

LINCOLN HIGH SCHOOL MODERNIZATION  
DESIGN ADVICE REQUEST  
May 16, 2018



## AGENDA

LINCOLN HIGH SCHOOL MODERNIZATION

### BUILDING DESIGN

PROGRAM

ARCHITECTURAL SITE PLAN

BUILDING PLANS

BUILDING SECTIONS

PERSPECTIVES

ILLUSTRATED ELEVATIONS

MATERIALS

ILLUSTRATIVE STREET ELEVATIONS

GROUND LEVEL GLAZING

WALL SECTIONS

DETAILS

ADJUSTMENTS AND MODIFICATIONS

**Lincoln High School Program**

Instructional Spaces

Fine & Performing Arts

500 Seat Theater

Athletics (2 gyms, weights, movement, lockers)

Admin & Counseling

Media Center

Commons & Served

Special Education

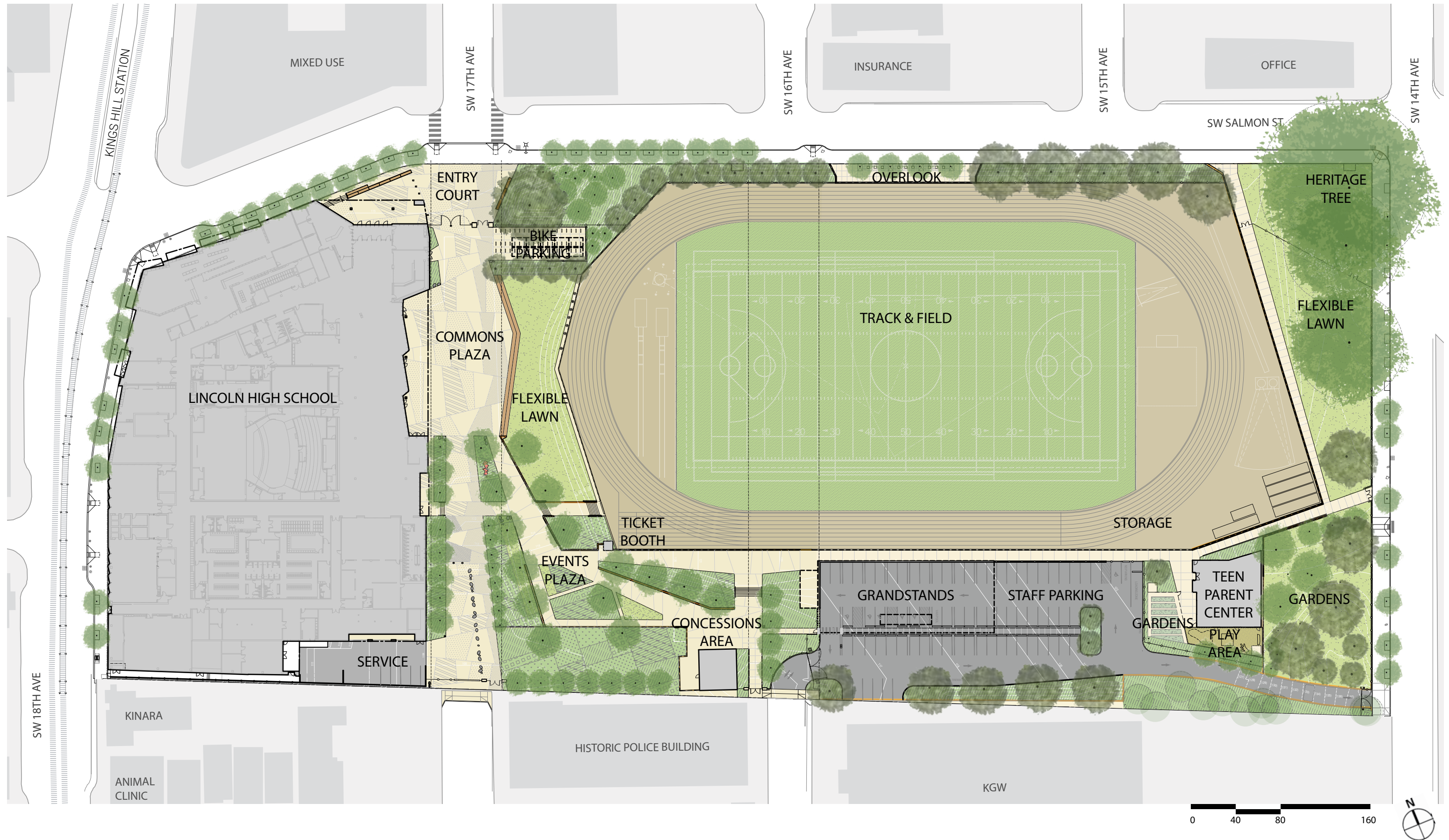
Health Center

Track & Field With Grandstands

Teen Parent Center

Plazas, Landscape & Faculty Parking

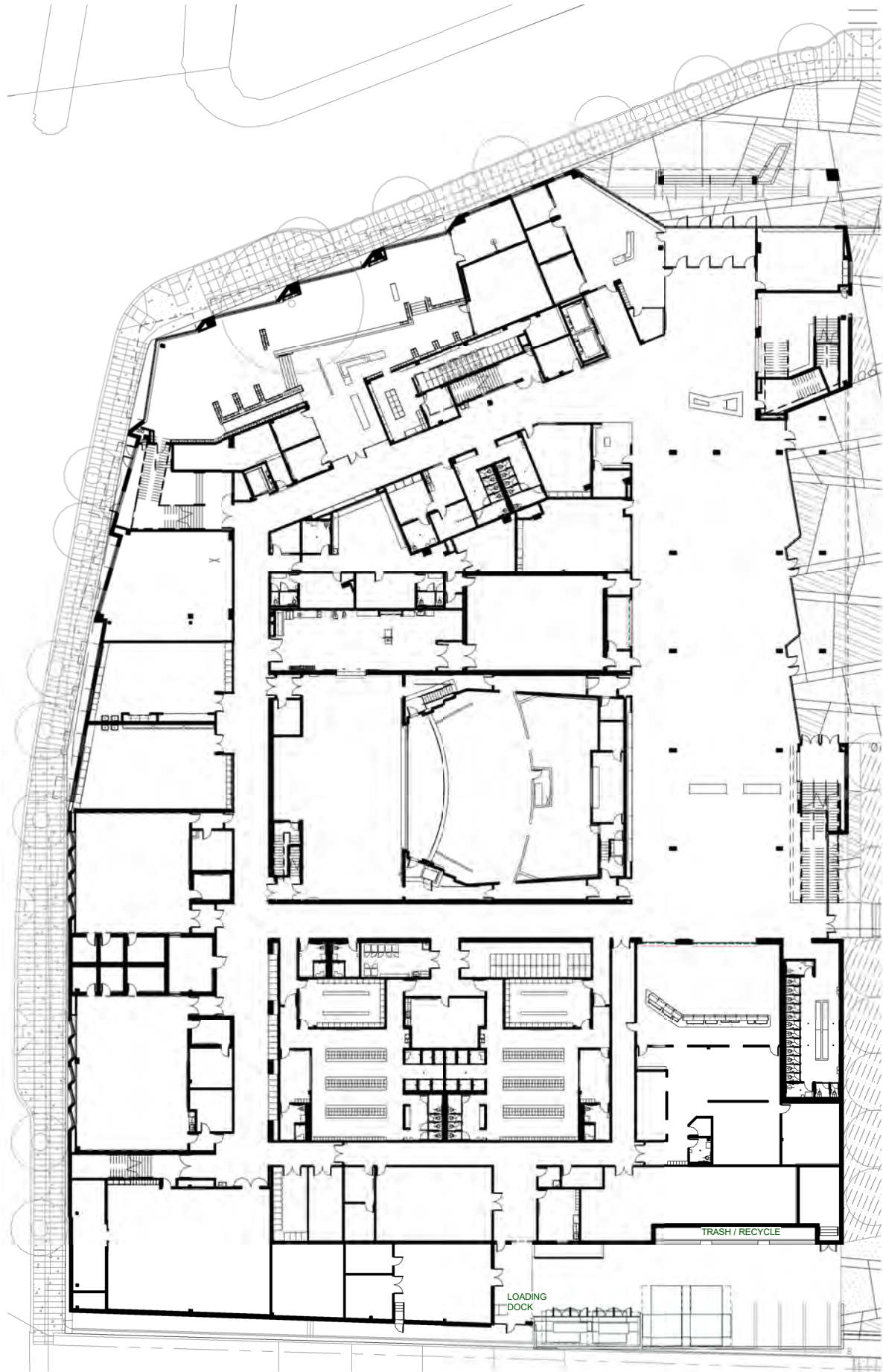
SITE PLAN



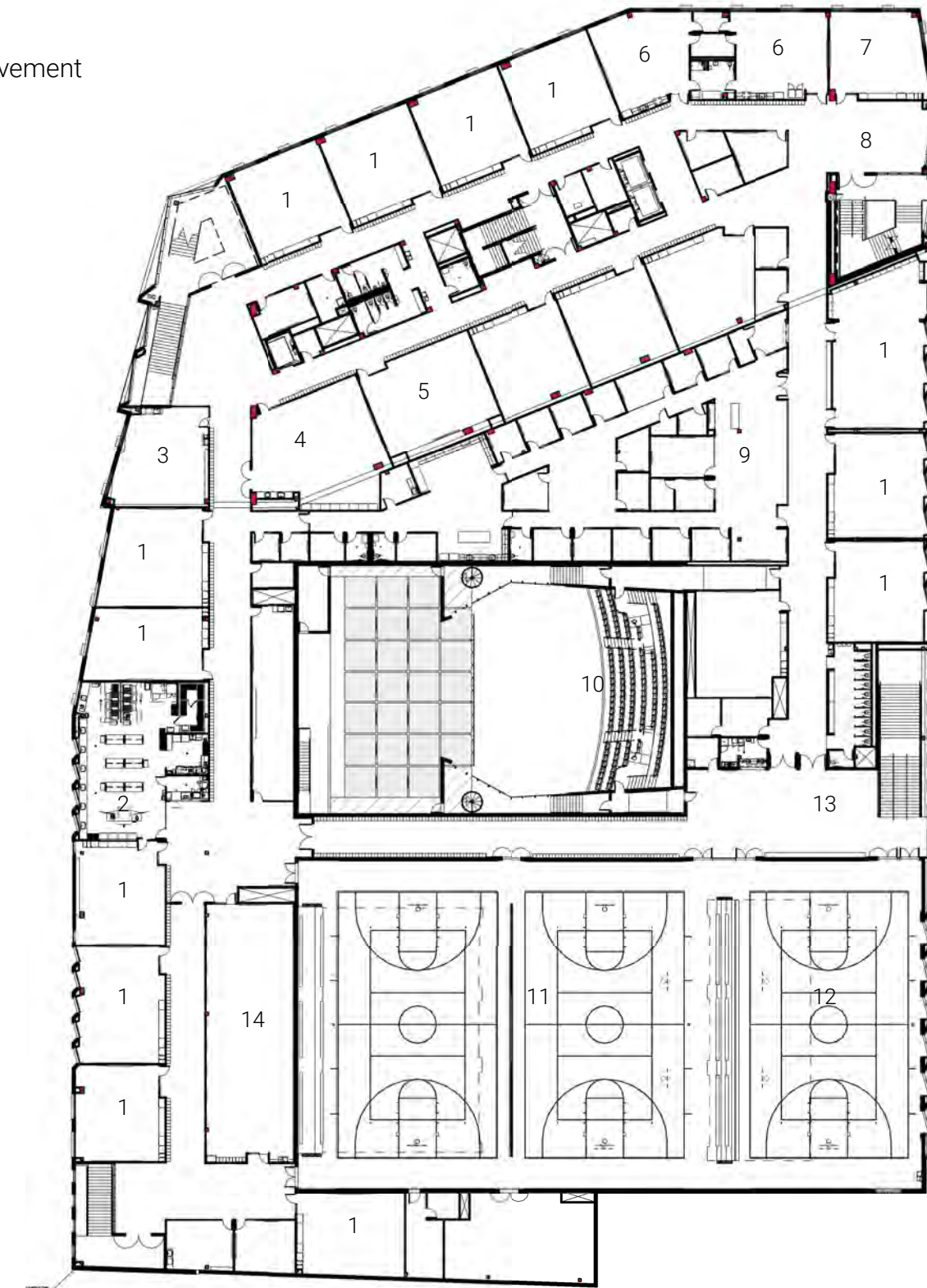
SITE PLAN ALTERNATE



PLANS LEVELS 1 AND 2



- 1. Wrestling/Dance/Movement
- 2. Band
- 3. Choir
- 4. Product Design
- 5. Maker Space
- 6. Health Clinic
- 7. Library
- 8. Administration
- 9. Black Box
- 10. Theater
- 11. Locker Rooms
- 12. Served
- 13. Commons
- 14. Classroom

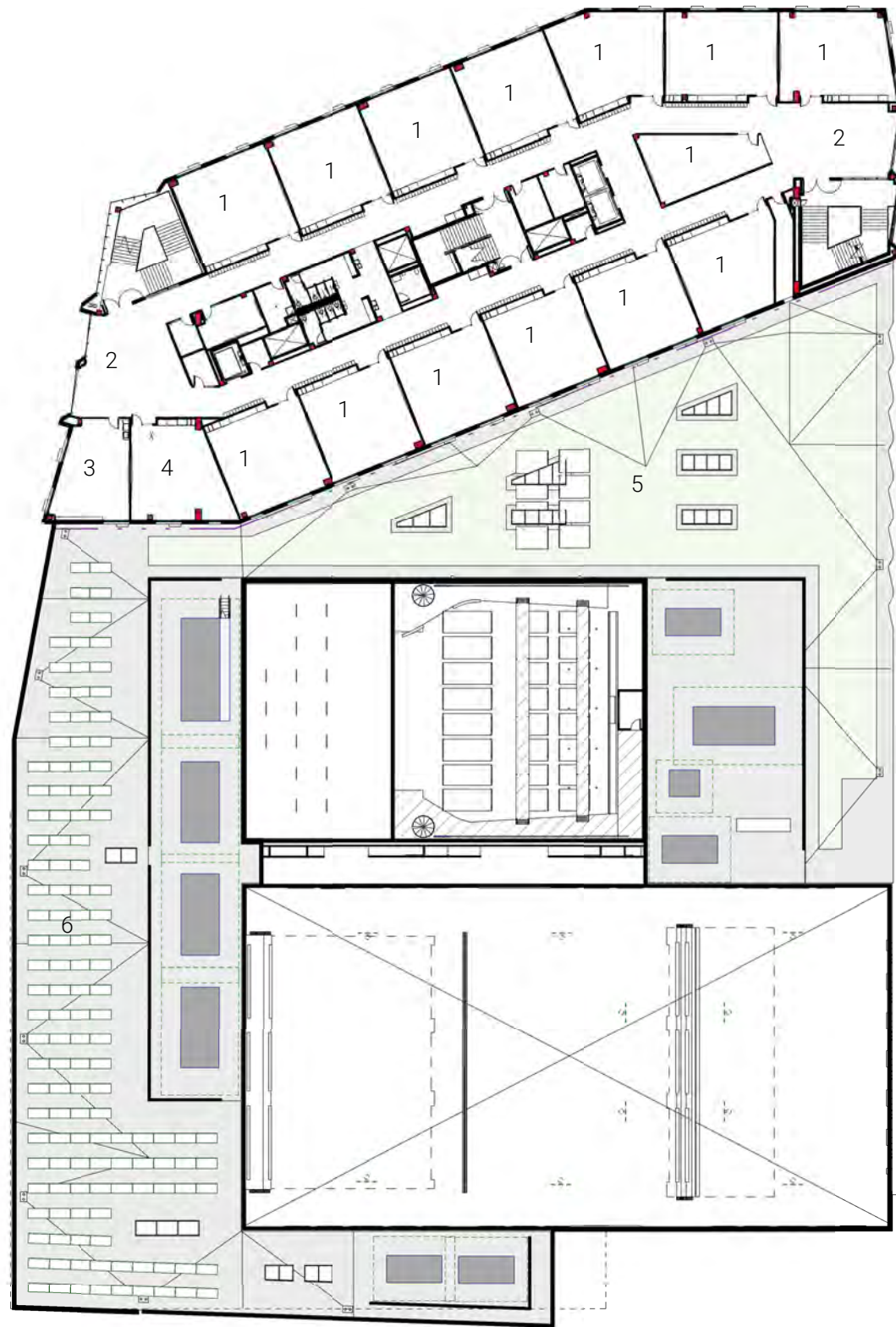


- 1. Classroom
- 2. Culinary Arts
- 3. Teacher Planning
- 4. Robotics Lab
- 5. Computer Lab
- 6. SPED Classroom
- 7. Learning Resource Center
- 8. Flex
- 9. Administration
- 10. Theater Balcony
- 11. Gym
- 12. Auxiliary Gym
- 13. Events Lobby
- 14. Weights/Aerobics

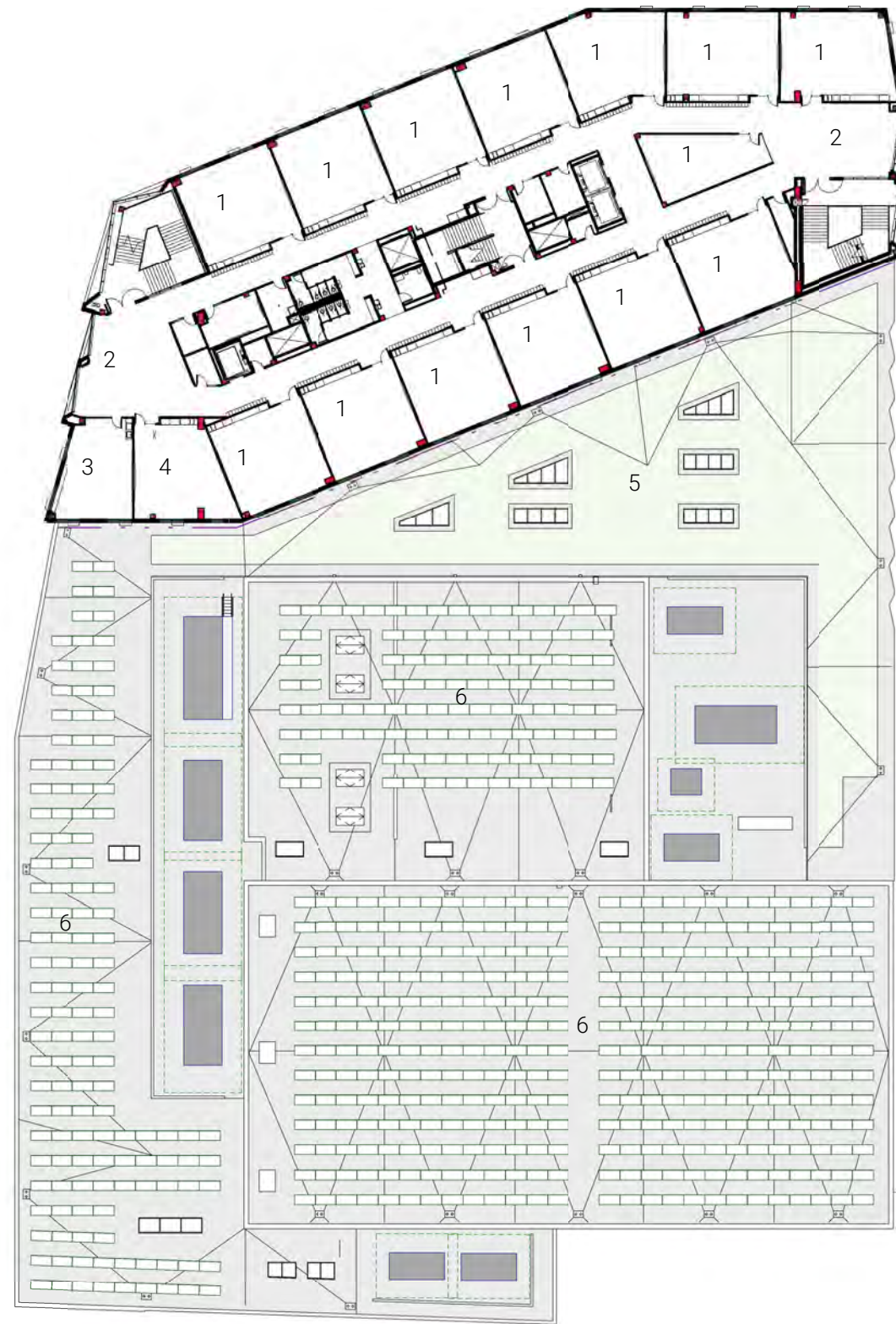


SECOND FLOOR PLAN

SCALE: 1" = 50'-0"



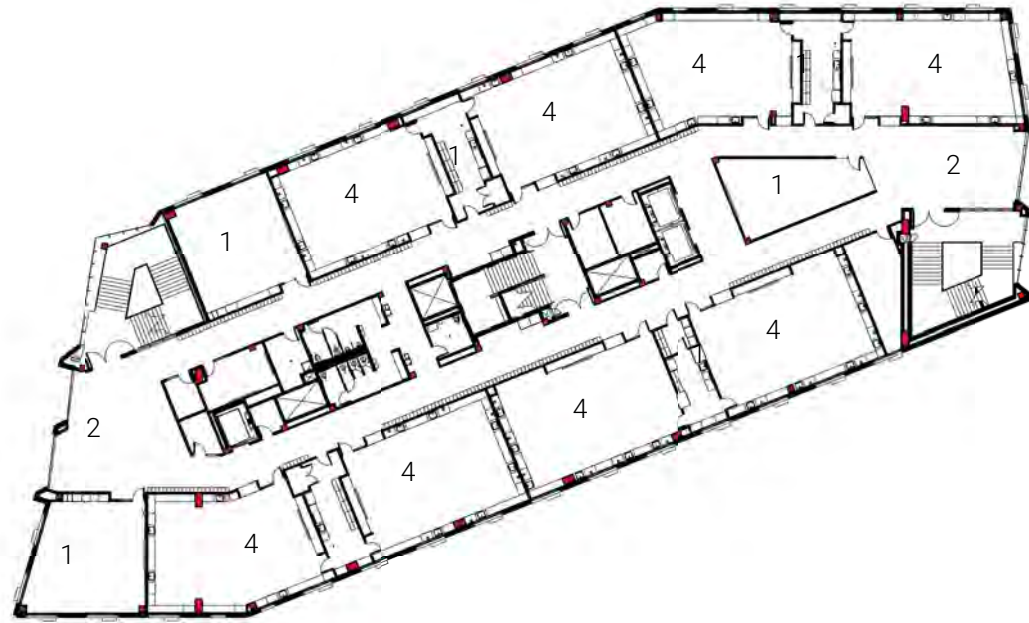
THIRD FLOOR PLAN SCALE: 1" = 50'-0"



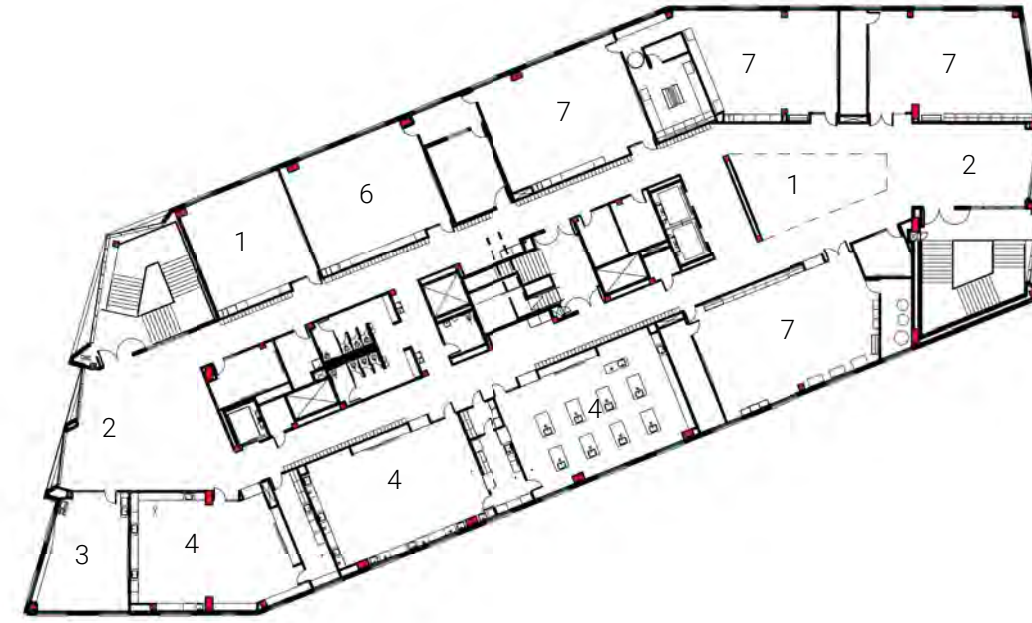
FOURTH FLOOR PLAN SCALE: 1" = 50'-0"

- 1. Classroom
- 2. Flex
- 3. Teacher Planning
- 4. Learning Resource Center
- 5. Eco Roof
- 6. PV Array

PLANS LEVELS 5, 6 AND ROOF

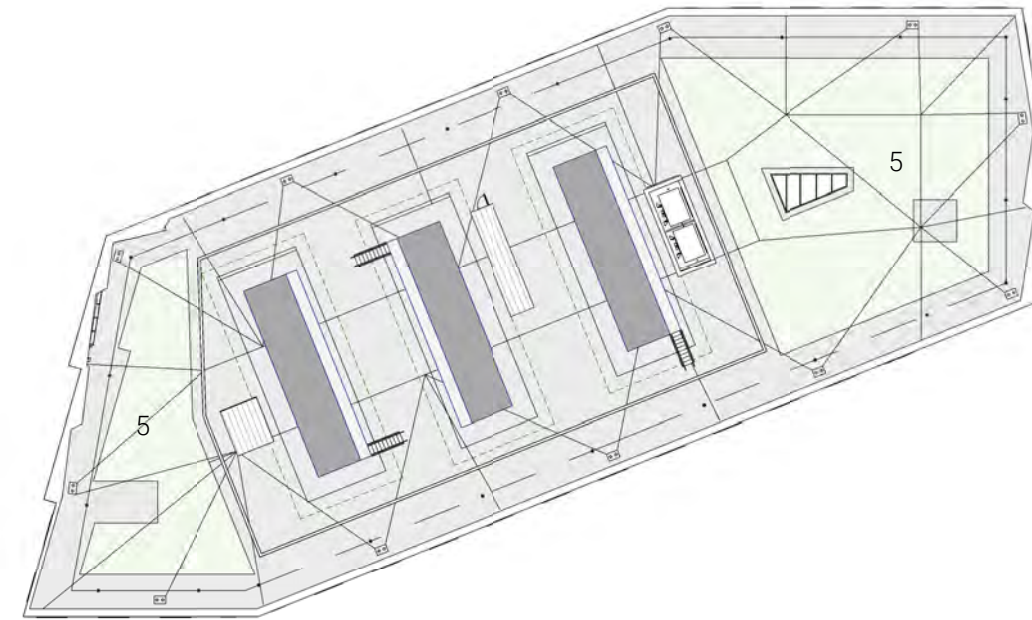


SIXTH FLOOR PLAN SCALE: 1" = 50'-0"



FIFTH FLOOR PLAN SCALE: 1" = 50'-0"

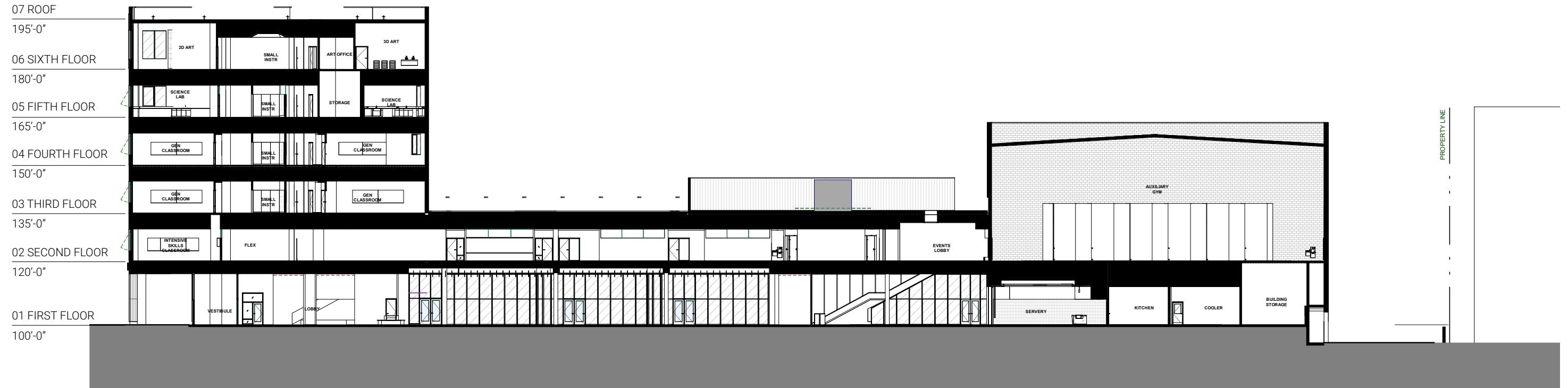
- 1. Classroom
- 2. Flex
- 3. Teacher Planning
- 4. Science Lab
- 5. Eco Roof
- 6. Computer Lab
- 7. Art Classroom



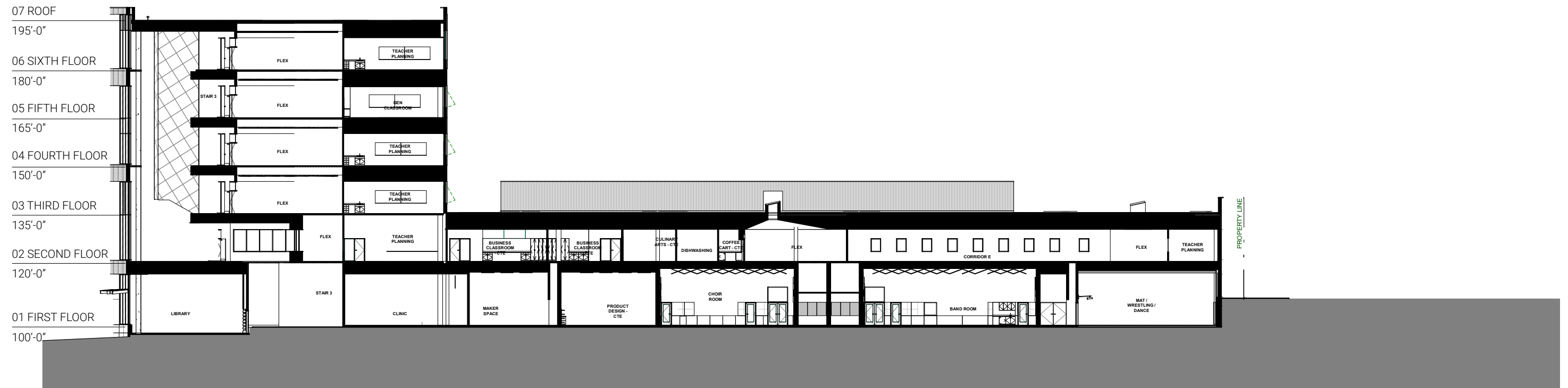
ROOF PLAN SCALE: 1" = 50'-0"



BUILDING SECTIONS



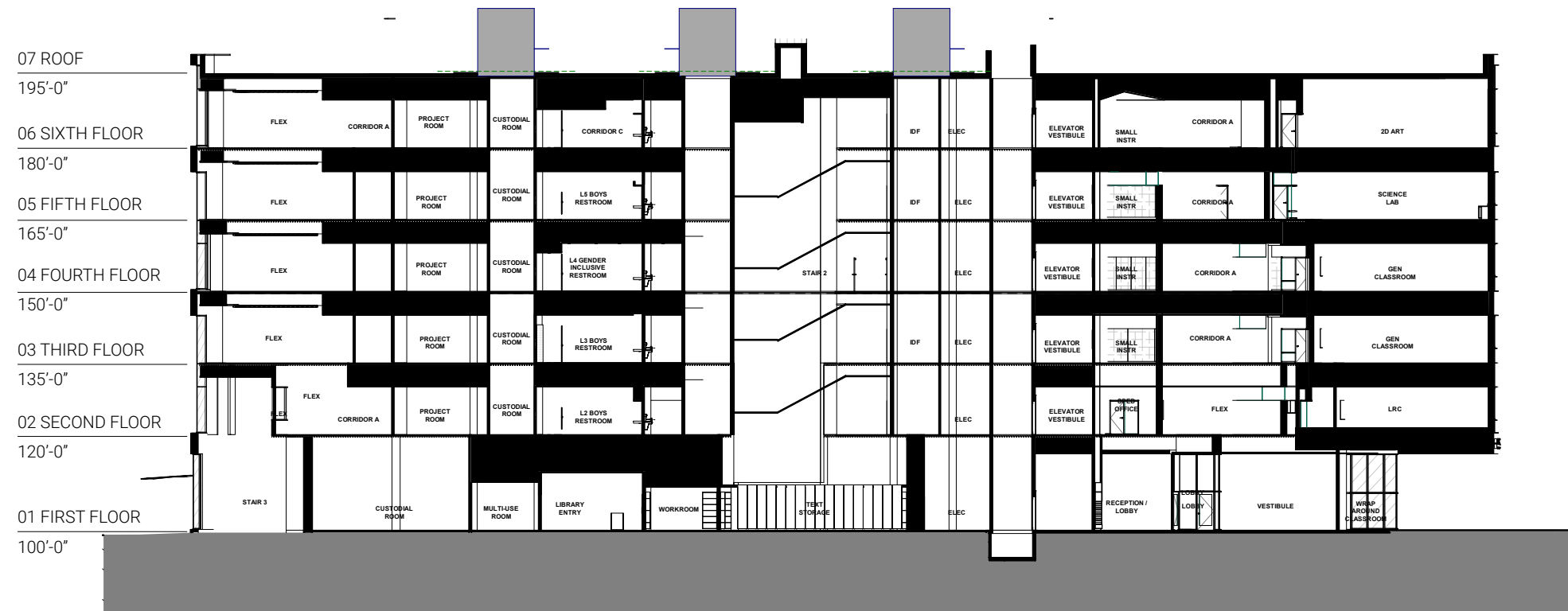
SECTION THROUGH COMMONS AND AUX GYM



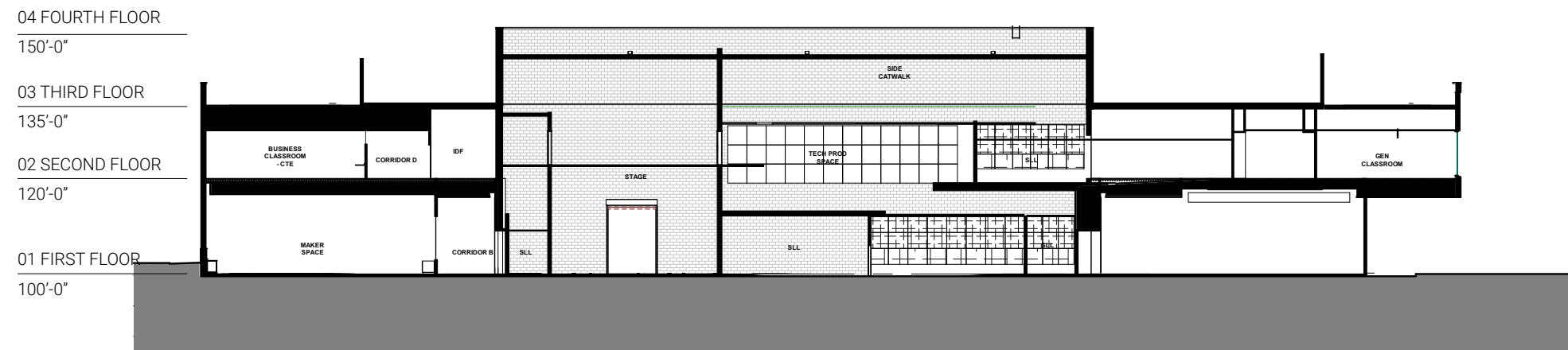
SECTION THROUGH LIBRARY CHOIR AND BAND ROOMS

SCALE: 1/32" = 1'-0"

BUILDING SECTIONS



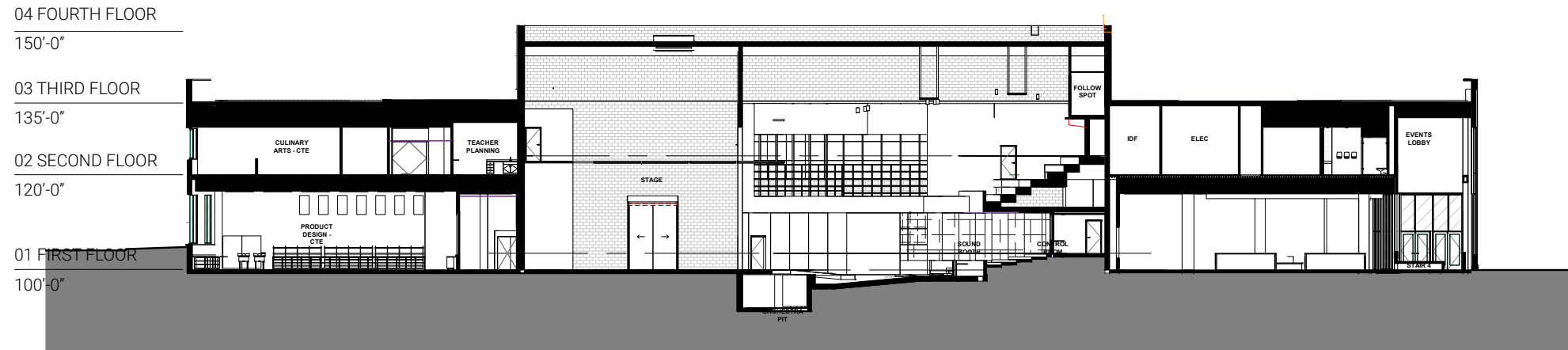
SECTION THROUGH CLASSROOM BAR



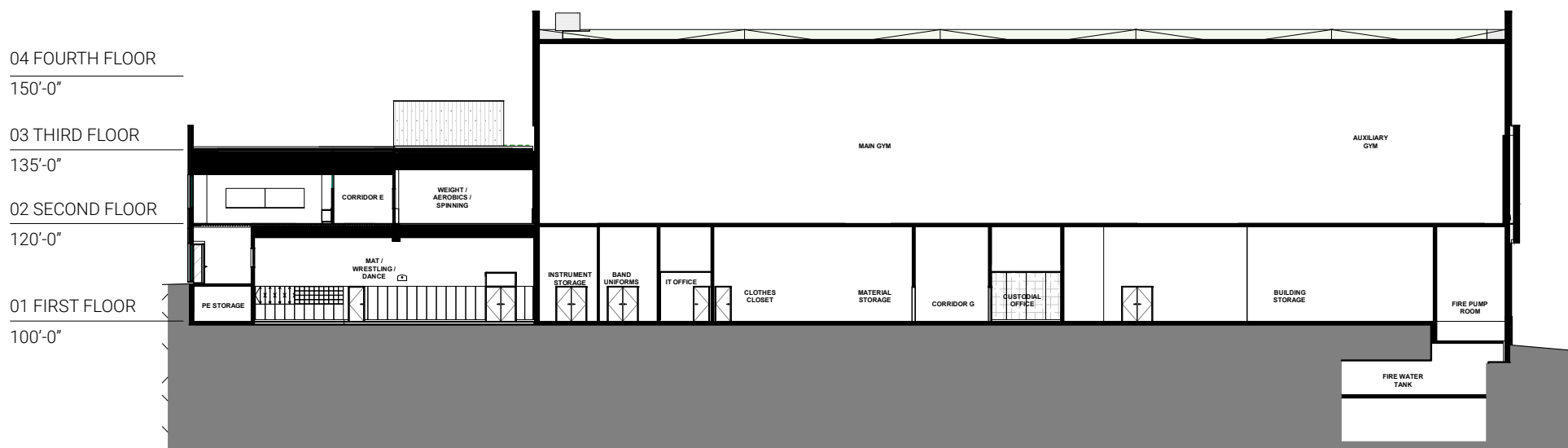
SECTION THROUGH BLACK BOX

SCALE: 1/32" = 1'-0"

BUILDING SECTIONS



SECTION THROUGH THEATER



SECTION THROUGH GYM

SCALE: 1/32" = 1'-0"















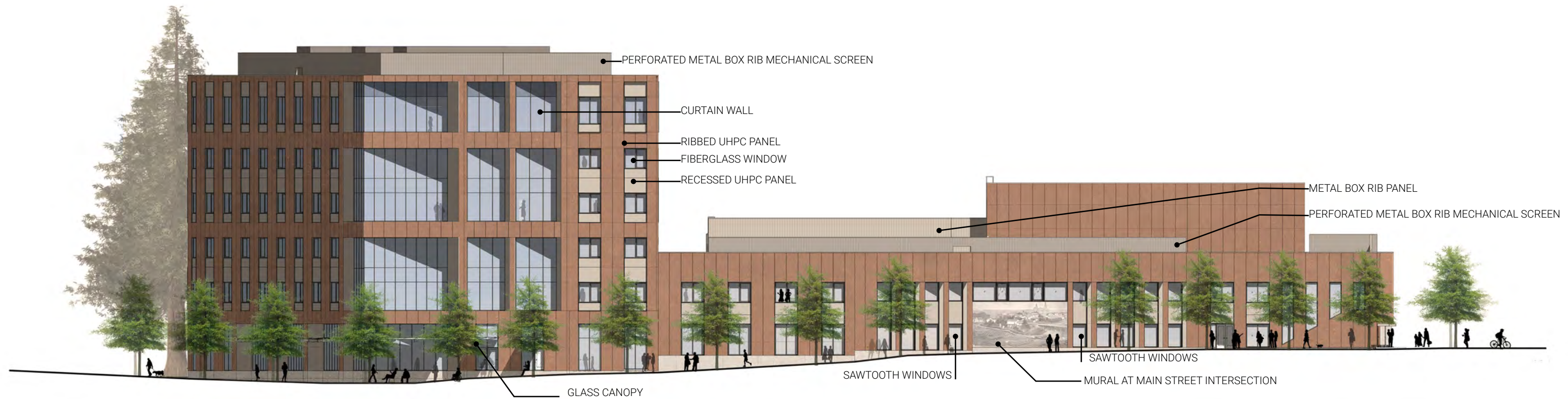


NORTH ELEVATION



SCALE: 1/32" = 1'-0"

WEST ELEVATION



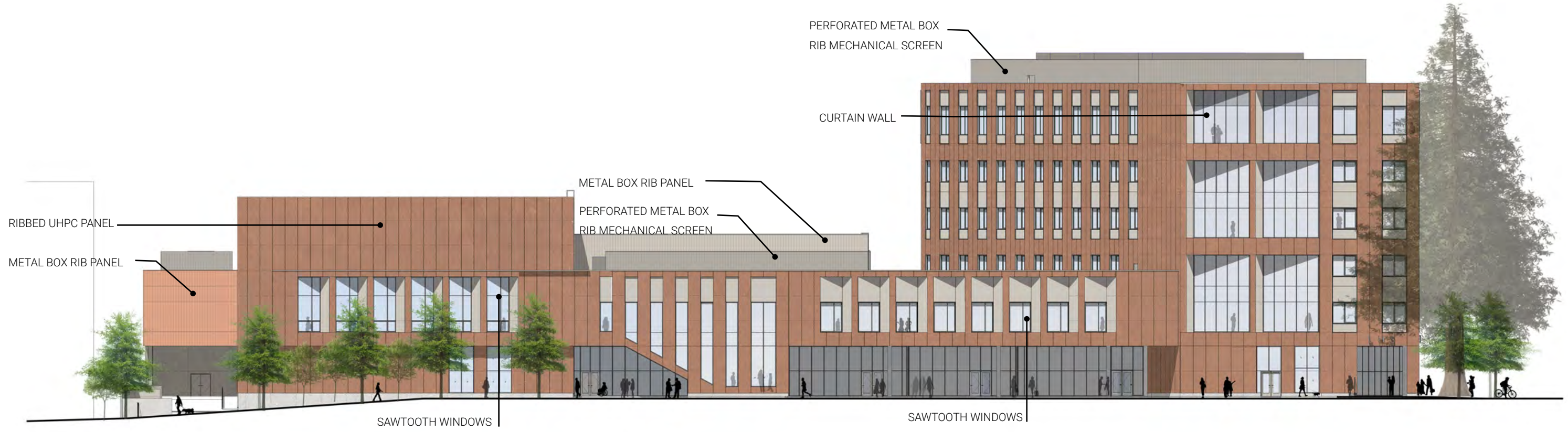
SCALE: 1/32" = 1'-0"

SOUTH ELEVATION

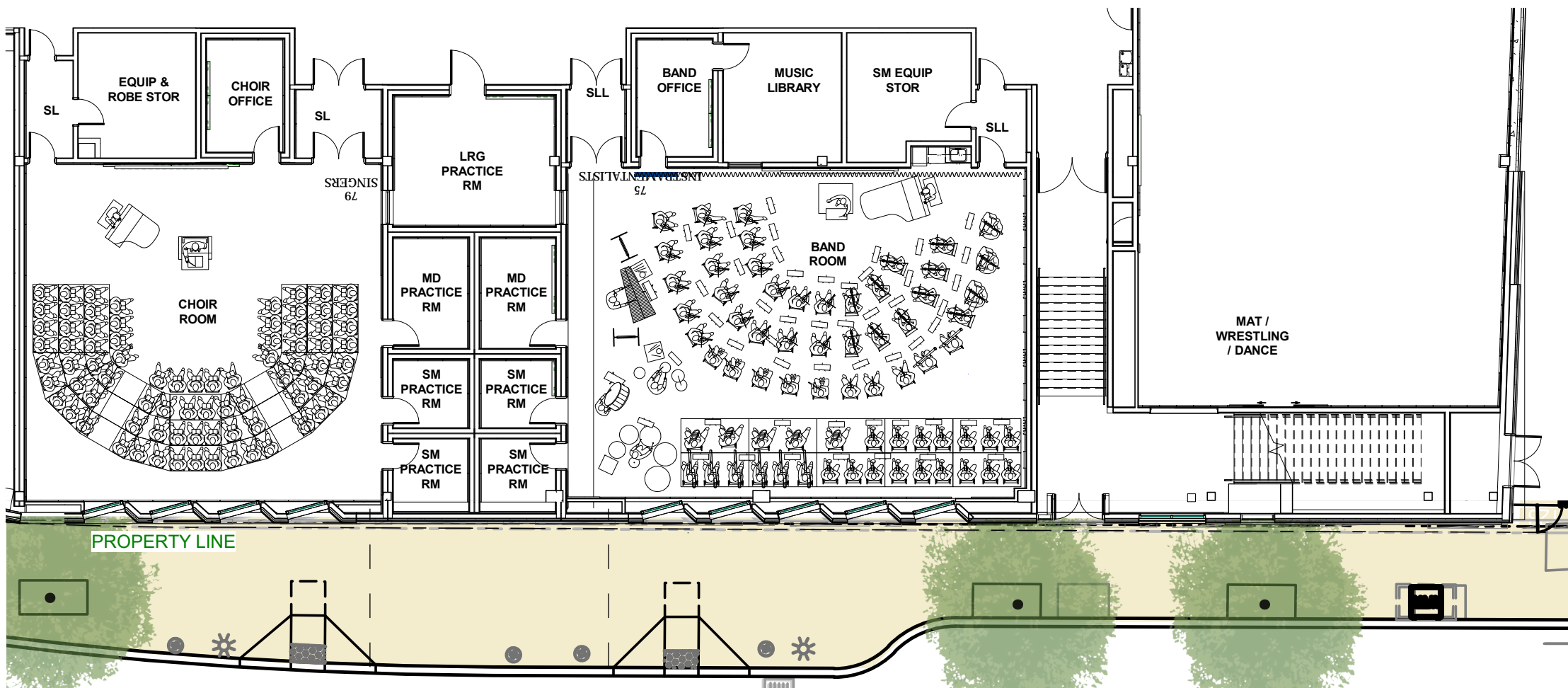


SCALE: 1/32" = 1'-0"

EAST ELEVATION



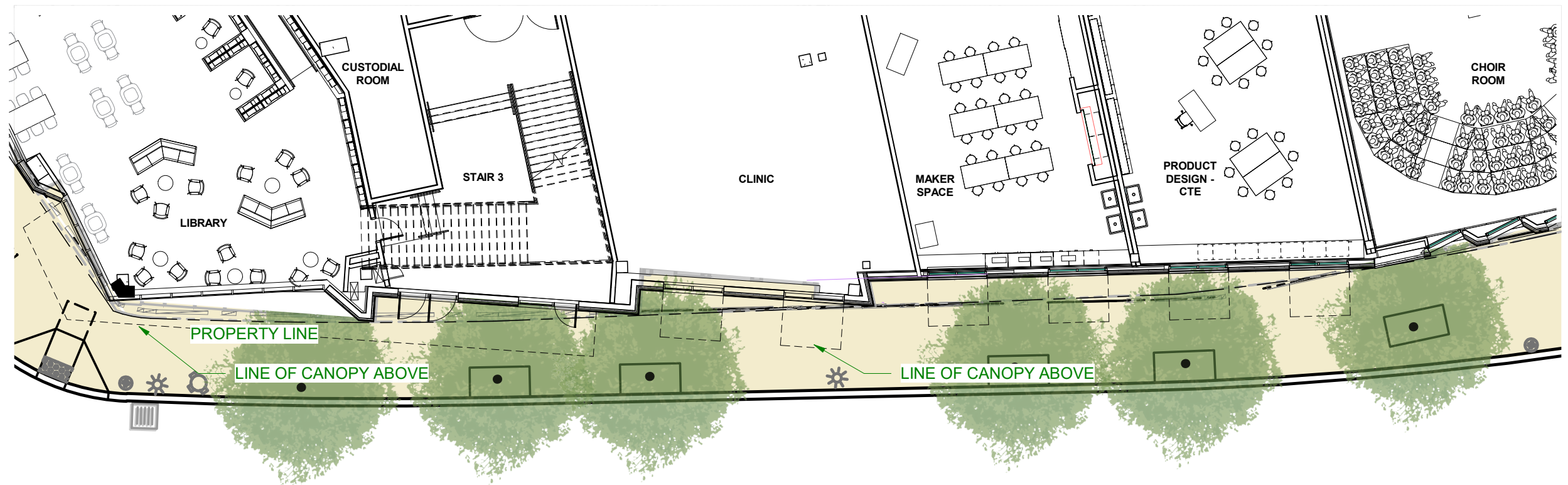
SCALE: 1/32" = 1'-0"



WEST ELEVATION & GROUND LEVEL PLAN  
SCALE: 1/16" = 1'-0"

MAIN ST  
INTERSECTION

SW 18TH AVE

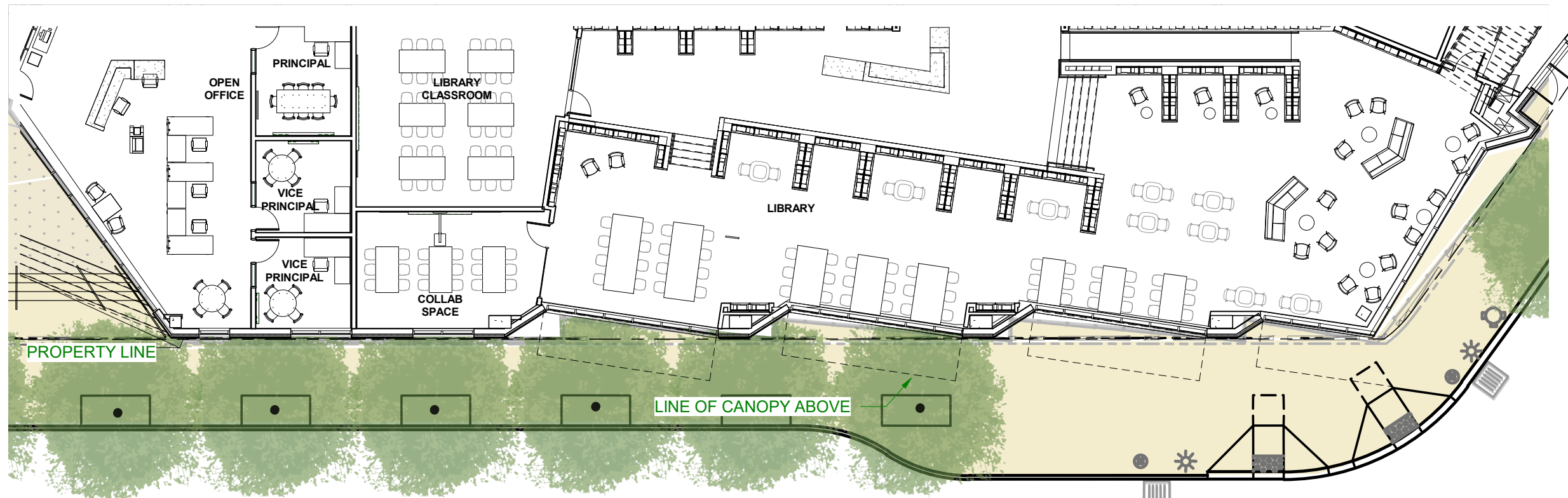


WEST ELEVATION & GROUND LEVEL PLAN

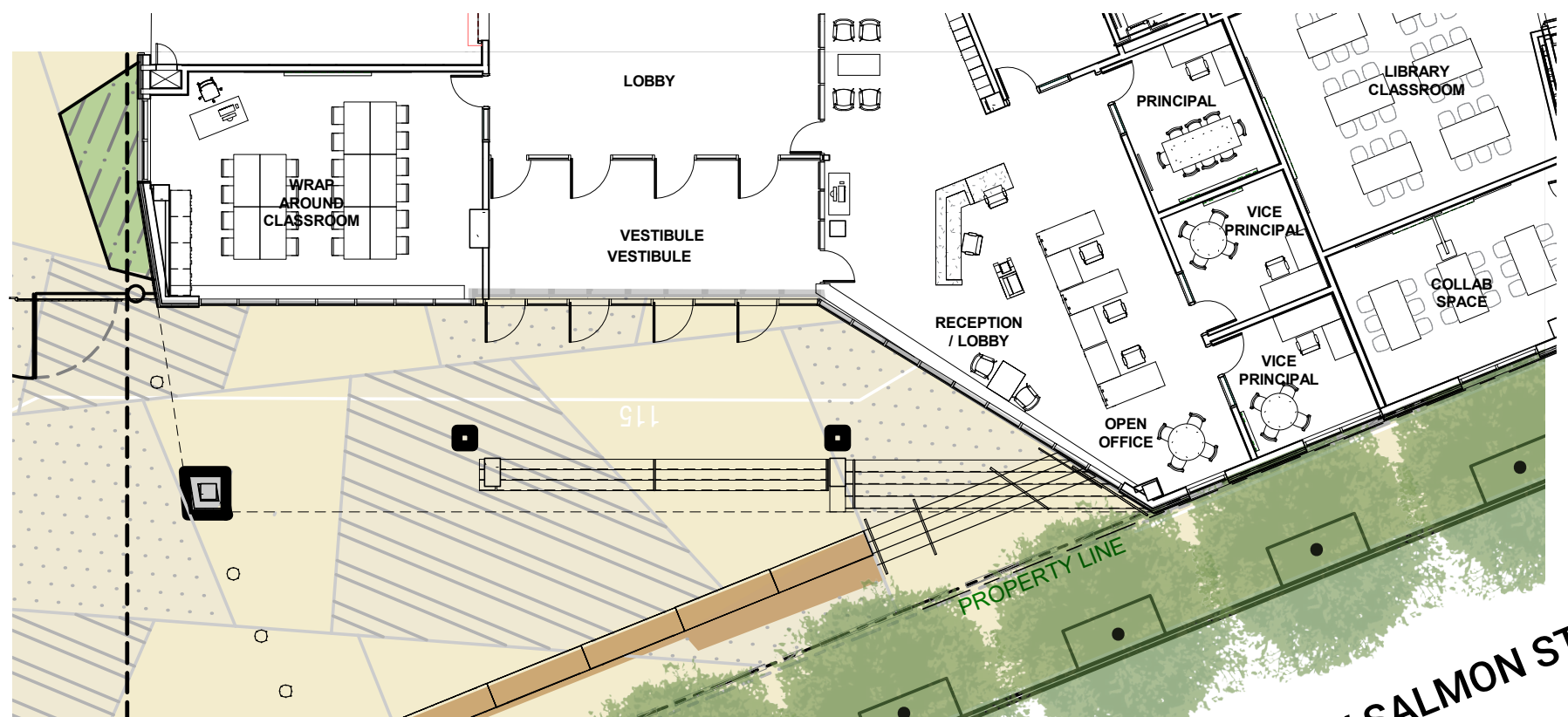
SCALE: 1/16" = 1'-0"

SW 18TH AVE



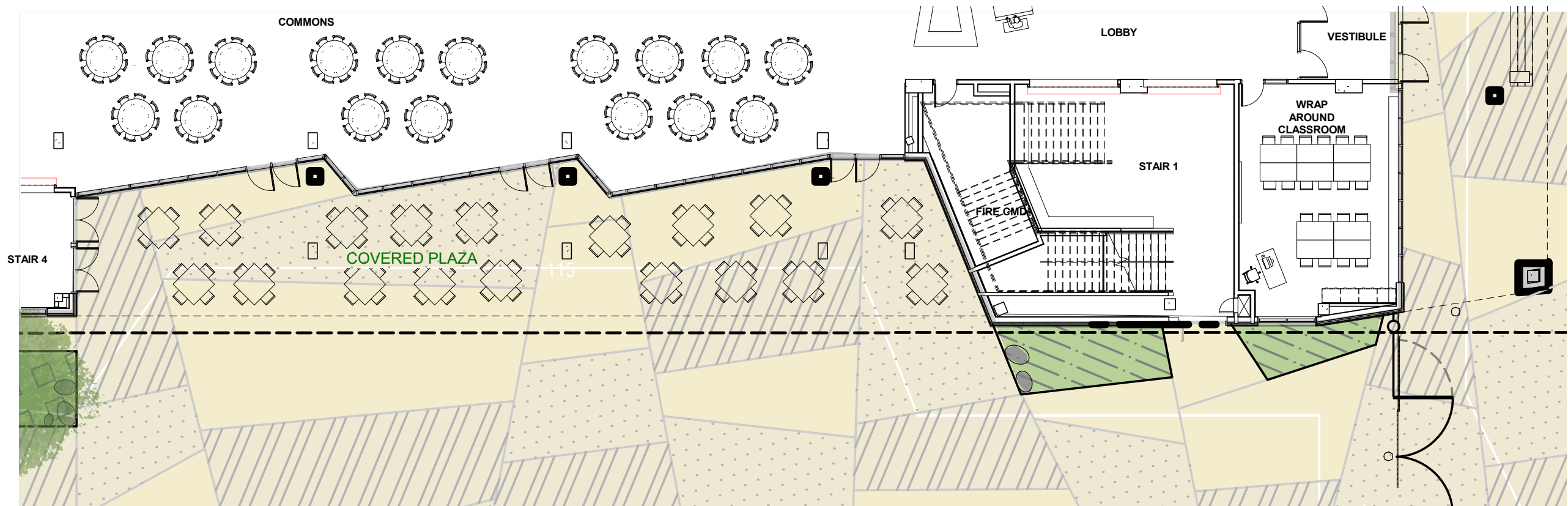


NORTH ELEVATION & GROUND LEVEL PLAN  
 SCALE: 1/16" = 1'-0"



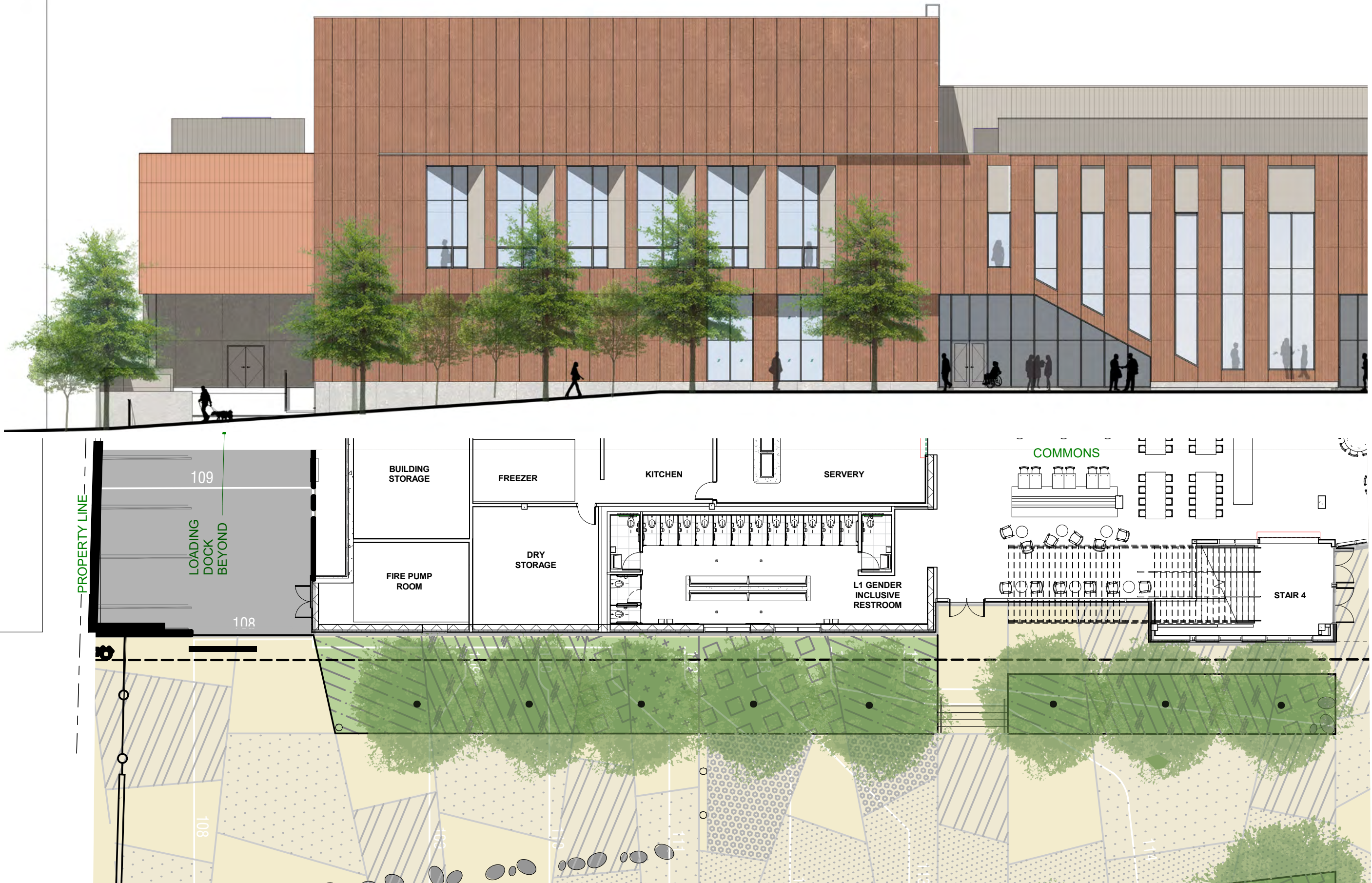
NORTH ELEVATION & GROUND LEVEL PLAN

SCALE: 1/16" = 1'-0"



EAST ELEVATION & GROUND LEVEL PLAN

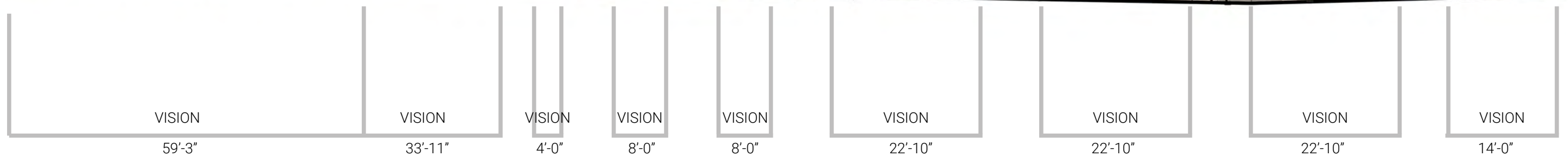
SCALE: 1/16" = 1'-0"



EAST ELEVATION & GROUND LEVEL PLAN

SCALE: 1/16" = 1'-0"

GROUND LEVEL GLAZING SW SALMON STREET



SALMON	FACADE LENGTH	WINDOW LENGTH	FACADE AREA (TO 9')	WINDOW AREA (TO 9')	% GLAZING 2'-10'
TOTAL	261'-11"	195'-8" (74.7%)	2,357 ft <sup>2</sup>	1387 ft <sup>2</sup> (59%)	63.75%

NOT TO SCALE

GROUND LEVEL GLAZING SW 18th STREET

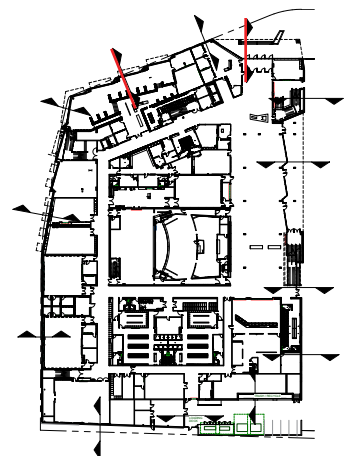
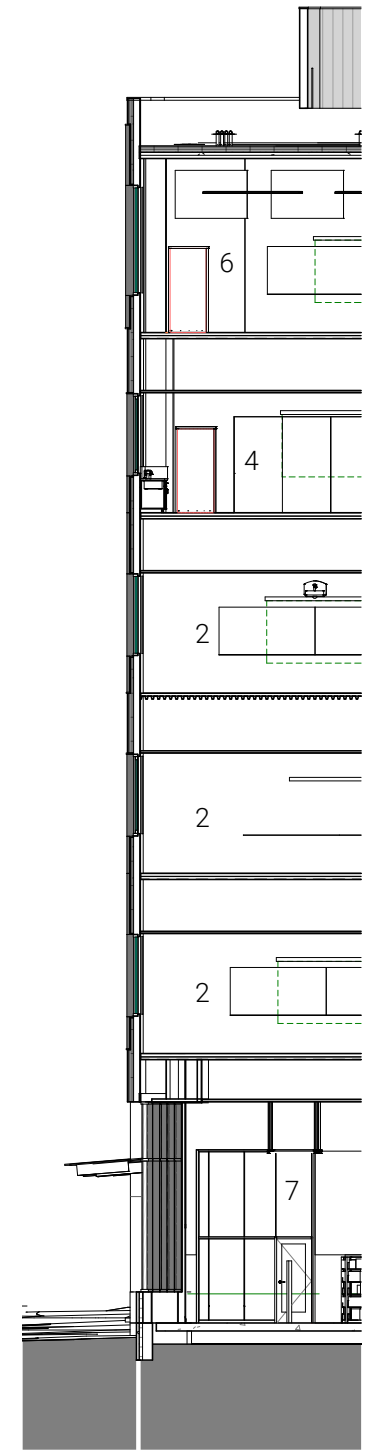
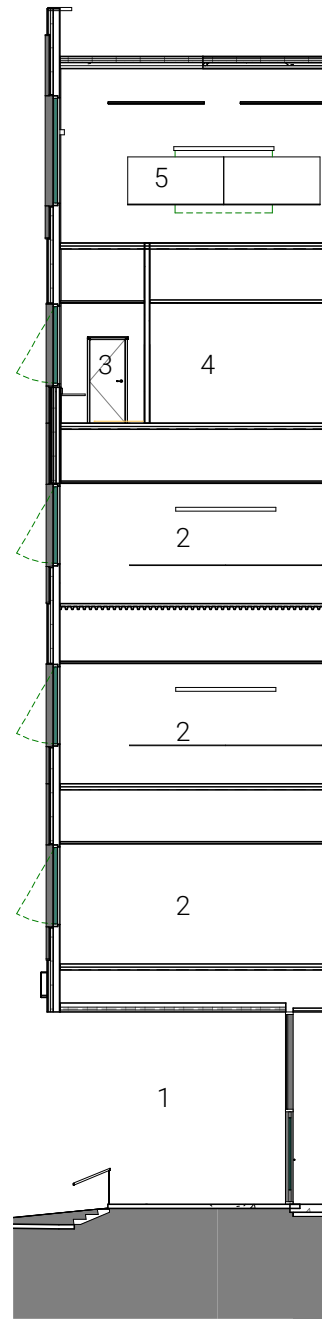


SW 18th	FACADE LENGTH	WINDOW LENGTH	FACADE AREA (TO 9')	WINDOW AREA (TO 9')	% GLAZING 2'-10'
TOTAL	344'-2"	197'-5" (57.36%)	3097.5 ft <sup>2</sup>	1298.95 ft <sup>2</sup> (41.94%)	48.40%

NOT TO SCALE

WALL SECTIONS - NORTH

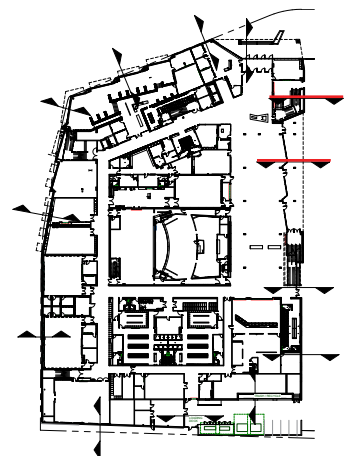
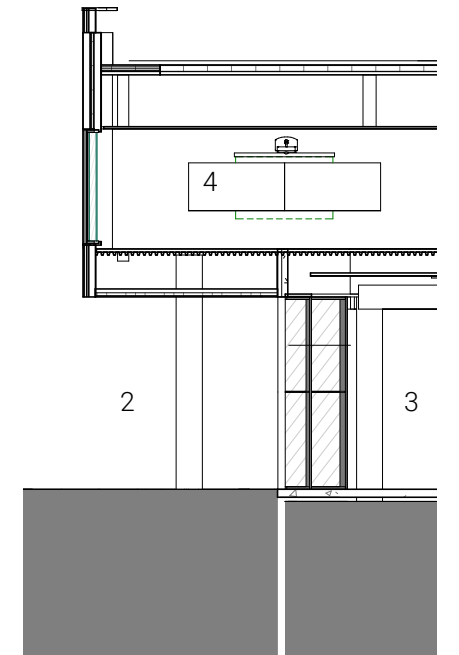
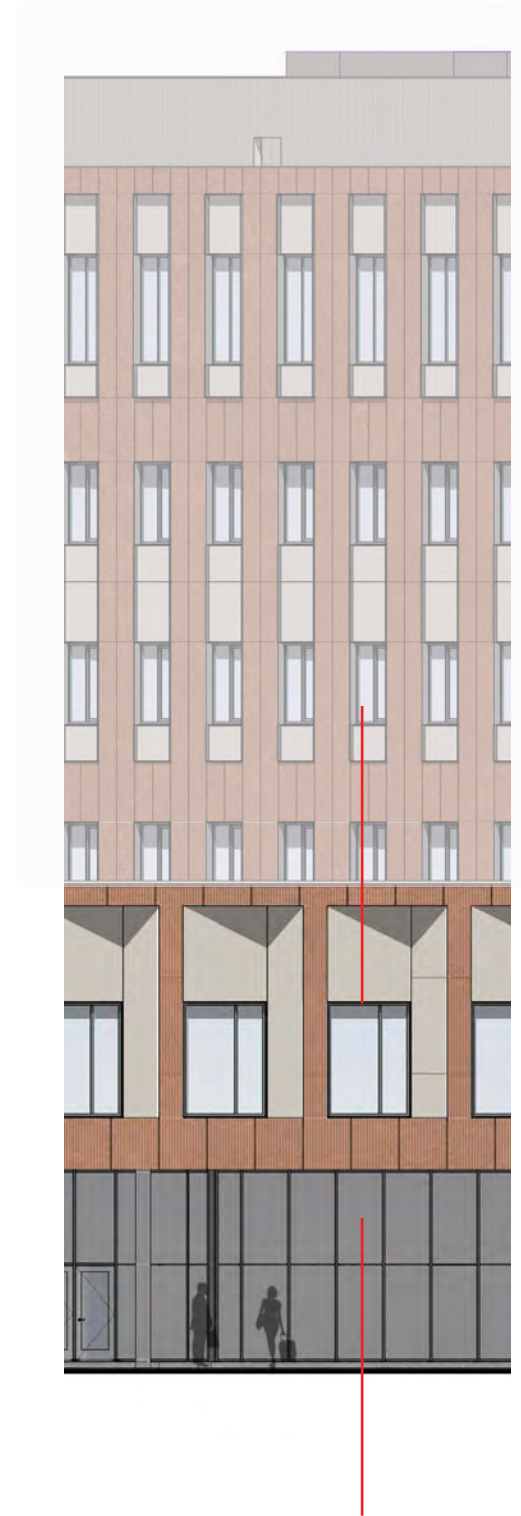
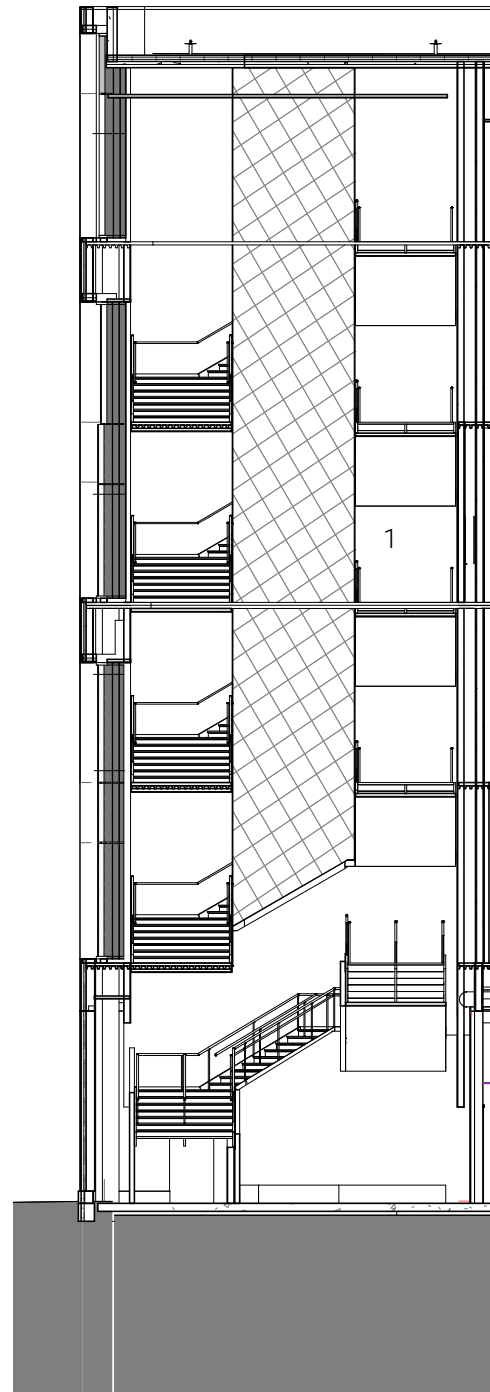
- 1. Main Entry
- 2. Classroom
- 3. Prep Room
- 4. Science Lab
- 5. Art Classroom
- 6. Computer Lab
- 7. Library



SCALE: 1/16" = 1'-0"

WALL SECTIONS - EAST

- 1. Stair
- 2. Commons Plaza
- 3. Commons
- 4. Large Classroom

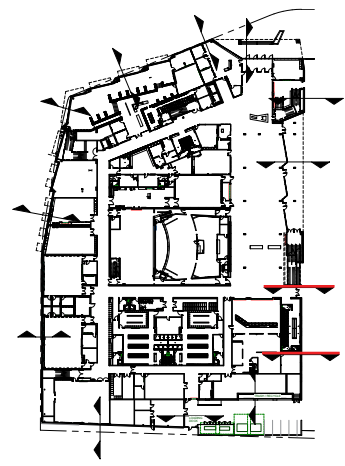


SCALE: 1/16" = 1'-0"

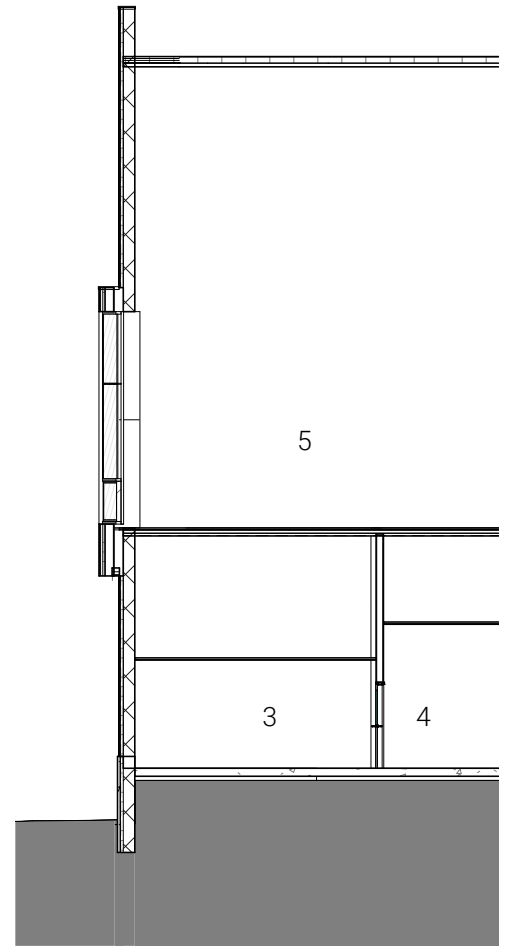
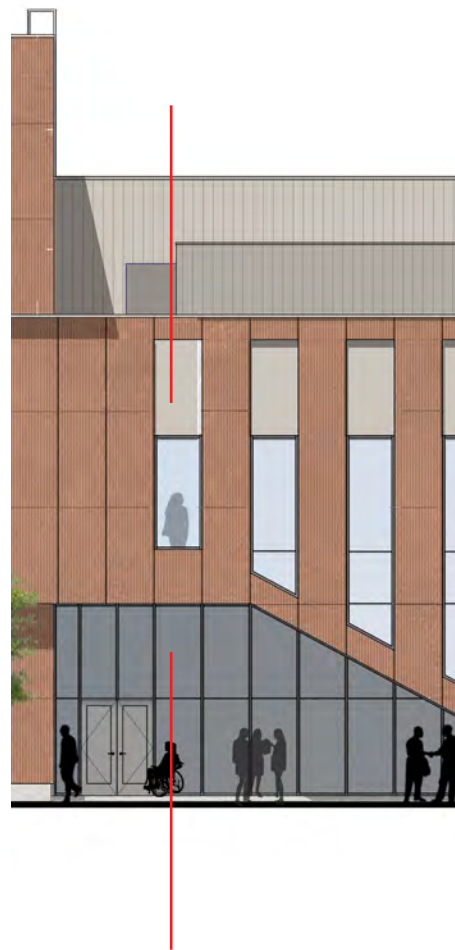


WALL SECTIONS - EAST

- 1. Commons
- 2. Events Lobby
- 3. Storage
- 4. Kitchen
- 5. Aux Gym

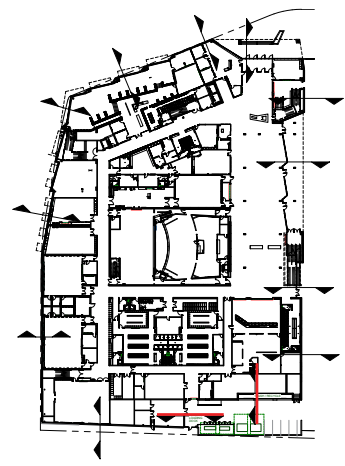


SCALE: 1/16" = 1'-0"

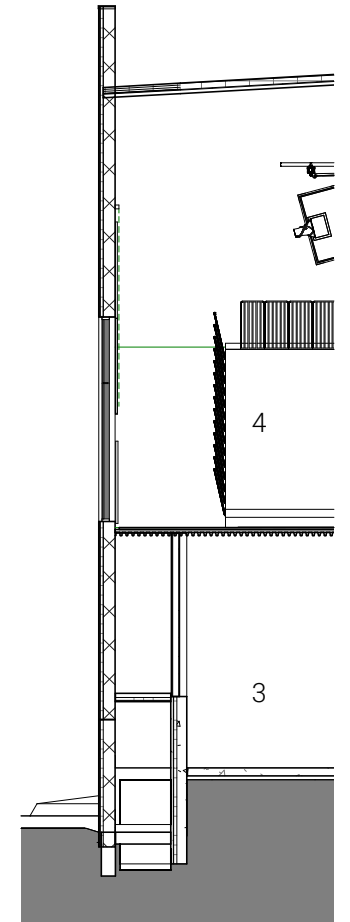
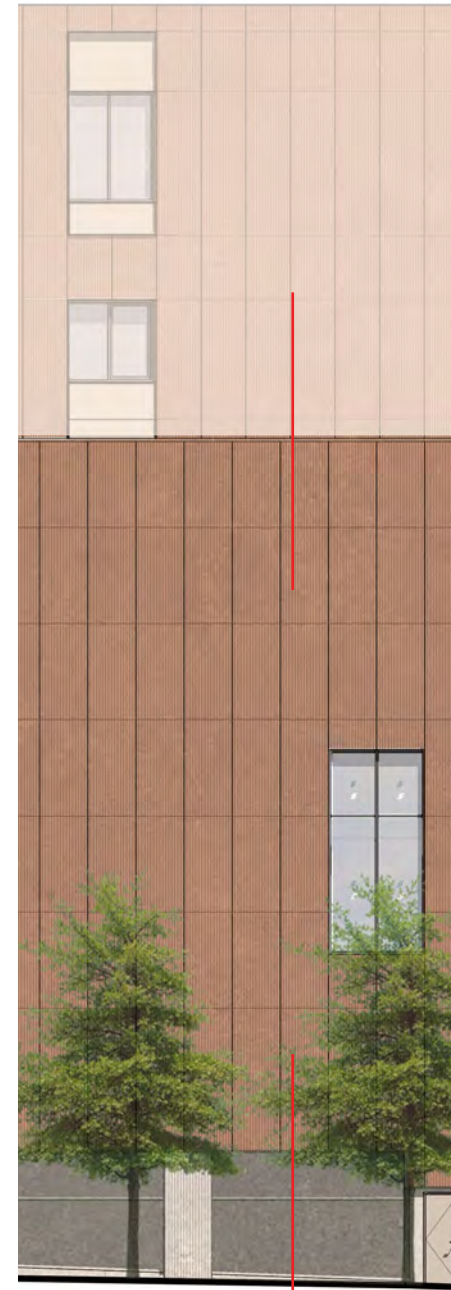
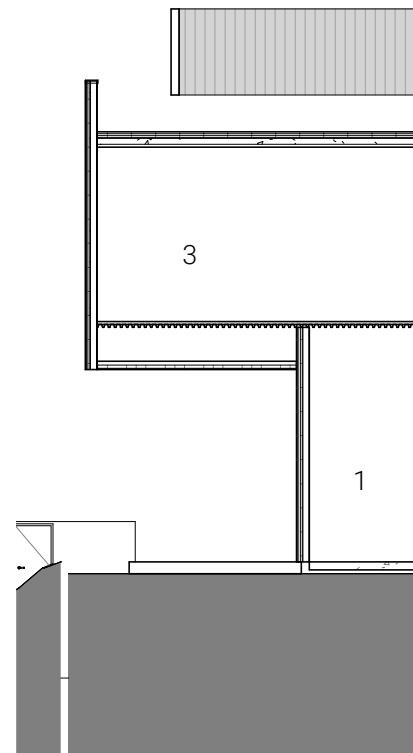
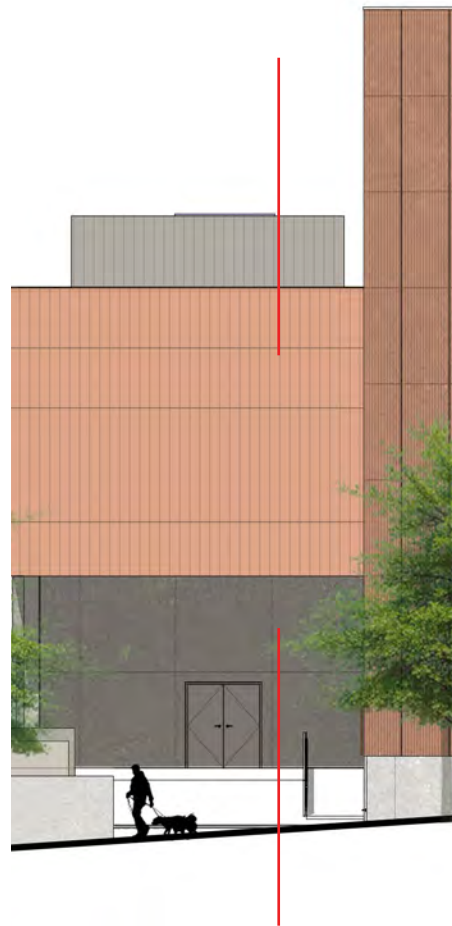


WALL SECTIONS -LOADING AREA

- 1. Mechanical
- 2. Events Lobby
- 3. Storage
- 4. Aux Gym

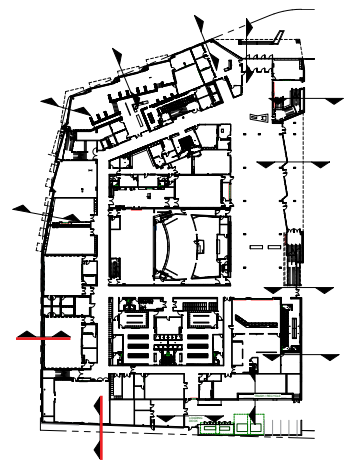
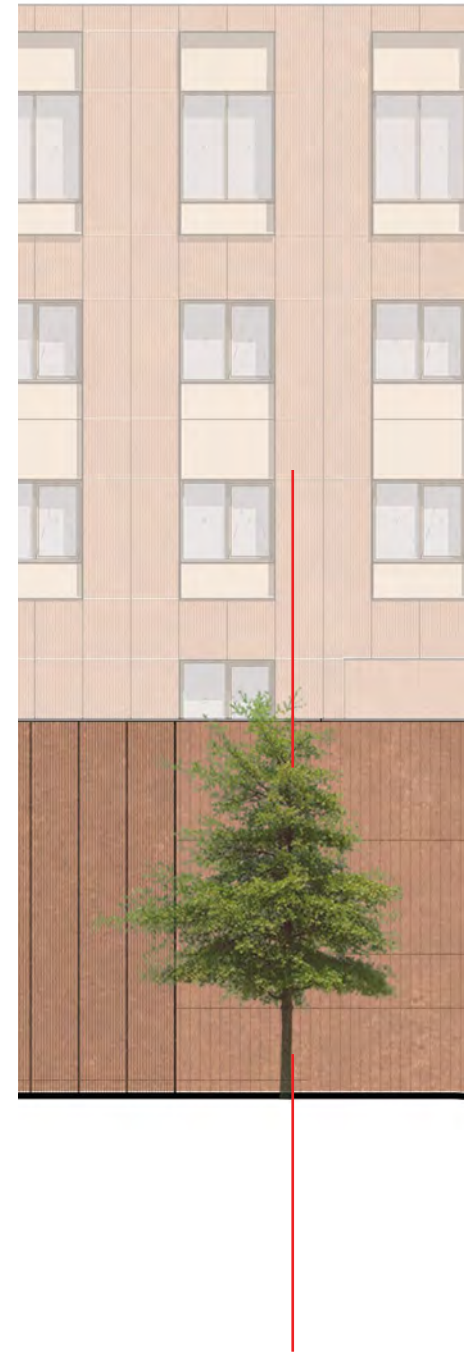
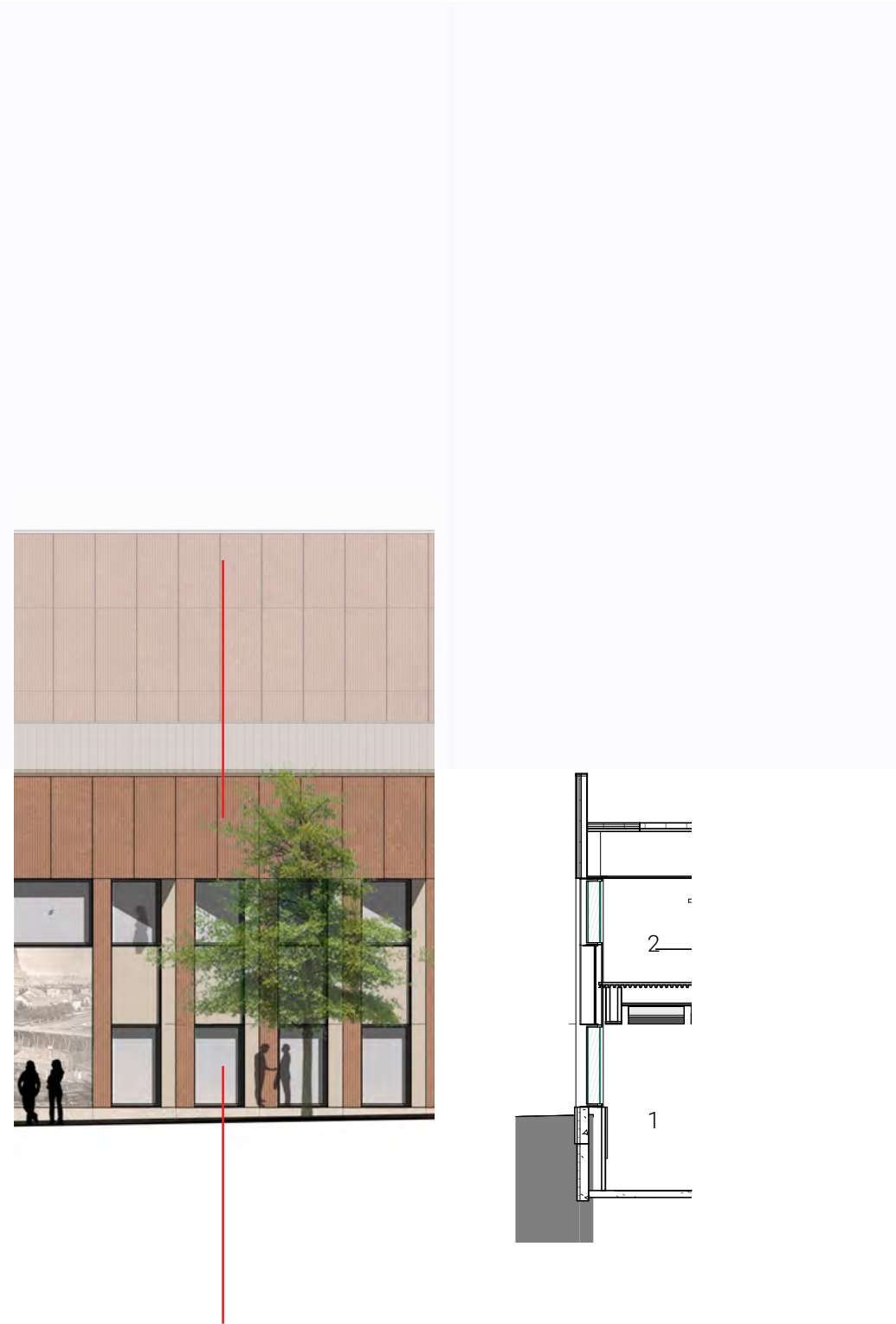


SCALE: 1/16" = 1'-0"

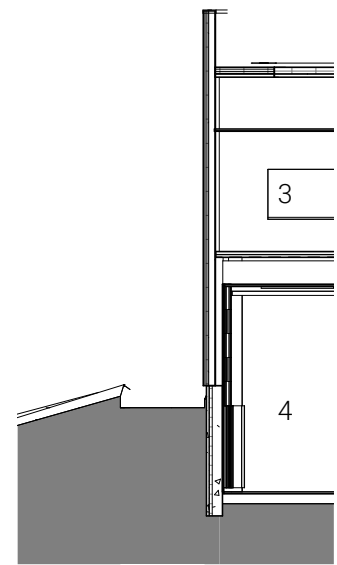


WALL SECTIONS - WEST

- 1. Band Room
- 2. Classroom
- 3. Office
- 4. Mat/Wrestling / Dance

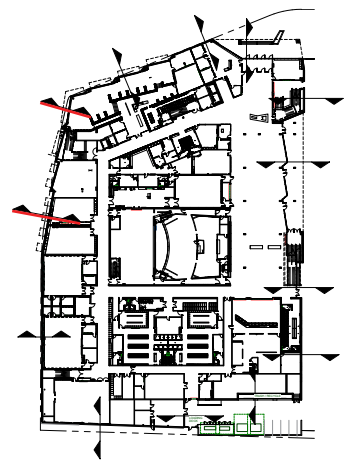
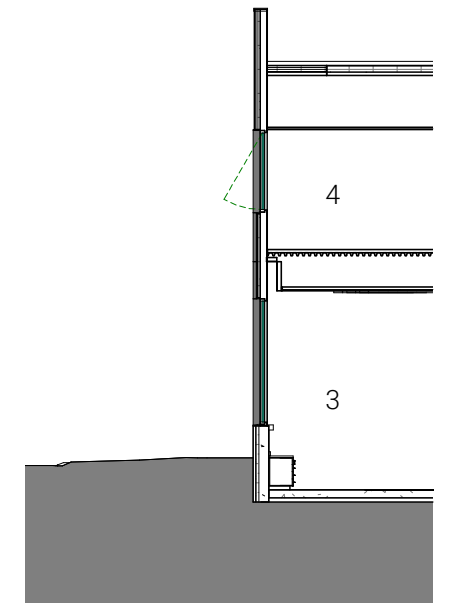
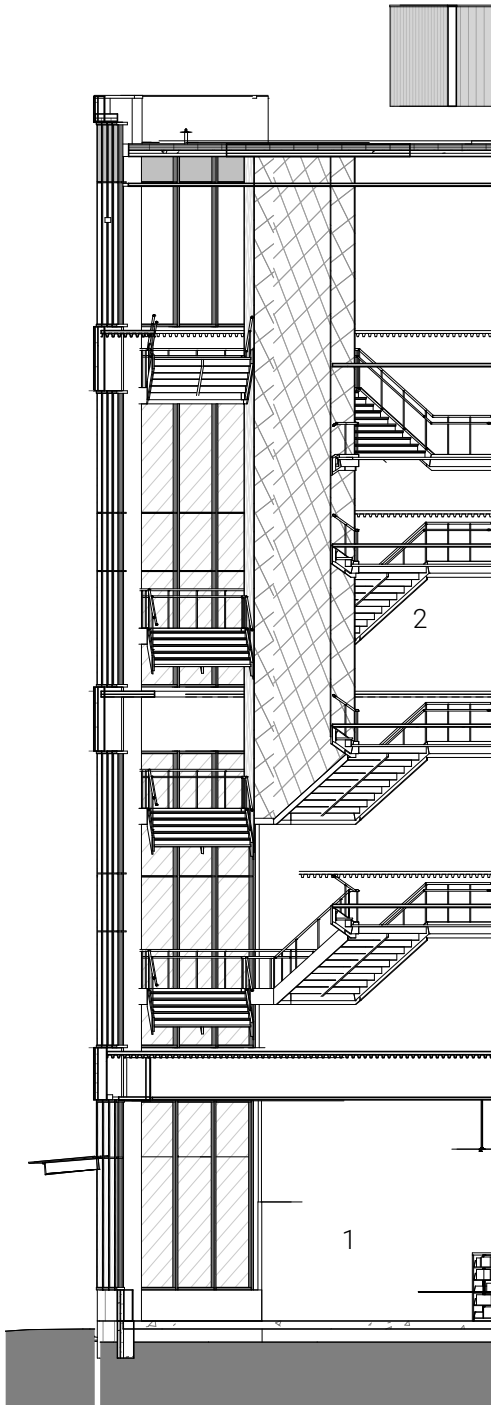
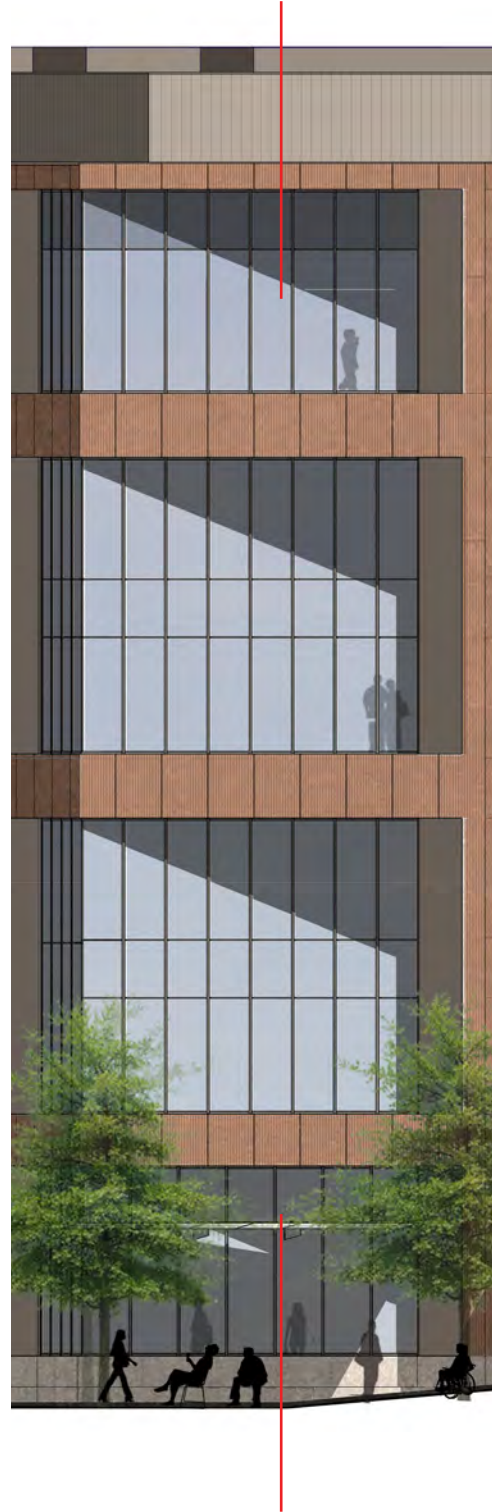


SCALE: 1/16" = 1'-0"

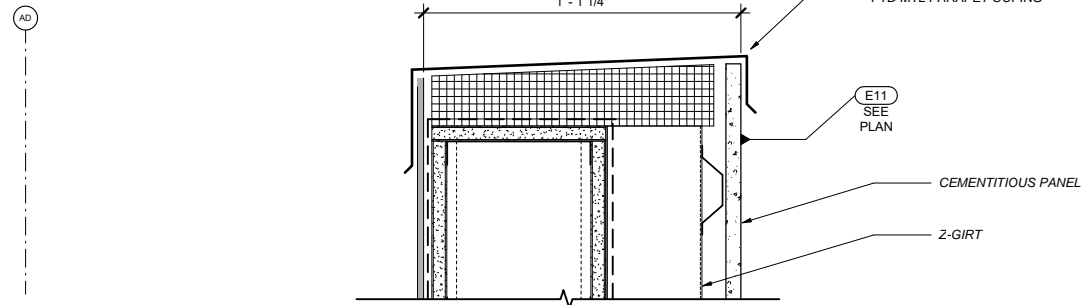


WALL SECTIONS - WEST

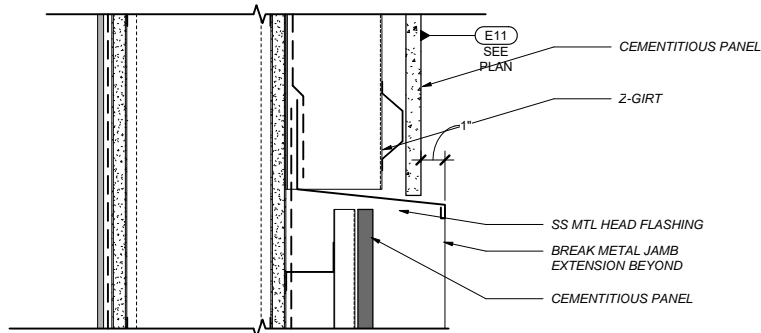
- 1. Library
- 2. Stair
- 3. Maker Space
- 4. Classroom



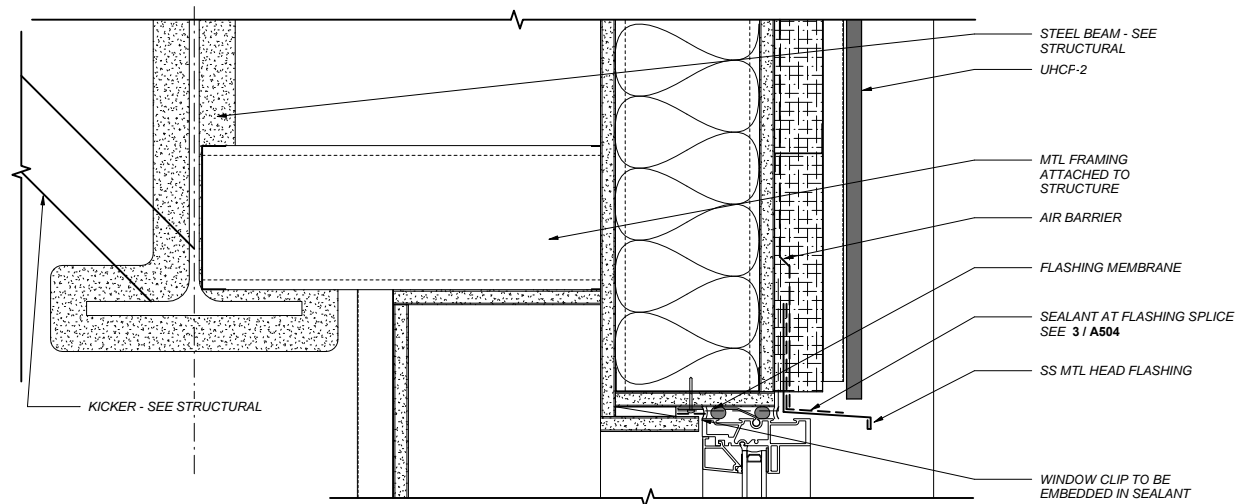
SCALE: 1/16" = 1'-0"



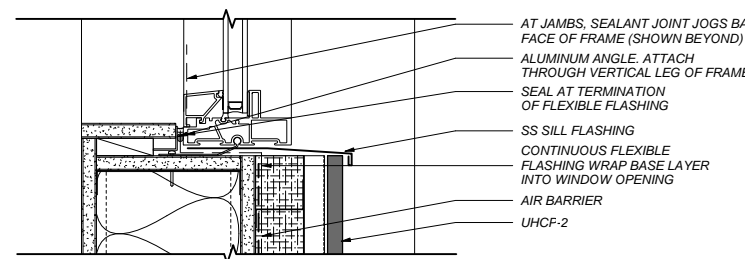
SECTION - PARAPET CAP, TYP  
1 1/2" = 1'-0"



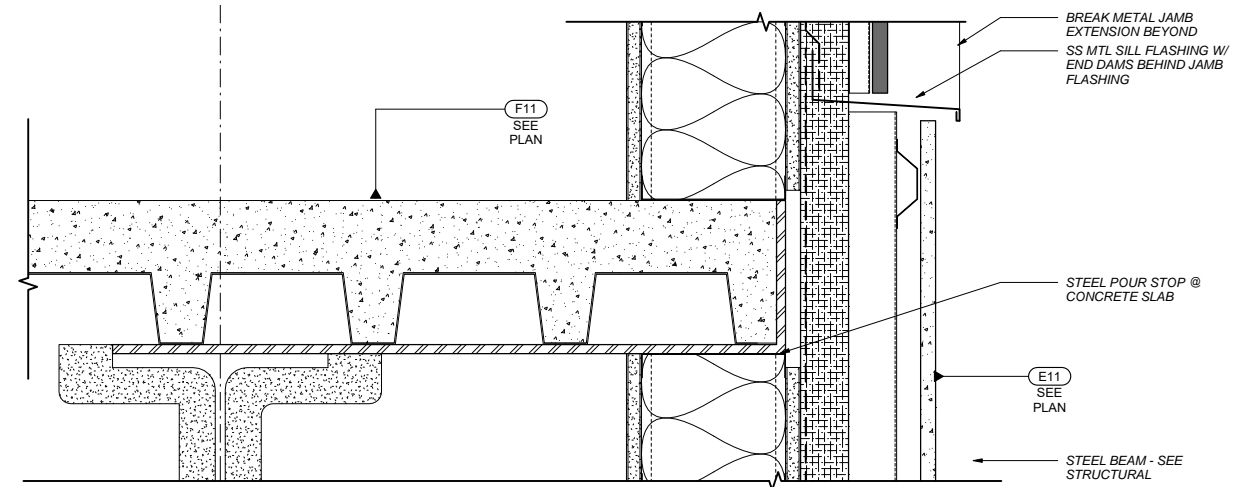
SECTION - CEMENTITIOUS PANEL TRANSITION HEAD AT PARAPET  
1 1/2" = 1'-0"



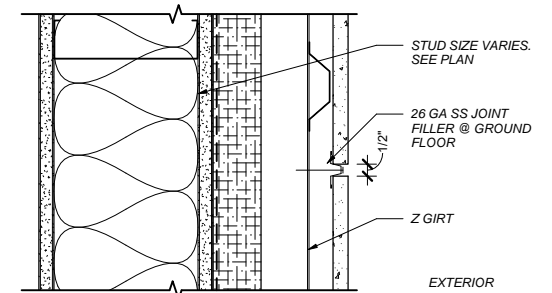
SECTION - PUNCHED WINDOW HEAD AT RECESSED PANEL  
1 1/2" = 1'-0"



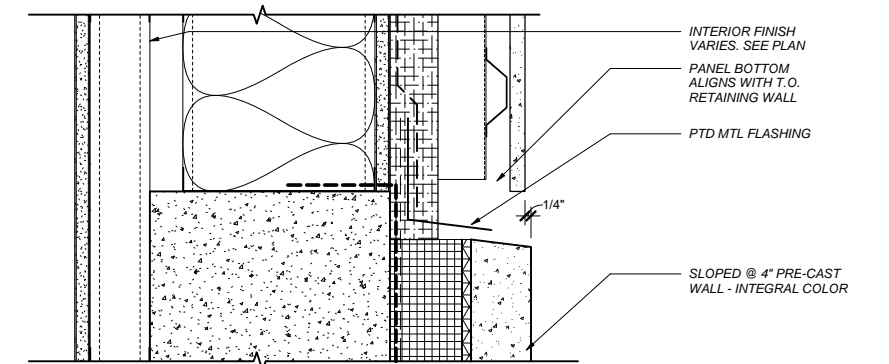
SECTION - PUNCHED WINDOW SILL AT RECESSED PANEL  
1 1/2" = 1'-0"



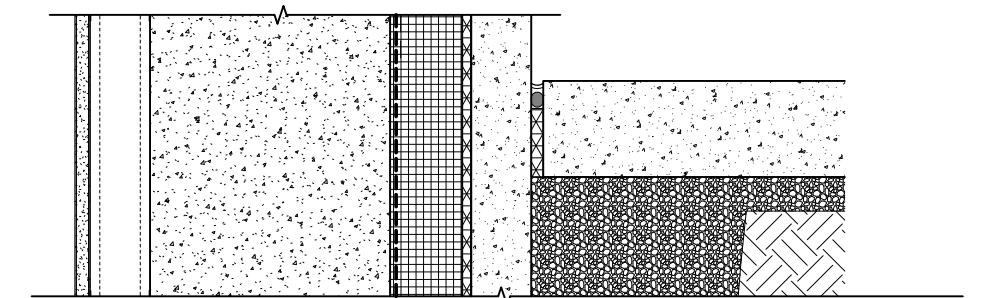
SECTION - RECESS PANEL TRANSITION AT FLOOR PLATE PLATFORM  
1 1/2" = 1'-0"



SECTION 1 1/2" - UHPC PANEL JOINT SECTION  
1 1/2" = 1'-0"

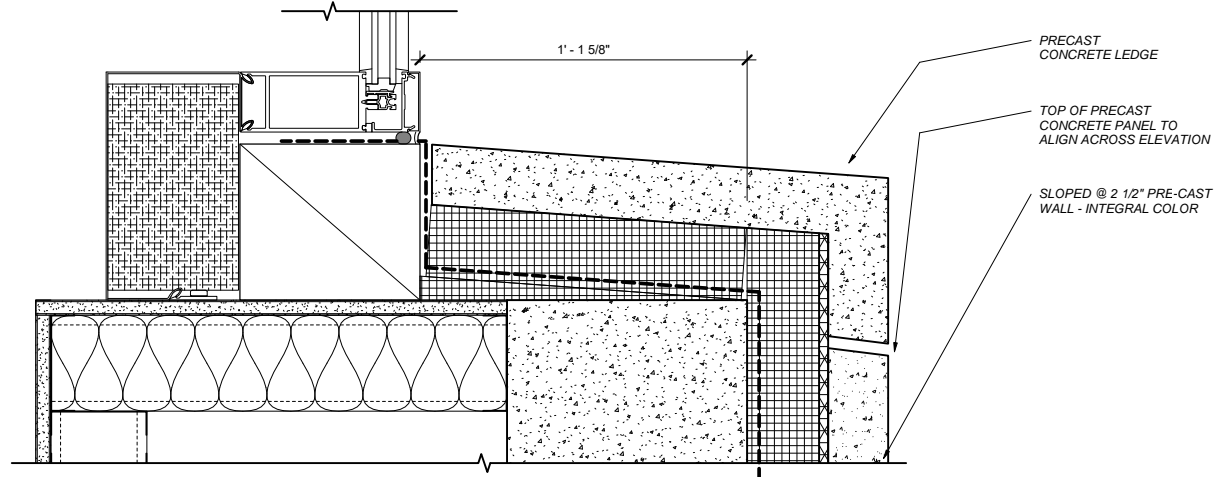


SECTION - PANEL TO PRECAST BASE  
1 1/2" = 1'-0"

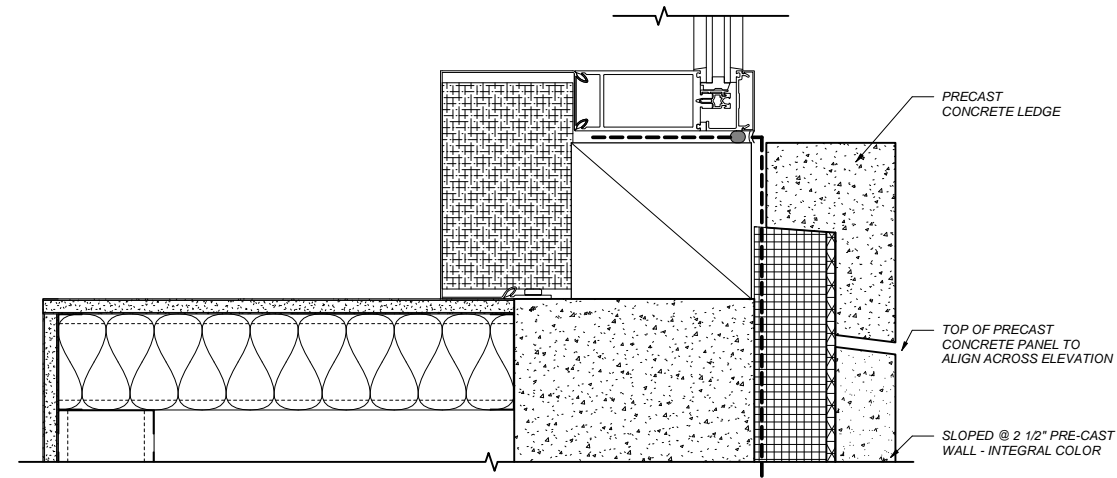


SECTION - PRECAST BASE TO SIDEWALK  
1 1/2" = 1'-0"

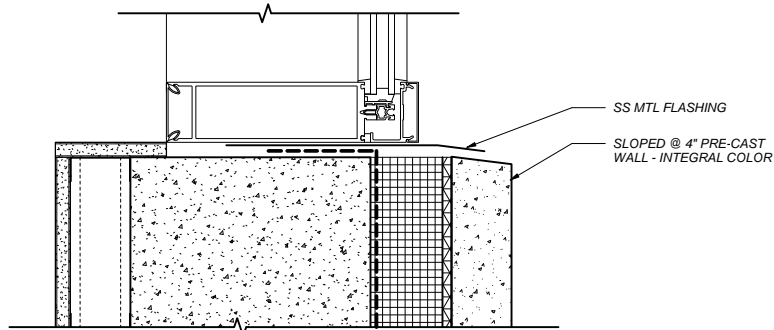
DETAILS



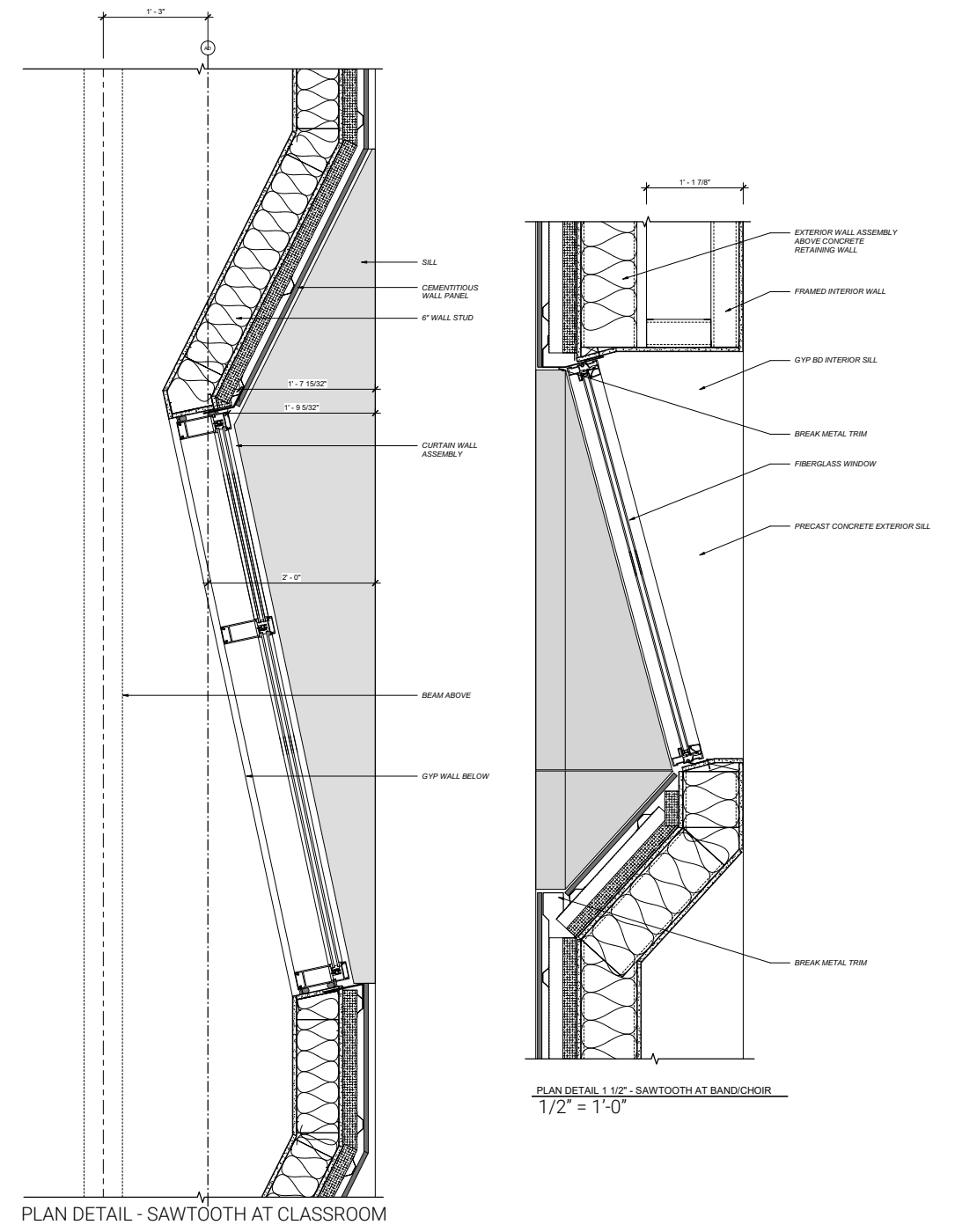
SECTION - BAND ROOM SILL - DEEP  
1 1/2" = 1'-0"



SECTION - BAND ROOM SILL - SHALLOW  
1 1/2" = 1'-0"

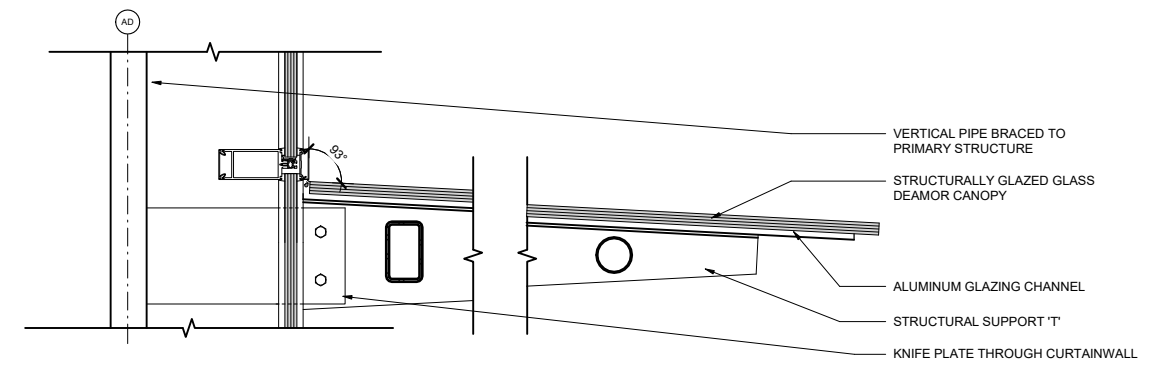


SECTION - CURTAIN WALL SILL TO PRECAST BASE  
1 1/2" = 1'-0"



PLAN DETAIL - SAWTOOTH AT CLASSROOM

1/2" = 1'-0"



GLASS CANOPY  
3/4" = 1'-0"

# MATERIALS

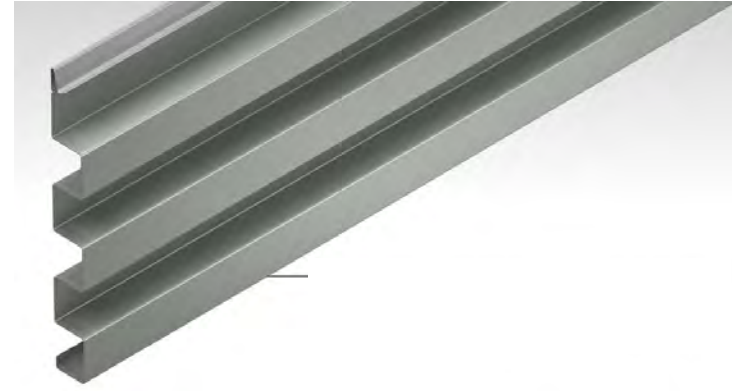
- 1. RIBBED UHPC PANEL IN TERRA COTTA
- 2. ROUGH UHPC PANEL IN SAND
- 3. BOX RIBBED METAL PANEL
- 4. PERFORATED BOX RIBBED PANEL
- 5. DARK GREY ALUMINUM CURTAIN WALL
- 6. DARK GREY FIBERGLASS PUNCHED WINDOWS



1



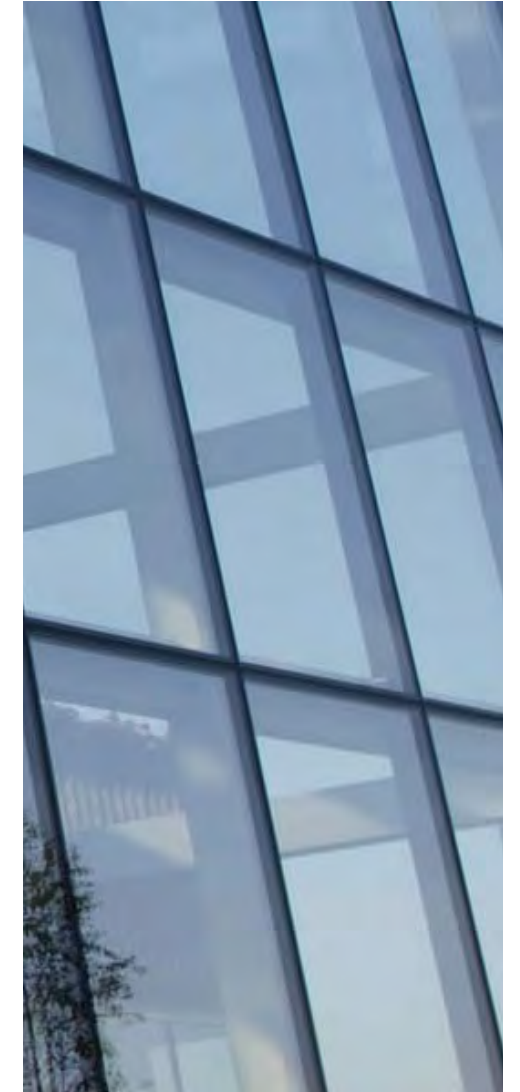
2



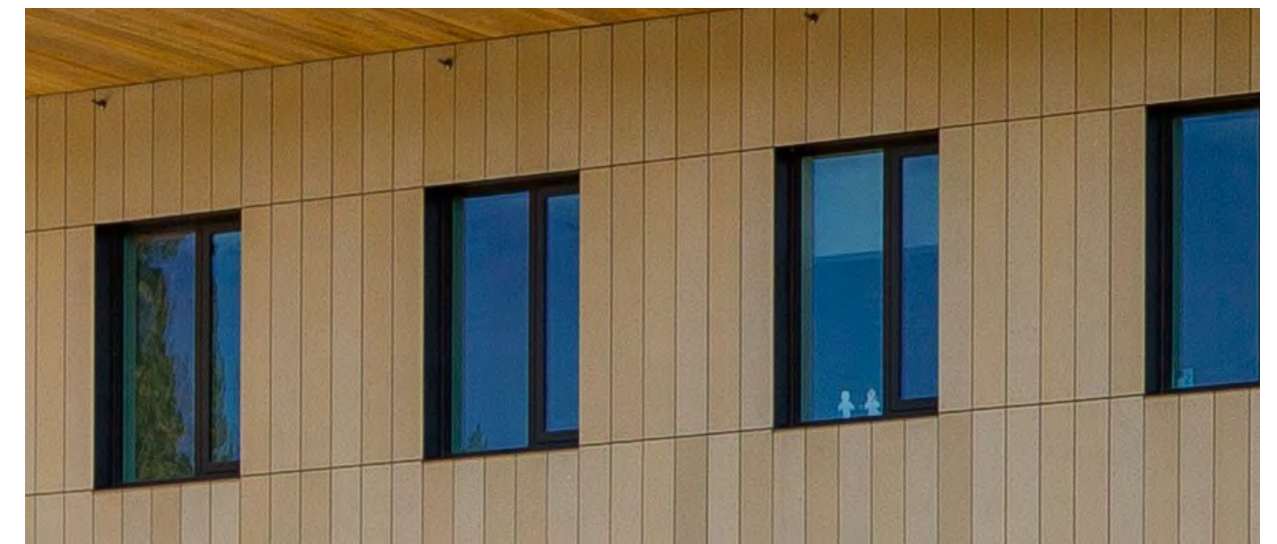
3



4



5



6

We ask for the following adjustments and modifications:

- 33.266.220 Bicycle Parking Standard
- 33.510.215 Required Building Line Standards
- 33.130.242 Transit Street Main Entrance
- 33.510.243 Ecoroof

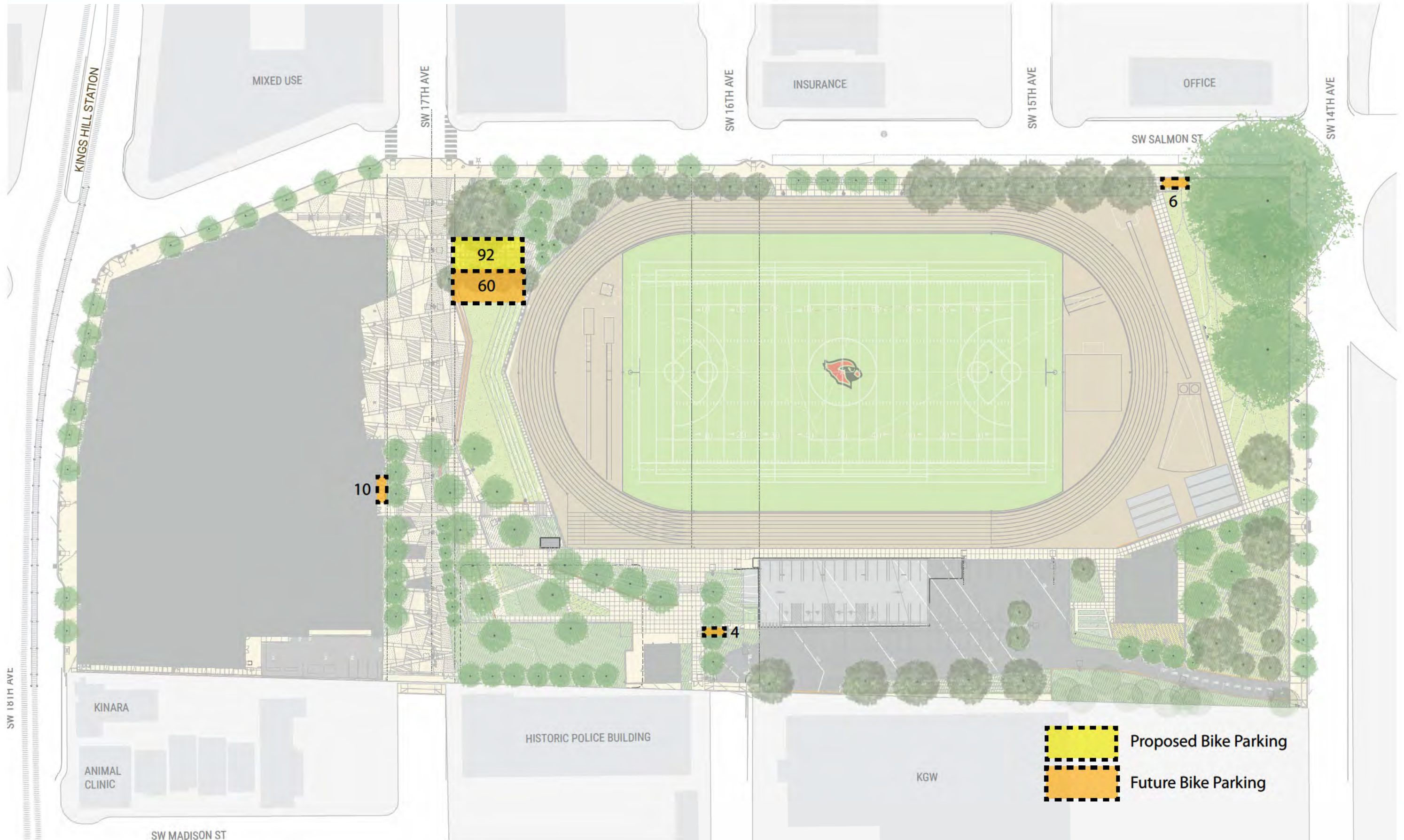


## BICYCLE PARKING STANDARD



- 33.266.220 Bicycle Parking Standard states that a minimum of 4 bicycle parking spaces be provided per classroom.
- This would require  $70 (4) = 280$  bicycle parking spaces
- LHS proposes to provide 92 bicycle parking spaces at building opening (46 covered).
- Identified on the diagram on the following page are an additional 80 bicycle parking spaces that could be provided in the future should needs change.
- Kittelson conducted a bicycle count at the current LHS site.
- There were only 10 bikes parked on campus, one of which was abandoned. This reflects .15 bikes per classroom, rather than the 4 per classroom required by code.
- LHS proposes to provide 1.3 spaces per classroom at building opening with the potential for 2.5 spaces per classroom.

BICYCLE PARKING STANDARD

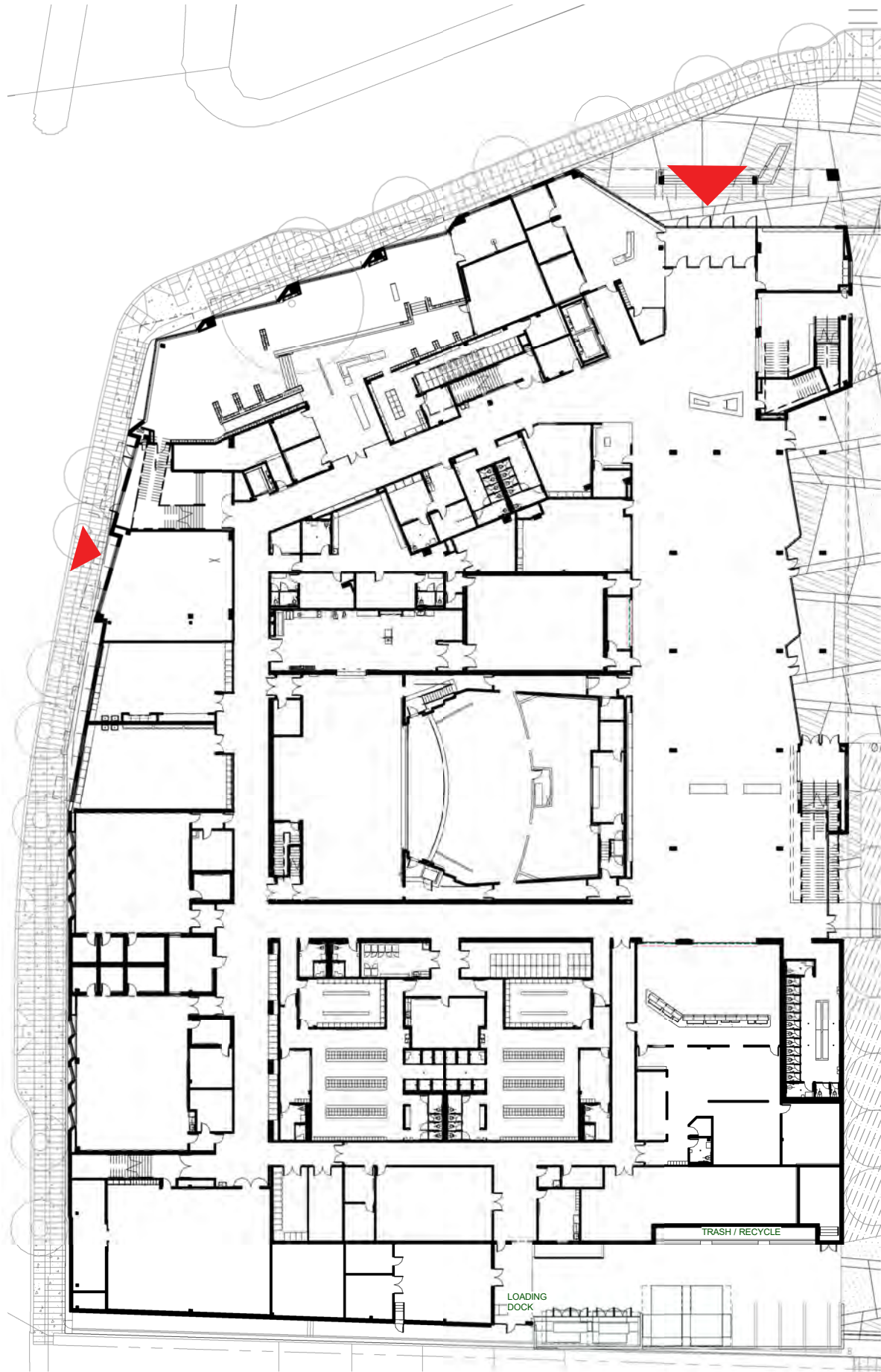


## REQUIRED BUILDING LINE STANDARD



- 33.510.215 Required Building Line Standards state that the building must extend to the street lot line along at least 75% of the lot line.
- Because of the nature of the site and programmatic requirements of a school, this standard will not be met along SW Salmon and SW 14th.
- Along SW Salmon street, in lieu of a building creating the edge along the sidewalk LHS proposes a series of large conifers on the school property with a break midway through the block. This break allows for an overlook to the athletic field and track at the 50 yard line. This active use along SW Salmon will engage the pedestrian as well as provide an edge to the sidewalk.
- The corner of SW Salmon and SW 14th is anchored by a large heritage tree.
- LHS proposes not only to save the heritage tree on the corner, but the two trees to the south along SW 14th with a garden space anchoring the southern end of SW 14th on the site.

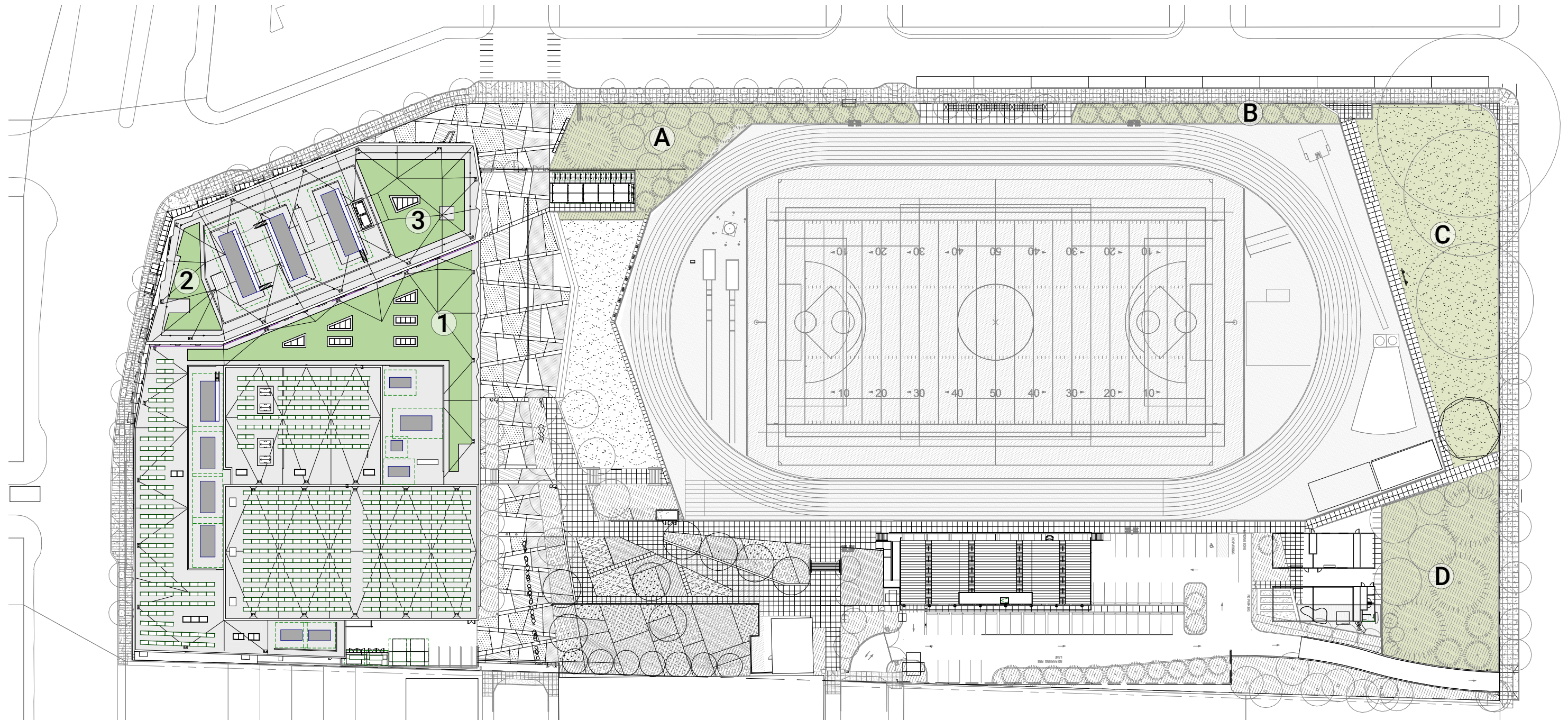
## TRANSIT STREET MAIN ENTRANCE



- 33.130.242 Transit Street Main Entrance states that the entrance to the building must be within 25 feet of a transit street.
- SW 18th Avenue is classified as Regional Transit / Major Transit Priority, and SW Salmon Street is classified as Major Transit Priority in the Portland 2035 Transportation System Plan.
- Security concerns require that the proposed LHS building has a single main entrance on SW Salmon Street at SW 17th. This location allows for easy access to buses that stop along SW Salmon Street and is adjacent to the site amenities of the athletic fields. This location also allows for a continuous flow from the main entrance to the commons.
- The main entrance will remain unlocked during the school day. After first bell, visitors must enter into the vestibule and check in at attendance before continuing into the school.
- There is a door into the Health Clinic on SW 18th Street. This door will also remain unlocked during business hours.
- No other doors will remain unlocked due to security concerns for the school.
- Additionally, there will not be an entrance every 200 feet along SW 18th Street. Again, access to the school must be limited to one main entrance in order to provide security.

PROPOSED ECOROOF MODIFICATION

• Refer to pages 13-16 of the narrative for explanation of the ecoroof modification.



ECOROOF PROPOSED - BUILDING

ECOROOF REPLACEMENT - LANDSCAPE

MAIN BUILDING - TOTAL ROOF AREA 98,029 sf

AREA 1 9,934 sf

AREA 2 1,862 sf

AREA 3 4,447 sf

TOTAL BUILDING 16,243 sf

AREA A 10,555 sf

AREA B 3,176 sf

AREA C 20,972 sf

AREA D 12,747 sf

TOTAL LANDSCAPE 47,450 sf

TOTAL BUILDING 16,243 sf

**REQUIRED GREEN ROOF (60%) 58,817 sf**

**PROVIDED COMBINED 63,693 sf**

# BORA

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