



JOHN W. SCHRADER

ARCHITECTURE | PLANNING | DESIGN



John W. Schrader

B. Architecture Professional Degree- Iowa State University

American Institute of Architecture Students- Iowa State

NCARB- Intern Development Program

LEED AP: BD+C

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Field Experience

SGW Architects - Performed duties as an Architectural Drafter, with BIM Manager Responsibilities. Actively participating in all phases of design for 35,000sf - 100,000sf luxury multi-family projects throughout the City of Chicago. Directed the transition of office project work to Revit production standards, corresponding BIM workflow, and consultant coordination. Typical project work included Schematic Packages, Massing Models, BIM Management, and Schematic Renderings through Construction Document Phases utilizing Revit, Autocad, Sketchup, and Adobe Creative Suite.

NORR-Chicago - Performed duties as an Architectural Designer, participating in all phases of design for a variety of standard to high-profile restaurants/commercial stores throughout the United States and Canada. Typical duties included Core + Shell BIM modeling and coordination, Building & Zoning Code Compliance, Site Analysis & Survey Reporting, Schematic package organization, Design Documentation, and Construction Document production. Typical duties were performed under strict deadlines utilizing Revit, Autocad, In-Design, Photoshop, Illustrator, and Microsoft Office.

LM Consultants, Inc. - Assisted in researching, gaining, and developing client relationships. Participated in weekly meetings with Project Coordinators to review current projects, and discuss the success of new projects currently up for bid. Attended site visits with licensed architect to existing projects and active construction sites within the City of Chicago. Observed licensed architect at site meetings with contractors, owners, and developers. Conducted field reports stating the progress of construction at a current construction site in the City of Chicago.

Skills + Strengths

- | sketching + schematics |
- | 3D print model creation |
- | BIM modeling |
- | concept diagramming |
- | energy + daylight simulation |
- | envelope + construction detailing |
- | digital concept modeling |
- | LEED compliance + scorecard |
- | presentation formatting + design |
- | laser-cut model creation |
- | 2D-CAD document production |
- | GIS + site plan analysis |

Awards

Hansen Prize Competition- Honorable Mention [2013]
<http://new.arch.iastate.edu/2016-hansen-lecture-big/>

ARS Academy Berlin Competition- Honorable Mention [2015]
www.wbm.de/de/unternehmen/staedtebau-wettbewerbe

ArchOutLoud - Journal Publication [2016]
<http://www.archoutloud.com/global-nomad.html>

Proficient in

- | Autodesk Revit |
- | Autocad |
- | Rhinoceros 5.0 |
- | Photoshop |
- | Illustrator |
- | In-Design |
- | Sketch-Up |
- | Microsoft Office |
- | Bluebeam |
- | Revit- Solar Analysis |
- | Revit- Energy Analysis |
- | Rhinoceros- DIVA Analysis |

02 | Goose Island Chicago + E.E.A.C. Headquarters



07 | SoHo, Manhattan Urban Residential



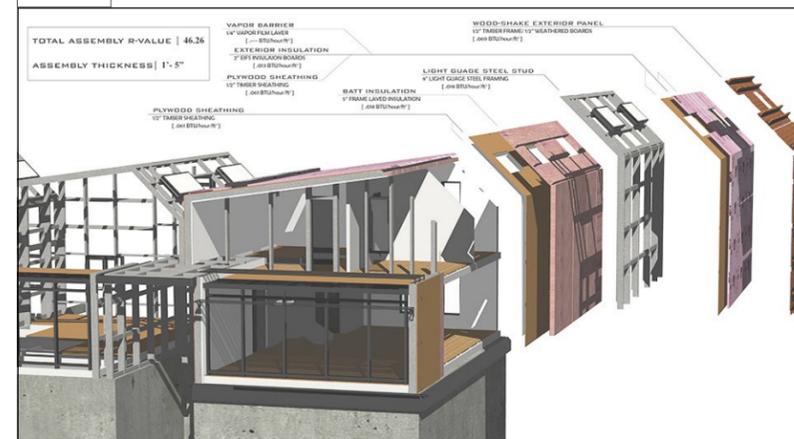
13 | Seattle Urban Archive



17 | St. Charles Health + Wellness Center



19 | Berlin Passive Housing



23 | Expedia Headquarters- Urban Transition



Academic Project, 2014

Professor:

Tat Bonvehi-Rosich

Team:

Charlotte Bannick, Mike Hamman,

Elizabeth Morales, John Schrader

Individual Role:

concept + document delivery

urban massing + digital modeling

group scheduling + coordination

Rehabilitation + Biodiversity |

Following an urban analysis focused on the integrity of air, soil, and water resources, Goose Island was chosen for its historical usage as an industrial hub, and its current day adaption into tech and education facilities. With incremental planning focused on an end date of 2030, Goose Island could undergo soil and water remediation while transforming into a large park amenity for residents and tourists alike.

Urban Planning- *Urbs in Horto* |

In the spirit of Daniel Burnham's 1909 plan for Chicago, diagonal arteries throughout the city were seen as an exception to the urban grid, and utilized for pedestrian and ecological movement throughout the city. Following an increase in development around its perimeter, Goose Island would then act as a spatial connection of existing vegetated space and public amenities along Lake Michigan.

Environmental + Ecological

Authority of Chicago |

Acting as the spatial hub for park systems throughout the city, Goose Island was chosen as an initial start to improving the environmental condition of Chicago. Eventually, Goose Island would be the home of the EEAC ; committee of municipal and independent groups working to improve the environmental integrity of Chicago.

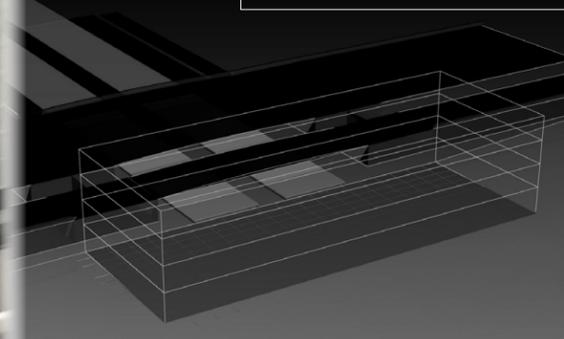
Environmental Restoration for Public Parks + Municipal Event Center

GOOSE ISLAND PARK + E.E.A.C. OFFICE

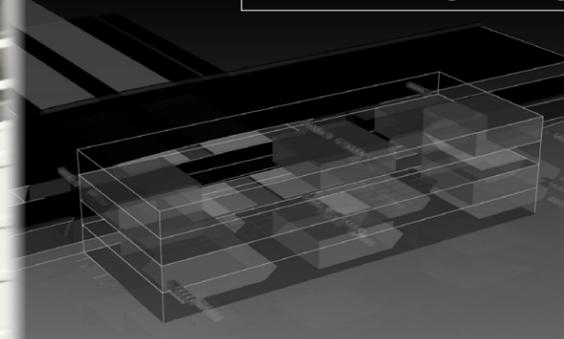
PARK- 160 ACRES | E.E.A.C-10,000 FT²



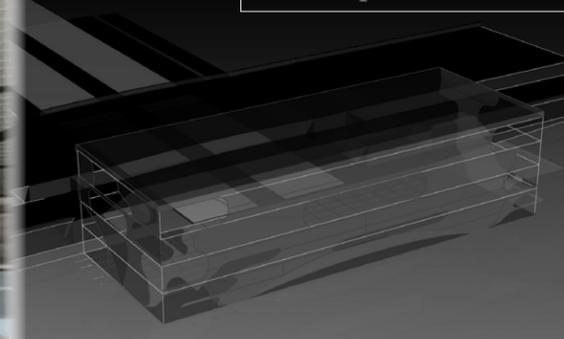
Urban Scale + Volume



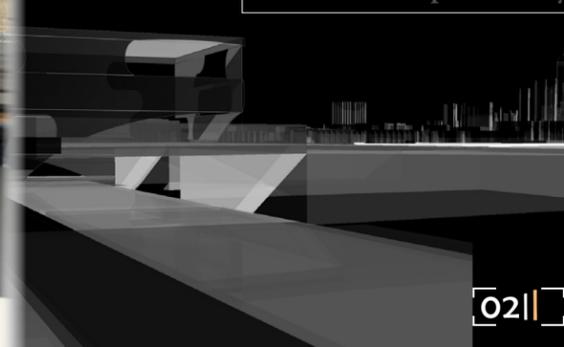
Internal Programming



Envelope+ Extended Site



Site + Loop Proximity





transportation

building

open public space

existing parks

railways

vegetated streets

CHALLENGER PLAYLOT

Incremental Implementation

1808

1812

1834

1888

1921

1950

Municipal

Residential

Military

Commercial

Industrial

Suburban

LINCOLN

STANTON SEWARD

LAKE SHORE

NO. 560

GRANT

Academic Project, 2015
 Professor:
 Andrea S. Wheeler
 Team:
 Brandon Brewer + John Schrader
 Individual Role:
 80/20 housing compliance
 structural design + strategies
 BIM modeling + rendering
 group scheduling + coordination

Inclusive Housing |
 After analyzing the polarization of late 20th century subsidized housing developments, in addition to, increasingly important issues regarding Carbon Emissions in the United States (building sector- 47% (transportation sector-33%) SoHo 21 attempts to address recent government incentives encouraging the integration of affordable housing with high income mixed-use residential developments, as well as, issues regarding how we construct and transport within the built environment.

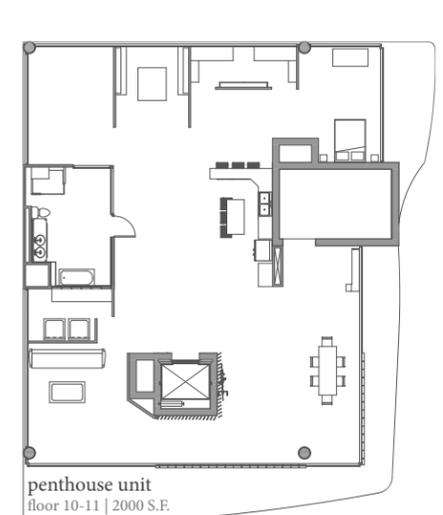
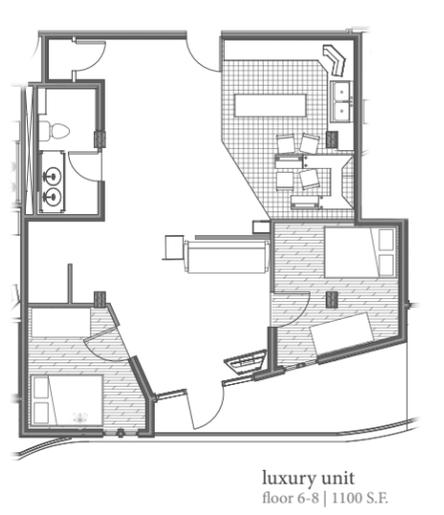
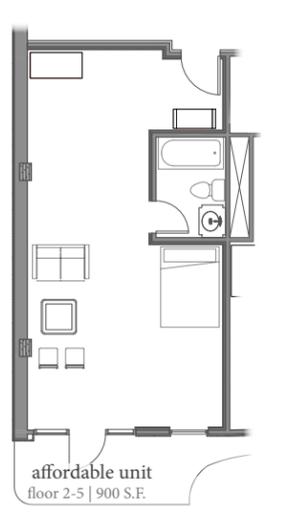
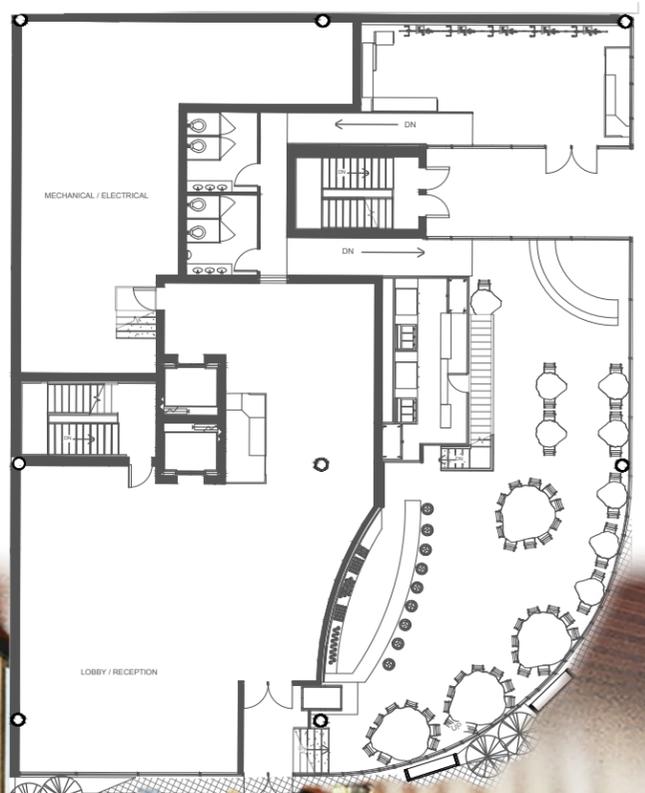
Site Context |
 To capitalize on the sites location within lower Manhattan, SoHo 21 offers a public outdoor 'corner plaza' as an amenity to residents, tourists, and commercial visitors. Highly porous commercial space acts to invite patrons into the interior space.

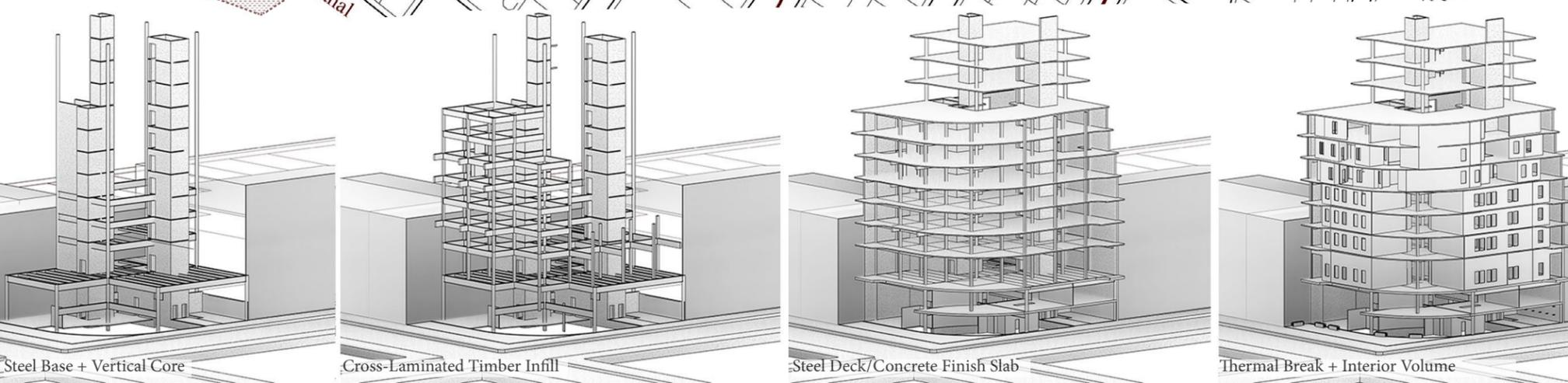
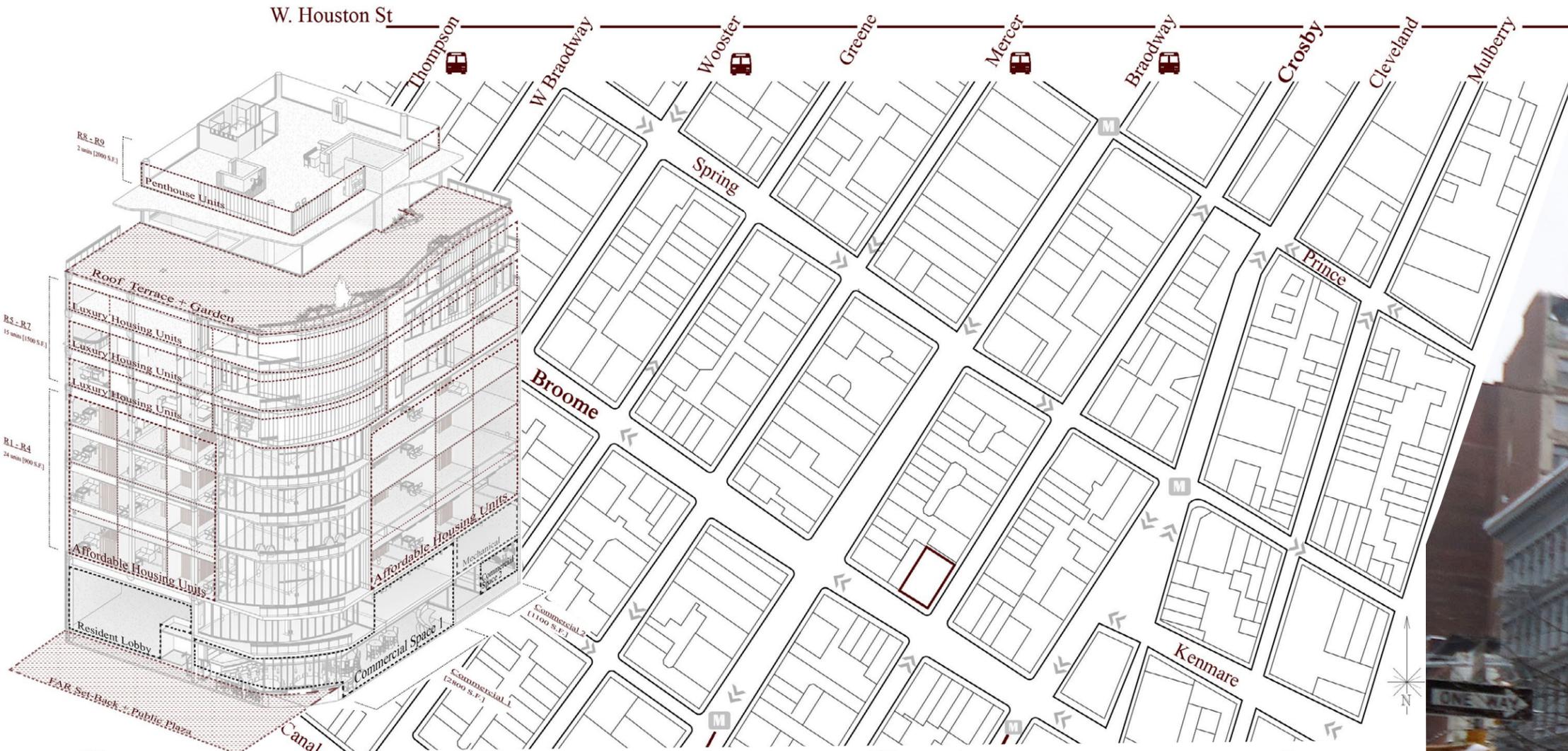
Sustainable Strategies |
 As a response to Carbon emissions within the building sector, and transportation sector, of society, [75%], Soho 21 embodies future trends of a global lifestyle. Both within our built environment on a city scale, as well as, that of an individual building and the many types of systems which determine its impact upon the global carbon emission.

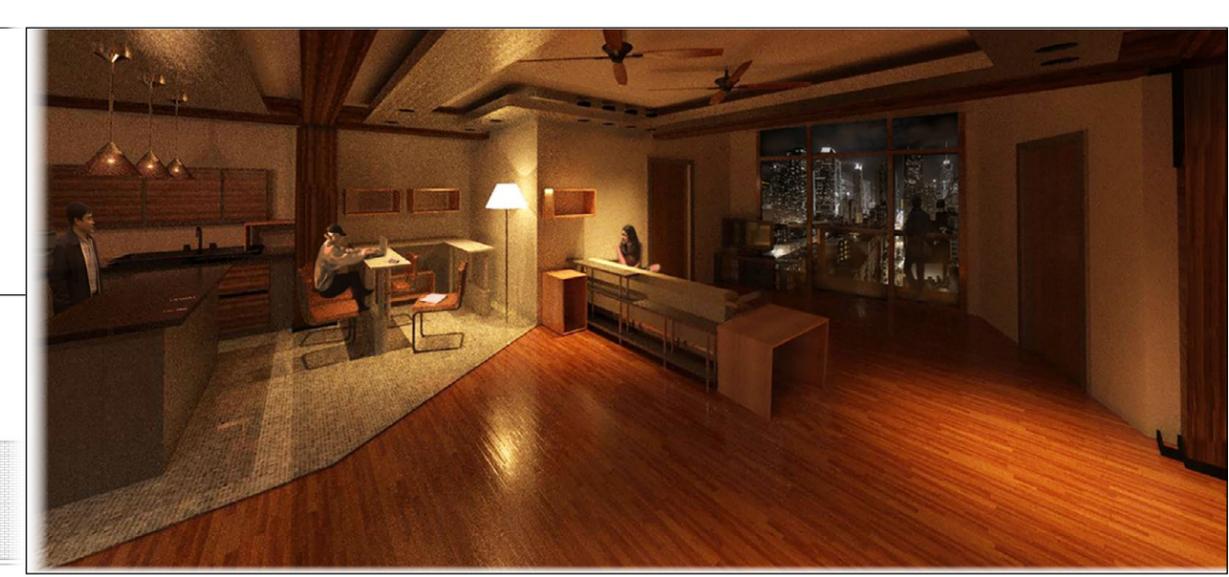
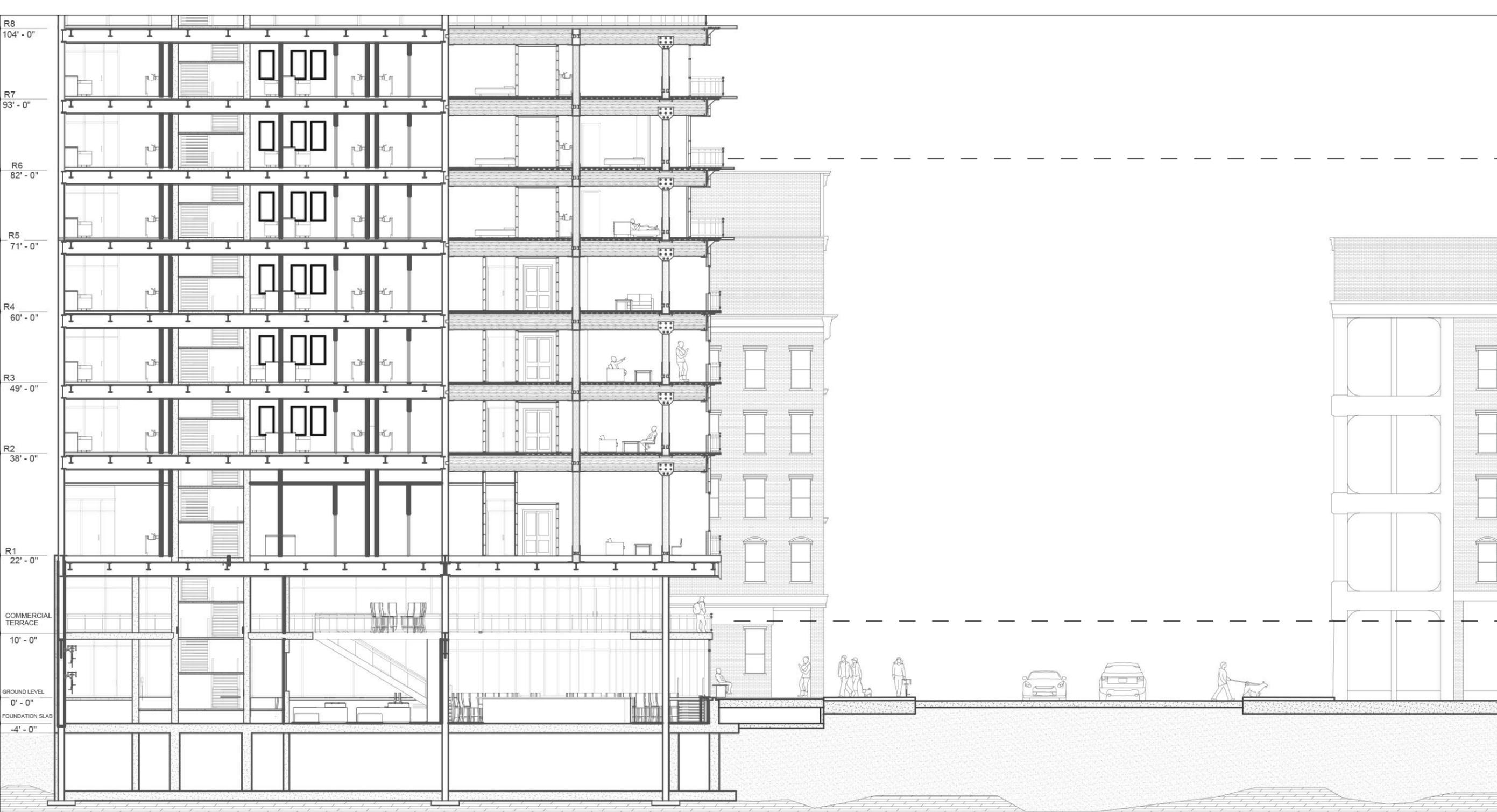
Mixed-Use Comercial + Residential/Multi-Family

SOHO MIXED-USE RESIDENTIAL

42 UNITS- 65,000 FT² | COMMERCIAL- 2,600 FT²







Academic Project, 2014
 Professor:
 Patrick Rhodes
 Team:
 John Schrader
 Role:
 research + concept creation
 building + urban analysis
 adaptive-reuse proposal
 internal programming

Existing Problem
 A social + cultural adaption of an existing building located at 1428 South Alaskan Way (Seattle's tourist district along the waterfront). Site remains the most important aspect of the buildings re-adaption. A multi-story viaduct is located just feet away from the buildings south-west facade. The re-adaption of the archive aims to reclaim the site at a human scale with maximized street presence, as well as, accommodation for public use and safety as it will be an Urban Archive owned by the city and for the use of its citizens and tourists.

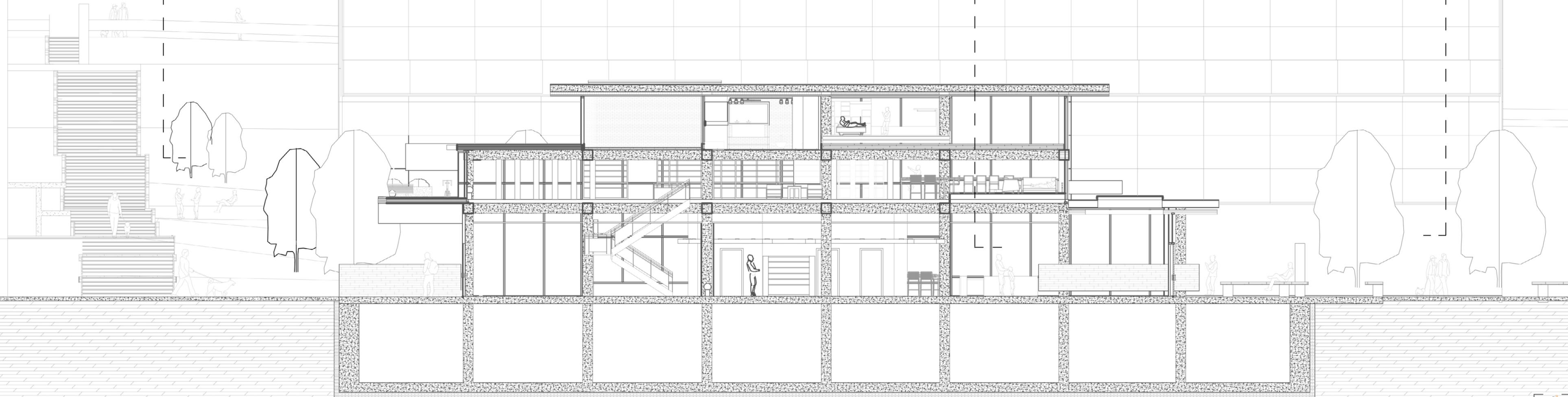
Mapping
 Through analysis of the number of pedestrians to the number of cars, to the number of cyclist, etc... it was obvious that cars dominated this site, in addition to the extended site of the tourist district within Seattle. In comparison, families dominated traveled west from either the hill climb park, or the number of parking garages, above on 1st avenue. These families, school field trips, after school clubs, etc. were most likely heading towards the aquarium which lies less than 300 feet away from the building entrance.

Solution
 The proposed adaptive reuse of 1428 S. Alaskan Way involves a 260 square feet. Expansion along the North-East corner of the existing building, as well as, a carving out of the second and third floor plates along the south facade.



[post viaduct] Bicycle Hub + Urban Archive Museum
SEATTLE PUBLIC ARCHIVE 48,000 FT²





Academic Project, 2014
 Professor:
 Tat Bonvehi-Rosich
 Team:
 Ran Gu, Donald Hull, John Schrader
 Individual Role:
 structural strategy
 internal program development
 atmospheric rendering
 verbal presentation + approach
 *Hansen-Competition Finalist

Site Response|
 Within the contemporary Iowan landscape, little remains of the undulating prairie lands which existed for thousands of years before its settling, and the evolution of an industrialized farming process. The profoundly open, native network of prairie habitat has been manipulated by a foreign grid of infrastructure, right angles, and a disregard for the preservation of natural beauty inherent to our nation's heartland. With initial goals to design not only a piece of architecture, but also an experience which facilitated healing, it became apparent that the stifling repetition and established spatial fabric of the Jeffersonian grid has imparted on the Iowan landscape would not offer maximum opportunities of individual and group reflection, collaboration, and ultimately healing.

Solution|
 The strategy developed to heal this specific group of users, was to create an environment which contrasts from the stressful, rigid environment of the urban. The most effective way to accomplish this 'transposition' would be to return the site to its natural form. The building is built into the landscape, and interior space is kept to a minimum. The intent is to create a building that integrates into the landscape in form and also functions as part of the ecosystem of the site.



Resort + Conference Center for the Doctors of Iowa
ST. CHARLES HEALTH + WELLNESS 135,000 FT²

Reading Room
 A reading room is located at the end of each "wing" of the building. These quiet areas capitalize on the decreased circulation at each end of the building, and allow for diversion and entertainment when exterior conditions are undesirable.

Lounge Area
 Lounge areas are located at the center of each wing, and provide opportunity for social interaction as well as space for small group meetings if necessary.

Kitchen & Dining Space
 Kitchen and dining space makes up the majority of the semi-public space. The kitchens are stocked with food 24/7, and buffets are laid out at each meal time. However, the kitchens are also open to users, allowing you to cook your own meals if you desire.

CIRCULATION: INTERIOR
 normal circulation
 ramps/stairs

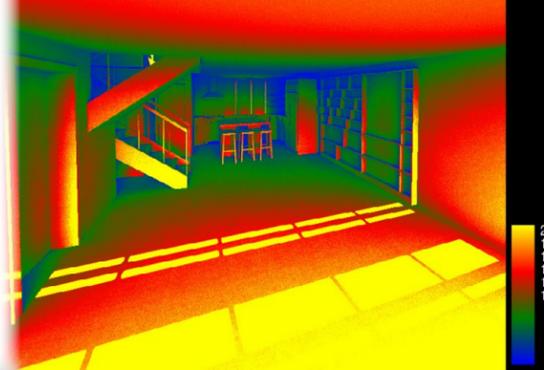
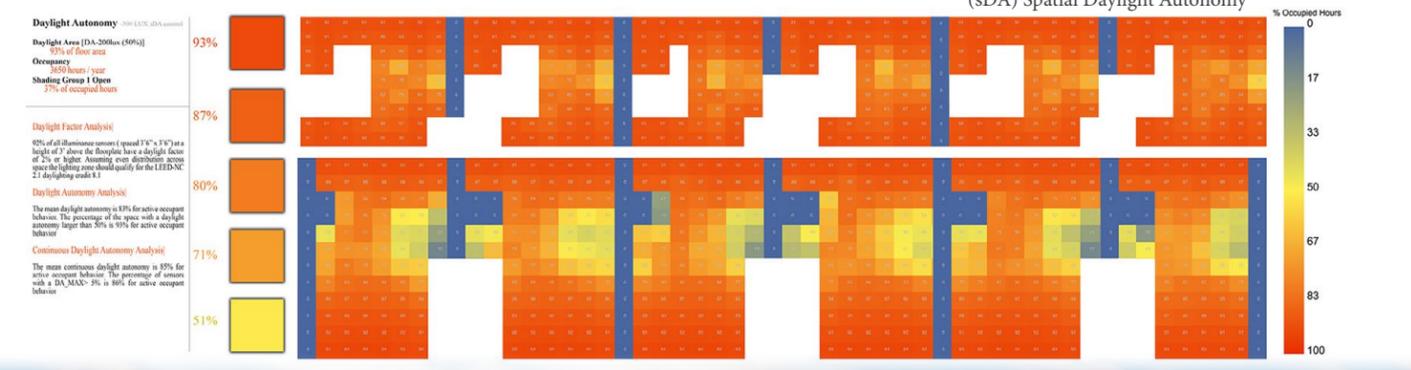
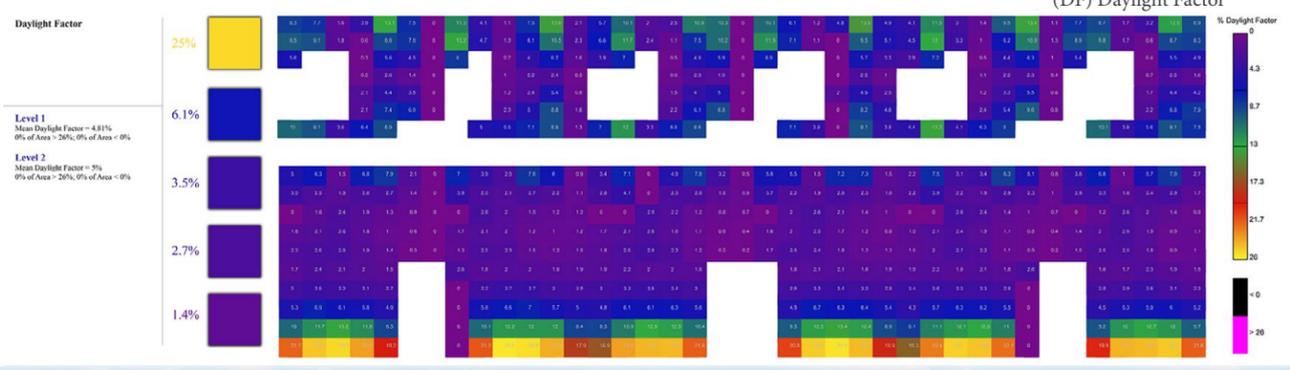
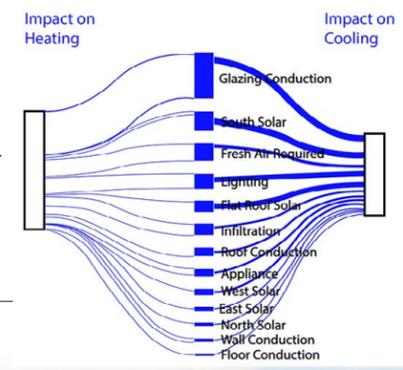
CIRCULATION: APERTURES
 green level
 roof

CIRCULATION: ROOF
 green roof
 connection to ground

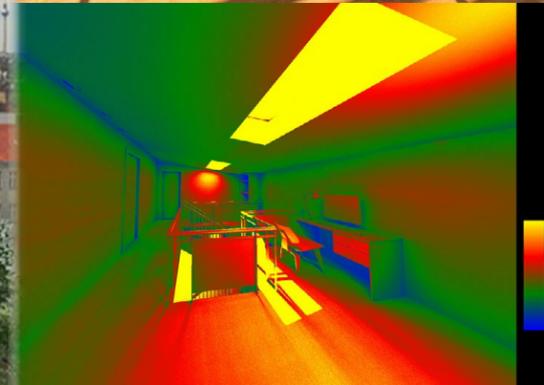
HIERARCHY OF SPACE
 private
 semi-public
 public

VIEW & GLAZING
 glazing
 views

Academic Project, 2015
 Professor:
 Ulriche Passe
 Team:
 Sunny Fok, Niels Henning, Nadia Kosno, Kevin Pajado, John Schrader
 Individual Role:
 structural section + detail
 atmospheric rendering
 verbal presentation + approach
 energy + daylight simulation



Existing Condition |
 In preparation for future demand of housing, residential developer WBM wanted to utilize the existing soviet-era apartment buildings lining the block of Modersohnstrasse 77 in the booming Friedrichshain-Kreuzberg neighborhood of Berlin. To solve issues of adaptive reuse, circulation, and energy performance WBM asked students to design an apartment module utilizing the existing concrete structures while also creating a new neighborhood atmosphere for residents.
 Passive Strategies |
 Beginning in preliminary design stages, passive strategies of daylighting, thermal retention, and occupant comfort acted as a major catalyst of design. To decrease energy demand of units, Modersohnstrasse 77 offers optimal daylighting potential reaching the 90th percentile of occupied hours. In addition, a high-performance envelope acts to mitigate exterior-to-interior environments, combating energy demand in a largely heat-dominated climate. EUI goals for 2030 were nearly reached (-90% of target EUI reductions).
 Implementation |
 To respond appropriately to existing conditions of apartment space and structure, Modersohnstrasse 77 utilizes a pre-assembled light-gauge steel frame, fit to existing structural spans and volumes.



Apartment Development for 2030 Building Goals
BERLIN PASSIVE APARTMENT 1,100 FT²/UNIT

TOTAL ASSEMBLY R-VALUE | 46.26

ASSEMBLY THICKNESS | 1'-5"

VAPOR BARRIER

1/4" VAPOR FILM LAYER
[.--- BTU/hour/ft²]

EXTERIOR INSULATION

2" EIFS INSULATION BOARDS
[.013 BTU/hour/ft²]

PLYWOOD SHEATHING

1/2" TIMBER SHEATHING
[.061 BTU/hour/ft²]

WOOD-SHAKE EXTERIOR PANEL

1/2" TIMBER FRAME/ 1/2" WEATHERED BOARDS
[.069 BTU/hour/ft²]

LIGHT GAUGE STEEL STUD

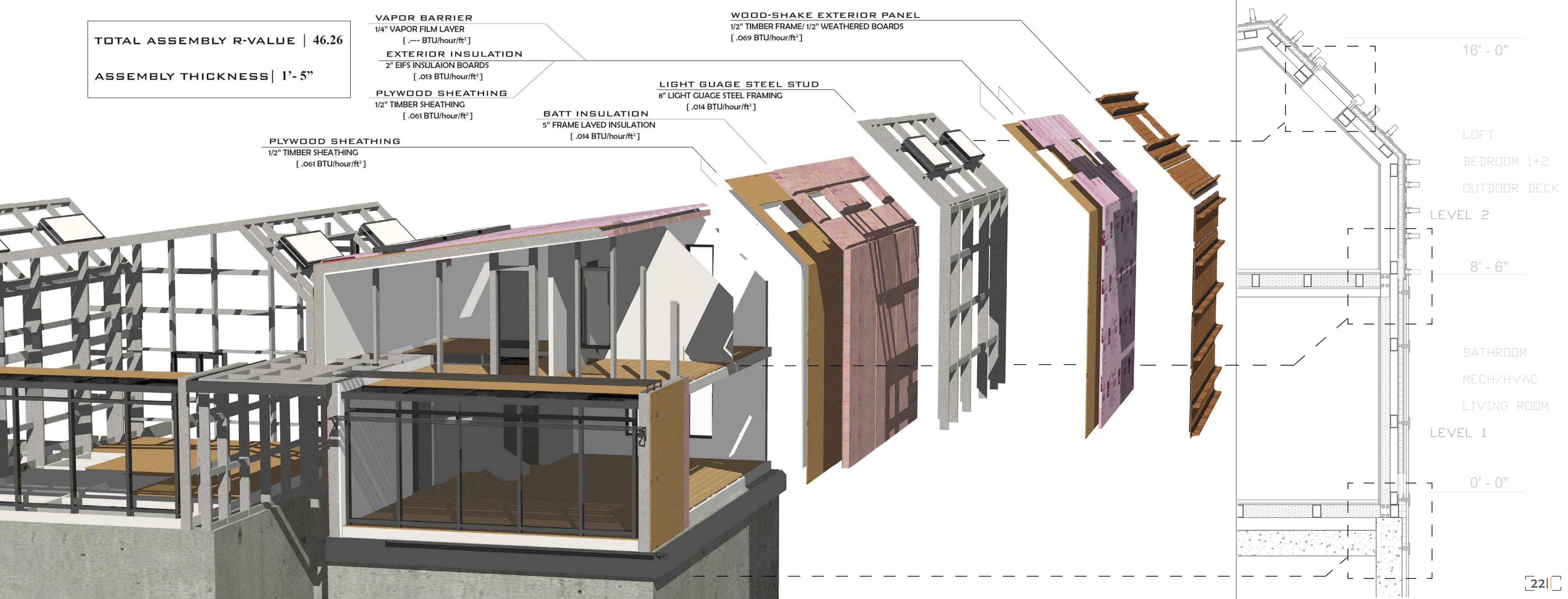
8" LIGHT GAUGE STEEL FRAMING
[.014 BTU/hour/ft²]

BATT INSULATION

5" FRAME LAYED INSULATION
[.014 BTU/hour/ft²]

PLYWOOD SHEATHING

1/2" TIMBER SHEATHING
[.061 BTU/hour/ft²]



16' - 0"

LOFT

BEDROOM 1+2

OUTDOOR DECK

LEVEL 2

8' - 6"

BATHROOM

MECH/HVAC

LIVING ROOM

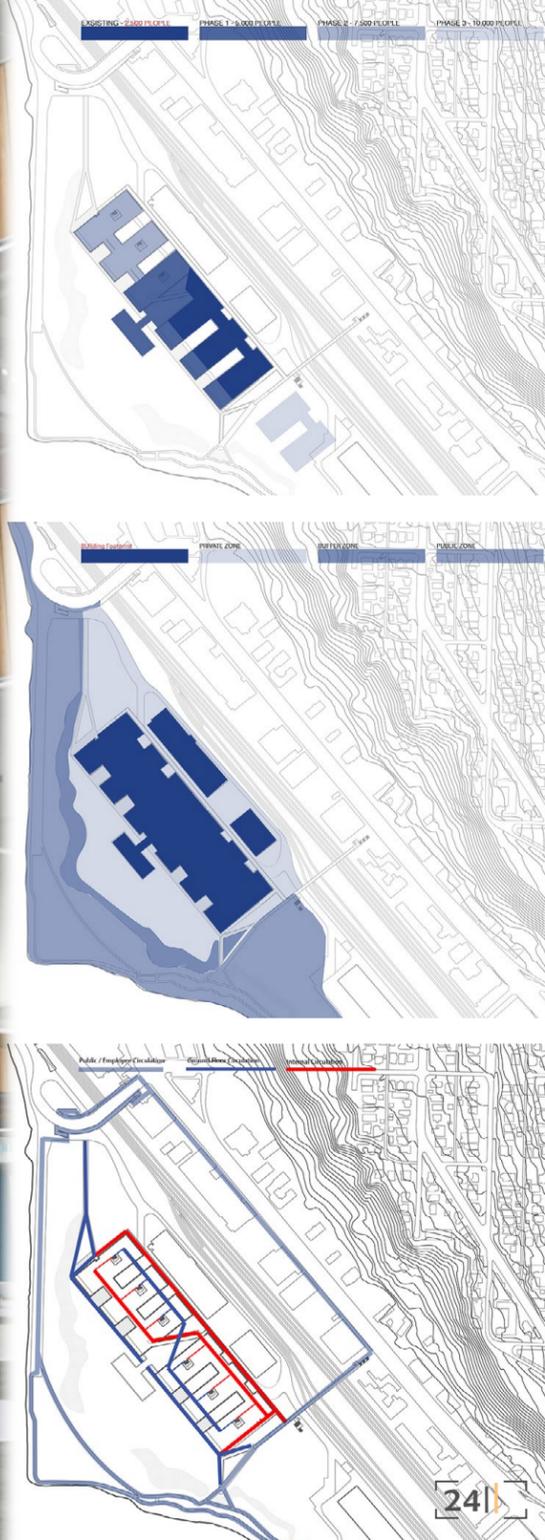
LEVEL 1

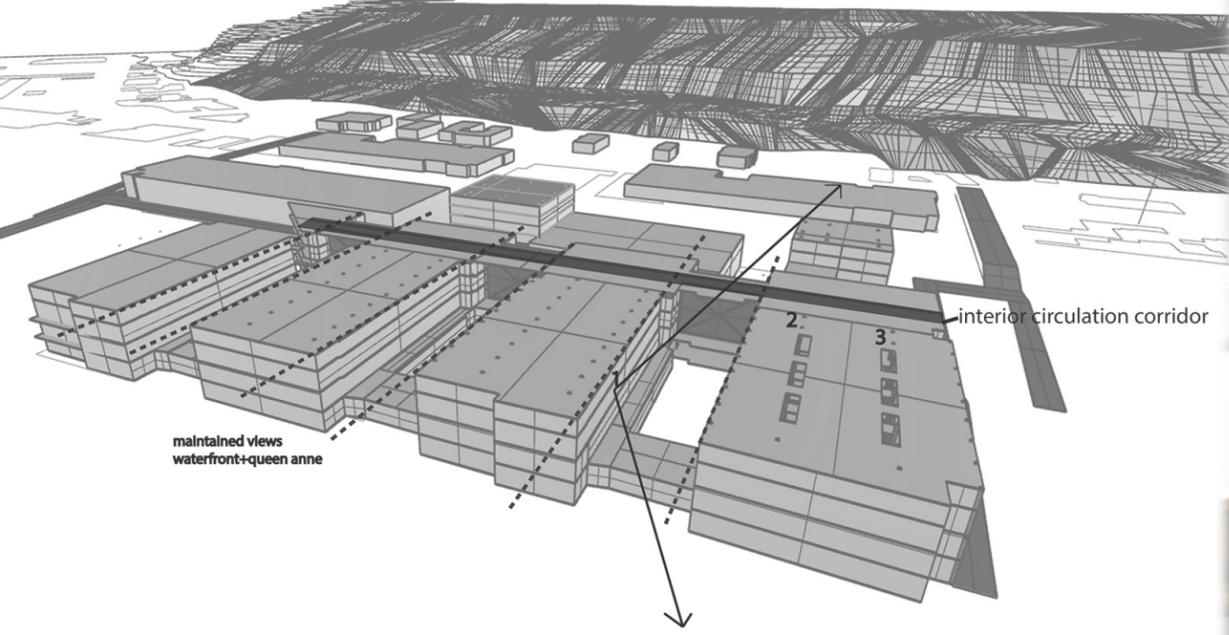
0' - 0"



ADAPTIVE-REUSE: CORPORATE HQ TRANSITION TO DOWNTOWN CAMPUS
EXPEDIA CORPORATE HEADQUARTERS (IN PROGRESS)

2 MILLION FT²







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