

HUIC

ARCHITECTURAL DESIGN



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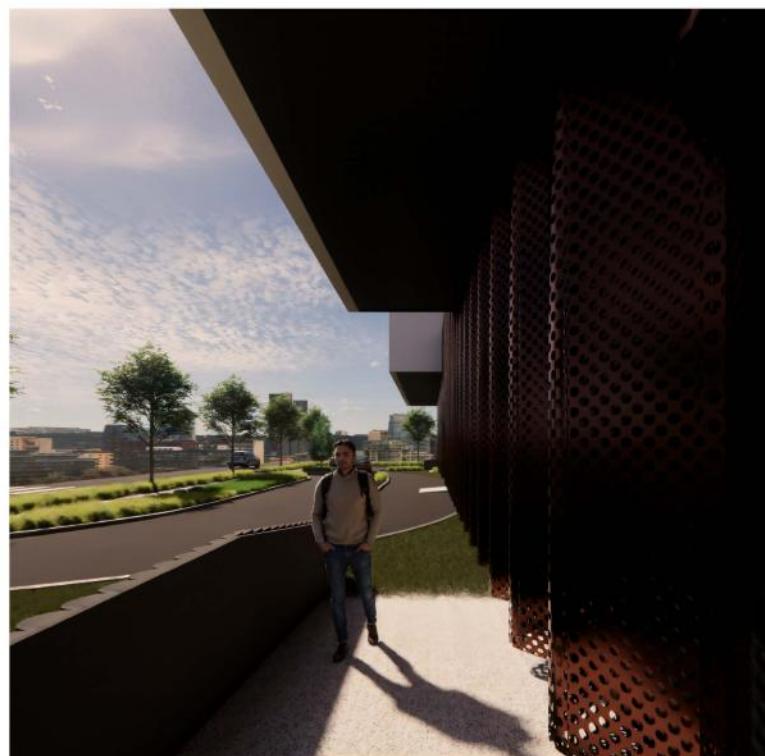
Above is a view of the KYc from the perspective of the guest parking lot. This view displays the bold curtain wall system and large perforated copper screen wall. The parking lot includes an abundant amount of greenery to reduce the concrete footprint.

DESIGN INTERPRETATION

The Kentucky Cultural KYc Museum design showcases the Bluegrass State's history, culture, and artwork, and celebrates its many talented artists. With eight indoor galleries and an outdoor sculpture gallery, the museum will include a large and diverse selection of artwork. The site is planted with native Kentucky vegetation to attract local wildlife and create a unique backdrop for outdoor sculptures. The proposed site for the KYc Museum is in downtown Lexington, Kentucky.

Our design team hopes this museum will serve as a design catalyst for the area as much of the nearby architecture is traditional, and the proposed design is eye-catching with an inspiring modern vibe. The design takes inspiration from the contemporary work of Steven Holl Architects, implementing simple pure forms, natural materials, and abundant diffused natural light, combined in clean geometric shapes that define the museum's architecture.

The KYc museum is a three-story structure. Its exterior features traditional glass curtain walls, large, perforated copper panels, cast-stone cladding, and a custom solid-surface curtain wall that creates a captivating pattern with shapes inspired by equestrian structures, appropriate for Lexington, which is widely considered the Horse Capital of the World. These equestrian-inspired shapes are also distributed throughout the site as inspiration for the raised planters and paving patterns.



Above is a view of behind the KYc. This shows the service/staff entrance, where deliveries are loaded.

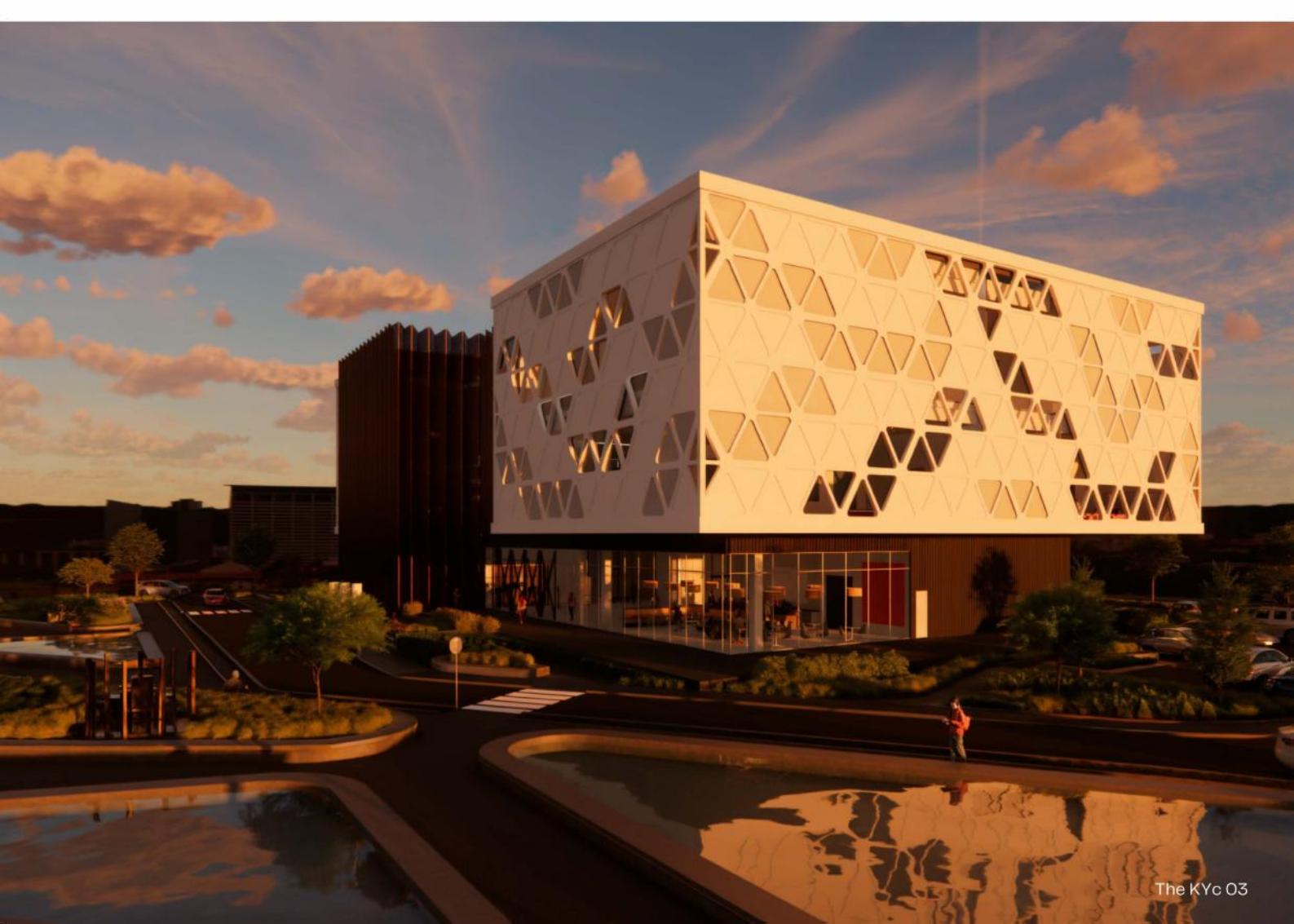
DESIGN INTERPRETATION



Above is a view of the cafe space. The design team aimed to make the museum accessible to everyone by implementing Universal Design principles. Universal Design refers to "the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design" (Dr. Sheryl Burgstahler). The design incorporates lever-style handles, hallways with a minimum width of 60 inches to allow for wheelchair maneuverability and doorways that are at least 36 inches wide. All entries and thresholds are step-free. Ramps with a 1:12 slope provide access to all entrances of the KYc, and toilets and seating are designed at comfort height, service counters are set at 34" above the finish floor throughout the building. The design team has paid special attention to maximizing natural light, supplemented with artificial light when needed, to make sure the entire museum is navigable for all. The Universal Design of the KYc ensures that everyone can enjoy the space for many years to come.



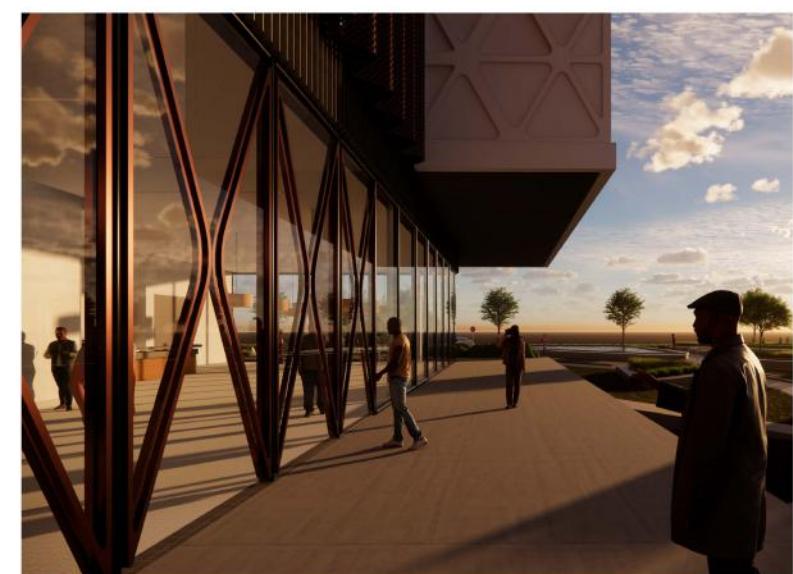
Above is a view of a parking island, breaking up the concrete-heavy parking lot. Sustainability is a primary goal of the design team. The green roof will help filter water while minimizing the heat island effect. Permeable ground cover is utilized throughout the design, both with crushed gravel and permeable pavers: these work to reduce stormwater runoff. In order to offset the typically heavy concrete footprint of a large-scale project, the site has been heavily planted with native Kentucky plants. Through careful thought and planning, the KYc connects guests with art and nature in a unique way.





Above is the museum's theater. This is one of many unique features in this museum that fosters guest experience.

Left is the front entrance, showing how the front door mimics the curtain wall pattern.



CONSTRUCTION SYSTEMS

The KYc Museum is a three-story structure built on a monolithic slab foundation supported by strip footings. The building is a Type I, fire-resistive structure. The Type-I designation means the building's structural steel frame is protected against fire with a concrete encasement and intumescent paint where applicable. The stairwells and elevator cores are constructed out of solid grouted CMU blocks. Not only does this prevent fire and smoke spread, but this reinforcement allows stairwells to act as a place of refuge for severe weather. Given the high occupancy of the building, there are specific considerations to protect staff and guests from fire.

The centralized fire alarm system controls self-closing fire doors throughout the building, isolating fire and smoke to specific sections of the structure. Both stairwells are pressurized, and doors in and out of the stairwells are smoke-sealed and 90-minute fire-rated. In the atrium, supplemental exhaust fans are located in the skylights to ensure proper ventilation and pressurization in the event of a fire or smoke. The building is protected by two types of sprinkler systems. A time-delayed halon system with an audible alarm is used in the archival storage and IT rooms. The rest of the building is protected by a typical "wet" sprinkler system with the riser room located in the mechanical suite with exterior access.

The building envelope is a curtain wall system. The system has three panel types: the traditional storefront style system is comprised of high-performance, thermally broken and UV-treated glass with powder-coated aluminum framing. This system makes the building more efficient and protects the art from damaging UV rays. The solid portion of the building facade is an insulated cast stone curtain wall system. The cast stone was selected because it resembles local limestone, yet is a cost-effective option with limited maintenance. The third and most unique panel system is on the gallery walls. This system uses three different materials for the interior panel, the same high-performance glazing from the curtain system, polycarbonate sheets, and corian, but in a custom shape to mimic local equestrian facilities. This system is clad in maintenance-free solid surface material. The entire building is wrapped in a perforated copper skin that adds visual interest while allowing for diffused light to enter the gallery spaces. The roof of the building is a low slope, super-insulated membrane roof that utilizes low-growth sedum plant beds that help absorb water runoff and minimize the heat island effect. The roof also hosts the outdoor mechanical units for the building's HVAC needs.



Above is a view of the KYc at dusk, showcasing the interaction between the copper and the sunlight.

CONSTRUCTION METHODS AND MATERIALS



Above is the central atrium space, with glass baubles hanging from the skylight system.



Above is a view of an exhibit showcasing the clearance around the artwork for accessibility.

Below is the right side of the design, outside of the cafe, looking out onto the sculptural garden.

The design features a monolithic slab supported by reinforced concrete strip footings. After the slab is poured and cured, cranes are used to set steel columns and floor systems. Once the steel superstructure is complete, metal pans are welded directly to the floor structure. Following this, four inches of concrete are poured to finalize the floor system. The roof consists of rigid foam insulation placed on the same concrete and metal pan system. This insulation is tapered to facilitate water runoff and is covered with a membrane roof system compatible with green roofs. Perforated copper panels are attached directly to the building's superstructure using stainless steel supports, which were chosen for their non-reactivity with copper.





Above is the front corner of the KYc just after sunset, displaying the artificial lighting through the design, and the pattern created by the curtain wall system.

ELECTRICAL WIRING

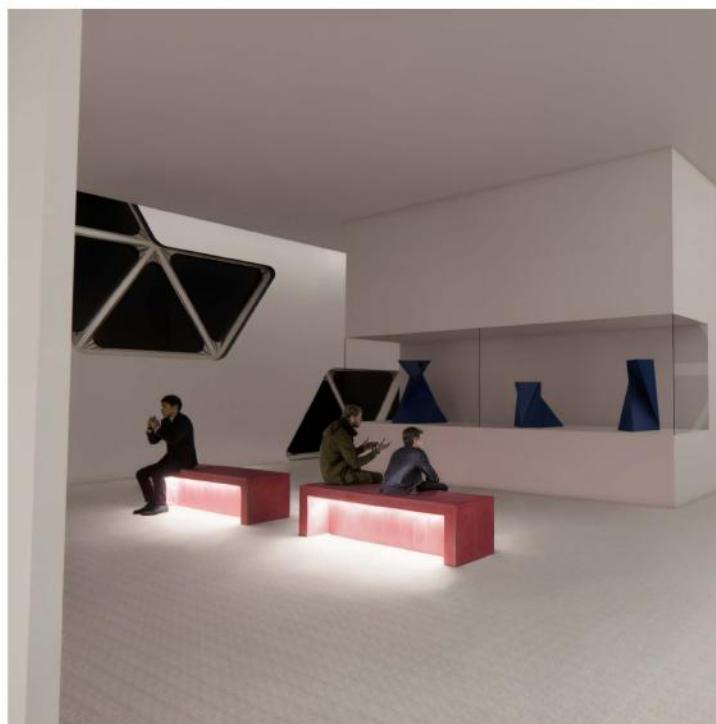
The main electrical service runs beneath the employee parking lot and service road, entering the building at the first-floor electrical room. Each floor contains an electrical room, organized vertically. Convenience outlets are spread throughout the building for maintenance and cleaning equipment. In the galleries, floor outlets will be located on a 20-foot grid. Each of the following spaces will have dedicated electrical subpanels:

- Theatre
- Café
- Kitchen
- Galleries

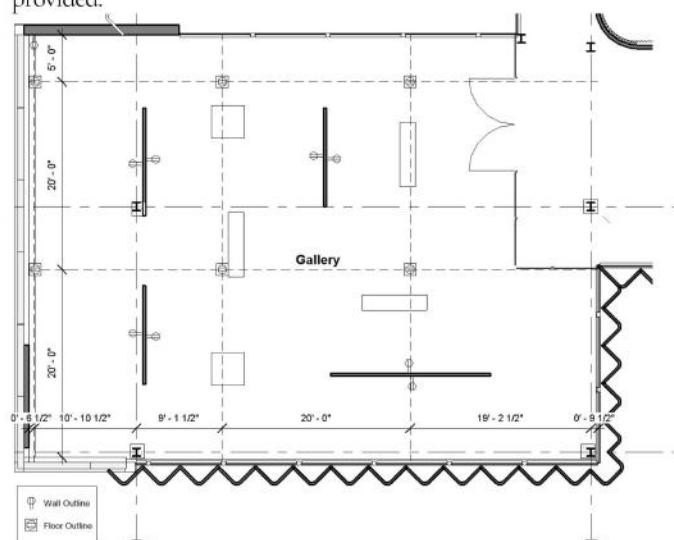
Offices, classrooms, storage spaces, and restrooms will be equipped with occupancy sensors to minimize the KYc's electrical consumption. All areas will have exit signs and emergency egress lights, which are powered by backup batteries for 24 hours.



Covered floor outlet *ENERLITES
Flip Lid Cover Floor Box*



Above is a view of a gallery space at night, showcasing the artificial light provided.



Electrical plan from a gallery. Each gallery has its own dedicated electrical subpanel.

PLUMBING



Above is one of the public restrooms, featuring touch free fixtures.

The KYc museum provides hot water through a hybrid geothermal and gas tank-style water heater system. Toilets are WaterSense rated and offer single and double-flush options, using less than 1.28 gallons per flush, which saves 20% more water than the federal standard of 1.6 gallons per flush. Bathroom faucet fixtures will be low-flow units designed to use 1.5 gallons per minute (gpm) or less and will be equipped with automatic sensors to conserve water. The café will include a grease trap and a three-compartment sink. All janitor closets will feature mop sinks with hot and cold water access and automatic chemical distribution systems for cleaning supplies. All exterior water features will utilize rainwater, with exterior water access available on each elevation of the building.

Low flow fixtures provide many benefits. Using less water, along with using less energy, reduces CO₂ emissions, while also reducing costs for the KYc. Sinks, and toilets are hands free to follow universal design standards.

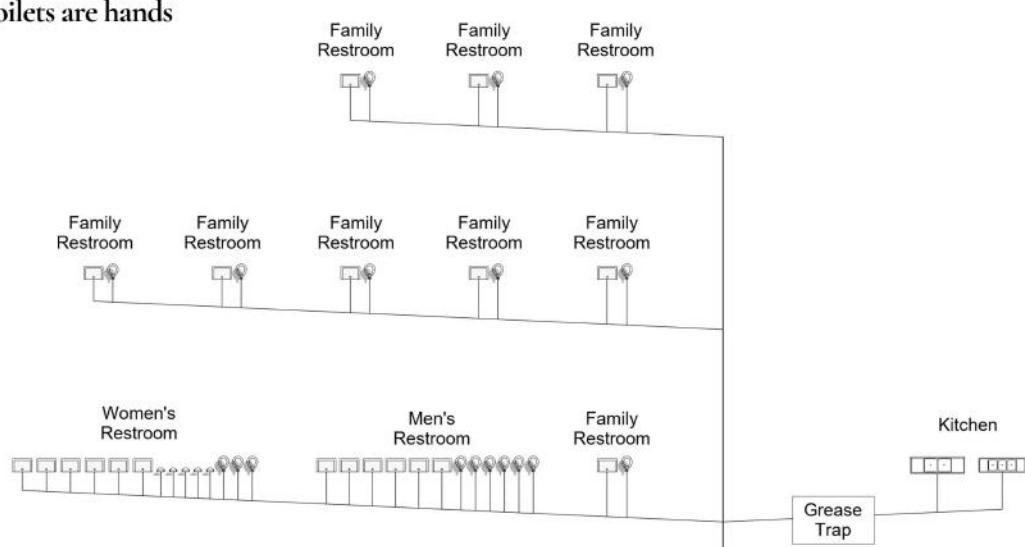


Above is a bathroom entrance sign.

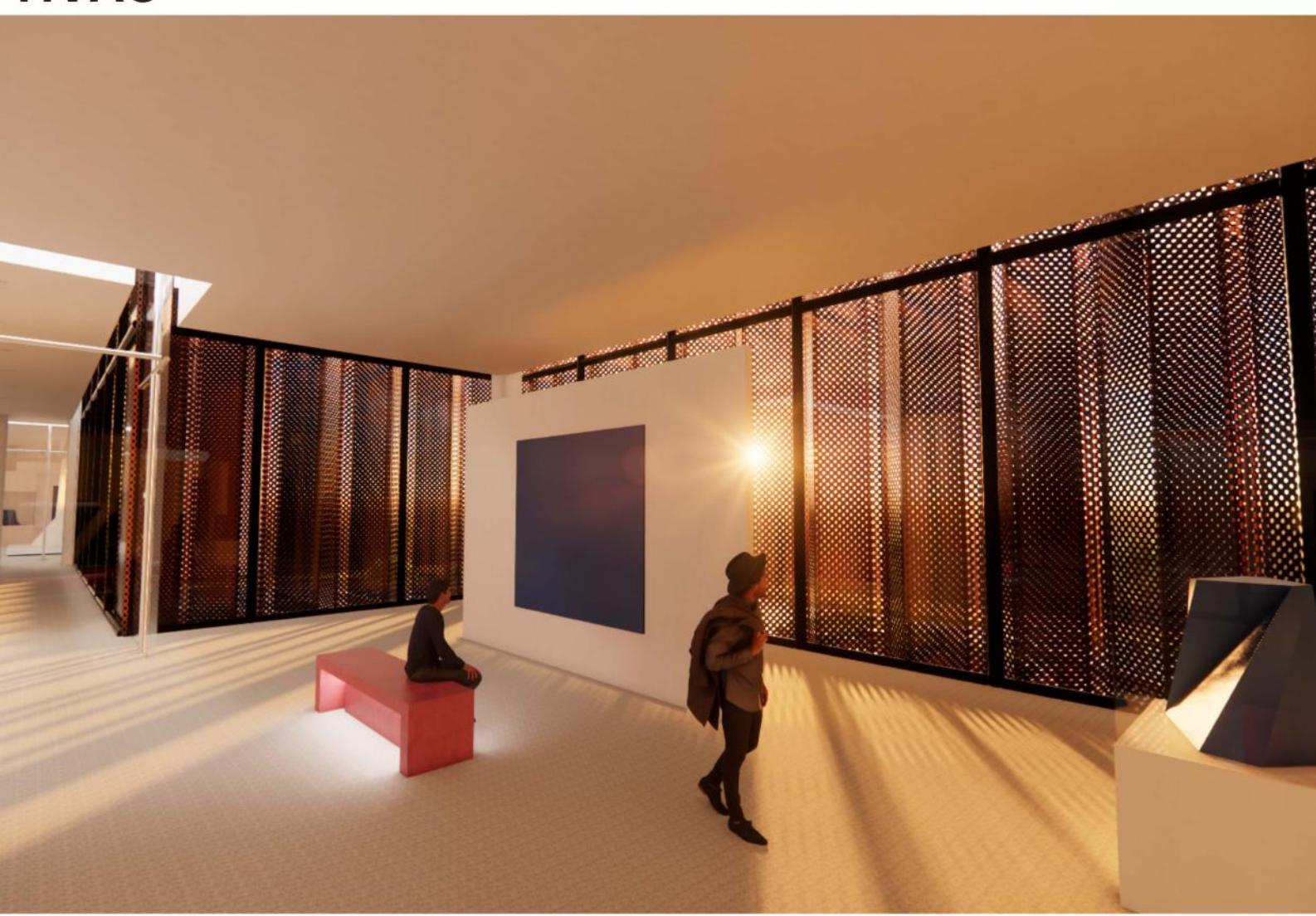


Low flow Faucet *Grohe Mounted Touchless Bathroom Faucet*

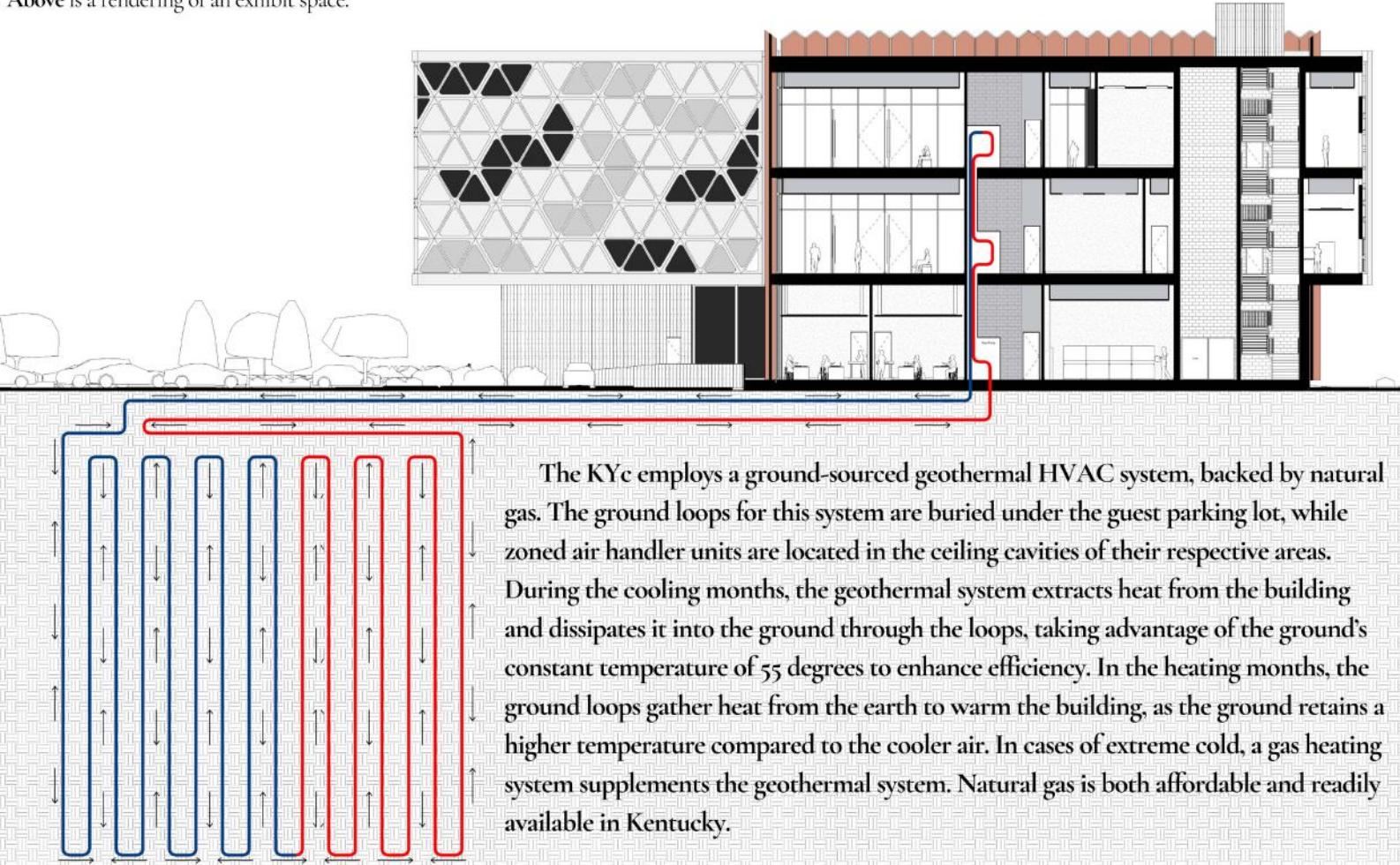
Low flow toilet *TOTO Ultra-High Efficiency Toilet*



Riser diagram for the KYc's plumbing systems.



Above is a rendering of an exhibit space.



SITE REQUIREMENTS



Above is a view of the sculpture garden, showcasing the interaction of the native Kentucky plants and wildlife, with the ponds.

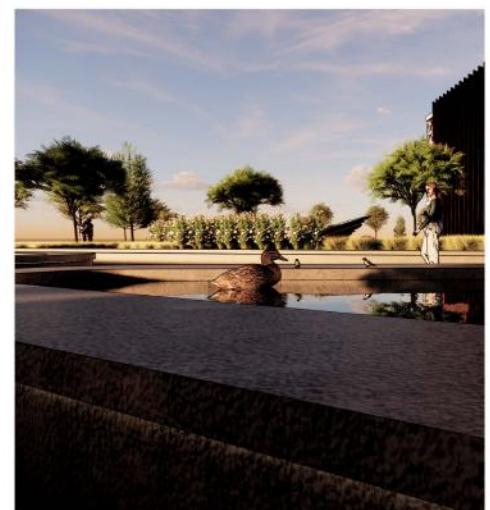
The KYc museum is situated in downtown Lexington, Kentucky, on a two-acre plot. The building is located in the northwestern corner, allowing for guest and staff parking, site circulation, and a large sculpture garden at the front of the property. Guests can access the site by car or on foot. The sculpture garden features a network of pathways that connect the museum to the surrounding neighborhood and lead visitors to the museum entrance. There are two service roads on the site: one for guest drop-off and access to the guest parking lot, and another in the far northwestern corner for truck deliveries and access to the staff parking lot. A unique feature of the site is the sculpture garden, which includes raised planting beds and ponds that provide a habitat for native Kentucky plants and wildlife. The pathways are designed to be wide enough for groups to gather and are illuminated at night with concealed LED lights. The raised planting beds also serve as benches for guests, allowing them to sit and enjoy the gardens. The sculptures, while abstract, reflect the uniqueness of Kentucky. The sculpture garden sets the cultural tone for the KYc, providing an enriching experience before visitors enter the building.



The guest parking lot has a sidewalk which leads guests through a planted area, and up to the entrance of the design. This created a pleasant experience for the guests.



The planting beds, and the pond walls are made of concrete. There is a slab on top, of the same material, which acts as a seat for guests. This is for guest experience, and comfort.

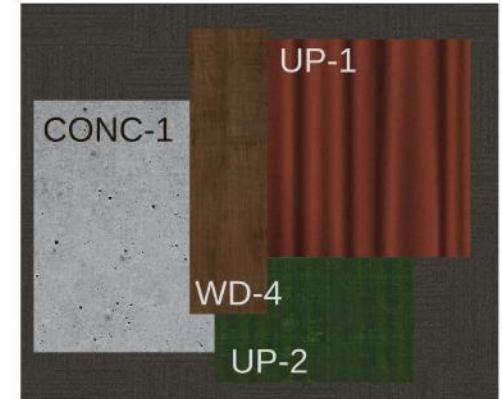
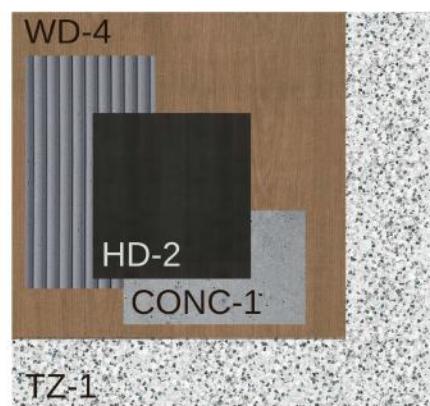
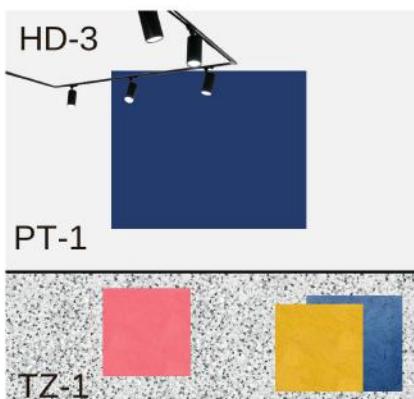
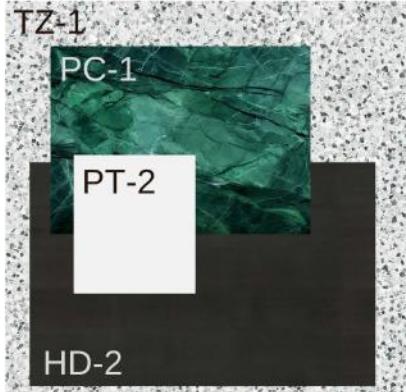


The water and plant beds provide a refuge and a habitat for native Kentucky wildlife like types of birds.

SCHEDULE OF FINISH MATERIALS

Finish Schedule

Name	Trim Finish	Floor Finish	Base Finish	Wall Finish	Accent Wall Finish	Ceiling Finish	Door Leaf	Door Hardware	Door Frame	Door Fixtures	Plumbing Fixtures	Hardware	Miscellaneous
Archival Storage	N/A	CPT-2	RB-2	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Backstage	N/A	WD-3	RB-3	PT-5	N/A	ACT-1	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Bathroom Hallway	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Breakroom	N/A	CPT-2	RB-2	PT-1	PT-4	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Cafe	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Circulation	HD-2	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Classroom	N/A	CPT-1	RB-1	PT-1	PT-4	ACT-1	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Classroom Access	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Confrence Room	N/A	CPT-2	RB-2	PT-1	PT-4	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Delivery Elevator	N/A	TZ-1	TZ-1	PT-1	N/A	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Dressing	N/A	WD-3	RB-3	PT-1	N/A	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Egress	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Egress Stair	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Egress Stairs	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Egress Stairwell	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Elevator													
Entry Foyer	HD-2	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	COP-1	WD-1	N/A	N/A	N/A	N/A
Exhibit	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	HD-3
Exhibit/Vertical Circulation	HD-2	TZ-1	TZ-1	PT-1	WD-4	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Gift Shop	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	HD-3
Kitchen	N/A	TL-1	TL-1	FRP-1	N/A	ACT-3	PT-3	HD-1	PT-3	N/A	N/A	N/A	N/A
Kitchen Access	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	PT-3	HD-1	PT-3	N/A	N/A	N/A	N/A
Mech	N/A	CONC-2	RB-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Mens Restroom	N/A	TZ-1	TZ-1	HD-2	N/A	PT-2	PLAM-1	HD-5	N/A	PC-1	PC-2	HD-4	Mirror-1
Office	N/A	CPT-2	RB-2	PT-1	PT-4	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Outdoor Exhibit													
Restroom	N/A	TZ-1	TZ-1	HD-2	N/A	PT-2	PLAM-1	HD-5	N/A	PC-1	PC-2	HD-4	Mirror-1
Room													
Staff Hallway	N/A	CPT-2	RB-2	PT-1	PT-4	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Staff Stair	N/A	CONC-2	RB-1		N/A	N/A	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Stage	N/A	WD-3	RB-3		N/A	PT-6	PT-3	HD-1	PT-3	N/A	N/A	N/A	UP-1
Storage	N/A	CPT-2	RB-2	PT-1	PT-4	ACT-2	PT-3	HD-1	PT-3	N/A	N/A	N/A	N/A
Tech	N/A	CPT-3	RB-3	PT-5	N/A	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Theater	N/A	CPT-3	RB-3	CONC-1	WD-2	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	UP-2
WC													
Womens Restroom	N/A	TZ-1	TZ-1	HD-2	N/A	PT-2	PLAM-1	HD-5	N/A	PC-1	PC-2	HD-4	Mirror-1



The KYc

Date 5/19/25
 Drawn by JK
 Checked by NK

Revisions

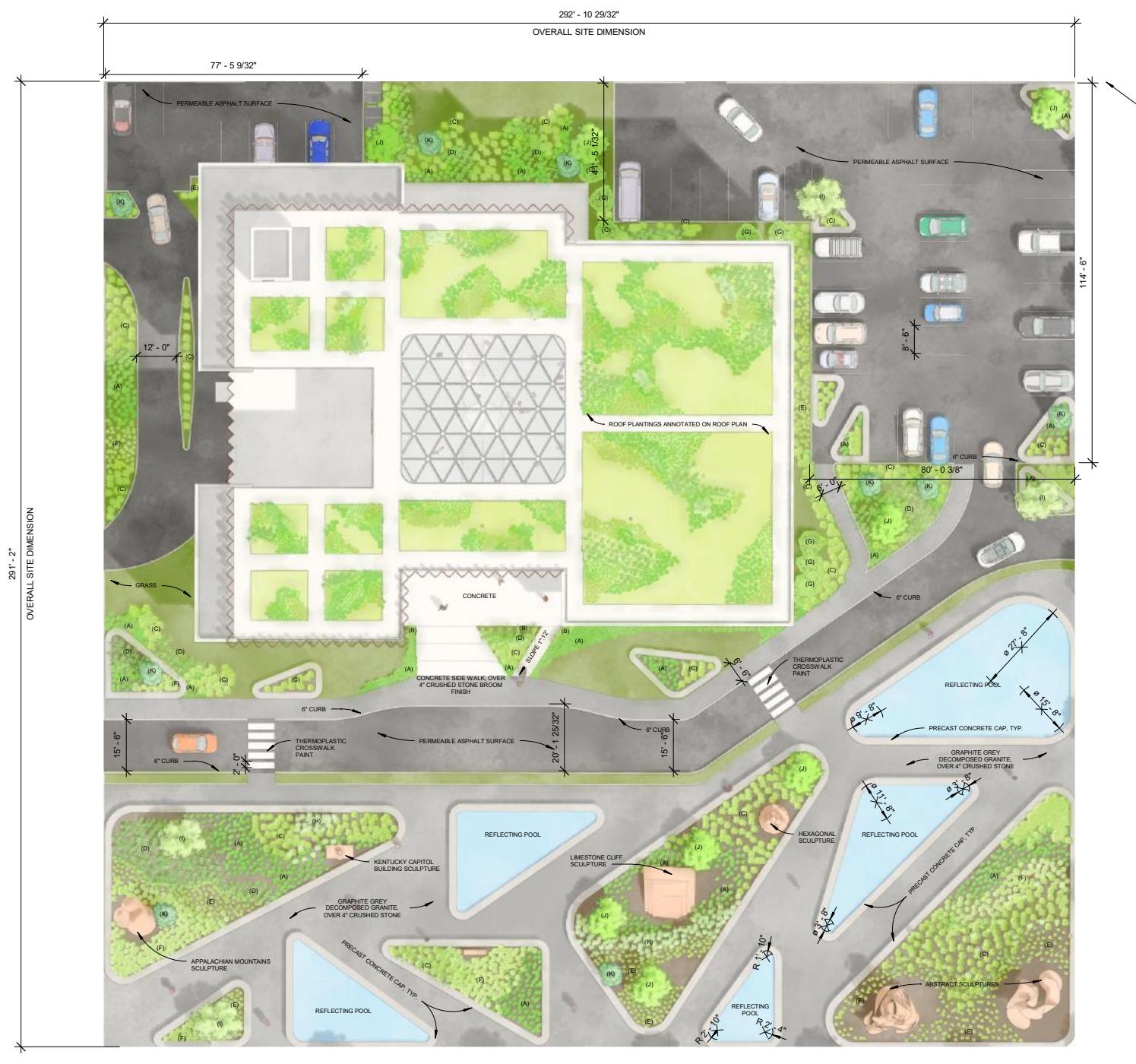
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 Sheet Formatting 1/21/25
 State Preparation 3/4/25
 State Final Export 3/7/25
 Nationals Prep. 4/2/25
 Nationals Review 1 5/5/25
 Nationals Review 2 5/13/25
 Nationals Final Export 5/19/25



Site Plan

V101

1" = 20'-0"



AREA IN GREY NOT INCLUDED IN PROJECT SCOPE

① Site
 1" = 20'-0"



(A)-Tall Dropseed



(B)-Indian Grass



(C)-Switchgrass



(D)-Soft Rush



(E)-Pennsylvania Sedge



(F)-Maiden Hair Fern



(G)-Hydrangea



(H)-Allengheny Spurge



(I)-Red Maple



(J)-Dogwood



(K)-Virginia Pine

Decomposed Granite Area: 10,794 square feet

Permeable Asphalt Area: 23,297 square feet

Planting Bed Area: 10,674 square feet

Reflecting Pool Area: 4,507 square feet

The KYC

Date	4/25/25
Drawn by	BM
Checked by	NK

Revisions

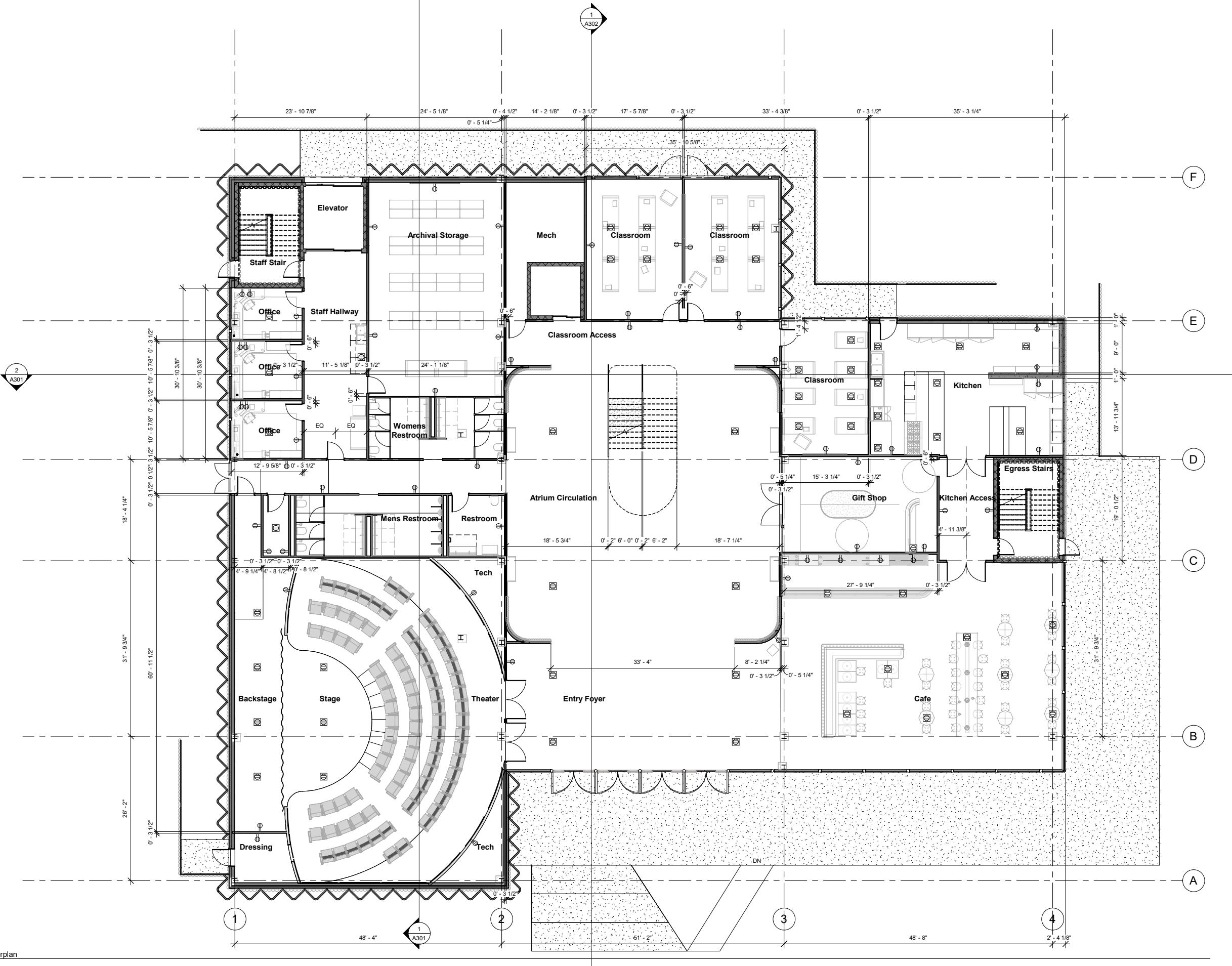
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Level 1 Floorplan

A101

1/8" = 1'-0"



The KYC

Date	4/25/25
Drawn by	BM
Checked by	NK

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- Nationals Review 2/5/13/25
- Nationals Final Export 5/19/25



Level 2 Floorplan

A102

1/8" = 1'-0"

The KYc

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 Drawn by BM
 Checked by NK

Revisions

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- State Preparation 3/4/25
- State Final Export 3/7/25
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- Nationals Review 1 5/5/25
- Nationals Review 2 5/13/25
- Nationals Final Export 5/19/25

Level 2 Floorplan

A102

1/8" = 1'-0"

1 Level 2 Floorplan
 1/8" = 1'-0"

The KYC

Date	4/25/25
Drawn by	BM
Checked by	NK

Revisions

Winter Progress	12/18/24
Sheet Formatting	1/21/25
State Preparation	3/4/25
State Final Export	3/7/25
Nationals Prep.	4/21/25
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Nationals Review 2	5/13/25
Nationals Final Export	5/19/25



Level 3 Floorplan

A103

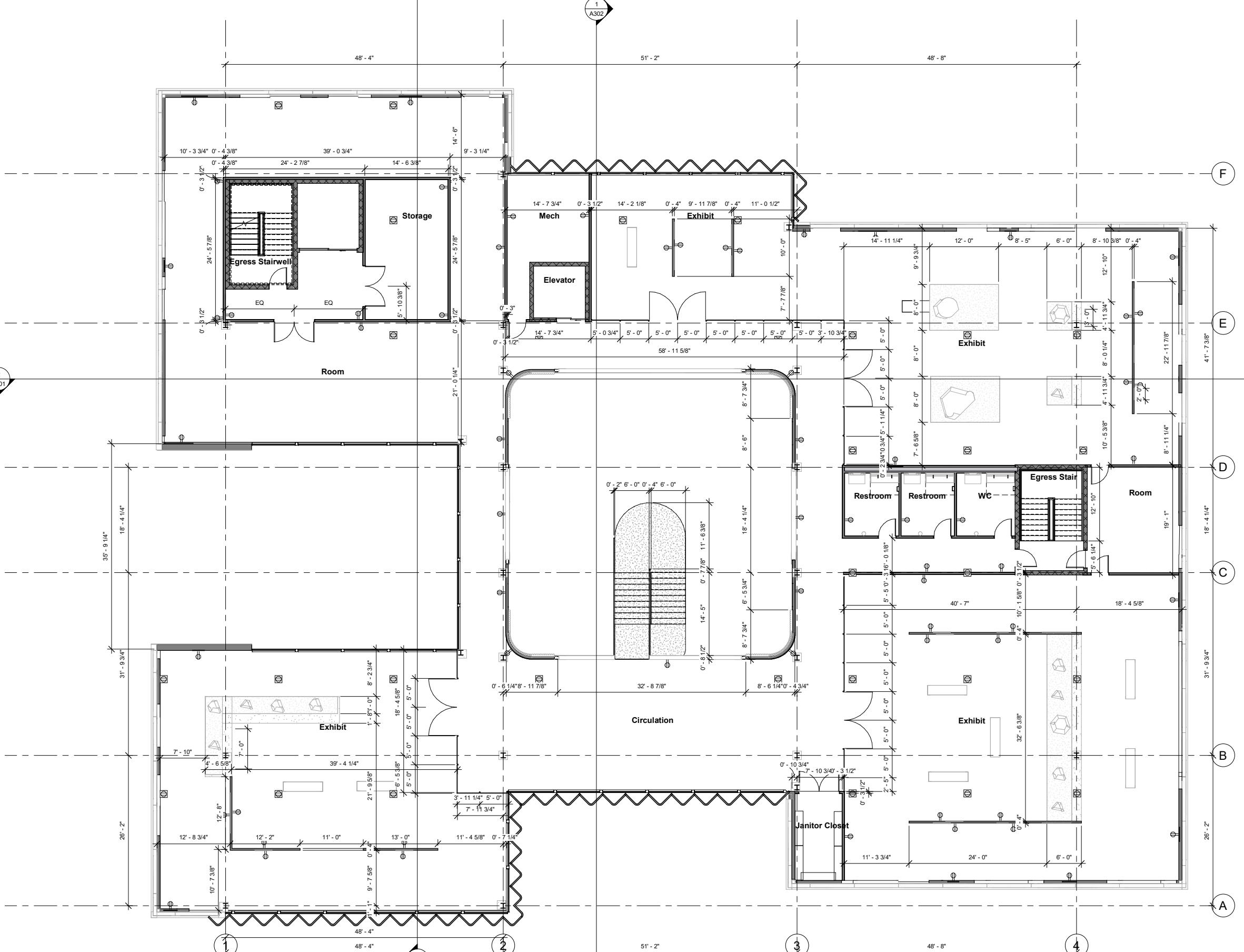
1/8" = 1'-0"

The KYc

Date 4/25/25
Drawn by BM
Checked by NK

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- Nationals Review 2 5/13/25
- Nationals Final Export 5/19/25



Level 3 Floorplan
A103
1/8" = 1'-0"

① Level 3 Floorplan
1/8" = 1'-0"

The KYc

Date 4/25/25
Drawn by BM
Checked by NK

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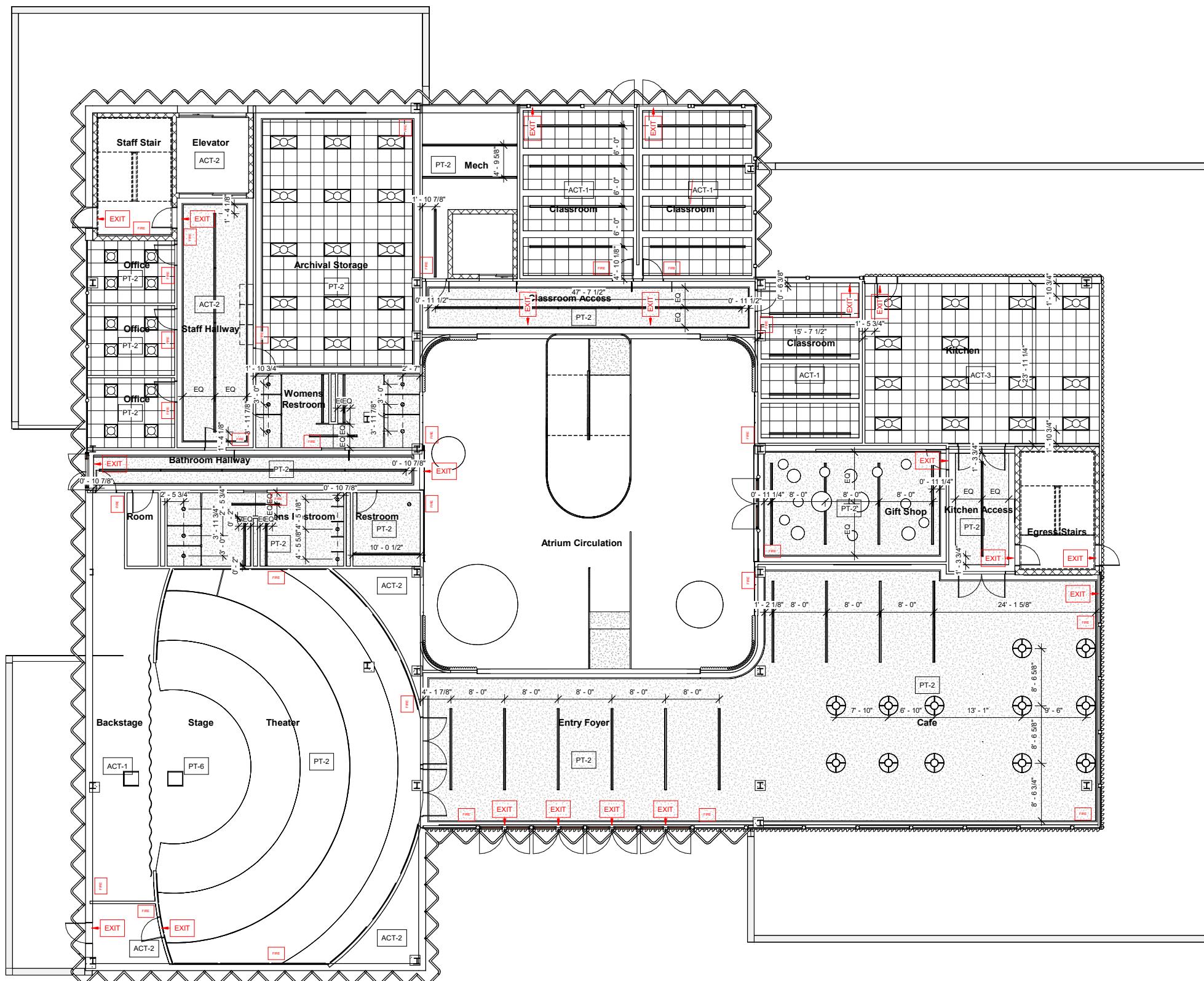
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Nations Review 2 5/13/25
Nations Final Export 5/19/25



Level 1 RCP

A104

1/8" = 1'-0"



The KYC

Date	4/25/25
Drawn by	BM
Checked by	NK

Revisions

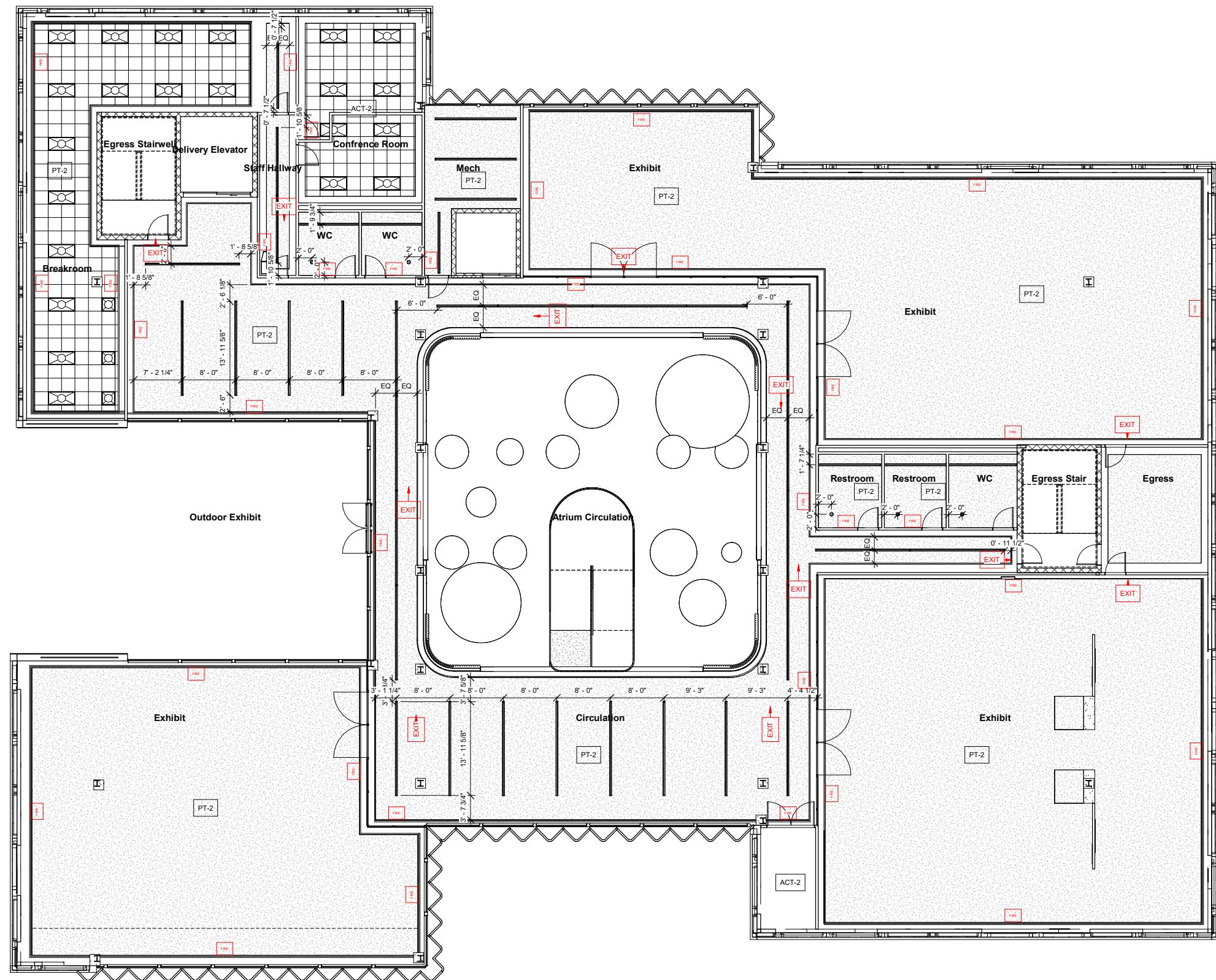
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- Nationals Prep. 4/21/25
- Nationals Review 1 5/5/25
- Nationals Review 2 5/13/25
- Nationals Final Export 5/19/25



Level 2 RCP

A105

1/8" = 1'-0"



1 RCP Level 2
1/8" = 1'-0"

The KYc

Date 4/25/25
Drawn by Author
Checked by Checker

Revisions

Winter Progress 12/18/24
Sheet Formatting 1/21/25
State Preparation 3/4/25
State Final Export 3/7/25
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Nations Review 2 5/13/25
Nations Final Export 5/19/25



Level 3 RCP

A106

1/8" = 1'-0"

The KYc

Date 5/19/25
Drawn by BM
Checked by NK

Revisions

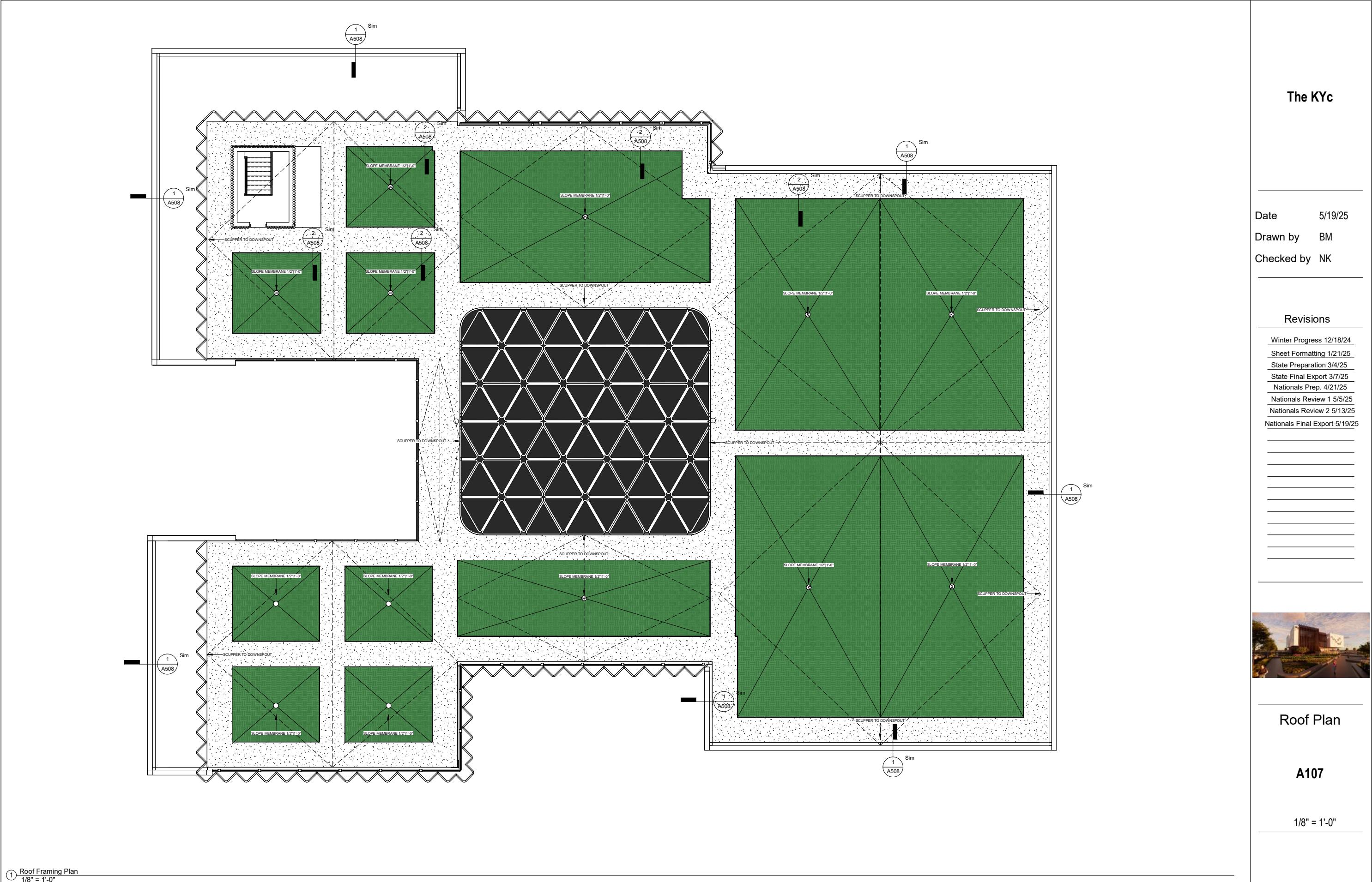
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Nationals Review 1 5/5/25
Nationals Review 2 5/13/25
Nationals Final Export 5/19/25



Roof Plan

A107

1/8" = 1'-0"



The KYC

Date	4/25/25
Drawn by	BM
Checked by	Checker

Revisions

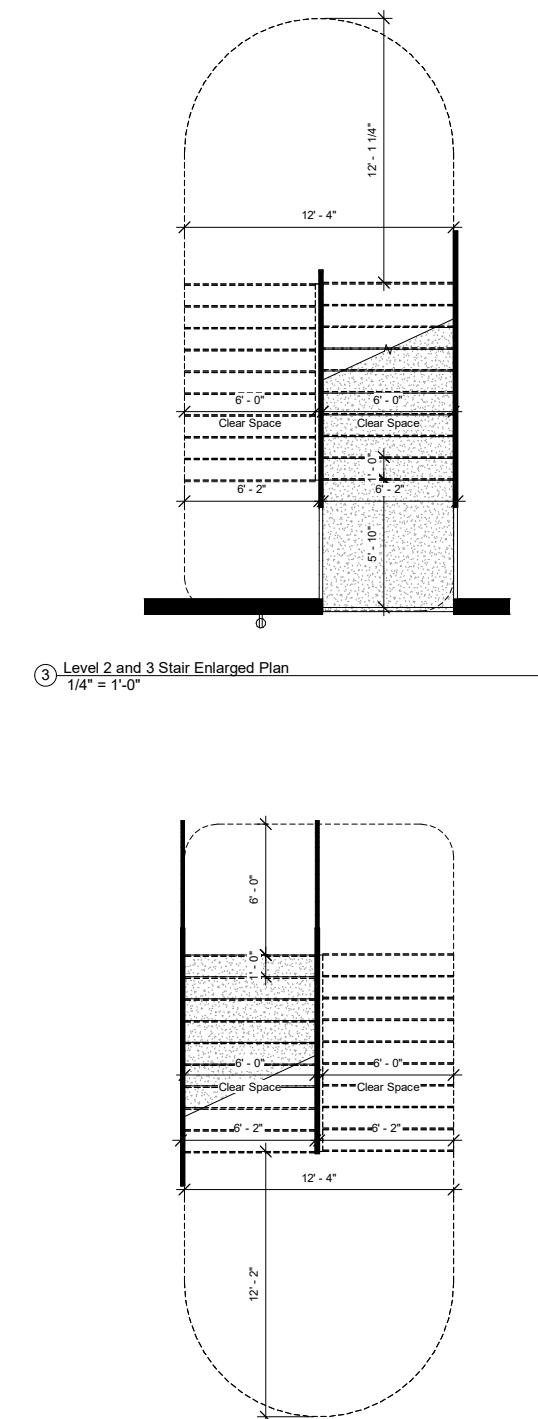
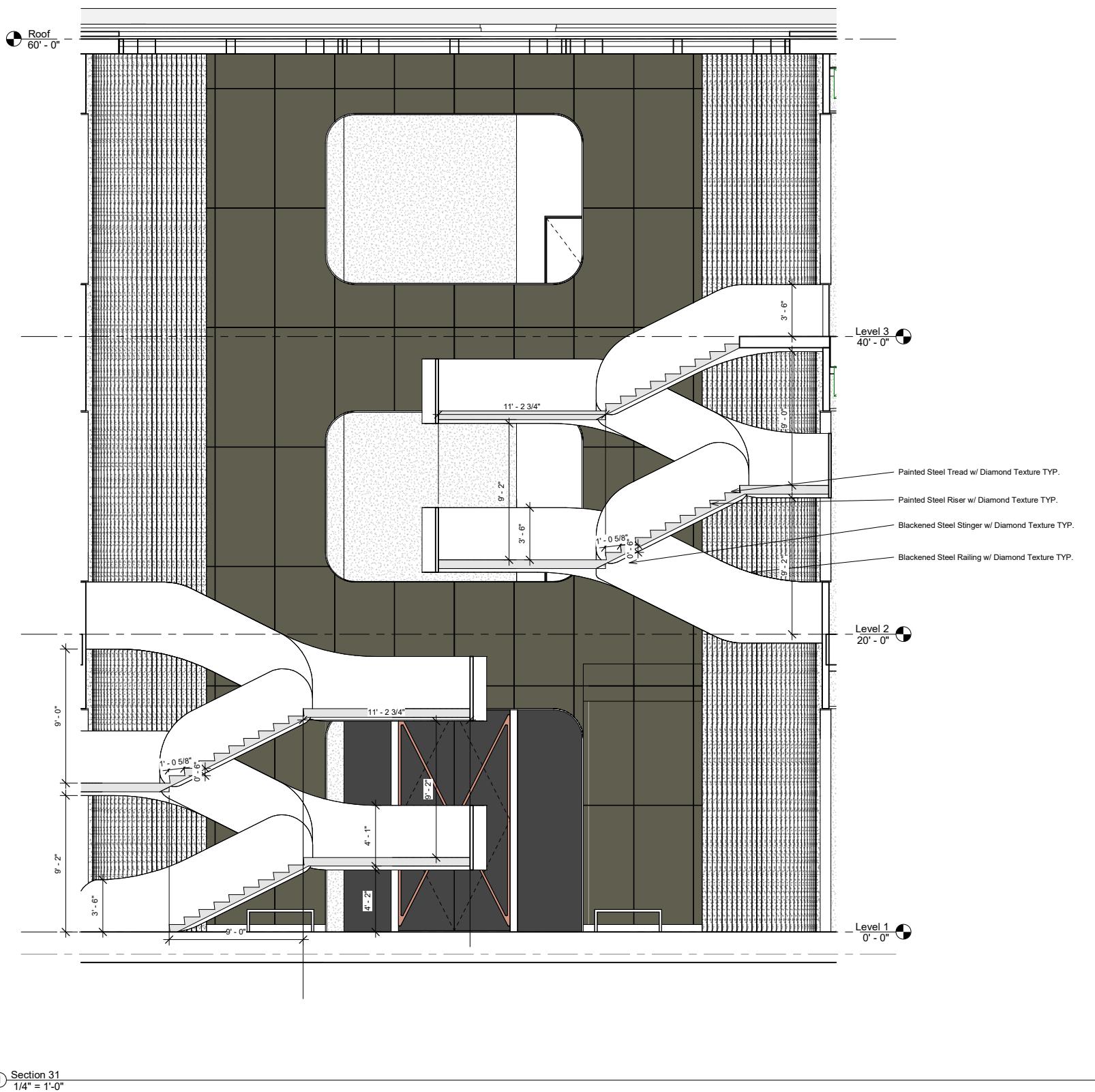
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- [Nationals Review 2 5/13/25](#)
- [Nationals Final Export 5/19/25](#)



Atrium Stair Plans

A108

1/4" = 1'-0"



2 Level 1 and 2 Stair Enlarged Plans
1/4" = 1'-0"

The KYc

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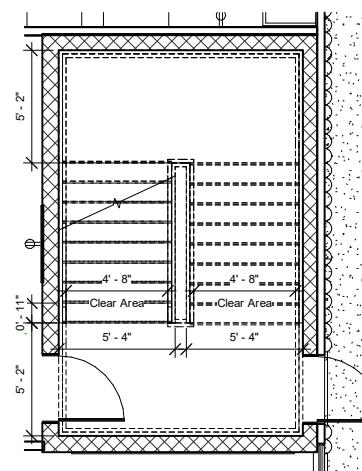
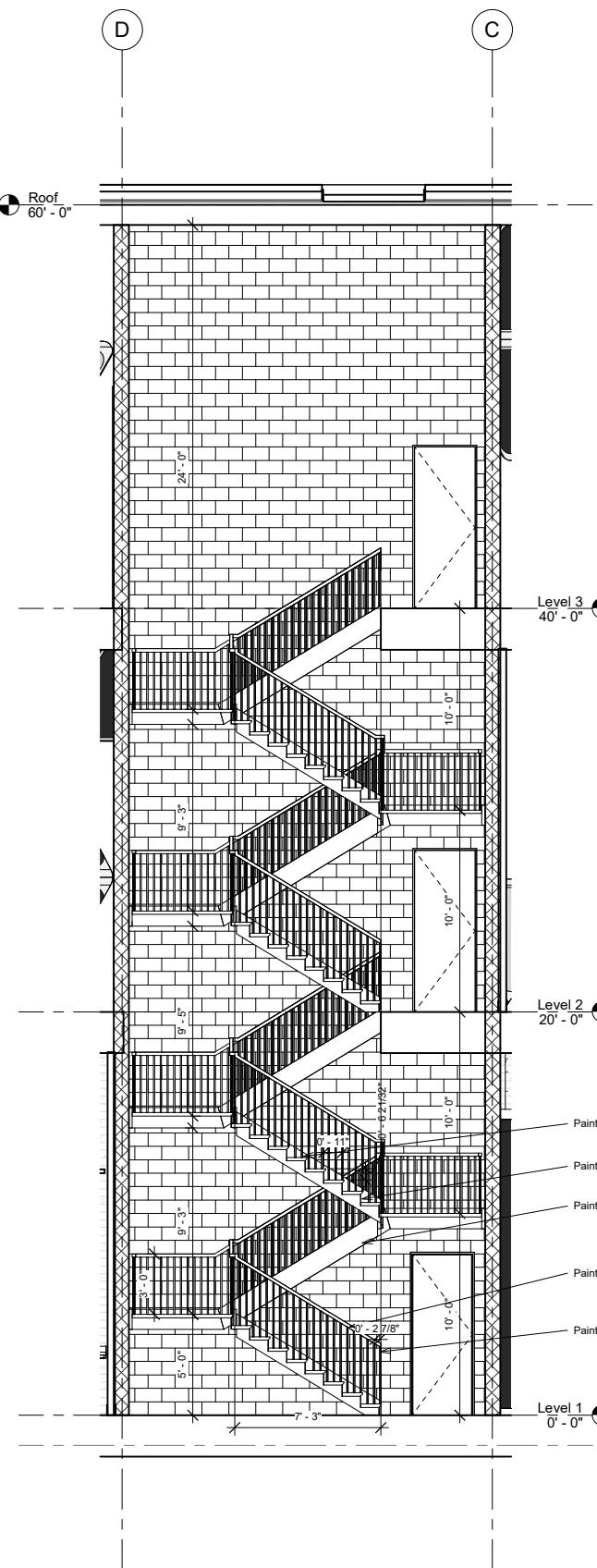


Stair Plans Right Side

A109

1/4" = 1'-0"

① Stair Plans Right Side
1/4" = 1'-0"



② Enlarged Stair Plan Right Side
1/4" = 1'-0"

1/4" = 1'-0"

The KYC

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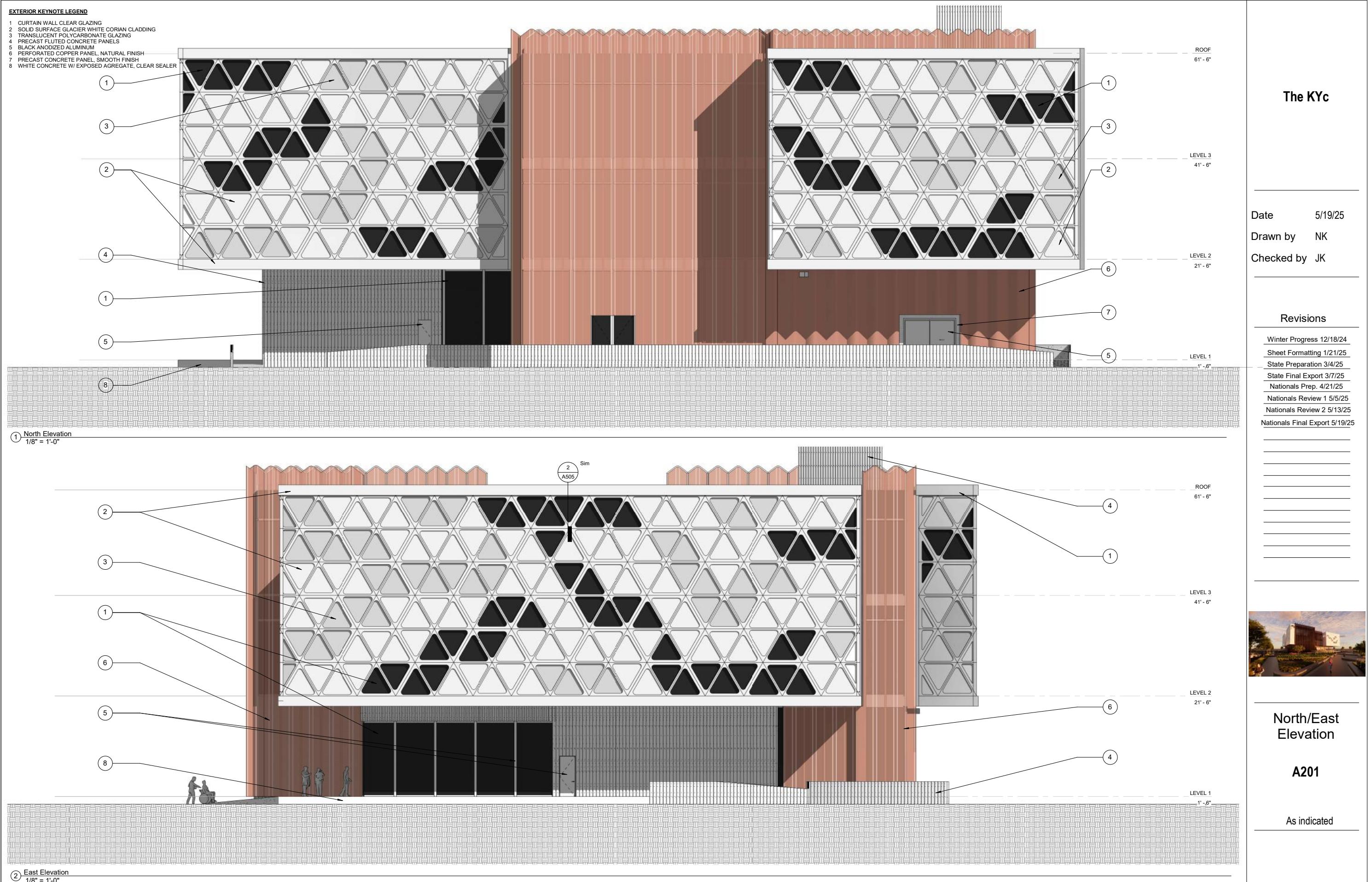
Stair Plans Left Side

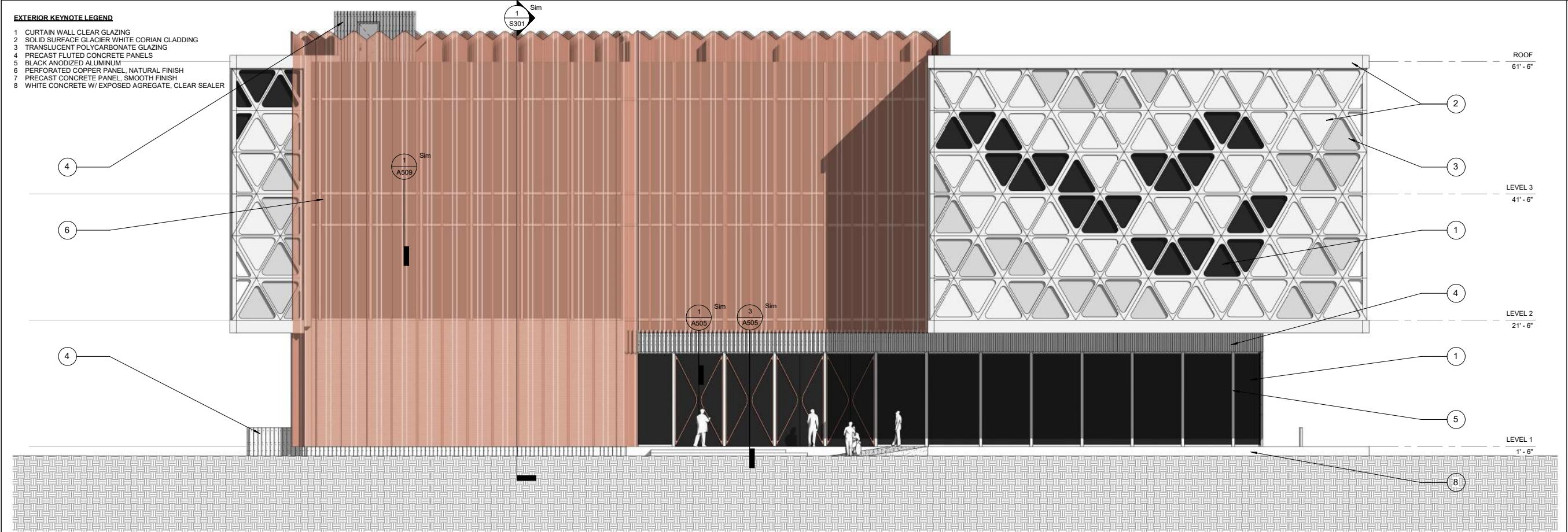
A110

1 Stair Plans Left Side
1/4" = 1'-0"

1/4" = 1'-0"





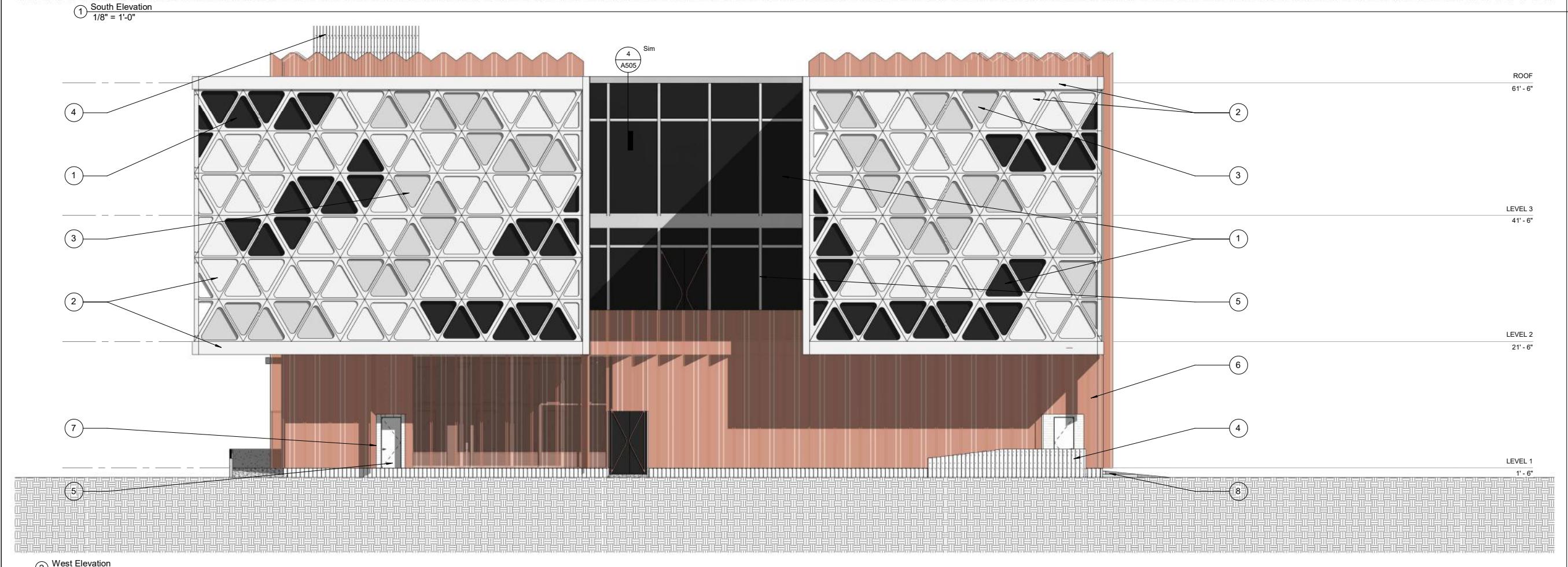


The KYc

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South/West Elevation

A202

As indicated

The KYC

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Checked by	Checker

Revisions

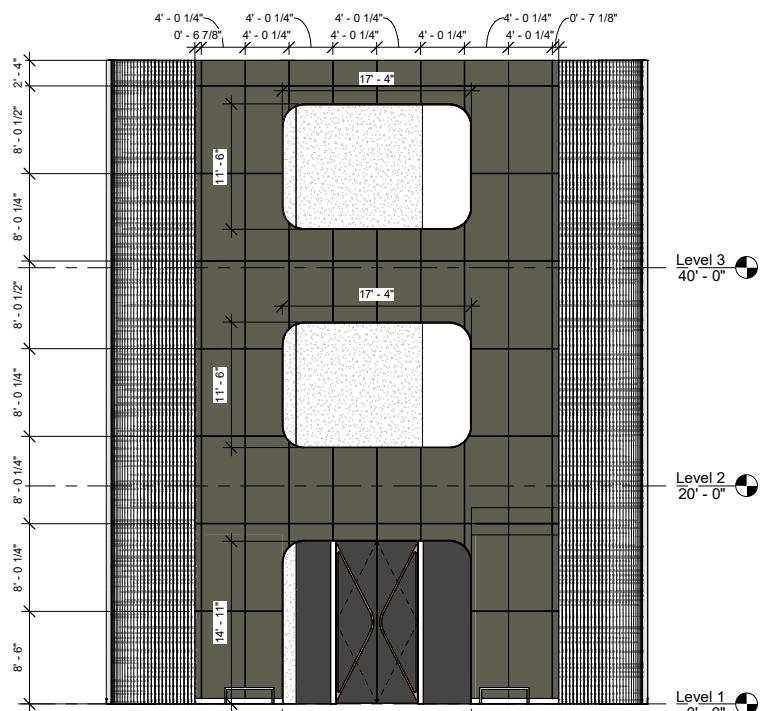
- Winter Progress 12/18/24
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- Nationals Final Export 5/19/25



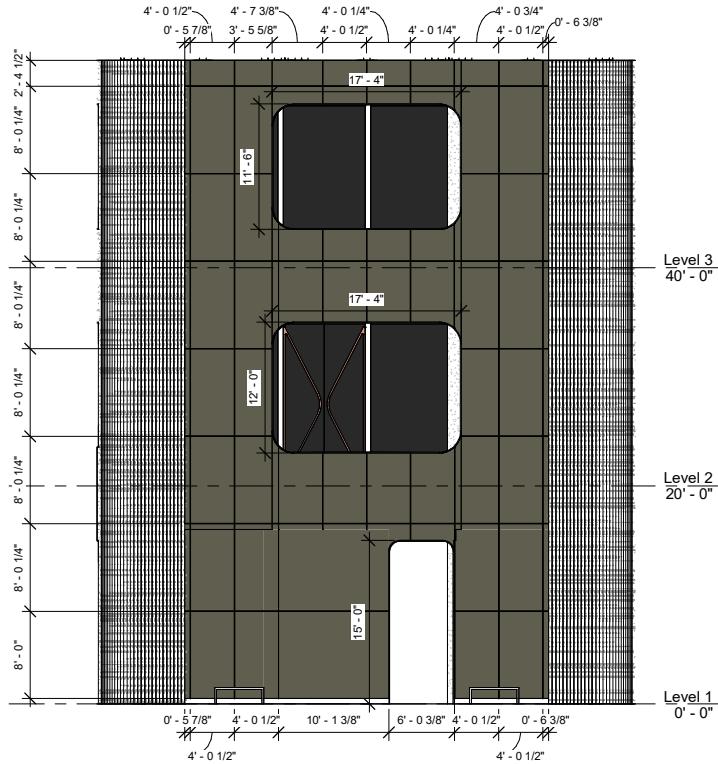
Interior Elevations

A203

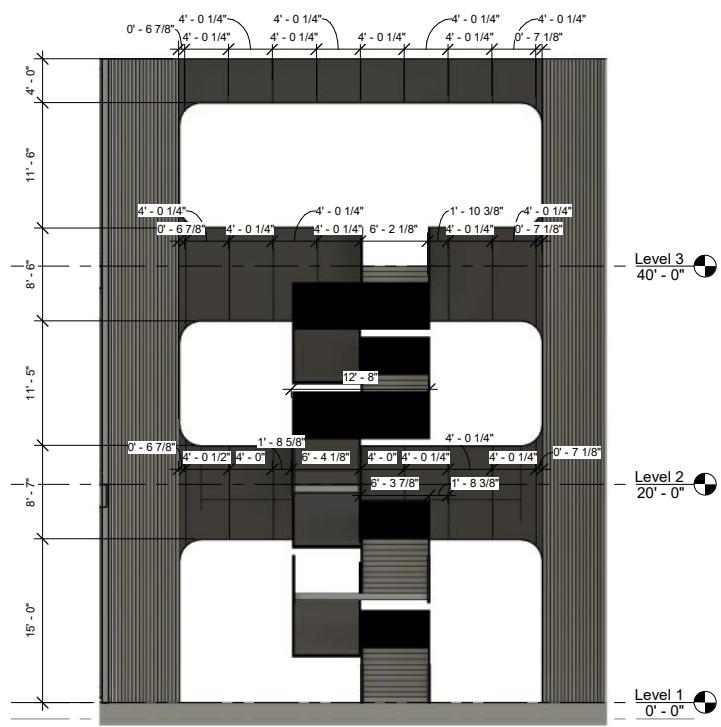
1/8" = 1'-0"



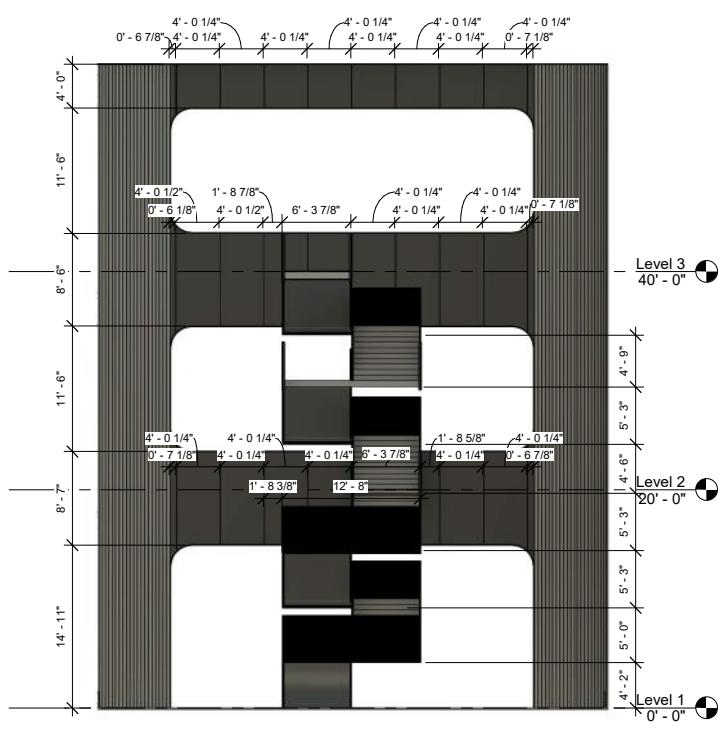
1 Interior Elevation - West
1/8" = 1' 0"



2 Interior Elevation - East
1/8" = 1' 0"



3 Interior Elevation - South
1/8" = 1'-0"



4 Interior Elevation - North
1/8" = 1'-0"



① Section - Sculpture Exhibit
1/8" = 1'-0"

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Building Sections

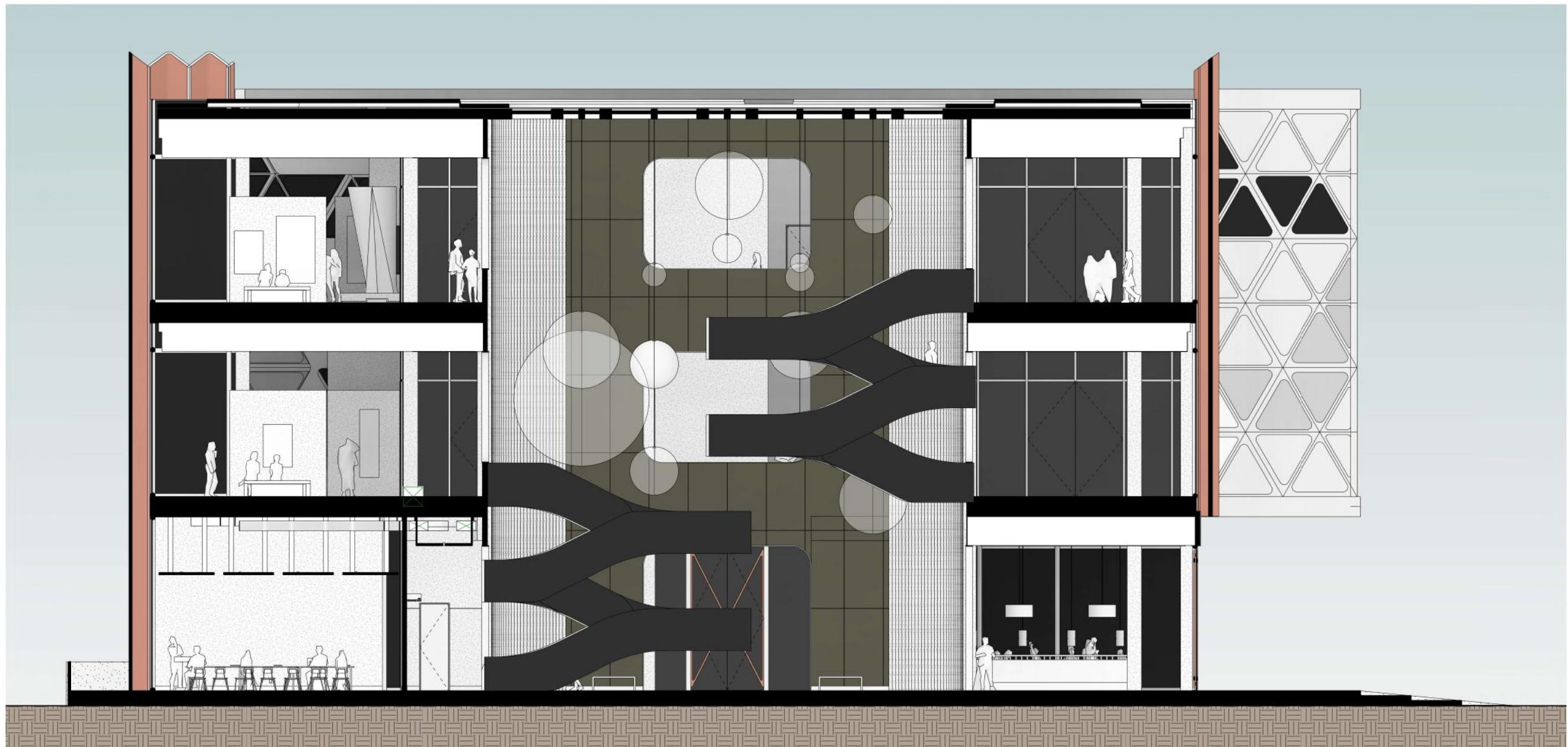
A301

1/8" = 1'-0"



② Section - Atrium Facing S
1/8" = 1'-0"

The KYc



① Section - Atrium Facing W
3/16" = 1'-0"

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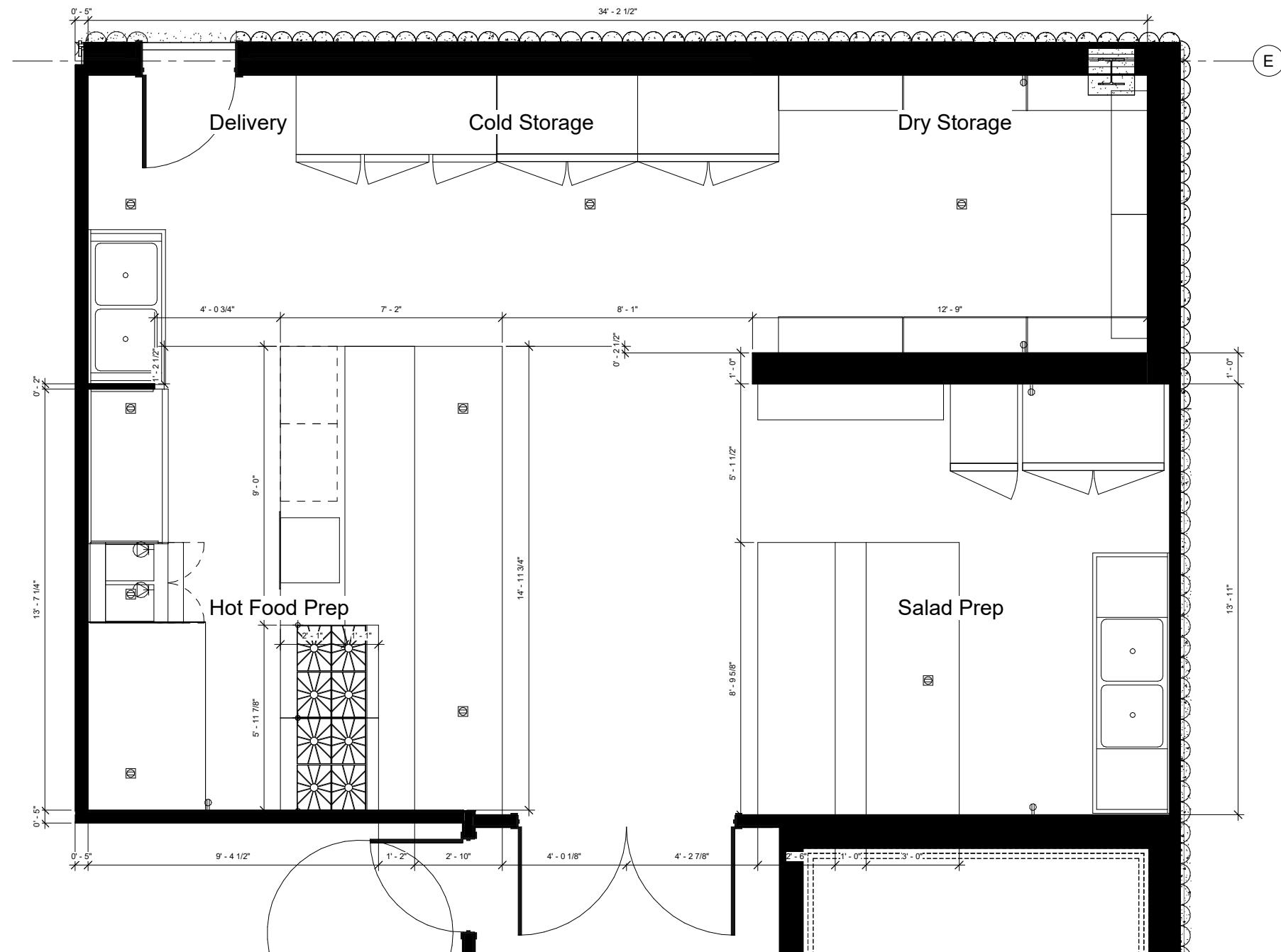


Building
Sections
Continued

A302

3/16" = 1'-0"

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Nationals Review 2	5/13/25
Nationals Final Export	5/19/25

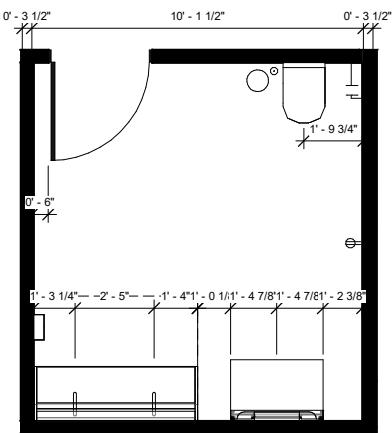


Englarged Kitchen Plan

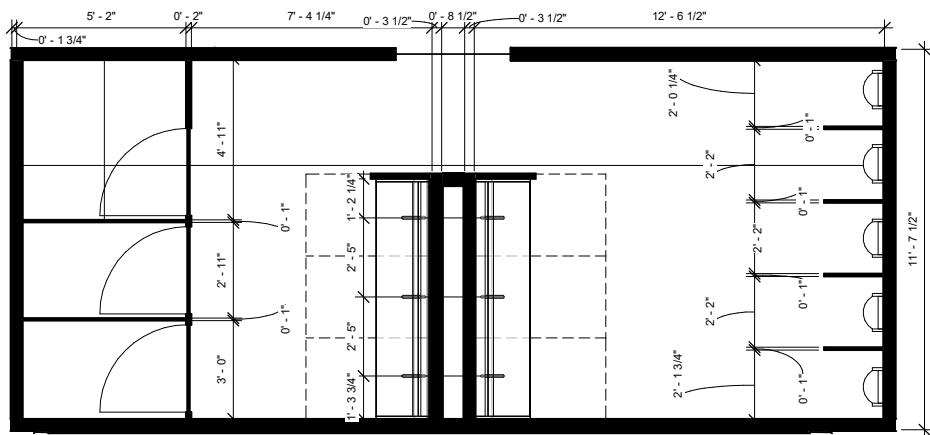
A401

1/2" = 1'-0"

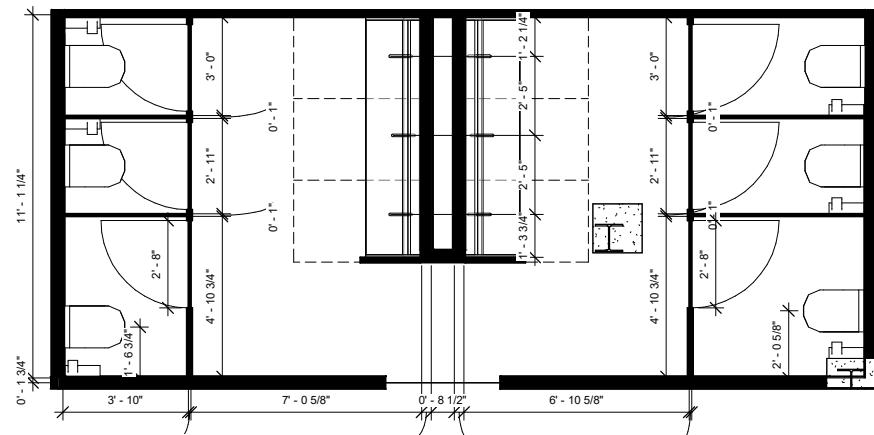
1 Level 1 - Kitchen
1/2" = 1'-0"



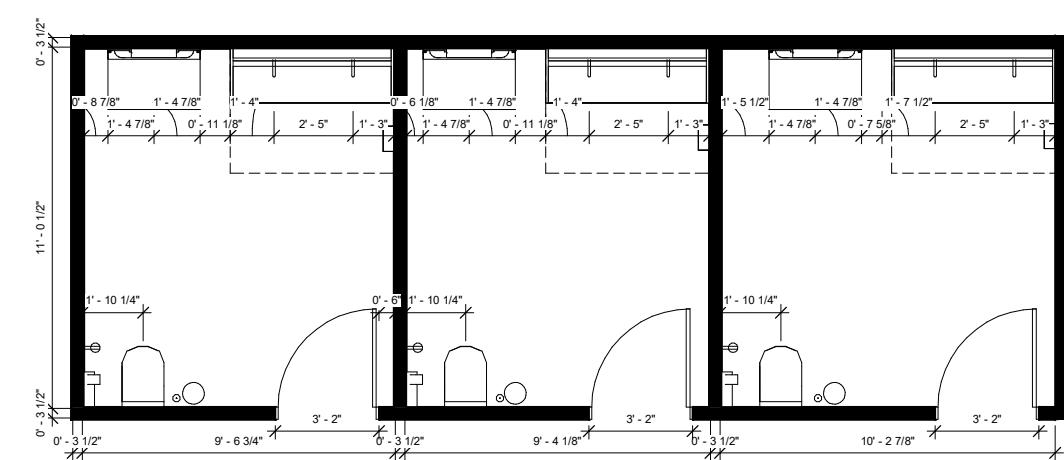
1 Level 1 - Family Restroom
3/8" = 1'-0"



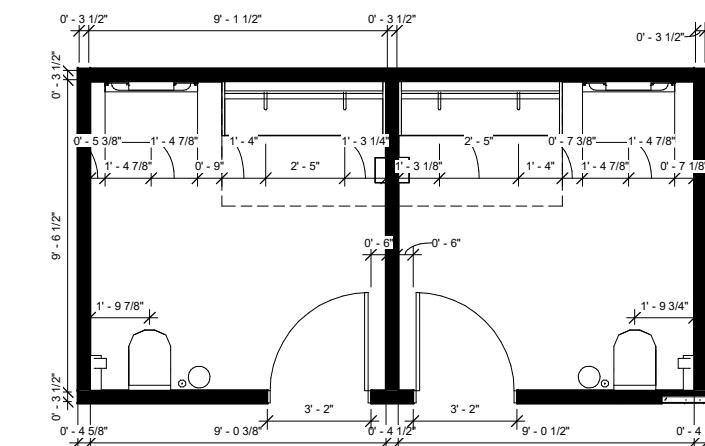
② Level 1 - Mens Restroom
3/8" = 1'-0"



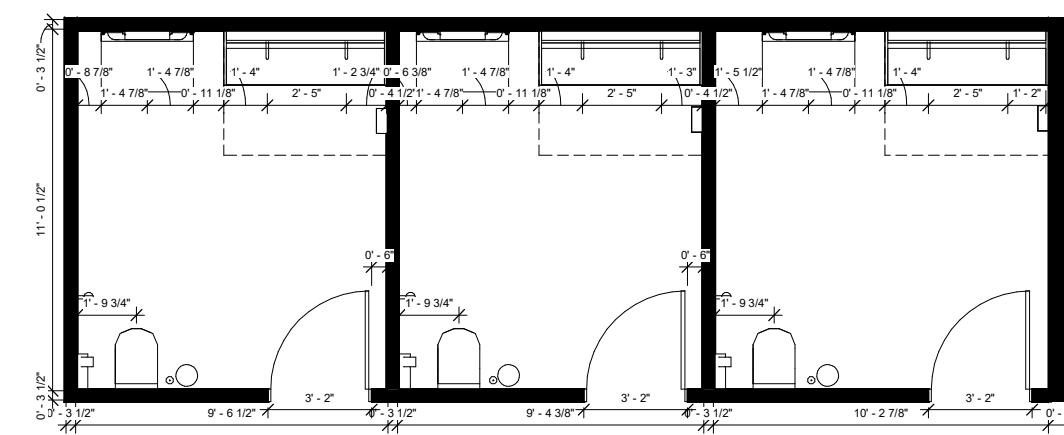
③ Level 1 - Womens Restroom
3/8" = 1'-0"



④ Level 2 - Public Restroom
3/8" = 1'-0"



5 Level 2 - Staff Restroom
3/8" = 1'-0"



⑥ Level 3 - Public Restroom
3/8" = 1'-0"

The KYC

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Checked by NK

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Englarged Restroom Plans

A402

3/8" = 1'-0"

The KYc

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Checked by Checker

Revisions

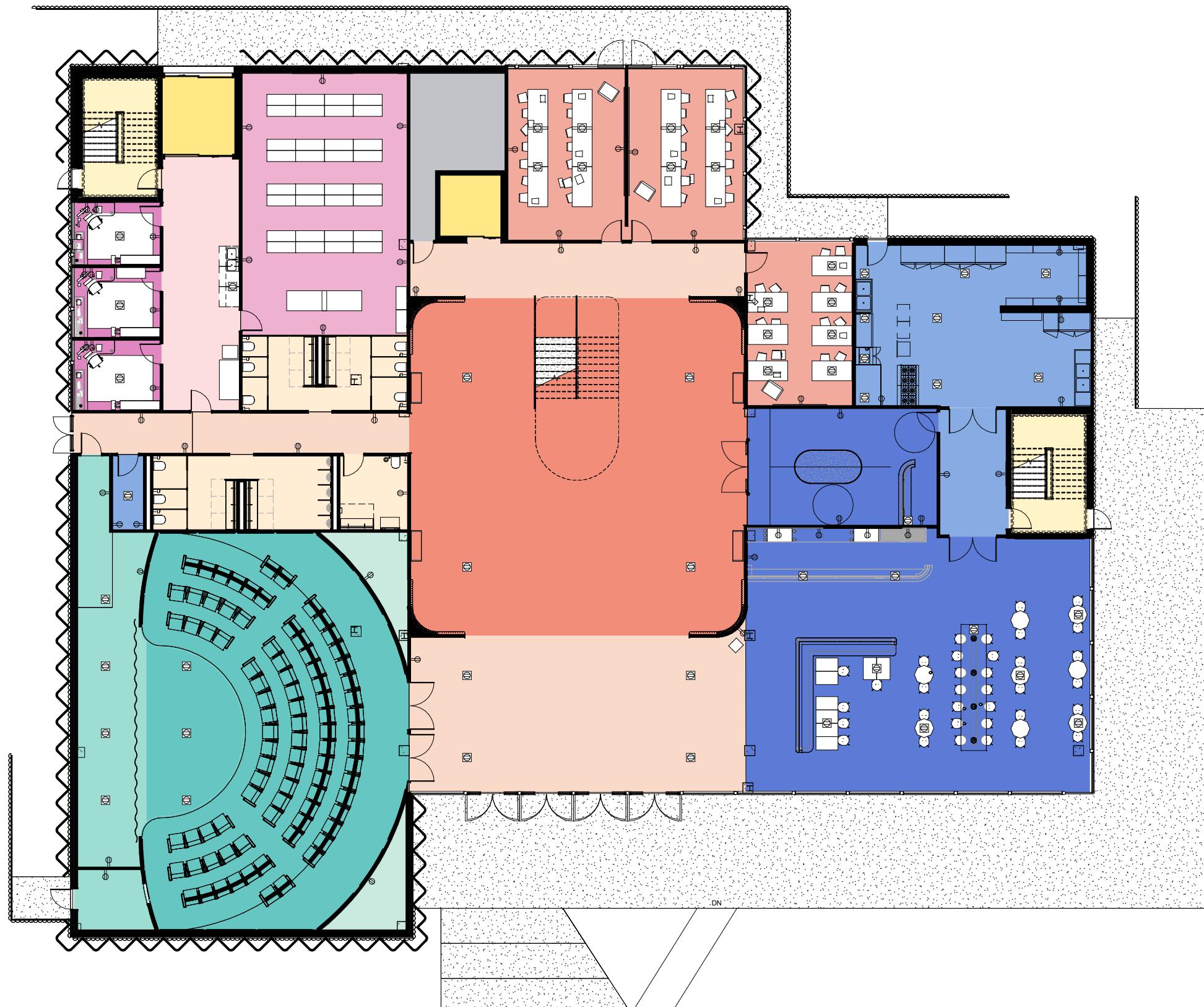
Winter Progress 12/18/24
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State Final Export 3/7/25
Nationals Prep. 4/2/25
Nationals Review 1 5/5/25
Nationals Review 2 5/13/25
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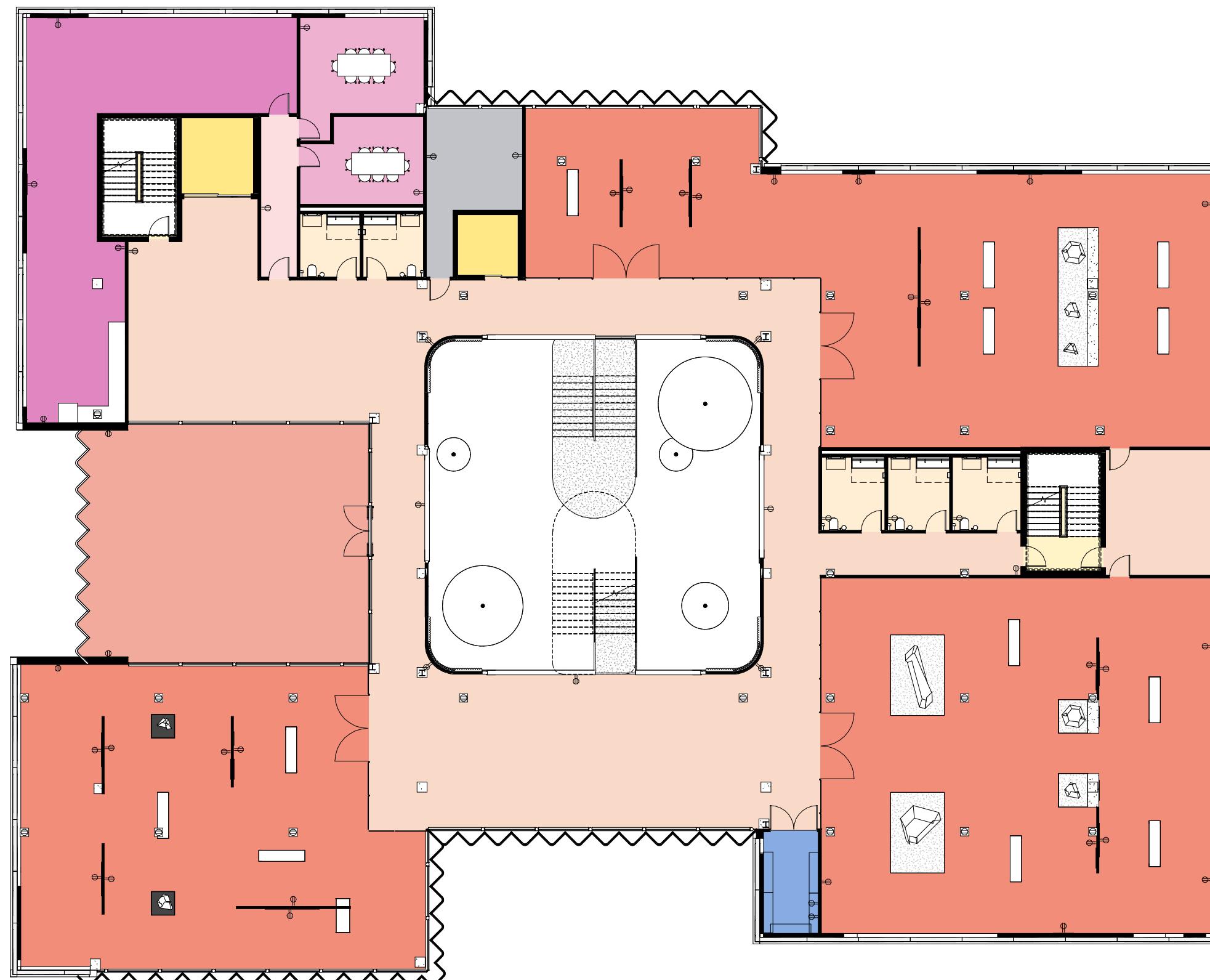


Level 1
Furniture Plan

A501

1/8" = 1'-0"





The KYc

Date 4/25/25

Drawn by Author

Checked by Checker

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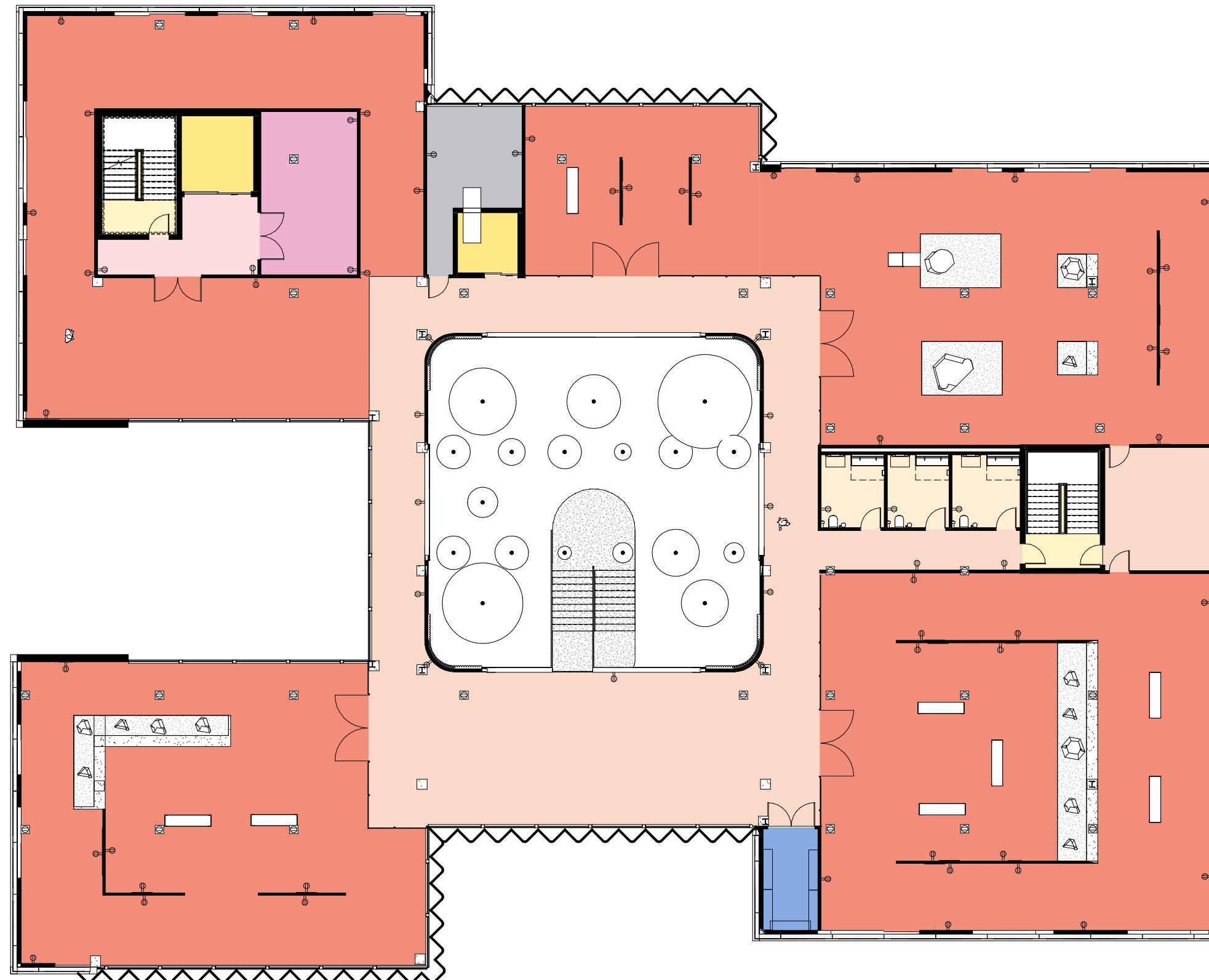
Winter Progress 12/18/24
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Level 2
Furniture Plan

A502

1/8" = 1'-0"



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Level 3
Furniture Plan

A503

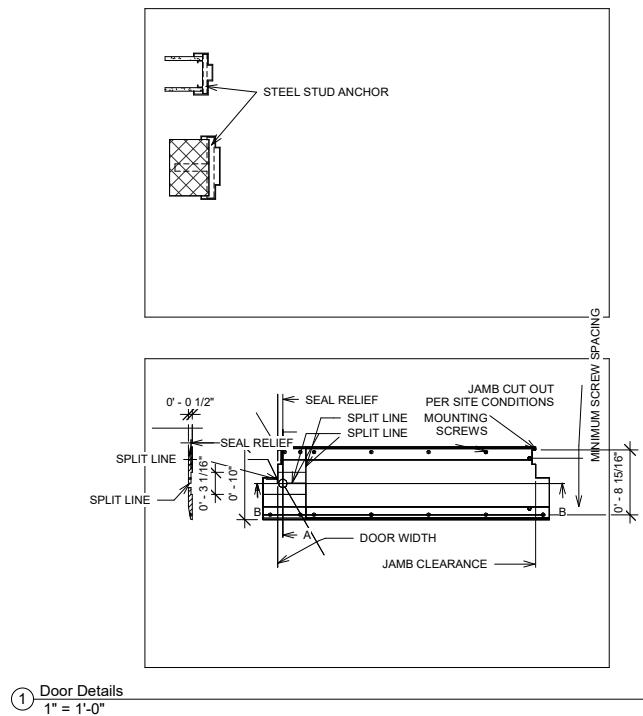
1/8" = 1'-0"

The KYc

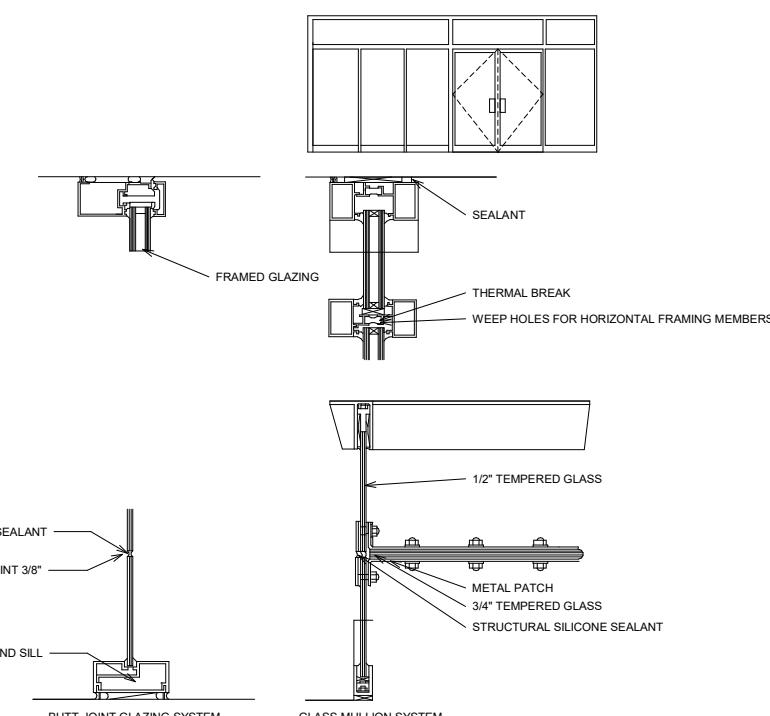
Date 5/19/25
 Drawn by BM
 Checked by NK

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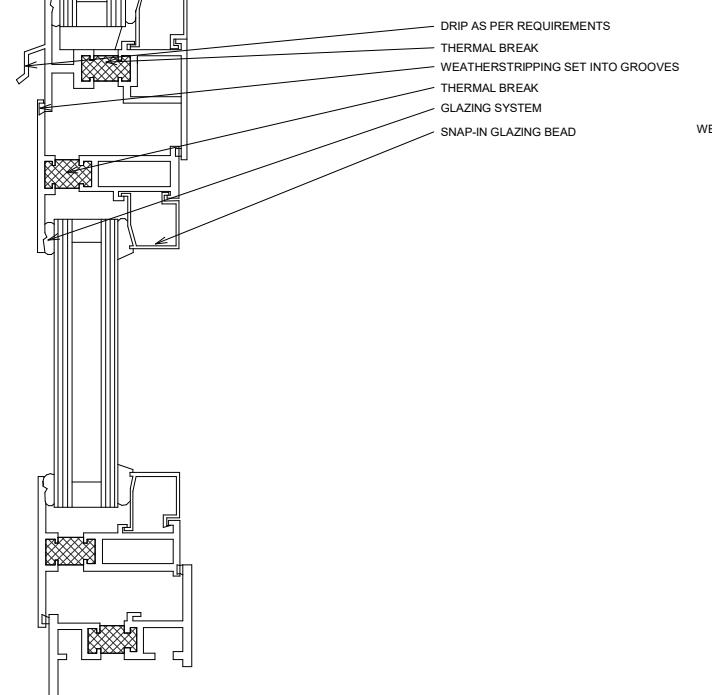
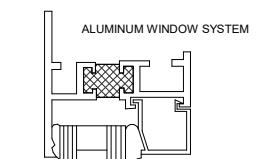
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[Nationals Prep. 4/21/25](#)
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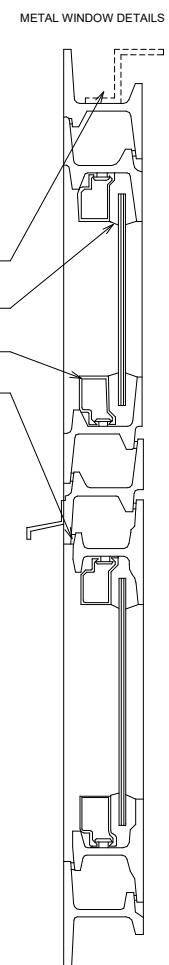
① Door Details
 1" = 1'-0"



③ Storefront Details
 1" = 1'-0"



② Window Details
 12" = 1'-0"



④ Metal Window Details
 3" = 1'-0"



Window and Door Details

A504

As indicated

The KYc

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Revisions

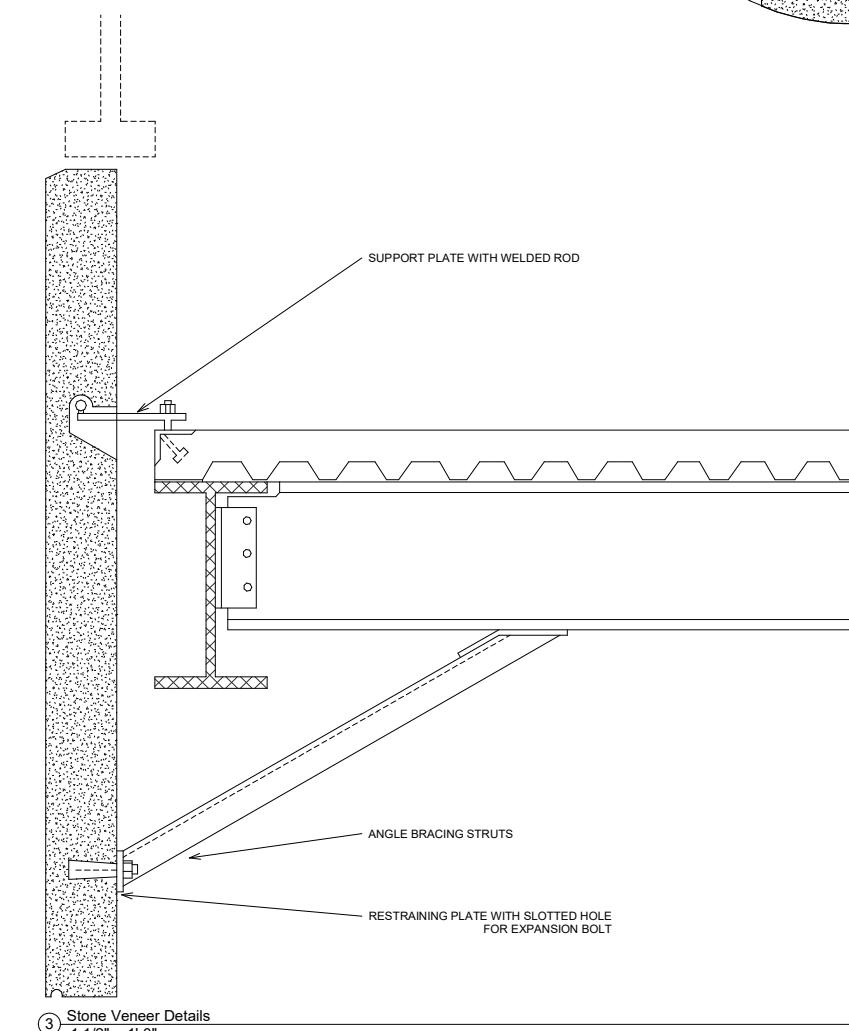
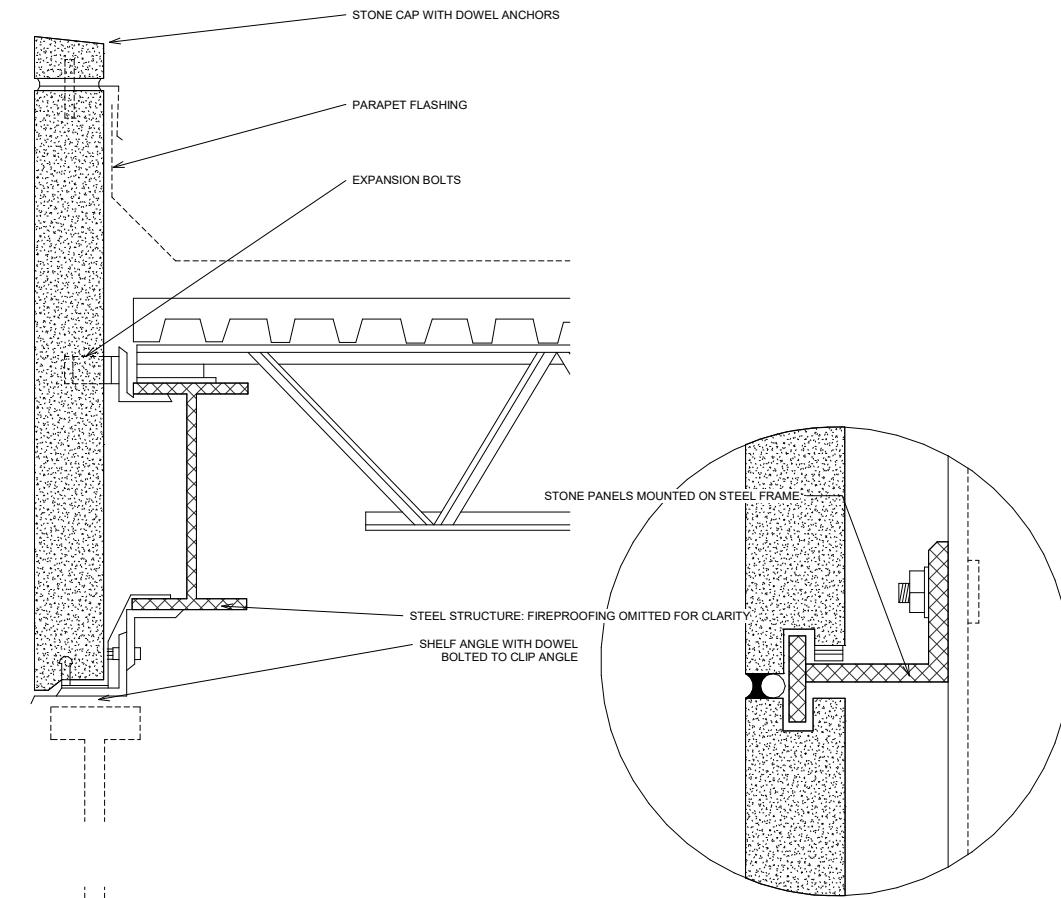
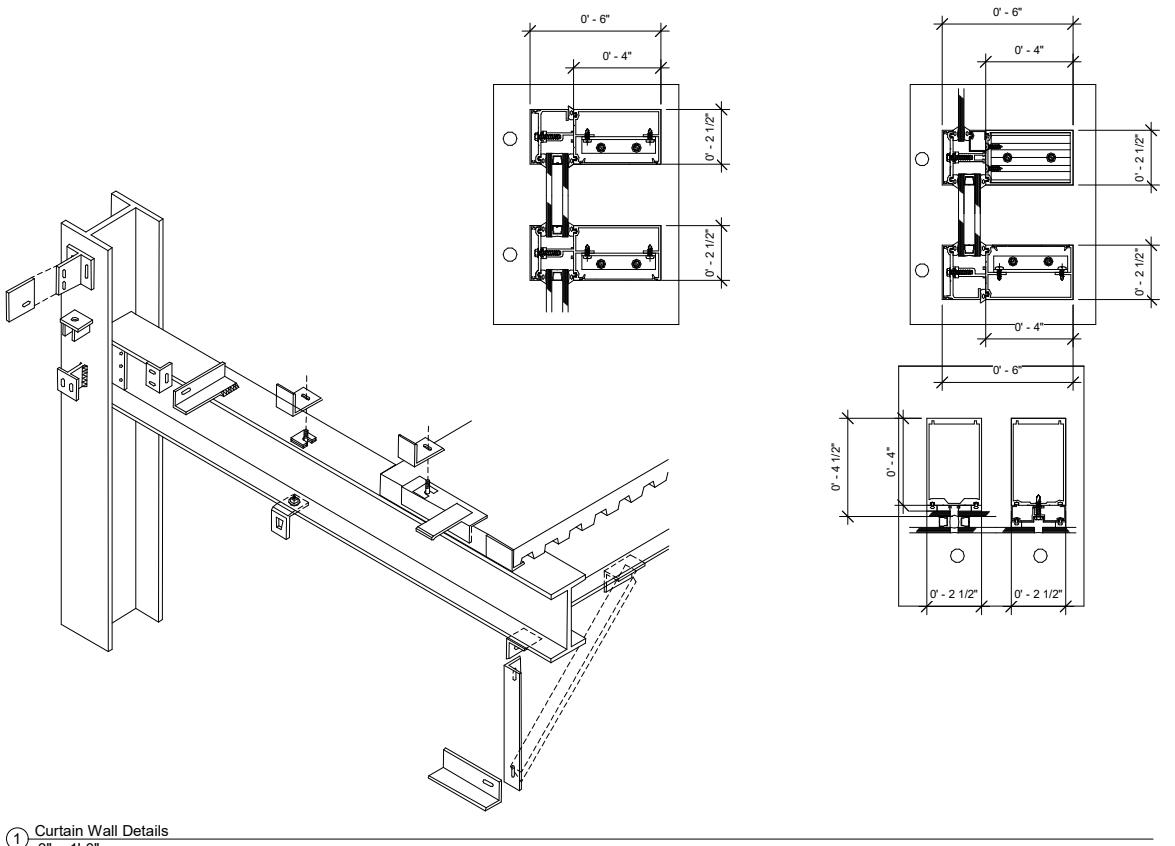
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Wall Details

A505

As indicated



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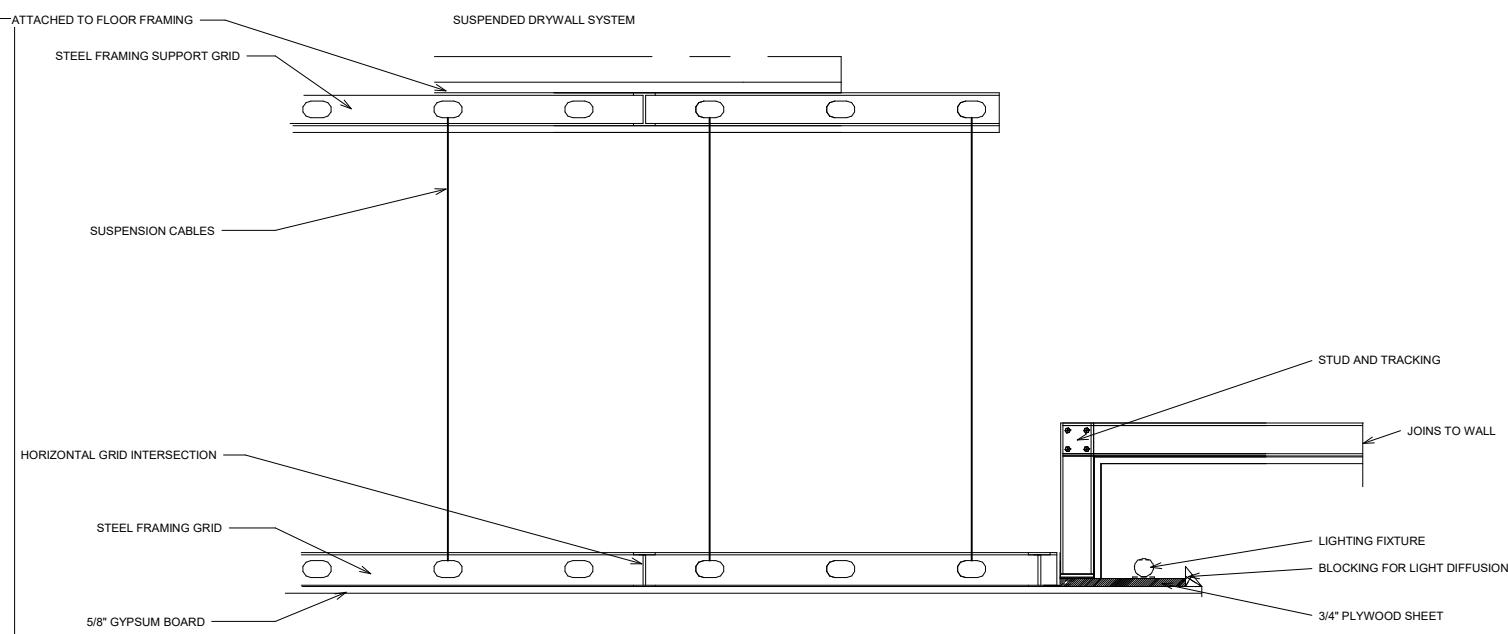
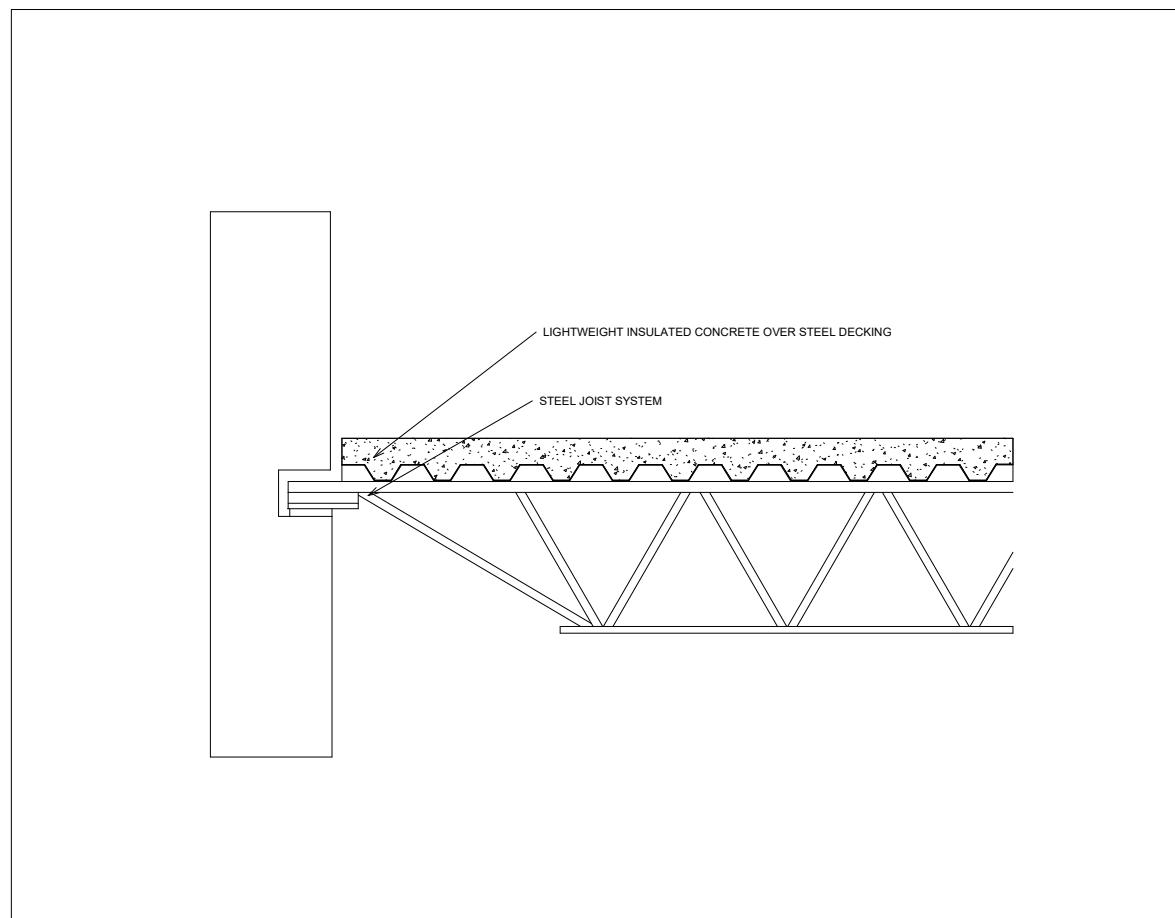
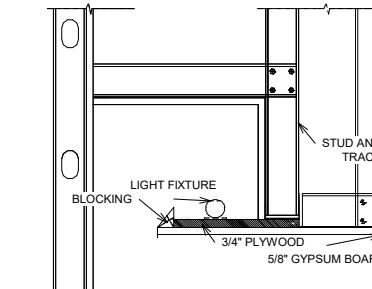
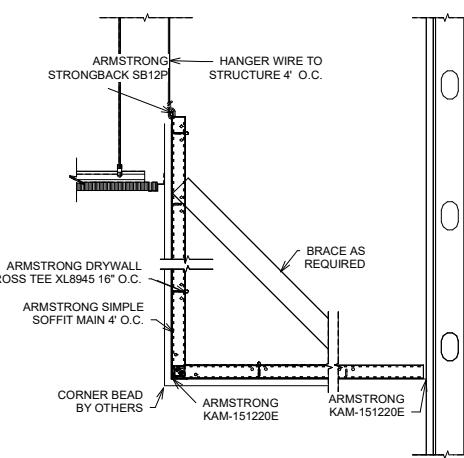
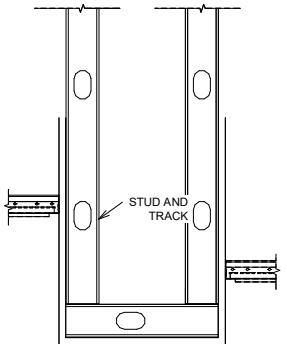
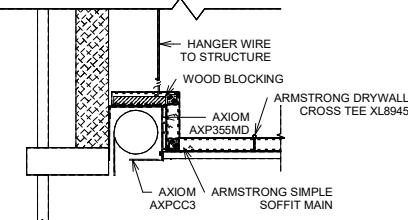


Floor and Ceiling Details

A506

1 1/2" = 1'-0"

① Ceiling Details
 1 1/2" = 1'-0"



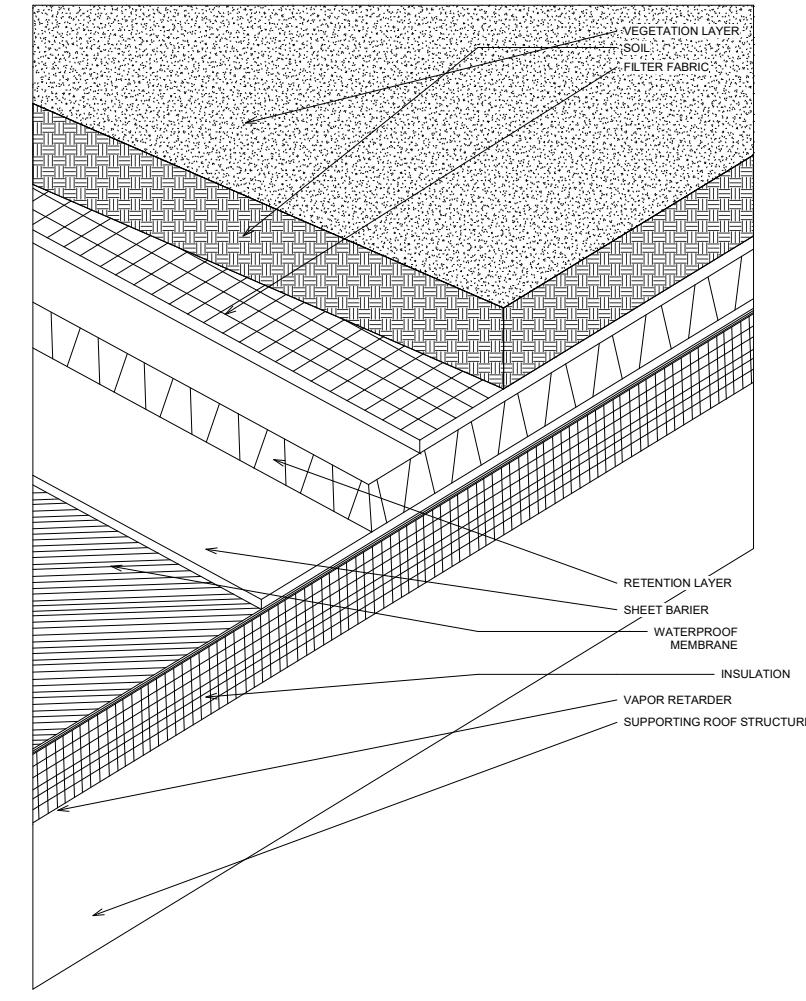
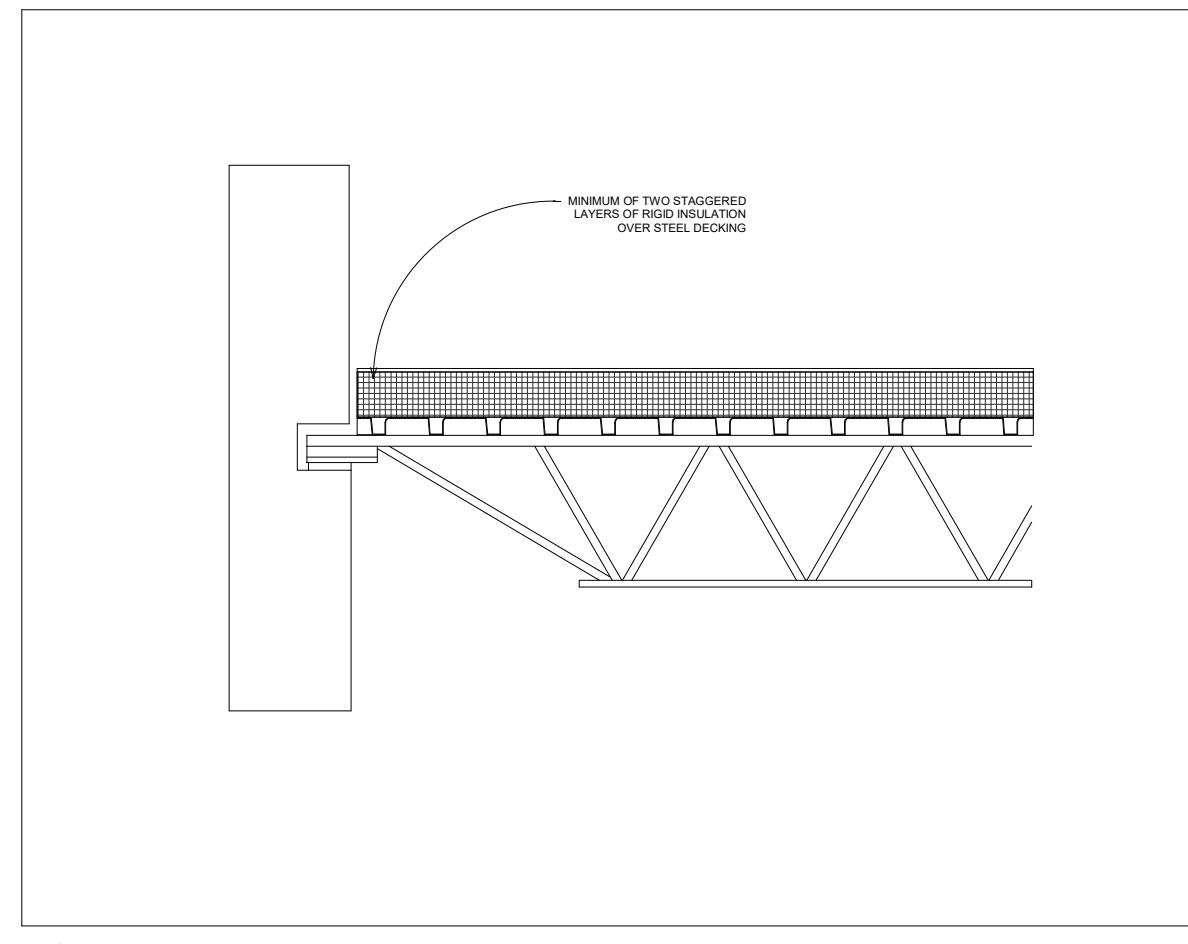
② Floor Details
 1 1/2" = 1'-0"

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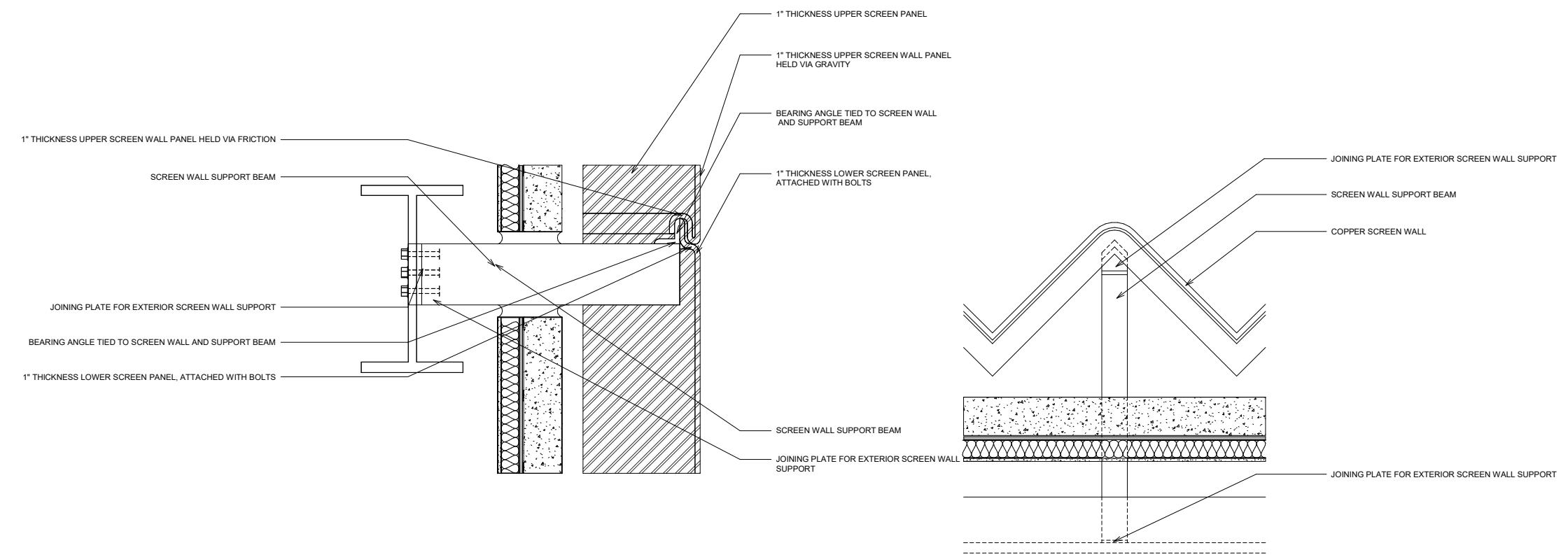


Roof Details

A507

As indicated

The KYc



① Screen Wall Detail
1" = 1'-0"

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Screen Wall
Details

A508

1" = 1'-0"

The KYc

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Finish Schedule													
Name	Trim Finish	Floor Finish	Base Finish	Wall Finish	Accent Wall Finish	Ceiling Finish	Door Leaf	Door Hardware	Door Frame	Door Fixtures	Plumbing Fixtures	Hardware	Miscellaneous
Archival Storage	N/A	CPT-2	RB-2	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Atrium Circulation	HD-2	TZ-1	TZ-1	PT-1	WD-4	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Backstage	N/A	WD-3	RB-3	PT-5	N/A	ACT-1	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Bathroom Hallway	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Break Room	N/A	CPT-2	RB-2	PT-1	PT-4	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Cafe	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Circulation	HD-2	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Classroom	N/A	CPT-1	RB-1	PT-1	PT-4	ACT-1	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Classroom Access	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Conference Room	N/A	CPT-2	RB-2	PT-1	PT-4	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Delivery Elevator	N/A	TZ-1	TZ-1	PT-1	N/A	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Dressing	N/A	WD-3	RB-3	PT-1	N/A	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Egress	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Egress Stair	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Egress Stairs	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Egress Stairwell	N/A	CONC-2	RB-1	CMU-1	N/A	EXP-1	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Elevator													
Entry Foyer	HD-2	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	COP-1	WD-1	N/A	N/A	N/A	N/A
Exhibit	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	HD-3
Gift Shop	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	HD-3
Janitor Closet													
Kitchen	N/A	TL-1	TL-1	FRP-1	N/A	ACT-3	PT-3	HD-1	PT-3	N/A	N/A	N/A	N/A
Kitchen Access	N/A	TZ-1	TZ-1	PT-1	N/A	PT-2	PT-3	HD-1	PT-3	N/A	N/A	N/A	N/A
Mech	N/A	CONC-2	RB-1	PT-1	N/A	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Mens Restroom	N/A	TZ-1	TZ-1	HD-2	N/A	PT-2	PLAM-1	HD-5	N/A	PC-1	PC-2	HD-4	Mirror-1
Office	N/A	CPT-2	RB-2	PT-1	PT-4	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Outdoor Exhibit													
Restroom	N/A	TZ-1	TZ-1	HD-2	N/A	PT-2	PLAM-1	HD-5	N/A	PC-1	PC-2	HD-4	Mirror-1
Room													
Staff Hallway	N/A	CPT-2	RB-2	PT-1	PT-4	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Staff Stair	N/A	CONC-2	RB-1		N/A	N/A	HD-6	HD-1	HD-6	N/A	N/A	N/A	N/A
Stage	N/A	WD-3	RB-3		N/A	PT-6	PT-3	HD-1	PT-3	N/A	N/A	N/A	UP-1
Storage	N/A	CPT-2	RB-2	PT-1	PT-4	ACT-2	PT-3	HD-1	PT-3	N/A	N/A	N/A	N/A
Tech	N/A	CPT-3	RB-3	PT-5	N/A	ACT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	N/A
Theater	N/A	CPT-3	RB-3	CONC-1	WD-2	PT-2	WD-1	HD-1	WD-1	N/A	N/A	N/A	UP-2
WC													
Womens Restroom	N/A	TZ-1	TZ-1	HD-2	N/A	PT-2	PLAM-1	HD-5	N/A	PC-1	PC-2	HD-4	Mirror-1



Level 1 Finish Schedule

A601

The KYC

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Foundation Plan

S101

1" = 10'-0"

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- Nationals Review 2 5/13/25
- Nationals Final Export 5/19/25

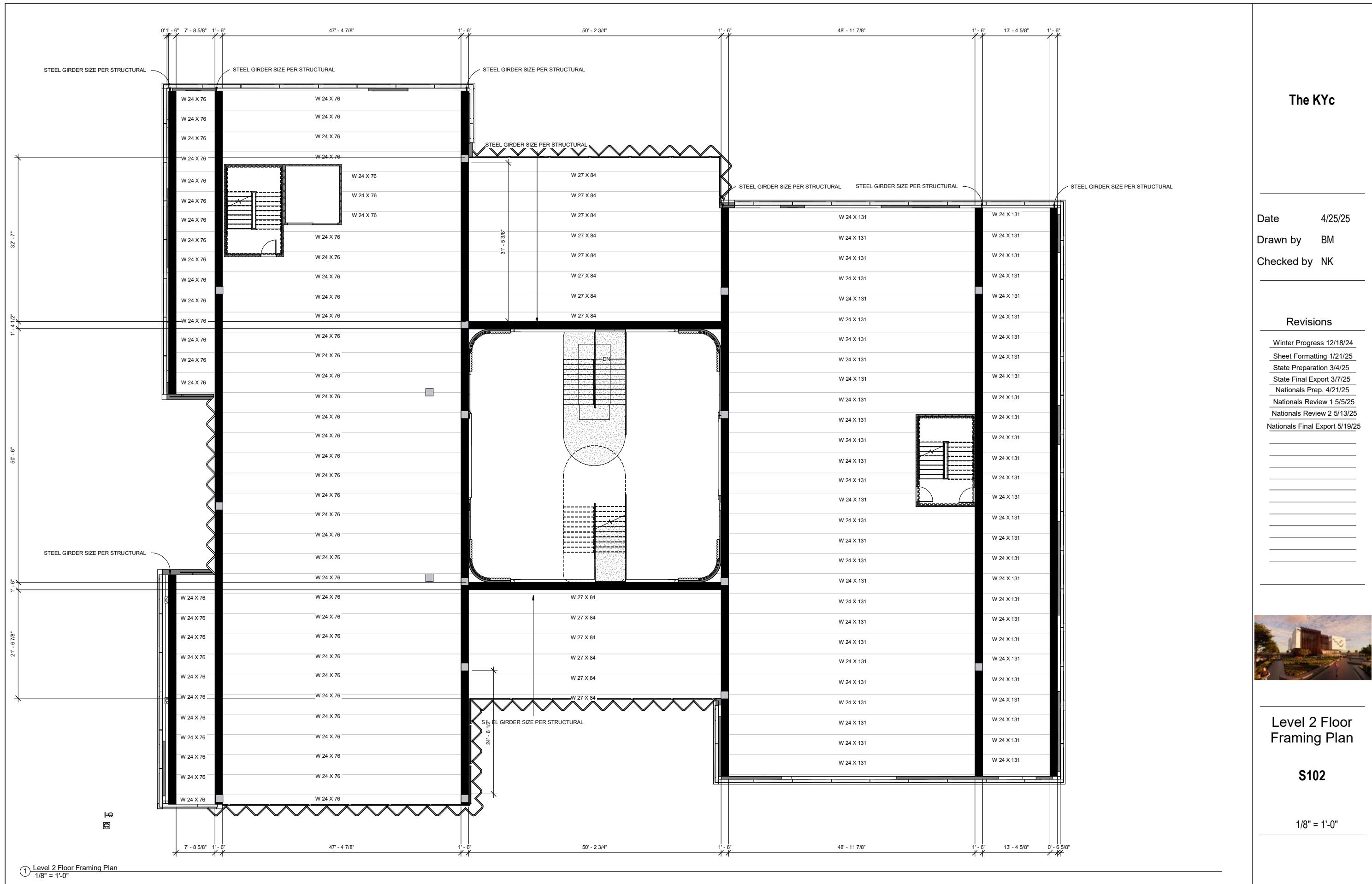
Foundation Plan

S101

1" = 10'-0"

1 Foundation Plan
1" = 10'-0"

Architectural foundation plan S101 showing a building footprint with various foundation types and dimensions. The plan includes labels for 2x2, 4x4, and 6x6 deep column footings, as well as 4x4 strip footings reinforced with steel rebar. It also shows 6x6x4 deep column footings spaced on gridlines. The plan includes dimensions for the building footprint and foundation details, with a scale of 1" = 10'-0". A photo of the building is also included.



The KYc

Date 4/25/25
Drawn by BM
Checked by NK

Revisions

Winter Progress 12/18/24
Sheet Formatting 1/21/25
State Preparation 3/4/25
State Final Export 3/7/25
Nationals Prep. 4/2/25
Nationals Review 1 5/5/25
Nationals Review 2 5/13/25
Nationals Final Export 5/19/25

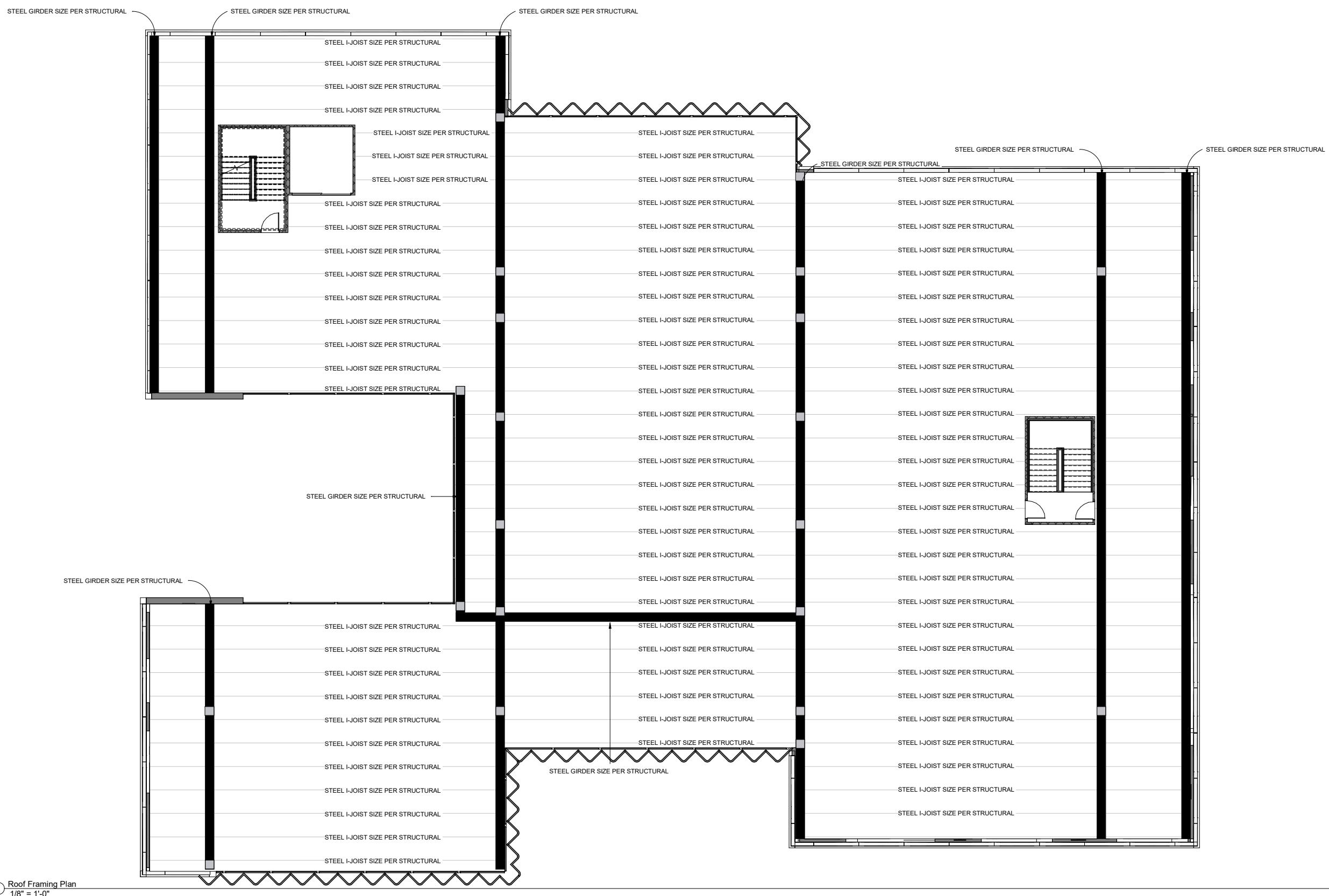


Level 3 Floor
Framing Plan

S103

1/8" = 1'-0"





The KYC

Date	4/25/25
Drawn by	BM
Checked by	NK

Revisions

- Winter Progress 12/18/24
- Sheet Formatting 1/21/25
- State Preparation 3/4/25
- State Final Export 3/7/25
- Nationals Prep. 4/21/25
- Nationals Review 1 5/5/25
- Nationals Review 2 5/13/25
- Nationals Final Export 5/19/25



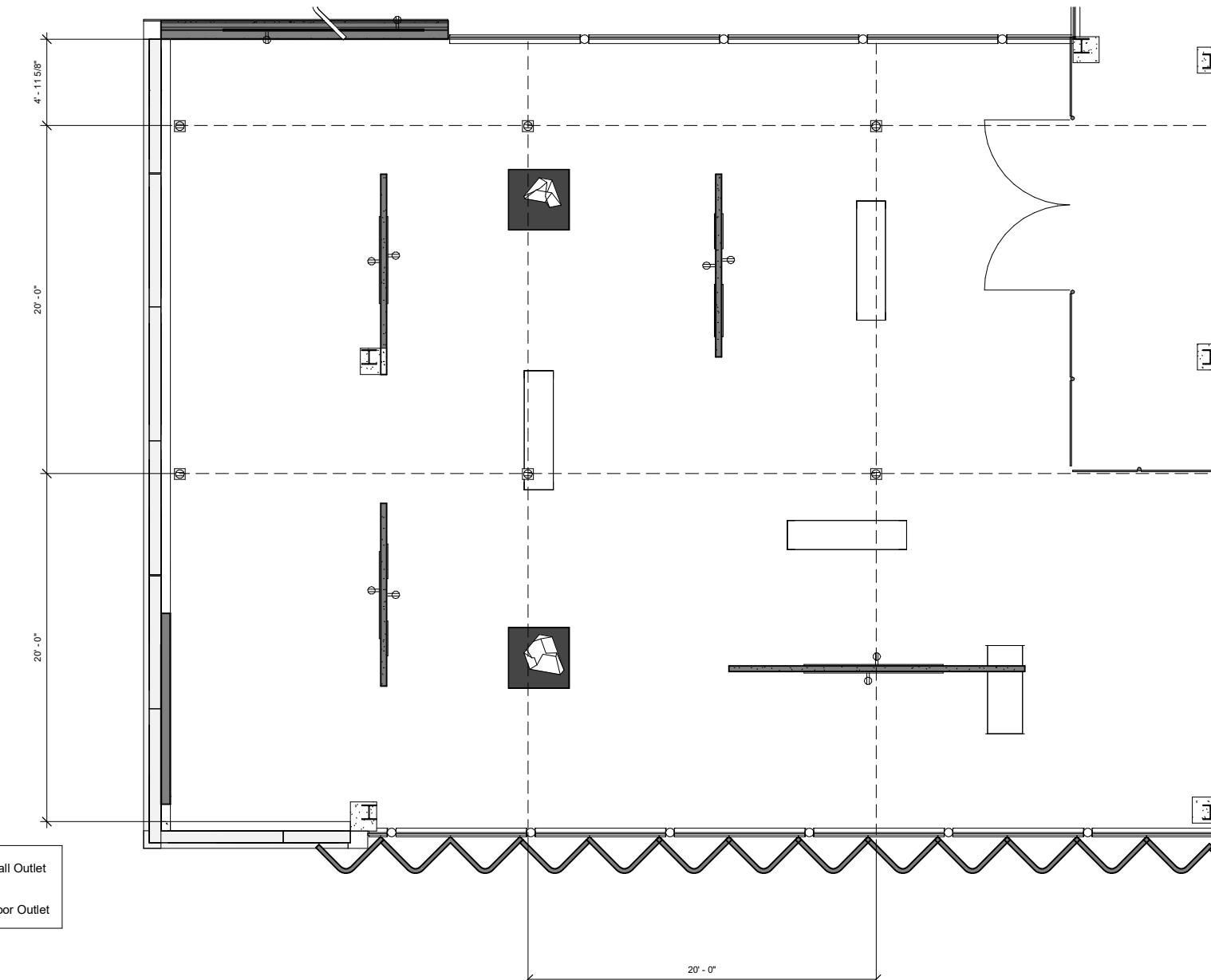
Roof Framing Plan

S104

1/8" = 1'-0"

1 Roof Framing Plan
1/8" = 1'-0"

The KYc



① Level 2 - Enlarged Electrical Gallery Plan
1/4" = 1'-0"

1/4" = 1'-0"



Electrical
Gallery Plan

S105

Date 4/25/25
Drawn by BM
Checked by NK

Revisions

Winter Progress 12/18/24
Sheet Formatting 1/21/25
State Preparation 3/4/25
State Final Export 3/7/25
Nationals Prep. 4/2/25
Nationals Review 1 5/5/25
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Nationals Final Export 5/19/25

The KYc

Date 4/25/25
Drawn by BM
Checked by NK

Revisions

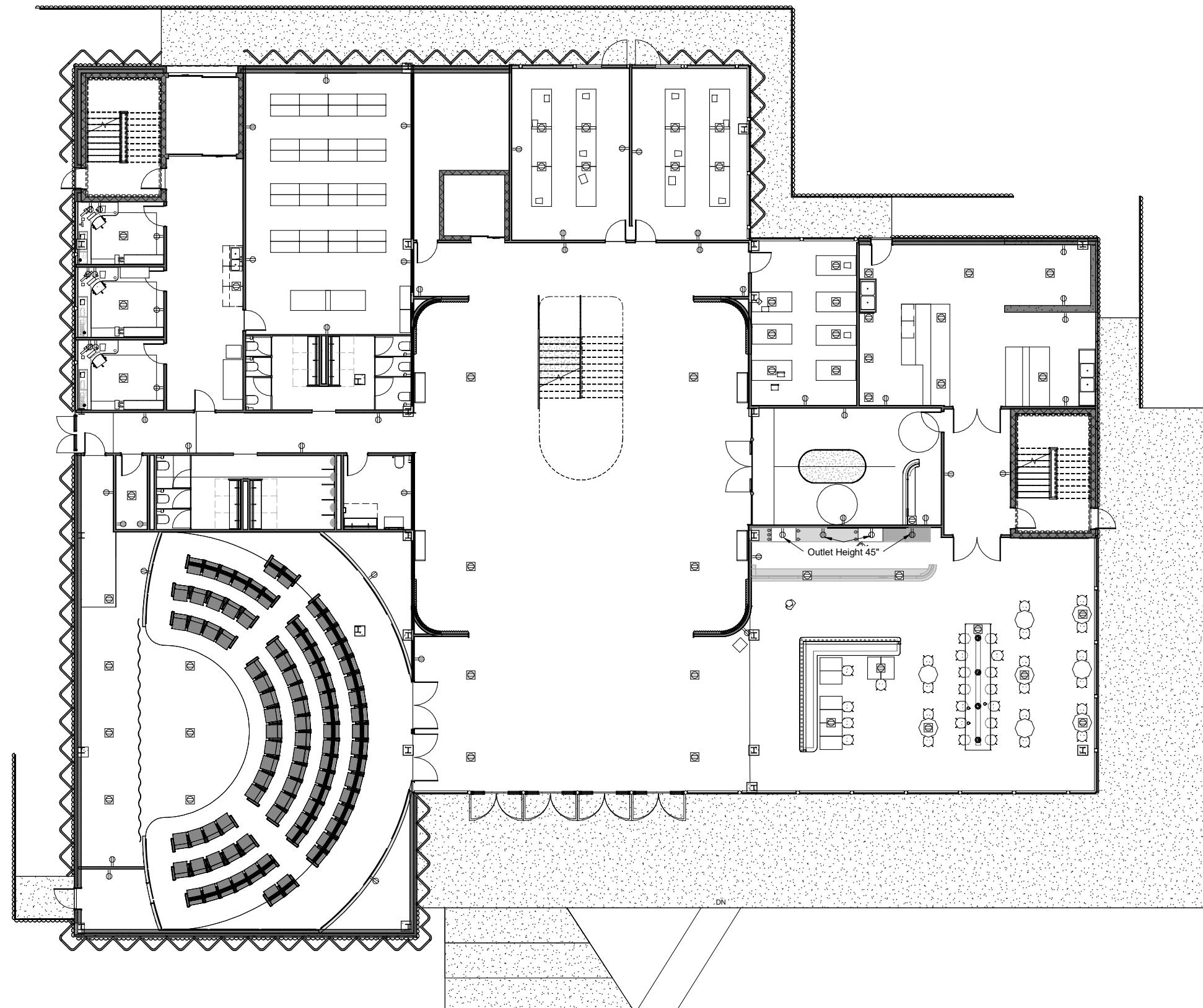
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State Preparation 3/4/25
State Final Export 3/7/25
Nationals Prep. 4/2/25
Nationals Review 1 5/5/25
Nationals Review 2 5/13/25
Nationals Final Export 5/19/25



Level 1
Electrical Plan

S106

1/8" = 1'-0"



The KYc

Date 4/25/25
Drawn by BM
Checked by NK

Revisions

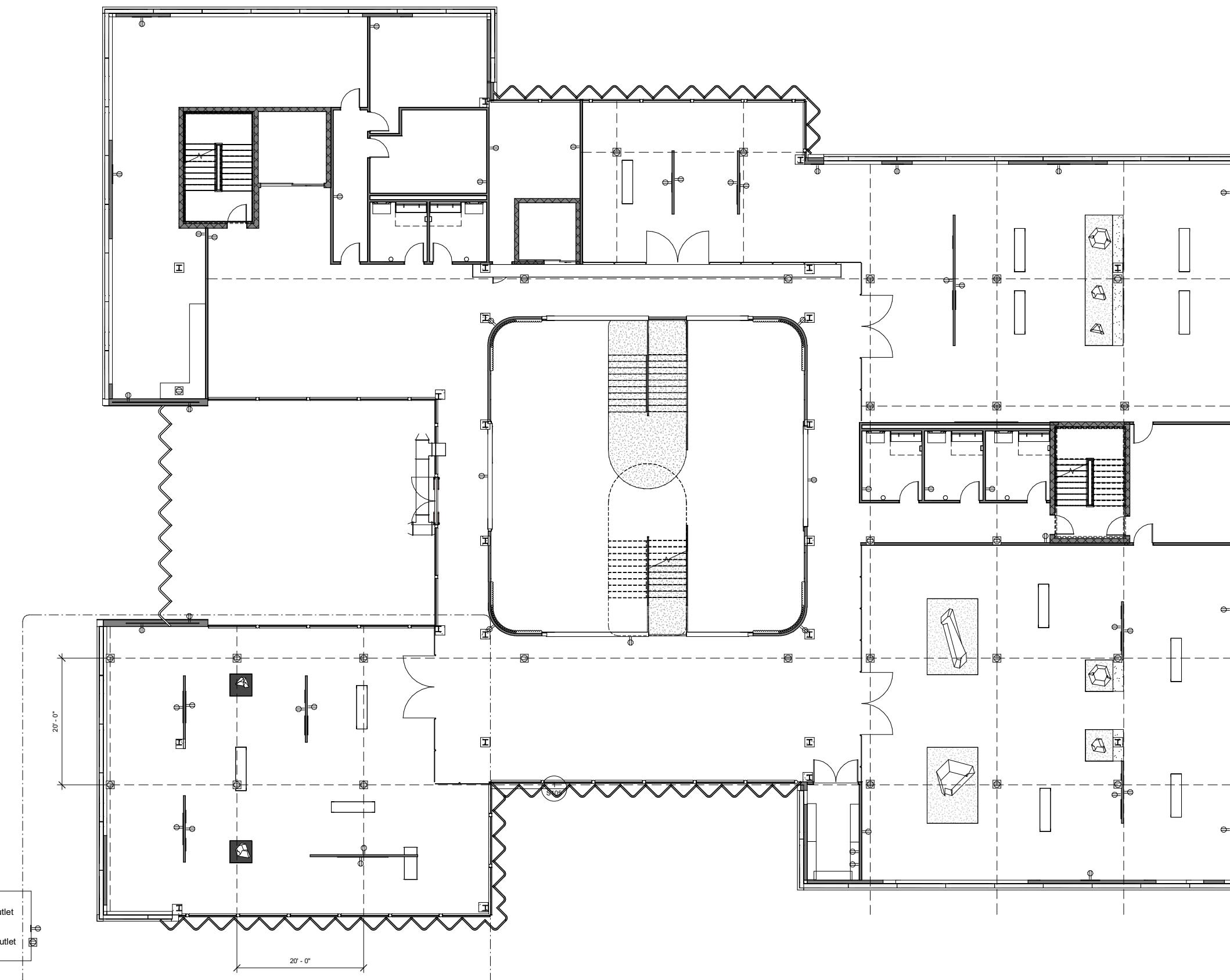
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State Final Export 3/7/25
Nationals Prep. 4/2/25
Nationals Review 1 5/5/25
Nationals Review 2 5/13/25
Nationals Final Export 5/19/25



Floor 2
Electrical Plan

S107

1/8" = 1'-0"



The KYc

Date 4/25/25

Drawn by BM

Checked by NK

Revisions

Winter Progress 12/18/24
Sheet Formatting 1/21/25
State Preparation 3/4/25
State Final Export 3/7/25
Nationals Prep. 4/2/25
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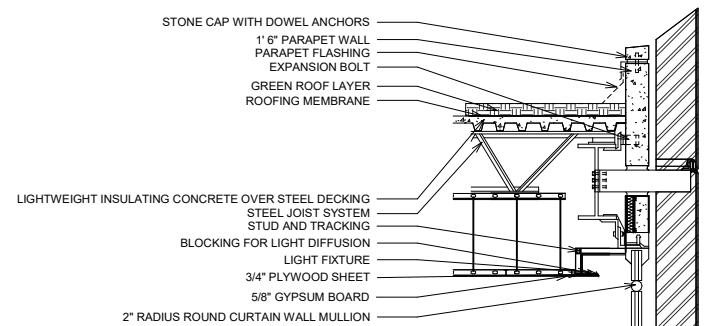


Floor 3
Electrical Plan

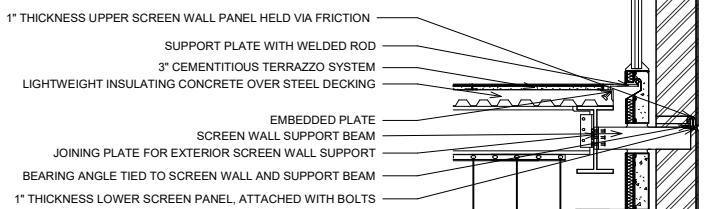
S108

1/8" = 1'-0"

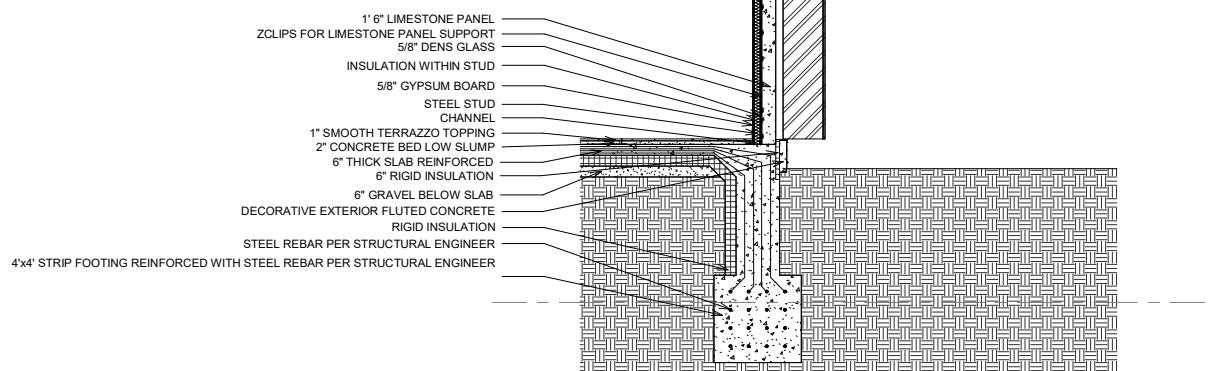
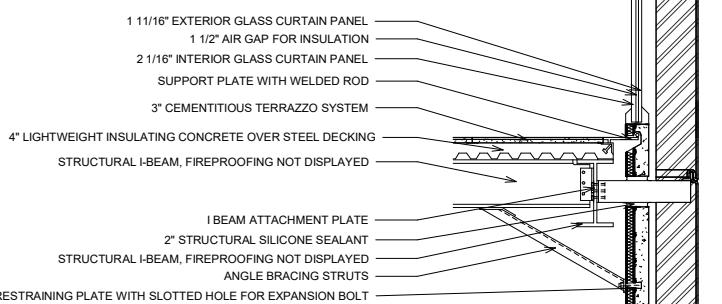
The KYc



Date 5/19/25
Drawn by NK
Checked by JK



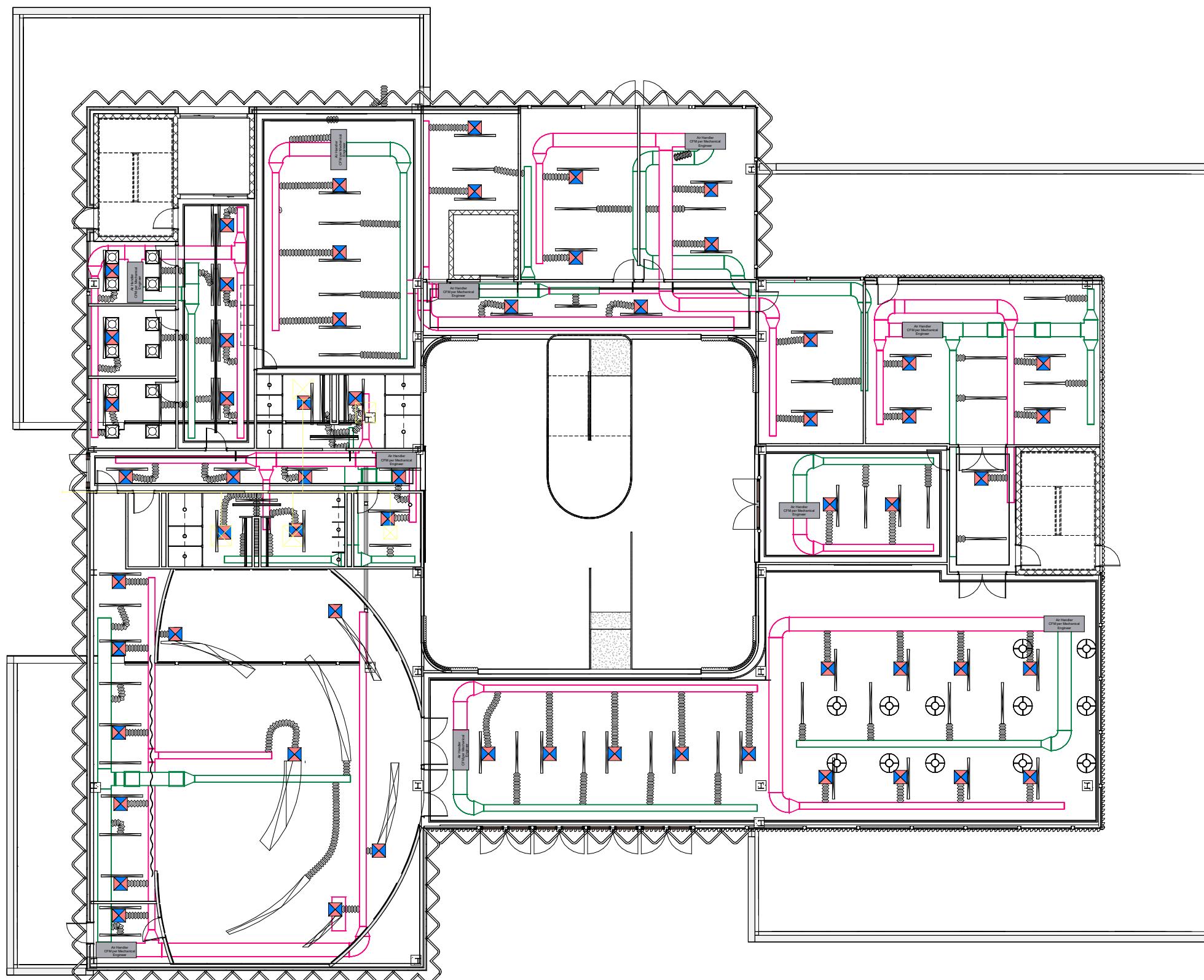
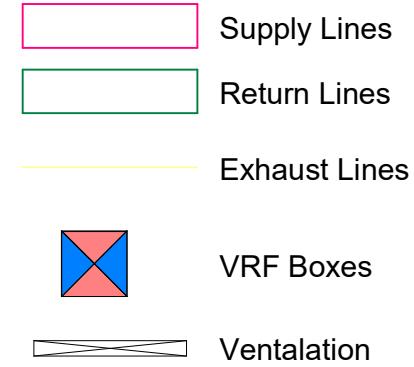
Revisions
Winter Progress 12/18/24
Sheet Formatting 1/21/25
State Preparation 3/4/25
State Final Export 3/7/25
Nationals Prep. 4/2/25
Nationals Review 1 5/5/25
Nationals Review 2 5/13/25
Nationals Final Export 5/19/25



Wall Section

S301

1/4" = 1'-0"



The KYc

Date 4/25/25
 Drawn by BM
 Checked by NK

Revisions

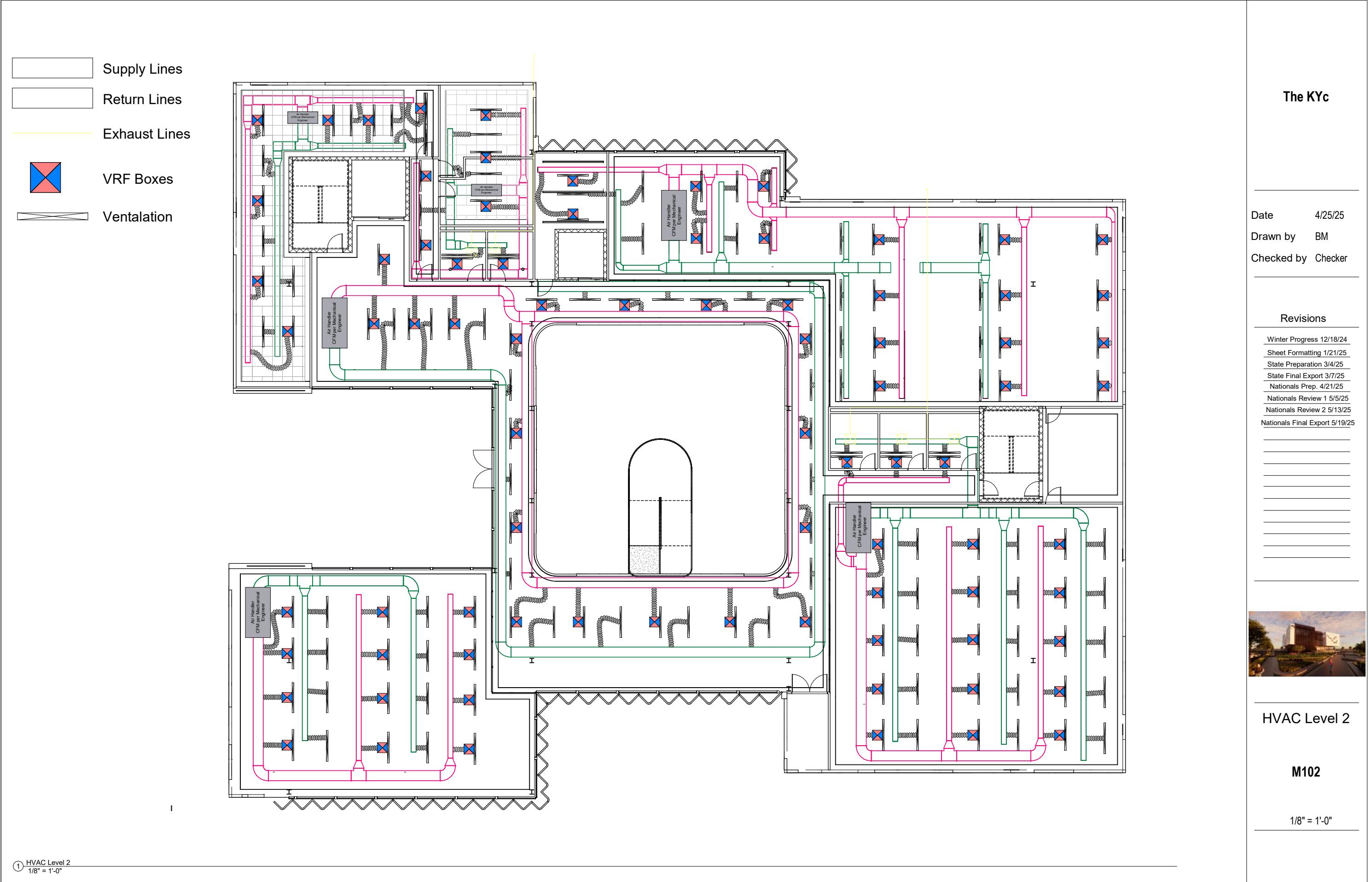
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 State Preparation 3/4/25
 State Final Export 3/7/25
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 Nationals Review 1 5/5/25
 Nationals Review 2 5/13/25
 Nationals Final Export 5/19/25

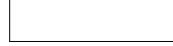
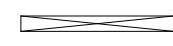


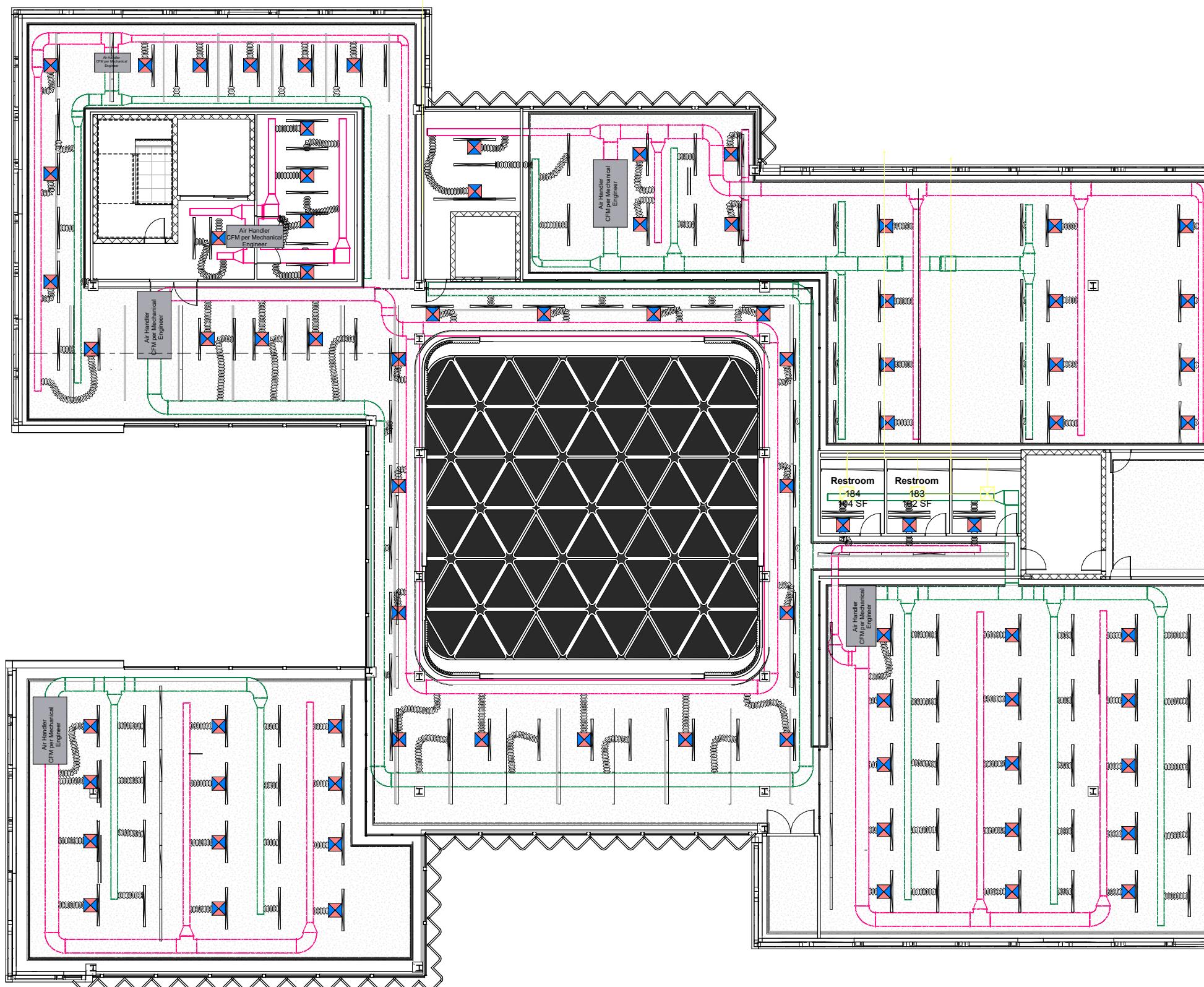
HVAC Level 1

M101

1/8" = 1'-0"



 Supply Lines
 Return Lines
 Exhaust Lines
 VRF Boxes
 Ventalation



The KYc

Date 4/25/25
Drawn by BM
Checked by NK

Revisions

[Winter Progress 12/18/24](#)
[Sheet Formatting 1/21/25](#)
[State Preparation 3/4/25](#)
[State Final Export 3/7/25](#)
[Nations Prep. 4/2/25](#)
[Nations Review 1 5/5/25](#)
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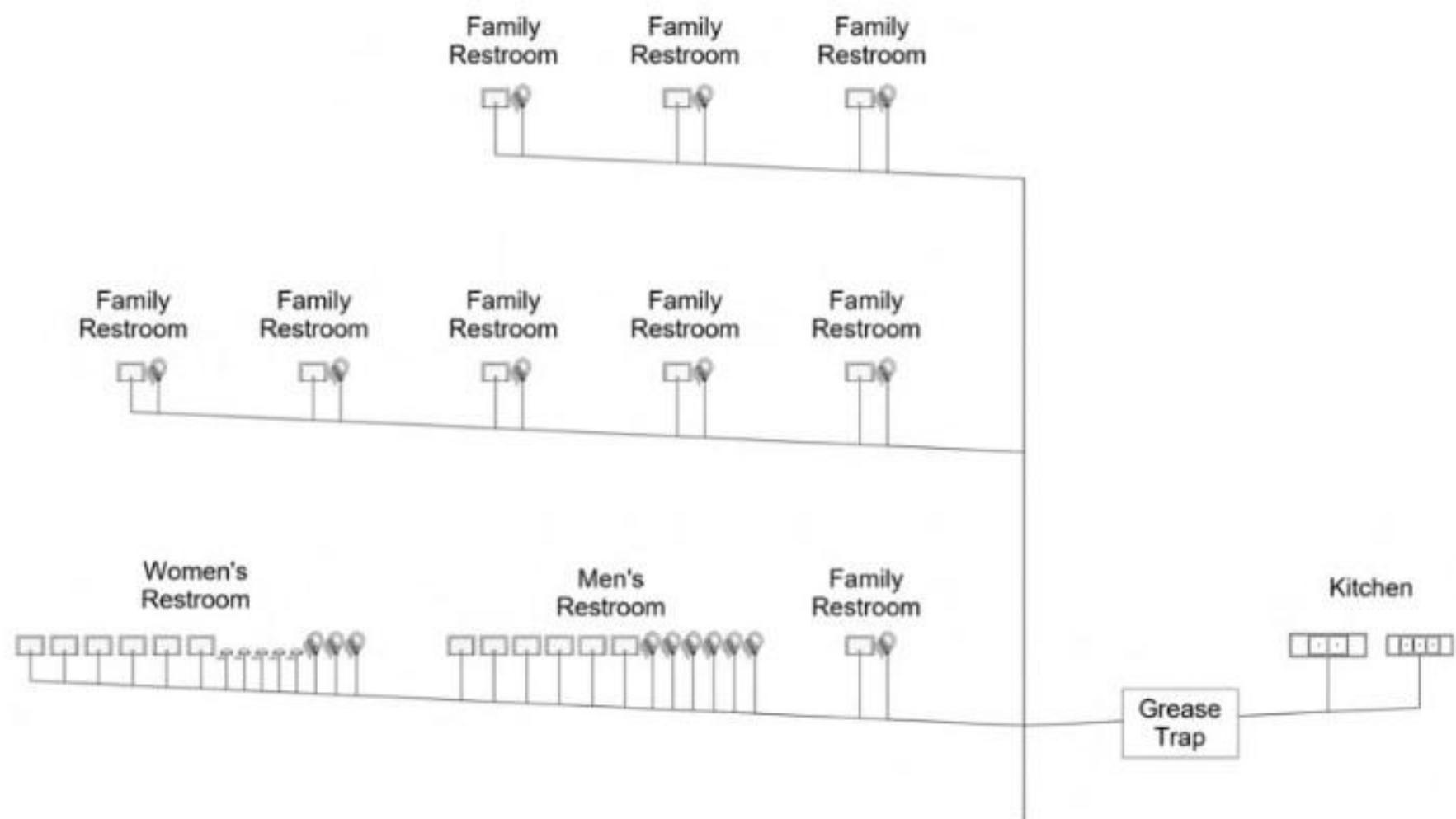


HVAC Level 3

M103

1/8" = 1'-0"

The KYc



Date 5/19/25
Drawn by BM
Checked by NK

Revisions

Winter Progress 12/18/24
Sheet Formatting 1/21/25
State Preparation 3/4/25
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Nationals Final Export 5/19/25



Plumbing
Riser Diagram

P601





A gallery exhibit, with natural light from the curtain wall.

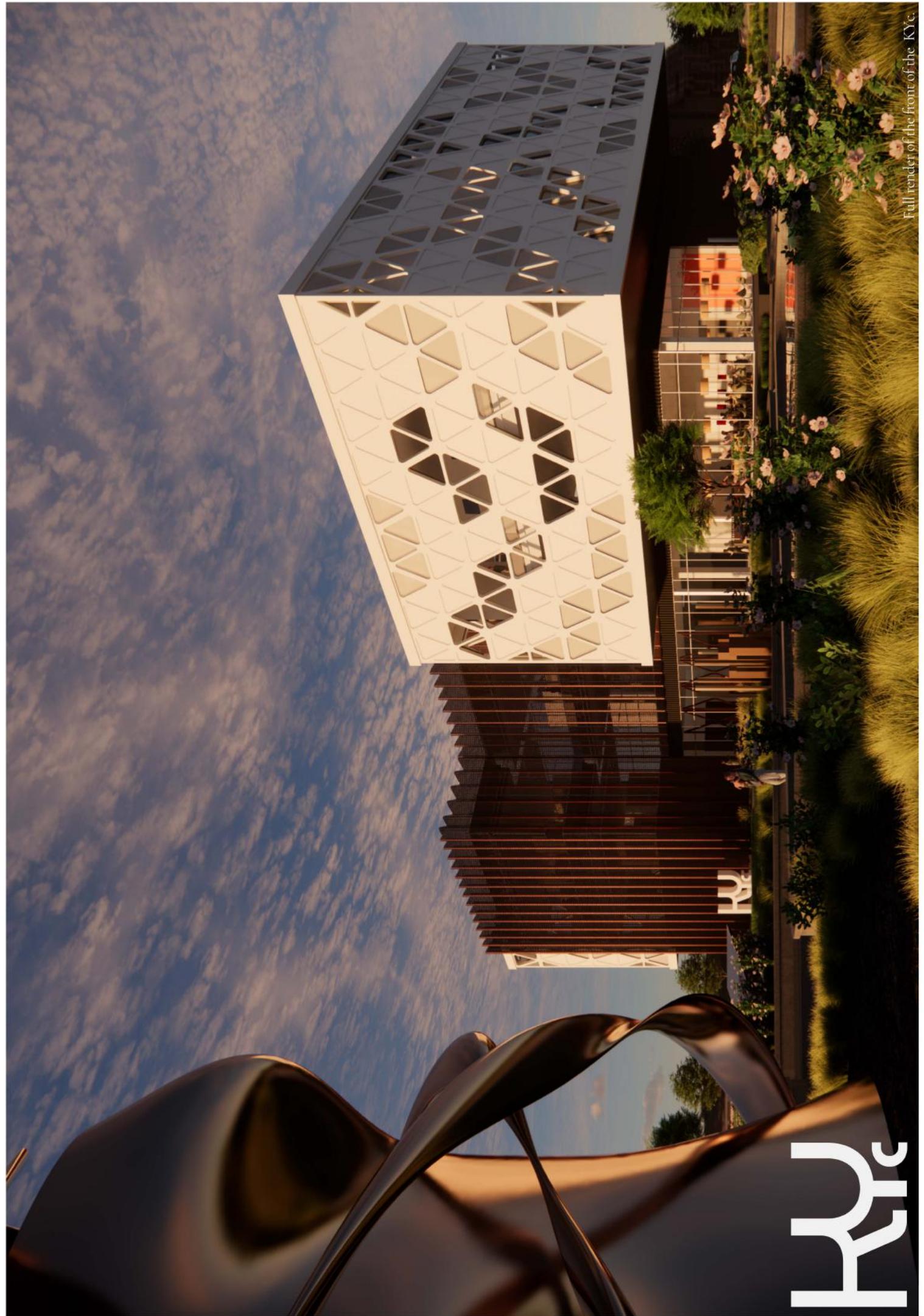


Central atrium space, view from third floor.



View from the cafe looking out into the sculpture garden.





Full render of the front of the KYc

KYc

The KYc 16

TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 8/14/24	Discussion	120 mins	JK, NK	//JK & NK worked with TSA advisor and mentor to create teams for TSA overall this year and began to get groups ready for architectural design. //JK & NK discussed the scoring and outcomes of last year's competition that we brought to Nationals.
2. 8/16/24	Organization	60 mins	JK	//JK worked to create the plan of work log, architecture templates, Google Drive folders, and other organization methods to maximize the productivity of this school year.
3. 8/20/24	Discussion	60 mins	JK, NK	//JK & NK discussed the architectural design prompt for this year. //The size of the project, materiality, and museum category were discussed.
4. 9/1/24	Research	60 mins	JC, TS	//JC & TS have reviewed several precedent images of different museums.
5. 9/5/24	Discussion	30 mins	JK, NK, TS	//JK, NK, TS, and mentor discussed types of museums and looked at precedents.
6. 9/9/24	Meeting	30 mins	NK, JC, TS, BM, PM	//Meeting with mentor

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 9/10/24	Research	30 mins	JC	//JC looked at precedents for the project.
2. 9/16/24	Research	60 mins	TS	//TS researched concepts and precedents.
3. 9/18/24	Discussion	30 mins	JC, JK, NK, TS	//JC, JK, NK, TS discussed a design process and possible purpose
4. 9/19/24	Research, Discussion	150 mins	TS, JC, PM	//TS researched concepts and program //JC, PM worked on building form.
5. 9/20/24	Discussion	45 minutes	NK, PM, TS, JC	//NK, PM, TS, and mentor discussed the timeline, concept, design process, and precedents //NK, TS discussed previously mentioned concepts with a focus on water, and service. //JC, PM PM updated JC on the meeting between NK, PM, and TS and discussed the form.
6. 9/21/24	Research, Discussion	45 minutes	JC, TS	//TS researched concepts and sketched //JC, TS discussed concepts

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TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 9/22/24	Research	30 mins	TS	//TS Researched and experimented with the program
2. 9/23/24	Discussion, Experimentation	70 mins	BM, JC, JK, NK, PM, TS	//TS experimented with the program //BM, JC, JK, NK, PM, TS met for discussion
3. 9/24/24	Discussion, Experimentation	120 mins	BM, JC, JK, NK, PM, TS	//BM, JC, JK, NK, PM, TS met with a mentor to split roles and discuss the timeline. //TS worked on the program.
4. 9/27/24	Research	60 mins	JC	//JC did president research
5. 9/28/24	Research, Experimentation, Sketching	210 minutes	JC	//JC did president research, sketching, and program experimentation.
6. 10/7/24	Working on programs, physical charting, and bubble diagrams	110 minutes	NK, TS	// NK on physical programming and charts // TS on Bubble programming with Revit

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 10/8/24	Research, planning, program	120 minutes	JK, TS	//TS on Bubble programming with Revit //JK researched different aspects of Kentucky culture and began planning out research for exhibits.
2. 10/9/24	Program	105	NK, BM	//NK with paper doll modeling and layouts //BM on program elements and adjacencies on the document
3. 10/10/24	Physical charting, programs	30 minutes	JC, NK, PM, TS	//JC, NK, PM, and TS worked on physical charting and programs.
4. 10/14/24	Revit Floor Plan Layouts, discussion	50 minutes	BM, JC, NK, PM, TS	//NK began laying out the decided floor plan on Revit so the team could see how the second floor could stack later on. //BM, JC, PM, and TS discussed ways to make the project reminiscent of Kentucky
5. 10/15/24	Revit Floor Plan Improvements	70 minutes	TS, NK	//TS discussed ideas with a mentor, improved the floorplan, and left notes on it //NK added thoughts on the spaces and worked more
6. 10/16/24	Theater Discussions	30 minutes	TS, NK, JC	//Talked through ideas involving making an amphitheater and the practicality behind it.

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TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 10/16/24	Patron flow through spaces and small changes	60 minutes	NK	//Went through and began to find how people moved through spaces, deliveries, patrons, and staff. //Began to see how the second floor sits on top of the first.
2. 10/17/24	Research into limestone as a material and sketching	45 minutes	NK	//Researched into limestone as a material, weathering, and natural appearance. //Conceptual sketching of an idea.
3. 10/17/24	Re-evaluating floor plan	45 minutes	NK	//After chatting with our mentor NK re-evaluated the floorplan to match the scale the model needs to be in.
4. 10/18/24	Revit Work Conceptual Sketching Precedent Research	90 Minutes	NK	//Cleaned up the floorplan. //Sketched a theater concept and exterior glass idea. //Looked into some existing museums and what makes them successful.
5. 10/21/24	Re-evaluating theater	70 Minutes	TS	//TS worked on layouts for the theater to create a successful space, created 2 ideas, and lay them out in Revit
6. 10/21/24	Floorplanning	30 Minutes	TS, JC	//Talked through the revised theater, and began to lay out the second and third floors

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TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 10/22/24	Second Floor Layouts	70 Minutes	TS, NK, JC	//Worked on laying out the second floor in Revit //NK & JC revised TS plan, creating a new improved layout to match the code
2. 10/24/24	Layout, discussion, exterior planning, Revit	300 min	BM, JC, JK, NK, TS	//BM, JC, JK, NK, and TS discussed the layout and exterior with a mentor and revised Revit accordingly.
3. 10/25/24	Theater Development	70 min	TS	//TS redeveloped the theater (again) to match the updated floor plan and create a successful patron usage plan
4. 10/28/24	Discussion, Revit, research	120 min	TS, JK	//JC and JK discussed the exterior with mentor //JC and TS worked on the exterior and pulled precedents //TS, JC, PM discussed exterior
5. 10/29/24	Research and development of the exterior facade	75 min	NK, TS, JC	//JC talked with an advisor about the triangular facade idea //NK & TS researched the exterior facade and talked through the idea with the mentor to refine it
6. 10/29/24	Structural development	60 min	NK	// NK went through and began to place the column grid for structural support, moved some interior walls to make the bearing make sense

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TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 10/30/24	Cafe Development Exterior Precedent Research Column Grid Adjustment, sketching	170 min	JC, NK, TS	//TS developed the kitchen within the cafe //JC researched triangular exterior ideas and sketched out ideas //NK adjusted the column grid on the Interior Model
2. 10/30/24	Wall Adjustments Ceilings	90 min	NK	//NK adjusted the walls to match interior requirement sizes //NK added ceilings that would match the size of the support structure within the building.
3. 10/31/24	Cafe Layouts Cafe Precedents	100 min	NK, TS	//NK adjusted more floor plan layouts and measurements //TS created a cafe mood board and began experimenting with materials
4. 11/1/24	Exterior facade preparations, Floor Plan adjustments, revit	120 min	JC, JK, NK	//JC planned the exterior facade and started creating it in Revit //NK & JK discussed various ideas and wrote changes to be made to the project
5. 11/4/24	Revit colorations	60 min	NK	//NK labeled out colors with the floorplan to demonstrate the function of the building
5. 11/6/24	Revit (exterior facade) Color plan key	100 min	JC, NK	//JC worked on the facade in Revit //NK made a color key for the floorplan

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TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 11/6/24	Exterior cleanup	80 min	NK	//NK cleaned up exterior walls, combining overlaps, moving interior walls, lowering heights, covering structural elements, adding a basic roof
2. 11/7/24	Materials Experimentation	90 min	TS, NK	//TS worked on main atrium materials, and removing walls //NK added a ceiling on the 3rd floor and adjusted elements from the roof
3. 11/9/24	Google Drive Organization	60 min	NK	//NK went through and organized the complete Google Drive in order to maintain consistency between shared documents
4. 11/12/24	Interior Materiality	110 min	TS, JC	//TS created more mood boards for the interior space, outlining more material uses and pulling precedents //TS added the fluted concrete to the main model and began to adjust interior walls //JC worked on the exterior facade.
5. 11/14/24	Cafe and Theatre Experimentation, Facade Work, Interior Doors	150 min	BM, JC, NK, TS	//JC made modifications on the exterior facade //NK adjusting doors to proper sizes and compliance //TS and BM experimented with ideas for theater and cafe.

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 11/17/24	Revit work Sketch work	240 min	JC, JK, NK	//JC worked on the facade //JK worked on-site design //NK worked on stair design
2. 11/18/24	Staircase Color Plan Key	120 min	NK, JK	//NK worked on stairs and the profiles in section views //Moved and added curves into the staircase JK
3. 11/19/24	Revit Work	180 min	BM	//BM worked on the facade of the first floor
4. 11/19/24	Staircase Site Design	150 min	NK, JK	//NK worked on the staircase and data cleanup //NK adjusted the stair exit and disconnected the bottom landing from the ground
5. 11/20/24	Facade Atrium Cleanup Atrium Skylight Planning Site Design Presentation	100 min	NK, JC, JK	//JC worked on the facade and making panels more clearly translucent //NK worked on the atrium //JK did more site design and layouts //Progress presentation in front of mentors

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TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 11/21/24	Skylight Framing Atrium Materials Fence Facade Site Design	150 min	NK, TS, PM, JK	//NK worked on the atrium skylight pattern //TS & NK worked on atrium materials //PM Layed out the fence-based facade
2. 11/22/24	Revit Work Site Design Facade Work	120 min	NK, JK, JC	//JC continued to edit the facade //JK planned out sculpture gardens and site //NK worked on the interior atrium
3. 11/22/24	Documentation, Facade work	140 min	JC, JK	//JK began work on documentation //JK pulled together sources, began a work cited page, and spoke to the mentor about the rubric. //JC worked on the facade
4. 11/25/24	Revit work (Facade), Site Work, Revit work(site)	120 min	JC, JK	//JC worked on the facade //JK sketched ideas for a sculpture garden incorporating plant beds and water beds //JK worked on roads on the site Revit
5. 11/26/24	Revit work, research	90 min	JC, NK	//JC worked on the facade. //NK researched the ceiling.
6. 11/26/24	Limestone Facade Ceiling Implementation	130 min	JK, NK	//NK Finished the main limestone facade //NK added the floors/ceilings to Revit //JK sketched site ideas

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 12/3/24	Theatre + Cafe Work	100 min	BM, TS	//BM added materials and furnishes to the cafe
2. 12/3/24	Revit work (Site, Facade, and Interior)	150 min	JC, JK, NK	//JK worked on the site in Revit and sketched out more ideas. //JC worked on materials and facade //NK rearranged some of the first-floor plan
3. 12/4/24	Revit Work, Discussion	150 min	JK, NK, BM, TS, PM	//JK worked on pathways in Revit, along with a sculptural garden //JK, NK, BM, TS and, PM discussed with the mentor regarding changes in the facade
4. 12/5/24	Revit Work(Site, exterior, interior)	350 min	JK, NK, JC, BM, TS	//TS worked on theatre design //BM, JC worked on exterior //JK finished sculpture garden retention walls and pathways //NK worked on interior and materiality
5. 12/6/24	Revit work(interior, site) Rendering trials	160 min	JK, NK, TS	//JK worked on the roadways, as well as began rendering the site in escape //TS and NK worked on the theatre and bathrooms
6. 12/9/24	Revit Work, Interior Material precedents, exterior work	180 min	JK, NK, JC	//JK worked on the site as well as the exterior Revit model //NK worked on interiors //JC did material research

Advisor signature _____

TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 12/11/24	Revit work, Material work, Renderings	220 min	JC, JK, NK	//JK worked on-site Renderings //JC worked on sculptures in Revit //NK worked on materials for the exterior
2. 12/14/24	Revit work, precedent research	180 min	BM, JC, JK, NK, TS	//BM worked on renderings //NK and TS worked on interior lighting //JK worked on-site layout //JC worked on the exterior facade
3. 12/17/24	Revit work, Material work	200 min	BM, JC, JK, NK, TS	//TS and BM worked on renderings //TS worked on lighting //JC worked on sculptures and the facade //JK worked on-site layout
4. 12/18/24	Revit work, 3d model, Renerings	300 min	BM, JC, NK, PM, TS, JK	//JC worked on exhibit design //PM and TS worked on 3d modeling //BM and NK worked on renderings //JK worked on boards and site
5. 12/19/24	Mid term presentation, mentor feedback, 3d printing	150 min	JC, NK, JK, TS	//JC, NK, JK, and TS all had a presentation with mentor feedback. //3d printing began.
6. 12/20/24	3d printing, Revit	300 min	JK, TS, PM	//TS, PM worked on 3d printing //JK worked on site

Advisor signature _____

TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 12/21/24	Revit, 3D Print Preparation.	150 min	JK,NK,TS	//JK worked on designing site and renderings //NK,TS worked on renderings and lighting.
2. 12/23/24	Revit work, Detail drawings.	120 min	TS,BM	//TS worked on detail work for theater. //BM worked on detail drawings.
3. 12/24/24	Material work, Exhibits.	180 min	TS,JC,JK	//TS worked on materiality in the theater. //JC worked on planning some of the exhibits. //JK worked on the site.
4. 12/27/24	Exterior Revit work.	90 min	NK	//NK refined the exterior of the museum, fixing some of the copper panels.
5. 12/29/24	3D Print preparation, Site work, Detail drawings.	200 min	TS,PM,JK,BM	//TS,PM Worked on preparing prints for the upcoming semester. //JK worked on site layout. //BM refined detail drawings.
6. 1/2/25	Exterior finishes, Interior finishes.	100 min	JC,NK	//JC Worked on perfecting some of the exterior details. //NK refined interior details.

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 1/4/25	3D Print preparation, site work.	140 min	TS,PM,JK	//TS Worked on cutting different parts of the 3d model to print for the upcoming semester. //PM Researched print settings for optimal quality. //JK Refined the site plan.
2. 1/7/25	Detail drawings, Exhibit design work.	100 min	BM,JC	//BM Worked in detail drawings. //JC worked on modeling exhibit spaces.
3. 1/8/25	3D slicing	60 min	TS	//TS sliced cut pieces of the model to prepare for printing.
4. 1/10/25	Documentation, Details	160 min	NK,JK	//NK Worked on preparing elevations. //JK polished some of the site areas along with some exterior and interior details.
5. 1/12/25	3D Print preparation, Model processing	120 min	PM,TS	//PM Prepared the facade walls to print and worked on settings. //TS Split the model into parts to slice and print.
6. 1/13/25	Detail drawings, Site work.	180 min	BM,JK	//BM Continued to work on detail drawings. //JK worked on site design and rendering.

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 1/15/25	Zoom meeting with Team and mentor	60 min	JC, NK, PM, TS, JK	//Had a call to set expectations for TSA this semester, discuss dates, deadlines, and delegate tasks.
2. 1/16/25	Detail Drawing, research, exhibit layout	120 min	JK, JC, BM	//JK and mentor did research and found presidents for detailed drawings. //JC worked on exhibit layout //BM detail drawings.
3. 1/17/25	Exhibit layout, Documentation, Detail Drawing	110 min	JC, JK, BM	//JC worked on exhibit layout //JK began documentation, working on the front page, and list of pages. Determining where different sections will go. //BM detail drawings.
4. 1/18/25	Exhibit layout, Detail Drawing, Site design	120 min	JC, BM, JK	//JC worked on exhibit layout //BM detail drawings. //JK worked on site design and renders
5. 1/24/25	Exhibit layout and design, Detail Drawing	90 min	JC, BM	//JC worked on exhibit layout and design //BM detail drawings.
6. 1/27/25	Exhibit Design Layout, Detail Drawing, Site work	120 min	JC, BM, JK	//JC worked on exhibit layout and design //BM detail drawings. //JK did detailing on the site and worked on the parking lot.

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 1/28/25	Exhibit design, Detail Drawing, Site Work	100 min	JC, BM, JK	//JC worked on exhibit design and layout //BM detail drawings. //JK worked on front drop off zone on the site
2. 1/30/25	Exhibit Design, Detail Drawing	80 min	JC, BM	//JC worked on exhibit design and layout //BM detail drawings.
3. 1/31/25	Kitchen Design, Classroom Design, Site Design	180 min	BM, JK	//BM Designed the kitchen and classroom layouts. //JK worked on site design
4. 2/3/25	Detail Drawings, 3d Printed Model	90 min	BM, TS	//BM worked on drawing storefront details. //TS worked on progressing the 3d print model.
5. 2/3/25	Interior design, Site design	180 min	JC, JK	//JC worked on exhibit design. //JC worked on sculptures, and JK implemented those onto the site, and also worked on green islands in parking lot
6. 2/4/25	Classroom Design, Elevations, and Dimensioning, Documentation, site	300 min	BM, NK, JK	//NK worked on final elevations. //BM Finished up classrooms and started dimensioning. //JK wrote the design interpretation for the Documentation

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 2/5/25	Documentation, Site, Details	150 min	JC,NK,JK	//NK worked on detail drawings in revit //JC worked on sculptures for the site //JK worked on site and documentation, along with construction systems
2. 2/10/25	Dimensioning, Sculptures, Documentation	260 min	BM, JC,JK	//BM dimensioned 2nd and 3rd floor plan layouts. //JC worked on sculptures //JK Began the design interpretation
3. 2/13/25	RCP, Documentation	200 min	BM,JK	//BM put lights in the RCP's for each floor. //JK typed design interpretation and construction methods and materials
4. 2/13/25	Elevations	120 min	JC	//JC put labeled materials on elevations
5. 2/14/25	RCP, Documentation	240 min	BM,JK	//BM dimensioned and labeled RCP's for each floor. //JK worked on page layout in documentation magazine
6. 2/17/25	Documentation, Model	200 min	JK,PM	//JK continued typing documentation, and laying out pages //PM Began to glue the bottom base together.

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1.2/18/25	Documentation, Model	300 min	JK,PM	//JK worked on updating documentation, and writing with a mentor. //PM Continued to glue the bottom floor with the second floor gluing together to place on top.
2.2/19/25	Documentation, Model	200 min	JK,PM	//JK worked on site requirements, along with public health statement //PM Second floor refinement with post processing.
6. 2/21/25	RCP, Model	300 min	BM,PM	//BM Added fire exits/strobes and ventilations to the RCP's for each floor. //PM Began work on the third floor to fit the facade wall.
4. 2/24/2025	RCP, JK, Renderings	320 min	BM,JK,JC	//BM Finished adding ventilations to RCP's. //JK layed out technical pages and sheets on documentation and finished typing public health statement //JC worked on renderings
5.2/25/25	Renderings, HVAC Plans	190 min	JC, BM,JK	//JC worked on interior renderings. //BM started drawing HVAC plans. //JK typed documentation
6. 2/26/25	HVAC Plans, Renderings, Documentation, Sections	400 min	BM, JC, JK, NK, PM	//BM continued work on HVAC plans. //JC worked on exterior renderings //JK worked on documentation formatting //NK worked on wall sections //PM Put together triangle facade onto first and second floor.

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 2/27/25	Documentation Citations, Model	250 min	JK,NK,TS,JC,BM,PM	//JK worked on technical pages(HVAC, Plumbing, Electrical) //JK worked on work cited //NK,TS,JC,BM on detail drawings //TS,PM on Model
2. 2/28/25	Documentation,Detail drawings	120 min	JK,NK,JC,TS,PM	//JK worked on documentation, and ran it by a mentor to check over writing so far //PM Refined and glued on copper panels.
3. 3/3/25	Documentation, Details, Model	200 min	JK,TS,PM	//JK worked on citations and specific pieces of documentation //PM Worked on roof portion removability.
4. 3/4/25	Documentation, Details,Model preparation	220 min	JK,NK,JC,TS,PM	//JK worked on finalizing documentation. //NK,JC refined detail drawings //TS,PM prepared model for photography
5. 3/5/25	Documentation, Photography, Detail drawings	480 min	JK,TS,BM,PM	//JK,TS,PM photographed model //JK workers on documentation
6. 3/6/25	Documentation Model, Mentor meeting, finalize project	900 min	JK,NK,JC,TS,PM	//JK,TS,NK,JC finalized sheets and documentation, and detailed drawings. //PM worked on editing photos and model

Advisor signature _____

TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 3/7/25	Documentation, Citations, Documents, Renderings, Detail work and Drawings,	300 min	JK,NK,TS,PM,BM	//JK finalized documentation //PM edited photographs of the model //NK and BM worked on finalizing sheets //TS replaced a couple renderings and made several more
2. 3/7/25	Final Revision with Mentor and turn in	120 min	JK,NK	//JK and NK gave the project a final review with the mentor //Documentation turned in
3. 3/10/25	Model Site board prep	60 min	NK	//NK trimmed boards to fit the base of the model and delivered them
4. 3/11/25	Model fabrication Model assembling	90 min	TS, NK, PM	//Began printing interior detail elements //NK modeled mullions for the exterior
5. 3/12/25	Model assembly	110 min	TS, NK	//Finalized floor details and glued in mullions //Modeled people to place within the project
6. 3/14/25	Site preparation Site layout	75 min	JK, PM	//Began printing roads/sidewalks //Planned and decided upon used model plants

Advisor signature _____

TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 3/17/25	//Mini-model slicing //Atrium decor //Furniture slicing	140 min	TS, NK, PM	//Sliced the main site and labels for the mini model //Printed and began attaching orbs to atrium //TS sliced the furniture for each floor
2. 3/18/25	//Mini model coloration //Atrium decor //Script drafting	90 min	PM, NK, JK	//PM added colors to the mini model slicing and printed //NK continued adding the orbs and orienting them //JK and NK drafted the presentation
3. 3/19/25	//Car painting //Green roof decor //Exhibit furnishing	80 min	NK, JK, TS	//JK added foliage to the green roof, and glued //NK painted cars to put on the site //TS added the exhibit furniture
4. 3/19/25	//Grass addition	45 min	PM	//Glued down the grass around the exterior to add detail
5. 3/20/25	//Interior furnishing //Adding people //Grass //Attaching roads	170 min	NK, PM, TS	//NK Added in the lower interior furnishings //TS furnished exhibits //PM worked on gluing grass and attaching roads
6. 3/21/25	//Finishing touches //Model cleaning	95 min	TS, PM, NK, BM	//TS Touched up exhibit details //PM and JK finished gluing the site and attaching bushes //NK finalized mullions and roof adjustments

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 3/23/25	//Presentation preparation	180 min	NK, JK, JC, TS	//JK assembled the slide deck //NK and JK practiced the presentation //TS and JK gave commentary and feedback
2. 3/24/25	//Model turn-in //Presentation practice	300 min	NK, JK, TS, BM, PM, JC	//NK and JK practiced the presentation //TS and BM gave the presentation feedback //Full group turned in the state model
3. 3/24/25	//State presentation	20 min	NK, JK	//NK and JK did the state presentation
4. 3/26/25	//Awards ceremony	120 min	JK, NK, TS, BM, PM, JC	//The group became KY TSA state champions
5. 3/28/25	//Discussion //Interior detailing	45 min	PM, NK, TS	//Began discussions of changes for Nationals //TS added interior detail to the gift shop
6. 3/31/25	//Model slicing, Site	180 min	TS, JK	//TS Worked on combining files for the nationals model slicing //JK began working on planting the front entrance area

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 4/1/25	//Model slicing and assembling //Data management	90 min	TS, NK	//Began to touch up interior and exterior spaces to make them better to print //NK edited missing pieces based on state feedback
2. 4/2/25	//Slicing //Egress additions //Presentation practice	110 min	BM, TS, JK, NK	//BM and TS worked on the model and the necessary slices //NK added more proper egress in the theater //NK and JK practiced the presentation twice, once with local architects for commentary
3. 4/2/25	//Data management //Site work	200 min	NK, JK	//Worked on organizing missing pieces on the Google Drive //JK began working on the green roof
4. 4/3/25	//Model slicing //Documentation	180 min	TS, JK	//Sliced more of the model to prepare for printing //JK got feedback from a mentor, and began to implement into the documentation portfolio
5. 4/4/25	//Presentation practice //Documentation updates	70 min	NK, JK	//Did a practice presentation for mentors and gained commentary //Changed the model photos in the documentation
6. 4/14/25	//Model slicing	70 min	TS	//TS continued to adjust the revit model to export as an STL to print

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 4/15/25	//Detail drawings //Parking lot(site plan)	120 min	JK, NK	//NK worked on exterior screen wall detail drawings //JK began to re-do both parking lots, and space out parking space accordingly
2. 4/16/25	//Model slicing //Duct research //Site	100 min	TS, BM, JK	// TS sliced and prepared the 4 main floor pieces for printing // BM researched things to start on ducts throughout the project. //JK worked on the new parking lot design
3. 4/17/25	//Site design //HVAC research //Documentation editing	180 min	JC, JK, NK	//JK worked on the site design and site plan //JC researched HVAC systems //NK marked up state documentation
4. 4/21/25	//Site design //HVAC design	90 min	JC, JK, NK	//JC and NK worked on ducts in revit //Jackson worked on the roof design for the site
5. 4/22/25	//Electrical Plans //HVAC	120 min	BM, NK	//BM started and finished electrical plans in revit. //NK worked on ducts
6. 4/24/25	//Stair Plans //Ductwork //Documentation //Site work	180 min	BM, NK, JK	//BM worked on stair plans in revit. //NK worked on HVAC plans //JK worked on the "design interpretation" suggestions from a mentor, and also the parking lot

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 4/25/25	//Stair Plans and Site Plan	200 min	BM, JK	//BM did interior stair plans for the atrium space. //JK began dimensioning the new site plan, and worked on the parking lot plantings
2. 4/28/25	//HVAC	60 min	NK, TS	//Finished HVAC plans //Worked on 3D prints
3. 4/29/25	//Model assembly //Floorplan cleanup //Site design //Documentation	200 min	NK, JC, TS, JK	//TS worked on model assembly //JC worked on floorplan cleanup and edits //JK worked on the planting bed behind the building, parking lot //JK worked on documentation
4. 4/30/25	//Updating Sheets //Interior Elevations	180 min	BM	//BM updated and revised sheets in the documentation and started doing interior elevations.
5. 5/1/25	//Site	200 min	JK	//JK worked on the green roof patterning
6. 5/1/25	//Updating Sheets //Floorplan cleanup	60 min	JC, NK	JC and NK worked on updating floor plans, along with changing some slight materials.

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 5/2/25	3d printing, documentation, floor plans	280 min	NK, JK, TS	//TS worked on slicing the new model //JK and NK worked on revit models, NK worked on floor plans, and JK worked on the Site
2. 5/6/25	Site design	100 min	JK	//JK planted the roof and expanded on the patterns. //JK did more research on native Kentucky plants
3. 5/7/25	Sheets, tweaked HVAC plans,	120 min	NK, JC, BM	//Work was done on the floor plans, but also revising sheets
4. 5/9/25	3d prints, interior elevations	90 min	PM, BM, TS	//TS and PM continued changing the 3D prints //BM made interior elevations
5. 5/12/25	Interior elevations, practice presentations	70 min	BM, JK, NK	//BM continued interior elevations //JK and NK practiced the presentation
6. 5/13/25	Practice presentations, interior elevations	90 min	BM, TS, NK, JK	//BM finalized interior elevations //TS critiqued NK and JK presentations

Advisor signature _____



TECHNOLOGY STUDENT ASSOCIATION WORK LOG

Date	Task	Time involved	Team member responsible (student initials)	Comments
1. 5/14/25	Digital presentation setup, presentation practice	120 min	JK, TS, JC, NK	//JC worked on the digital presentation element //TS critiqued NK and JK practice presentations
2. 5/15/25	Presentation practice	150 min	JK, NK, TS, BM, JC	//Built and presented the project for the gala at school
3. 5/16/25	Translucency adjustments	60 min	NK, JC	//NK and JC fixed the translucent panels for the triangular panels
4. 5/19/25	Sheet exporting, re-renders, nationals submission	180 min	NK, JK, TS	//NK exported sheets for the documentation //TS re-rendered for the final export //JK adjusted the documentation for submission
5. 5/21/25	Final review and submission	180 min	NK, JK, TS	//All worked together to put the finishing touches on the documentation
6.				

Advisor signature _____



HIGH SCHOOL ARCHITECTURAL DESIGN MENTORSHIP VERIFICATION

I certify that I have served as a mentor to the student(s) named below.

Jackson Kennedy, Brogan McBride, Josiah Cutts, Pol Marti, Nate Knowles, Ty Sampson,
Student(s) involved (please print)

Jackson Kennedy, Brogan McBride, Josiah Cutts, Pol Marti, Ty Sampson, Nate Knowles
Signature of student(s)

3-7-25

Date

Taylor Siccac
TSA chapter advisor (printed name and signature)

3-7-25

Date

Adam C. Gillett, AIA

Name of mentor (please print)

Architect

Occupation (please print)

integrity Architecture, PLLC

Employer (please print)

Adam C. Gillett

Signature of mentor

03/06/2025

Date

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6.06-Structural Steel Roof Framing

7.09-Vegetated Roofing

7.13-Flat Roof Assemblies

7.19-Roof Flashing

7.26-Curtain Walls

7.27-Precast Concrete Panels

7.30-Stone Veneer

7.31-Metal Cladding

7.42-Insulating Materials

7.43-Insulating Roofs and Floors

8.06-8.07-Hollow Metal Doorframes

8.14-Glass Entrance Doors

8.15-Storefronts

8.24-Metal Windows

8.25-Metal Windows

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Daylight photograph of the KYc from an aerial perspective.

MODEL PHOTOGRAPHS EXTERIOR

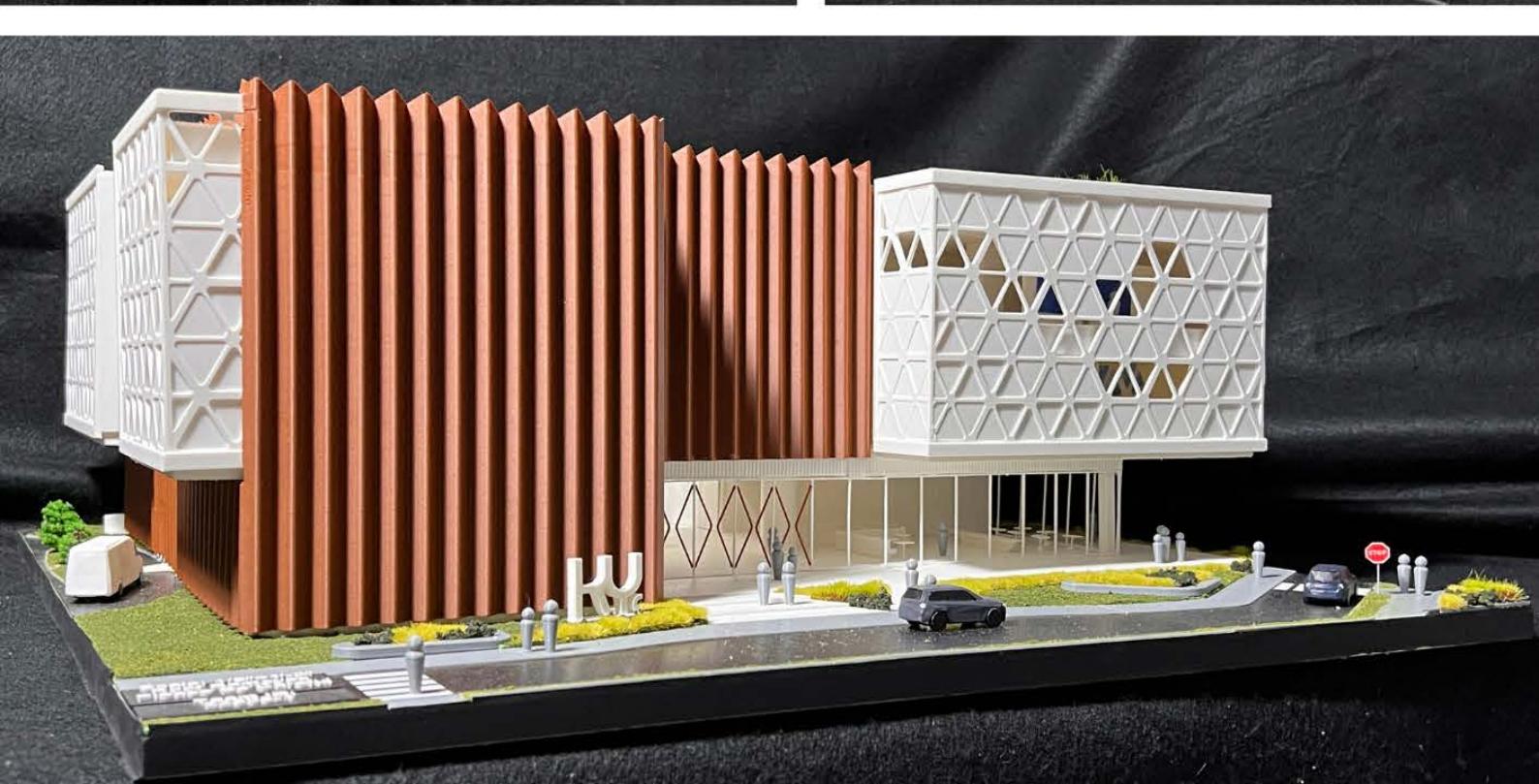
All model photographs are lit with studio lighting. No electrical/lighting components are used in the model.



Daylight photograph of the Southeast corner of the KYc.



Southwest corner of the KYc.



Daytime photograph of the front of the KYc, showing the main entrance.

MODEL PHOTOGRAPHS EXTERIOR (NIGHT TIME)

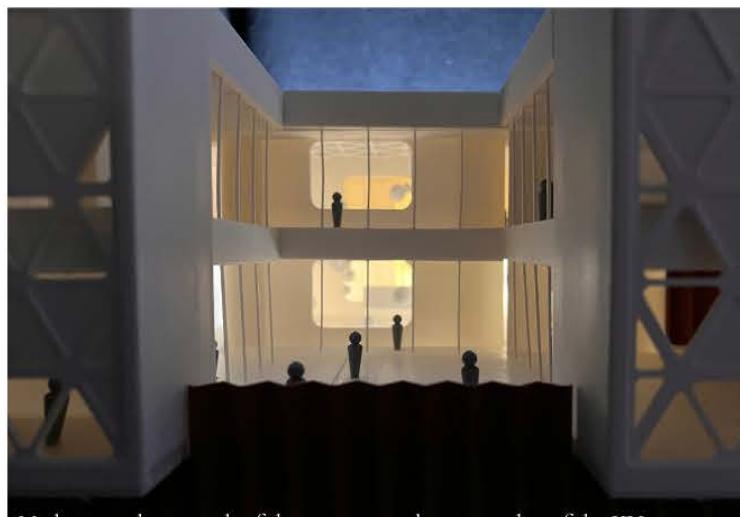
All model photographs are lit with studio lighting. No electrical/lighting components are used in the model.



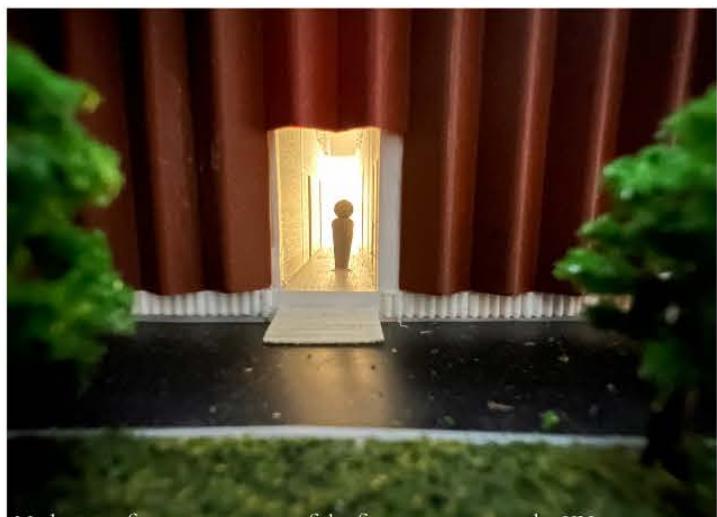
Nighttime photograph of the south-easterncorner of the KYc.



Nighttime photograph of the full front of the KYc, showing how the curtain wall system shines.



Nighttime photograph of the western sculpture garden of the KYc.

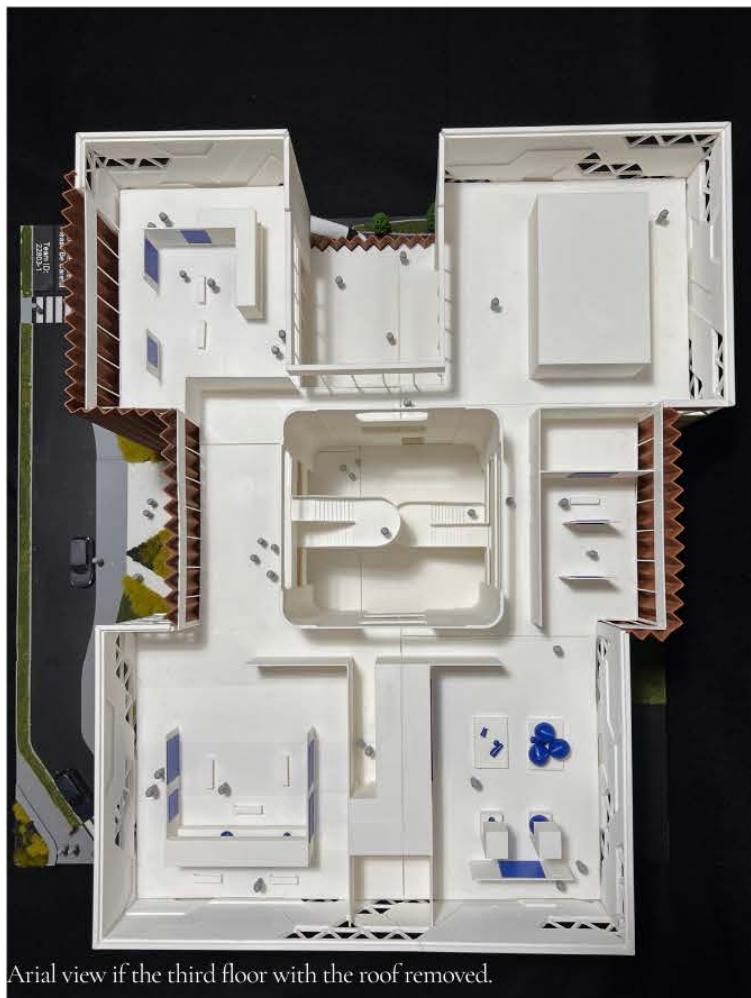


Nighttime, first person view, of the front entrance to the KYc.

MODEL PHOTOGRAPHS

INTERIOR

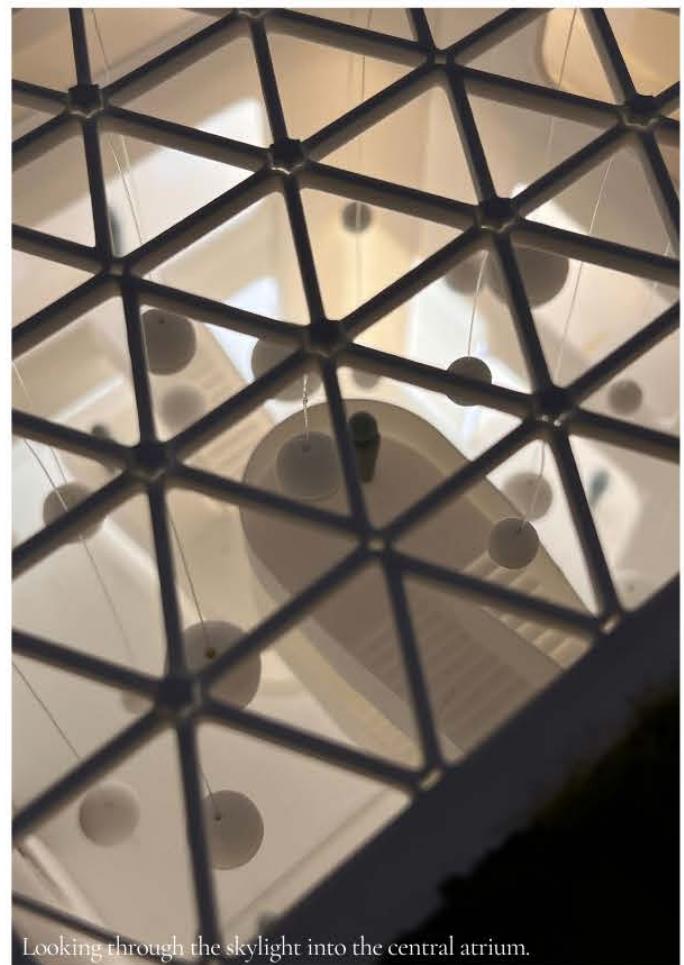
All model photographs are lit with studio lighting. No electrical/lighting components are used in the model.



Arial view of the third floor with the roof removed.



View of the northeast exhibit



View of the central atrium

STUDENT COPYRIGHT CHECKLIST

(for students to complete and advisors to verify)

STUDENT: Answer question 1 below.

1) Does your solution to the competitive event integrate any type of music and/or sound? YES NO

If NO, go to question 2.

If YES, is the music and/or sound copyrighted? YES NO

If YES, move to question 1A. If NO, move to question 1B.

1A) Have you asked for author permission to use the music and/or sound in your solution and included that permission (letter/form) in your documentation? If YES, move to question 2. If NO, ask for permission and if permission is granted, include the permission in your documentation.

1B) Is the music/sound royalty free, or did you create the music/sound yourself? If YES, cite the royalty free music/sound OR your original music/sound properly in your documentation.

CHAPTER ADVISOR: Sign below regarding your student's answer(s) to the use of music/sound in his/her competitive event solution. Even if your student answers "NO" to question 1, please sign below noting that you have evaluated the competitive event solution and the student answered the question(s) accurately.

I, Tyler Strec (chapter advisor), have checked my student's solution and confirm that any use of music/sound is done so with proper permission and is cited correctly in the student's documentation and/or the solution has been found to have no music/sound included.

STUDENT: Answer question 2 below.

2) Does your solution to the competitive event integrate any graphics/videos? YES NO

If NO, go to question 3.

If YES, is(are) the graphics/videos copyrighted, registered and/or trademarked? YES NO

If YES, move to question 2A. If NO, move to question 2B.

2A) Have you asked for author permission to use the graphics and/or videos in your solution and included a permission (letter/form) in your documentation for graphic/video used? If YES, move to question 3. If NO, ask for permission and if permission is granted, include the permission in your documentation.

2B) Is(are) the graphics/videos royalty free, or did you create your own graphic? If YES, cite the royalty free graphics/videos OR your own original graphics/videos properly in your documentation.

CHAPTER ADVISOR: Sign below regarding your student's answer(s) to the use of graphics/videos in his/her competitive event solution. Even if your student answers "NO" to question 2, please sign below noting that you have evaluated the competitive event solution and the student answered the question(s) accurately.

I, Tyler Strec (chapter advisor), have checked my student's solution and confirm that the use of graphics/videos with proper permission and is cited correctly in the student's documentation and/or the solution has been found to have no graphics/videos included.

STUDENT: Answer question 3 below.

3) Does your solution to the competitive event use another's thoughts or research? YES NO

If NO, this is the end of the checklist.

If YES, have you properly cited other's thoughts or research in your documentation? YES NO

CHAPTER ADVISOR: Sign below regarding your student's answer(s) to having integrated any thoughts/research of others in his/her competitive event solution. Even if your student answers "NO" to question 3, please sign below noting that you have evaluated the competitive event solution and the student answered the question(s) accurately.

I, Tyler Strec (chapter advisor), have checked my student's solution and confirm that the use of the thoughts/research of others is done so with proper permission and is cited correctly in the student's documentation and/or the solution has been found to have all original thought with no use of other's thoughts/research.

Student Name: Jackson Kennedy, Bragan McBride, Josiah Cutts, Pol Marti, Ty Sampson, Nate Knowles

Chapter Advisor Signature: 