



ANTHONY HALL

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College of Architecture and Planning

Ball State University

SITE / CONTEXT

Location

2501 N. Oakwood
Ave

Muncie, IN.
47304

Site

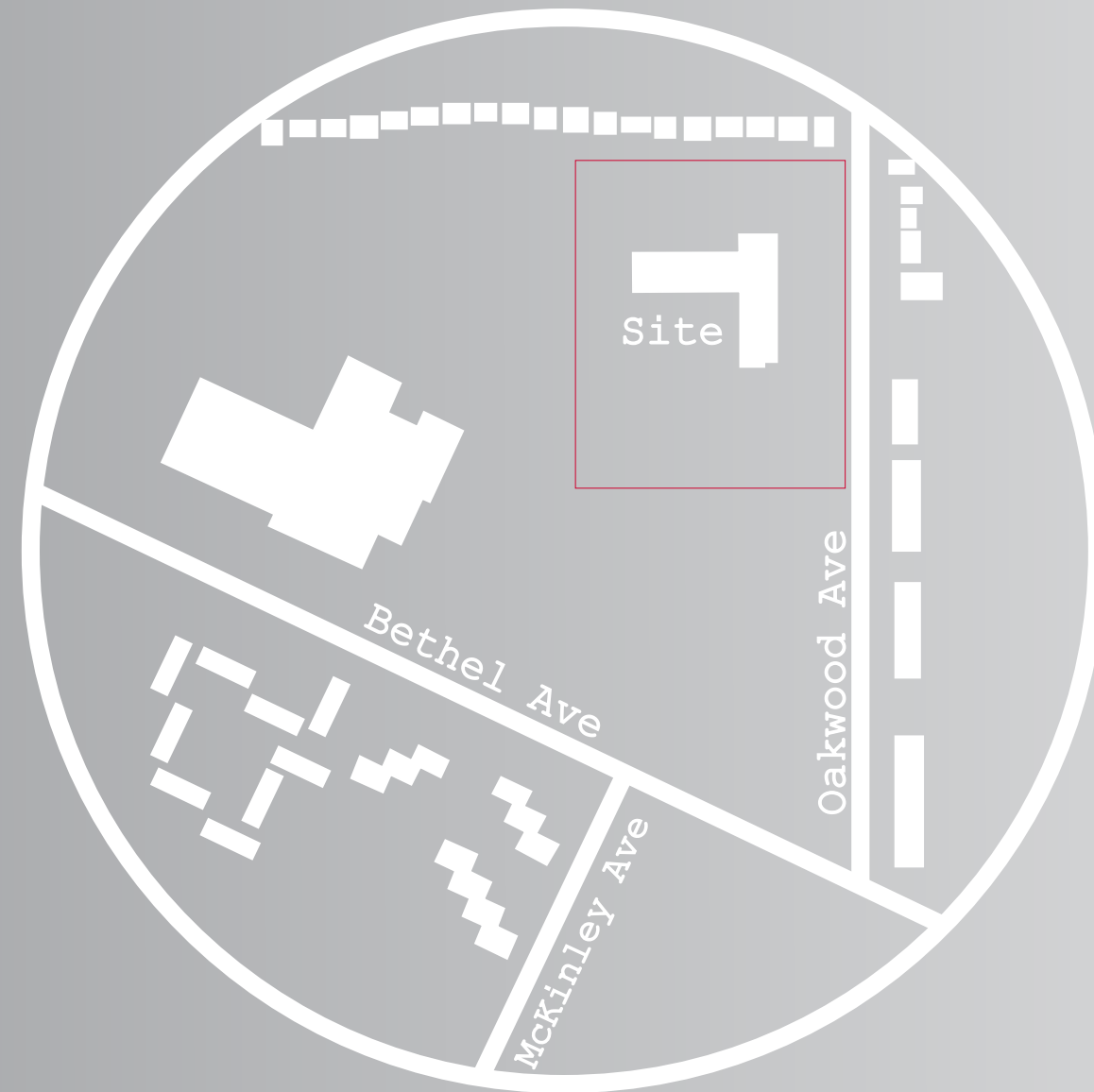
Approx. 10 Acres

Street Access on
Oakwood Ave

Neighborhoods to
North and East

Ball State
Campus to South
and West

Surrounded by
Muncie School
Distric Property



CONCEPT

Project Overview

Adaptive Reuse
of the Anthony
School Building
as a Residence
Hall for the
University

Building Specs

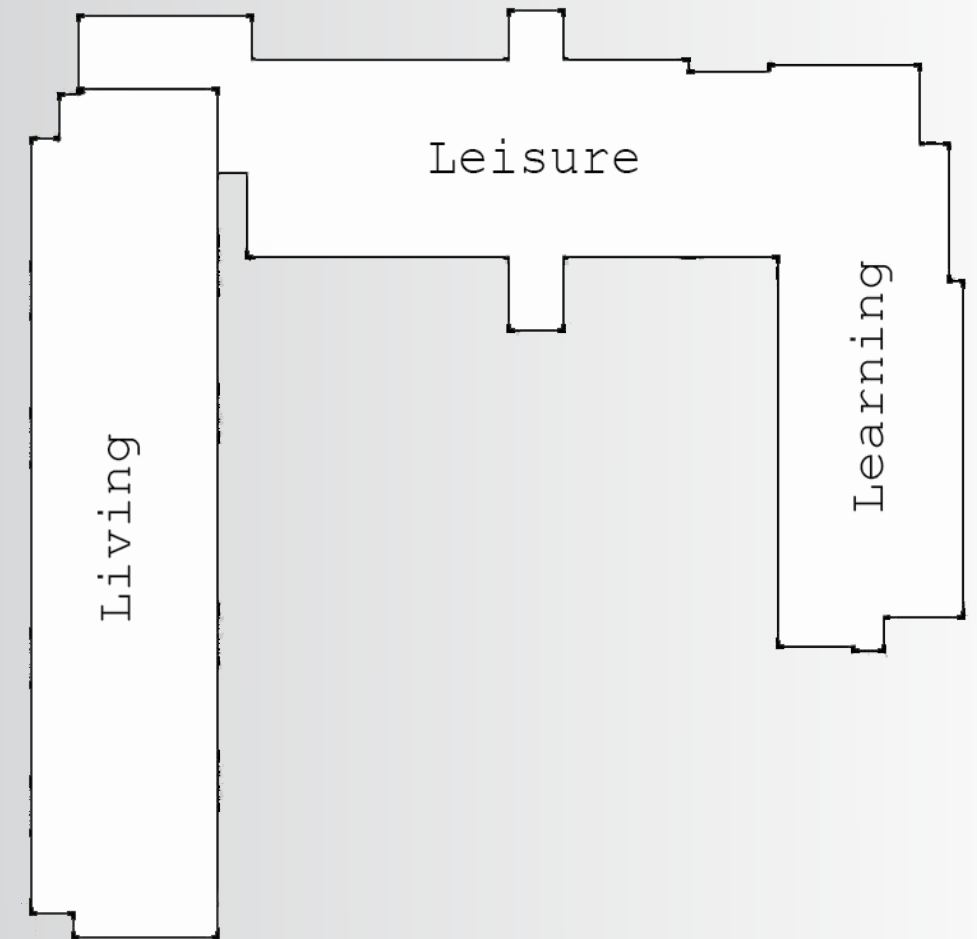
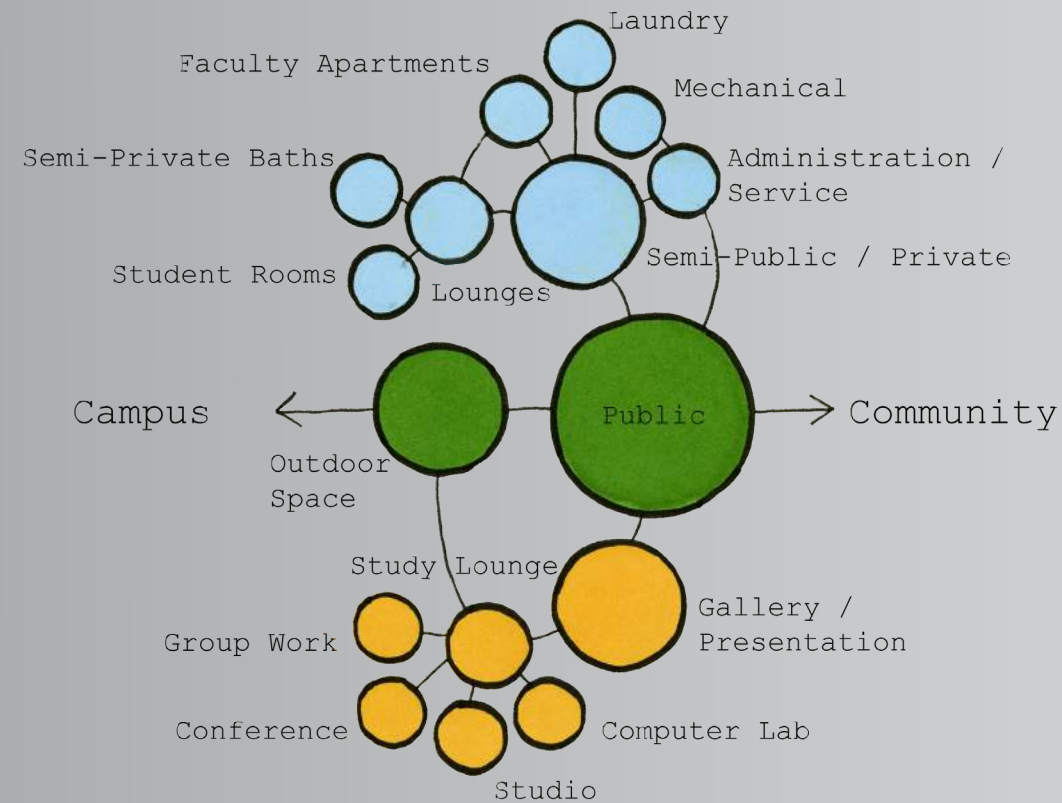
Existing
Building
31,454 ft²

New Construction
102,950 ft²

Total 134,404 ft²

296 Student Beds

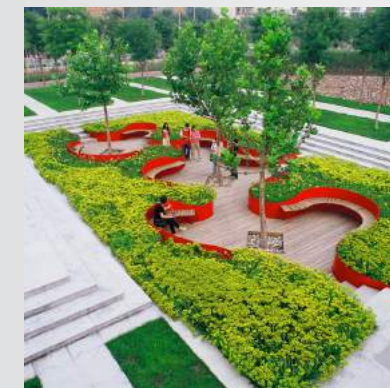
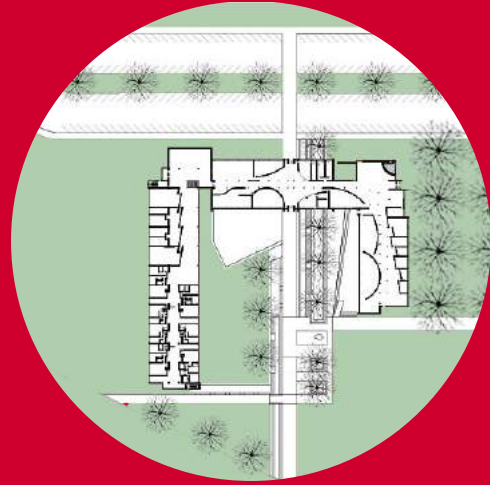
6 Faculty
Apartments



Primary Program Elements

<u>Living</u>	<u>Leisure</u>	<u>Learning</u>
Student Rooms	Common Lounge	Gallery / Performance
Faculty Apartments	Game Room	Studio Spaces
Kitchen / Kitchenettes	Media Room	Conference Rooms
Lounges	Exercise Room	Study Lounge
Semi-Private Bathrooms	Circulation Desk	Group Work Spaces
Laundry	Relaxation Room	Computer Lab
Administration / Service	Coffee Shop	

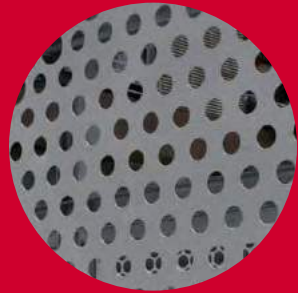
SITE DESIGN



BUILDING EXTERIOR



BUILDING EXTERIOR



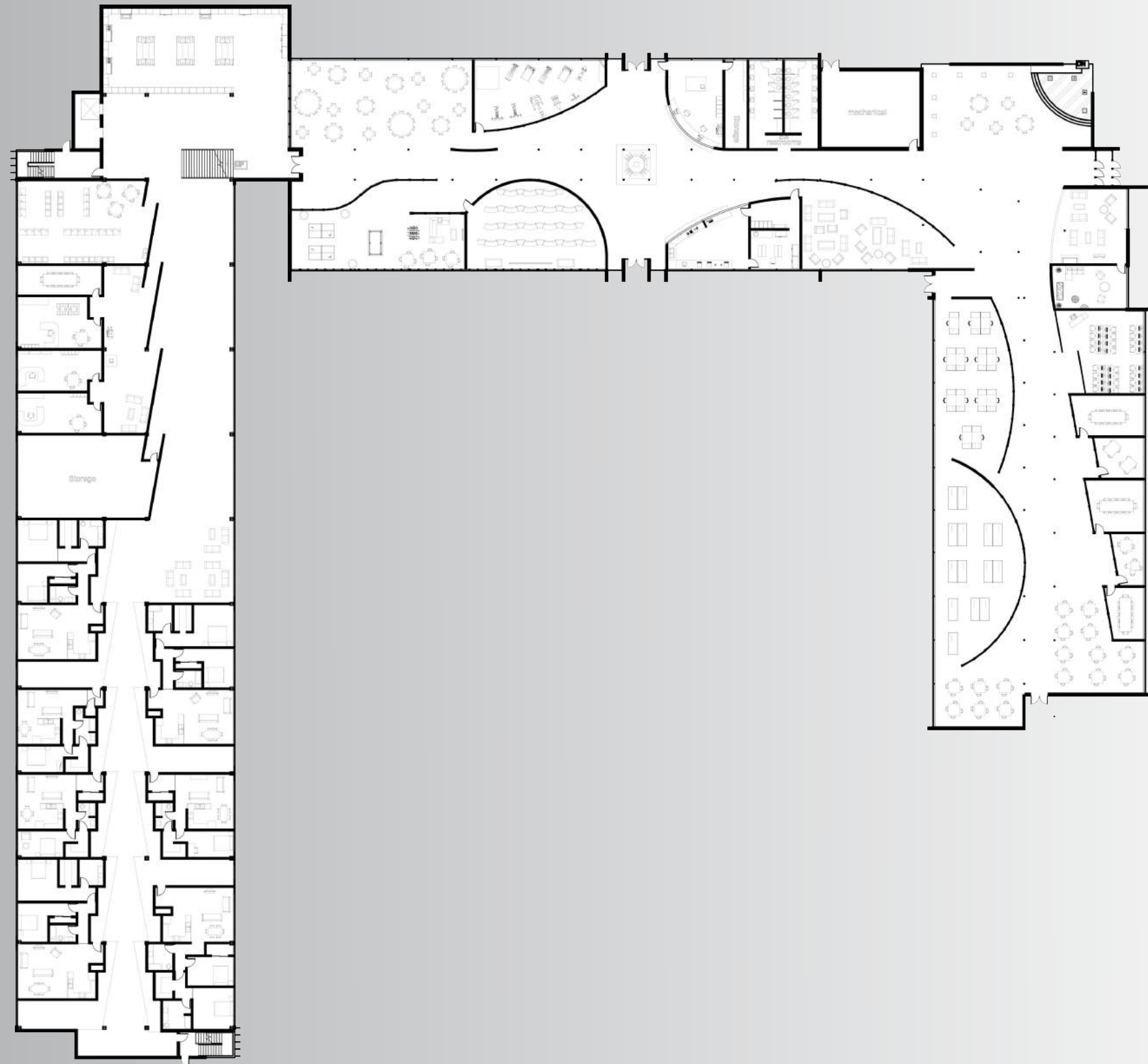
FLOOR PLANS

Level 1

Scholar Living

Leisure Spaces

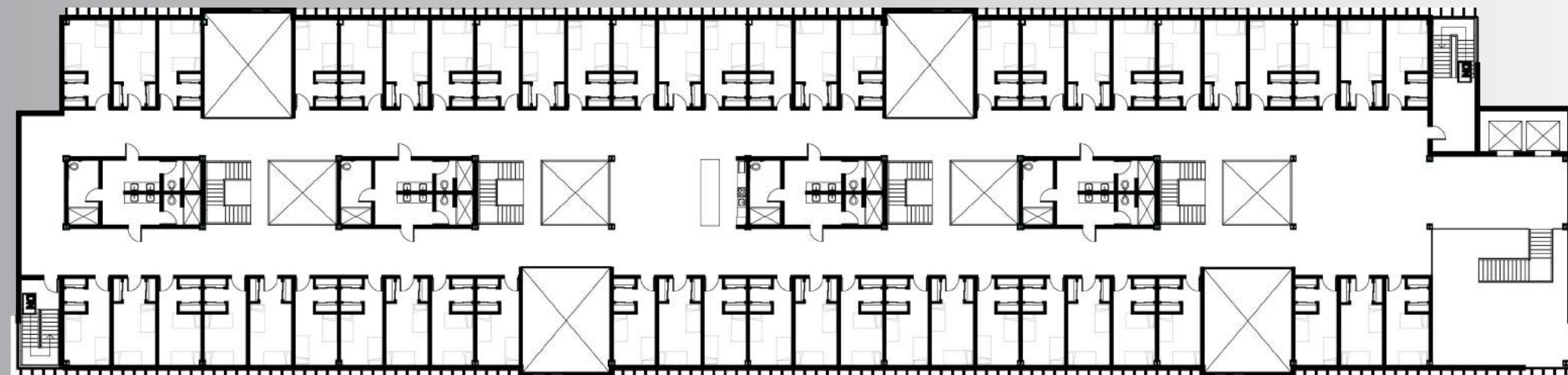
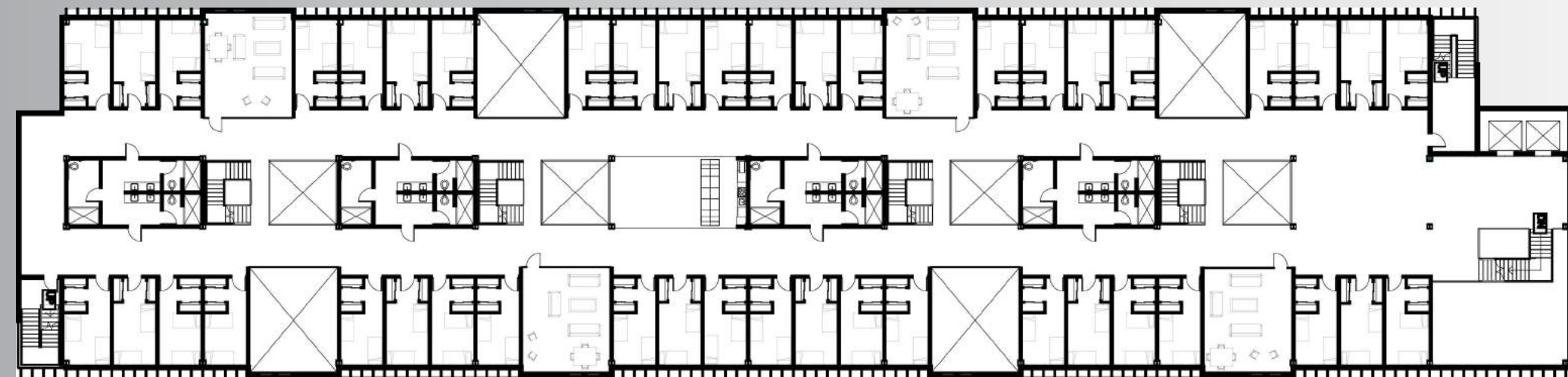
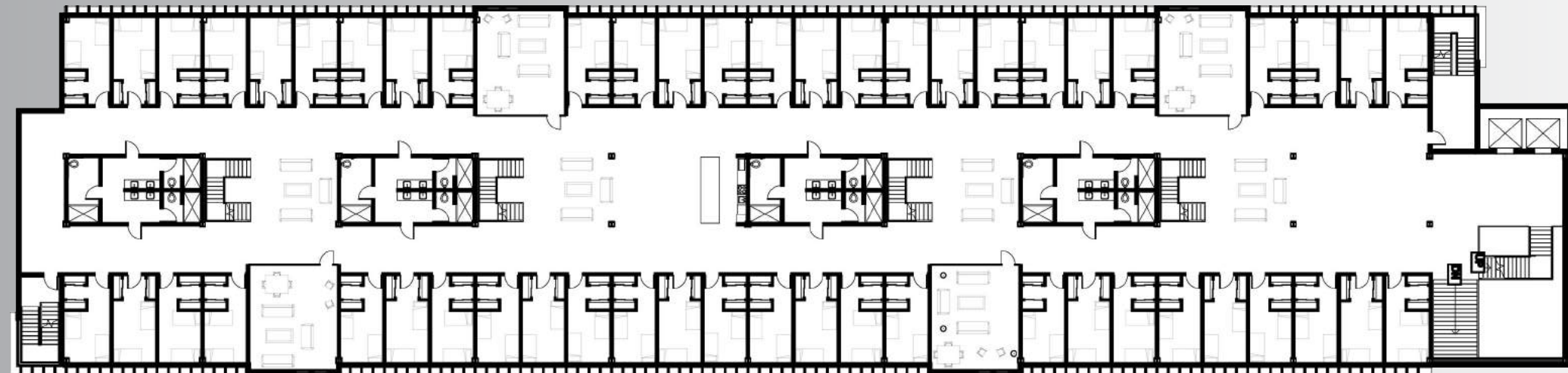
Learning Spaces



FLOOR PLANS

Levels 2-4

Student Living



BUILDING INTERIORS

Leisure

Lounge

Game Room

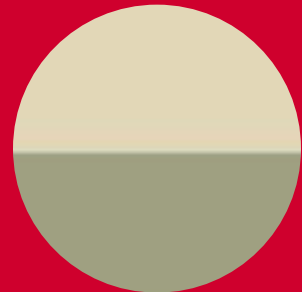


BUILDING INTERIORS

Learning

Studio Space

Study Space



BUILDING INTERIORS

Living

Main Kitchen

Apartment Corridor



BUILDING INTERIORS

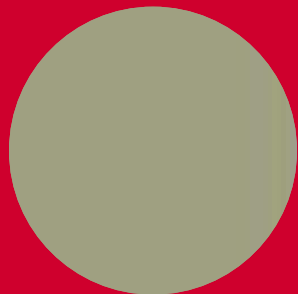
Living

Kitchenette

Lounge

Lightwell

Corridor



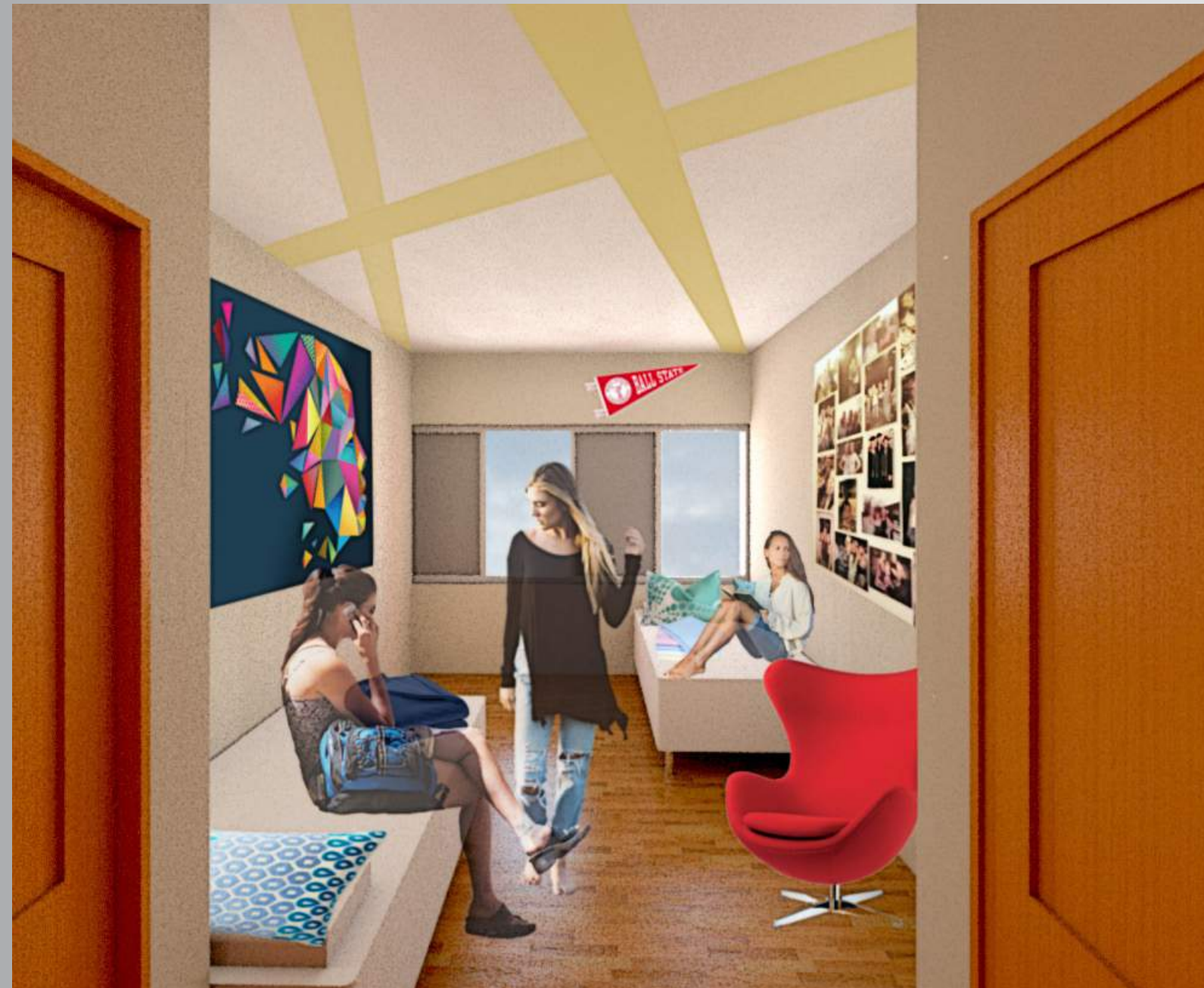
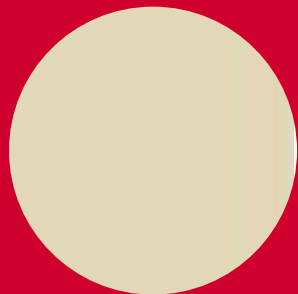
TYPICAL ROOM

Double Rooms

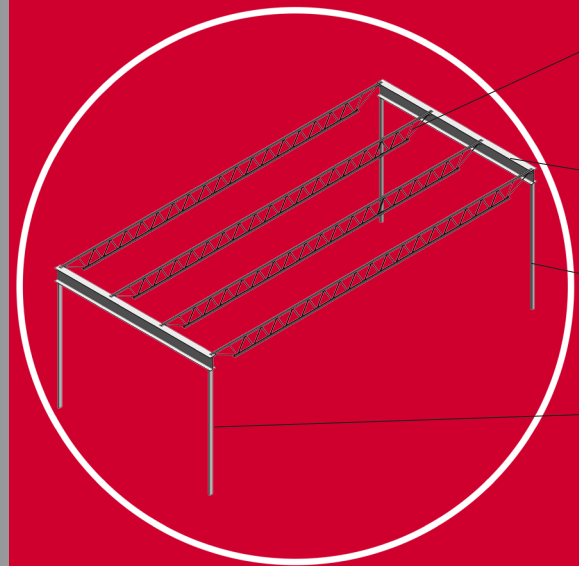
200 Square Feet

Operable Windows

Built-in Closets

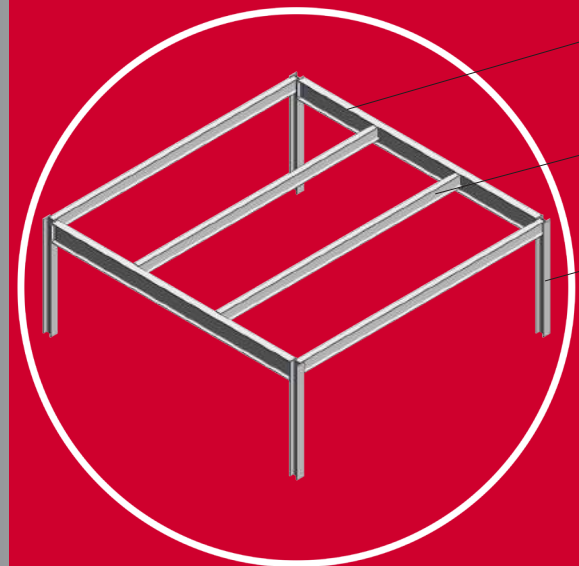


STRUCTURAL SYSTEMS



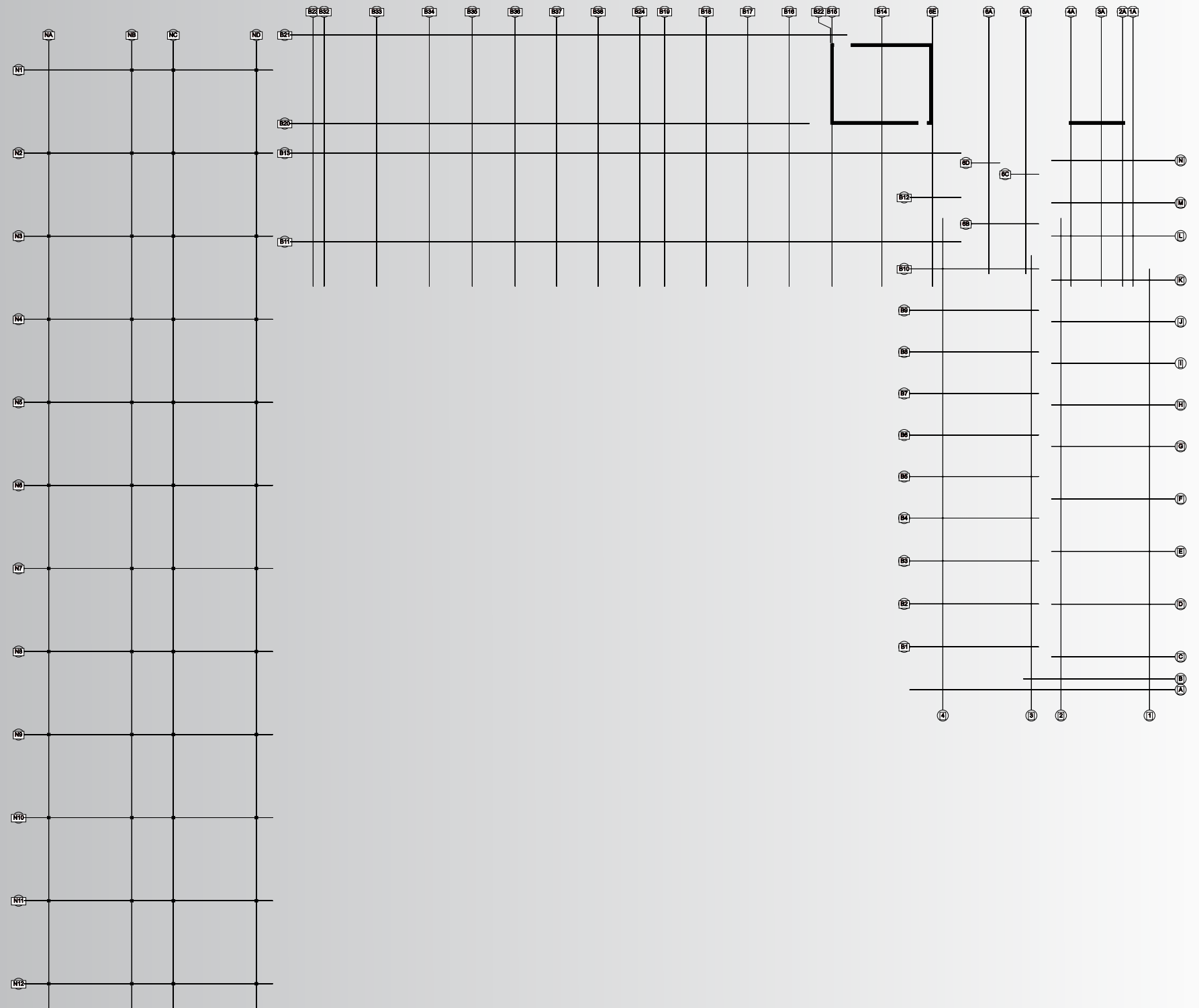
Existing Structure

- 16" Open Web Joists
- W14x30 Beams
- HSSRound3.5x0.25
- HSS4x2x1/4



New Structure

- W24x103 Beams
- W16x57 Beams
- W10x112 Columns



HVAC SYSTEM

Closed-Loop Heat Pump System

High Efficiency

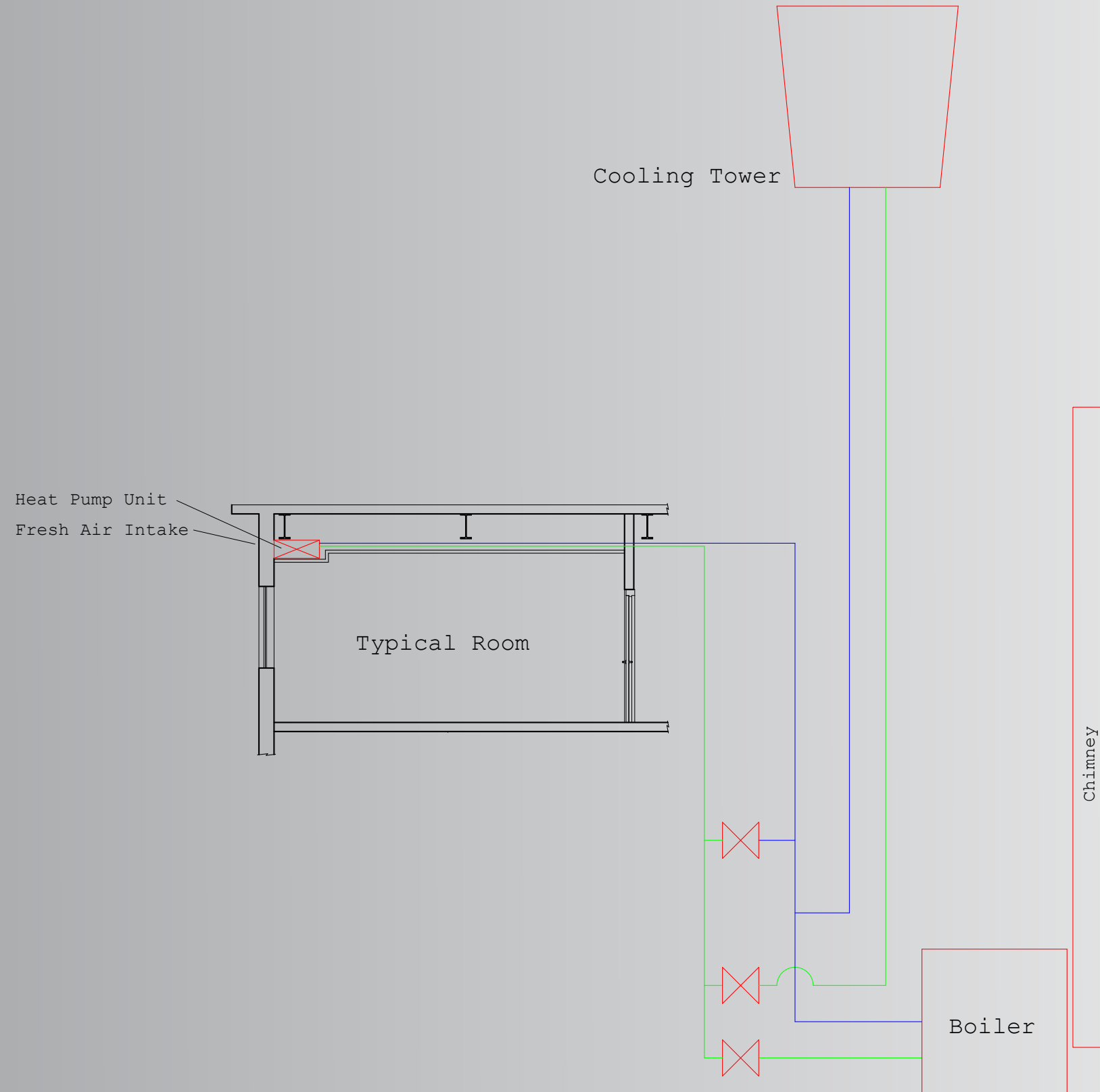
All Water System

Uses Existing Heat in the Building

Minimal Impact on Design

No Duct System

Allows for Individual Room Control



ON-SITE WATER MANAGEMENT

Greywater Retention

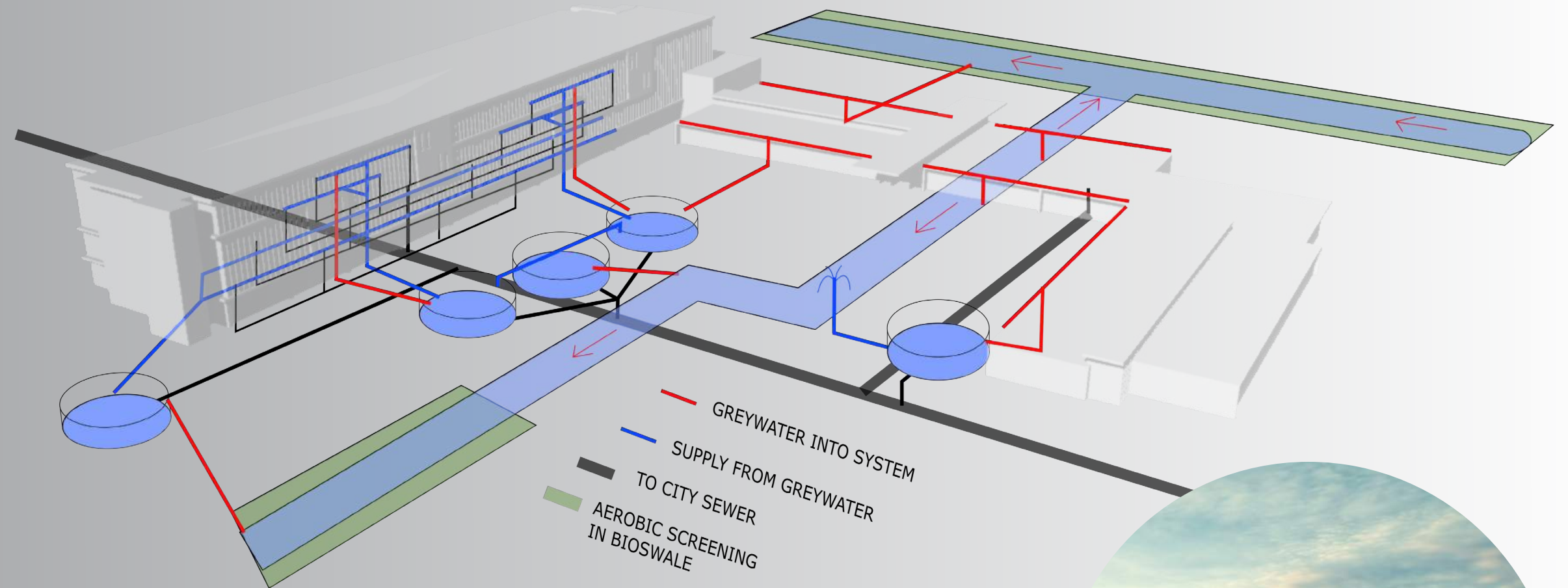
56,000 square feet

23,000 GDP usage

8,400,000 Gallons per Year

0 Dry Days in Indiana

560,000 Gallons can be Provided from Roof Footprint



PASSIVE SYSTEMS

Shading

South-facing
Overhangs

East/West-facing
Vertical Fins

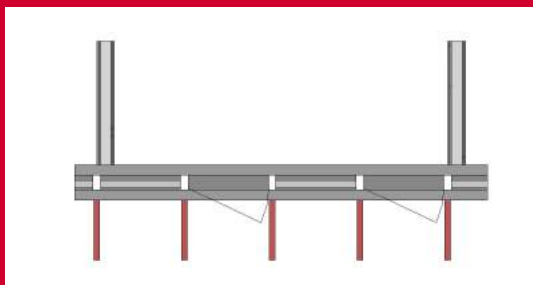
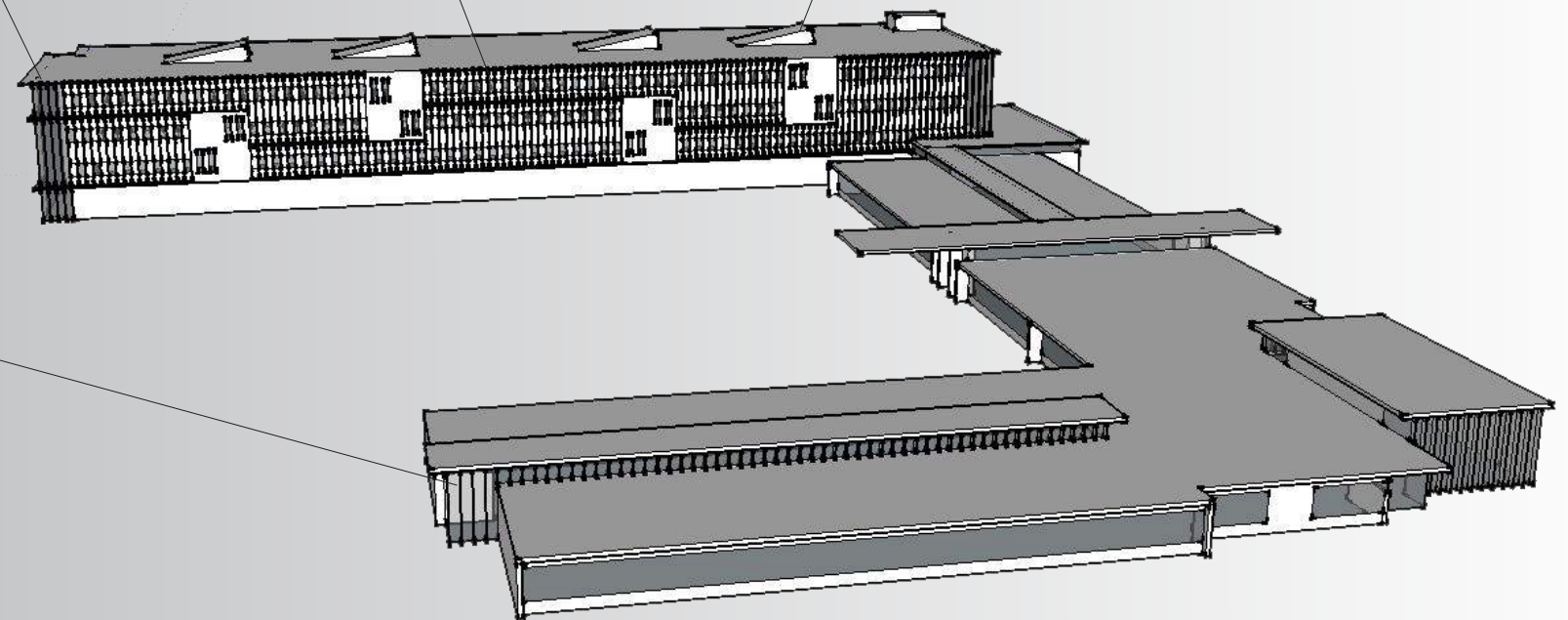
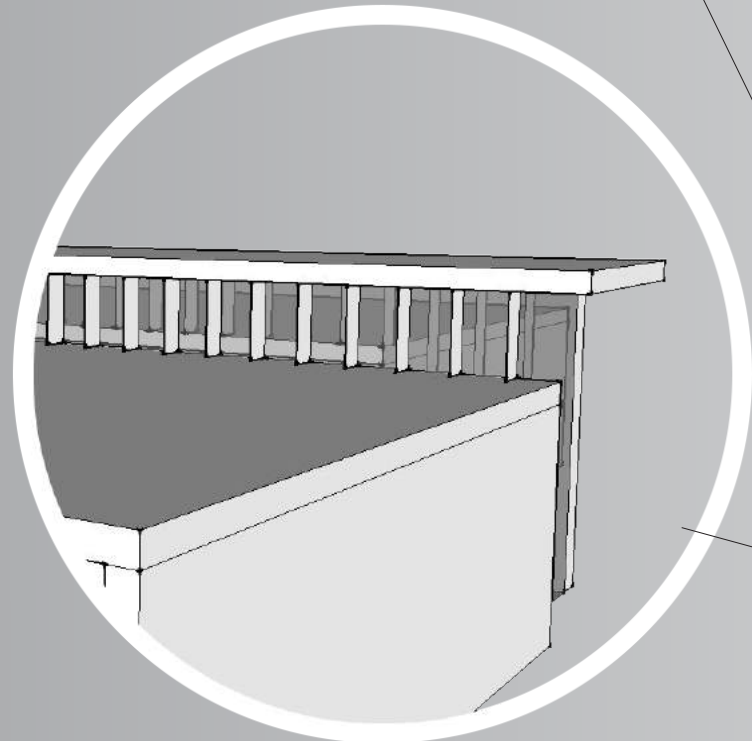
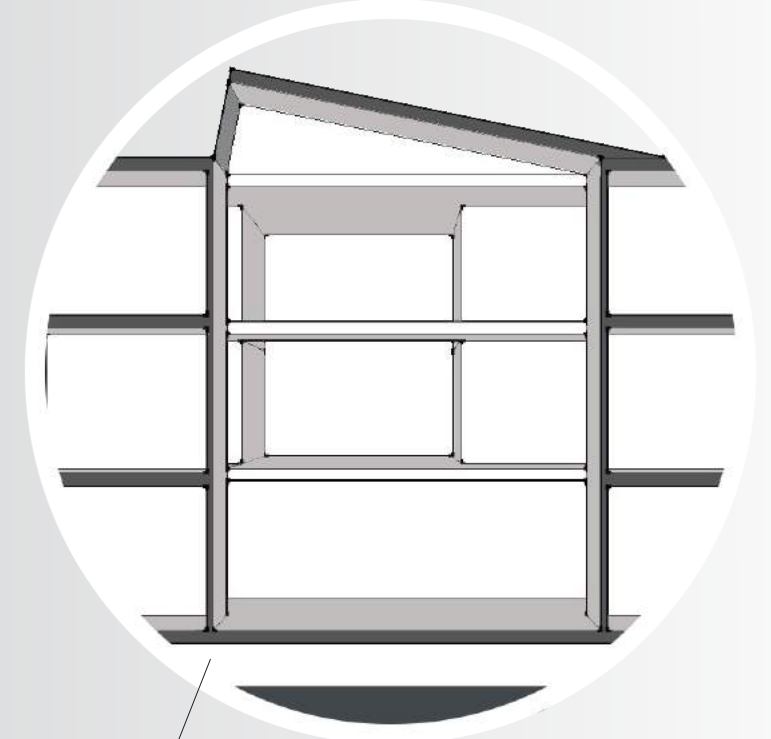
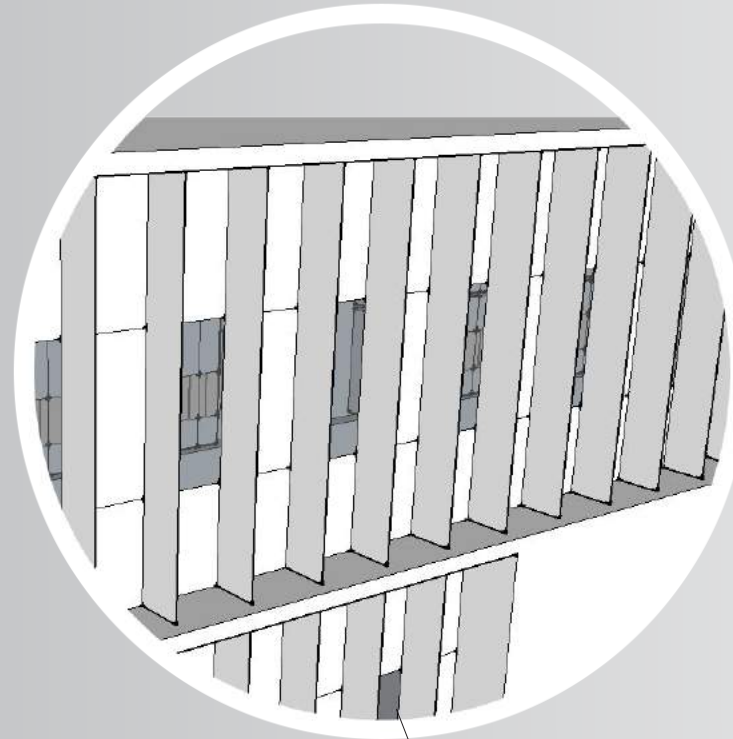
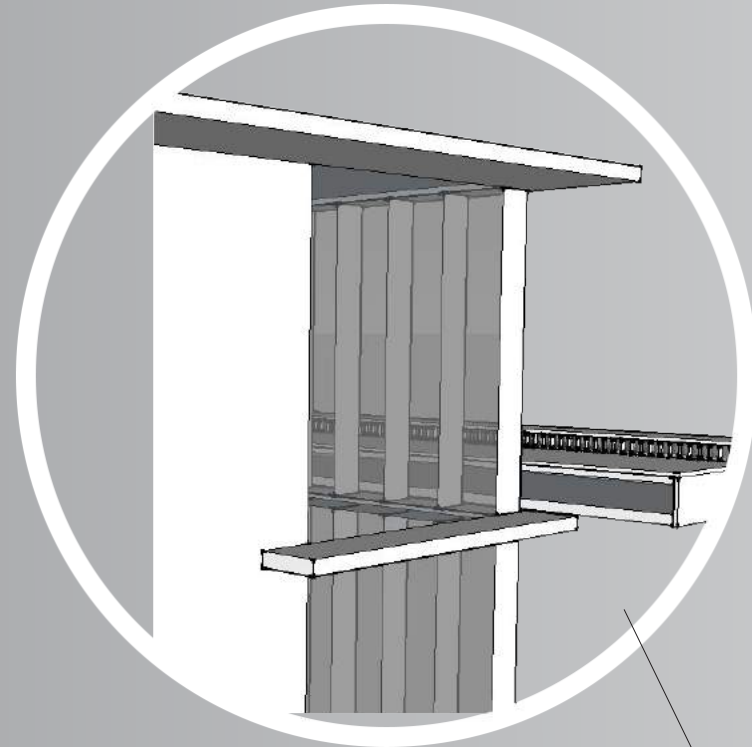
Daylighting

Clerestories

Vertical Light
Wells

Ventilation

Operable Windows

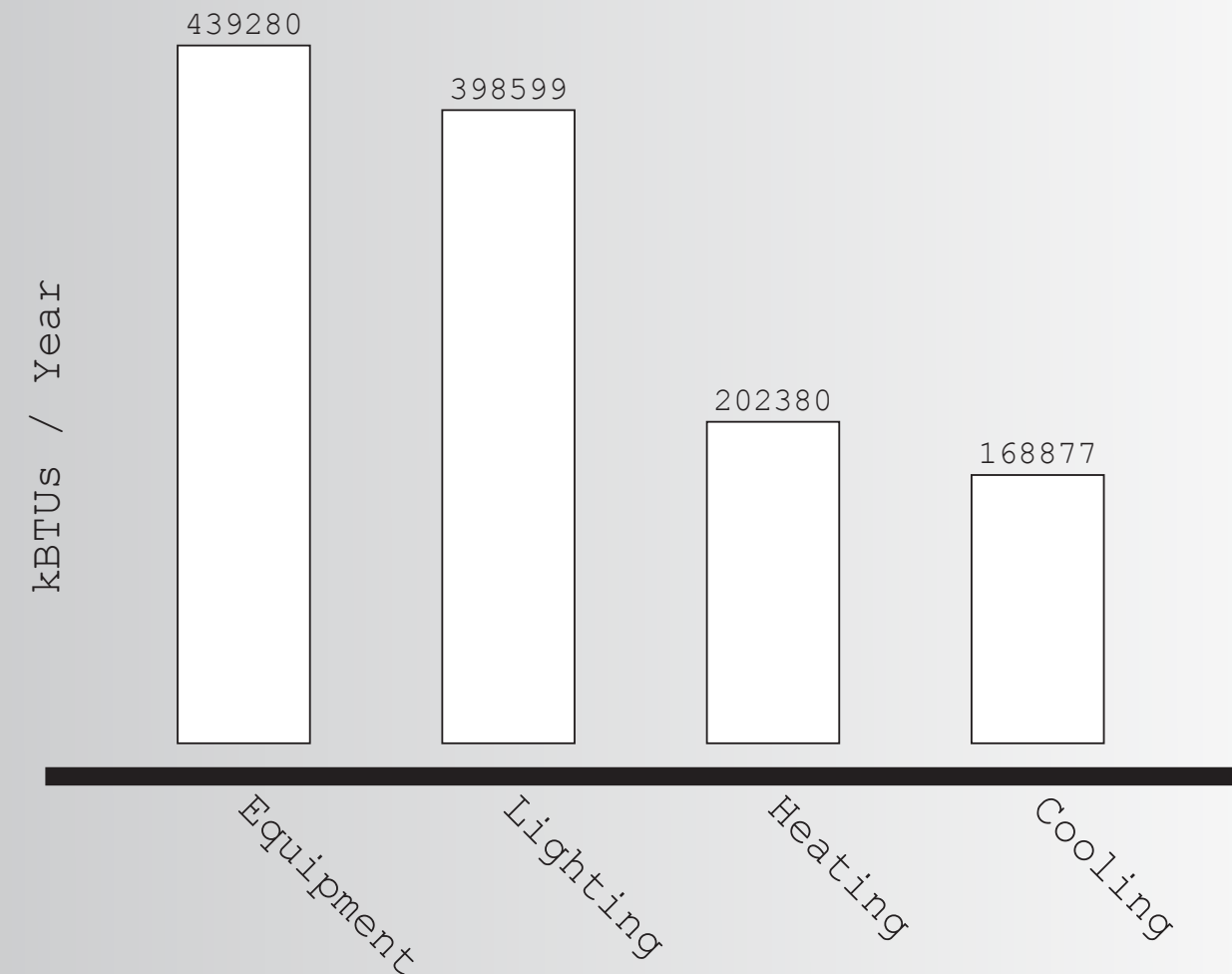


ENVIRONMENTAL ANALYSIS

Improved Performance Strategies

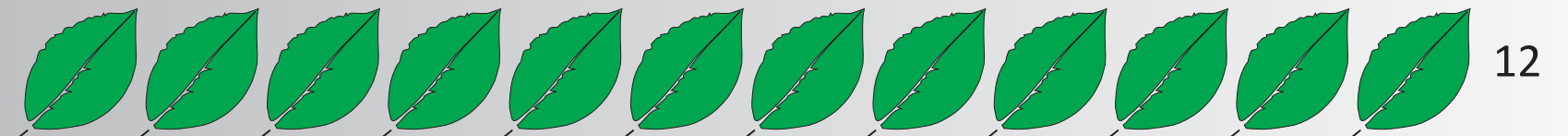
- Facade Design
- Passive Systems
- Efficient Mechanical Systems
- Material Quality
- Construction Practices

Systems Performance (kBTUs / Year)



Building Performance (Rated in kBTUs / ft² / Year)

Anthony Building



2030 Challenge Residential Buildings

