

CENTER FOR SUSTAINABLE CONSTRUCTION

BALTIMORE, MARYLAND
GRADUATE SUBMISSION - STUDIO PROJECT

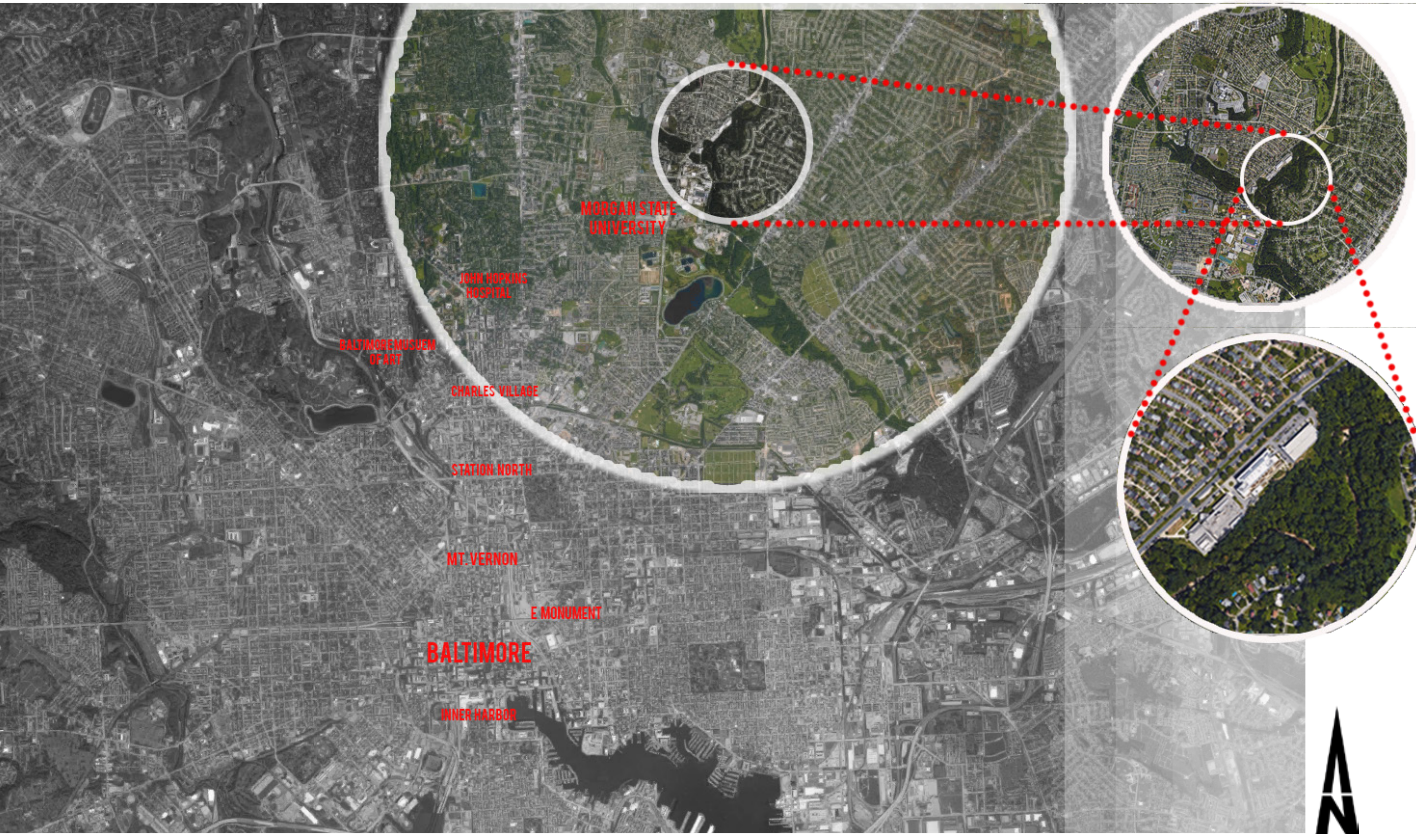
PART I

ALIGN AND INFILTRATE

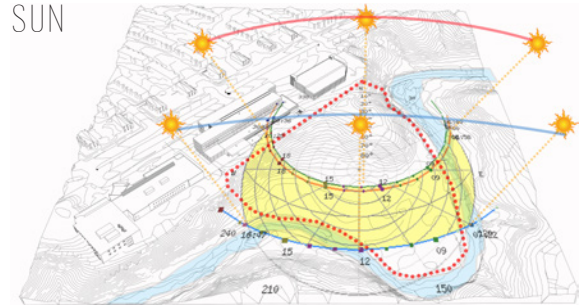
The center for sustainable construction is an extension of the existing architectural building at a state university campus. By cutting and filling, the design of the new structure addresses site grading and topographic issues. Bio-retention cells are introduced to address flood water run off before slowly connecting to the existing Herring run stream. The design is approximately a 60,000sf space that houses major programs such as a 6000sf auditorium, 4000sf residential for students and visiting lecturers, and 14,000sf of studio space and a 2000sf student lounge; which is the focal point of the design as it is elevated above the flood plain held by concrete column.



SITE LOCATION AND ANALYSIS



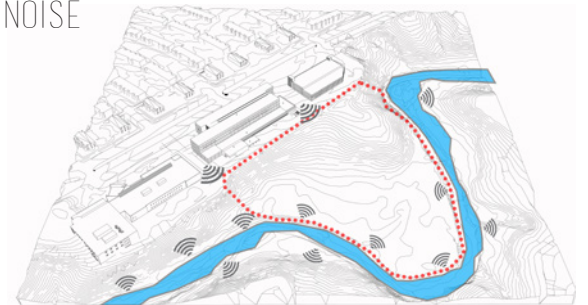
SUN



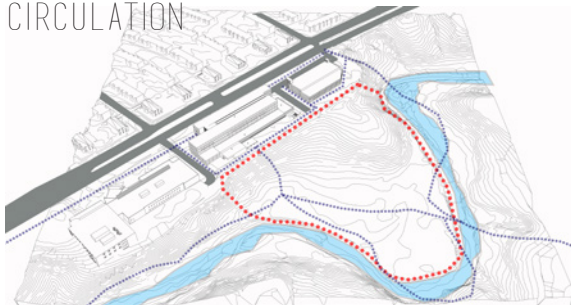
NATURAL FEATURES



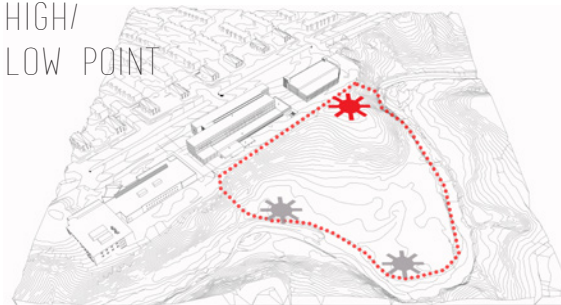
NOISE



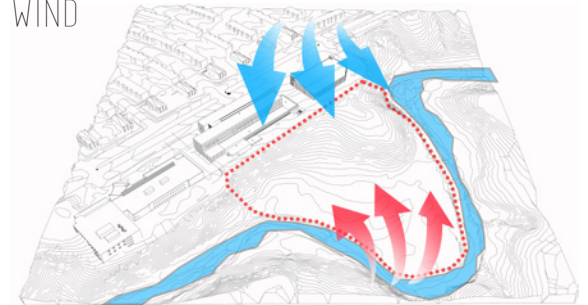
CIRCULATION



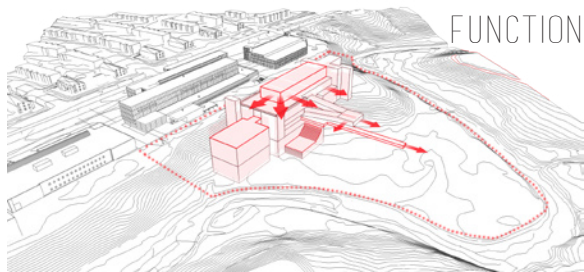
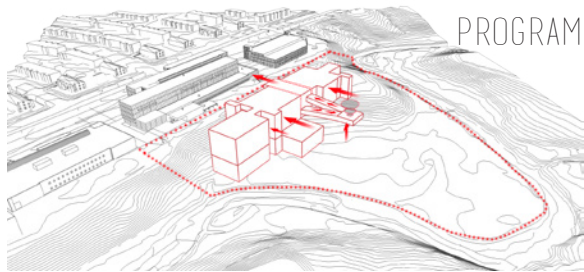
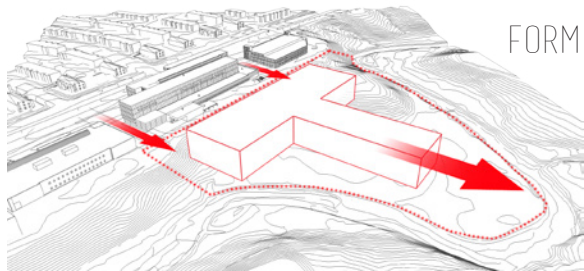
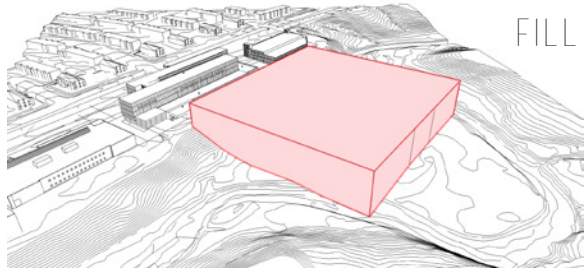
HIGH/LOW POINT



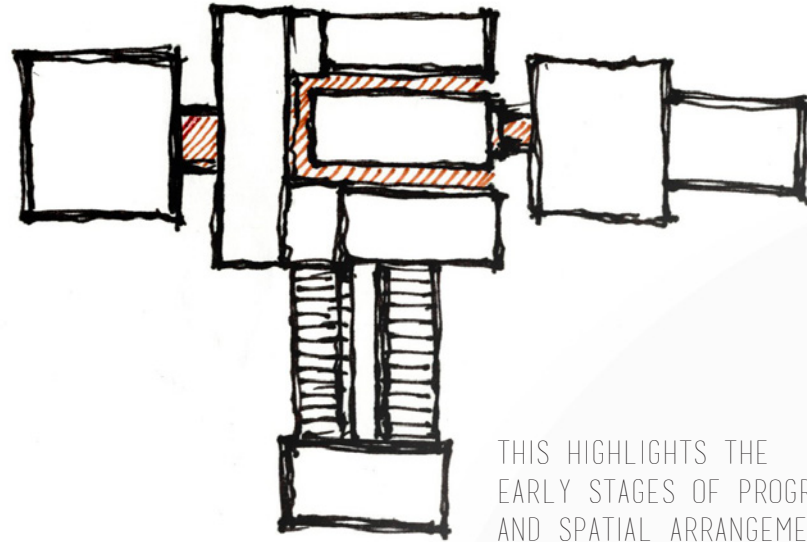
WIND



PROCESS DIAGRAMS AND SKETCHES

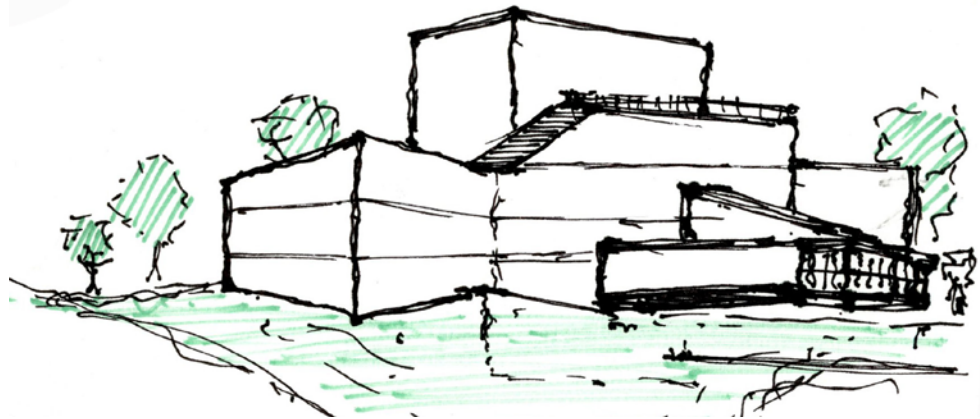


INITIAL SKETCH



THIS HIGHLIGHTS THE EARLY STAGES OF PROGRAM AND SPATIAL ARRANGEMENT.

EARLY PERSPECTIVE SKETCH



THIS ENABLES A GENERAL UNDERSTANDING OF THE OVERALL COMPOSITION OF CONCEPT.

ANALYTIC PROGRAM DIAGRAM

PRIVATE

4TH FLOOR

STUDIO
OUTDOOR ROOF SPACE
LECTURERS HOUSING

PRIVATE

3RD FLOOR

STUDIO
JURY ROOMS
STUDENT HOUSING
FACULTY OFFICES
EXHIBITION RAMP FROM LOUNGE

SEMI-PRIVATE

2ND FLOOR

FACULTY OFFICES
CLASSROOMS
LIBRARY
AUDITORIUM
EXHIBITION RAMP TO LOUNGE

PUBLIC

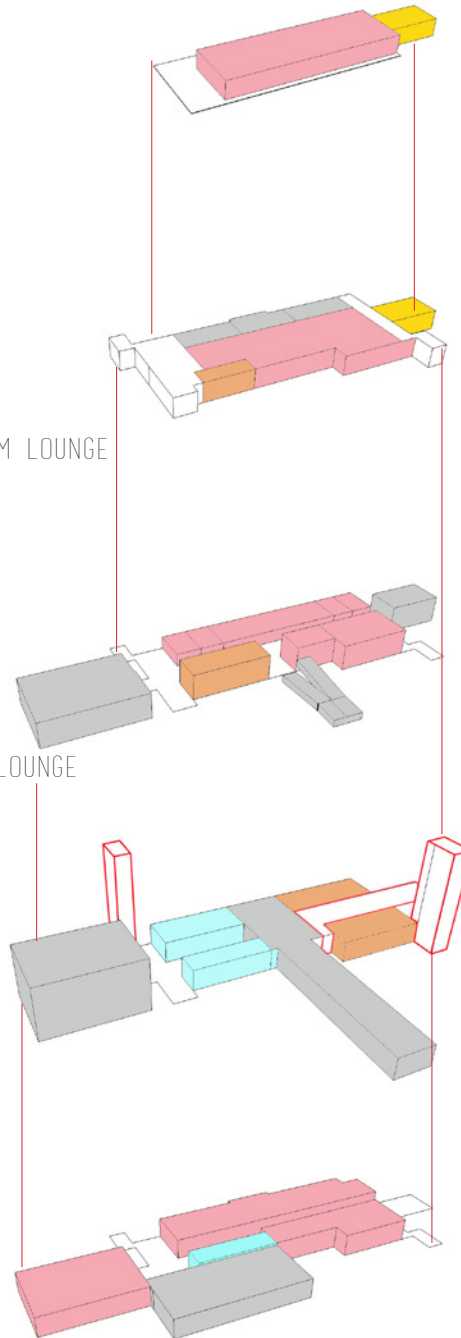
1ST FLOOR

ENTRY VESTIBULE
ADMINISTRATIVE
ACADEMIC ARCHIVE
CAFETERIA
KITCHEN
SERVICES

SEMI-PRIVATE

BASEMENT

LABORATORY SPACES
SUPPLY SHOP
AMPHITHEATRE



ACADEMIC SPACES
STUDIO
CLASSES
LIBRARY
LABORATORIES

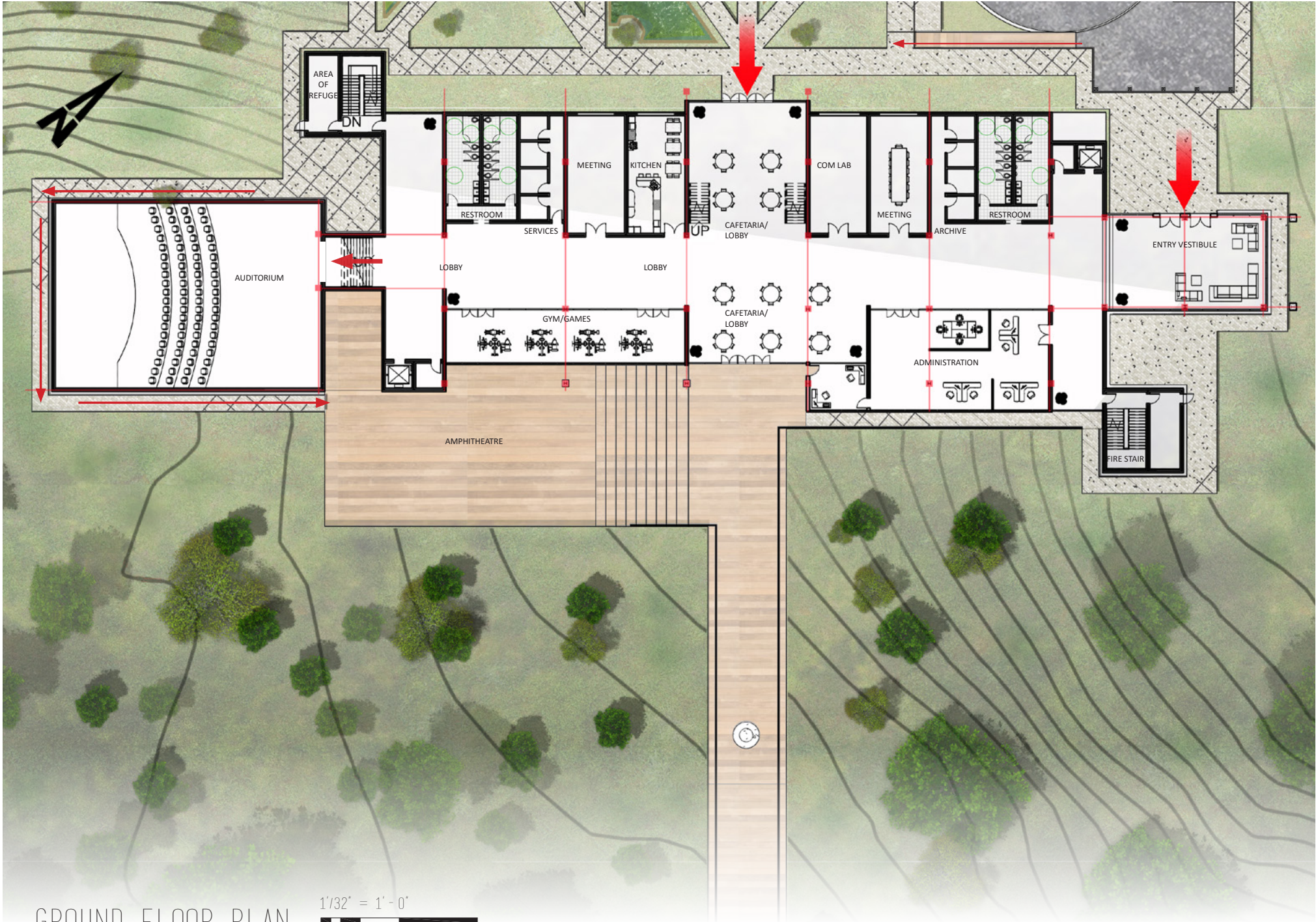
RESIDENTIAL SPACES
STUDENT HOUSING
VISITING LECTURERS HOUSING

GATHERING SPACES
AMPHITHEATER
AUDITORIUM
EXHIBITION RAMP
STUDENT LOUNGE
JURY SPACE

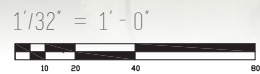
SERVICES

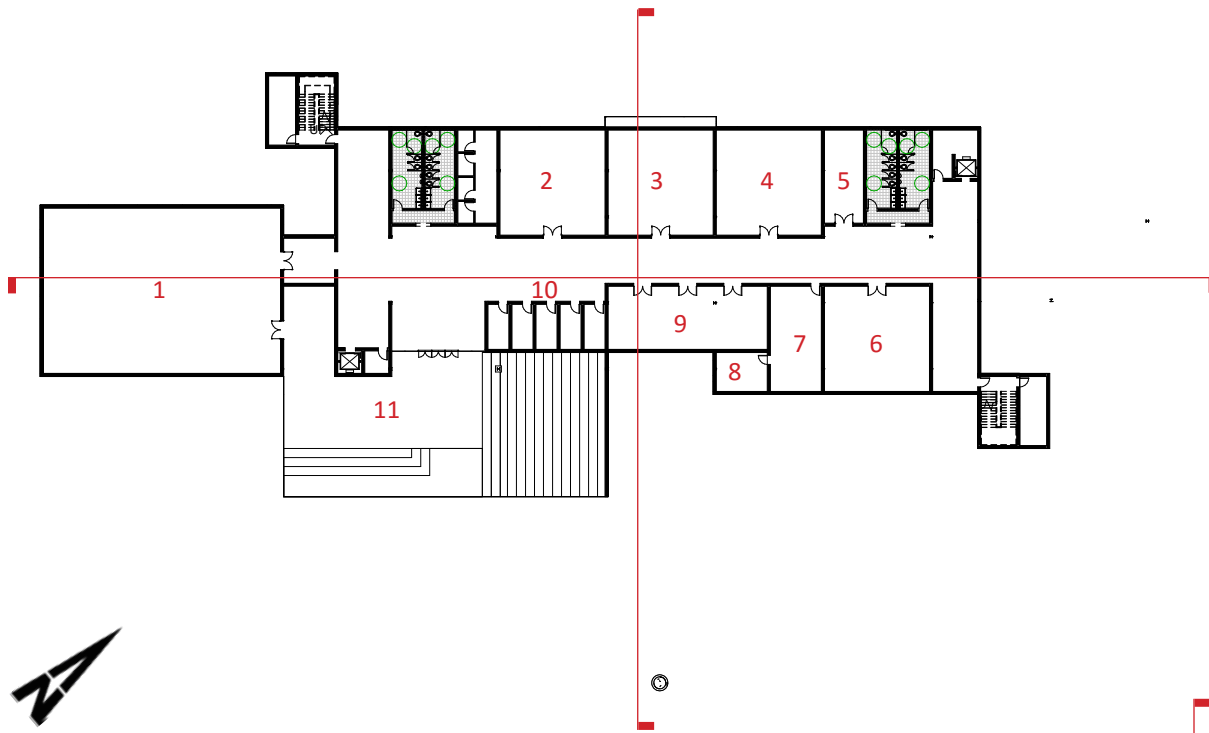
CIRCULATION
FIRE STAIR EXIT

FACULTY SPACES
ADMINISTRATIVE
FACULTY OFFICES



GROUND FLOOR PLAN





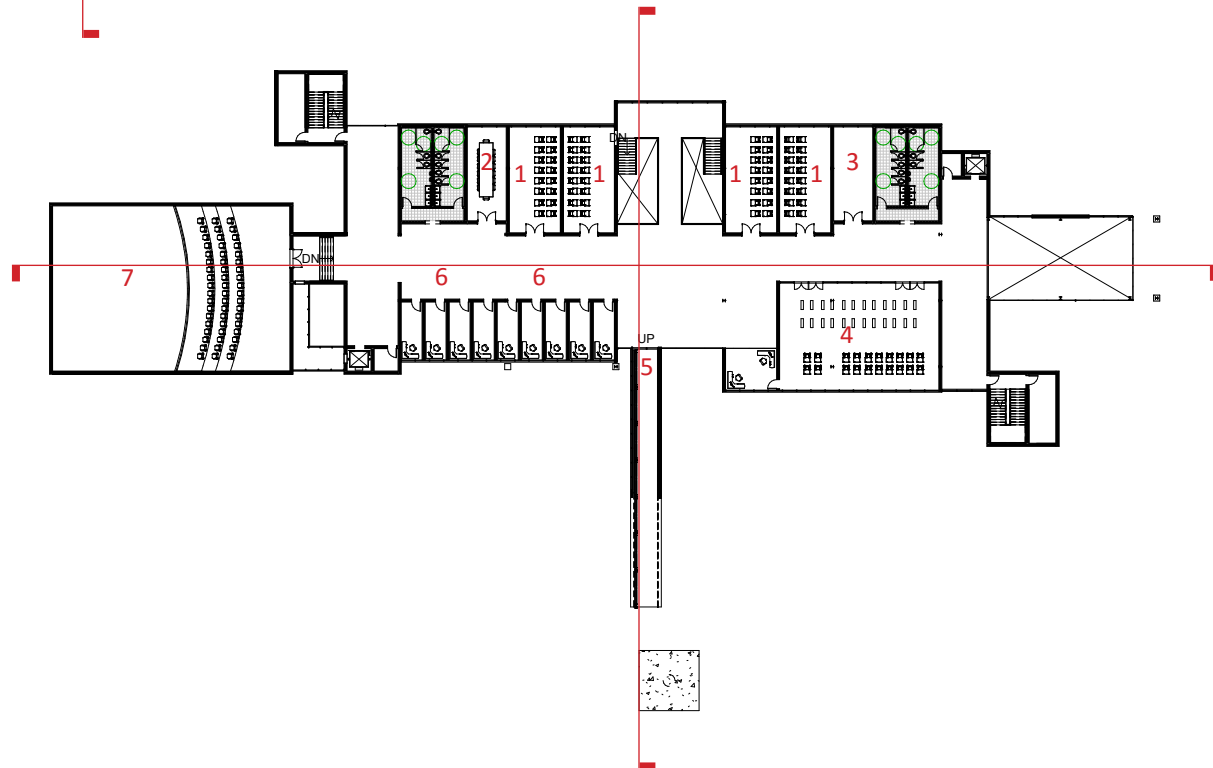
BASEMENT

- 1 RESEARCH LAB
- 2 METAL LAB.
- 3 GNC LAB.
- 4 DIGITAL LAB.
- 5 MATERIAL LIBRARY
- 6 WOOD LAB.
- 7 SHOP SUPPLY
- 8 OFFICE
- 9 MINI RESEARCH LAB
- 10 SERVICES
- 11 AMPHITHEATRE



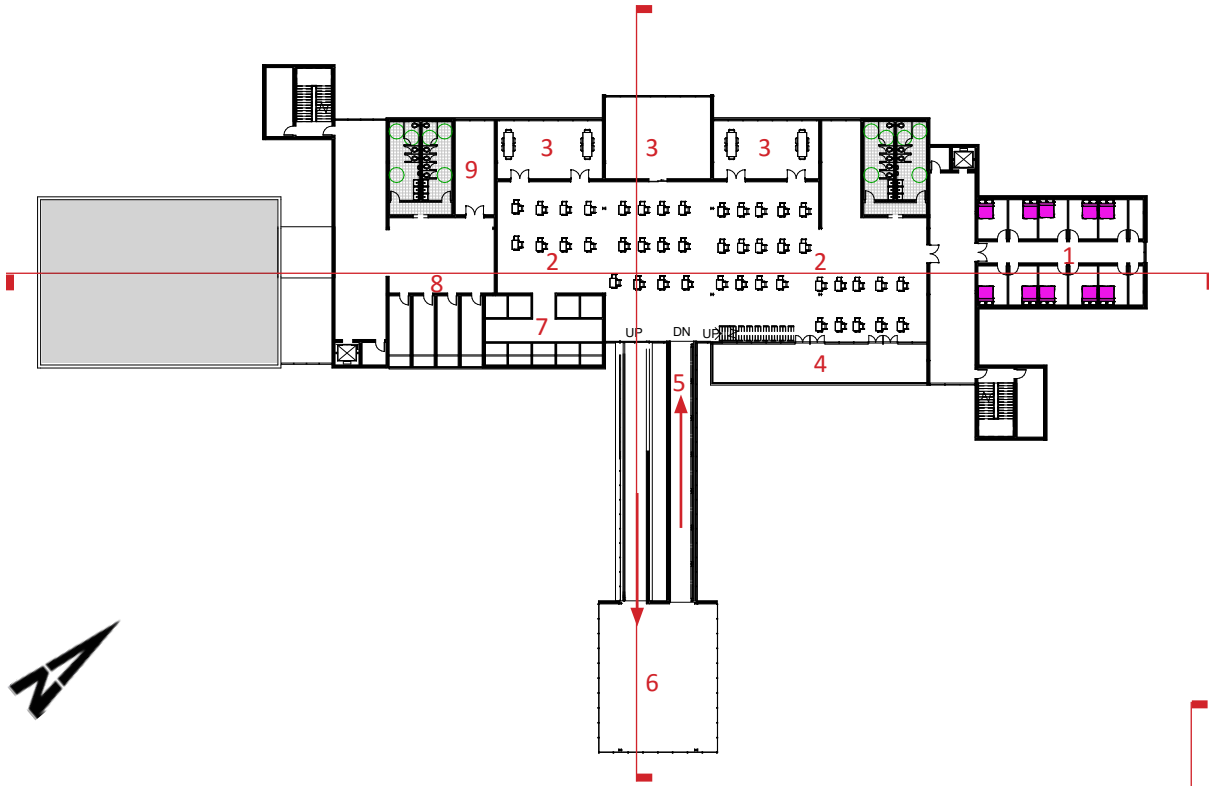
2ND FLOOR

- 1 CLASSROOM
- 2 MEETING
- 3 CONFERENCE
- 4 LIBRARY
- 5 EXHIBITION RAMP
- 6 FACULTY OFFICES
- 7 AUDITORIUM
- 8 OFFICE



PLANS 1'/64" = 1' - 0"



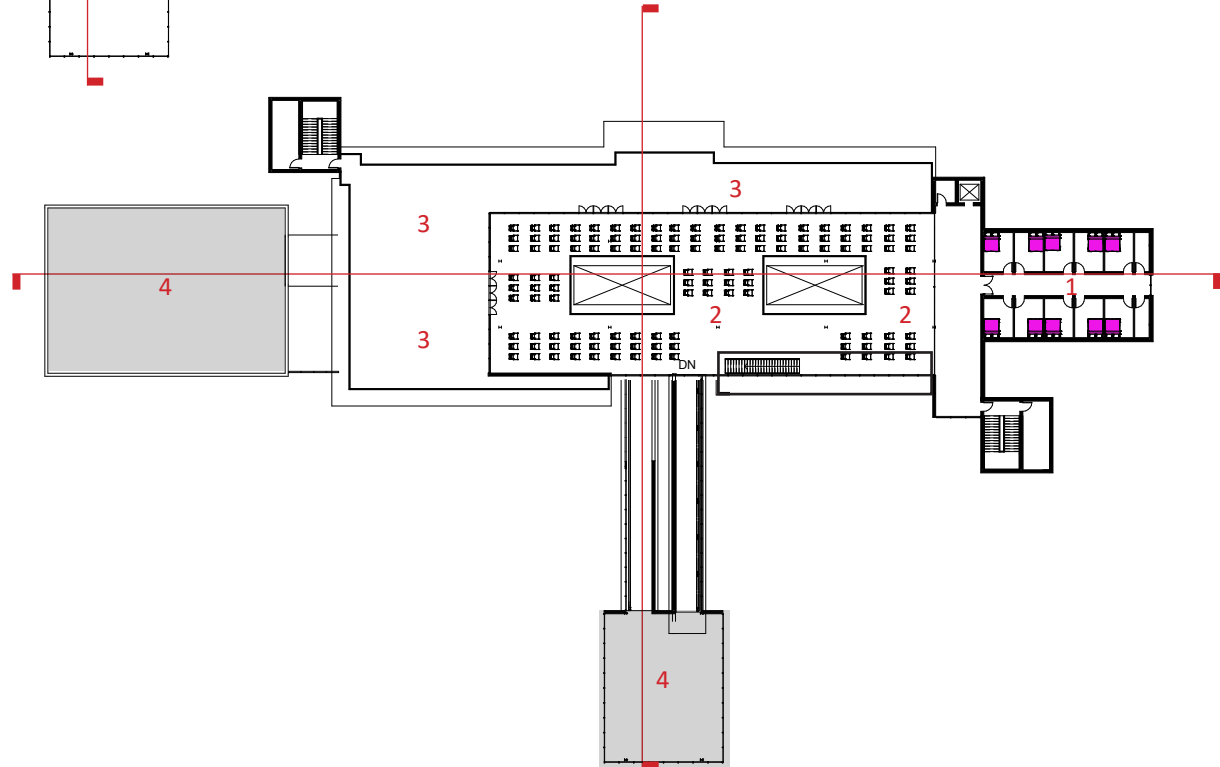


3RD FLOOR

- 1 STUDENT HOUSING
- 2 STUDIO
- 3 JURY ROOMS
- 4 PATIO - BALCONY
- 5 EXHIBITION RAMP
- 6 STUDENT LOUNGE
- 7 STUDENT LOCKER
- 8 OFFICES
- 9 SERVICES

4TH FLOOR

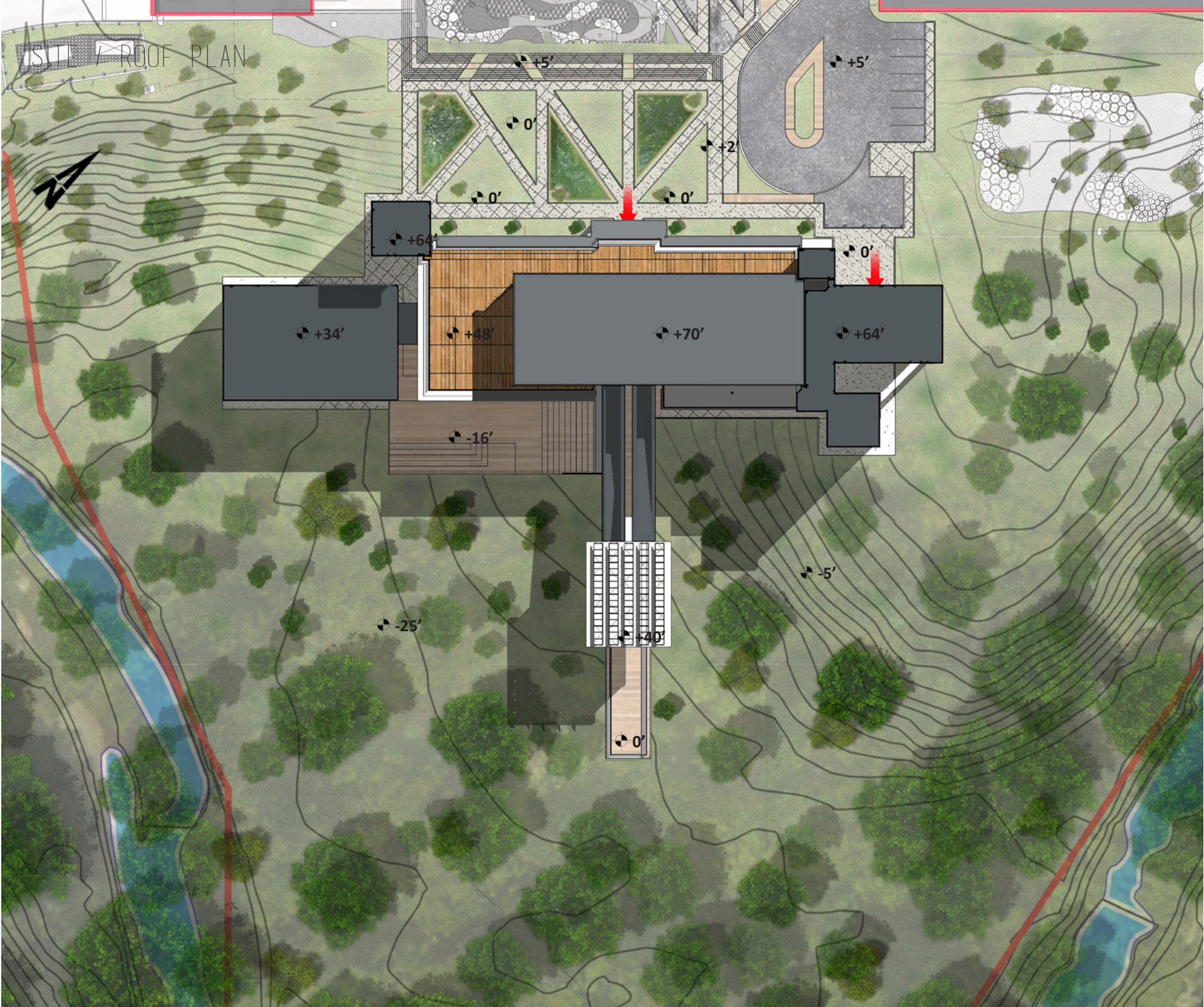
- 1 VISITOR'S HOUSING
- 2 STUDIO
- 3 PATIO - BALCONY
- 4 ROOF BELOW



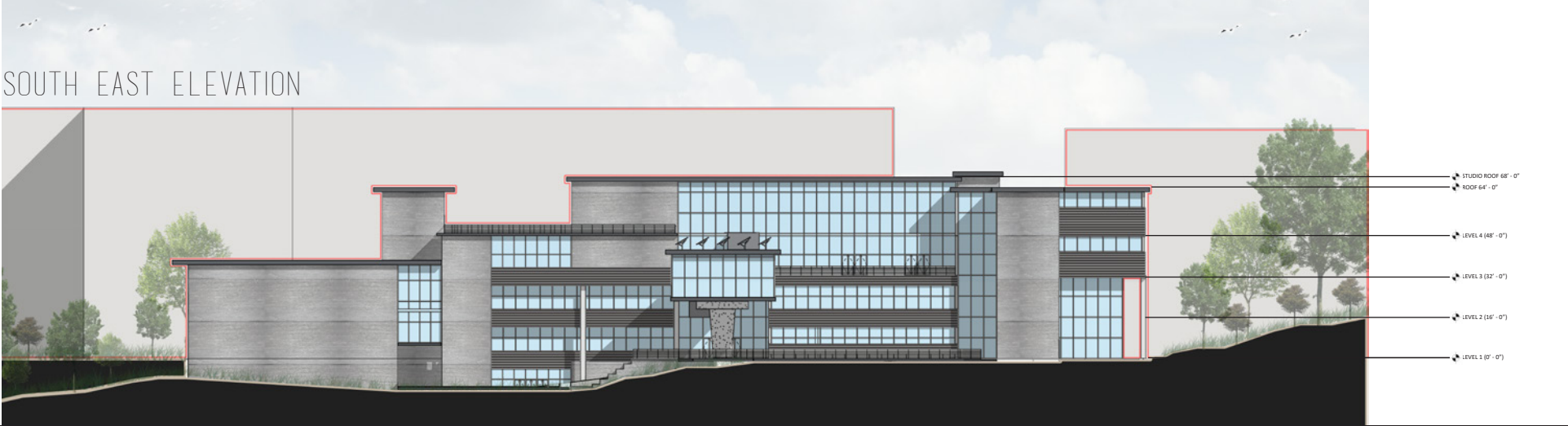
PLANS 1'/64" = 1' - 0"



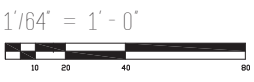
STILL ROOF PLAN



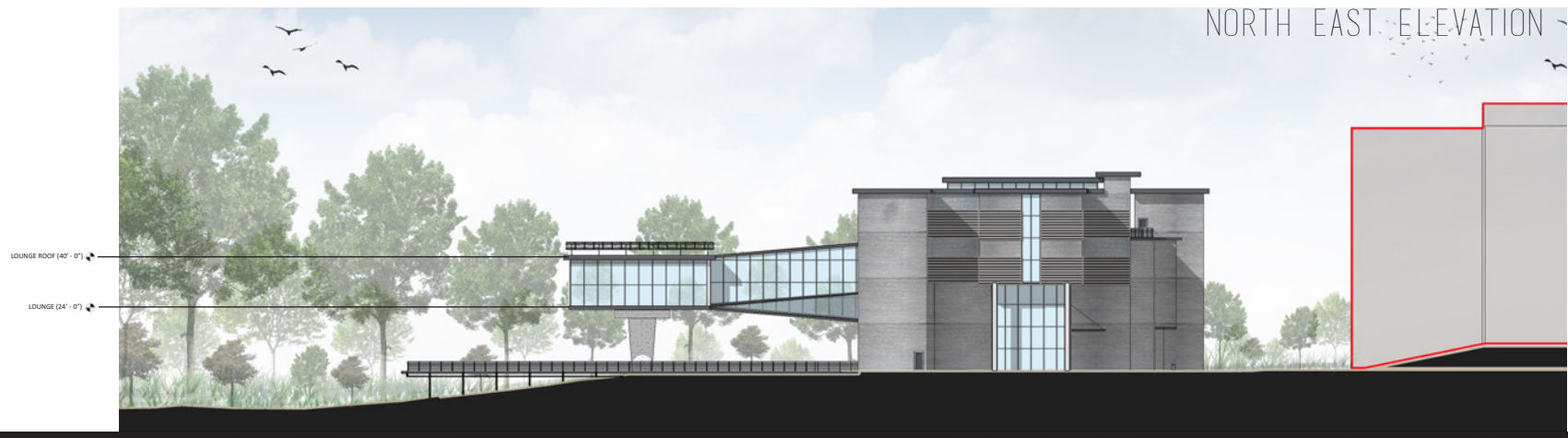
ELEVATION / SECTION



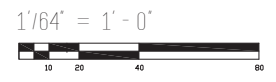
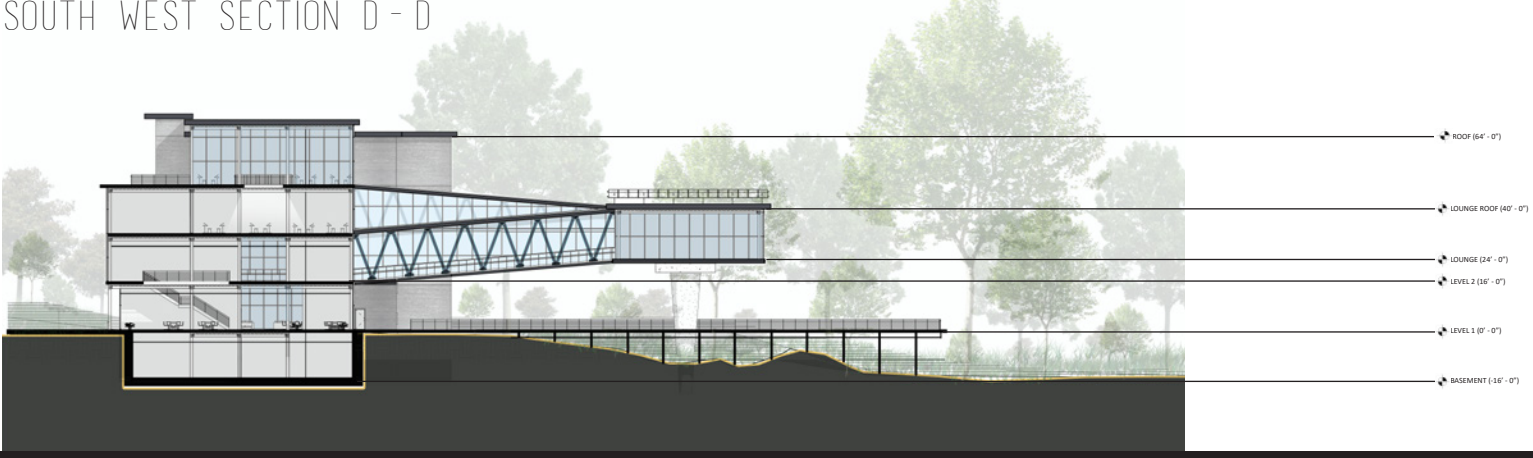
SOUTH EAST SECTION A - A



ELEVATION / SECTION



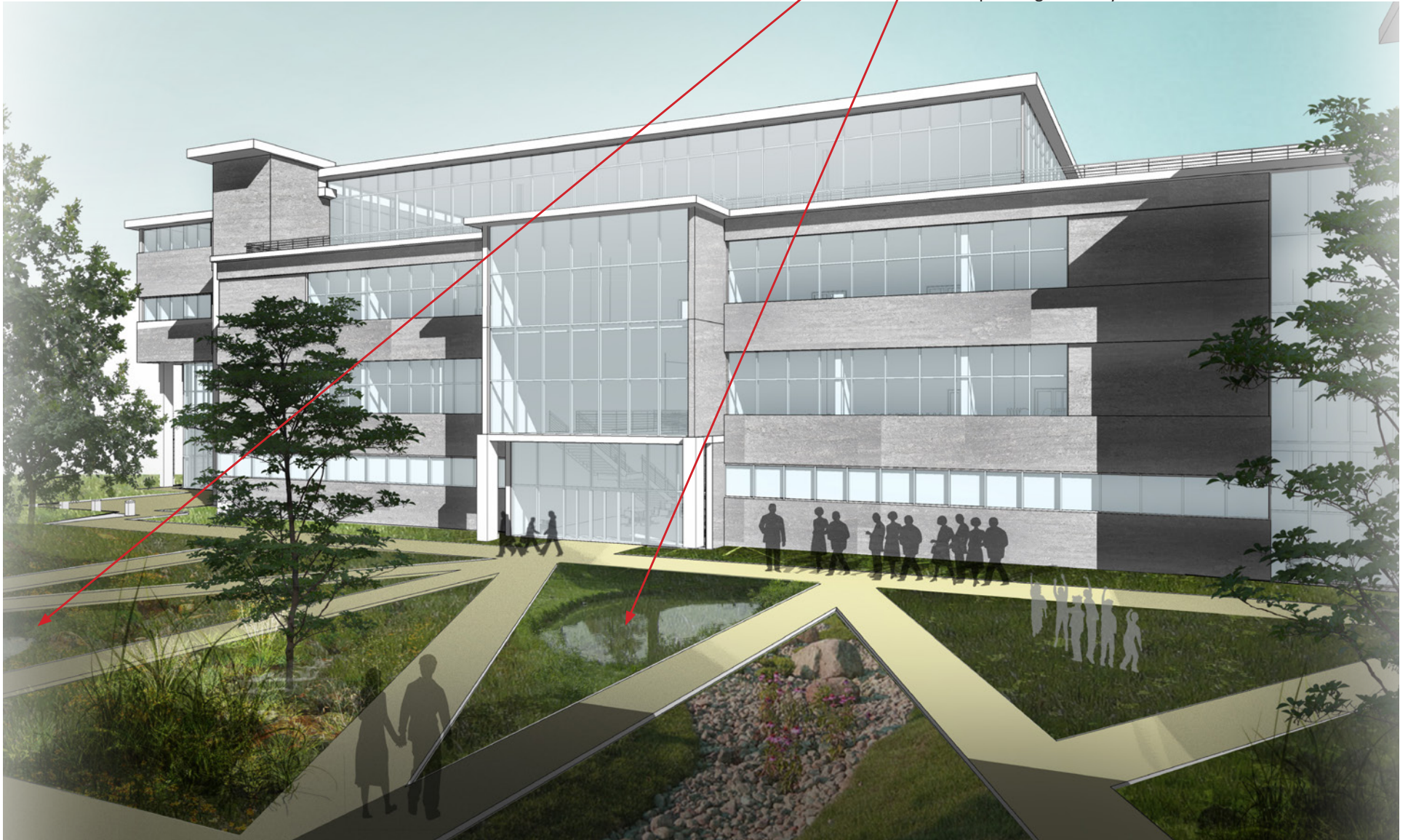
SOUTH WEST SECTION D - D



PERSPECTIVE - NORTH WEST

BIORETENTION POOL

Bio-retention cell captures and holds back storm water from impervious foot paths across the piazza. It increases urban green space and improved life quality, suitable temperature reduction and aesthetically pleasing to the eyes.

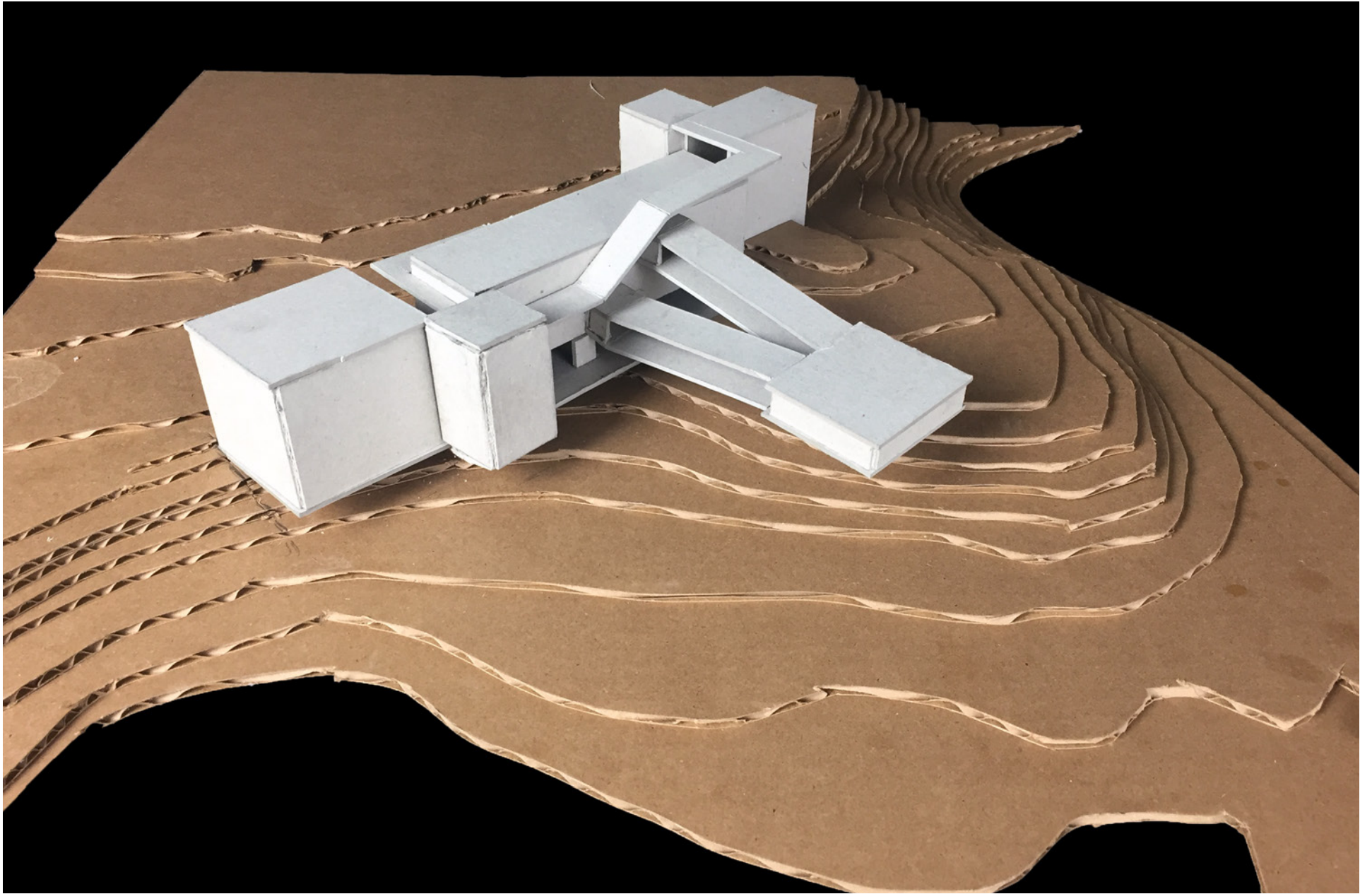


PERSPECTIVE - SOUTH WEST

Views from the extended bridge facing the landscape and the herring run stream



STUDY MODEL



FINAL MASS MODEL

