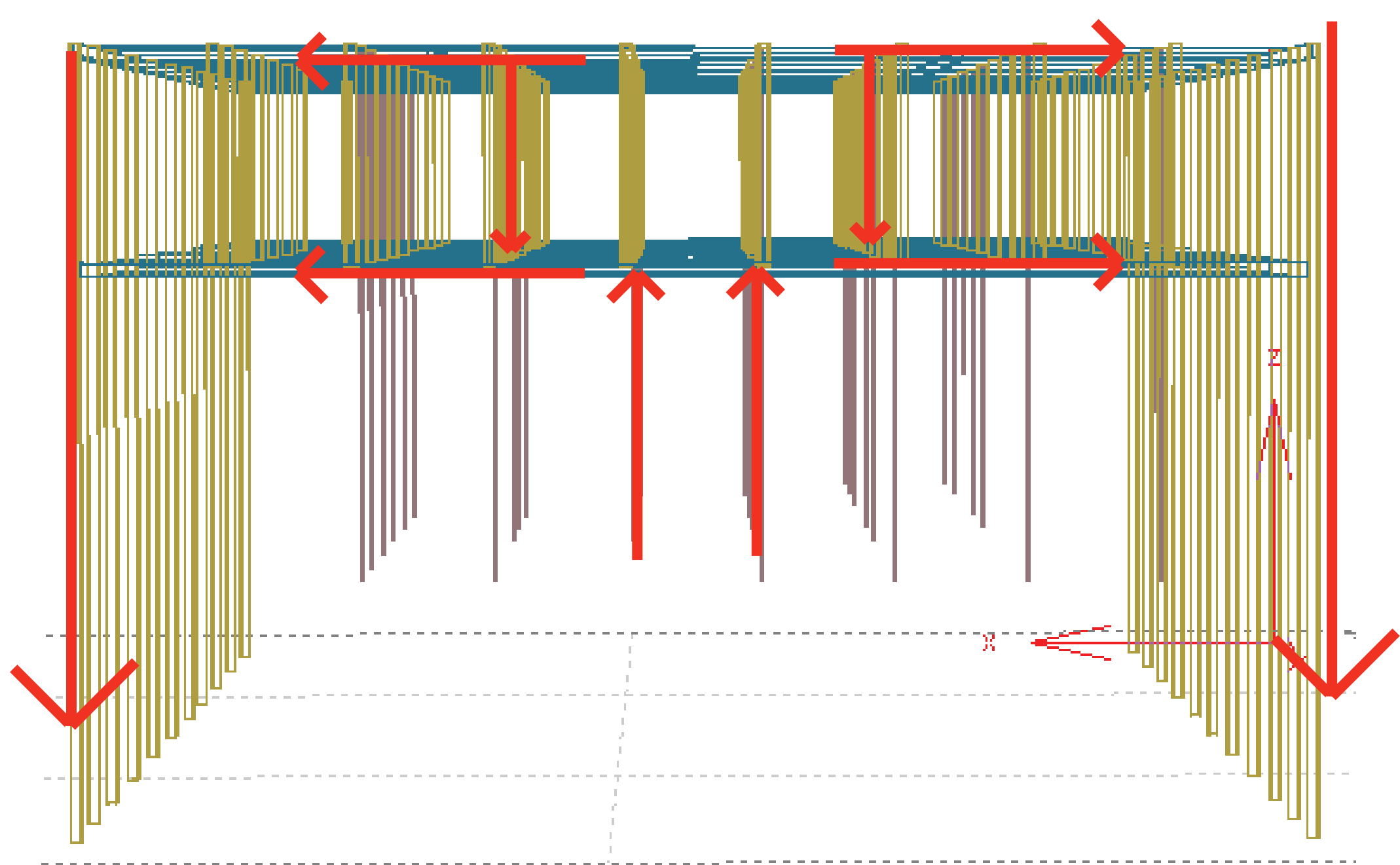
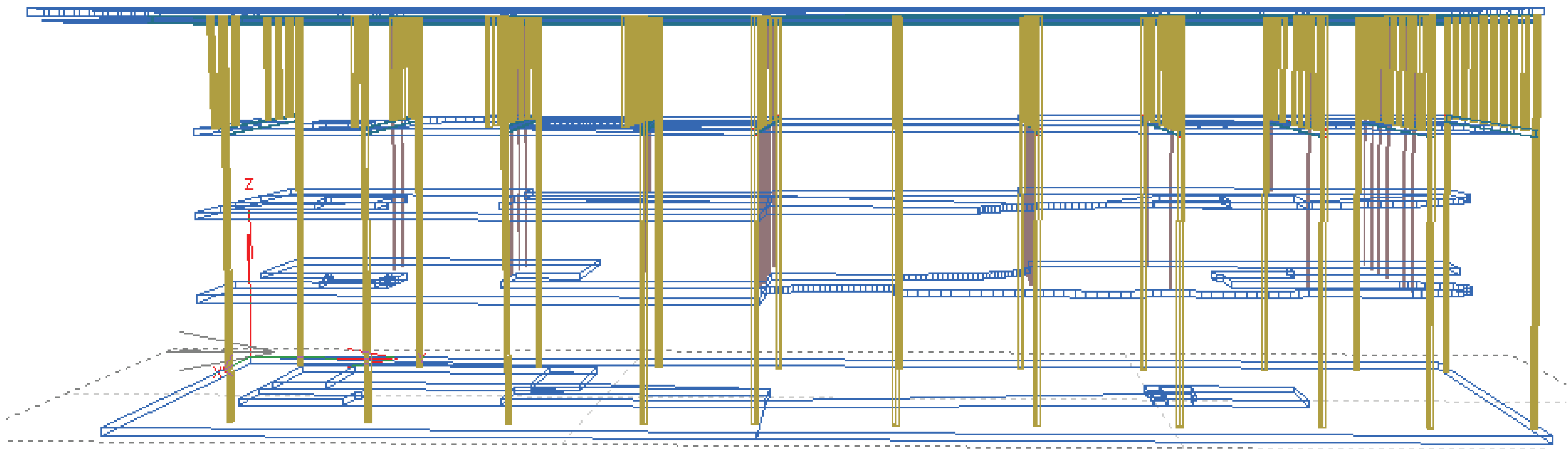
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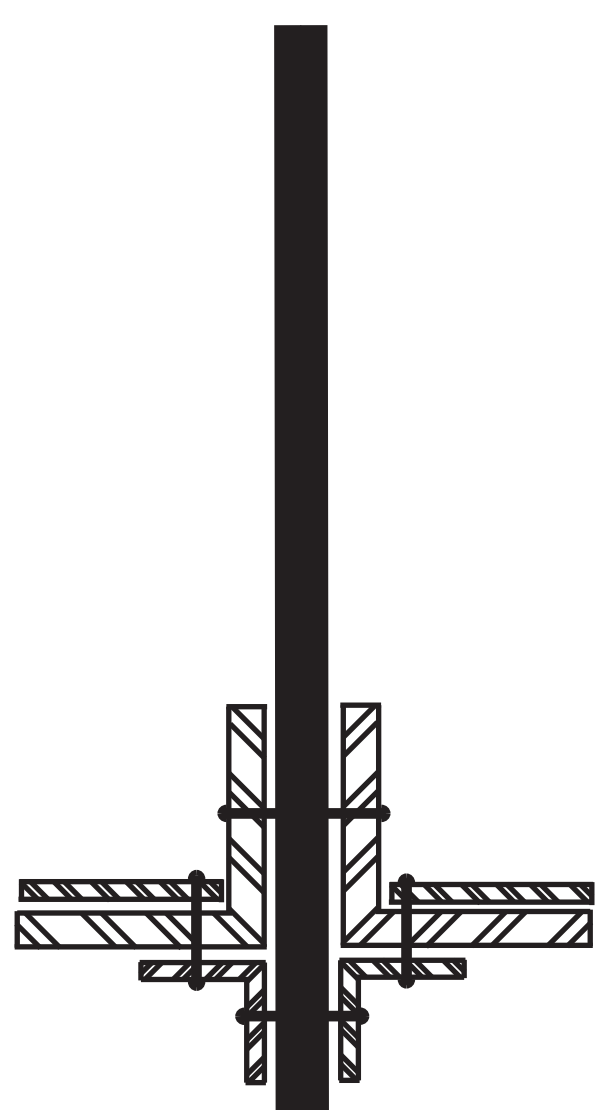
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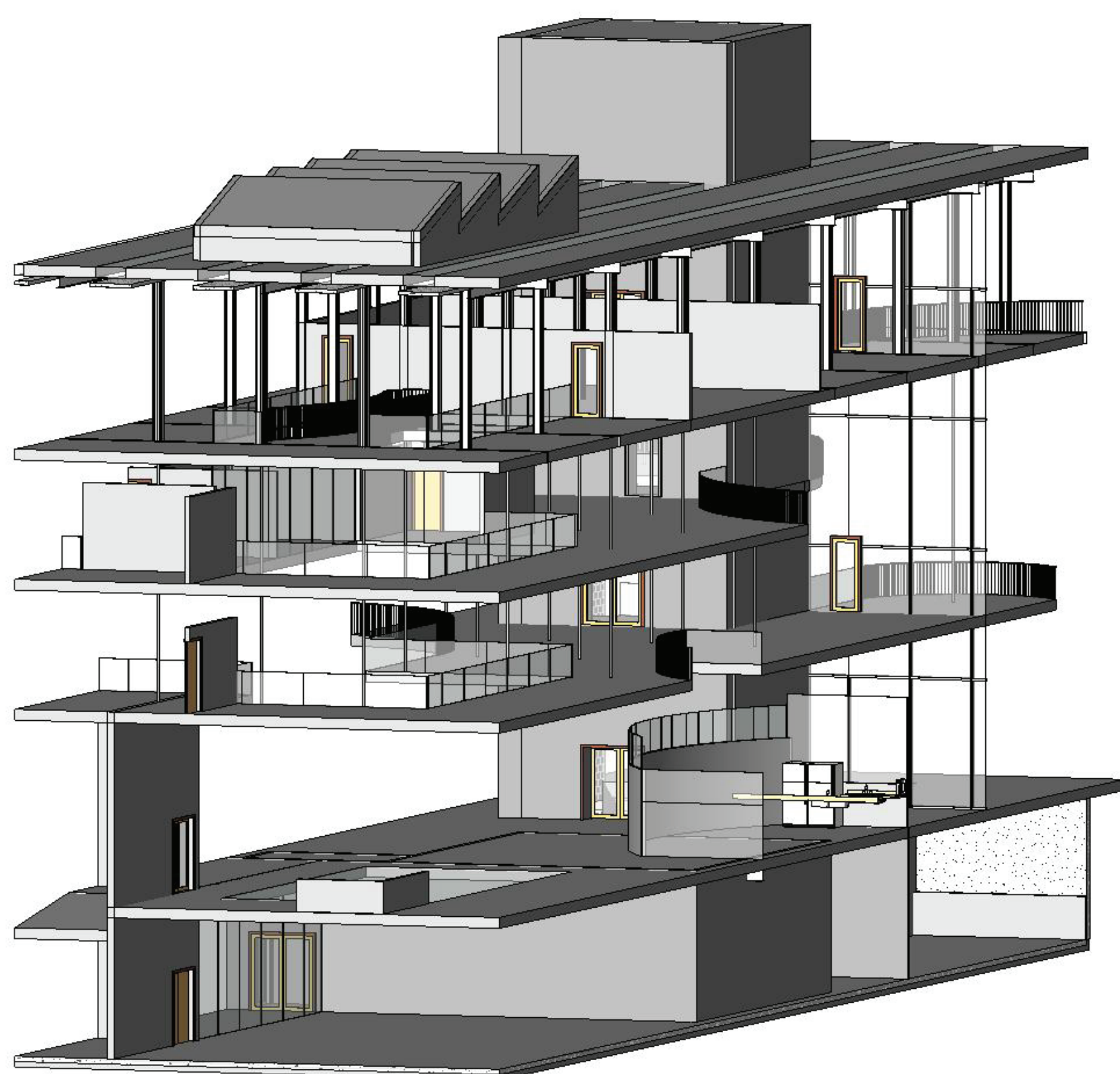
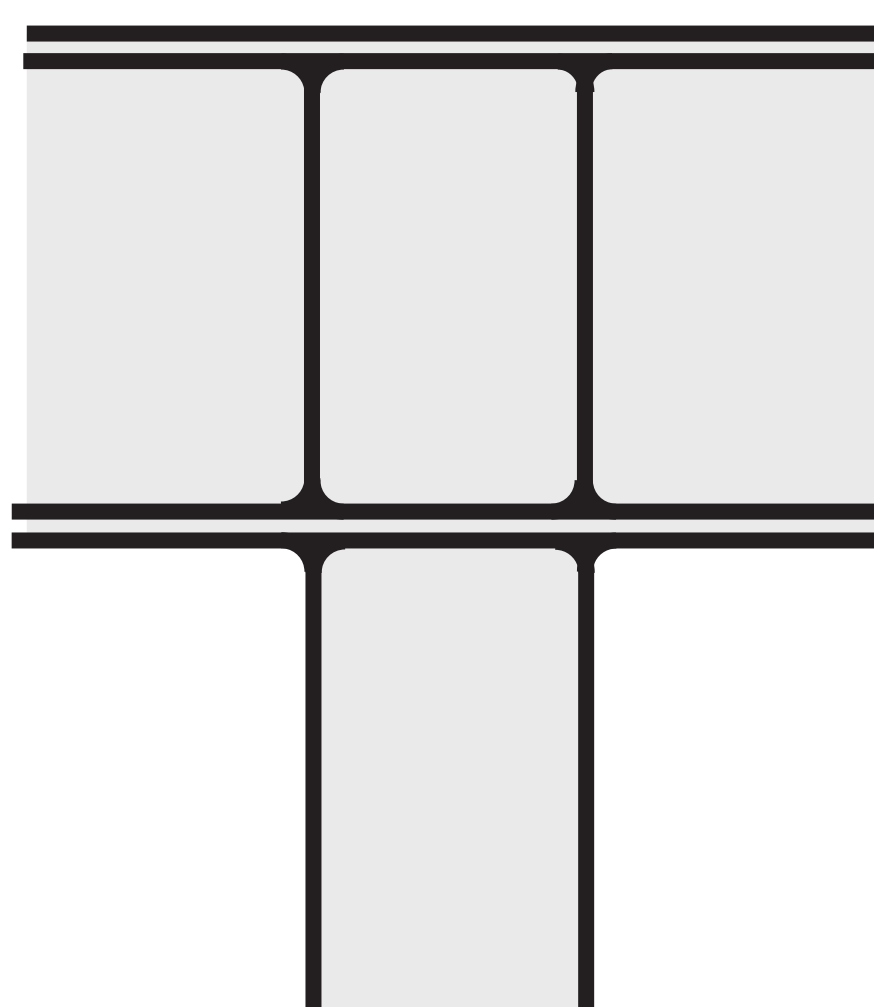
ROOF

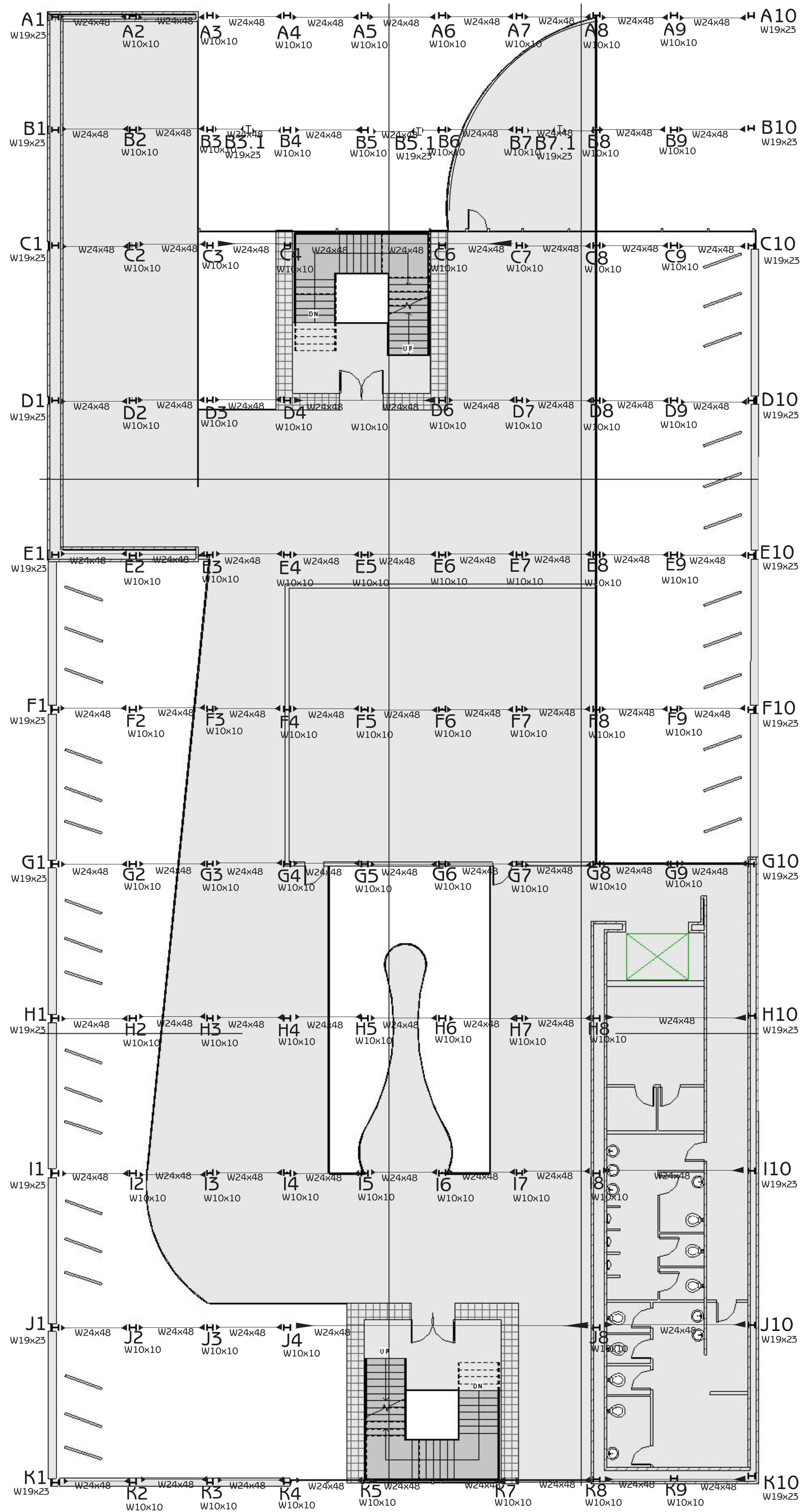


HANGING ROD AND STEEL ANGLES

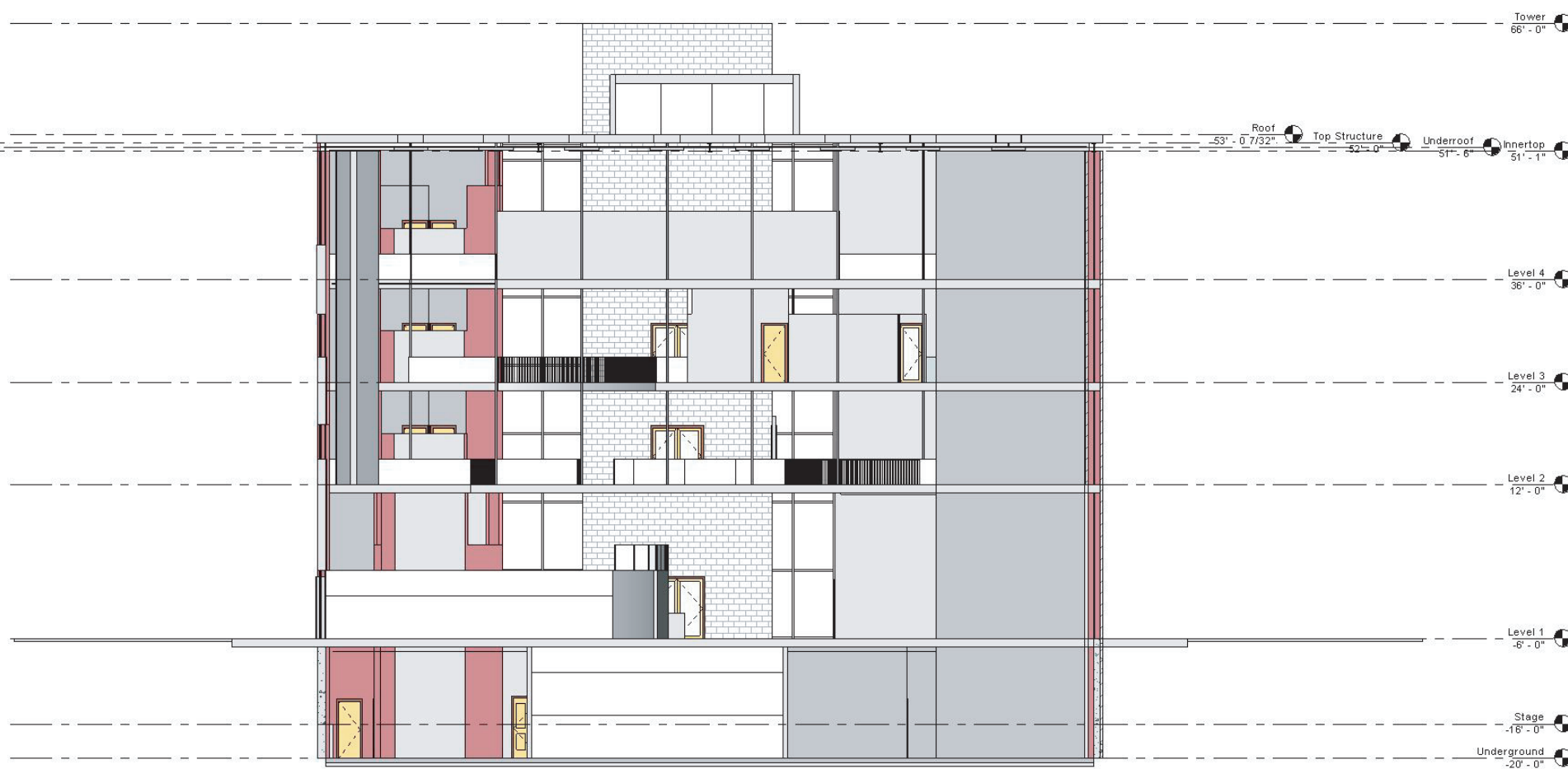


VIERENDEEL TRUSS:::RIGID CONNECTION WELD





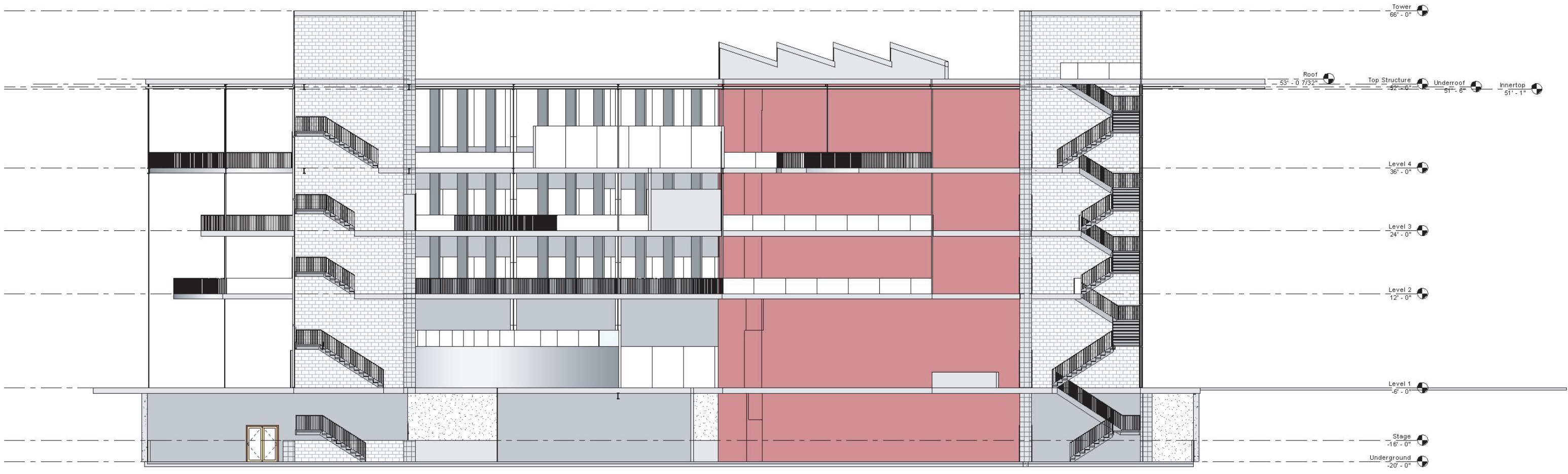
4TH FLOOR



NORTH



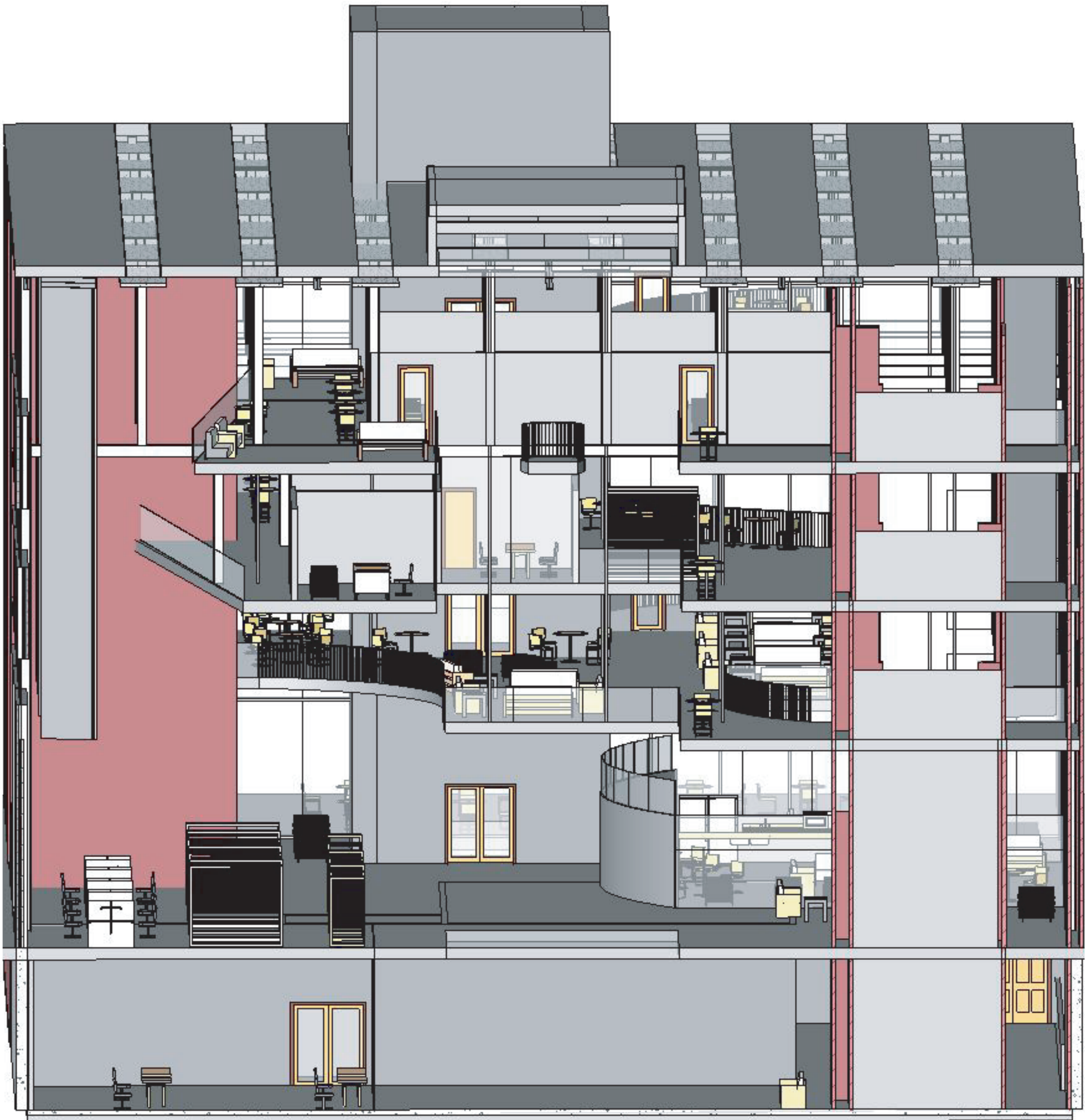
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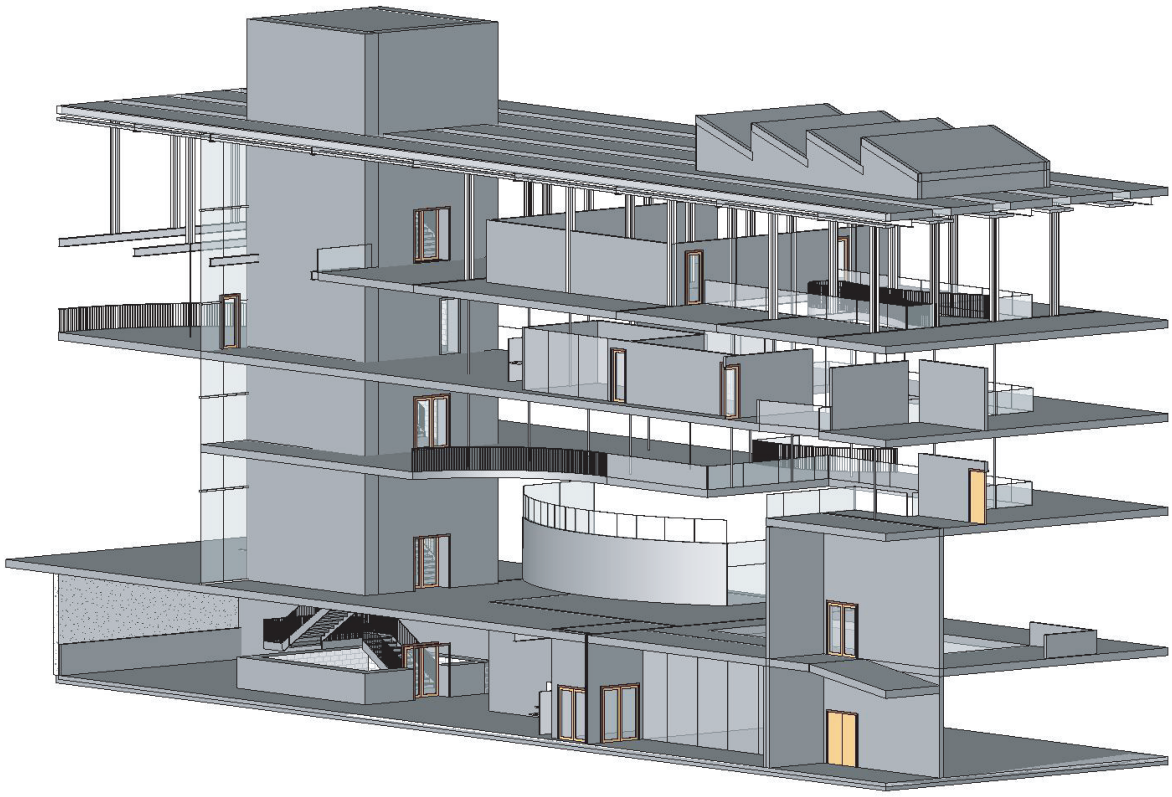
WEST



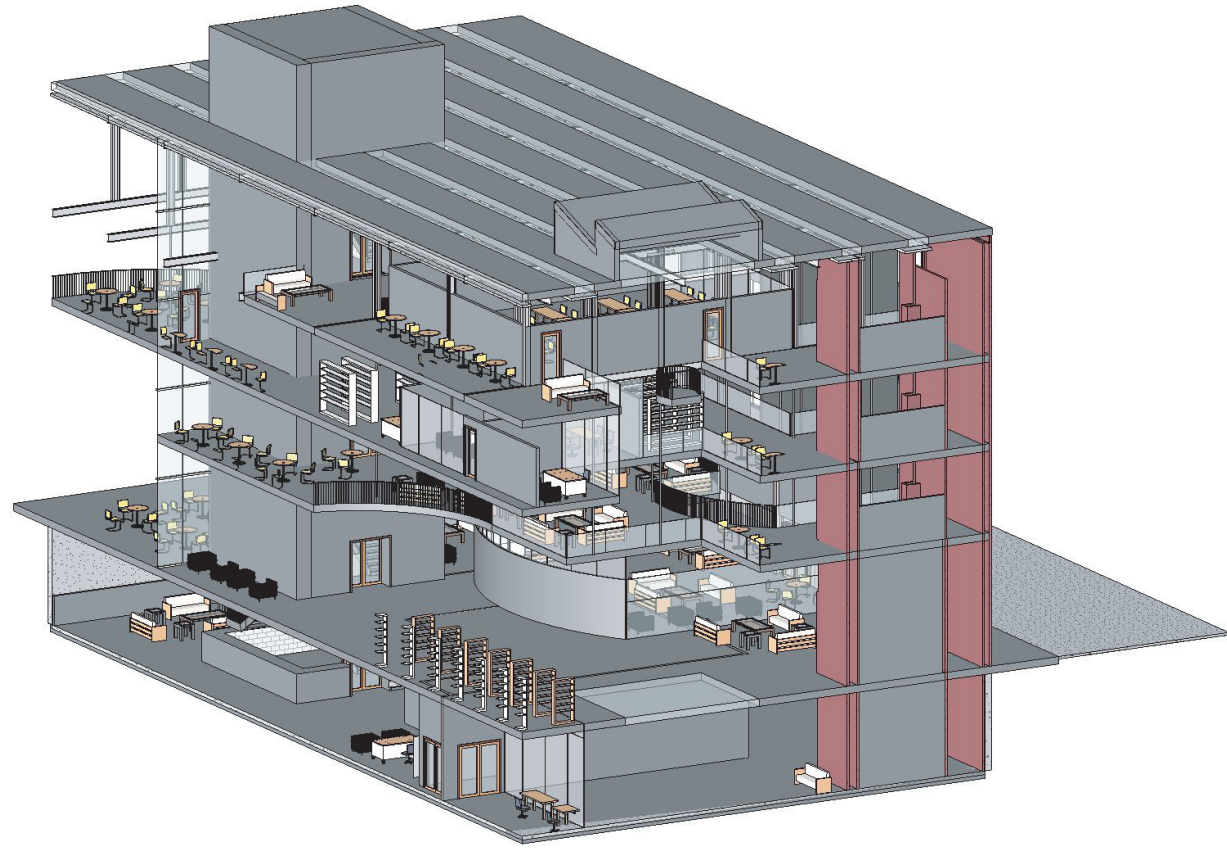
EAST

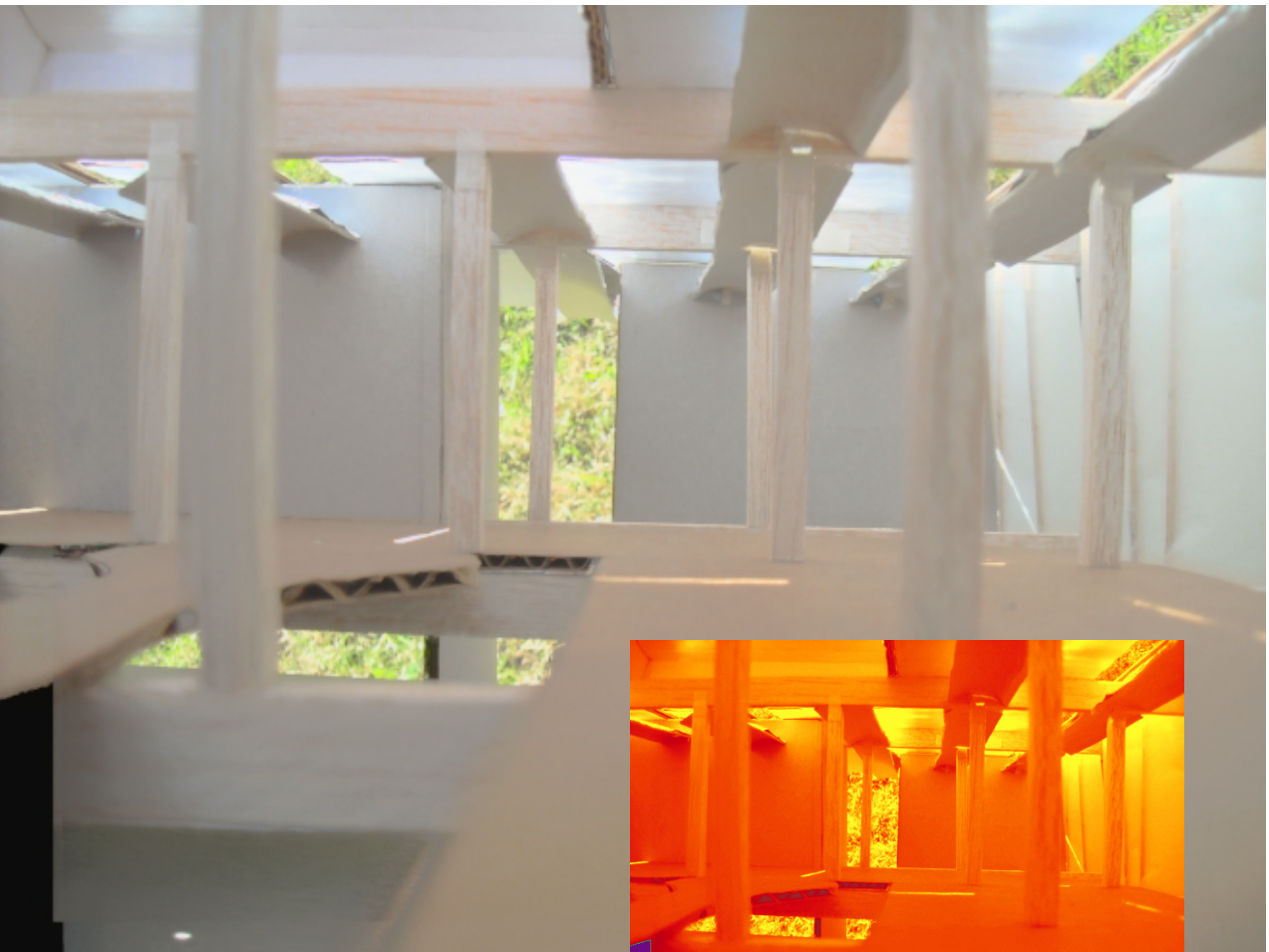


SOUTH

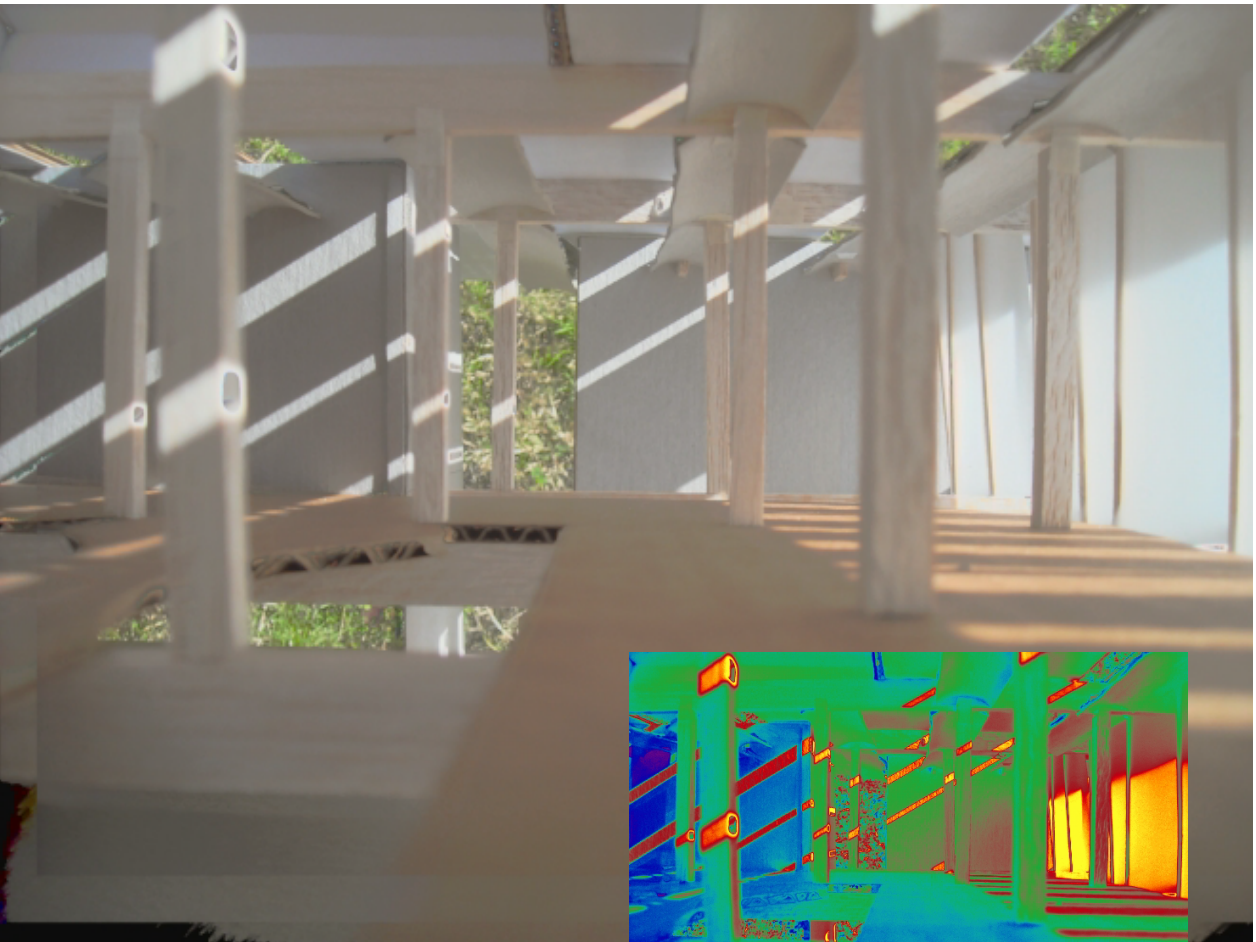


CENTER SOUTHWEST

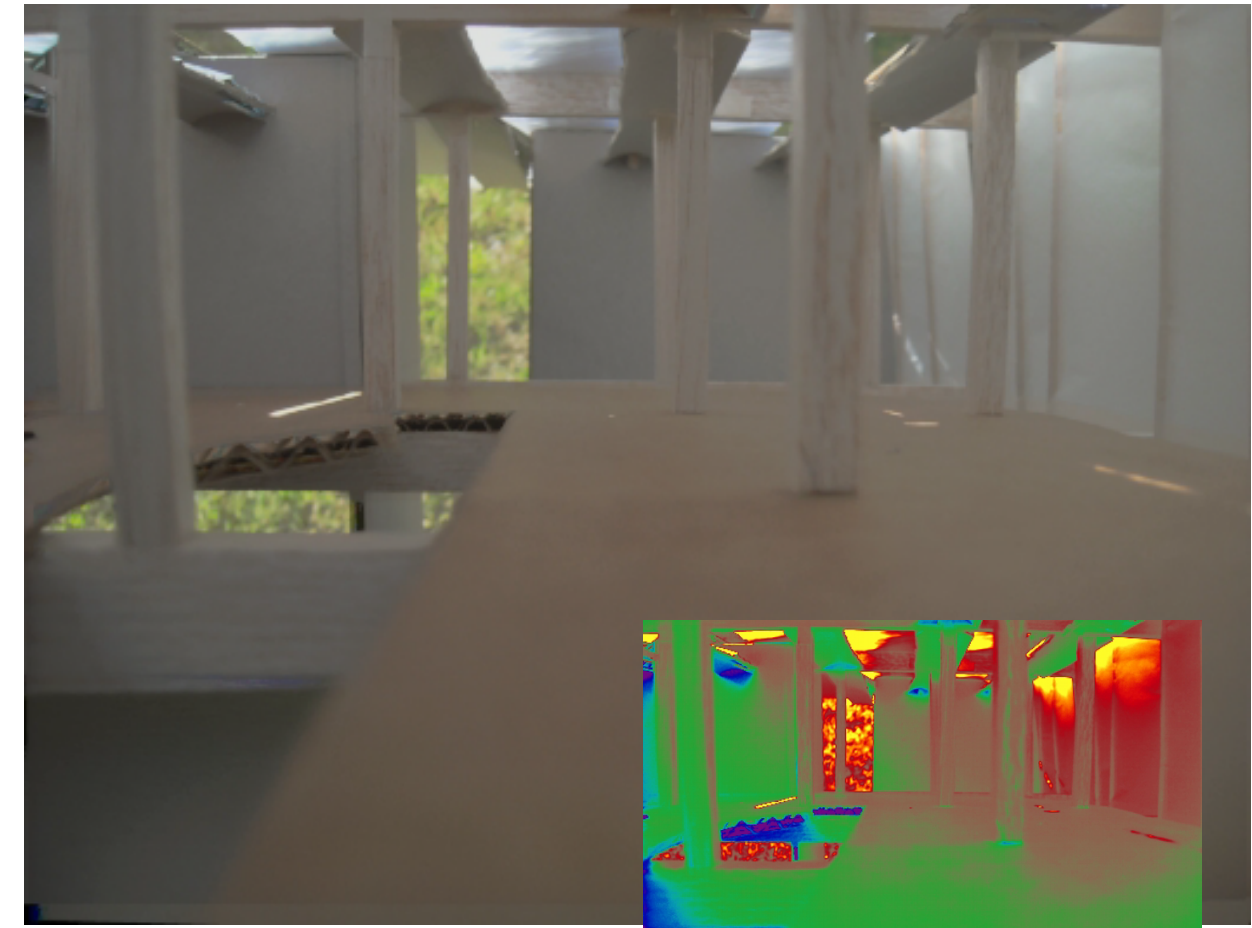
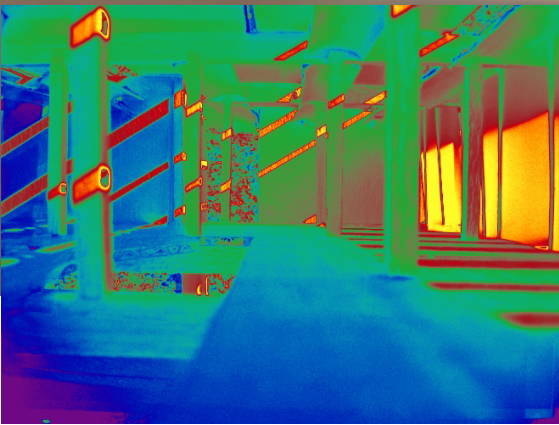




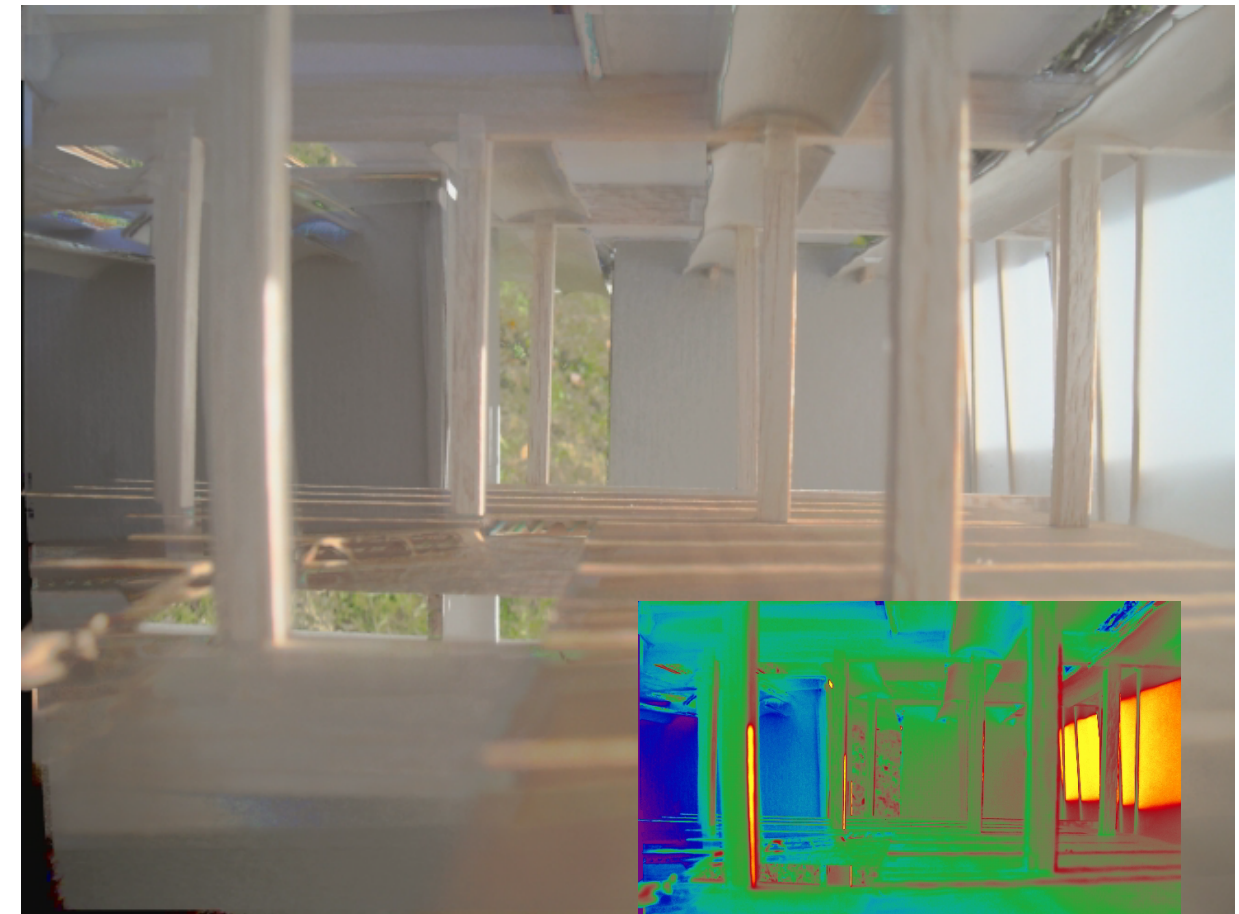
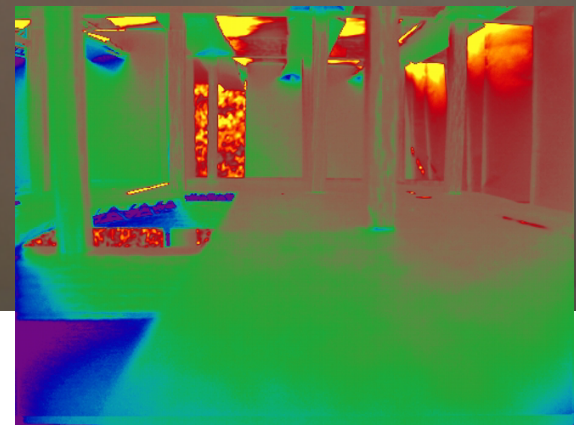
JUNE 21, 10AM



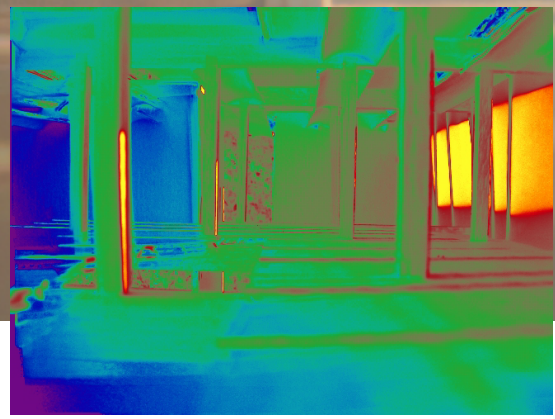
JUNE 21, 5PM



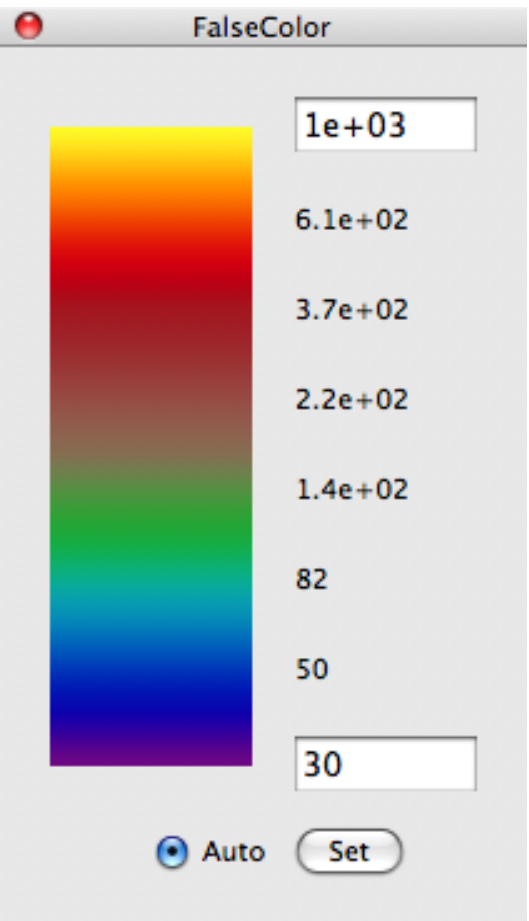
SEPTEMBER 21, 10AM



SEPTEMBER 21, 5PM



SEPTEMBER 21, 3PM



EXTERIOR: 120,000fc
INTERIOR CENTER RIGHT: 108fc
w/ Prestige Series PR 70 film = 74fc

Visible Light Transmitted: 69%
Total Solar Energy Rejected: 50%
Infrared Rejected: 97%
Visible Light Reflected: 10%
UV Rejected: 99.9%
Glare Reduction: 23%
Luminous Efficacy: 1.19

WALLS	-----	-----
6" precast, reinforced concrete	0.08	12.5
½" Air space	1.00/thickness	1
5/8" Gypsum Sheathing-Board	0.56/thickness	1.8
6" R-19 fiberglass batt in steel stud wall	19	0.05
5/8" sheetrock-gypsum board?	0.56/thickness	1.8
1" airspace	1.00/thickness	1
3 ½" Acoustical batt with CSR soundscreen R3	3.00/in = 10.5	0.1
5/8" Sheet rock-Gypsum board?	0.56/thickness	1.8
Brick	0.44/in	1.8
Windows	-----	-----
2 ½" Panels of glass with low-e With suspended film	3.23/half in= 8	0.125
drapes or blinds	0.29	3.4
Roof	-----	-----
6" precast hollow core concrete slab	0.5	20
8 ½" expanded polystyrene (EPS)	4.00/in	0.25
Flashing	0	0
3/8" Structural silicon adhesive	0	0
Insulated glass-triple glazing with low-e	1	1
	R-value	U-Value

TOTAL R-VALUES:::
WALL: (concrete) 21.6 (acoustic) 33.6 (brick) 24.7 (C) .05 (A) .03 (B) .04
WINDOW: 8.3 .12
ROOF: 35.5 .03

ASHRAE 90.1 Standard	ASHRAE Compliant- Energy Efficient
Fireproofing: Sprinkler System	Fireproofing: Sprinkler System
Cooling Equipment: DX Coils Heating Equipment: Furnace Packaged Single Zone DX with Furnace with return air path- Plenum Typical Unit Size: >760 kBtuh or 63 tons air cooled condenser type with EER 9.0 efficiency Heating: >=225 kBtuh Efficiency 0.8 Operate fans 1 hour before and 1 hour after close	Cooling Equipment: DX Coils Heating Equipment: DX Coils(Heat Pump) Air Split System Single Zone Heat Pump- Ducted Typical Unit Size: >760 kBtuh or 63 tons air cooled condenser type with EER 9.0 efficiency Heating: >=225 kBtuh Efficiency 0.8 Commissioned to monitor systems Operate fans 1 hour before and 1 hour after close Cycle Fans at Night(min OA at night) Control Zones with Fan "on" mode: Intermittent
No day lighting controls	Day lighting controls CA Title-24 2008 Dimming: 30% Light with design light level: 70fc
Usage Details: Simplified Schedules	Usage Details: Hourly Enduse Profile
Infiltration: Perim: 0.5ACH Core: 0.2 ACH	Infiltration: Perim: 0.5ACH Core: 0.2 ACH
Glass: Single Pilkington Solar E 6mm U=0.65	Glass: 1" Low-E with Suspended Film U=0.125
Windows: 40%	Windows: 40%
No Overhangs or Fins	Interior Vertical Fins Shading Devices
Minimum Lighting Requirements met	Minimum Lighting Requirements met and exceeded through use of natural light to reduce energy load for lighting- Ambient and Task Lighting throughout
HVAC Zones: Cooling Setpoints: 76F occupied 82F unoccupied Heating Setpoints: 70F occupied 64F unoccupied Minimum Design Air Flow: 0.5 cfm/sqft Heater Spec: Natural Gas-Storage	HVAC Zones: Monitored: Cooling Setpoints: 78F occupied 85F unoccupied Heating Setpoints: 70F occupied 64F unoccupied Minimum Design Air Flow: 0.5 cfm/sqft Heater Spec: Natural Gas-In-Line (Instantaneous)

GOAL: 40 PTS (CERTIFIED) - 62 PTS (GOLD RATING)

Sustainable Sites

Prerequisite 1 - Construction Activity Pollution Prevention (Required)
Credit 1 - Site Selection : To avoid the development of inappropriate sites and reduce the environmental impact from the location of a building on a site.
Credit 4.2 - Alternative Transportation- Bicycle Storage and Changing Rooms : To reduce pollution and land development impacts from automobile use
Credit 5.2 - Site Development- Maximize Open Space: To promote biodiversity by providing a high ration of open space to development footprint.
Credit 6.1 - Stormwater Design-Quantity Control: To limit disruption of natural hydrology by reducing impervious cover, increasing on site infiltration, reducing or eliminating pollution from storm water runoff and eliminating contaminants.
Credit 6.2 - Stormwater Design-Quality Control: To limit disruption and pollution of natural water flows from managing storm water runoff.
Credit 7.1 - Heat Island Effect-Nonroof: To reduce heat islands to minimize impacts on microclimate and human and wildlife habitats.
Credit 7.2 - Heat Island Effect-Roof: To reduce heat islands to minimize impacts on microclimate and human and wildlife habitats.

Water Efficiency

Prerequisite 1 - Water Use Reduction (Required)
Credit 1 - Water Efficiency Landscaping: To limit or eliminate the use of potable water or other natural surface or subsurface water resources available on or near the project site for landscaping irrigation.
Credit 2 - Innovative Wastewater Technologies: To reduce wastewater generation and potable water demand while increasing the local aquifer recharge.
Credit 3 - Water Use Reduction: To further increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.

Energy and Atmosphere

Prerequisite 1 - Fundamental Commissioning of Building Energy Systems
Prerequisite 2 - Minimum Energy Performance
Prerequisite 3 - Fundamental Refrigeration Management
Credit 1 - Optimize Energy Performance: To achieve increasing levels of energy performance beyond the pre-requisite standard to reduce environmental and economic impacts associated with excessive energy use.
Credit 3 - Enhanced Commissioning: To begin the commissioning process early in the design process and execute the additional activities after system performance verification is complete.
Credit 4 - Enhanced Refrigerant Management: To reduce ozone depletion and support early compliance with the Montreal Protocol while minimizing direct contributions to climate change.
Credit 5 - Measurement and Verification: To provide fro the ongoing accountability of building energy consumption over time.
Credit 6 - Green Power: To encourage the development and use of grid-source, renewable energy technologies on a net zero pollution basis.

Materials and Resources

Prerequisite 1 - Storage and Collection of Recyclables
Credit 2 - Construction Waste Management: To divert construction and demolition debris from disposal in landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites.
Credit 4 - Recycled Content: To increase the demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.
Credit 5 - Regional Materials: To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts from transportation.

Indoor Environmental Quality

Prerequisite 1 - Minimum Indoor Air Quality Performance
Prerequisite 2 - Environmental Tobacco Smoke (ETS) Control
Credit 1 - Outdoor Air Delivery Monitoring: To provide capacity for ventilation system monitoring to help promote occupant comfort and well being.
Credit 8.1 - Daylight and Views-Daylight: To provide the building occupants with a connection between indoor spaces and the outdoors through the introduction of daylight and views into the regularly occupied areas of the building.
Credit 8.2 - Daylight and Views-Views: To provide building occupants a connection to the outdoors through the introduction of daylight and views into the regularly occupied areas of the building.

Innovation in Design

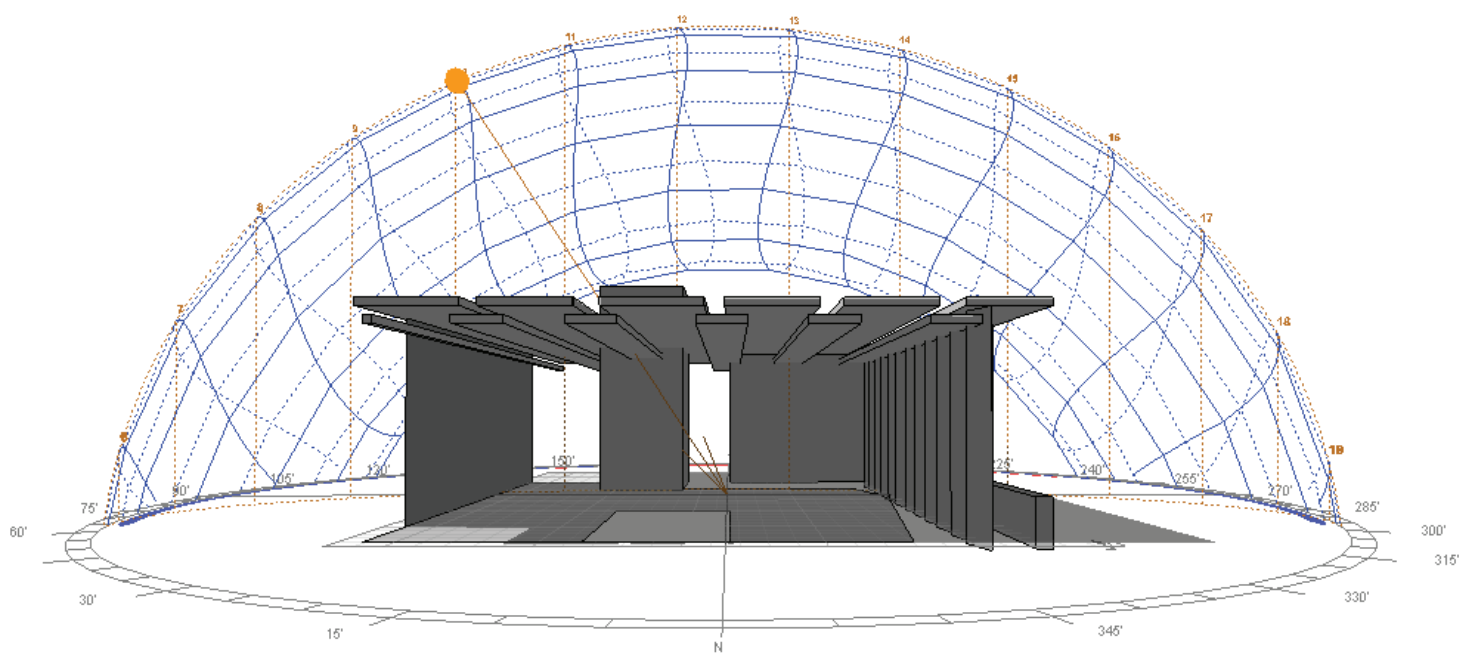
Credit 1 - Innovation in Design: To provide teams and projects the opportunity to achieve exceptional performance above the required set by the LEED Green Building Rating System and/or innovative performance not specifically addressed by the LEED Green Building Rating System.
Credit 2 - LEED Accredited Professional: To support and encourage the design integration required by LEED to streamline the application and certification process.

Regional Priority

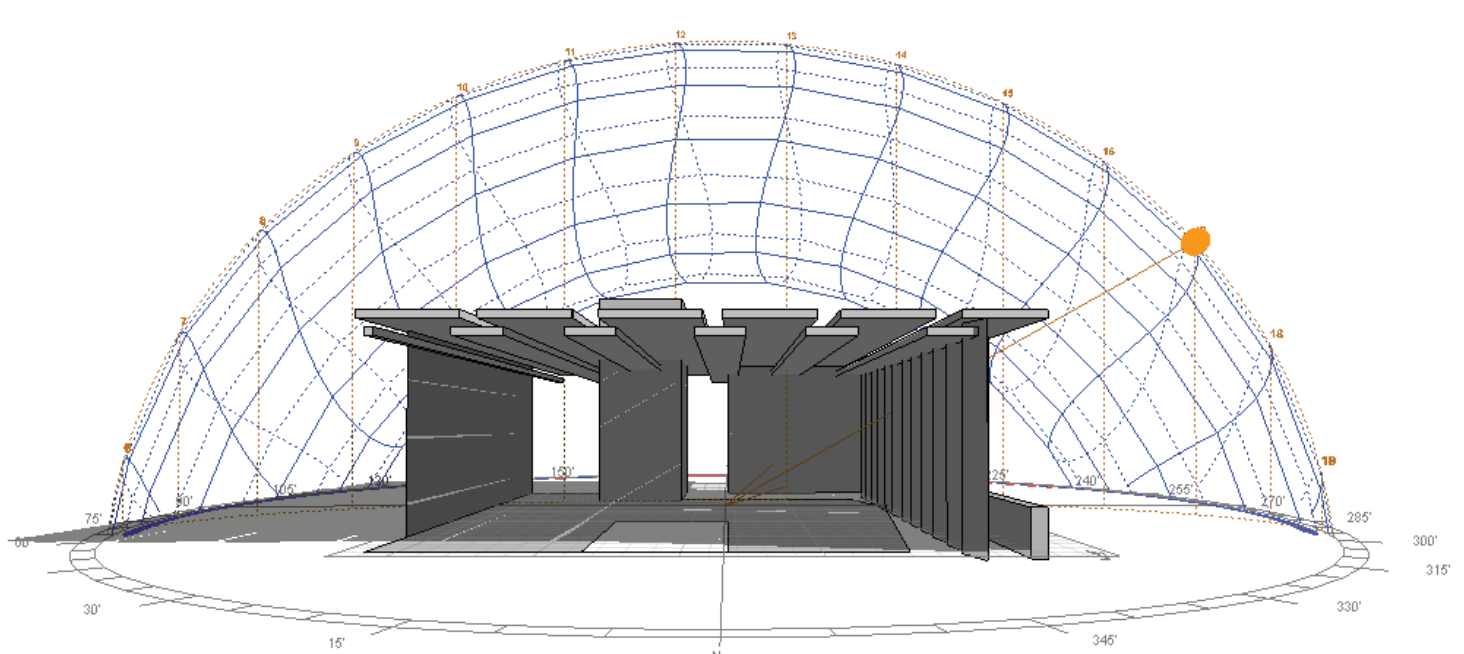
Credit 1 - Regional Priority: To provide an incentive for the achievement of credits that addresses geographically specific environmental priorities.

ECOTECT

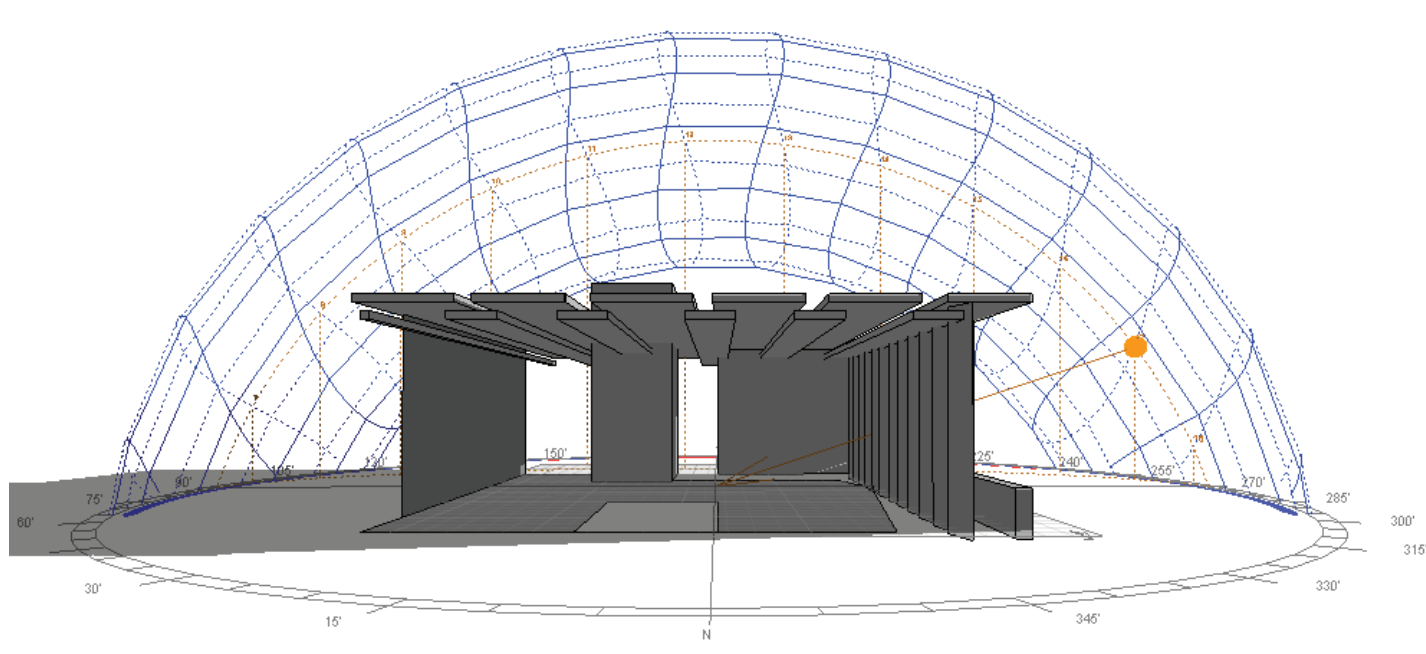
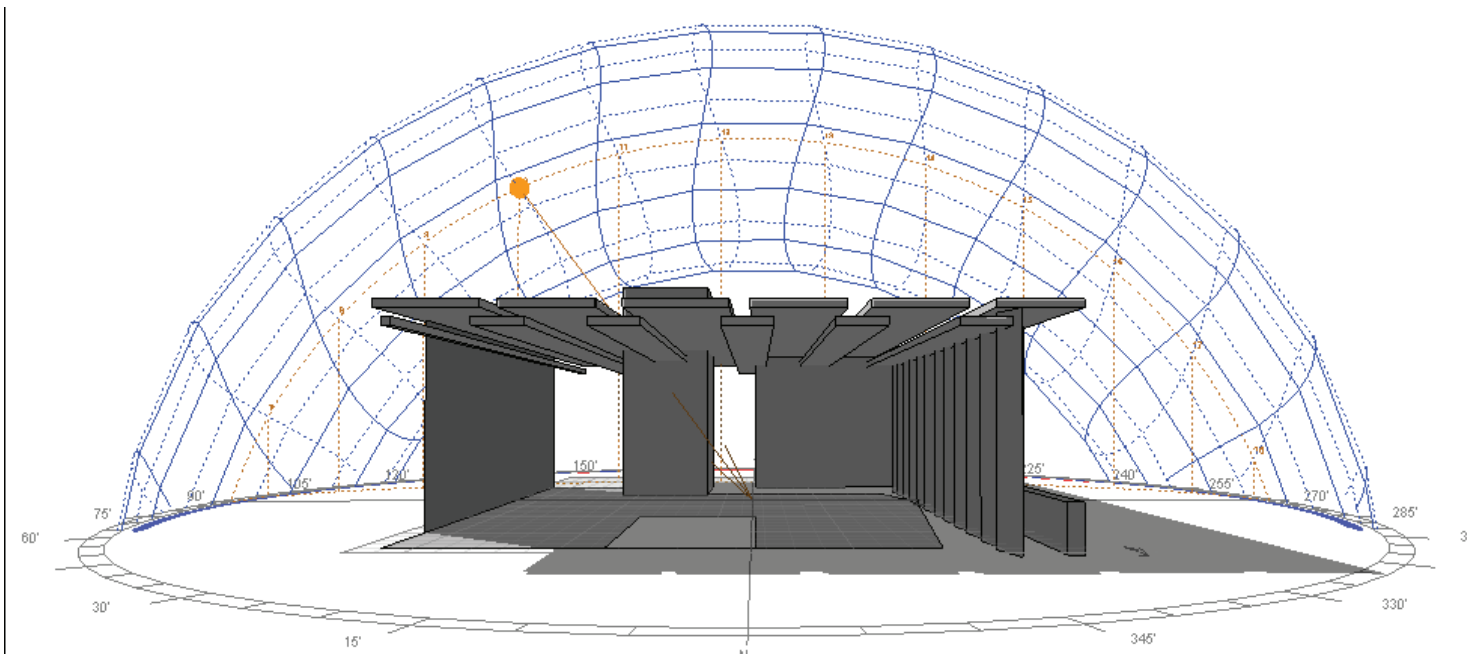
SHADING STUDY OF 4TH FLOOR READING ROOM
SOUTHWEST CORNER



JUNE 21, 10AM

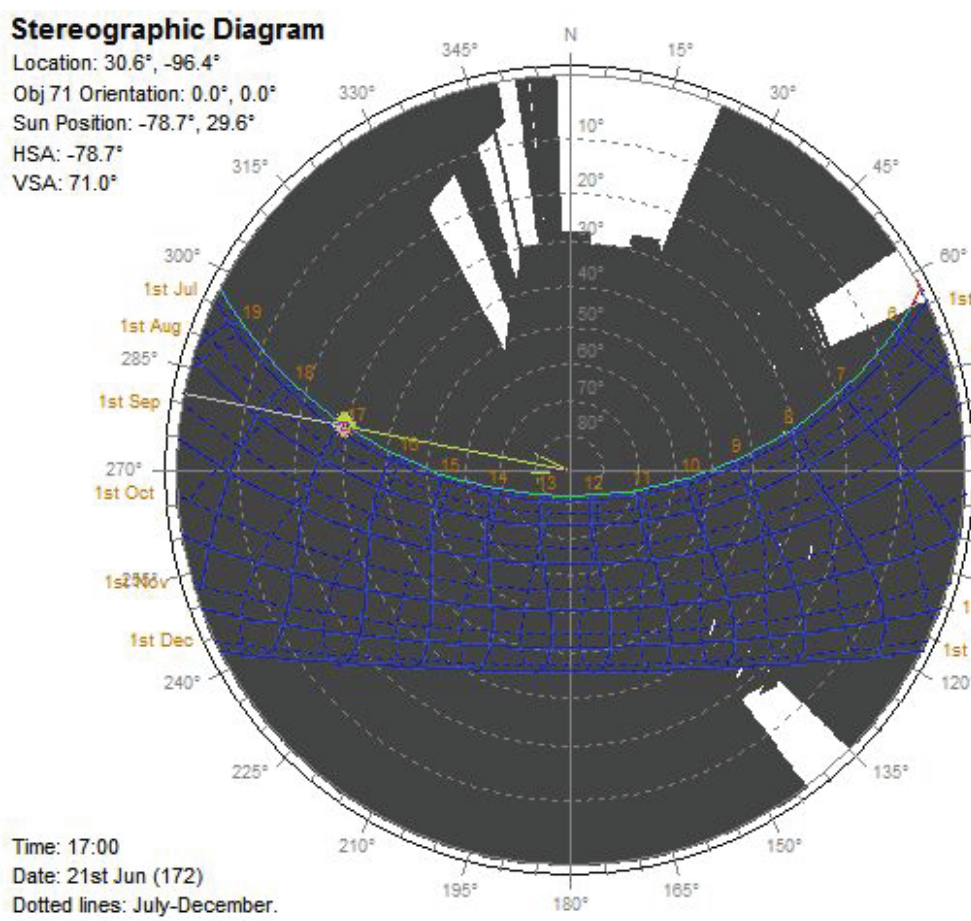


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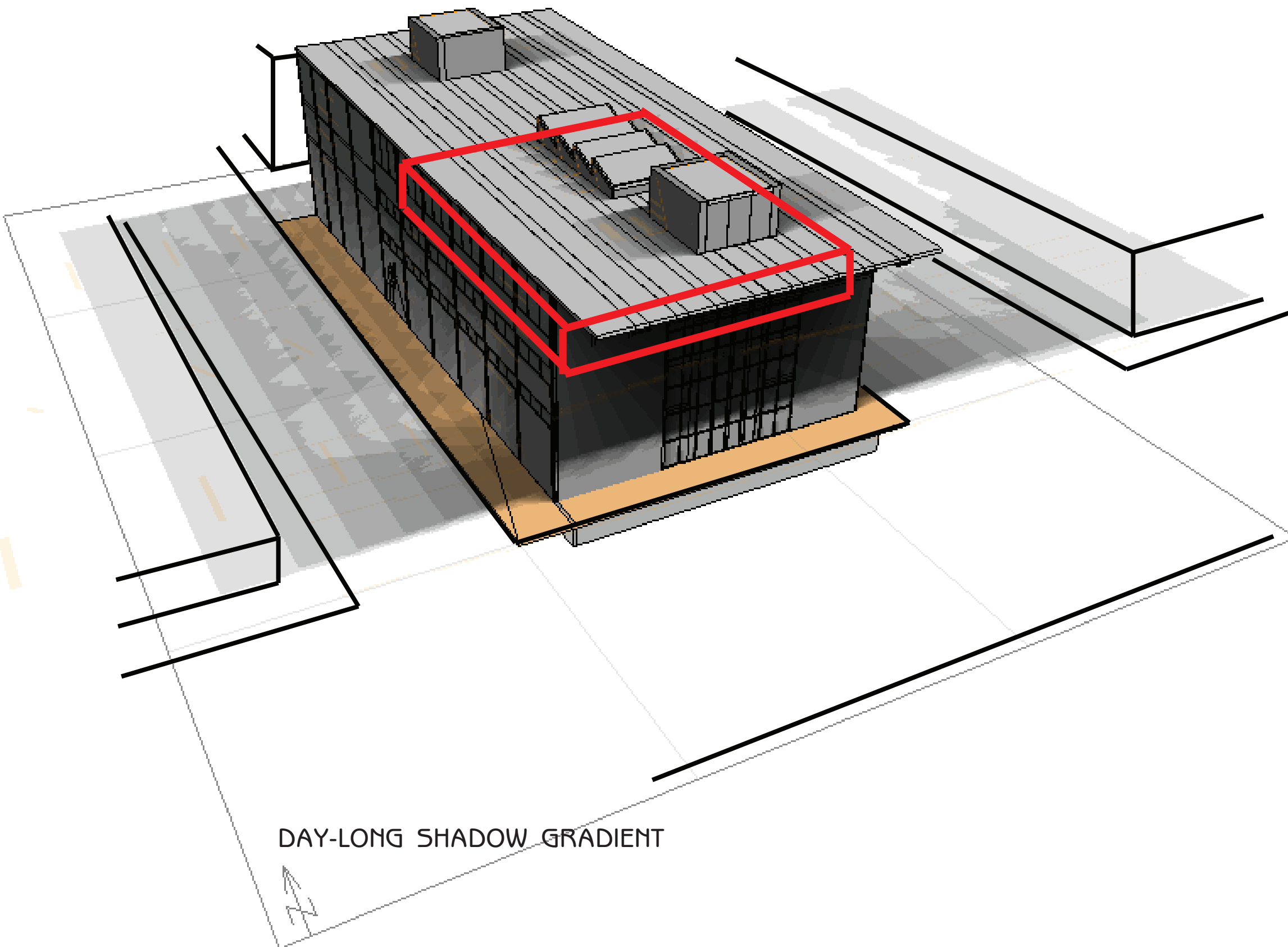


SEPTEMBER 21, 10AM

SEPTEMBER 21, 5PM



SUN PATH DIAGRAM



DAY-LONG SHADOW GRADIENT

