

PORTFOLIO

LLOYD HELEN

This portfolio describes the projects that I have worked on in areas of architecture and urbanism throughout my academic studies and professional career.

Unless otherwise noted, all work is my own.

Professional Work

1

Euston CSC

London, UK

Construction Skills Centre and shared workspace. First prize.

2

Heathrow Hotel

London, UK

300+ bedroom hotel next to London's major airport.

3

IBM Hub

Winchester, UK

A place of collaboration and recreation for IBM staff.

4

East Harlem

New York, NY, USA

Redevelopment proposal with NYC Dept. of City Planning.

5

Envelope

New York, NY, USA

Zoning analysis, beta testing and illustration.

6

L Train Shutdown

New York, NY, USA

Positing the L train shutdown as a unique opportunity.

7

Engine Company 23

New York, NY, USA

Interior and exterior renovation of an historic firehouse.

8

Martha's Vineyard

Chilimark, MA, USA

Ground-up residence on 29 acres of ocean-front property.

9

International House

New York, NY, USA

Multi-year phased renovation of student residences.

10

159 Madison Ave.

New York, NY, USA

Renovation of high-end mid-Manhattan apartment.

11

LSE and Kingston

London, UK

Two competitions. First prize for Kingston University.

12

Spenner HQ

Erwitte, Germany

New headquarters for cement manufacturer. First Prize.

13

Xujiahui Promenade

Shanghai, China

Elevated pedestrian connector and promenade.

Academic Work

1

The Architecture of Curiosity

Glasgow, Scotland, UK

Thesis project in the post-industrial city.

2

Adaptable Infill

Copenhagen, Denmark

'Building as stairs' infill development proposal.

3

Acrylic Tendancies

Copenhagen, Denmark

Investigating the properties of plastic as a building material.

Euston Construction Skills Centre

FBM ARCHITECTS

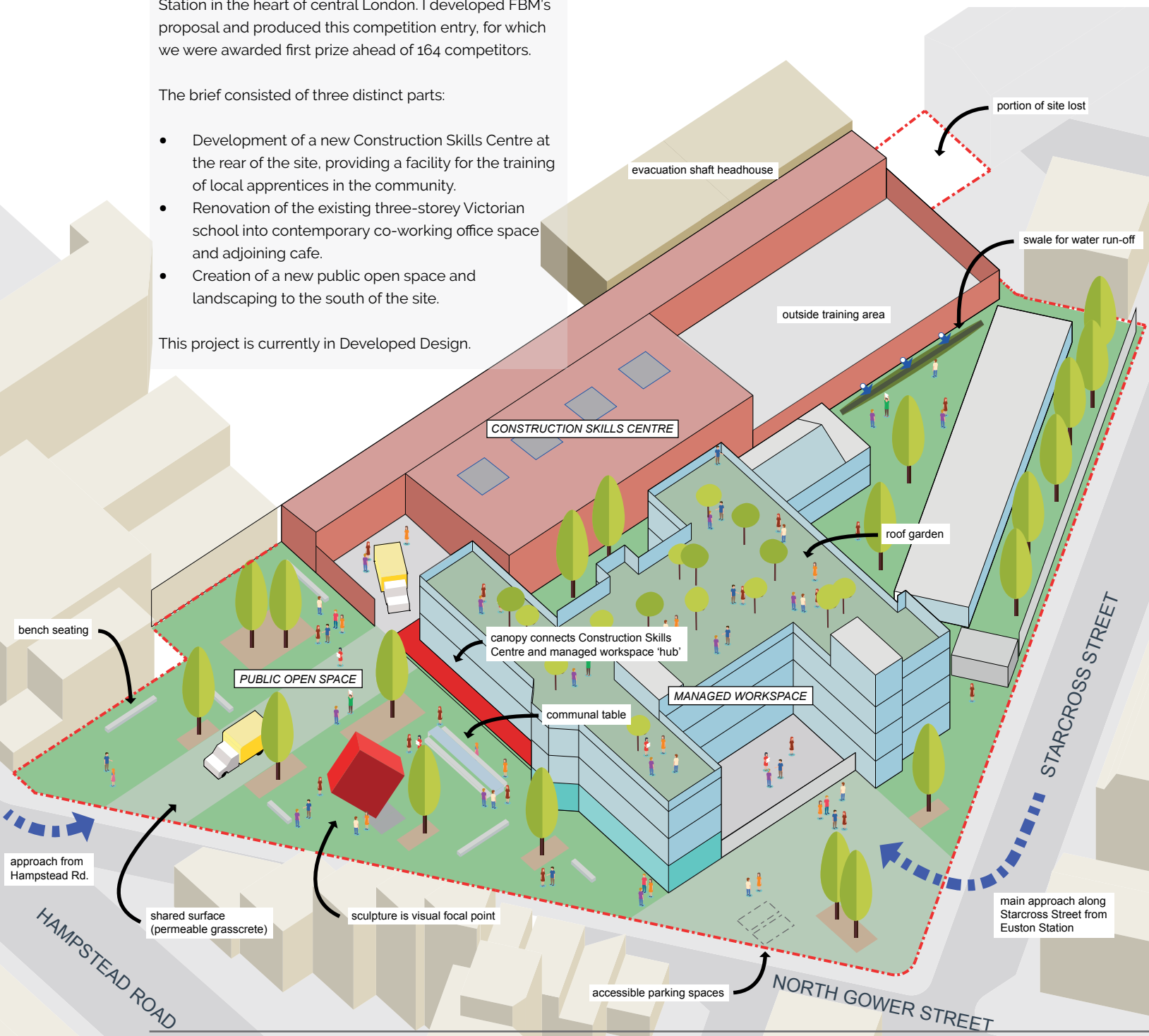
LONDON, UK
Spring 2018 - present

Open competition hosted by Camden Council for the repurposing of an early 1900s school next to Euston Station in the heart of central London. I developed FBM's proposal and produced this competition entry, for which we were awarded first prize ahead of 164 competitors.

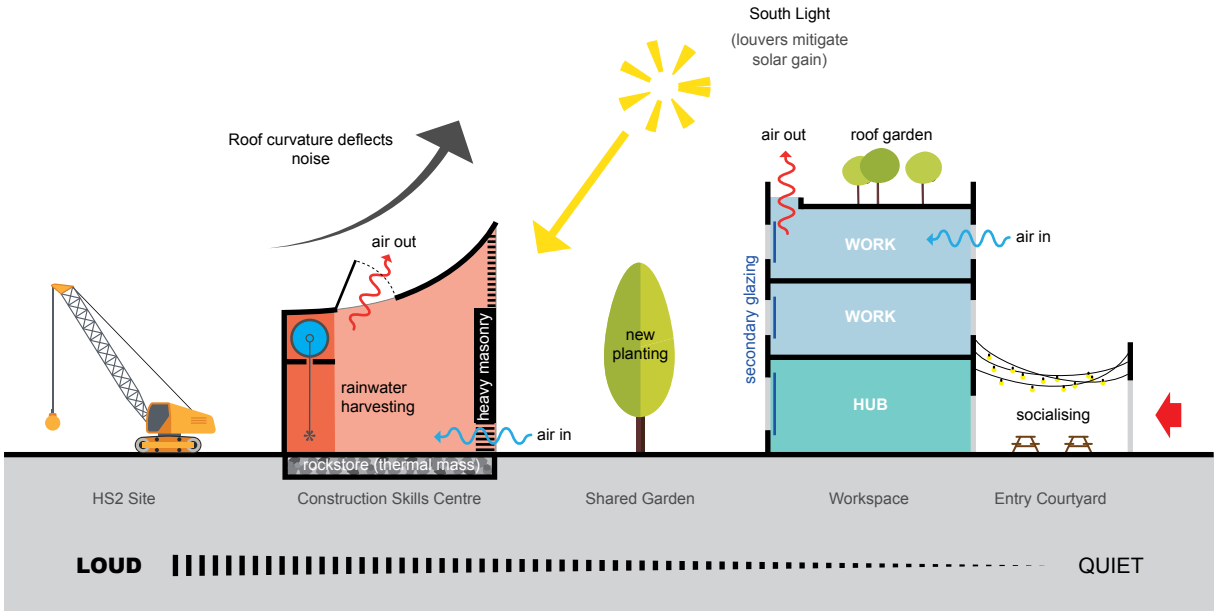
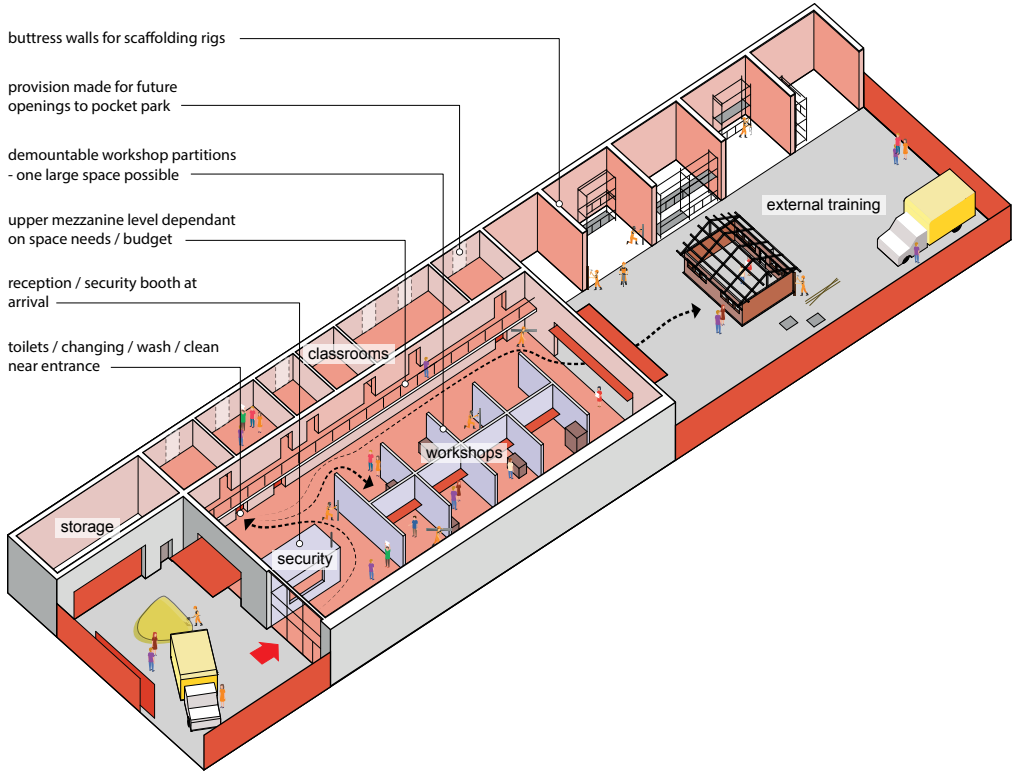
The brief consisted of three distinct parts:

- Development of a new Construction Skills Centre at the rear of the site, providing a facility for the training of local apprentices in the community.
- Renovation of the existing three-storey Victorian school into contemporary co-working office space and adjoining cafe.
- Creation of a new public open space and landscaping to the south of the site.

This project is currently in Developed Design.



ROLE
Architectural Designer / Project Leader



CLIENT
London Borough of Camden

Heathrow Hotel

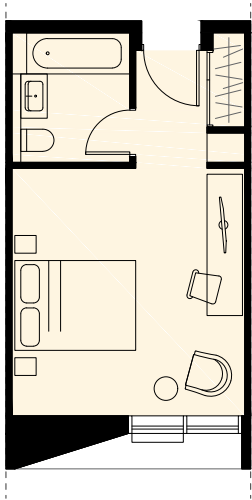
FBM ARCHITECTS

Design of a new 326 bedroom, 4 star hotel next to Heathrow Airport in London. Under the guidance of the Office Principal, I currently lead this project, which was recently submitted for full planning approval.

Primary Responsibilities:

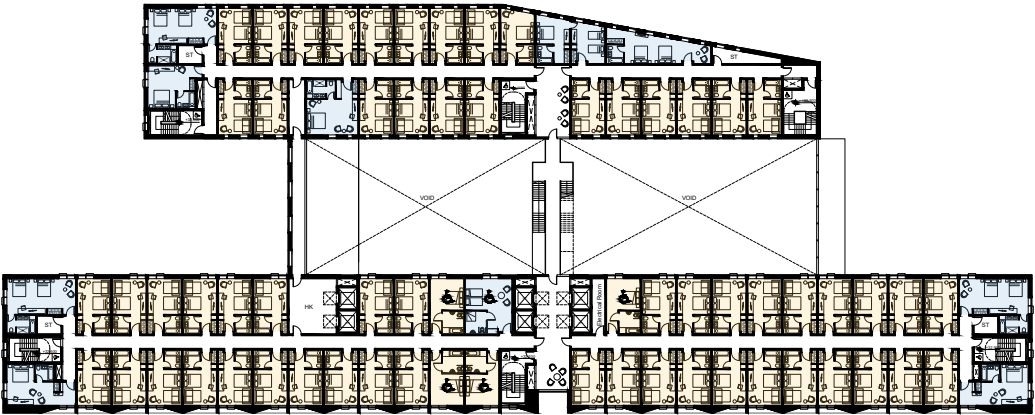
- Researching best practice in hotel design and developing a layout that matched to the client's expectations.
- Overseeing junior team members and coordinating with external consultants (planning, MEP, structure, acoustic).
- Production of architectural documents for planning submission and liaising with Planning Officers via in-person meetings and written correspondence in order to achieve planning approval.
- Advising the client in their discussions with hotel operators.

This project is currently in Developed Design.



↑ TYPICAL BEDROOM LAYOUT
↓ VIEW FROM MOTORWAY
(RENDERING BY KUWICKI STUDIO)

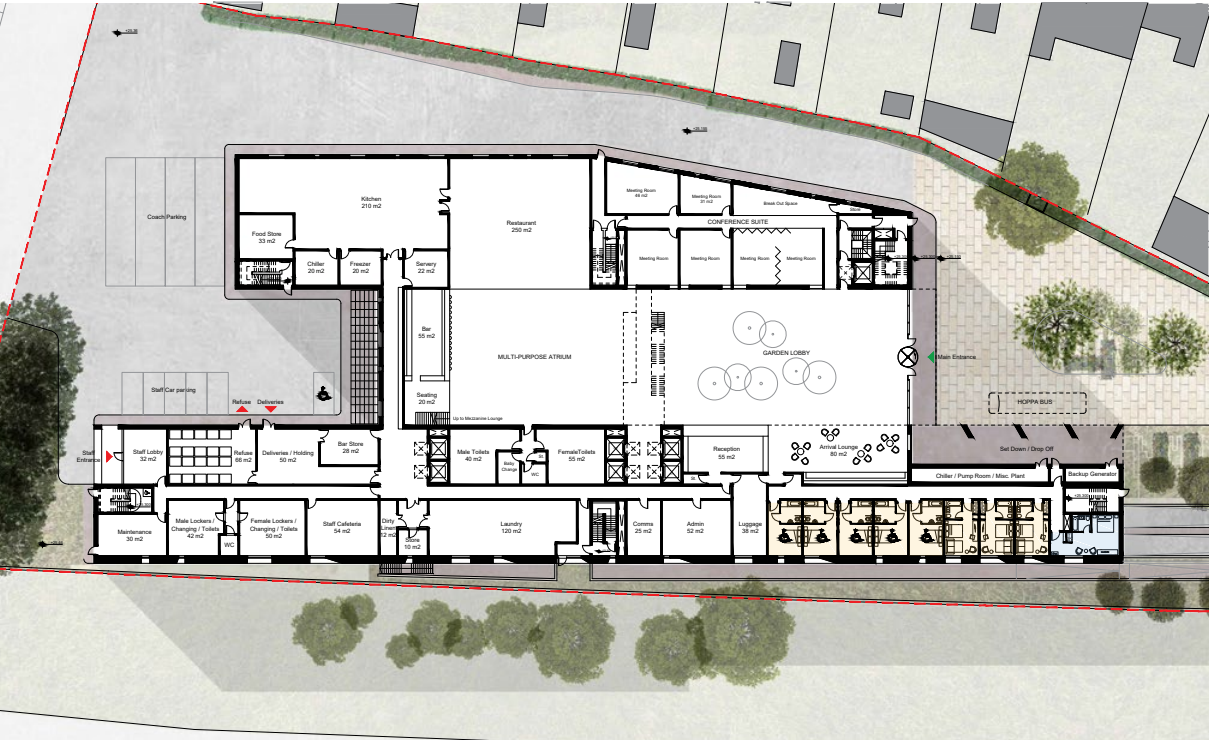
London, UK
Fall 2017 - present



↑ TYPICAL UPPER FLOOR PLAN
↓ GROUND FLOOR PLAN



ROLE
Architectural Designer / Project Leader



CLIENT
Elite Group

Heathrow Hotel

FBM ARHICTECTS

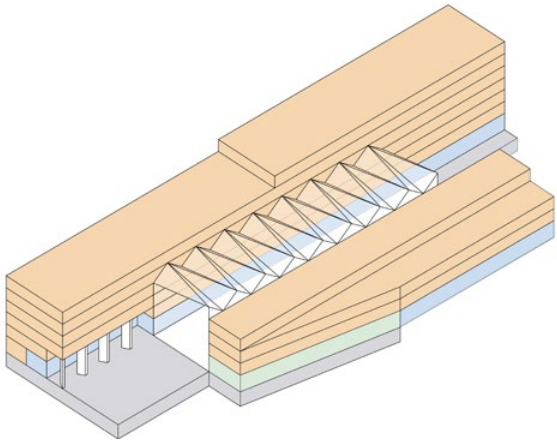
London, UK
Fall 2017 - present

The hotel is organised as two blocks of accommodation with a central atrium space between. The constraints of the site geometry and the proximity to neighbouring residential properties dictates that the larger volume faces the busy motorway to the east, with the smaller block to the west.

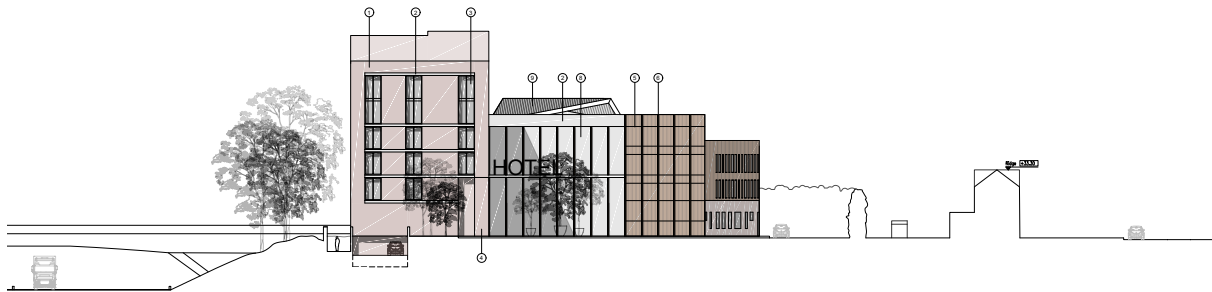
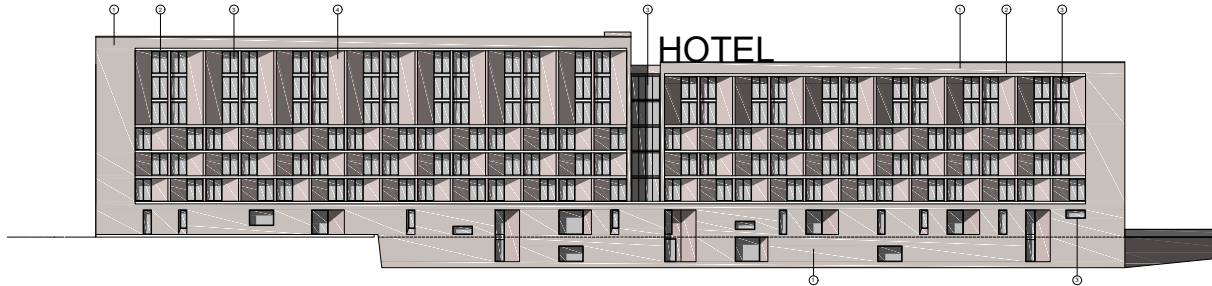
The generous light-filled atrium is the main public space off of which the primary hotel facilities are located - restaurant, bar, conference suite, and leisure centre. The vertical core is located in the centre of the larger block, with bridge links providing access to the smaller accommodation wing. This mitigates the need for a second primary core and animates the central space by moving people horizontally across it.

The external treatment of the facade attempts to create something of heft and significance in an area dominated by bland hotel exteriors. The chosen brick material is in keeping with the surrounding residential context.

- Accommodation
- Administration
- Leisure Centre
- Conference Centre
- Car Parking



↑ ORGANISATION DIAGRAM
↓ VIEW FROM ARRIVAL COURT
(RENDERING BY KUWICKI STUDIO)



CLIENT
Elite Group



IBM Hub

FBM ARCHITECTS

Winchester, UK
2017

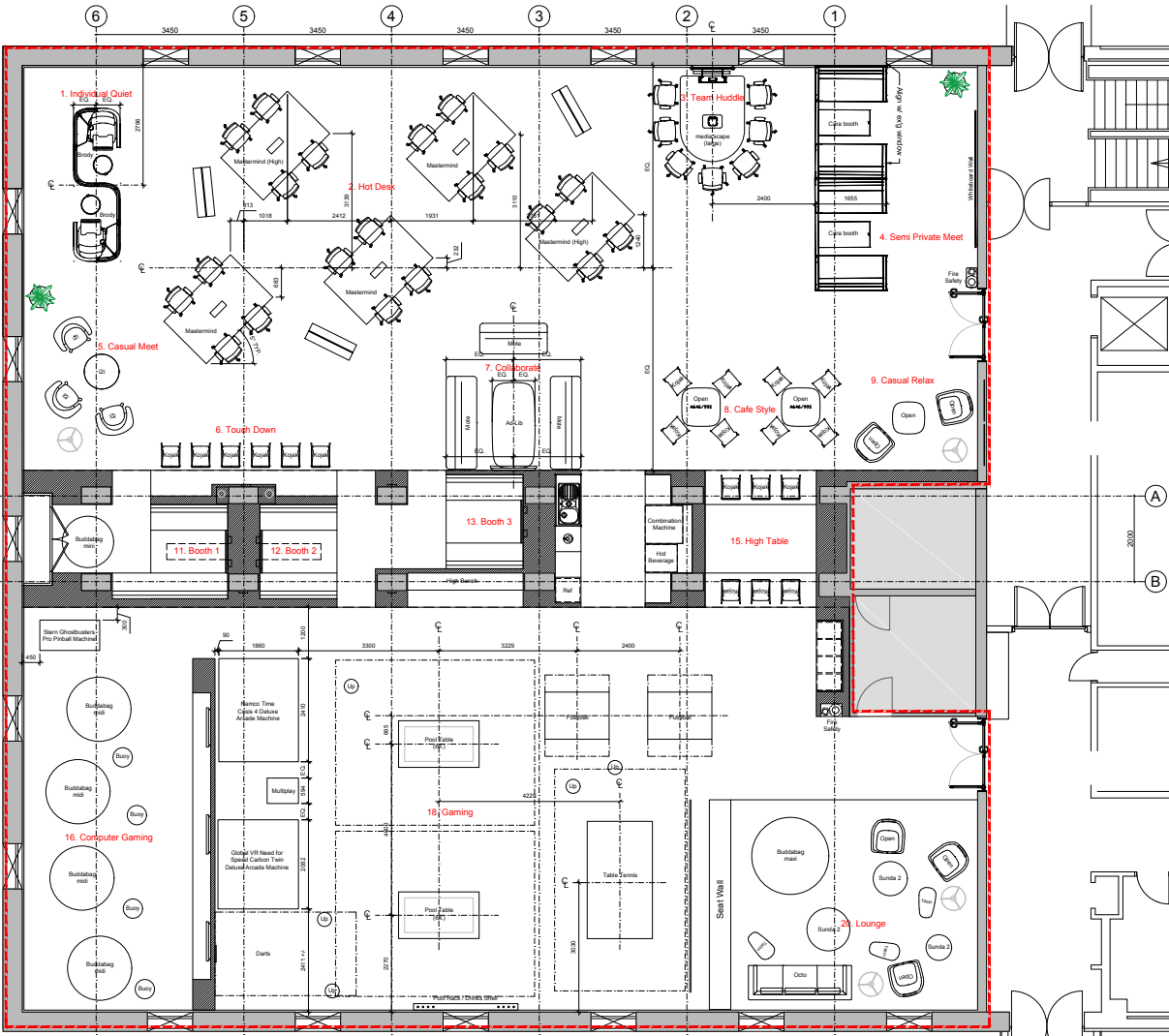
Full interior renovation of 5000 sq.ft. redundant office space at IBM Hurlsey, IBM's research and development campus in southern England. I led this project from schematic design through to handover and close out.

Primary Responsibilities:

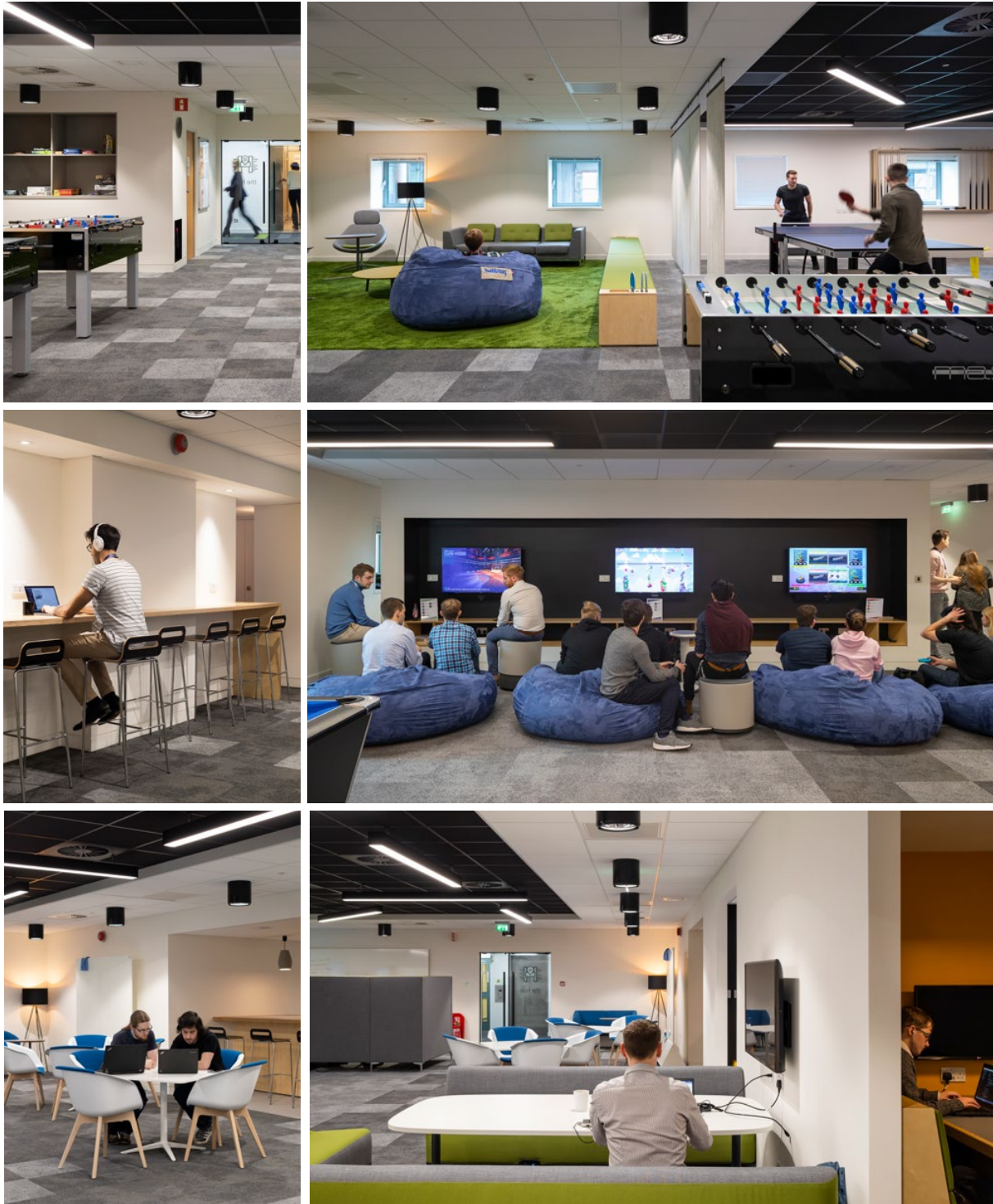
- Architectural coordination with client and consultant teams.
- Internal budgeting, scheduling and project management.
- Production of bid documents and assisting in selection of contractor.
- Procurement of all furniture items in line with project schedule.
- Site inspections and resolving of issues that arose on site.



↑ EXISTING CONDITION
↓ AS-BUILT GA PLAN



ROLE
Architectural Designer / Project Leader



CLIENT
IBM / CBRE

East Harlem Development Plan

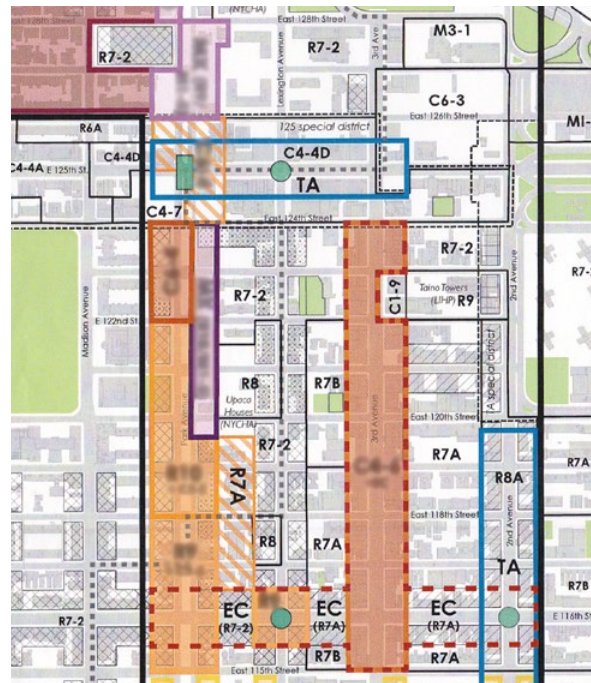
NYC DEPARTMENT OF CITY PLANNING

Assisting in the development of city planning policy, zoning review of large-scale urban developments, neighbourhood analyses and site-specific urban design studies.

Working out of the Manhattan Office, I worked on the current re-zoning of the East Harlem neighbourhood in Upper Manhattan, with the aim of providing more development opportunities, particularly for affordable housing. This was tied to Mayor Bill de Blasio's key ten year plan for an Affordable New York

Primary Responsibilities:

- Zoning analysis and 3D massing visualisations
- 'Soft site' analysis utilising GIS data and Excel
- Illustrative mapping
- Powerpoint presentations



71 PRELIMINARY EAST HARLEM ZONING FRAMEWORK

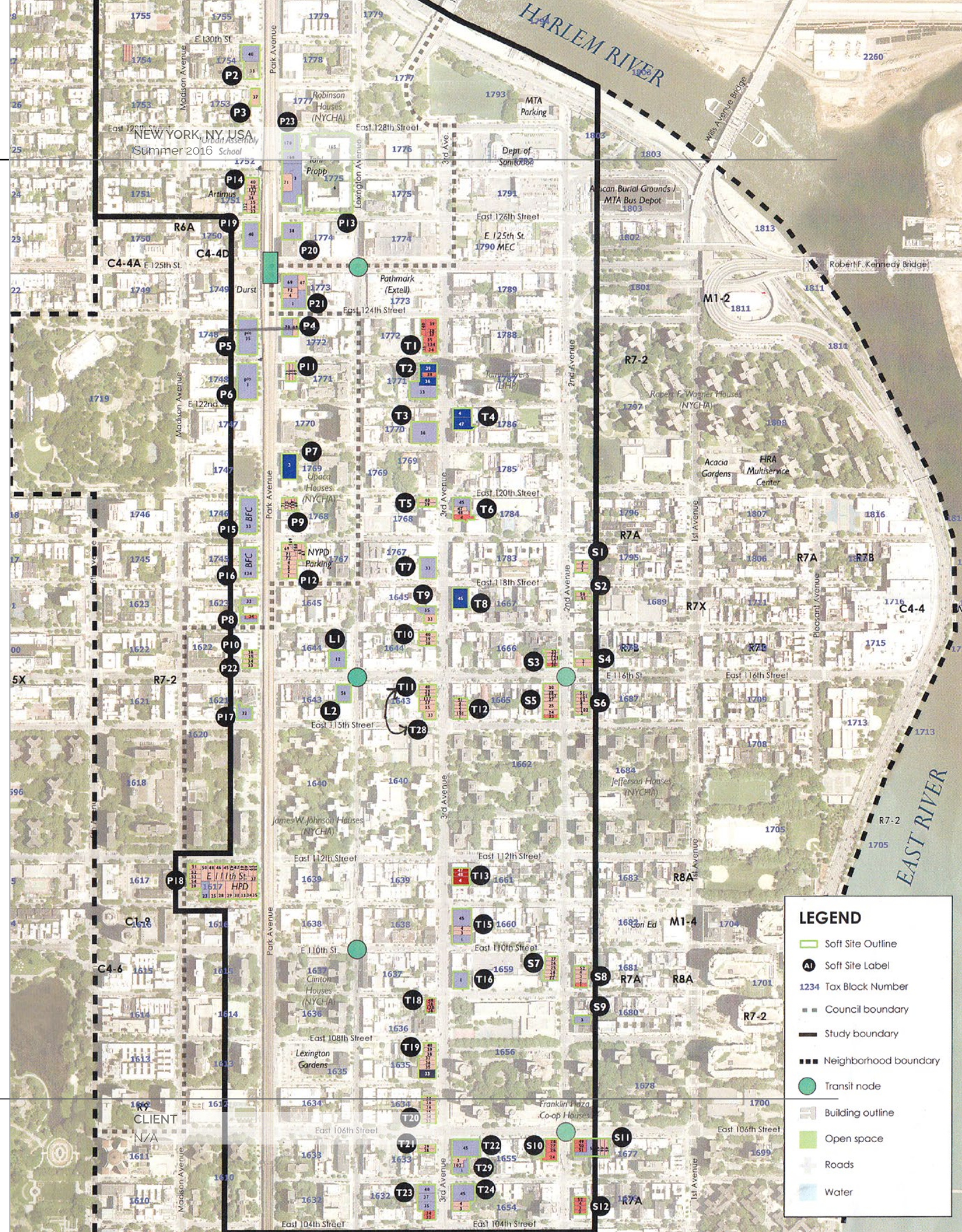
→ 'SOFT SITE' ANALYSIS

↓ PROPOSED MASSING SCENARIOS AT 125TH STREET STATION



ROLE

Urban Design | Planning Assistant



Zoning Analysis & Illustration

ENVELOPE

NEW YORK, NY, USA
Fall 2016

Envelope is a software company, spun out of a longtime collaboration between award-winning SHoP Architects and the Director of MIT's Civic Data Design Lab. The primary product enables instant, dynamic 3D visualisation of the development potential of all zoning lots in NYC.

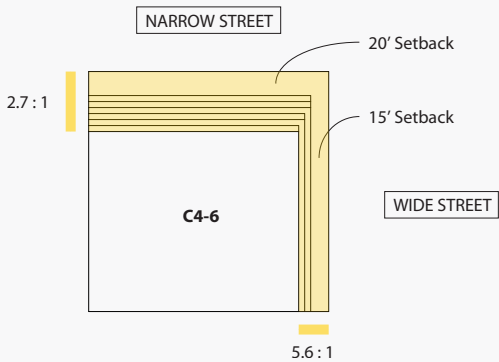
Utilizing my experience at the NYC Department of City Planning and my familiarity with NYC zoning laws, I worked with the team to conduct quality analysis in the lead up to the beta release of their first product. I also translated relevant aspects of complicated zoning text into legible diagrams, to be used as an internal resource for a software team unfamiliar with standard zoning concepts.

Primary Responsibilities:

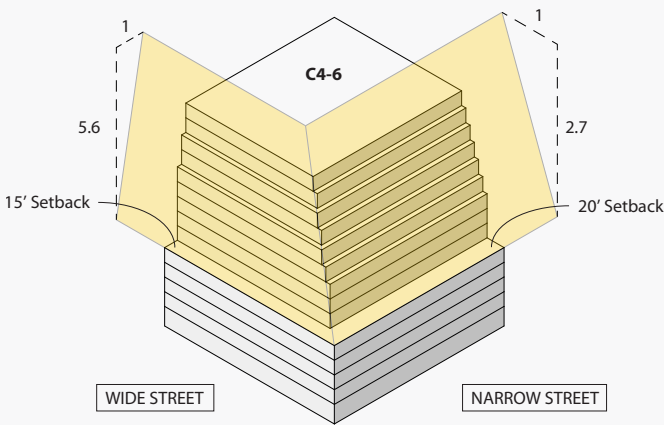
- Collating list of test sites from open source data (PLUTO)
- Quality Analysis of test sites against zoning codes and frameworks.
- Illustration of zoning laws for in-house manual.

I continue to work with Envelope on a freelance consultancy basis.

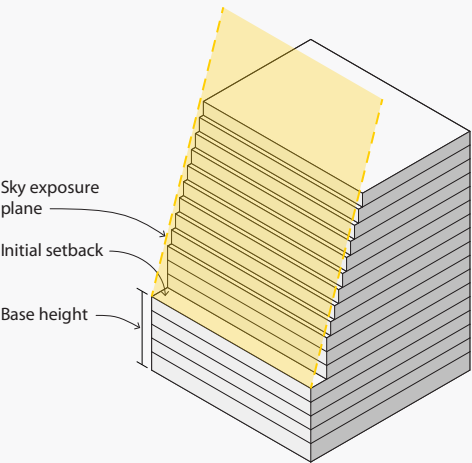
SETBACKS



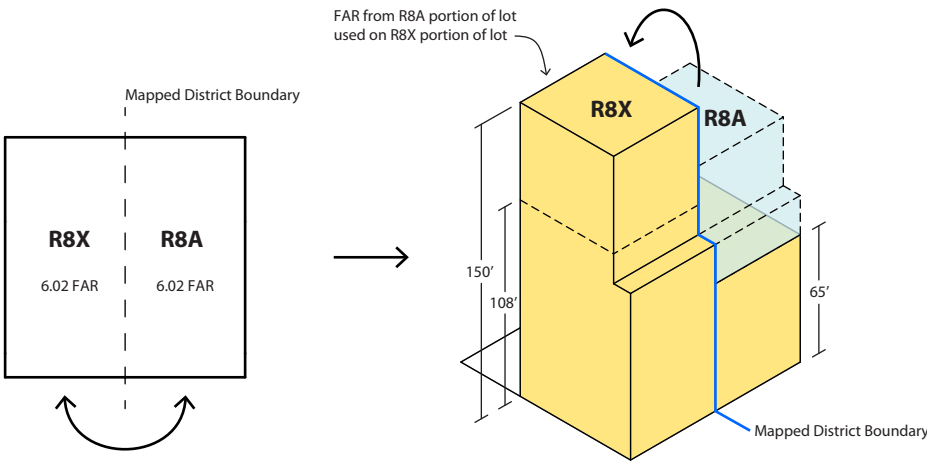
WIDE VS. NARROW STREET



SKY EXPOSURE PLANE

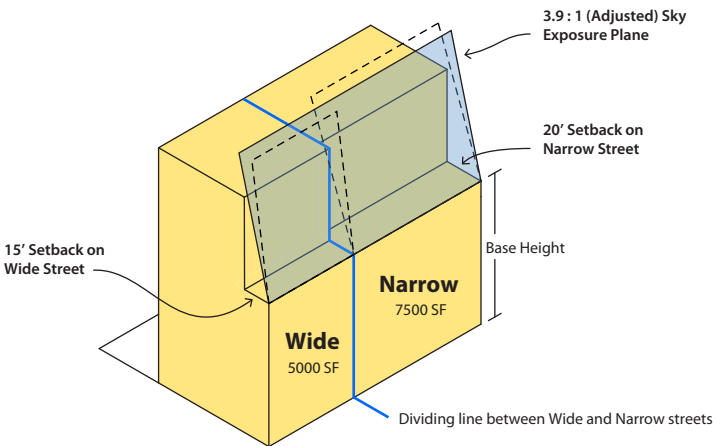


FLOOR AREA RATIO (FAR) TRANSFER



FAR allowed to move freely around zoning lot

ADJUSTED SKY EXPOSURE PLANE



Sky Exposure Plane

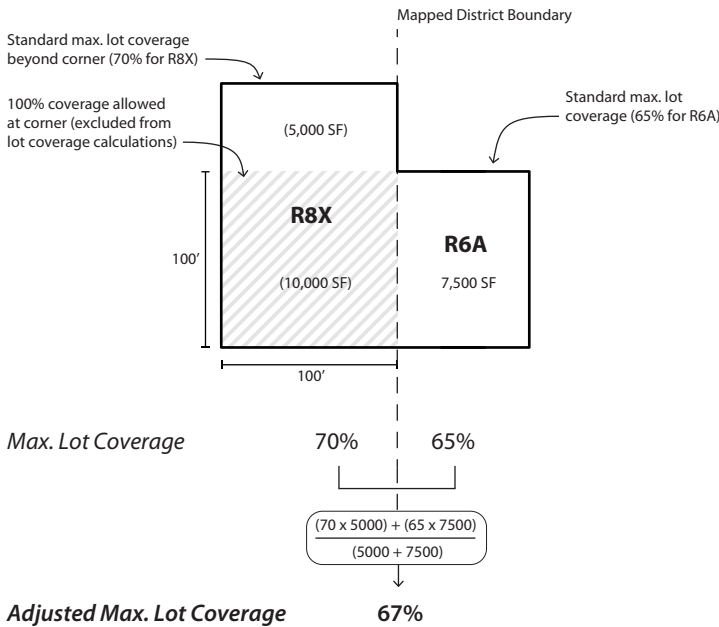
5.6 : 1 (wide) 2.7 : 1 (narrow)

$$\frac{(5.6 \times 5000) + (2.7 \times 7500)}{(5000 + 7500)}$$

Adjusted Sky Exposure Plane

3.86 : 1

LOT COVERAGE @ CORNER



ROLE
Zoning Analyst / Illustrator

CLIENT
N/A

The L Train Shutdown

URBAN DESIGN FORUM

This proposal considers the imminent shutdown of the L train as a unique opportunity, one that forces us to implement viable transportation alternatives for commuters between Brooklyn and Manhattan.

This proposal was a response to the Urban Design Forum's "Onward: Mobility in the Next New York" open call for ideas.

LEGEND


- Existing bicycle corridor
- Existing SBS bus corridor
- Existing ferry route
- Existing ferry terminal
- Existing L train station
- Proposed bicycle corridor (closed to private cars)
- Proposed bike share station
- Proposed SBS bus corridor (closed to private cars)
- Proposed ferry route
- Proposed ferry terminal
- Proposed pedestrianized streets
- Proposed redeveloped subway station




NEW YORK, NY, USA
Summer 2016

NO L MEANS MORE J M A G





PEDESTRIANIZE



The situation demands that alternatives of ferry, bicycle, and bus rapid transit. A new express ferry service could ship commuters directly across the water from Williamsburg to midtown, bypassing current stops further north in Queens. 14th Street could be closed to traffic, with dedicated bus and bicycle lanes. Express ferries could link up with the existing terminal at 34th Street, and the M34-SBS.

Finally, there is an opportunity to redefine the area around the Beford Avenue L stop, the heart of an ever-growing Williamsburg neighborhood.

PROPOSAL
ONWARD: Mobility in the Next New York

Engine Company 23

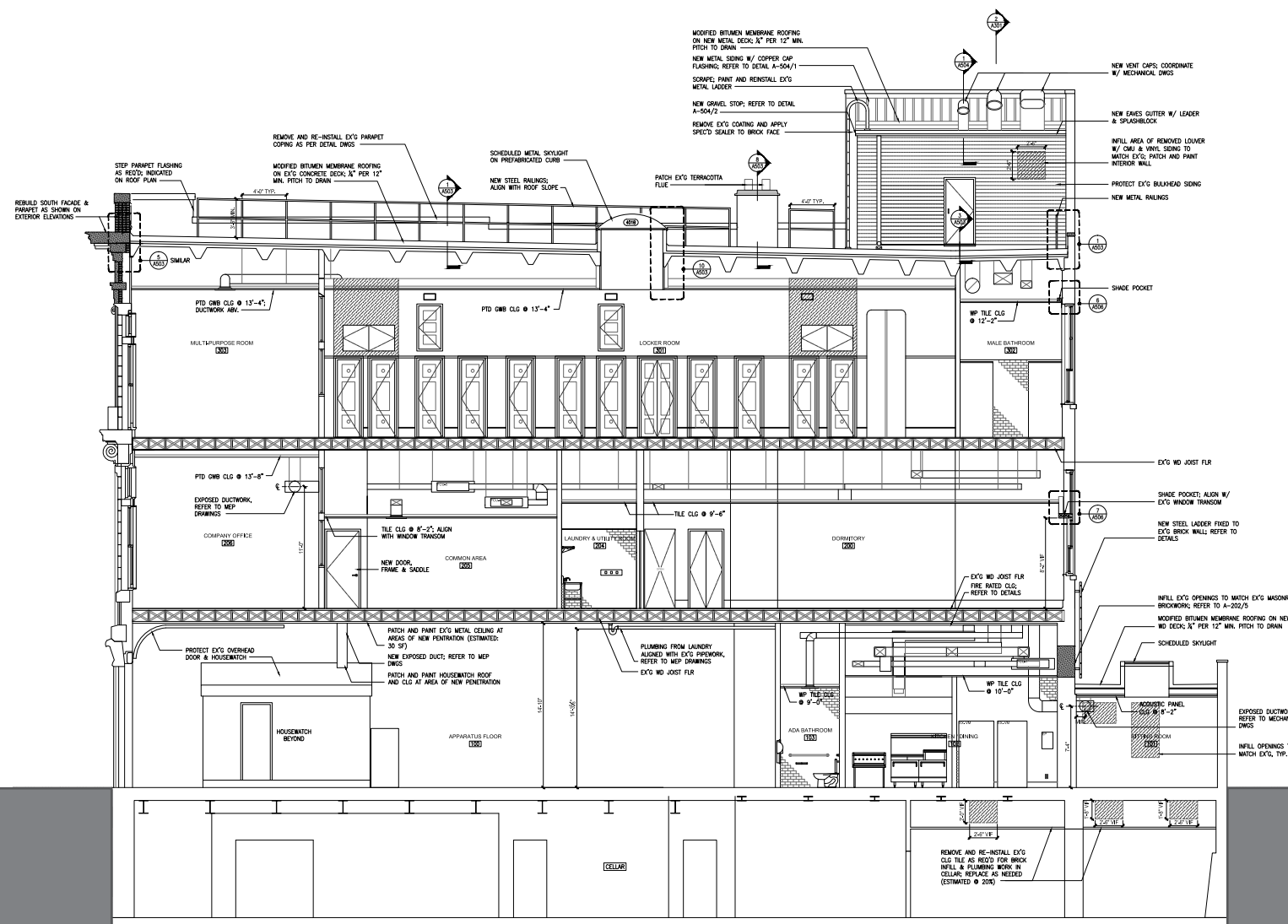
BELMONT FREEMAN ARCHITECTS

NEW YORK, NY, USA
2014 - 2016

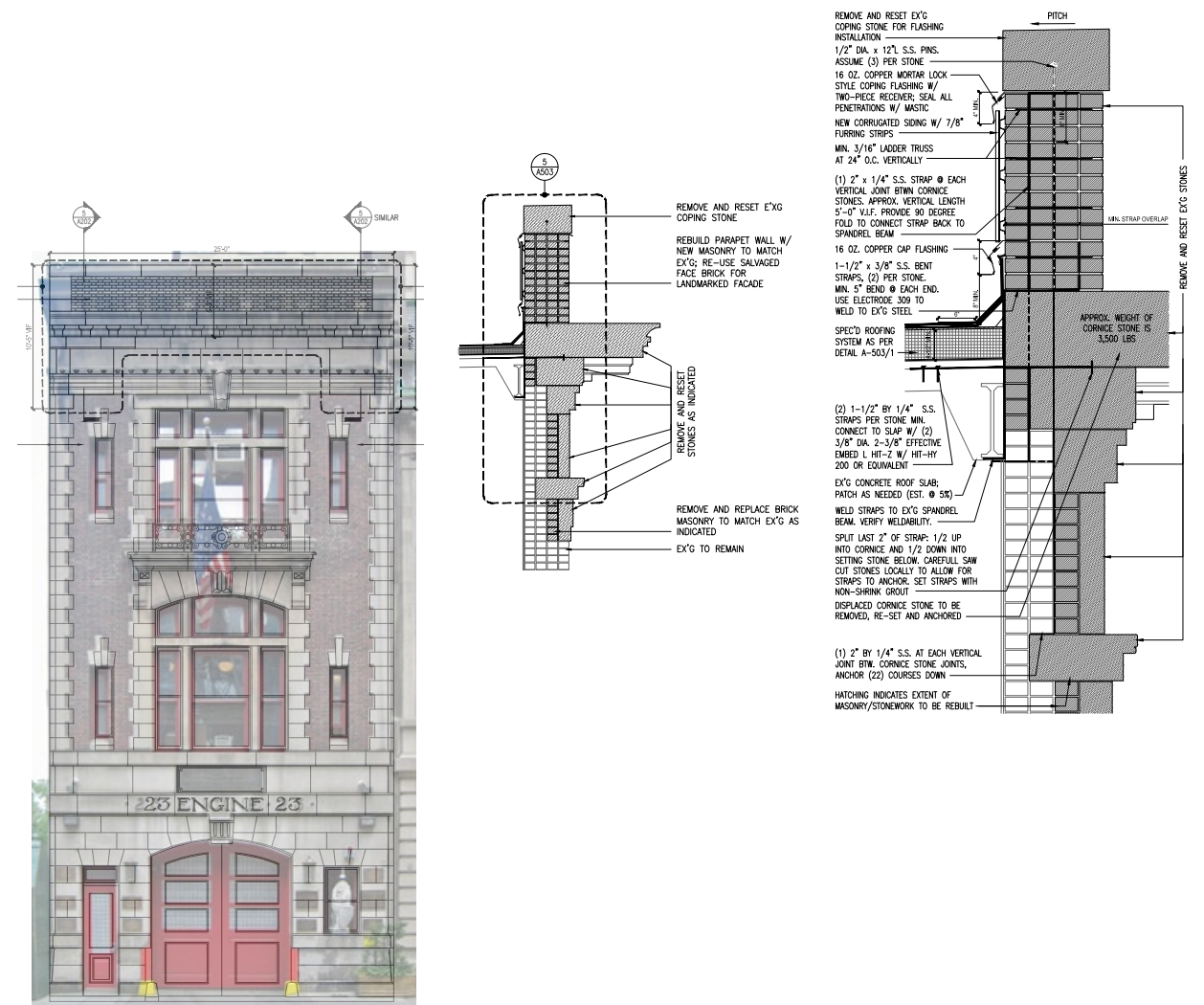
Interior and exterior renovation of Engine Company 23, a Landmark, Beaux-Arts fire house in midtown Manhattan. The program includes new kitchen, dining, lounge, and living quarters as well as restoration of the historic masonry facade.

Primary Responsibilities:

- Design development and project management from SD to CD (project lead).
- Production / preparation of biddable design documents leading to contract award. Preliminary CA.
- Coordination with client agencies, MEP engineers, and specialist sub-consultants.
- Leading DDC / FDNY client meetings; Preparing agendas and meeting minutes.
- NYC DOB Building Code / Zoning Resolution research to achieve regulatory approvals. LPC filing.



ROLE



CLIENT

FDNY, NYC Department of Design and Construction

Martha's Vineyard Residence

BELMONT FREEMAN ARCHITECTS

A new house on twenty-nine acres of ocean-front property in Chilmark. The wood and glass structure will be low and modestly scaled to sit gently on the terrain. It consists of a 1,450 sf one-bedroom residence attached by a breezeway to a 950 sf spa with indoor lap pool. The project is designed to Passive House standards for optimal sustainability. Automated shutters of perforated stainless steel provide shading to the 120-foot-long south-facing glass facade when raised, and storm protection when closed. The project includes extensive landscaping to protect fragile wetlands and restore the meadows of the former sheep farm.

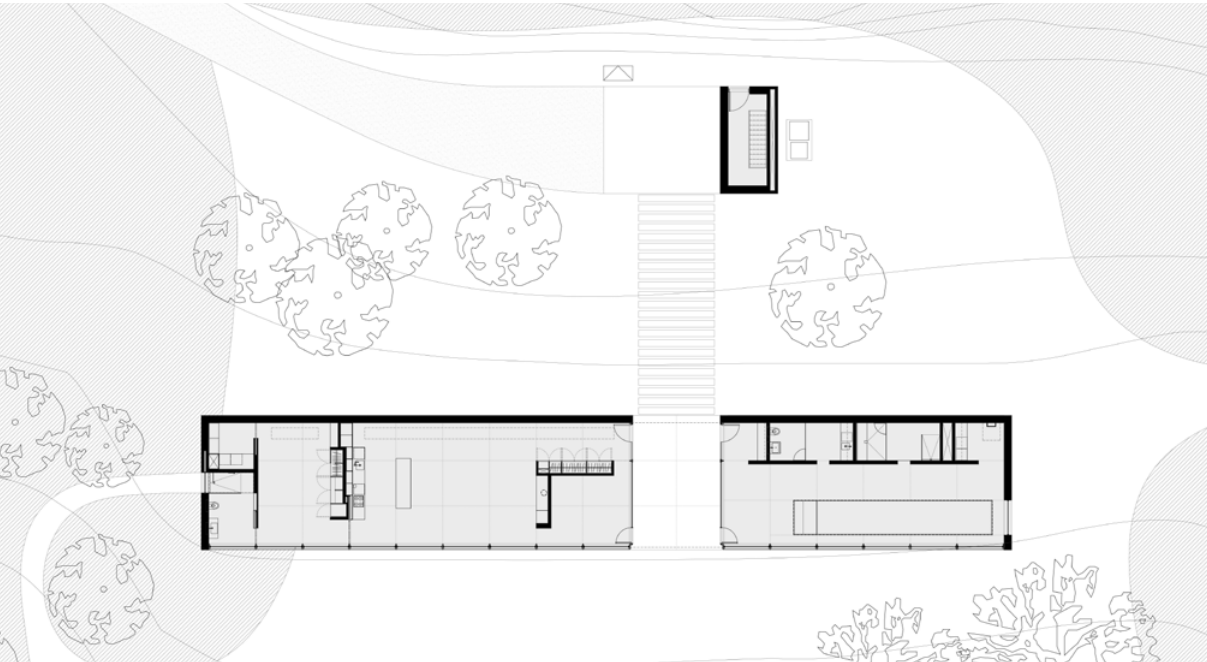
I worked with the firm's Principal and Project Architect during design development and preliminary construction document phases.

Primary Responsibilities:

- Design Development drawings
- 3D modelling and rendering
- Model making
- Product and material specification and research



↑ SITE LOCATION PLAN
↓ GROUND FLOOR SITE PLAN



ROLE
Architectural Designer

CHILMARK, MA, USA
2014 - 2016



↑ PROGRESS RENDERINGS
↓ ARRIVAL WITH VIEW TO SEA (RENDERING)



CLIENT
Private

INTERNATIONAL HOUSE NYC

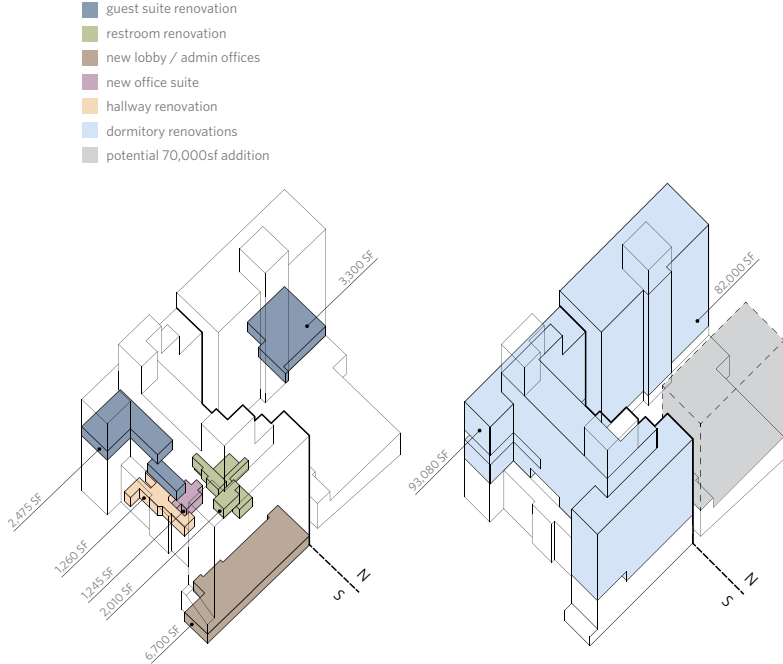
BELMONT FREEMAN ARCHITECTS

NEW YORK, NY, USA
Fall 2012 - Spring 2013

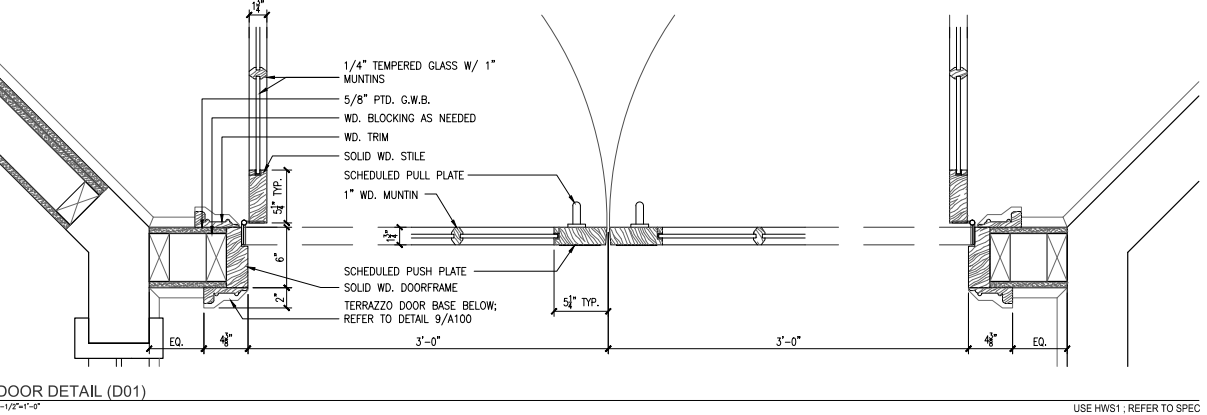
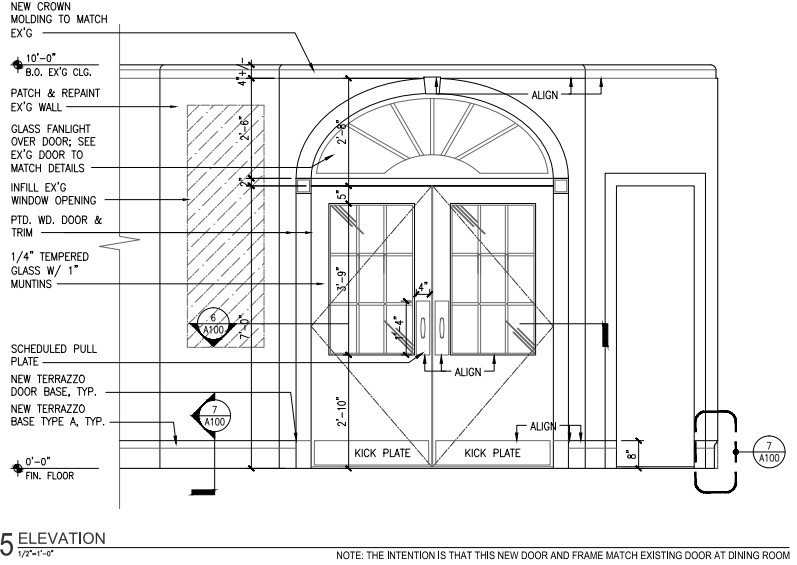
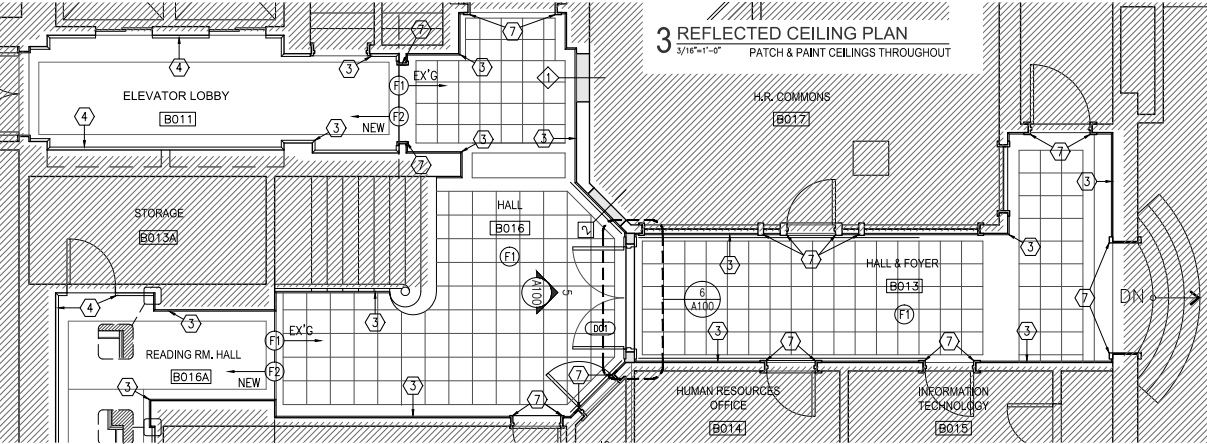
Master plan, zoning analysis, and phased renovation project for International House, a student residence and cultural institution. Located on Riverside Drive in Manhattan, I worked on the execution of a series of renovations including a new entrance and lobby, in progress. I led design and coordination of a multi-year renovation of resident rooms in two buildings.

Primary Responsibilities:

- Building survey and analysis
- Production of Building Assessment Report
- Presentation materials for I-House staff and board.
- Design development (all phases)



ROLE
Architectural Designer / Project Leader



CLIENT
International House NYC

159 Madison Avenue

BELMONT FREEMAN ARCHITECTS

NEW YORK, NY, USA
Summer 2015 - Spring 2016

Gut renovation of a 1911 co-operative top floor apartment in midtown Manhattan. Existing ceilings were removed, giving + 5'-0" additional height and allowing construction of a loft space. Minimal white palette of materials and custom designed elements throughout, including metal and wood stair, bathrooms and kitchen.

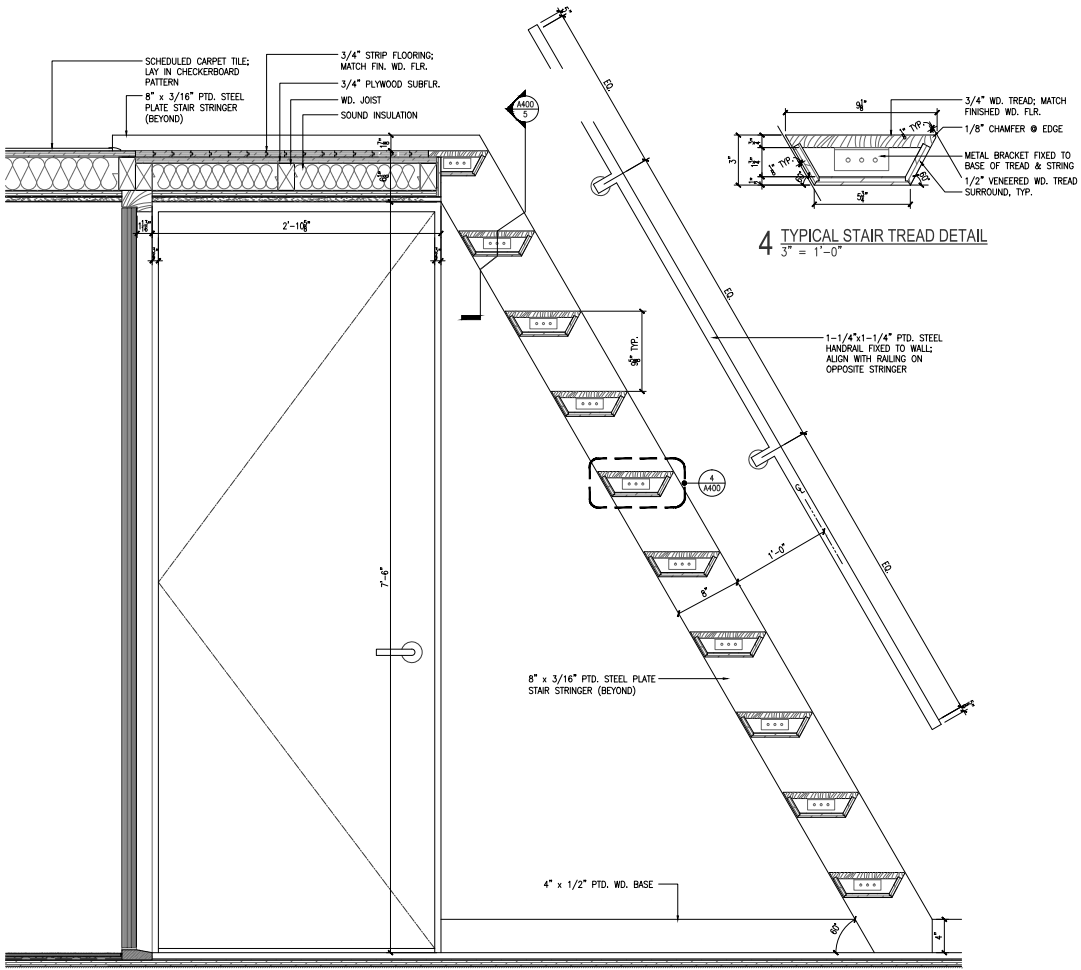
I worked with the firm's Associate Principal on this project from start to completion. This was the first time I took a lead role during construction administration, meeting with the general contractor on a weekly basis, responding to RFI's, and reviewing shop drawings / submittals.

Primary Responsibilities:

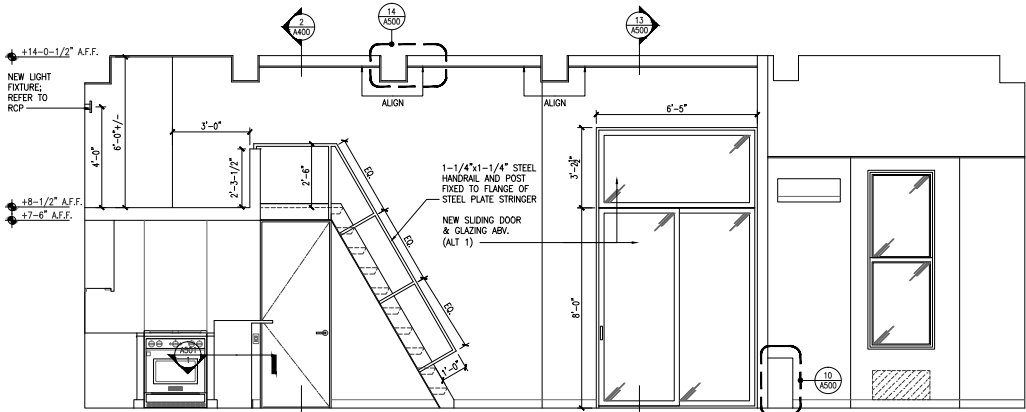
- Client meetings / communications
- Production / preparation of biddable design documents
- Code research and securing of Co-op / DOB approval
- Construction Administration and project close out



↑ NEW KITCHEN WITH LOFT ABOVE
↓ CUSTOM METAL AND WOOD STAIR



3 SECTION THROUGH STAIRS - NORTH
1-1/2" = 1'-0"



1 SECTION AA - NORTH
3/8" = 1'-0"

ROLE
Architectural Designer

CLIENT
Private

LSE GCSS & Kingston University

GRAFTON ARCHITECTS

LONDON, UK
Fall 2013



↑ ARRIVAL PERSPECTIVE [KINGSTON UNIVERSITY]
↓ AUDITORIUM PERSPECTIVE [KINGSTON UNIVERSITY]



ROLE
Architectural Designer

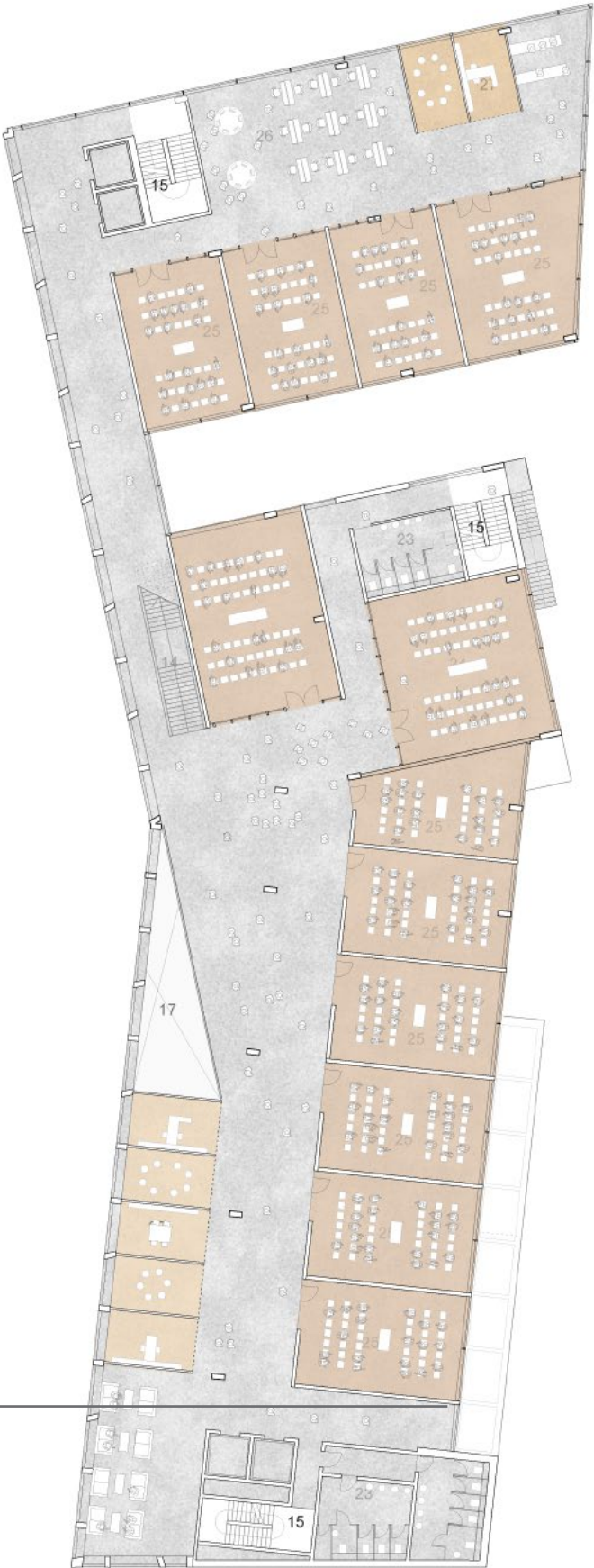
I joined Grafton Architects to assist in the design and development of two competition entries for major UK universities: the London School of Economics and Kingston University. Our proposal for the latter was awarded first prize, whilst the former was one of 5 shortlisted entries amongst firms including OMA, Rogers Stirk Harbour + Partners, and Hopkins Architects.

I worked closely with the lead architects to formulate final plans and layouts, coordinated with the structural engineer and landscape architect, and produced project images and final board layouts in an intensive, team-based office environment.

→ GROUND FLOOR PLAN [LSE GCSS]
↓ CROSS SECTION [LSE GCSS]



CLIENT
RIBA / London School of Economics / Kingston University



Spenner Zement HQ

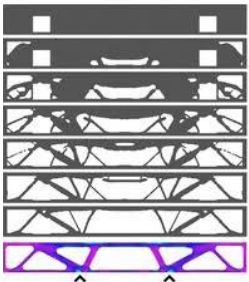
BOLLES-WILSON

ERWITTE, GERMANY
Spring 2011 - Summer 2011

Our team won first prize in an architectural competition for the design of this iconic HQ. The office deck is balanced on a considerably smaller ground floor, with the ingenuity of the project being the design of the beam. Working with closely with the structural engineer, a parametric optimizing program removes redundant concrete to create the most minimal truss possible.

Primary Responsibilities:

- Presentation diagrams, drawings and images



- ↑ INTERIOR RENDERING OF MANAGER'S OFFICE
- ↗ 'THE BEAM IS THE SCHEME' - PARAMETRIC OPTIMIZATION DIAGRAM
- EXTERIOR RENDERING
- ↓ COMPETITION WINNING IMAGE; BERM HIDES PARKING AREA



ROLE
Architectural Designer

CLIENT
Spenner Zement GmbH & Co. KG



Xujiahui Air Promenade

MADA S.P.A.M.

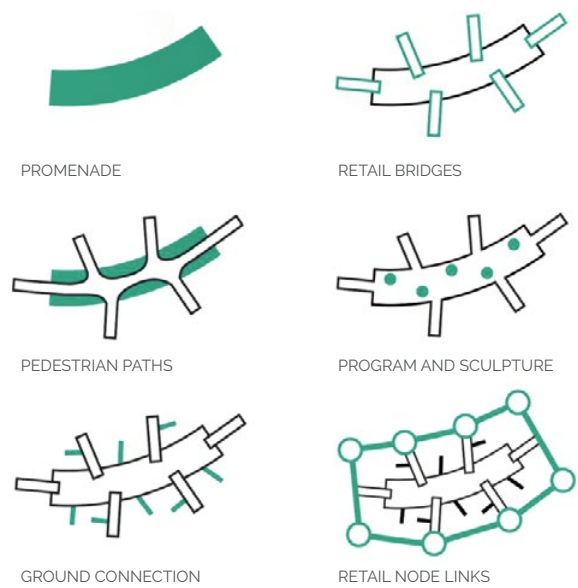
SHANGHAI, CHINA
Fall 2010

At the crossroads of one of Shanghai's busiest intersections lies 3 metro lines, 7 roads, an urban park, and Shanghai's highest grossing shopping district. The problem created by the congestion has manifested itself solely by impeding pedestrian life.

Our team created an elevated promenade to connect the various malls, the ground surface, and the metro system. Alleys and underutilized plaza areas are incorporated to produce a better street life and storefront retail areas. Program along the promenade creates a place to stay, to meet, and to stroll.

Primary Responsibilities:

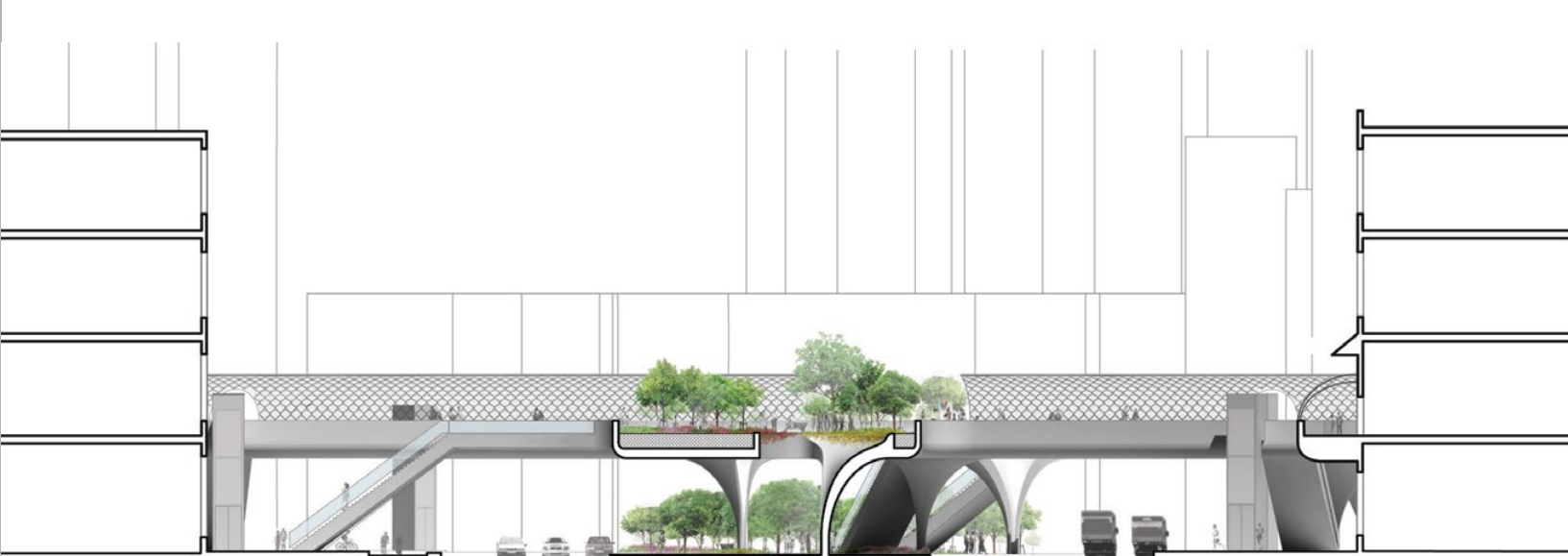
- Concept research and brainstorming
- Presentation diagrams, drawings and images



↗ PROJECT DIAGRAMS
↘ AERIAL VIEW (RENDERING BY HELIXSCAPE VISUALIZATION STUDIO)



ROLE
Architectural Designer



↑ PERSPECTIVE SECTION
↓ CONCEPTUAL MASTERPLAN



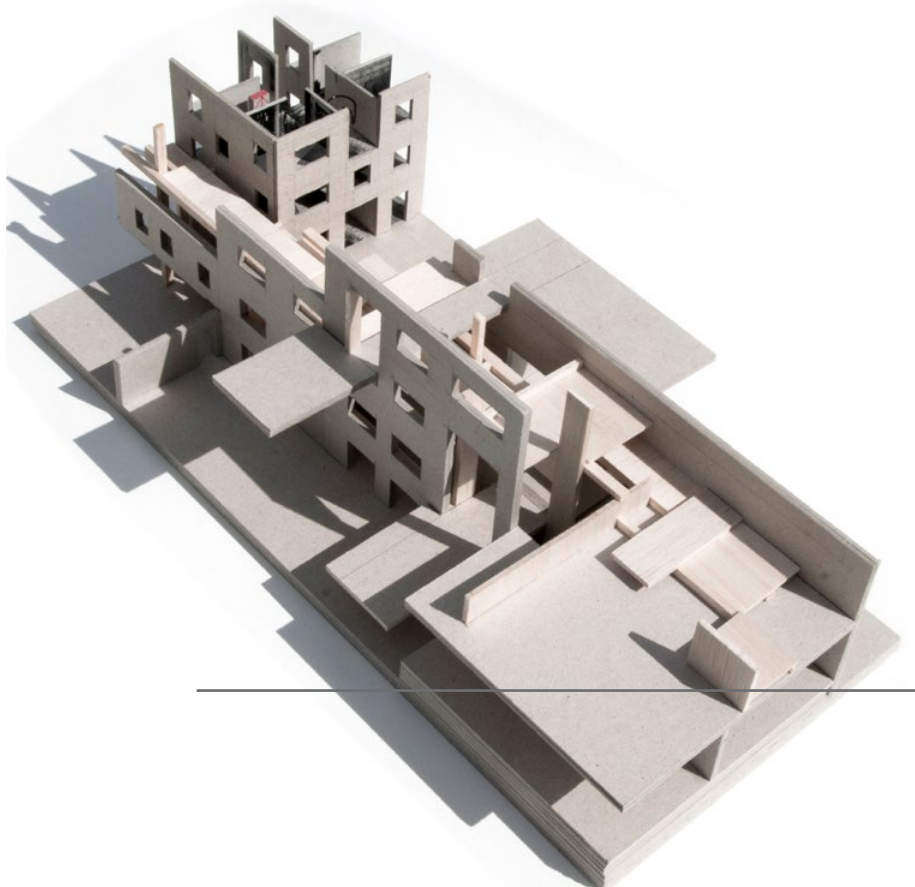
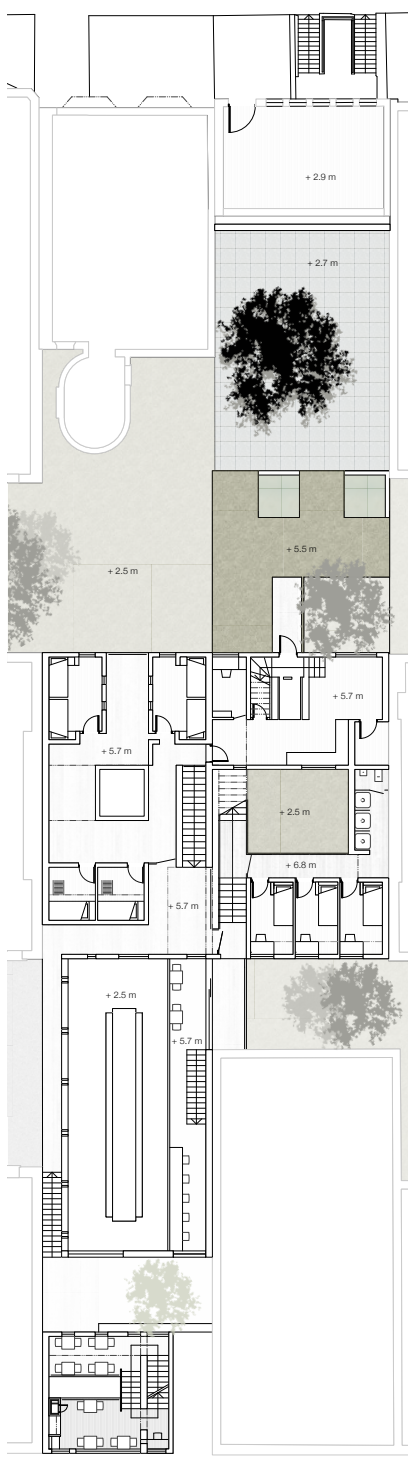
CLIENT
Xuhui People's Government

THE ARCHITECTURE OF CURIOSITY

THESIS PROJECT

Inspired by ideas of 'the unknown', this Masters thesis proposed that an inherent curiosity can act to draw people through space, to explore what lies just out of view, just out of reach. The project provides a house for writers, in the form of a dormitory. A series of tea rooms acts as a screen to the street, while a dining hall links the house to the city, and the city to the house.

The intervention interacts with the existing fabric through a compress and release of spaces, both interior and exterior. This brings inside outside, and outside inside.



GLASGOW, UK
Fall 2012 - Spring 2013



*What do we see when we round
that corner, open that door?
Where is that light coming from...?
Oh look out the window!*

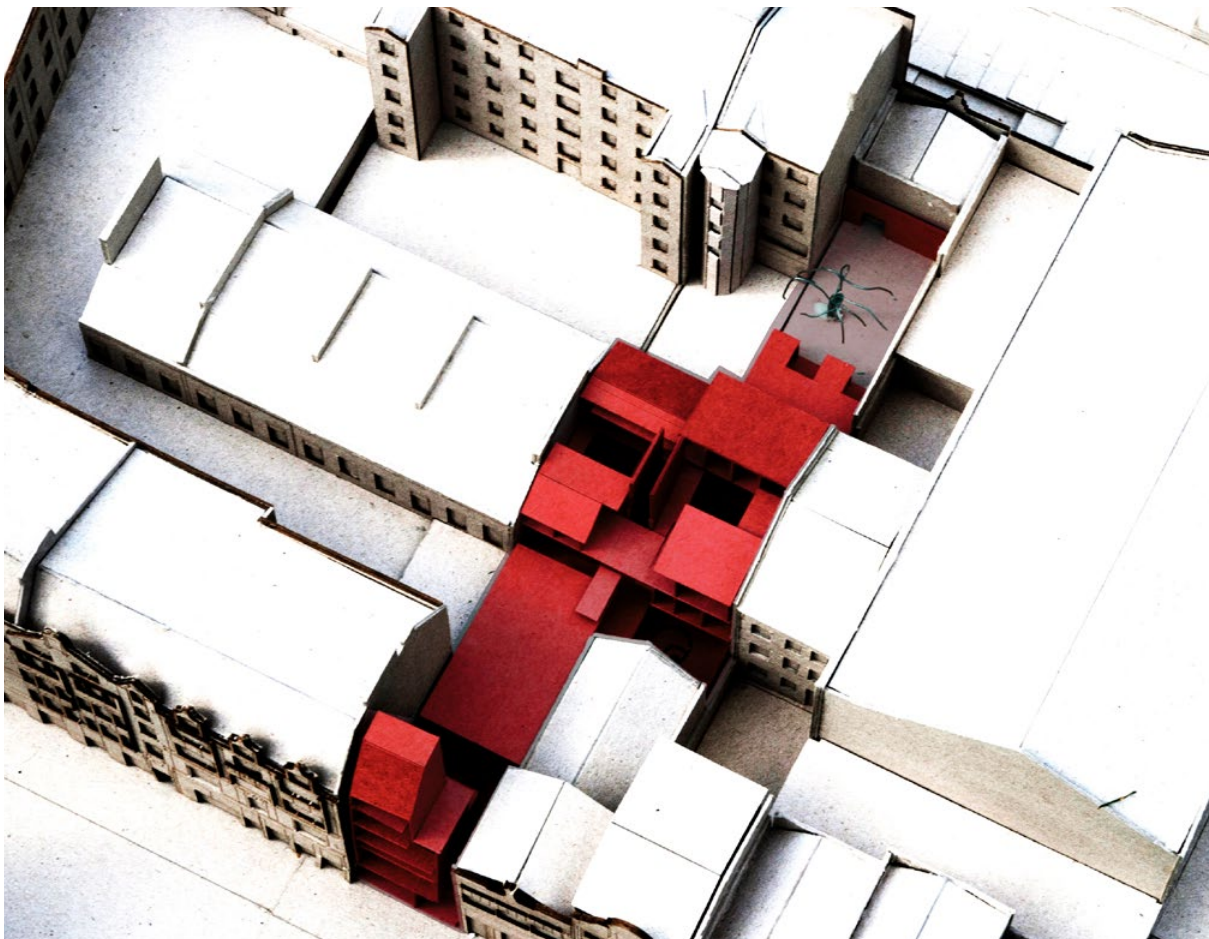


PROFESSORS
Peter Cody, Chris Boyle

THE ARCHITECTURE OF CURIOSITY

THESIS PROJECT

GLASGOW, SCOTLAND
Fall 2012 - Spring 2013



↑ SITE MODEL - 'CONTEXTUAL WEAVE'
↓ SITE SECTION



PROFESSORS
Peter Cody, Chris Boyle

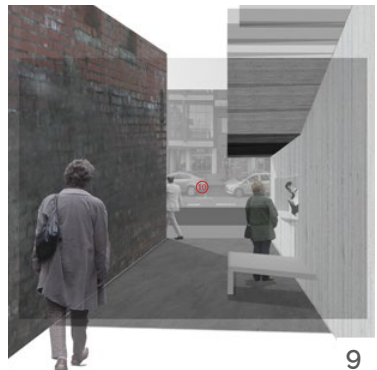
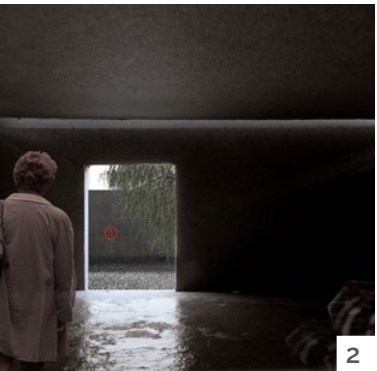
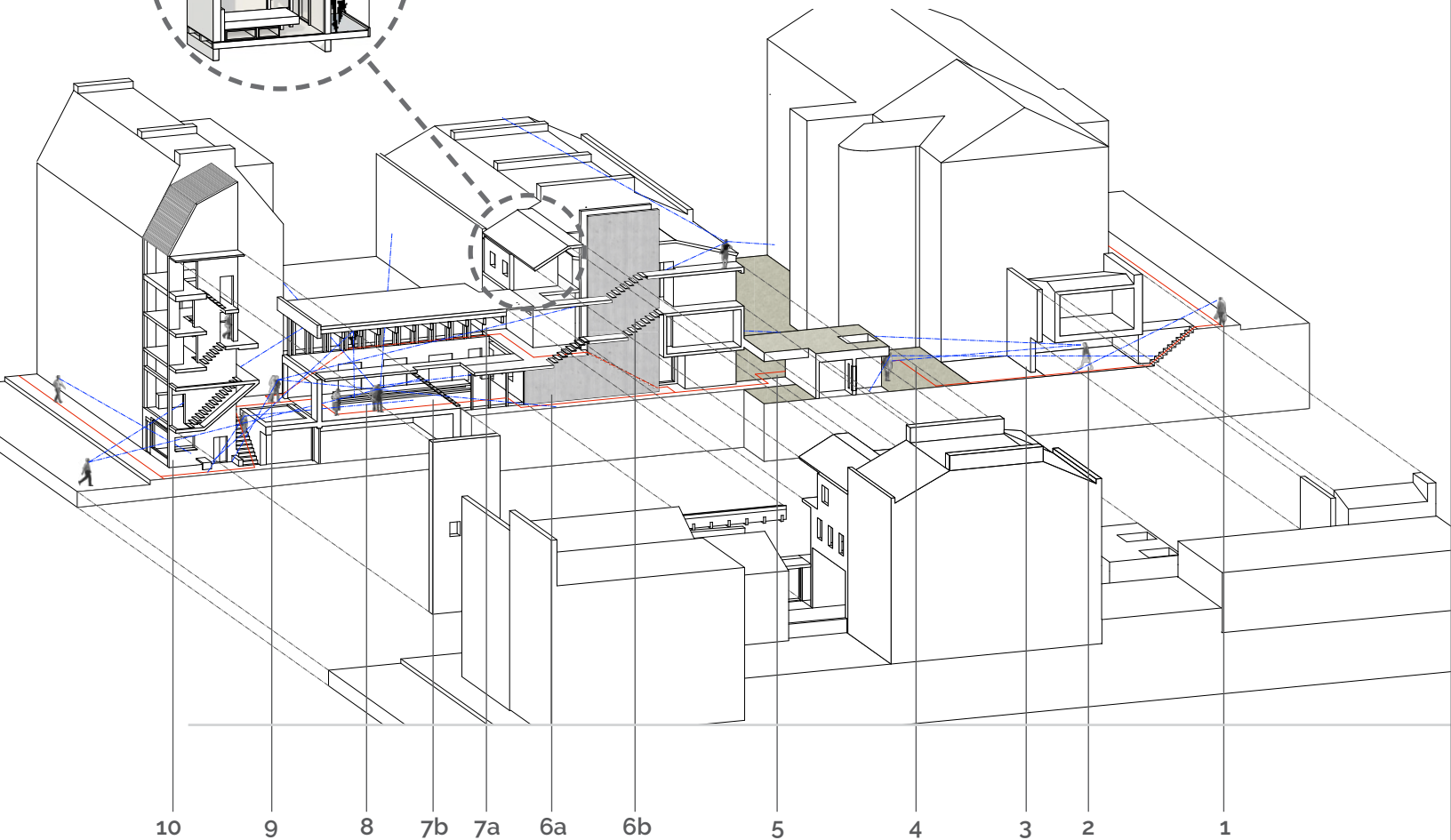
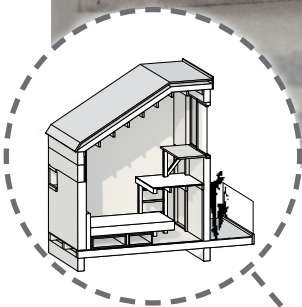
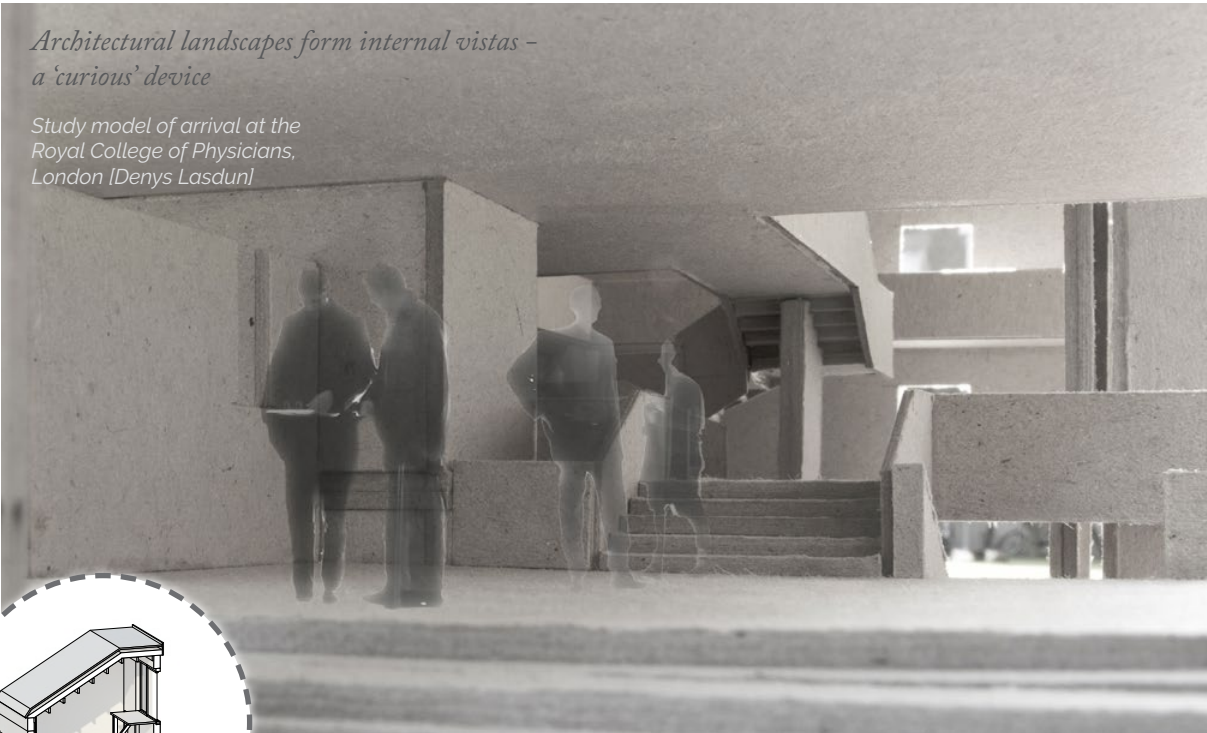
THE ARCHITECTURE OF CURIOSITY

THESIS PROJECT

GLASGOW, SCOTLAND
Fall 2012 - Spring 2013

*Architectural landscapes form internal vistas –
a ‘curious’ device*

*Study model of arrival at the
Royal College of Physicians,
London [Denys Lasdun]*



PROFESSORS
Peter Cody, Chris Boyle

ADAPTABLE INFILL

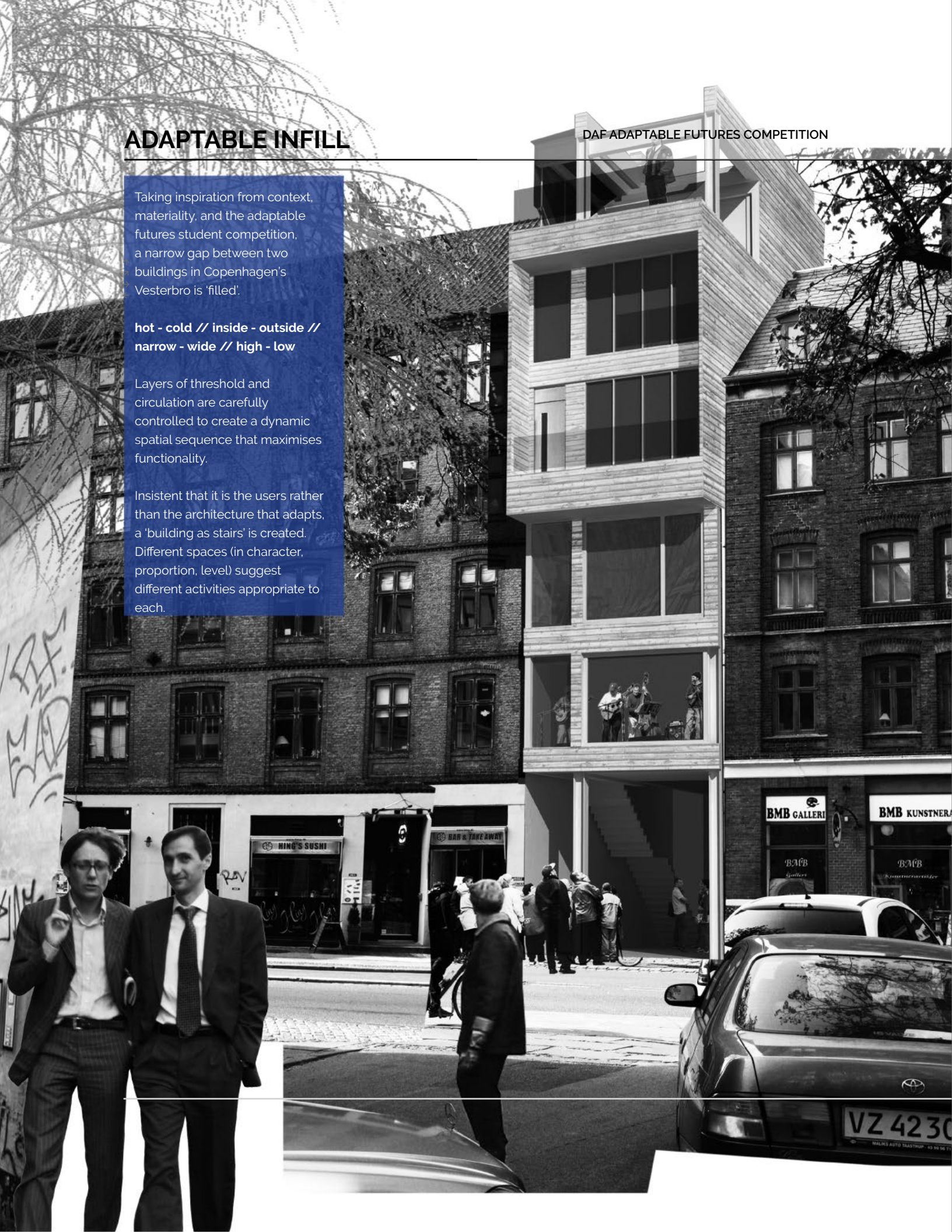
DAF ADAPTABLE FUTURES COMPETITION

Taking inspiration from context, materiality, and the adaptable futures student competition, a narrow gap between two buildings in Copenhagen's Vesterbro is 'filled'.

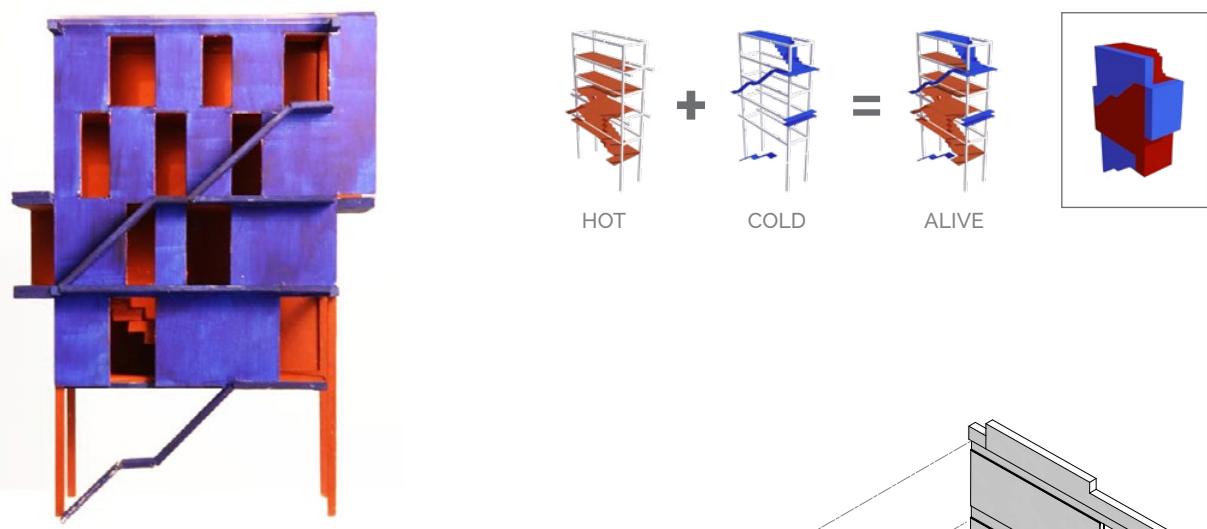
hot - cold // inside - outside // narrow - wide // high - low

Layers of threshold and circulation are carefully controlled to create a dynamic spatial sequence that maximises functionality.

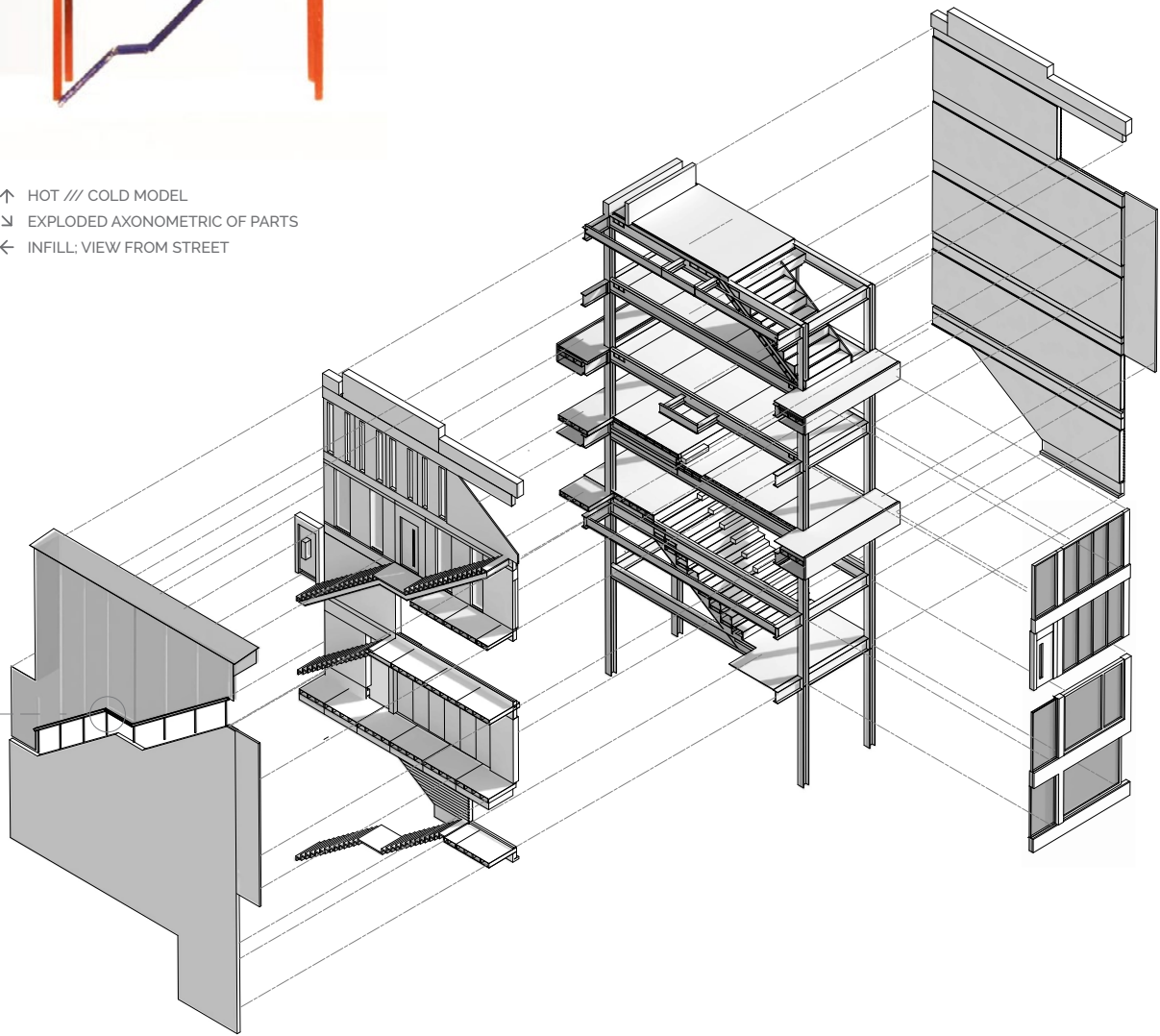
Insistent that it is the users rather than the architecture that adapts, a 'building as stairs' is created. Different spaces (in character, proportion, level) suggest different activities appropriate to each.



COPENHAGEN, DENMARK
Spring 2012



↑ HOT /// COLD MODEL
↘ EXPLODED AXONOMETRIC OF PARTS
← INFILL: VIEW FROM STREET



PROFESSORS
Katrine Lotz, Anne Mette

ACRYLIC TENDENCIES

RESEARCH PROJECT
Materials Studio

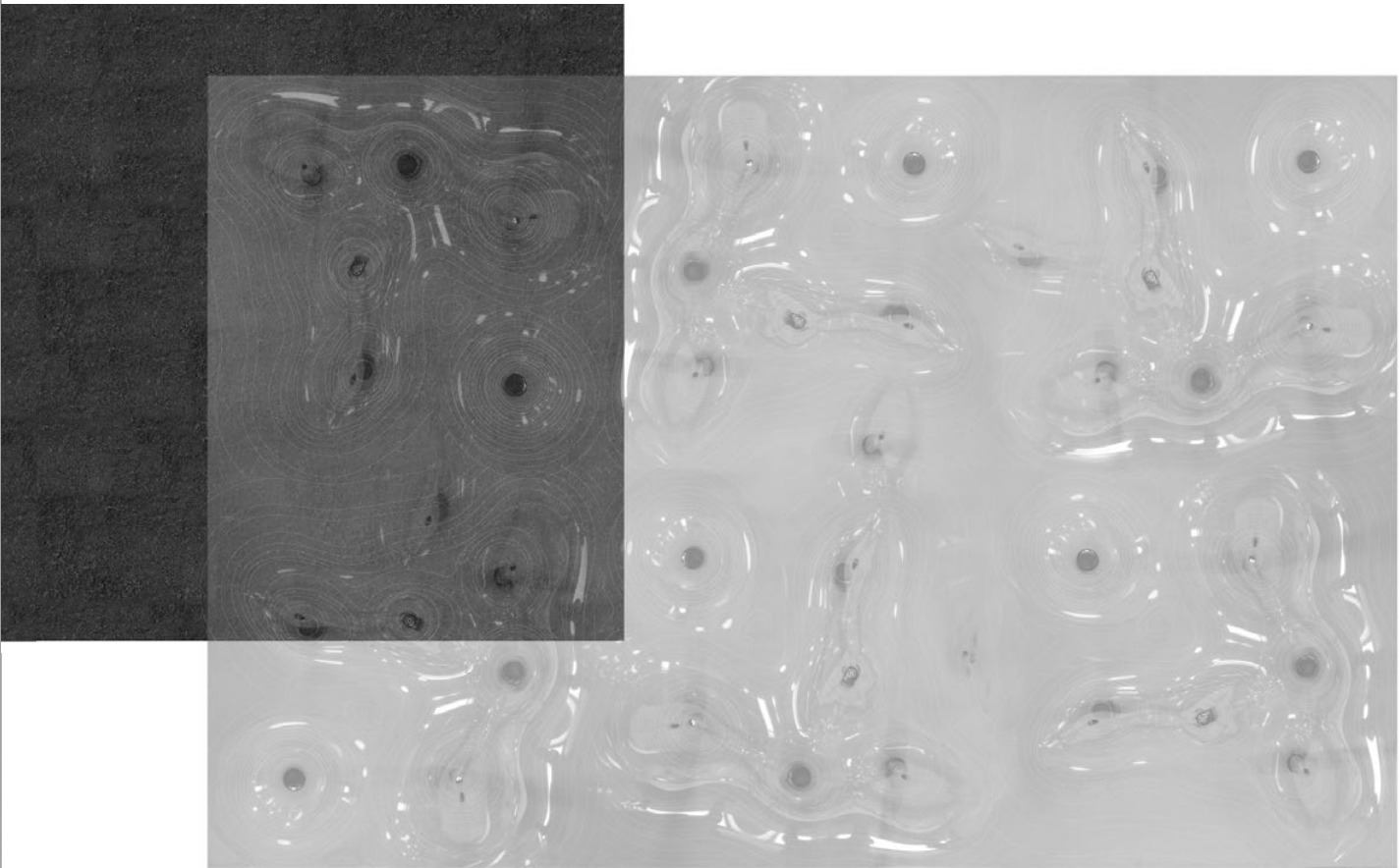
COPENHAGEN, DENMARK
Spring 2012



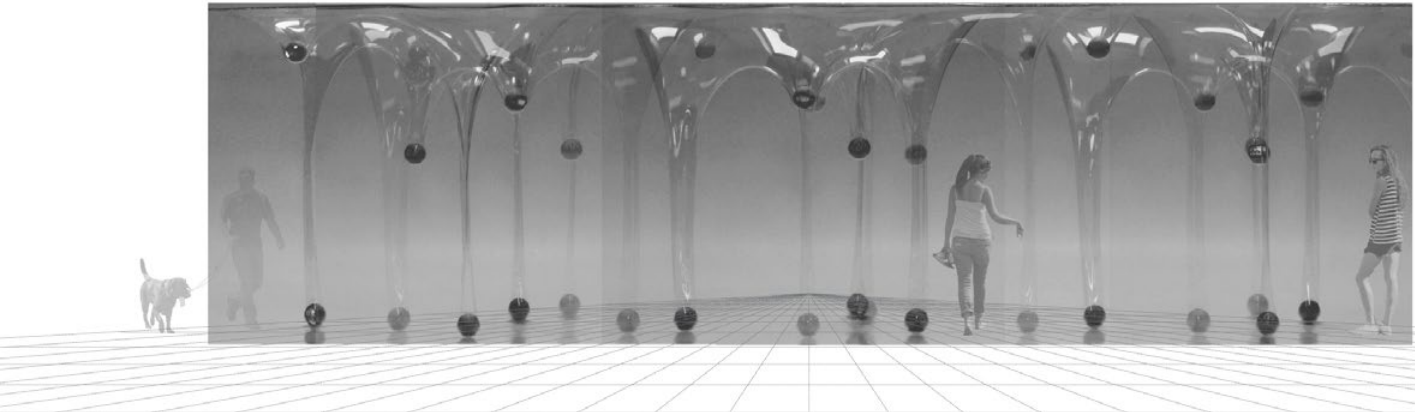
This project was part of the Unit 3 Materials research studio at the Royal Danish Academy of Fine Arts, which studied the inherent properties of acrylic plastic.

Plastic acrylic does not perform predictably at high temperatures. It's becomes unstable and warps erratically before hardening into it's distorted shape.

Our aim was bring an element of restraint to the randomized forms that are created, using a device that manually controlled acrylic deformations over steam.



↑ PLASTIC PAVILION, PLAN
↓ PLASTIC PAVILION, ELEVATION



PROFESSORS
Katrine Lotz, Anne Mette

+44 (0)73 76217110
lloydhelen123@gmail.com
lloydhelen.com

2018