



The University of Manchester

URBAN DESIGN

Yearbook 2017

2017 <http://www.seed.manchester.ac.uk/planning/>

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Edited and designed by:

Dr Taki Eddin Sonbli
Dr Philip Black

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University of Manchester

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INTRODUCTION

Urban Design Student Showcase 2017: Urban Design Studio

URBAN DESIGN YEARBOOK

2017

This Yearbook has been designed to showcase the urban design project work from the MSc Urban Design & International Planning programme at University of Manchester 2016/17. All graphics are student's own work.

The Yearbook is divided into project types based on the core urban design modules that students undertake, covering proposals on neighbourhood analysis; small city centre design interventions; large/medium scale masterplans; and research focused design dissertation projects. The graphics and images from each student are only a

small selection of the submitted proposals and are intended to be for illustrative purposes only.

The projects have been chosen by the urban design teaching team here at Manchester to represent the most accomplished projects and unfortunately due to space constraints not all student work is able to be included.

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A MESSAGE

As this Yearbook would not have been possible without the hard work of all the students involved, the urban design teaching team would like to take this opportunity to thank each student, regardless of inclusion in this document, for their energy, enthusiasm, and willingness to engage and learn. Well done to all on a successful year and we wish each and every one of you success in your future careers!

The Urban Design Team.

URBAN DESIGN AT THE UNIVERSITY OF MANCHESTER

MSc URBAN DESIGN

MSc Urban Design and International Planning at University of Manchester is a 1 year fully RTPI accredited programme that focuses on a specialist understanding of the relationship between urban design and planning and provides students with the core competencies and knowledge to specialise in the discipline of urban design.

The programme centres around an applied studio-based approach to teaching and learning, equipping students with the fundamentals of design, skills in design development and delivery across multiple scales,

and technical knowledge within the core software's utilised in professional practice.

THE DESIGN STUDIO

The university has a dedicated studio space for urban design students within the Humanities Bridgeford Street building that provides a consistent space to work on projects and collaborate with peers. Students are encouraged to work regularly in the studio to engage in critique with fellow students. The studio space includes a full range of equipment to assist in design and delivery including light boxes, drawing boards, technical equipment, panel boards to present work, personal storage

facilities, and state-of the art teaching screens and software.

Design teaching takes place predominately in the studio and students work on their projects weekly under the supervision of the teaching team. Sessions involve short interactive lectures, technical workshops, and applied project based examples in which students work in groups to actively learn and develop core skills. Projects are also developed in studio time and progress is critiqued through a series of design crits at key stages to allow students to receive feedback on analysis and ideas.

Professional practitioners are also invited to run special studio workshops – this year has seen designers from Turley, OPEN, WYG, OMI Architects, and URBED deliver specialised sessions.

COMPUTER CLUSTERS

Adjacent the urban design studio two computer suites operate the latest design software's free of use for students. Software packages available include Adobe Creative Suite (Ps, Ai, Id); Sketch-up, ArcGIS, and AutoCAD.

PRINTING

Urban design students have full use of a dedicated A0+ plotter and trimmer for printing and

displaying project work. Design projects are presented at A1.

MODELLING WORKSHOP

Also in Humanities Bridgeford Street building students get the opportunity to utilise the universities model workshop (B.15). Examples of student modelling work can be found within the Yearbook.

INFORMATION

If you are interested in a career in urban design and wish to find out more about the programme please visit:

www.manchester.ac.uk/planning

Or contact Programme Director

Dr Philip Black

philip.black@manchester.ac.uk

TEACHING TEAM

The urban design teaching team consists of academic staff, design tutors, and studio assistants.

Programme Director & Lecturer in Urban Design

Dr Philip Black

Lecturers

Mr Robert Phillips (Practitioner)
Dr Nuno Pinto

Urban Design Technical Officer

Dr Taki Eddin Sonbli

Studio Tutor

Mr Michael Martin

Studio Assistants

Ms Amanda Briggs
Ms May Newisar

THE UNIVERSITY OF MANCHESTER URBAN DESIGN TOOLKIT



URBAN DESIGN TOOLKIT

The urban design toolkit is a bespoke series of hand-outs and videos designed to provide University of Manchester students with a free to use accessible resource to assist their urban design software skills and develop their techniques in a wide range of core urban design techniques, approaches, and methods. The Toolkit offers students outside the classroom learning opportunities in how to develop urban design analysis, ideas, and proposals.

The toolkit includes simple to use step-by-step guides through the core design software packages, including Illustrator, Photoshop,

InDesign, Sketch-Up, and AutoCAD. It also has extensive hand sketching/drawing and technical drawing guidance. This is a unique and invaluable resource for students and is continually being updated and added too.

STUDENT WORKSHOPS

To compliment the toolkit urban design students are also provided with a series of technical workshops to develop their competencies in the core design software. These workshops are aimed at beginners and are designed to present how software is utilised in an urban design professional practice setting.

TOOLKIT AUTHORS

Dr Taki Eddin Sonbl
Mr Michael Martin

TOOLKIT EDITOR

Dr Philip Black

CONTRIBUTORS

Mr Robert Phillips
Dr Nuno Pinto



The Urban Design Studio: The University of Manchester

This studio based unit aims to introduce students to the process of masterplanning, providing skills in analysis at larger scales; design option development and testing; working to a brief; and detailing a masterplan project design at 2D and illustrative 3D. The unit aims to provide advanced practice in urban design; consolidate the work on the interface of urban design and masterplanning scales; develop advanced graphical and presentation skills to deliver urban design projects; and develop a critical approach to the urban design process and a strong link between the theory and the practice of urban design.

The project asks for the delivery of a spatial masterplan design proposal for a selected 15-20 hectare site. A series of crits assists students throughout the year in developing their analysis and design. The final submission includes a detailed strategic framework, design options, a technical scaled masterplan, 2D and 3D visualisations, and a considered implementation plan.

Each Yearbook entry is for illustrative purposes only as only selected graphics/images from the full design proposal submission could be showcased.

UNIT CONVENOR
Dr Philip Black

DESIGN TUTORS
Dr Taki Eddin Sonbli
Mr Robert Phillips
Mr Michael Martin

UNIT CONTRIBUTORS
Urban Imprint
URBED
WYG
Optimised Environments



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Turley Prize

WINNER 2017

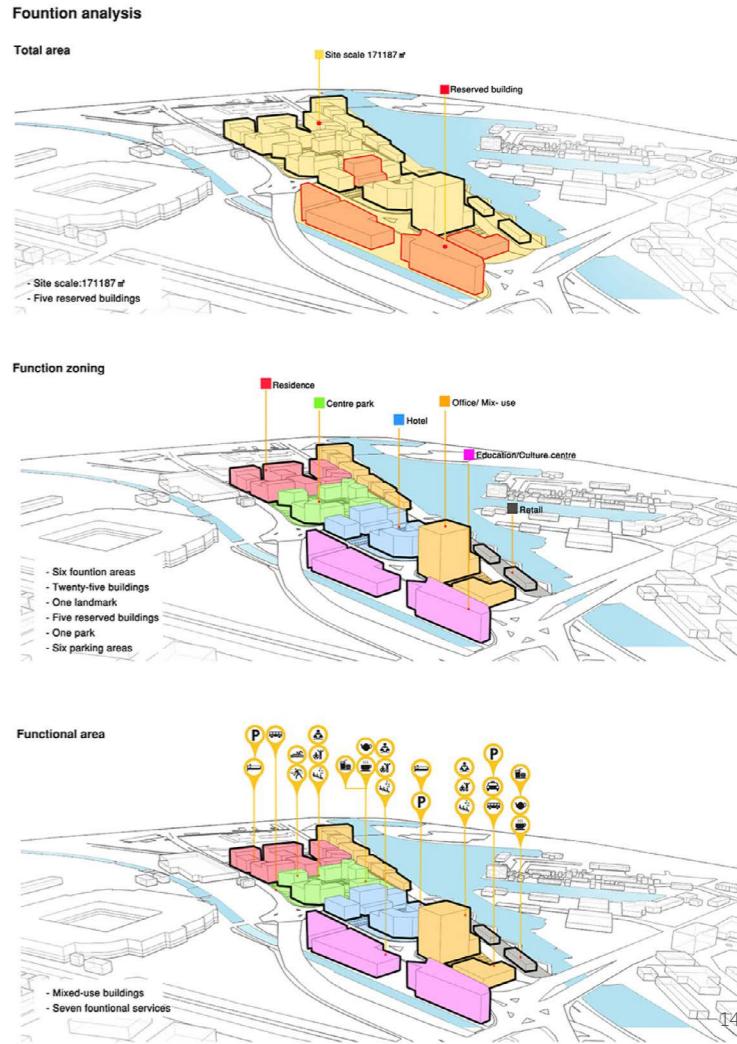
The **Turley Prize for Best Urban Design Project** is the latest initiative in a long and fruitful relationship with University of Manchester. Turley is the UK's leading employee-owned planning and design consultancy.

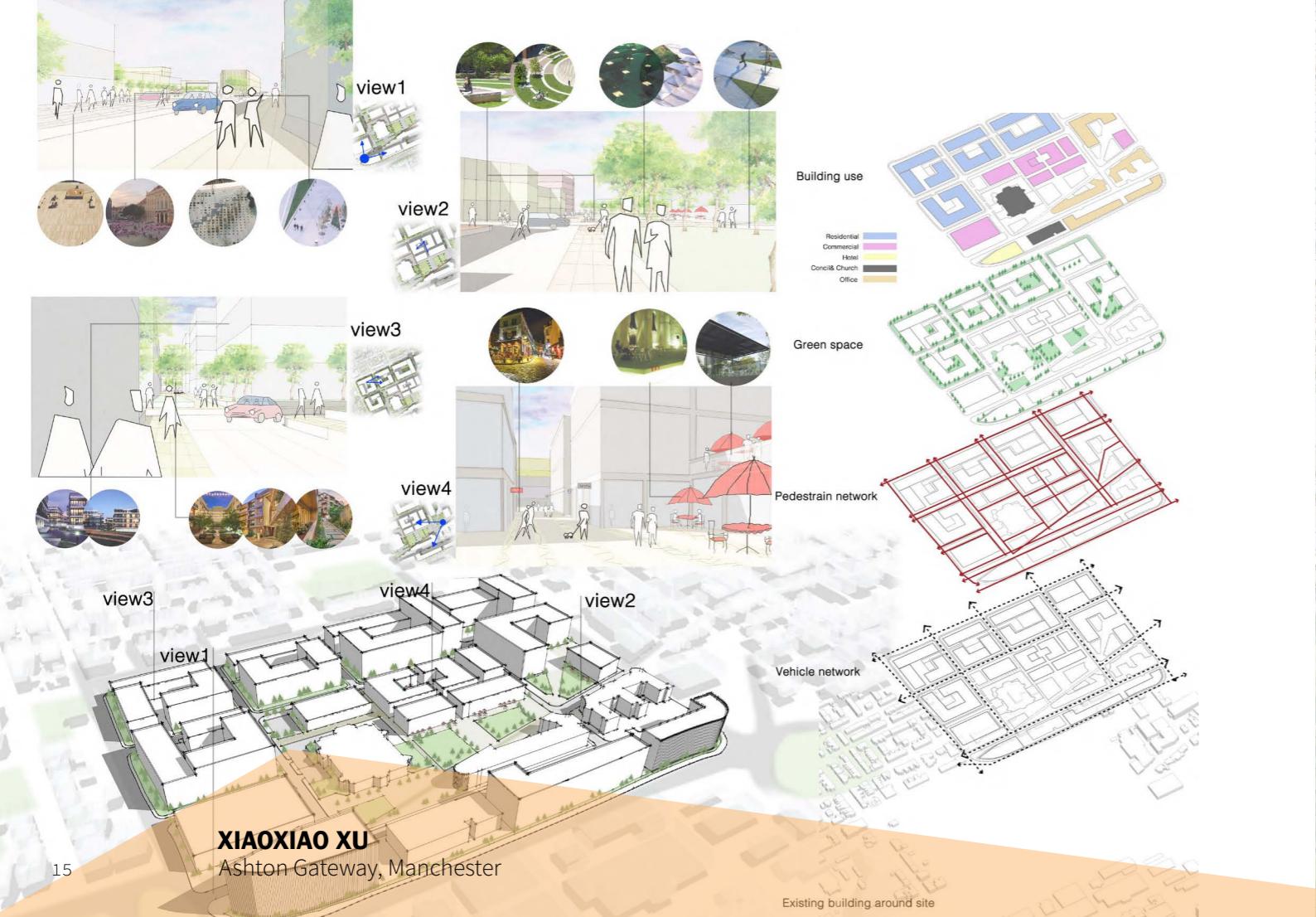
This years winner and the recipient of £150 for Best Urban Design Project is **RUJING WANG**

"We were impressed by Rujing's efforts to tackle the inherent complexities of this site. The consideration of how her proposals relate to the wider area and her initial thoughts on place are notable. The masterplan is resolved to a high standard, she should be very proud of her project"
Turley, Manchester



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LEI FENG

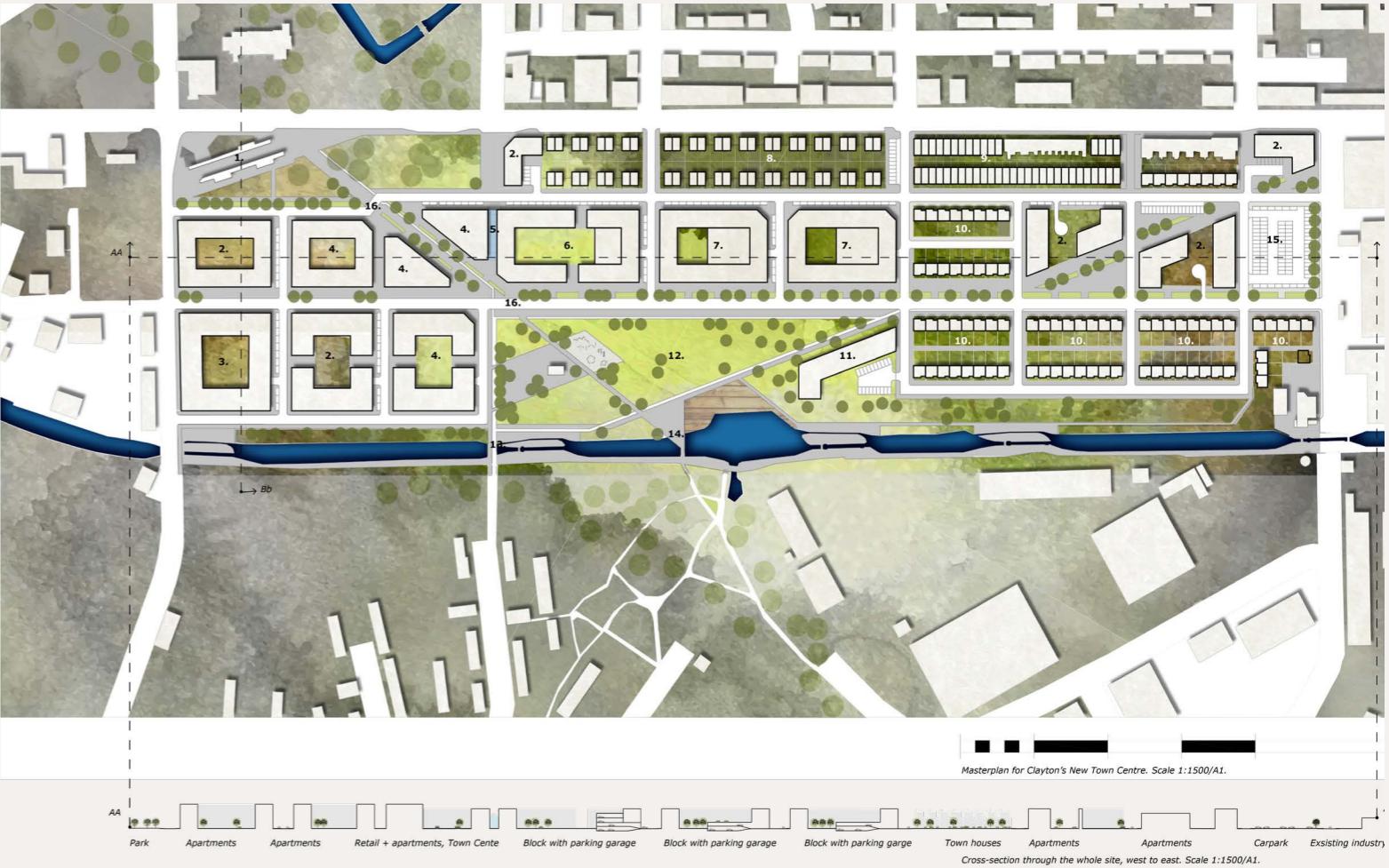
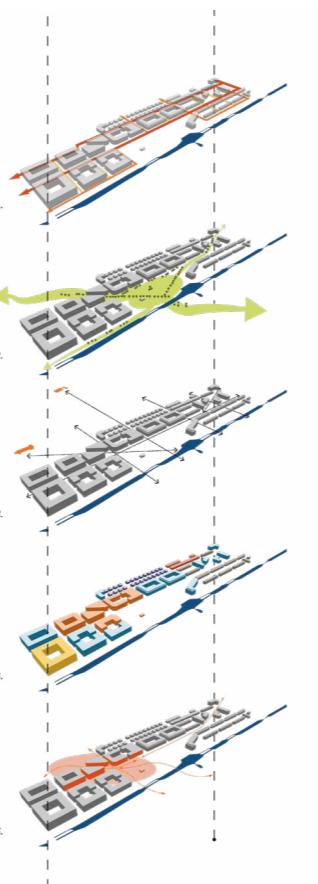
Belle Vue, Manchester



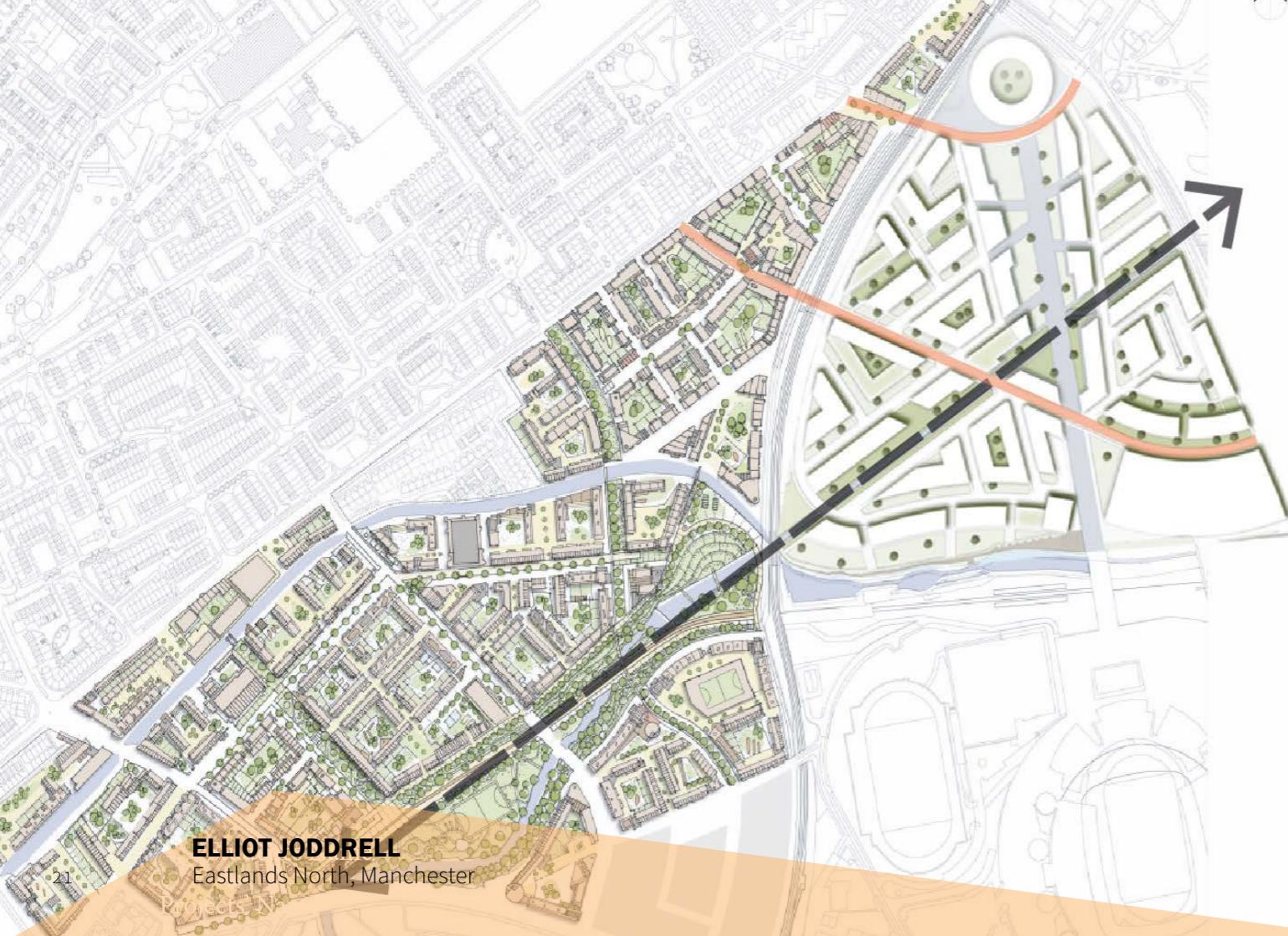


LINN ABRAHAMSSON
Clayton Town Centre, Manchester

19



20



ELLIOT JODDRELL

Eastlands North, Manchester



AKSHITA PANWAR

Trafford Wharf



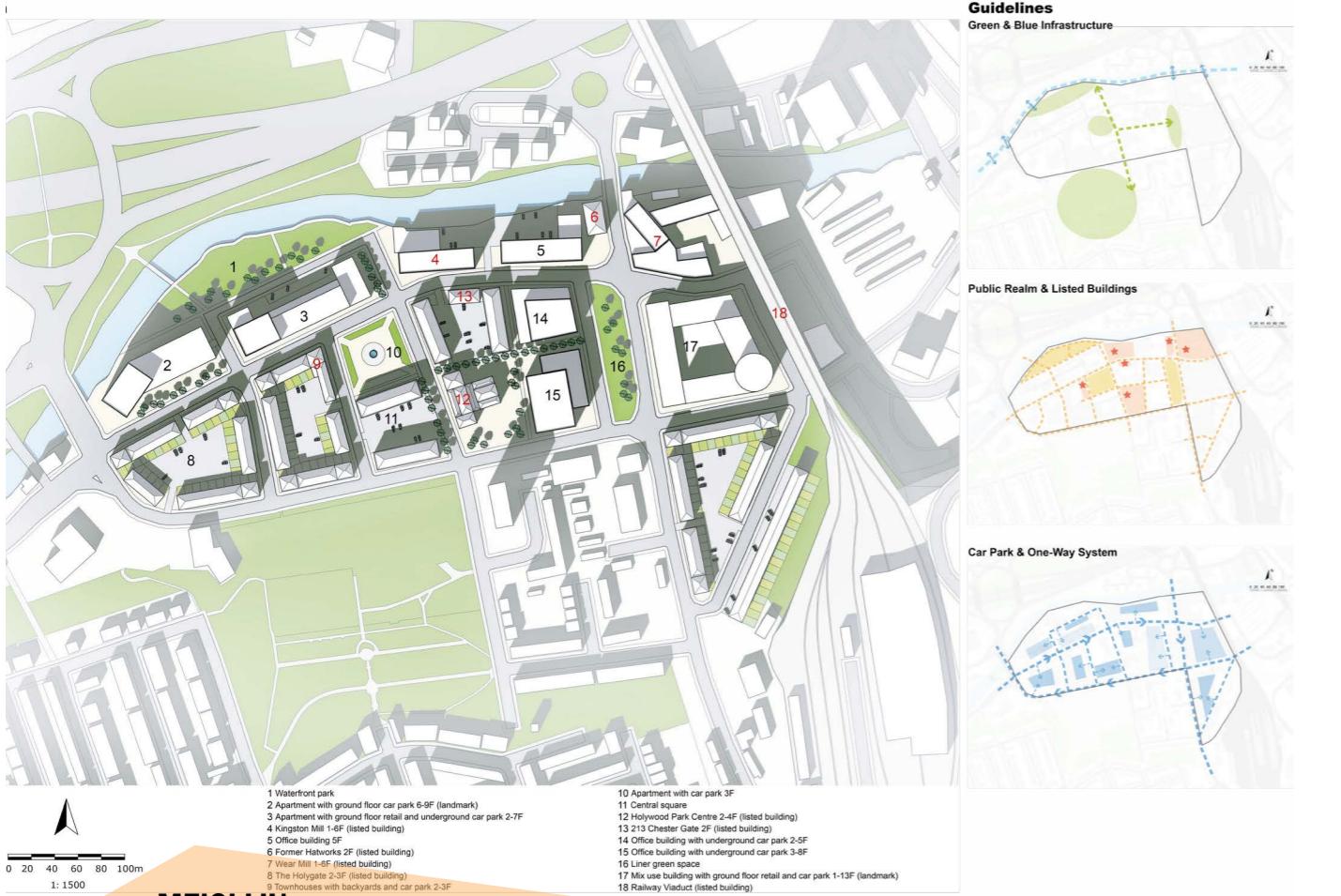
JACK LIVINGSTONE

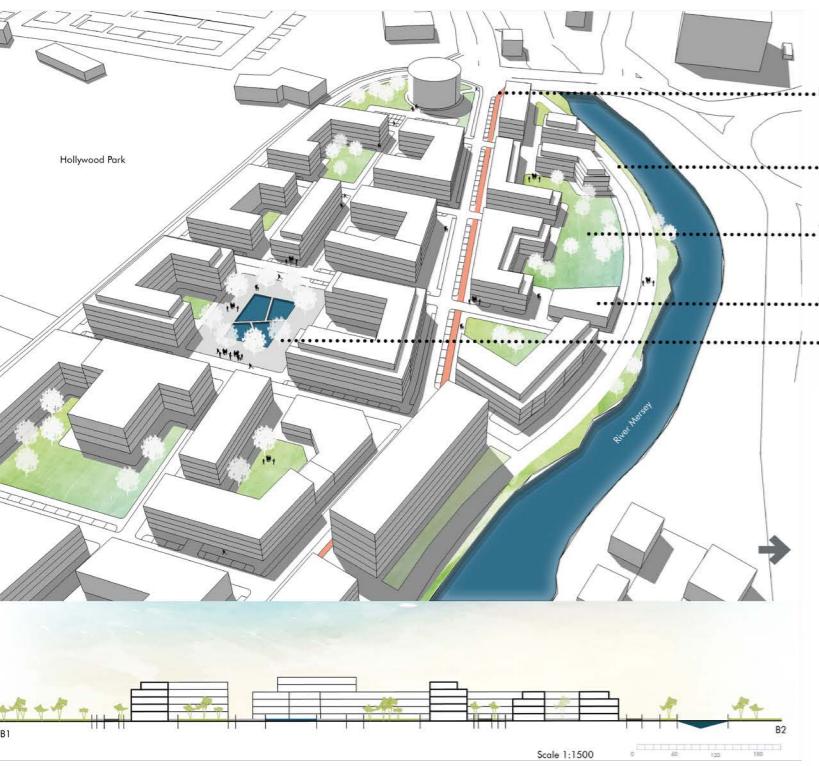
Handforth Garden Village, Manchester



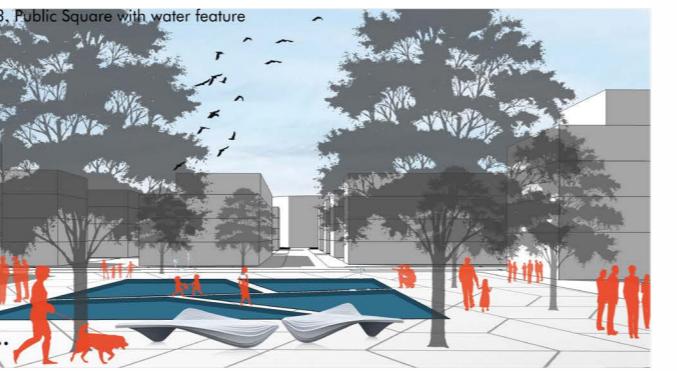
VIDUSHI AGARWAL

Trafford Wharf

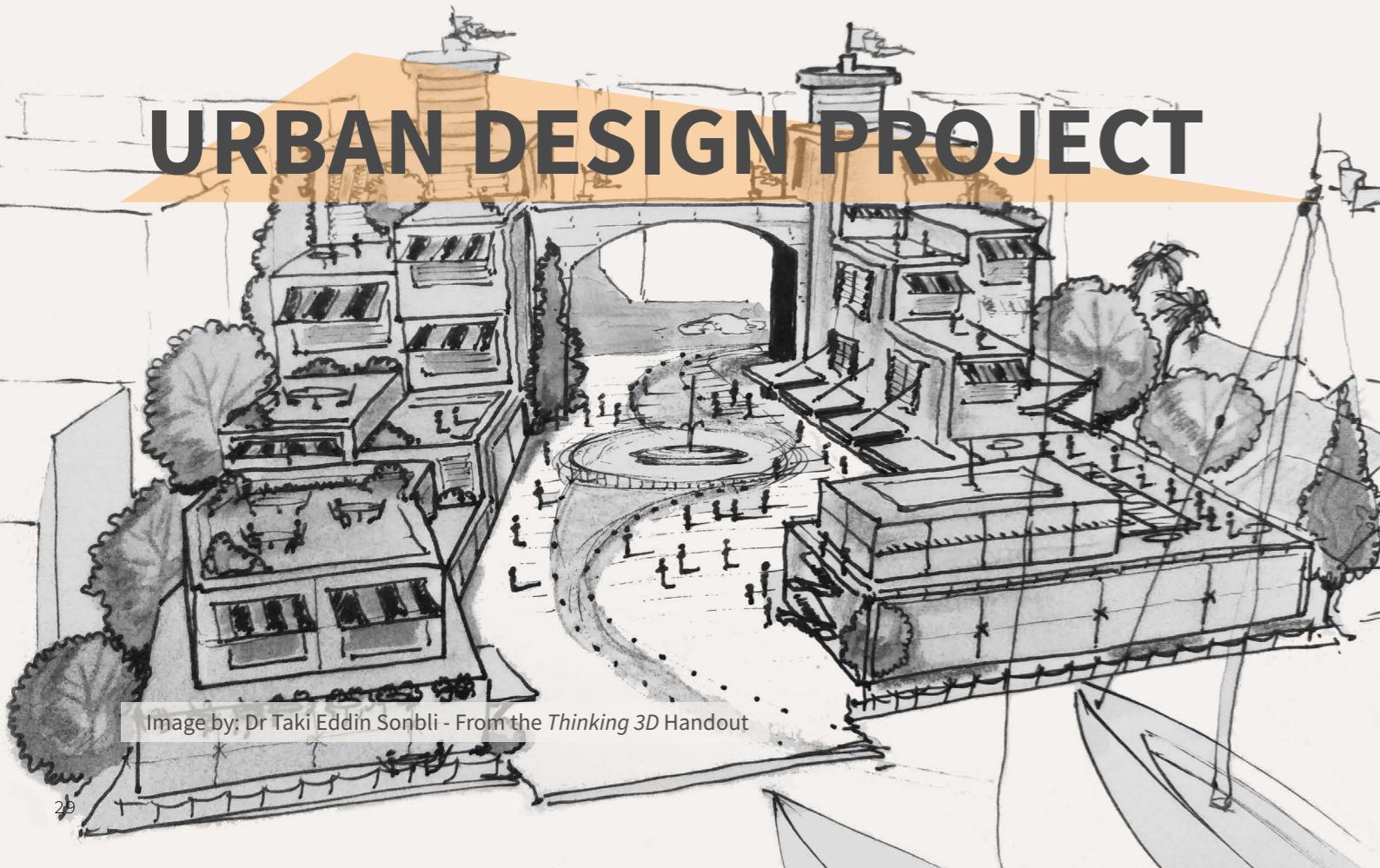




JULIA JOHANSSON
Stockport Western Gateway



KATARINA ZULVER
Ordsall, Salford



URBAN DESIGN PROJECT

This studio based module aims to reinforce, through applied practice, the main principles of urban design; skills of architectural observation and description; techniques for analysis of urban space; design policy and guidance; design and access statements; and urban design proposals and schemes. The project involved the delivery of a detailed urban design proposal on a corner site (approx. 1-2 ha.) and a 3D physical model.

The unit aims to allow students to develop a project-oriented approach to urban design; apply site analysis techniques to support urban design proposals; explore urban design principles

and their relationship with practice; design and communicate an urban design scaled intervention; and develop skills of design, presentation, and 3D physical modelling.

A series of crits throughout the year assist students in progressing their analysis, ideas and eventual designs, and the final project must include a technical scaled drawing of the design scheme at 1:1000 or 1:500 scale and a 3D physical model.

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UNIT CONVENOR
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Mr Michael Martin

STUDIO ASSISTANTS
Ms Amanda Briggs
Ms May Newisar

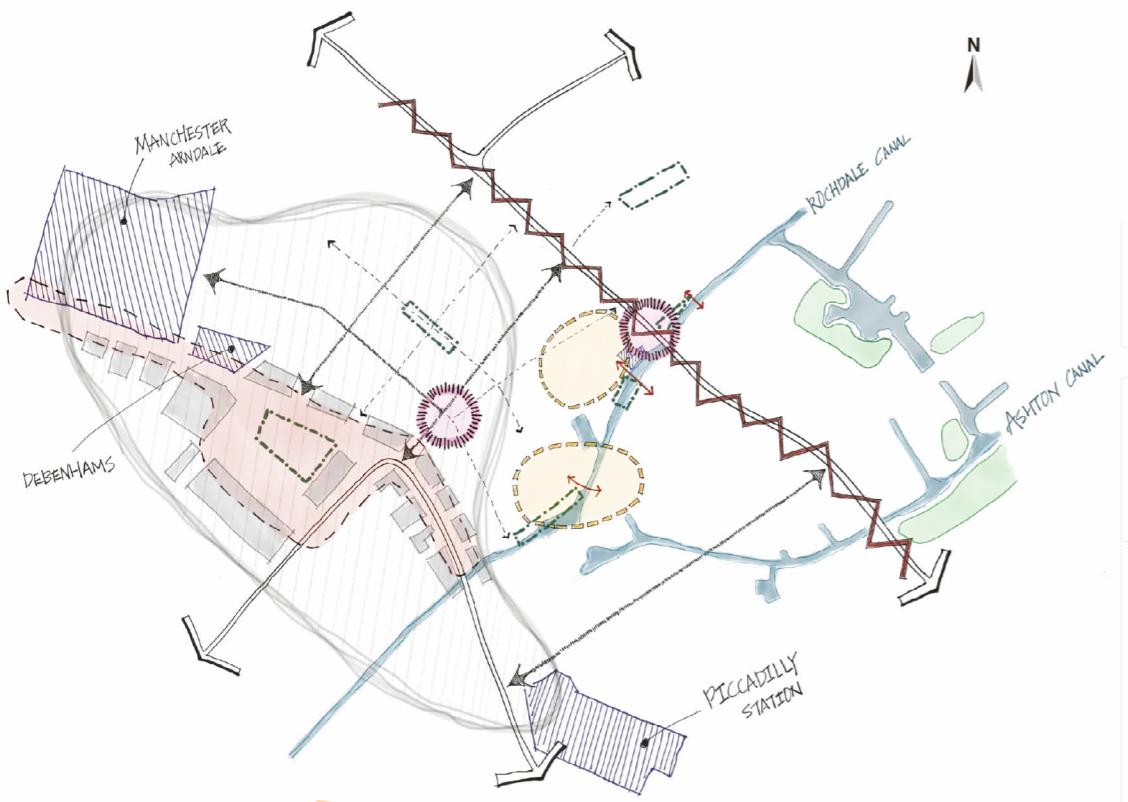
Turley Prize

Commendation 2017

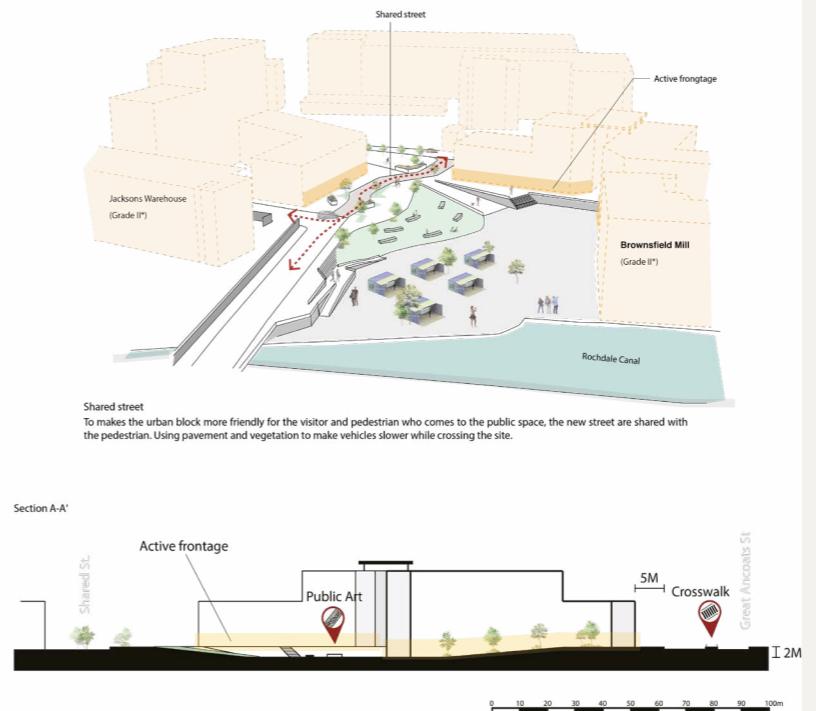
This year Turley have awarded two **special commendations** for projects shortlisted for the Turley Prize for Best Urban Design Project.

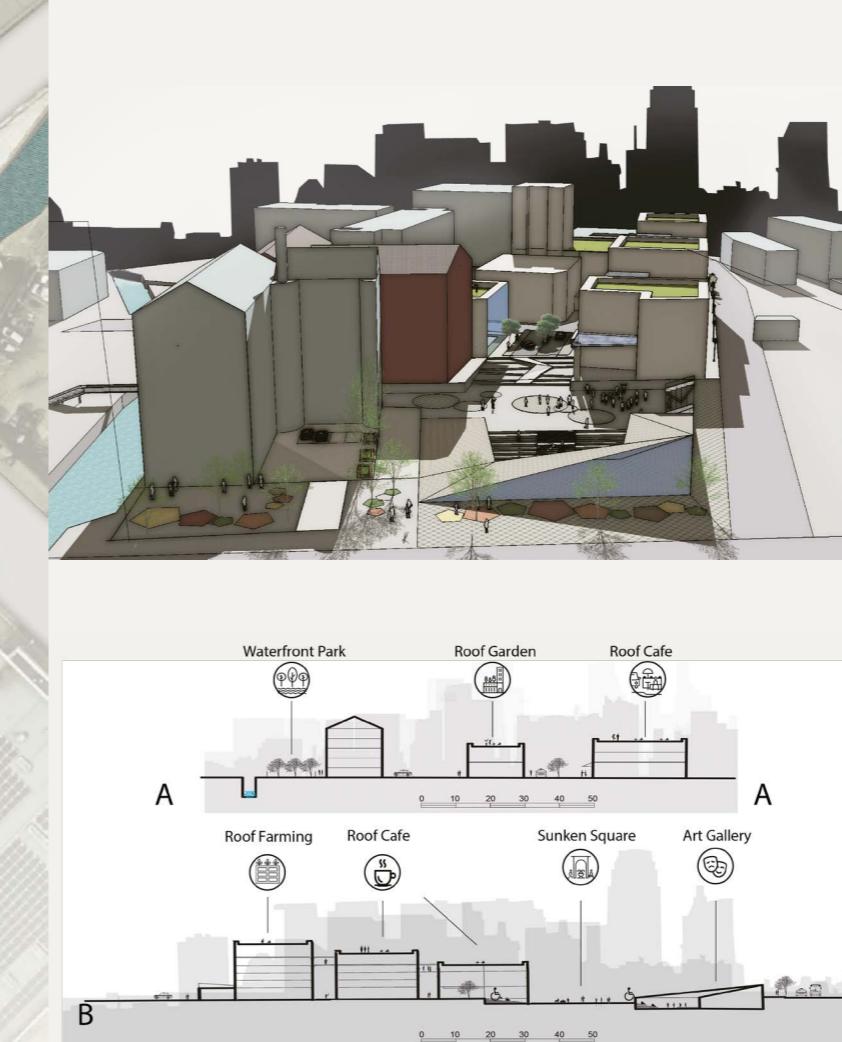
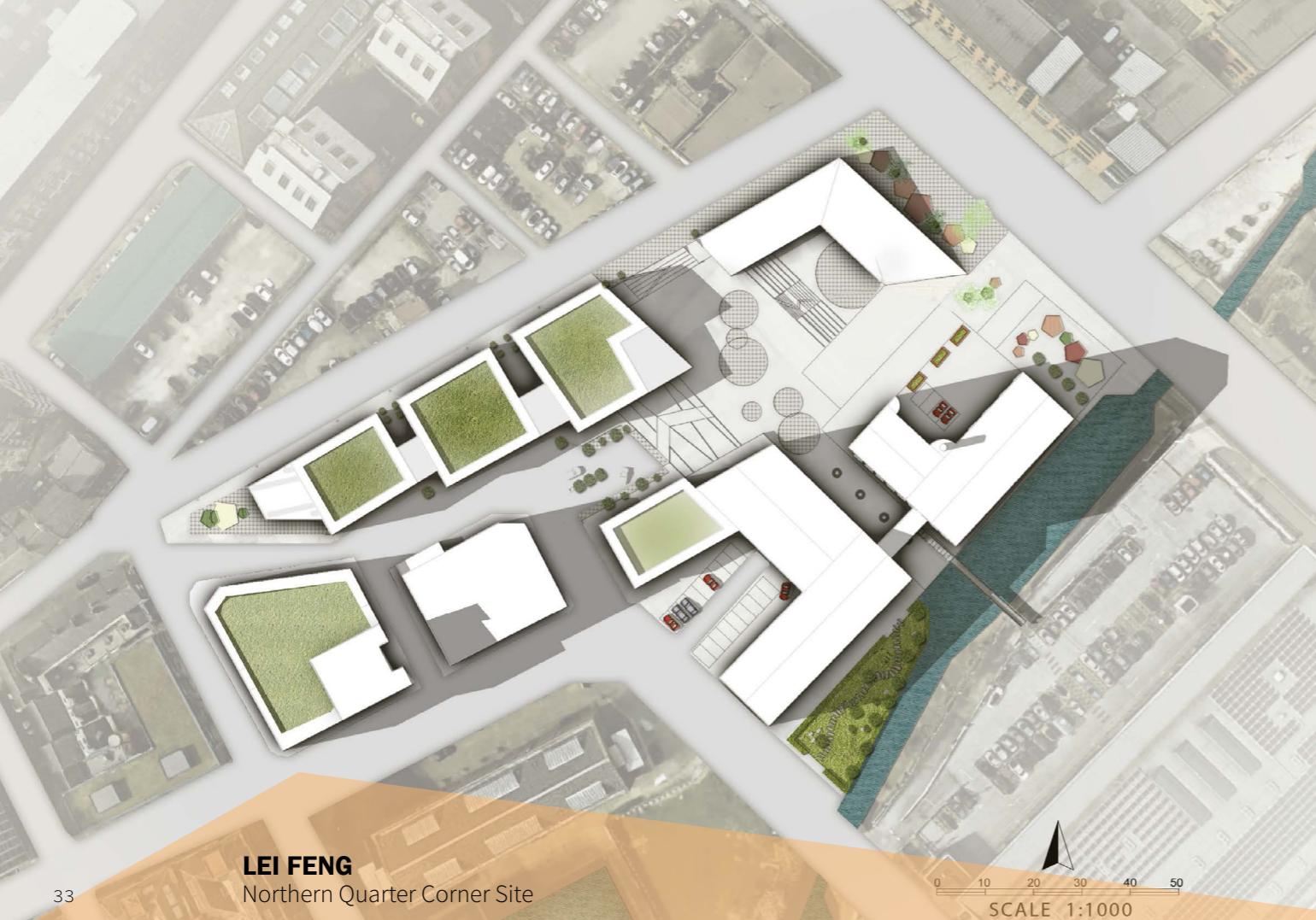
The first of these commendations is awarded to **NENG-WENG HUANG**

"We were struck by the thoughtful consideration of place in this project. Neng-Weng has understood some of the unique characteristics of this site and its immediate context, her proposals taking design cues from local 'landmarks' and referencing the sites historic geometry"
Turley, Manchester



NENG-WENG HUANG
Piccadilly Basin





Turley Prize

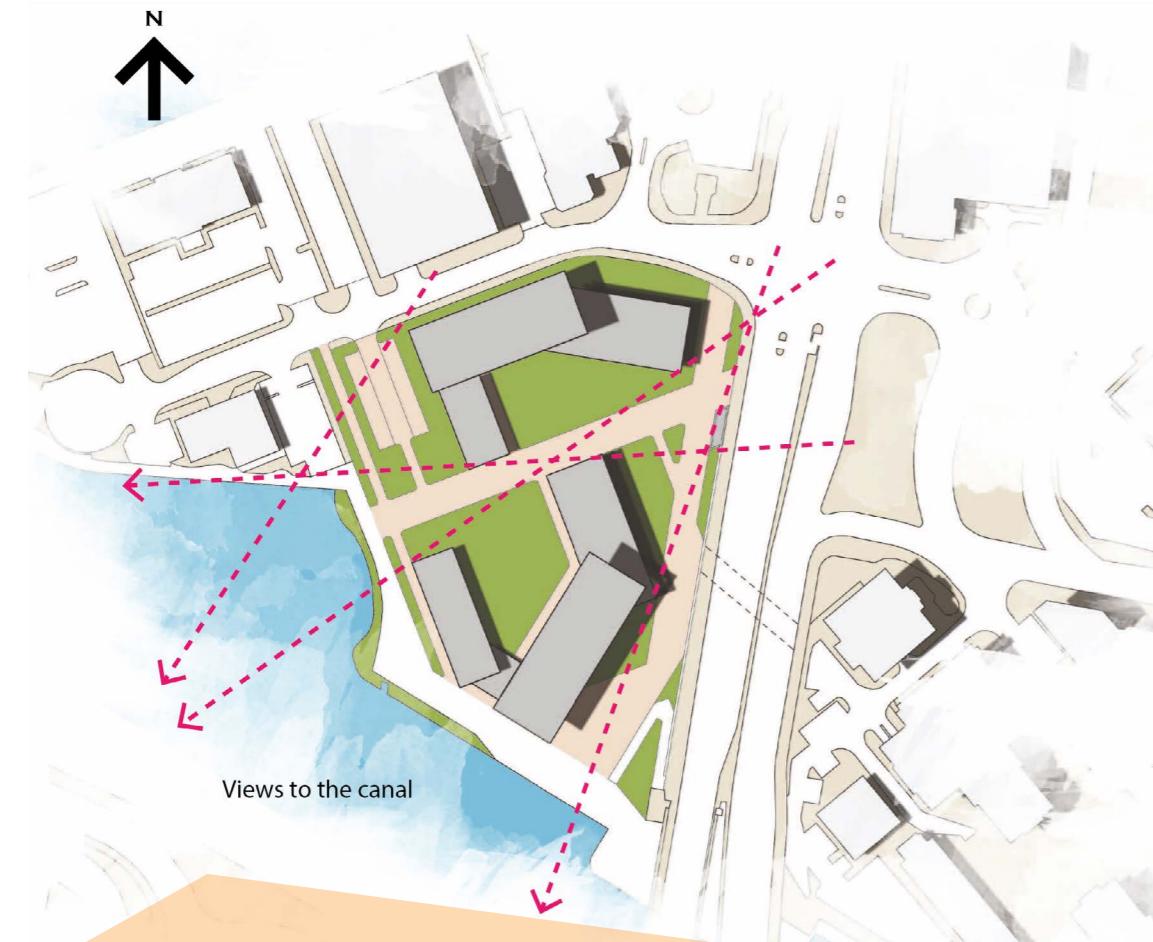
Commendation 2017

This year Turley have awarded two **special commendations** for projects shortlisted for the Turley Prize for Best Urban Design Project.

The second of these commendations is awarded to **LEI FENG**

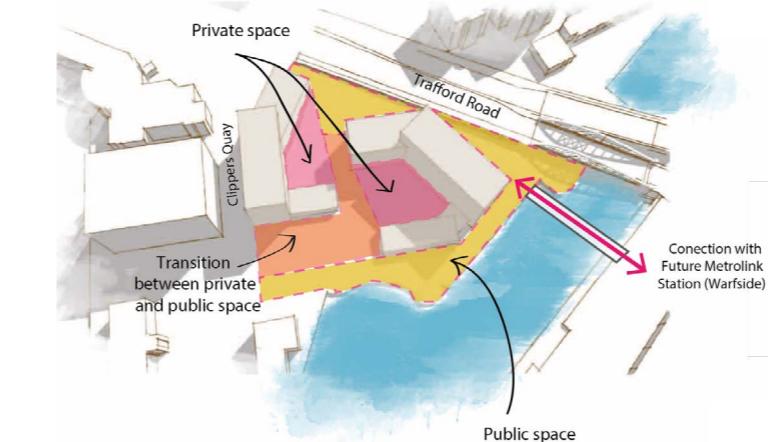
"We enjoyed Lei's willingness to explore bold ideas in her masterplan. Her proposal to re-structure movement patterns around a proposed Art Gallery and a public space attempt to tackle some of the fundamental issues within this site and its location on a key arterial route in the city"

Turley, Manchester

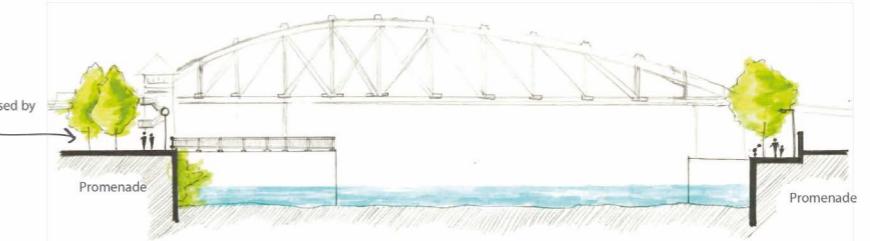


MARTHA GOMEZ MOREIRA
Clippers Quay, Salford

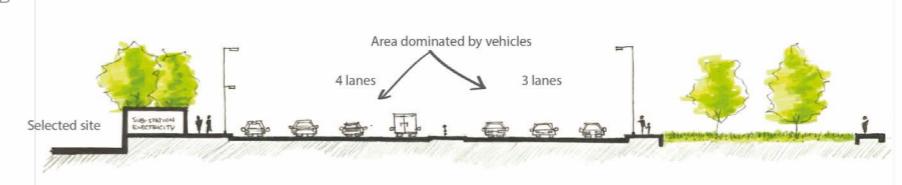
DIFFERENTIATE
PRIVATE AND PUBLIC SPACE



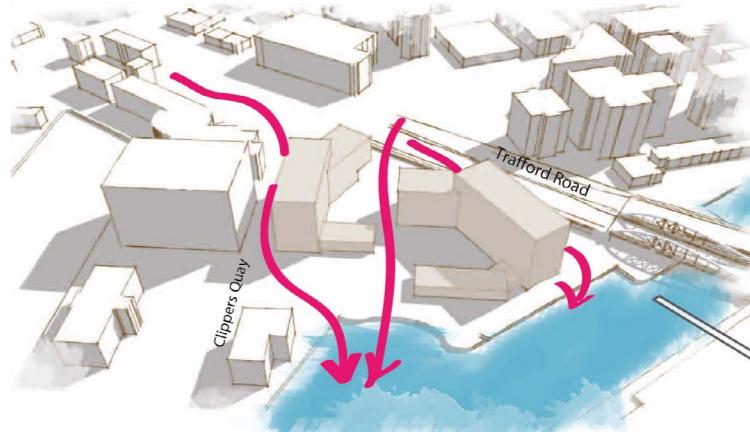
MANCHESTER SHIP CANAL
SECTION A - A'



TRAFFORD ROAD
SECTION B - B'



PERMEABILITY

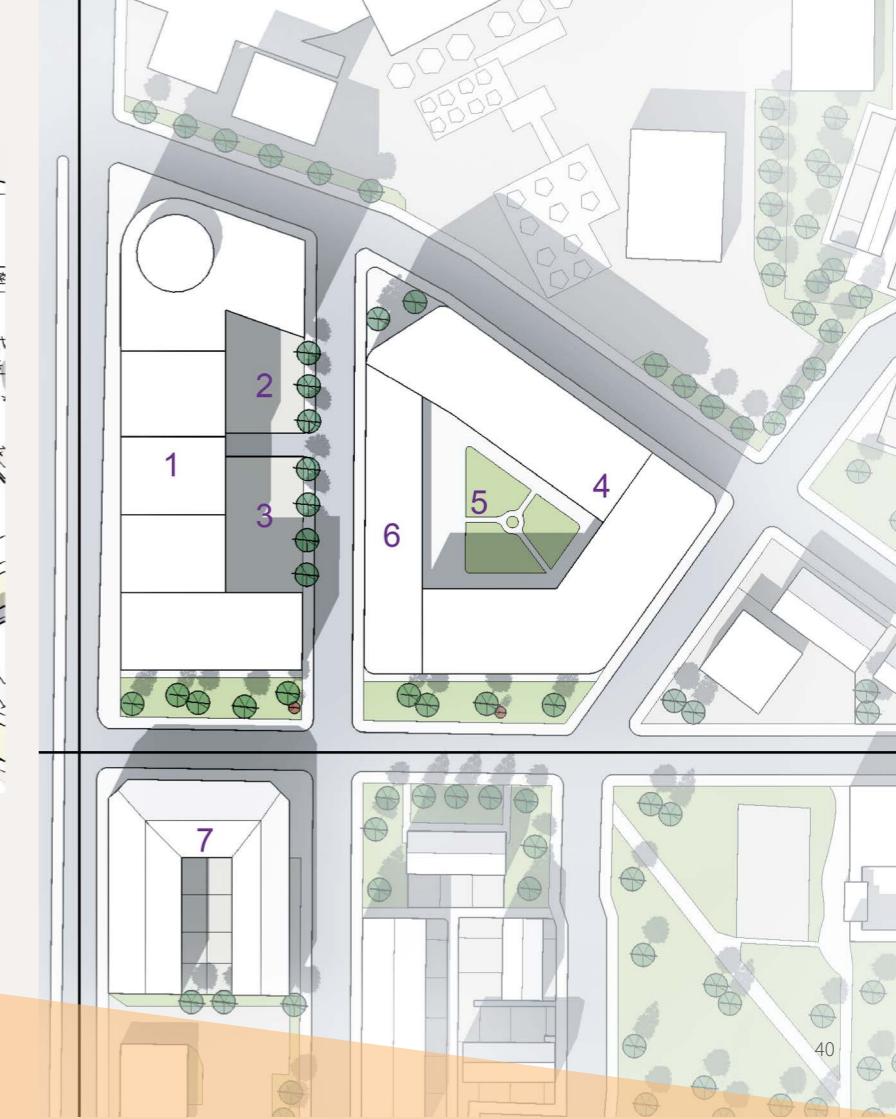
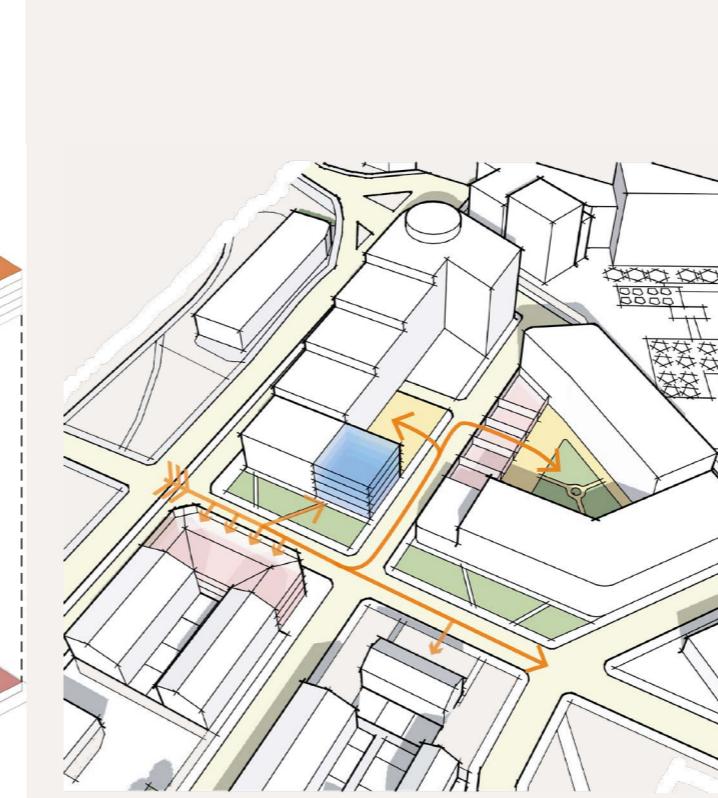
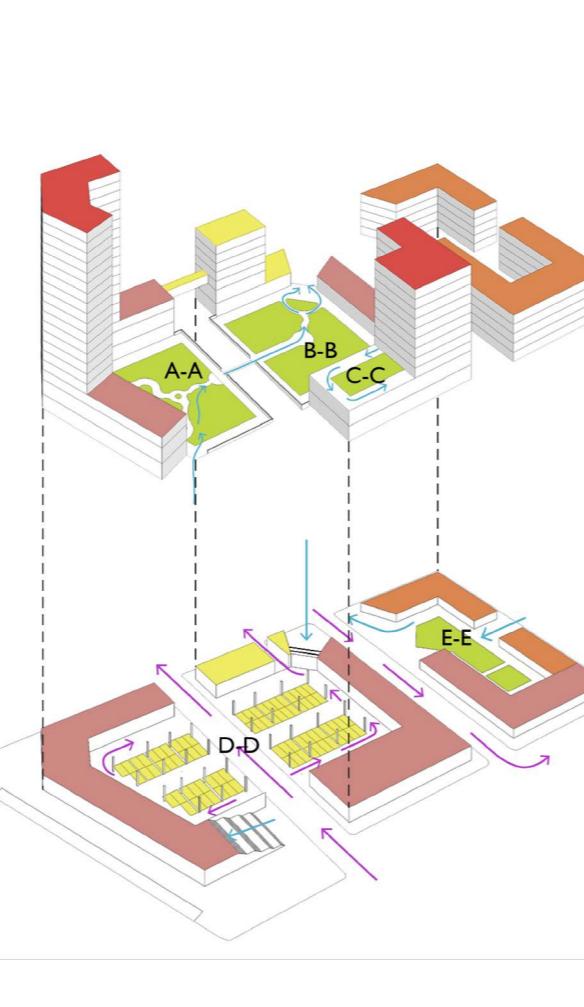
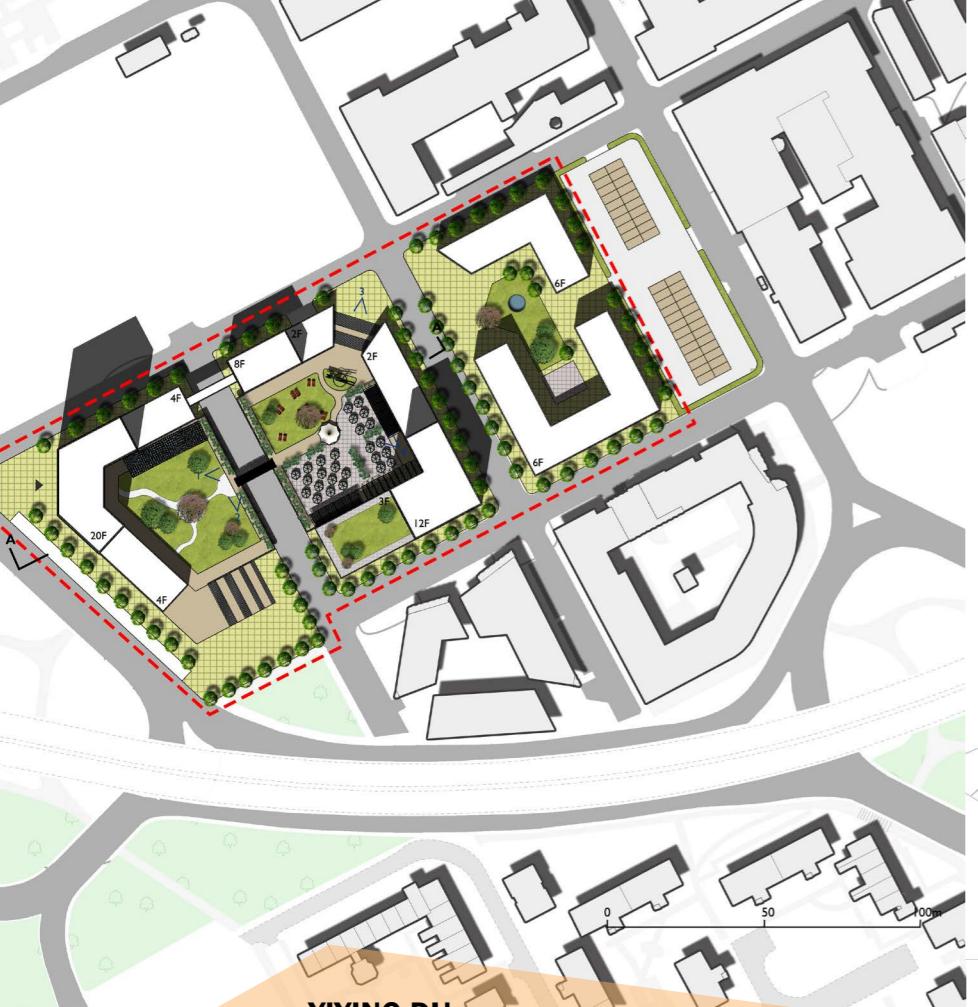




CHING-JUNG CHEN
Piccadilly Basin

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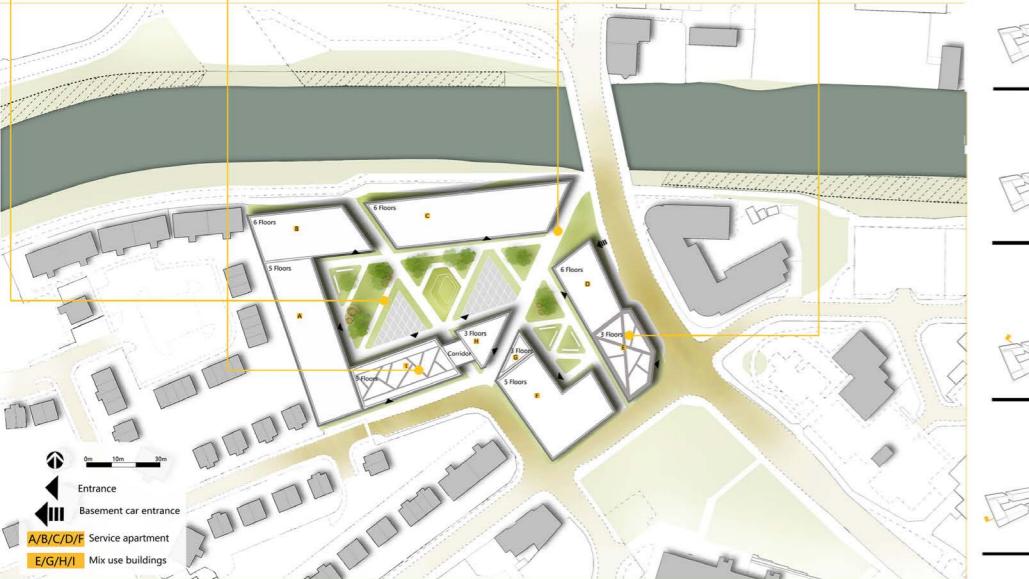
Masterplan

Open Space
As the semi-space, use landscape (trees and green space to distinguish between blocks)

Communal Space
Supply for students, residents and workers nearby
Enhance the connect with residential area
As the semi-space, use landscape(trees and greenspace to distinguish between block)

Entrance
Enhance the connection between the side of the river with residential area
As the semi-space, use landscape(trees and greenspace to distinguish between block)

Retail/Shop
Supply for people nearby
Use different wall types
Connect with bus station

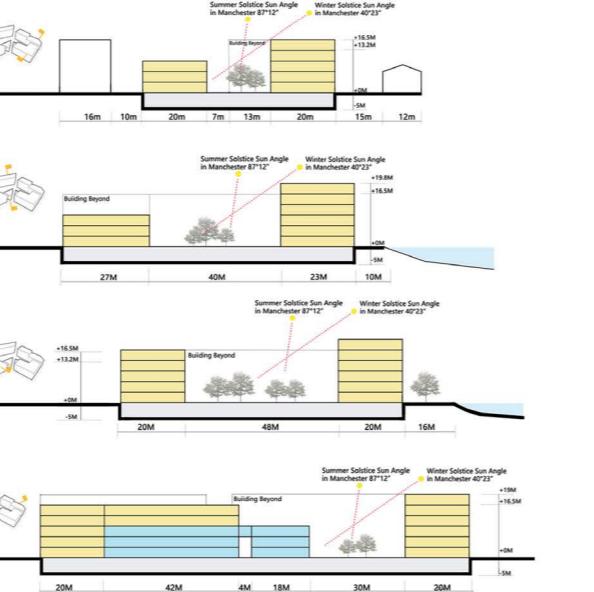


Cross sections

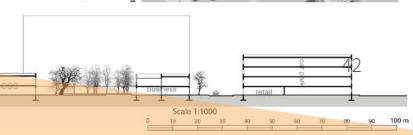
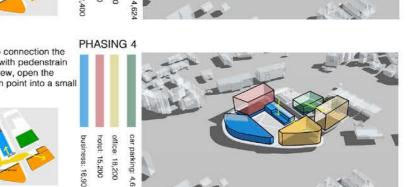
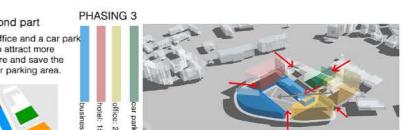
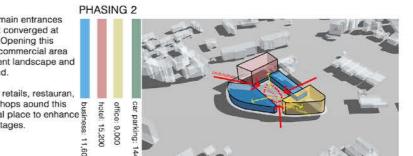
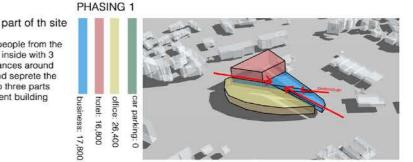
According to the solar trace to design each building's height in order to meet illumination in each part of community.

The building height also is decided by buildings' function, service apartments will only 3 floors to meet people's need.

Underground parking space will cover all the community.



Phasing: Planned to thrive



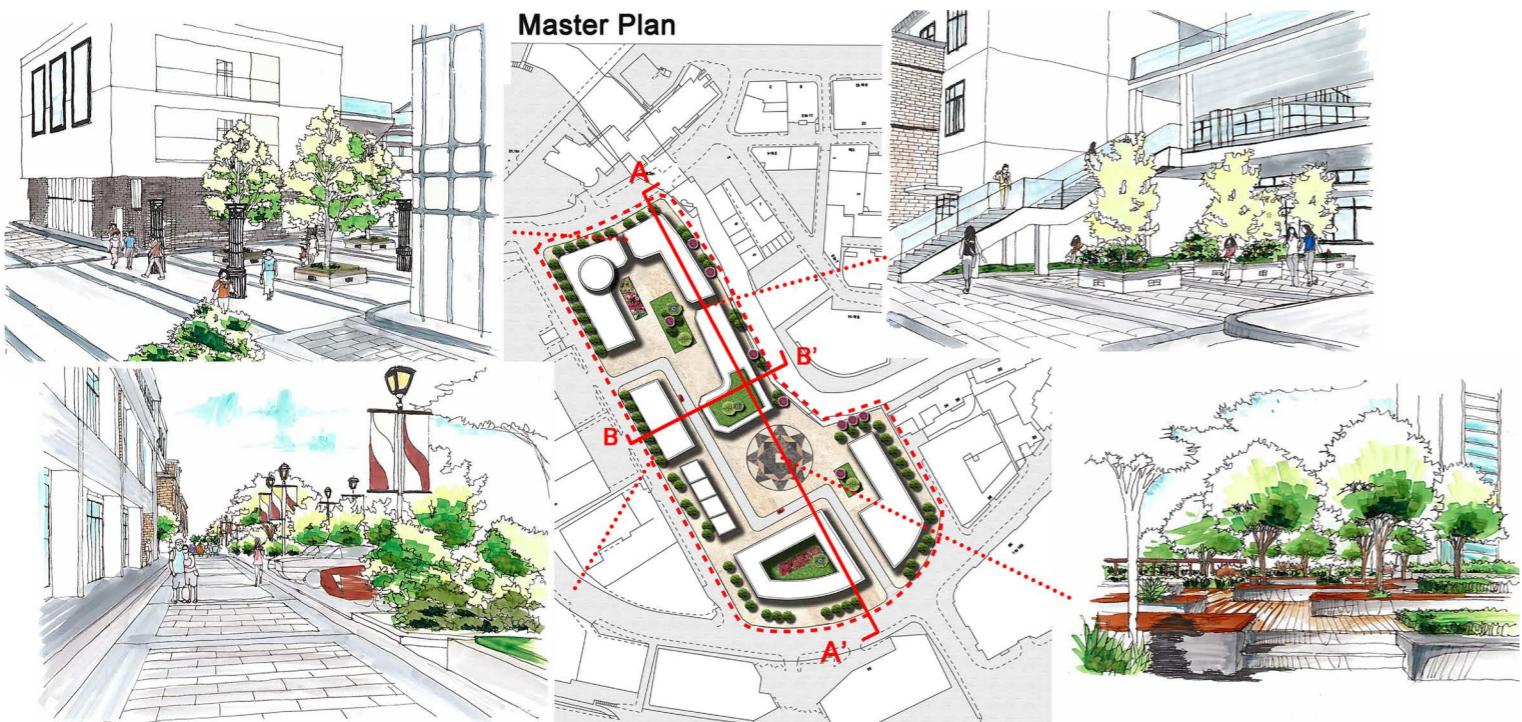
The small scale park in the office building have a good connection view and have a good community to attract people from the office building to the commercial park.

XINTONG CHEN

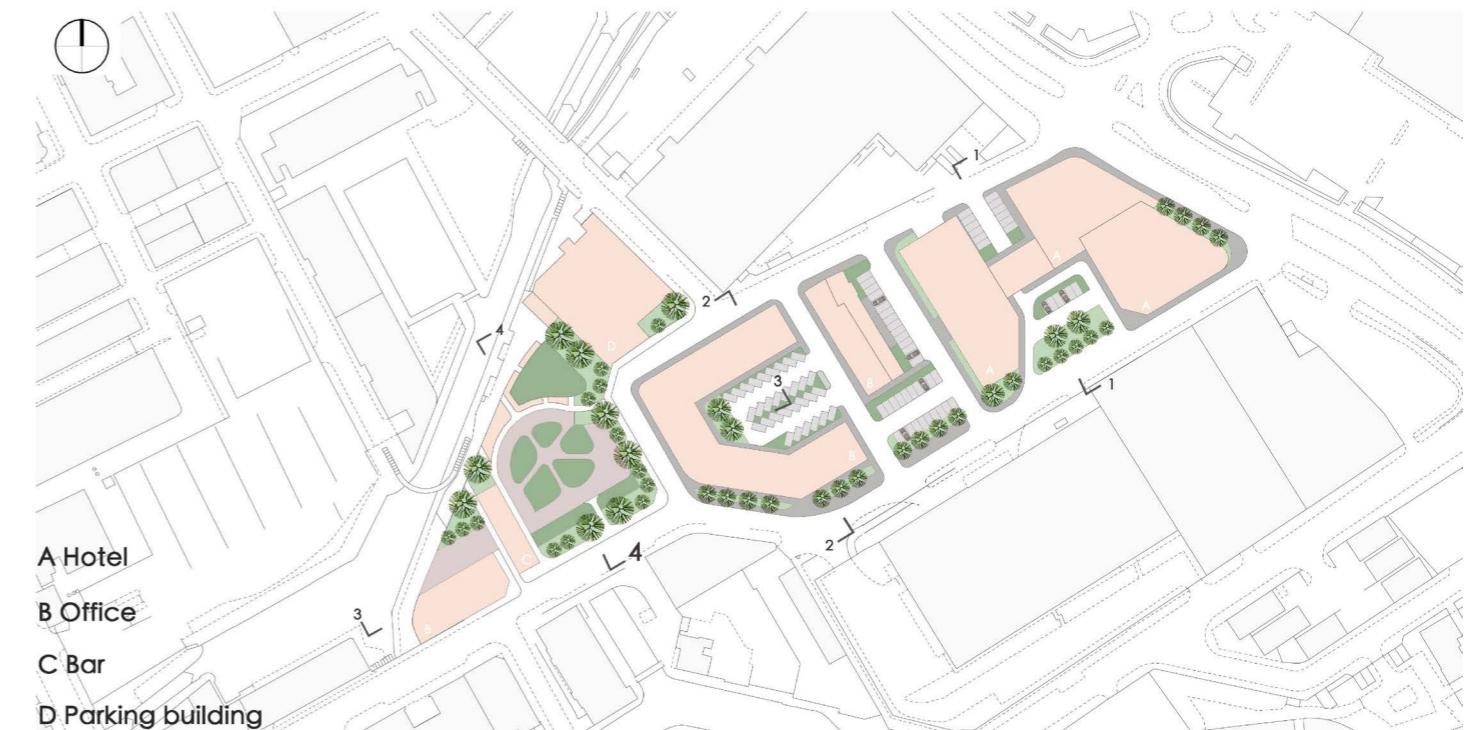
Broughton Bridge, Salford

XIAOXIAO XU

First Street South, Manchester



XIAODAN QIN
Deansgate, Manchester



RUOBING HAN
Northern Quarter, Manchester

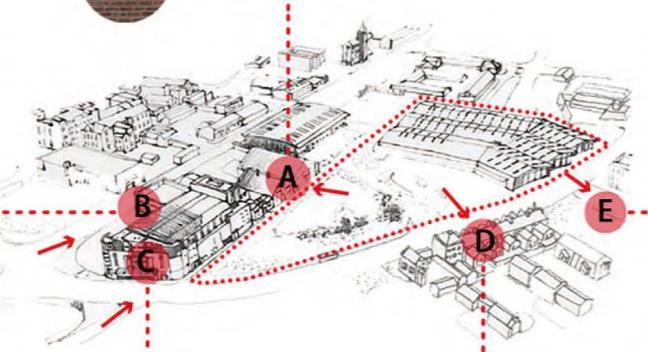
A.

- A 3 stories workshop
- Grey tile slope roof
- Mixed brown brick wall
- Large volume and Poor permeability



B.

- Key view from main node
- The private car park only for staff
- This front is an arcuated chamfer.



C.

- A 5 stories odeum building
- O2 Apollo is a list building
- Main entrance of O2 Apollo
- Rice white brick and coating wall



D.

- A 3-4 stories theater building
- Ground floor is retail and upper stories are apartment
- Reddish brown brick wall
- Featured corner—hexagonal tower



TIANXIANG LONG

Ardwick Delta, Manchester



NADA AZZAZ

Piccadilly Basin



URBAN DESIGN ANALYSIS

Image by: Dr Taki Eddin Sonbli - From the *Adding Variables 1: Analysis* Handout

This studio based module aims to introduce students to basic urban design analysis, it provides a framework of critical urban analysis at multiple scales and sets the foundations for the formation of urban design principles and practice. Students are expected to develop design, graphical and presentational skills to communicate urban design analysis and design proposals, as well as begin to think critically on form, space and process.

The project involves a detailed design assessment of a neighbourhood within the Greater Manchester region were students illustrate a detailed

understanding of the current condition and character of the location culminating in broad urban design opportunities and constraints model.

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UNIT CONVENORS

Dr Nuno Pinto
Dr Philip Black
Mr Robert Phillips

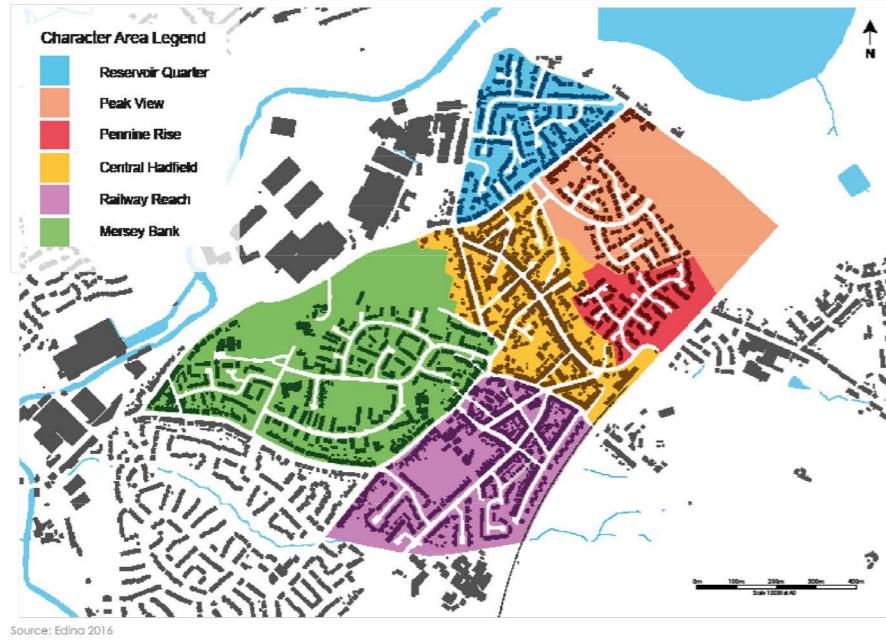
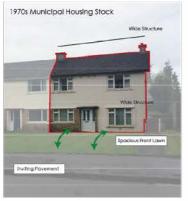
DESIGN TUTORS

Dr Taki Eddin Sonbli
Mr Michael Martin

STUDIO ASSISTANTS

Ms Amanda Briggs

A perspective view down Station Road

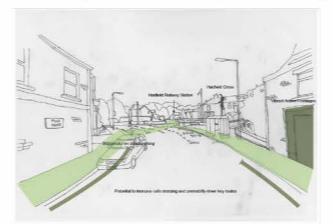


Opportunities and Constraints

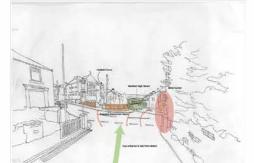
Opportunities

- Enhance major economic corridor
- Promote active frontage
- Balance on-street parking
- One-way street restrictions to improve safety
- Large scale intervention potential at key node
- A more desirable and inviting entrance from the station into key points of the site
- Development of small brownfield sites
- Improve uninviting key paths

Sketch of the High Street Active Frontage & Street Parking



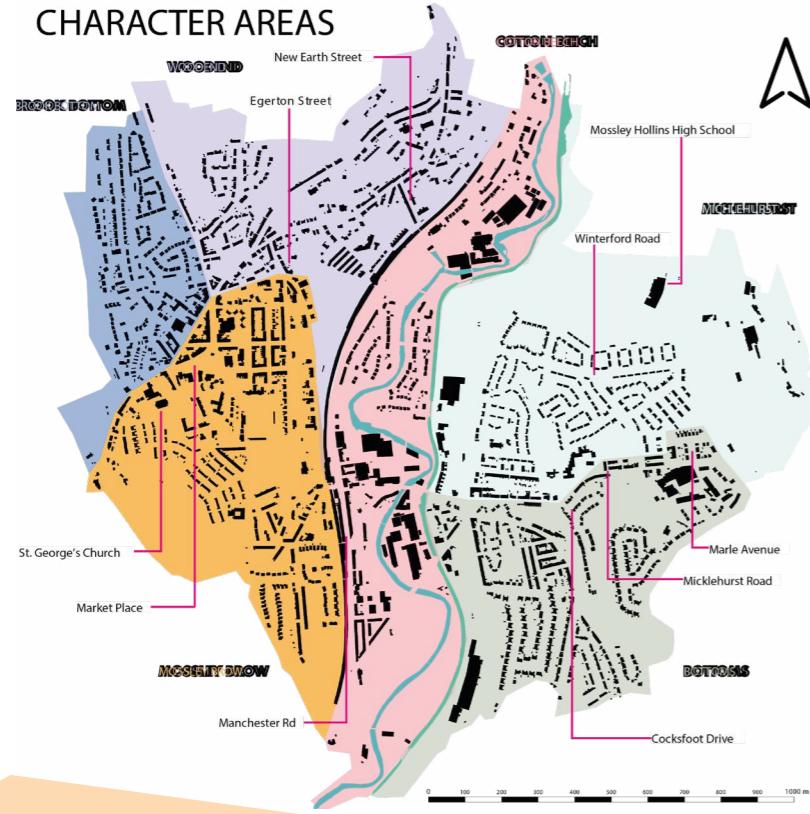
Sketch of the poor arrival into the site from the stc



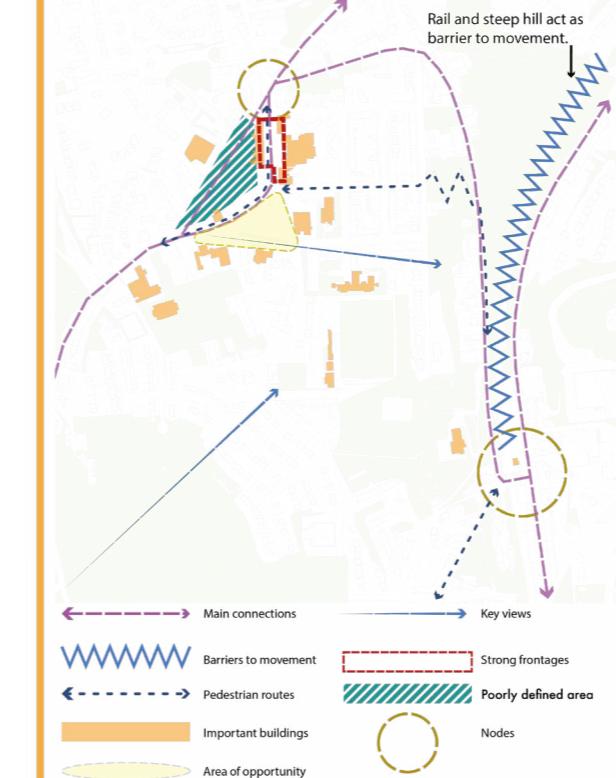
Constraints

- Restricting buildings, including light industry area
- Number of dangerous entrances coming together at key node make it hard for intervention
- Limited opportunity for multi-mode transit stop between bus and train
- Narrow street with no path
- Borders of public realm are part of a historic and sensitive design
- Relocation of station car park and other occupants

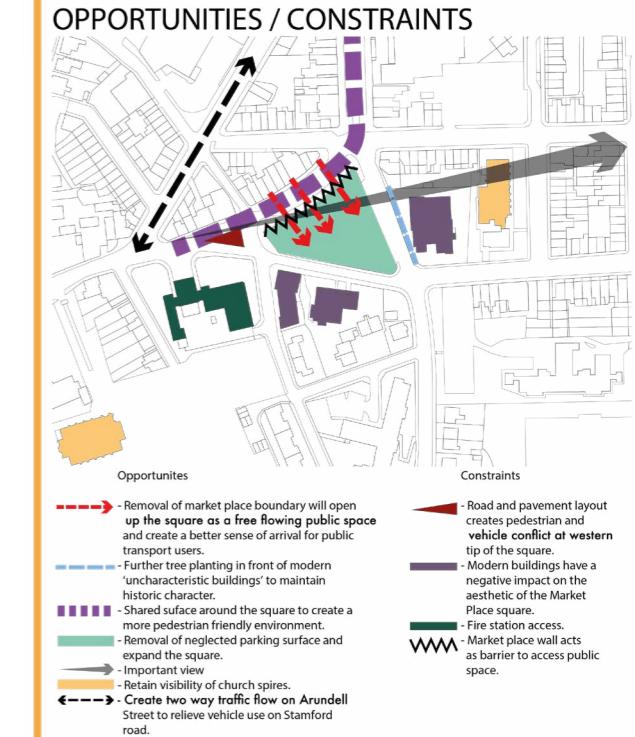
CHARACTER AREAS

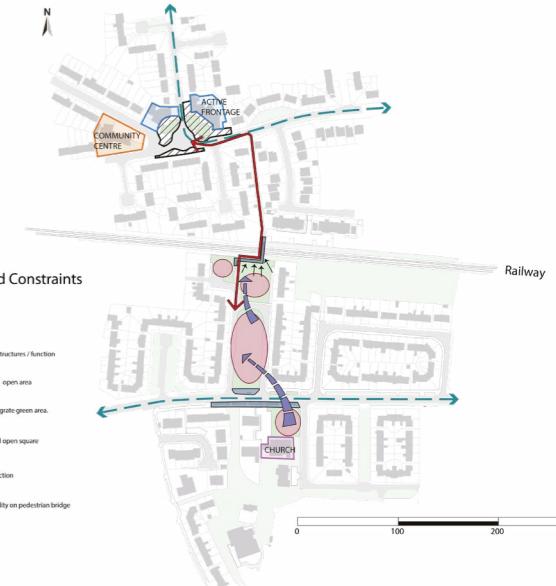


CONTEXTUAL APPRAISAL



OPPORTUNITIES / CONSTRAINTS





JACK LIVINGSTONE

Swinton Neighbourhood Analysis

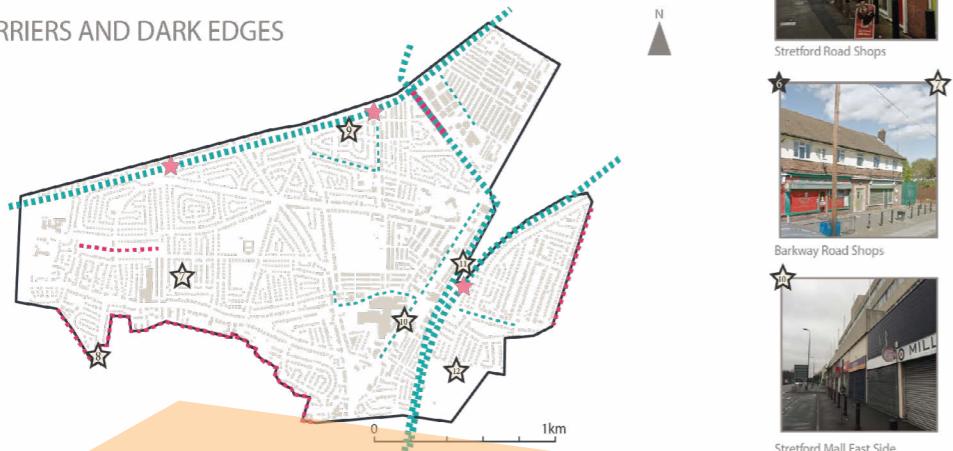
NENG-WENG HUANG

Baguley Neighbourhood Analysis

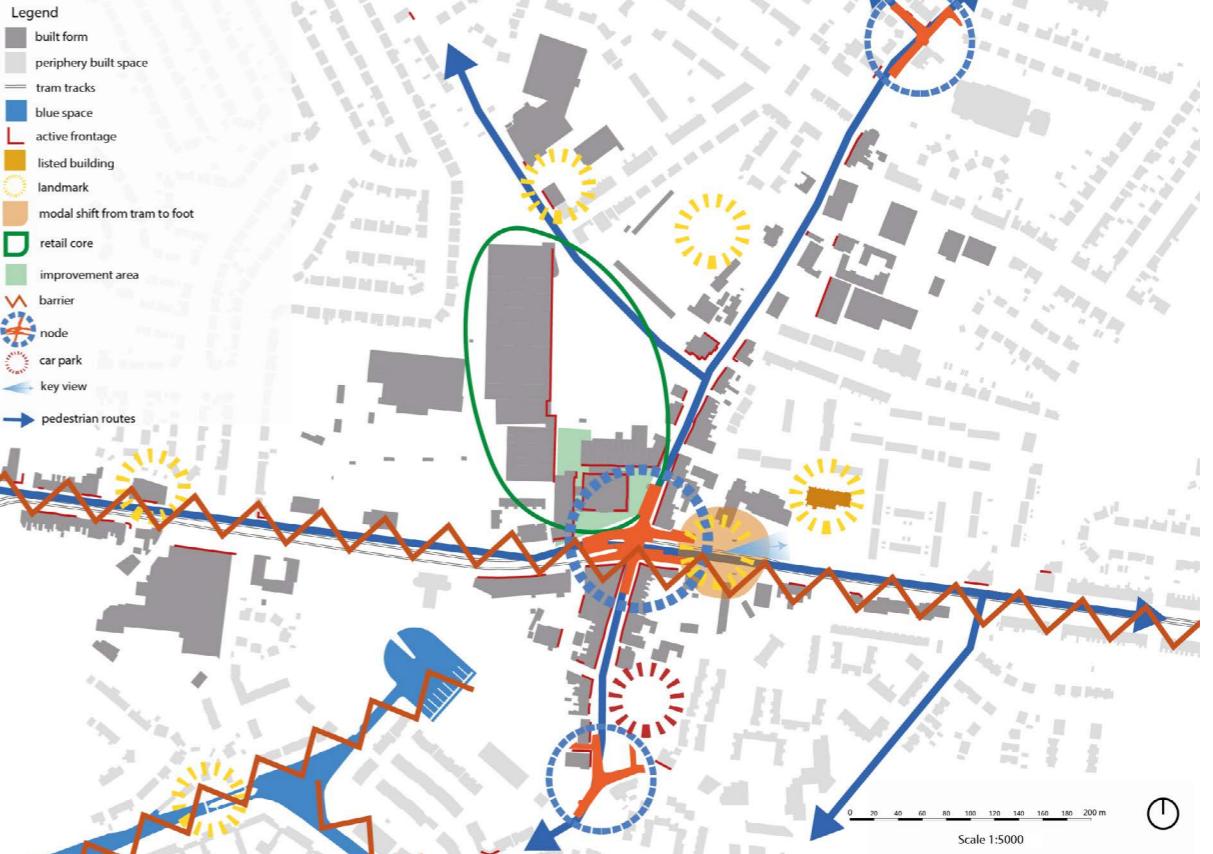
ACTIVE FRONTEAGE



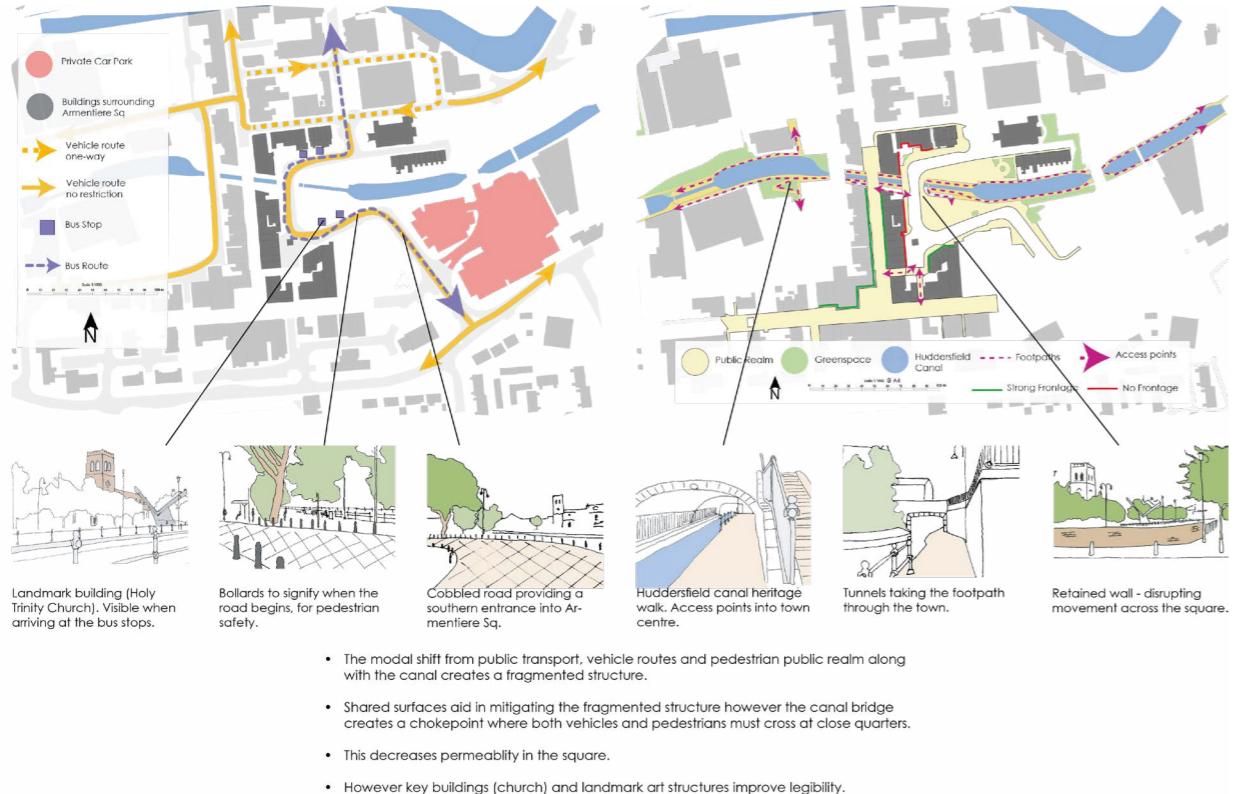
BARRIERS AND DARK EDGES



SHANNON HENRY
Stretford Baseline Analysis

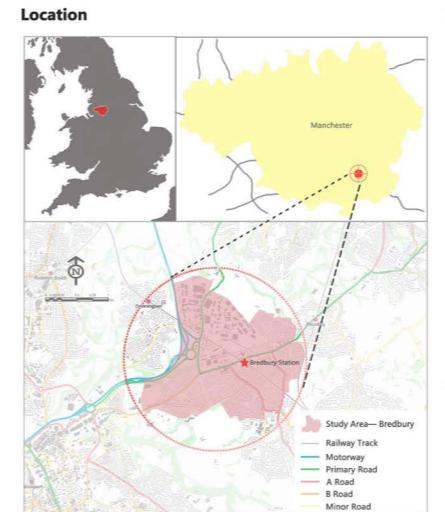


KATARINA ZULVER
Droylsden Neighbourhood Analysis



THOMAS ROYLES

Droylsden Neighbourhood Analysis



Bredbury is located to the north-east of Manchester City Centre and is considered to be within the Stockport City boundary, which lies along the Manchester Outer Ring Road.

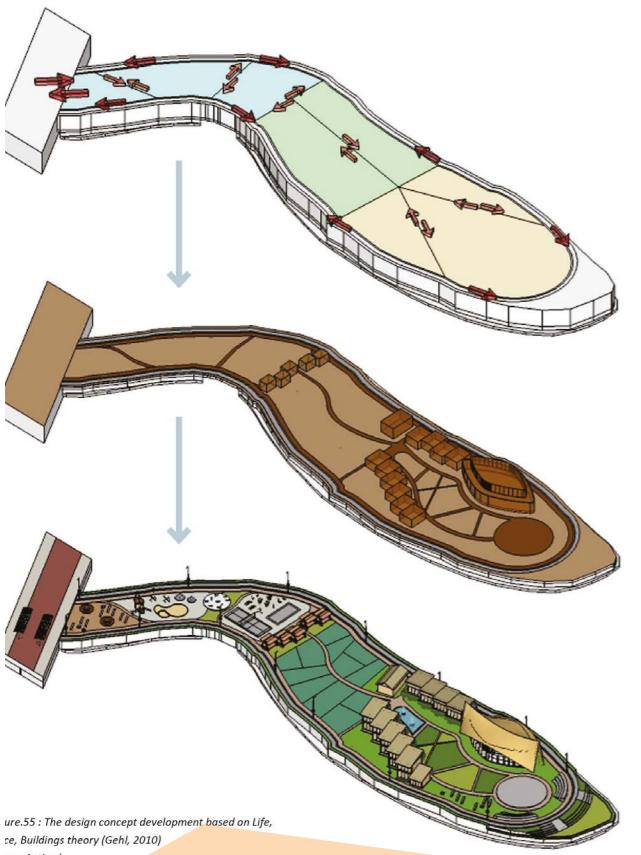
ZHICHAO WANG

Bredbury Neighbourhood Analysis



DESIGN DISSERTATIONS

Image by: Joseph Greaves



RAISA SEMBIRING

Reshaping the Informal City

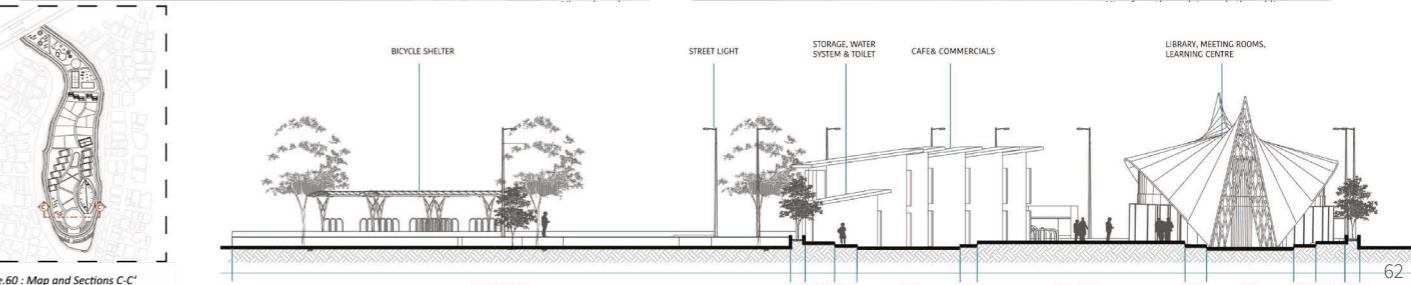
61

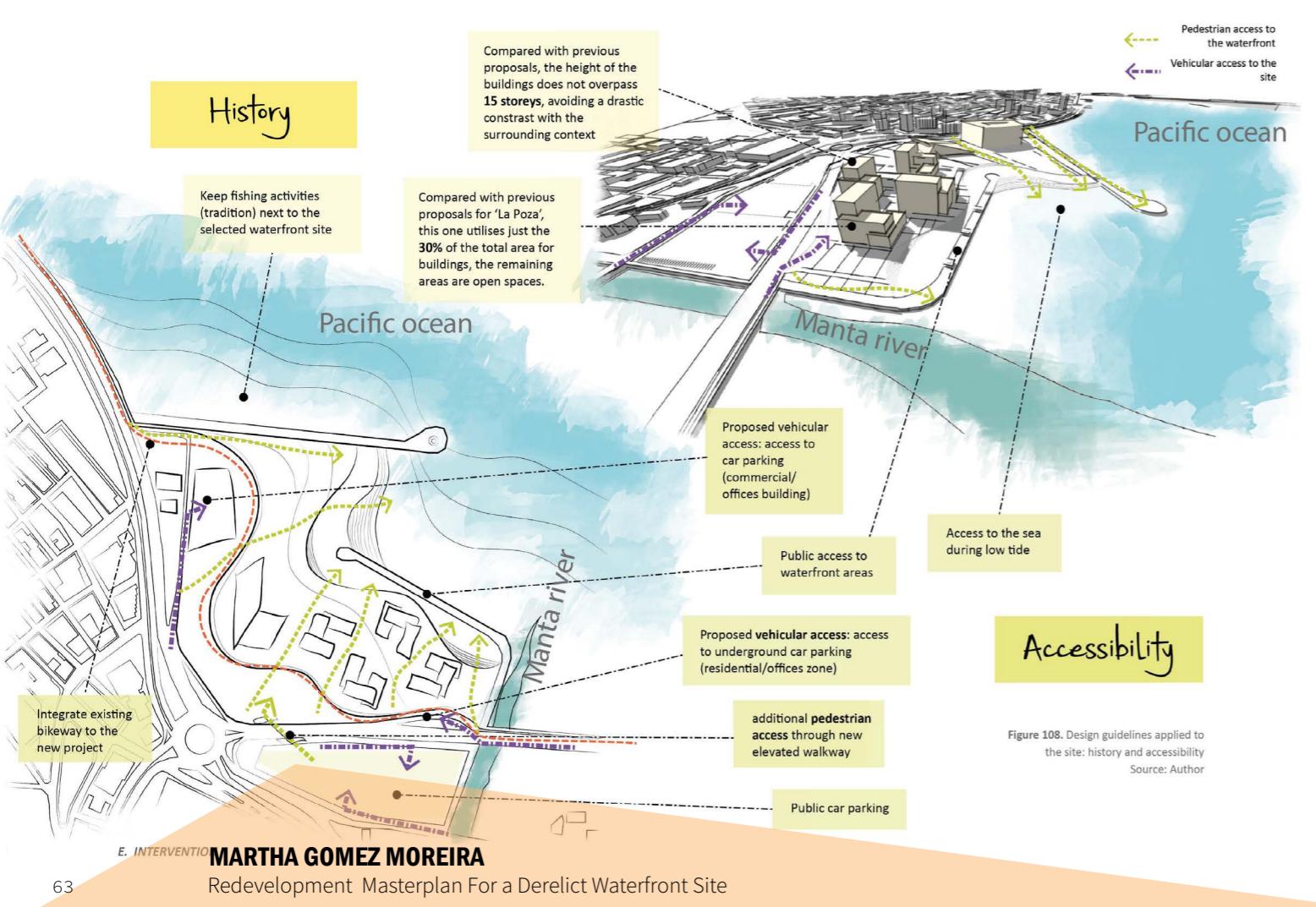
Reshaping the Informal City: The Case study of Tamansari Bandung, West Java-Indonesia

Supervisor: Dr. Philip Black

This dissertation looked deeply at the cases of informal housing in one of Indonesia's largest cities, Bandung, specifically in the Tamansari area. The area is complex and suffers from the risk of natural disasters and flooding unless solutions are found. The focus of this study is to enhance the public realm in the wider area, tackling risks and create and improve public space in the region.

The proposed masterplan attempts to create an '*urban oasis*' through the design of streets, spaces, and buildings that are contextual to the culture, climate, and needs of the local communities. The plans propose much needed green and open space in a dense and disorganized location providing valuable local amenity and seeking to act as a catalyst for future development.



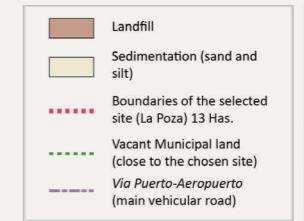
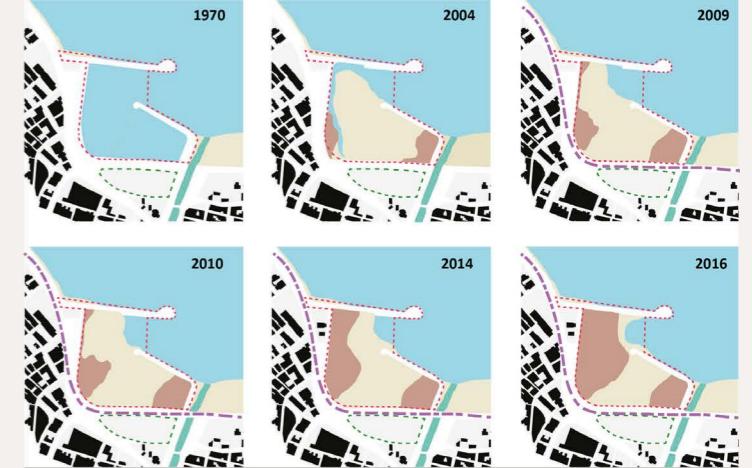


Redevelopment Masterplan For a Derelict Waterfront Site: A Case in Manta- Ecuador

Supervisor: Dr. Philip Black

This dissertation aimed to generate a redevelopment masterplan for a derelict site (La Poza) in Manta, Ecuador. The masterplan responds to a researcher developed design framework that considered a range of issues including the contested history of the site and its strategic waterfront location.

The final design incorporates a complex of mixed-use buildings keeping the free access to the waterside through wide public areas such as parks, plazas and promenades. Great attention was paid to ensuring interventions harnessed the key views of both the ocean and the city skyline. The high tide levels are well considered to avoid flooding with access to a beach provided during low-tide periods.



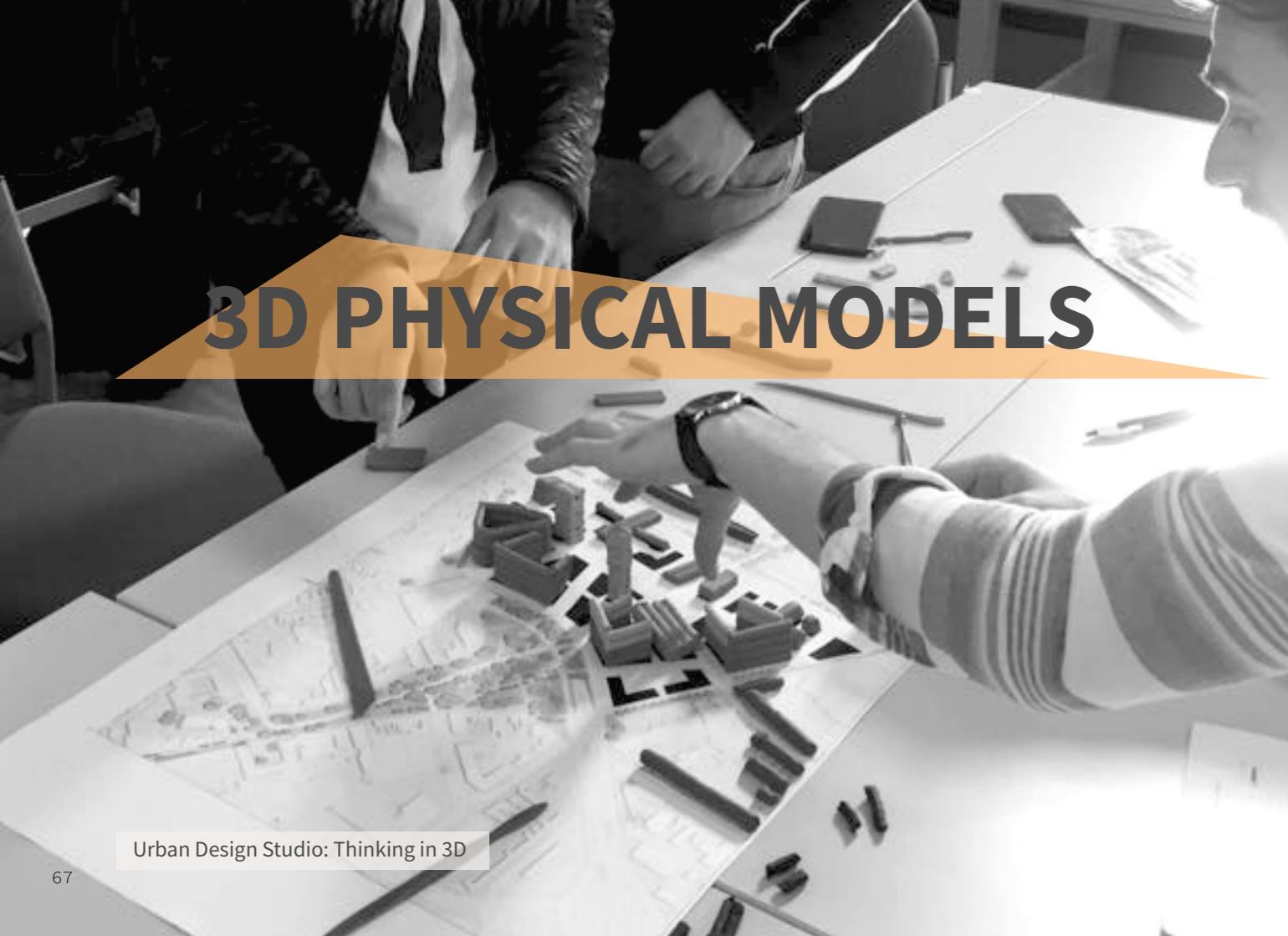
Lever Street
Oldham Street
Pedestrianisation



JOSEPH GREAVES

Redesigning Piccadilly Gardens





3D PHYSICAL MODELS

Urban Design Studio: Thinking in 3D



The SEED B.15 Model Making Workshop caters for students in both Architecture and Urban Design at University of Manchester. The workshop offer facilities and advice for the production of scale development and presentation models for use in student projects. The workshop offers state of the art digital fabrication technology alongside core traditional manufacturing techniques.

The aim is to continually develop the facility in line with industry standards and equip students with a good understanding of contemporary and traditional approaches to making.

Urban Design students produce scaled models (1:750 or 1:1000) to be submitted alongside their Urban Design Project proposal. It is an excellent way for students to visualise their ideas and designs in three dimensions and acts as a developmental as well as representational and presentational tool.

Due to space constraints in the Yearbook only a small selection of the models from this year can be showcased.

B.15 WORKSHOP STAFF

Senior Technician

Jim Blackhouse

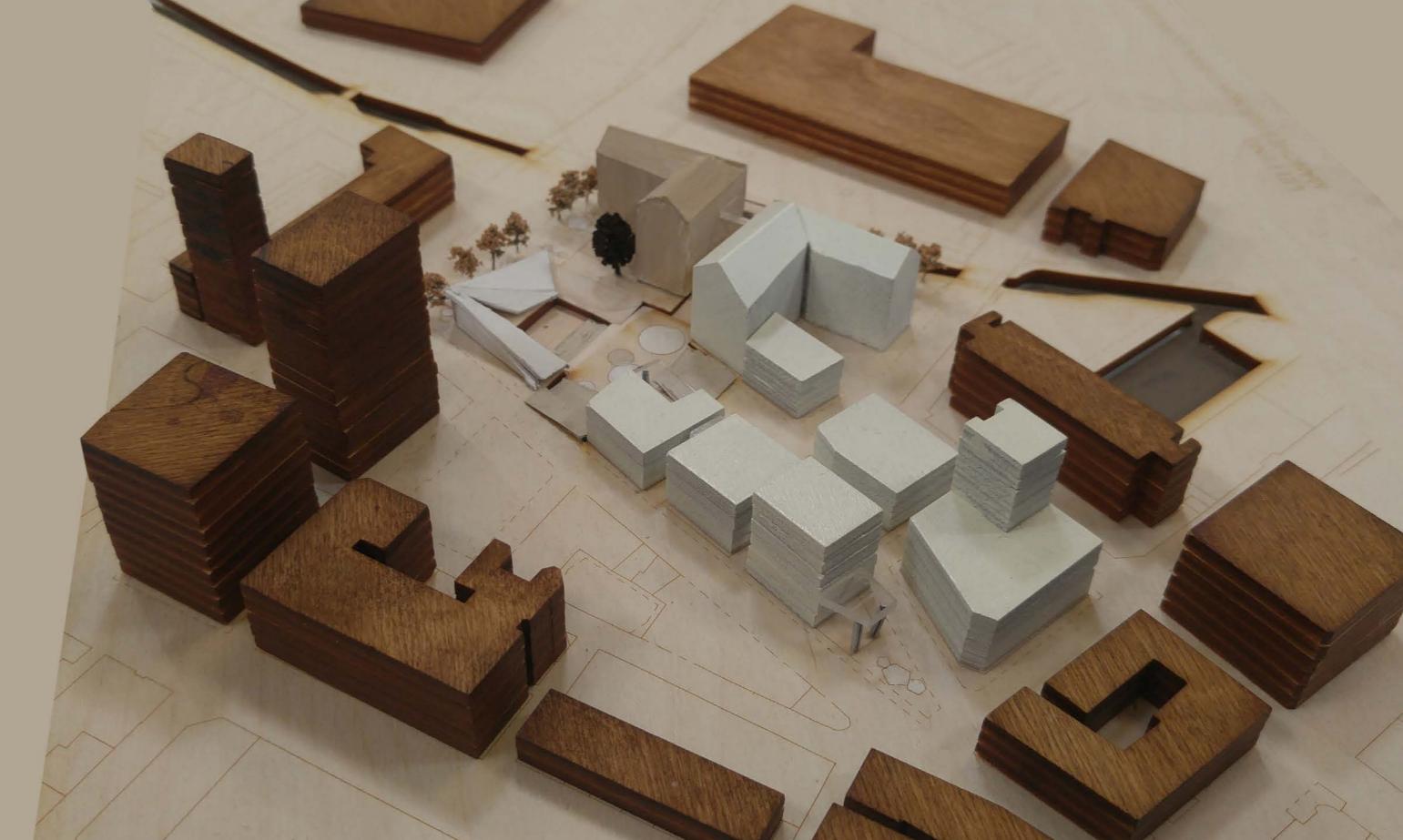
Technician

Scott Miller



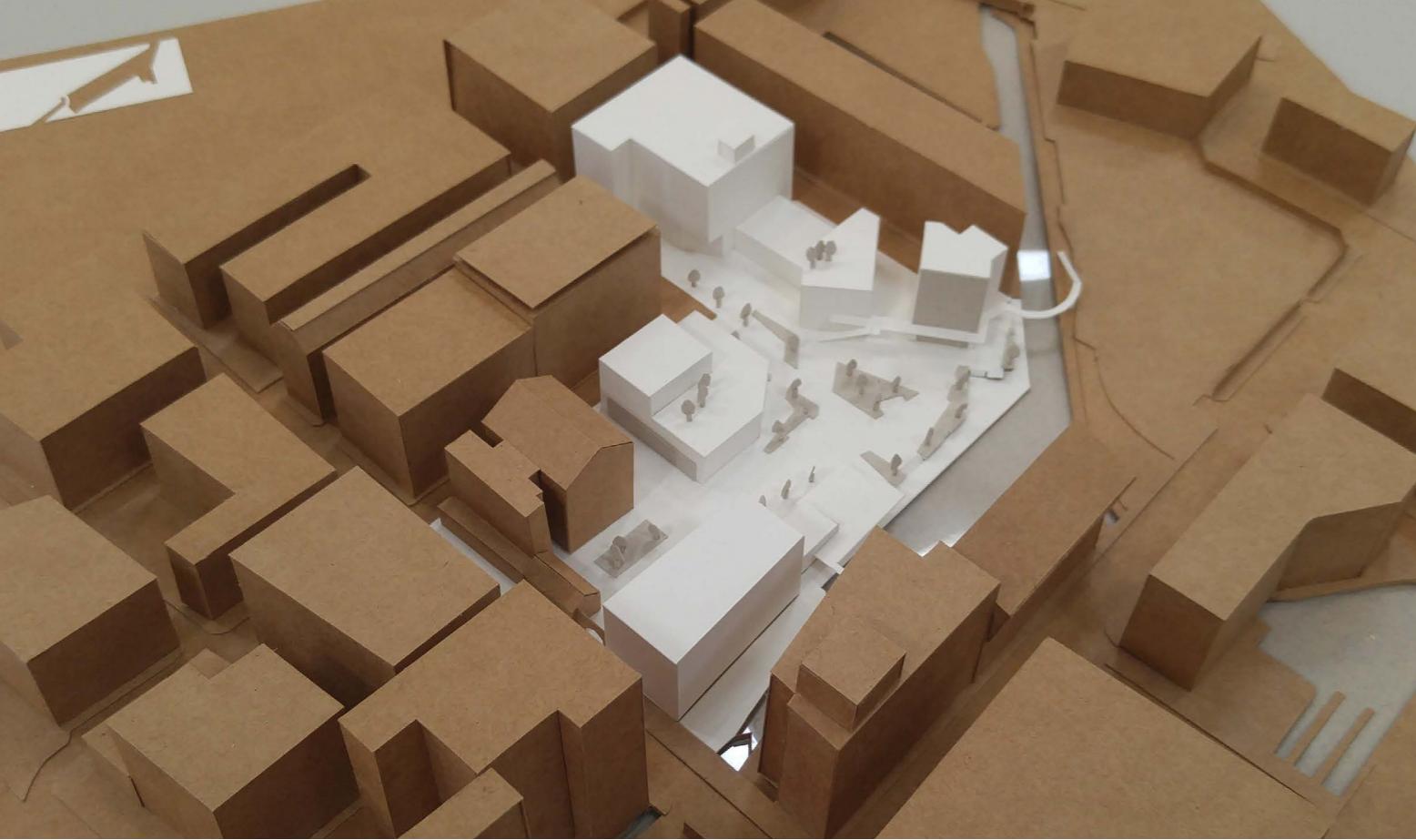
XINTONG CHEN

Broughton Bridge, Salford



LEI FENG

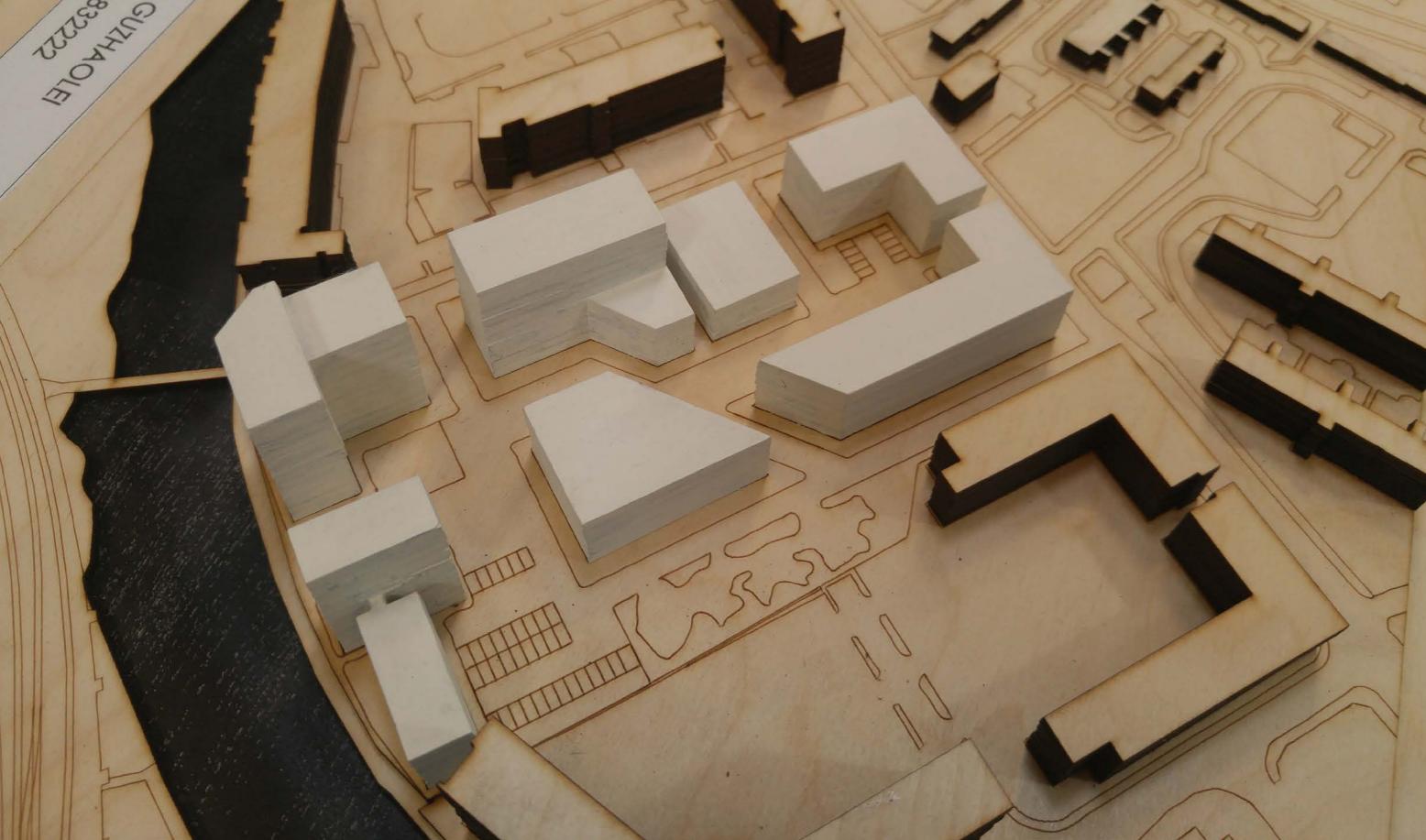
Northern Quarter Corner Site



CHING-JUNG CHEN
Piccadilly Basin, Manchester



JIA PAN
First Street South, Manchester



73

GU ZHAOLEI
Salford Quays



74

RUJING WANG
Northern Quarter, Manchester



75

NENG-WENG HUANG
Piccadilly Basin



76

MARTHA GOMEZ MOREIRA
Redevelopment Masterplan For a Derelict Waterfront Site

REAL ESTATE

URBAN DESIGN

URBAN DESIGN

URBAN DESIGN



URBAN DESIGN