

A detailed, light grey map of Manchester serves as the background. It shows a dense network of streets and building footprints. The River Manchester is depicted in a light blue color, winding through the city. In the top right corner, there is a black rectangular box containing the text 'MANCHESTER 1824'.

MANCHESTER
1824

The University of Manchester

URBAN DESIGN

Yearbook **2017**

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

Edited and designed by:

Dr Taki Eddin Sonbli
Dr Philip Black

Publisher:

Planning and Environmental Management
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

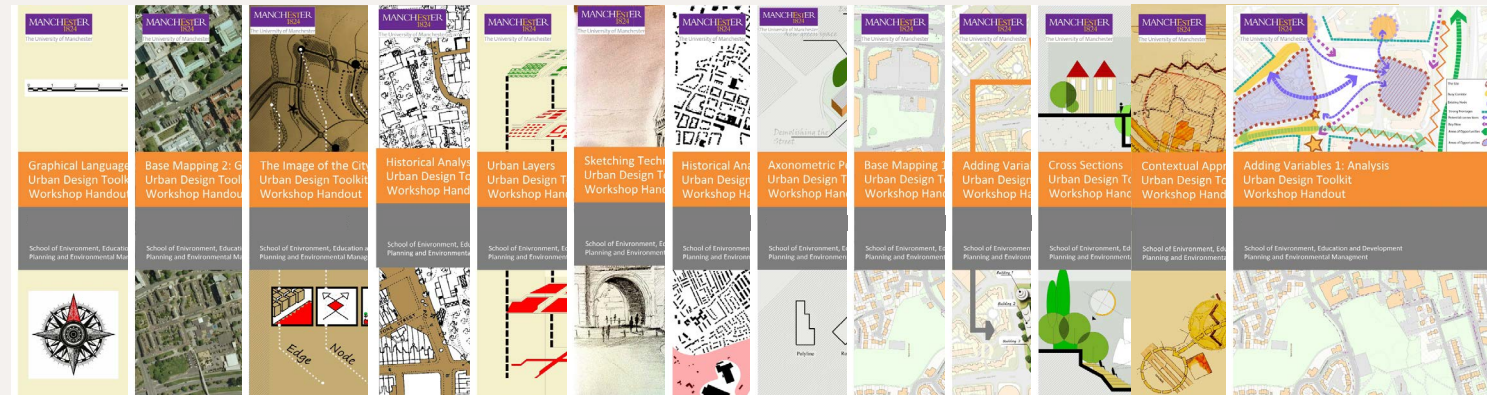
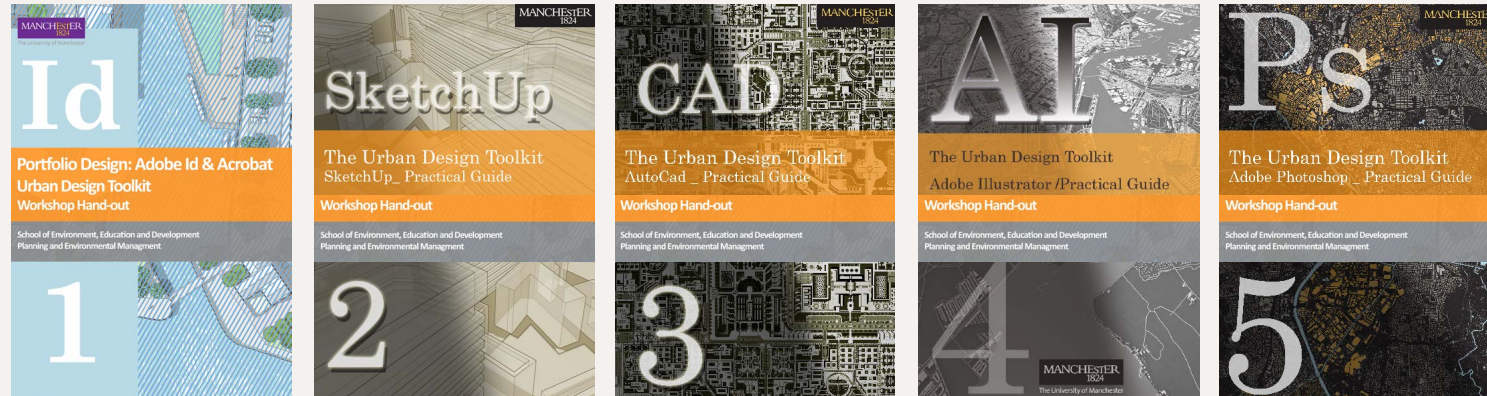
Studio Tutor

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 Sonbli
Mr Michael Martin

TOOLKIT EDITOR

Dr Philip Black

CONTRIBUTORS

Mr Robert Phillips
Dr Nuno Pinto



MASTER PLAN STUDIO

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



RUJING WANG
Ordsall, Salford



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.

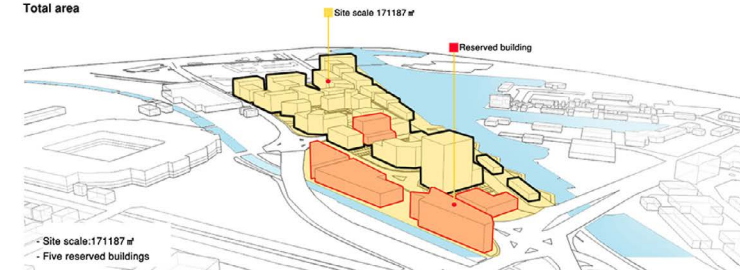
This years winner and the recipient of £150 for Best Urban Design Project is **RUJING WANG**

"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

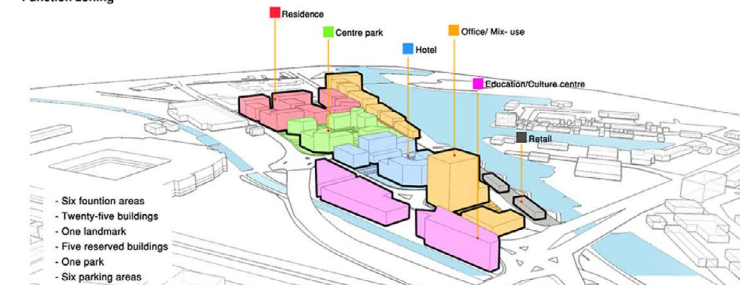


Fountain analysis

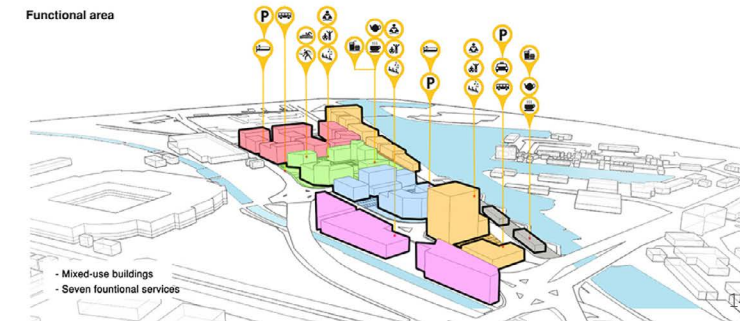
Total area

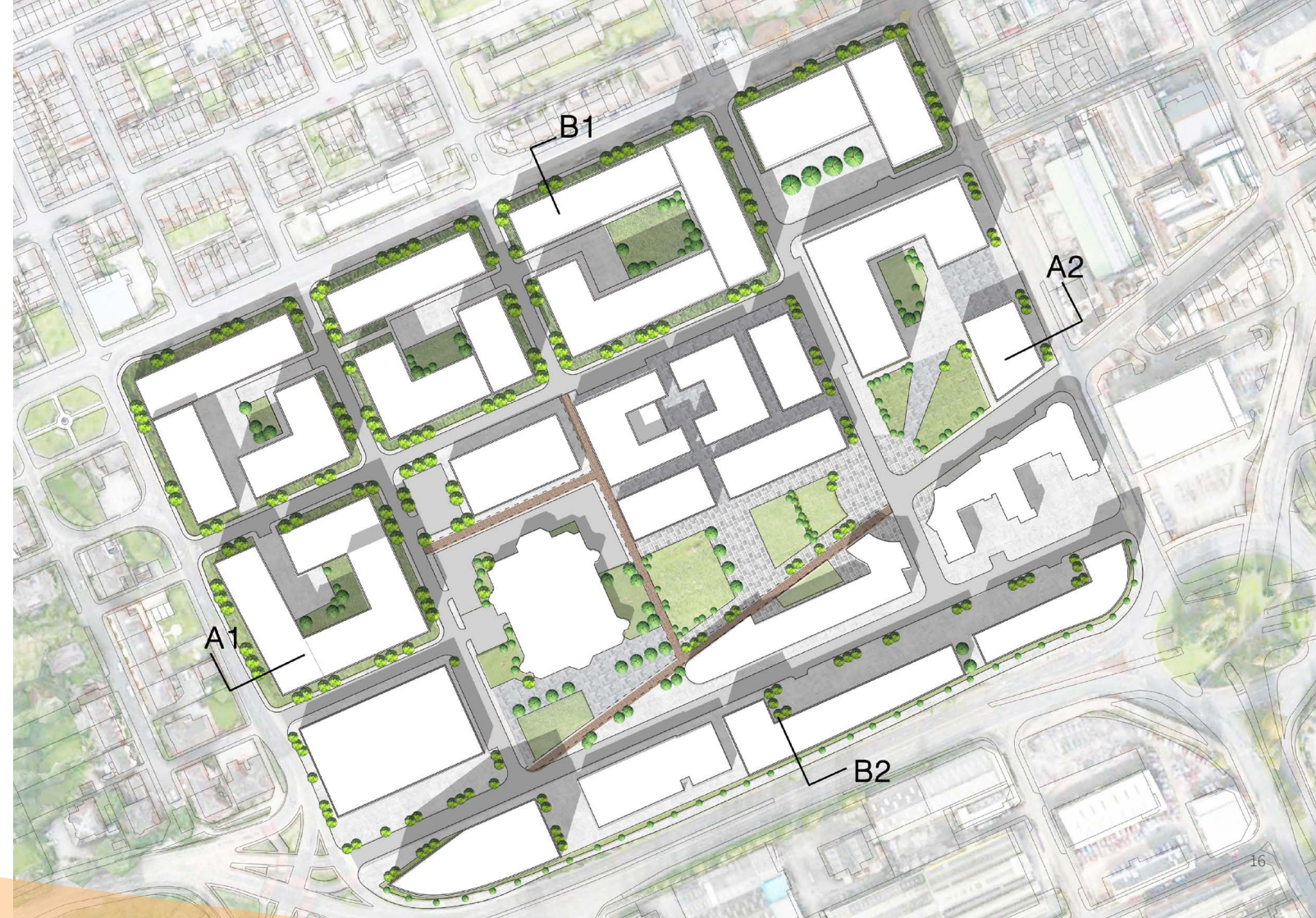
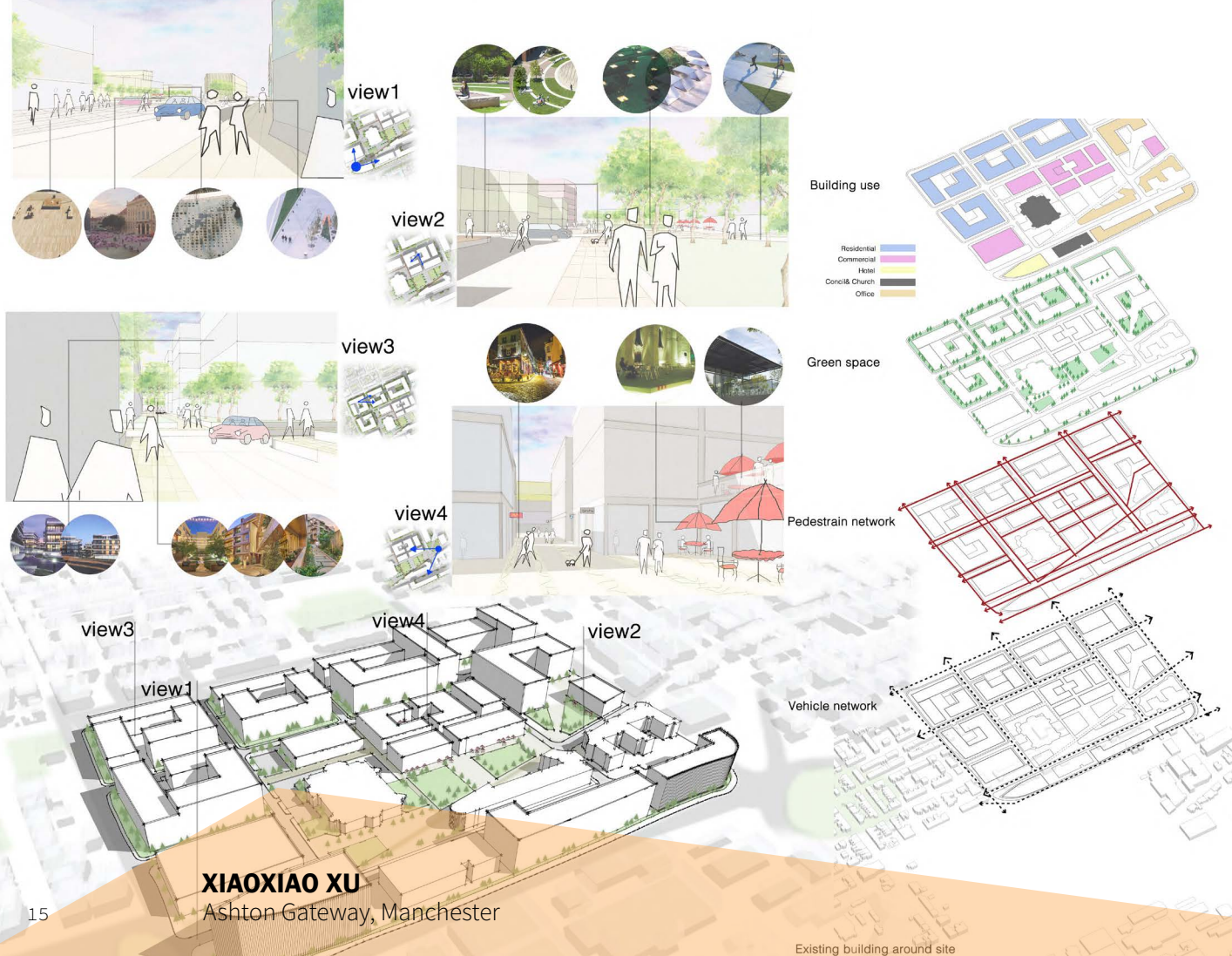


Function zoning





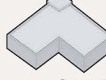





Functional area

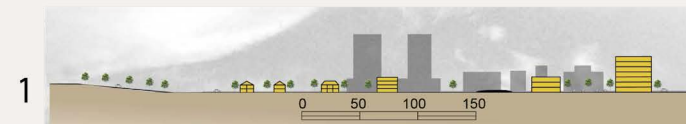


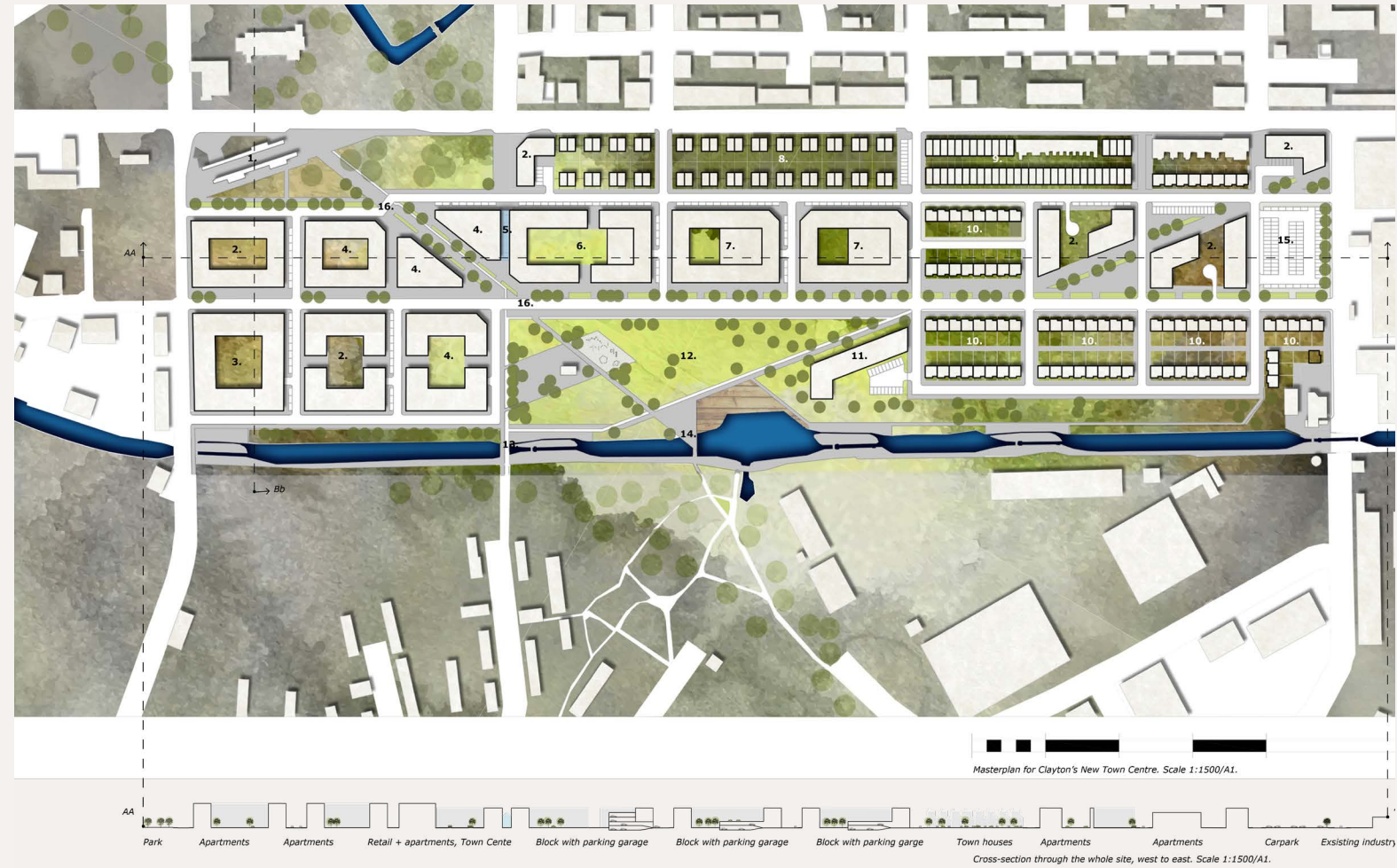
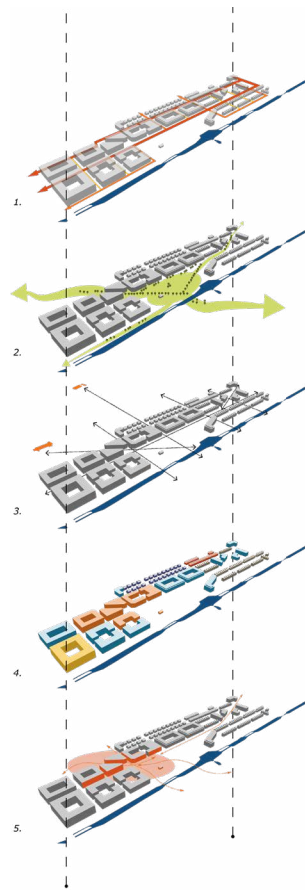




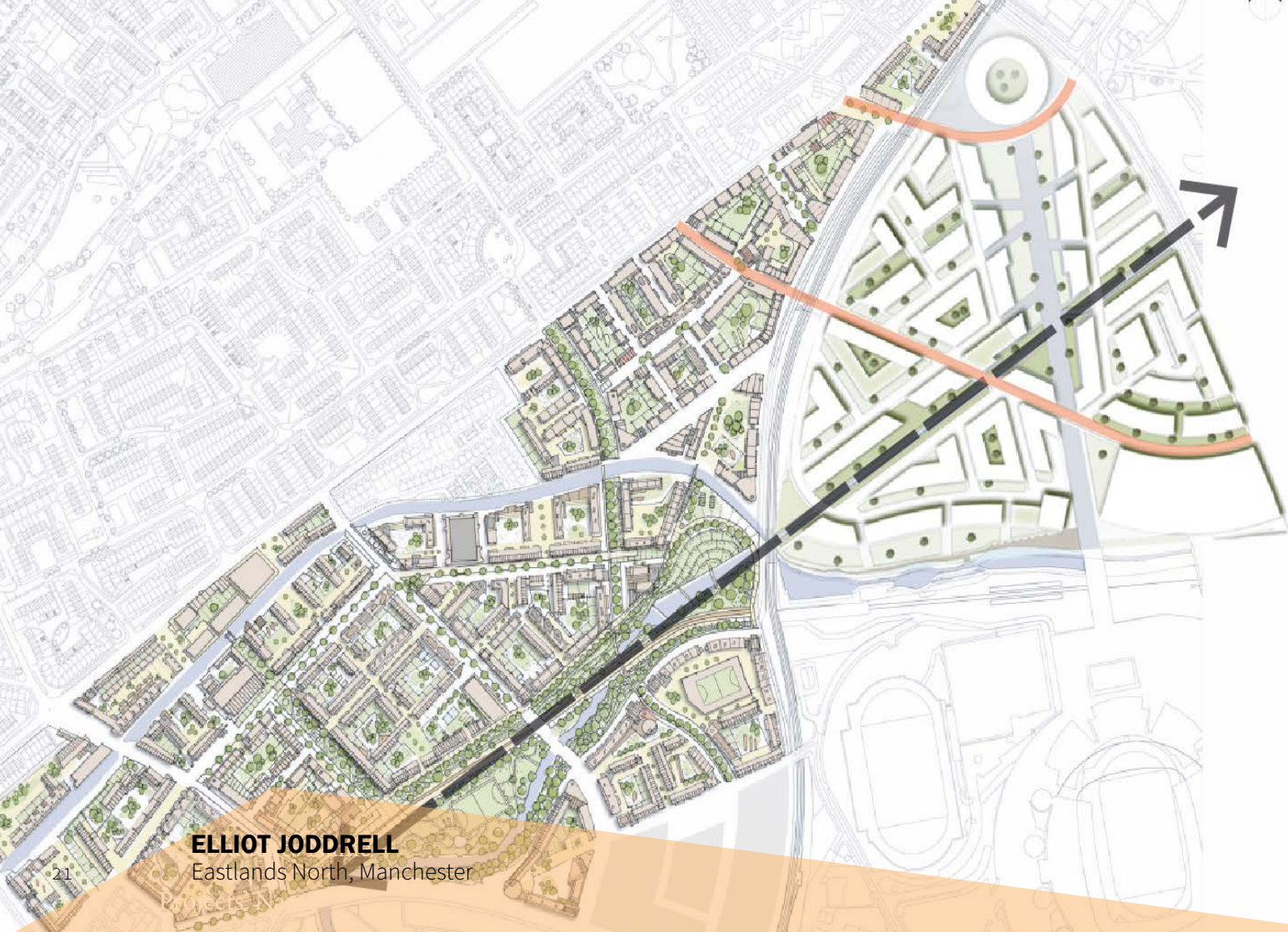
LEI FENG
Belle Vue, Manchester

-  Primary School (Belle Vue)
2-4 storeys main building with playground
-  Mix-used building
3,4 storeys building
G/F Commercial use
Others are flexible as office or apartments
-  Supermarket
1 storey supermarket
-  Apartment
5-7 storeys apartment countering the corner
-  Apartment
2-3 storeys apartment
-  Terraced houses or townhouse
2 storeys
-  Semi-detached houses
2 storeys
-  Detached houses
2 storeys





LINN ABRAHAMSSON
Clayton Town Centre, Manchester



ELLIOT JODDRELL

Eastlands North, Manchester

Project 1



AKSHITA PANWAR

Trafford Wharf

Project 2



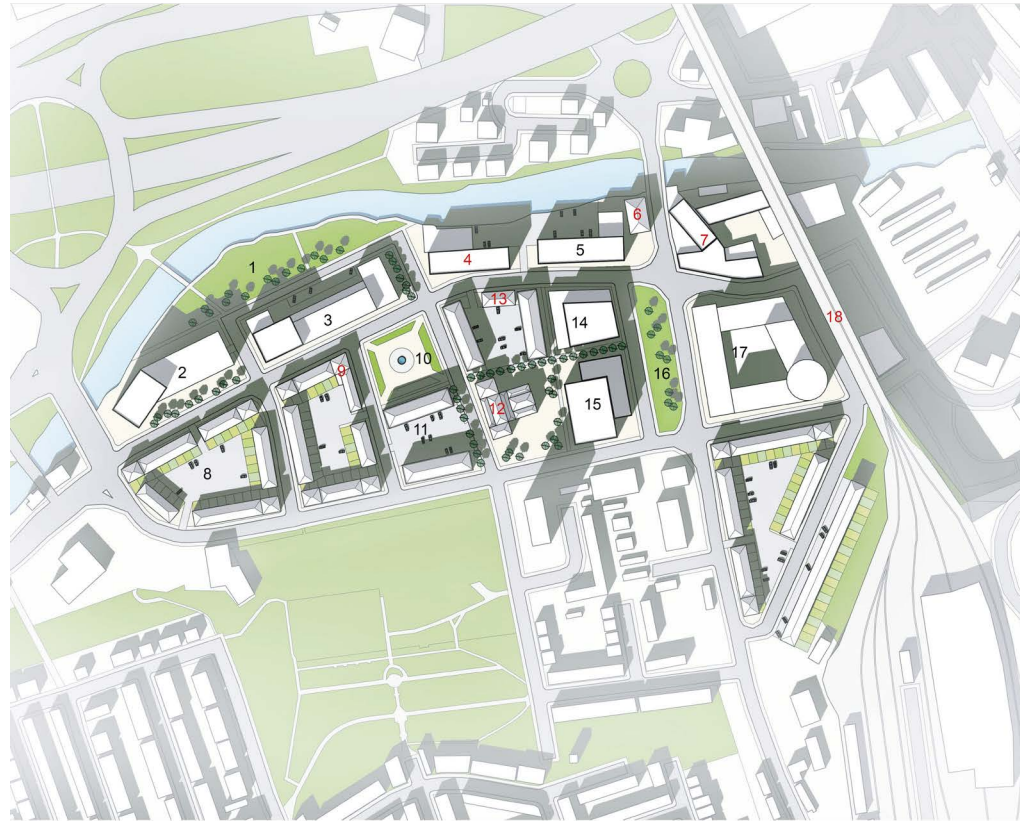
JACK LIVINGSTONE

Handforth Garden Village, Manchester

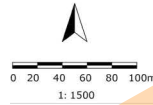


VIDUSHI AGARWAL

Trafford Wharf



- 1 Waterfront park
2 Apartment with ground floor car park 6-9F (landmark)
3 Apartment with ground floor retail and underground car park 2-7F
4 Kingston Mill 1-6F (listed building)
5 Office building 2F
6 Former Halwicks 2F (listed building)
7 Wear Mill 1-6F (listed building)
8 The Holygate 2-3F (listed building)
9 Townhouses with backyards and car park 2-3F
10 Apartment with car park 3F
11 Central square
12 Holywood Park Centre 2-4F (listed building)
13 213 Chester Gate 2F (listed building)
14 Office building with underground car park 2-5F
15 Office building with underground car park 3-8F
16 Liner green space
17 Mix use building with ground floor retail and car park 1-13F (landmark)
18 Railway Viaduct (listed building)



MEIQI LIU
Stockport Gateway

Guidelines Green & Blue Infrastructure



Public Realm & Listed Buildings

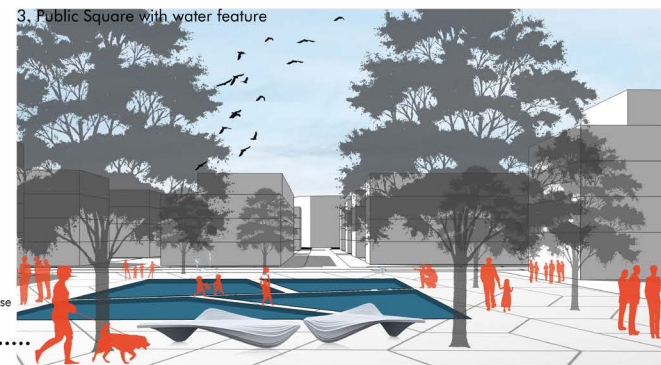
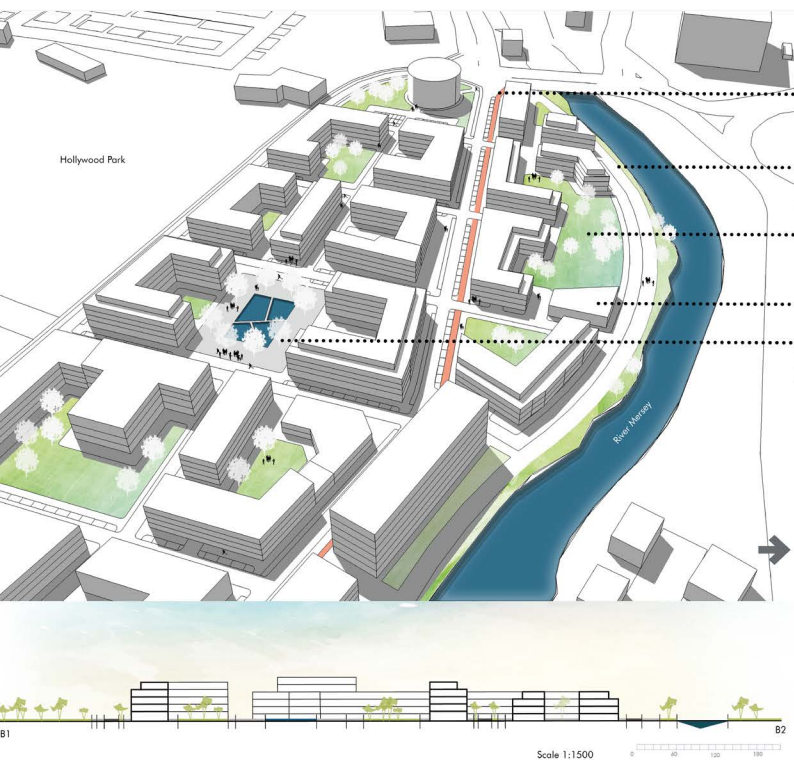


Car Park & One-Way System



CALLUM CAMPBELL
Ashton Gateway, Manchester





Green Quarter

Canal Corridor

Pedestrian Bridge

Waterfront

Public square



JULIA JOHANSSON
Stockport Western Gateway

KATARINA ZULVER
Ordsall, Salford



URBAN DESIGN PROJECT

Image by: Dr Taki Eddin Sonbli - From the *Thinking 3D* Handout

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

Dr Philip Black

DESIGN TUTORS

Dr Taki Eddin Sonbli

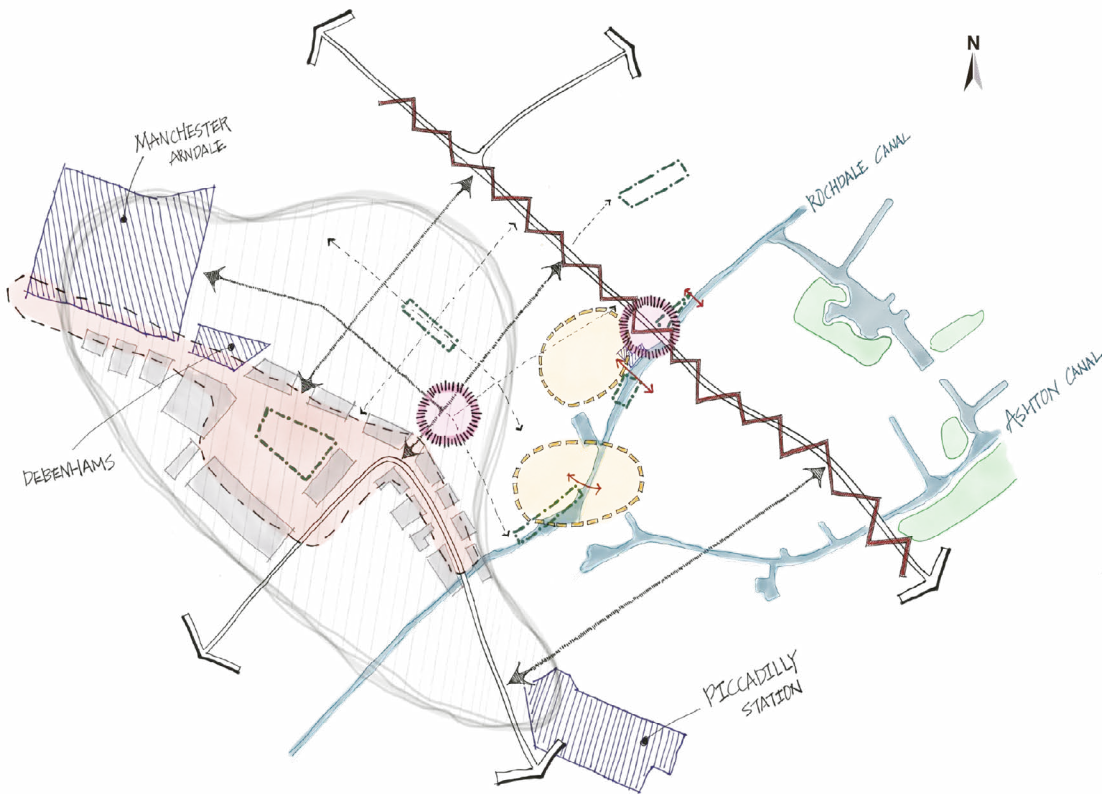
Mr Robert Phillips

Mr Michael Martin














STUDIO ASSISTANTS

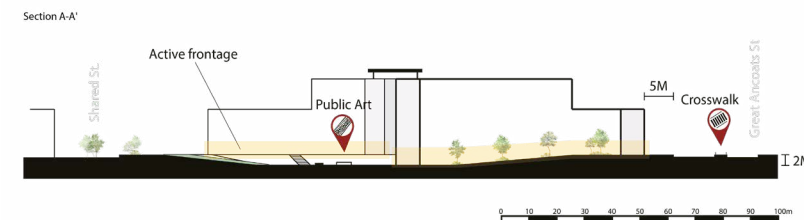
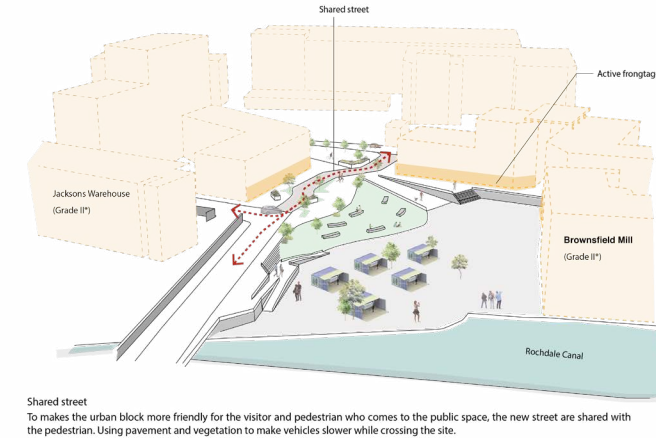
Ms Amanda Briggs

Ms May Newisar



Legend

-  Main Connection
-  Secondary Connection (with public transport service)
-  Minor Connection
-  Barriers to Movement and Links
-  Minor Route
-  Local Street
-  Areas of Opportunities
-  Areas with Strong Frontage
-  Activity Areas
-  Vegetation
-  Open Space
-  Important Buildings
-  Buildings with Strong Frontage



Turley Prize

Commendation 2017

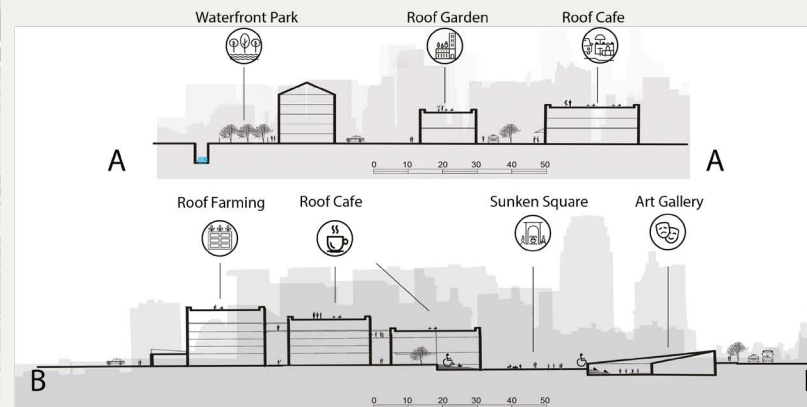
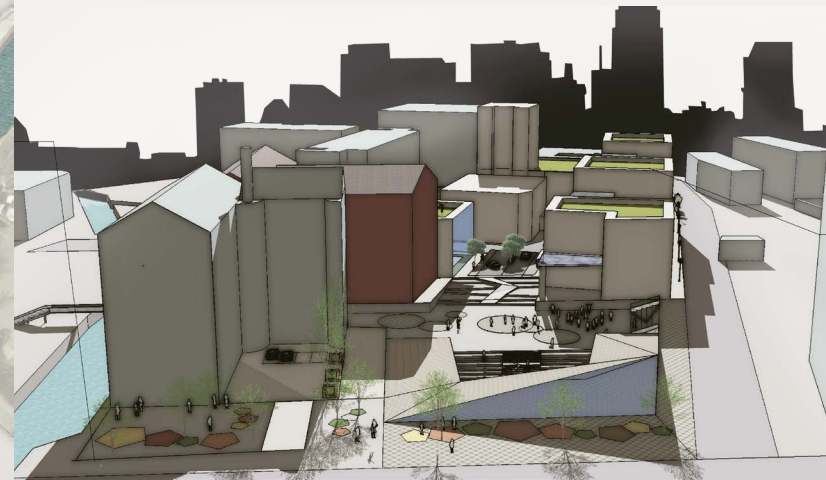
This year Turley have awarded two **special commendations** for projects shortlisted for the Turley Prize for Best Urban Design Project.

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

LEI FENG

Northern Quarter Corner Site



Turley Prize

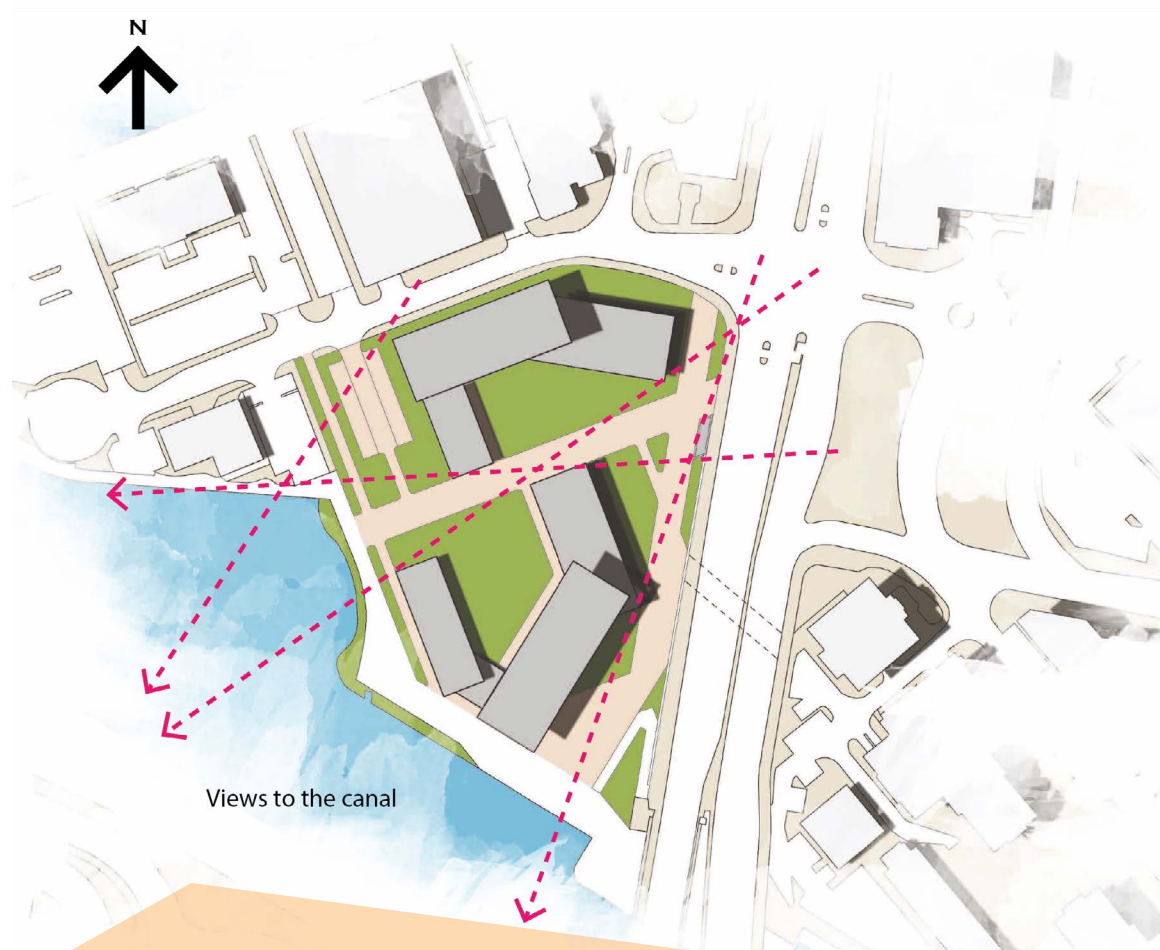
Commendation 2017

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**

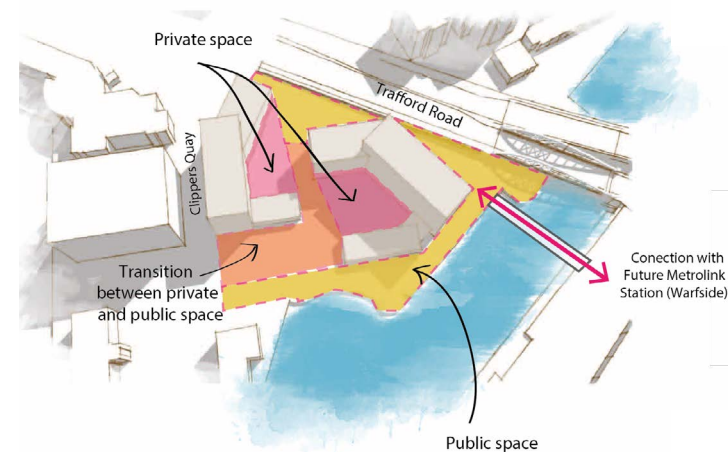
"We enjoyed Lei's willingness to explore bold ideas in her masterplan. Her proposal to re-structure movement patterns around a proposed Art Gallery and a public space attempt to tackle some of the fundamental issues within this site and its location on a key arterial route in the city"

Turley, Manchester

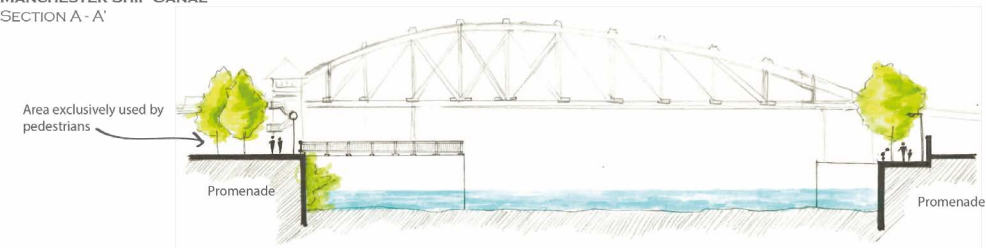


MARTHA GOMEZ MOREIRA
Clippers Quay, Salford

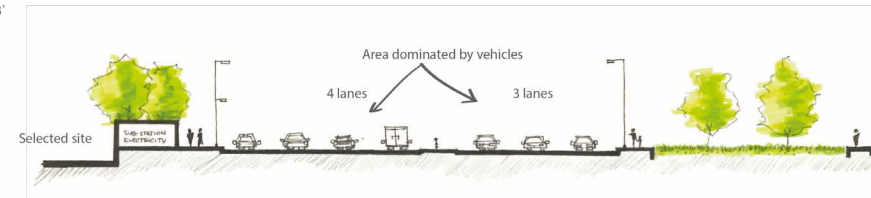
DIFFERENTIATE PRIVATE AND PUBLIC SPACE



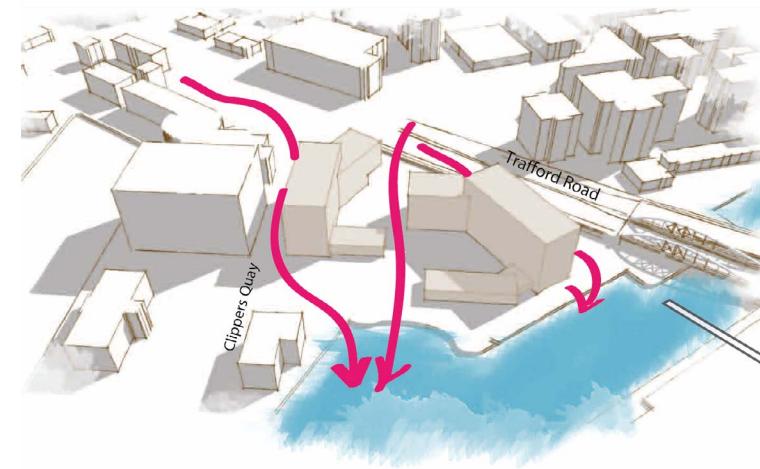
MANCHESTER SHIP CANAL
SECTION A - A'



TRAFFORD ROAD
SECTION B - B'



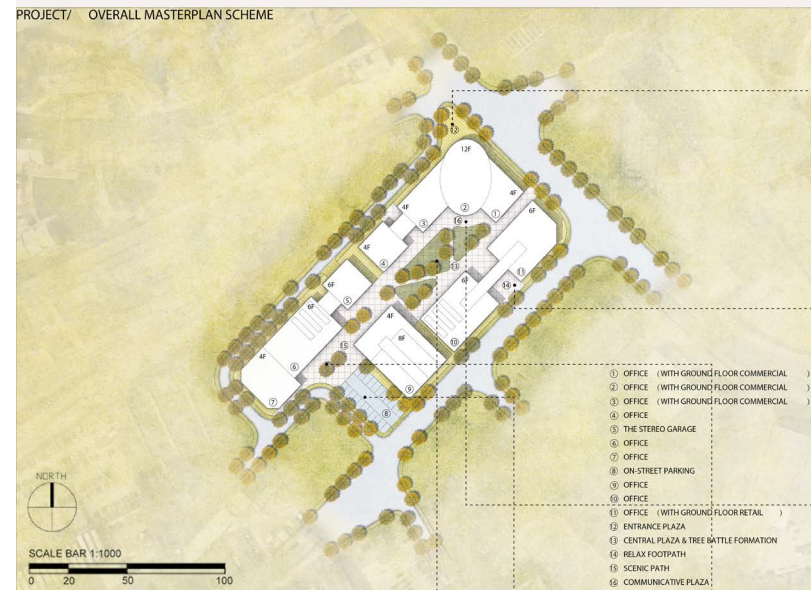
PERMEABILITY





CHING-JUNG CHEN
Piccadilly Basin

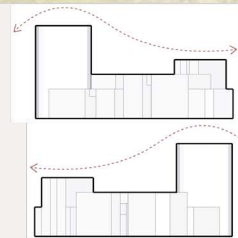
PROJECT/ OVERALL MASTERPLAN SCHEME



PROJECT/ SKYLINE

FROM THE NORTHWEST DIRECTION

FROM THE SOUTHEAST DIRECTION



ON-STREET PARKING



SCENIC PATH



CENTRAL PLAZA & TREE BATTLE FORMATION



RELAX FOOTPATH



COMMUNICATIVE PLAZA



ENTRANCE PLAZA

PROJECT/ PATH



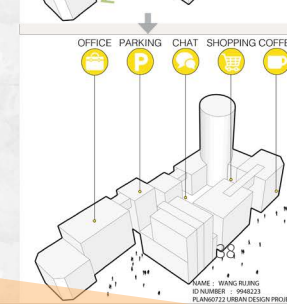
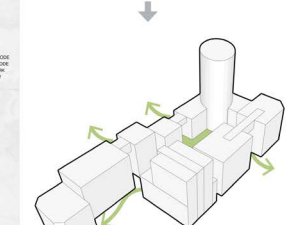
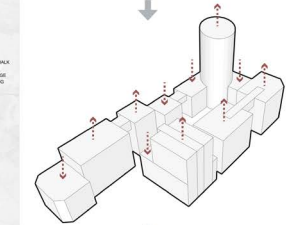
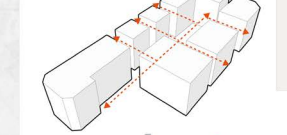
PROJECT/ NODE & LANDMARK



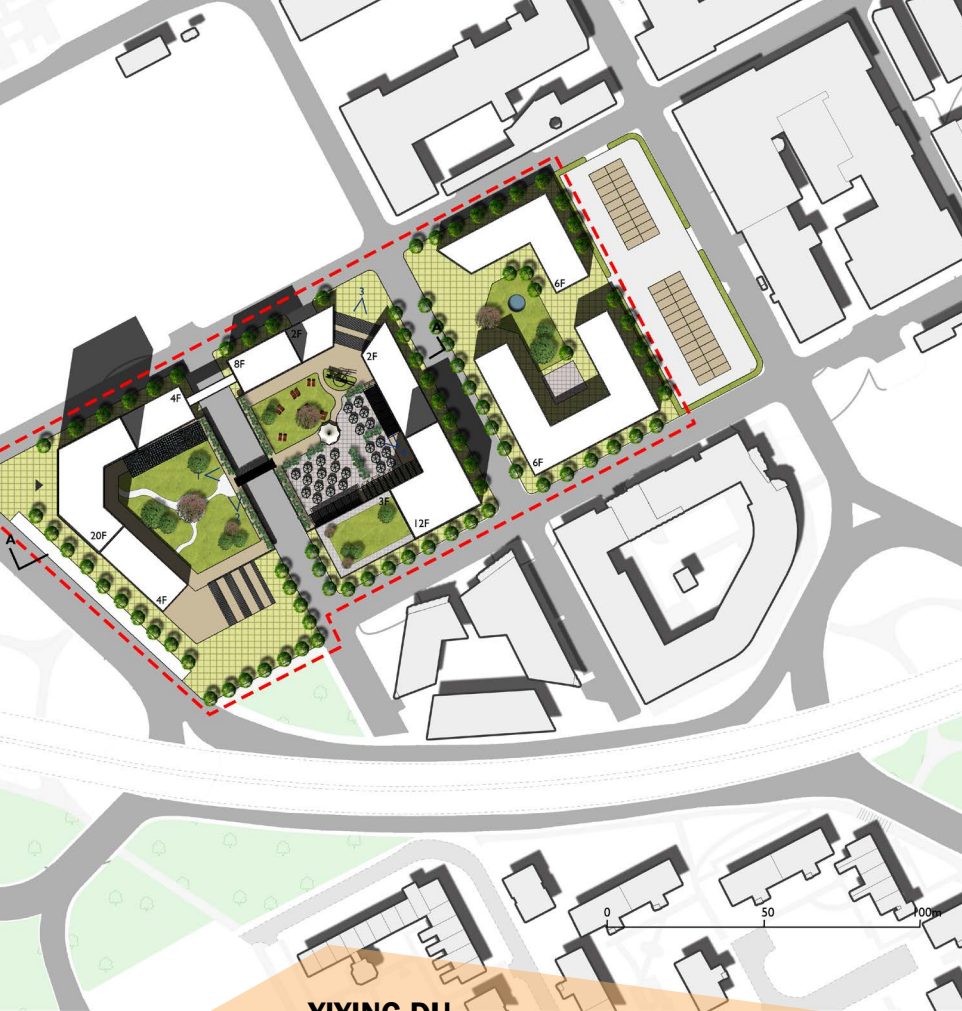
PROJECT/ OPEN SPACE



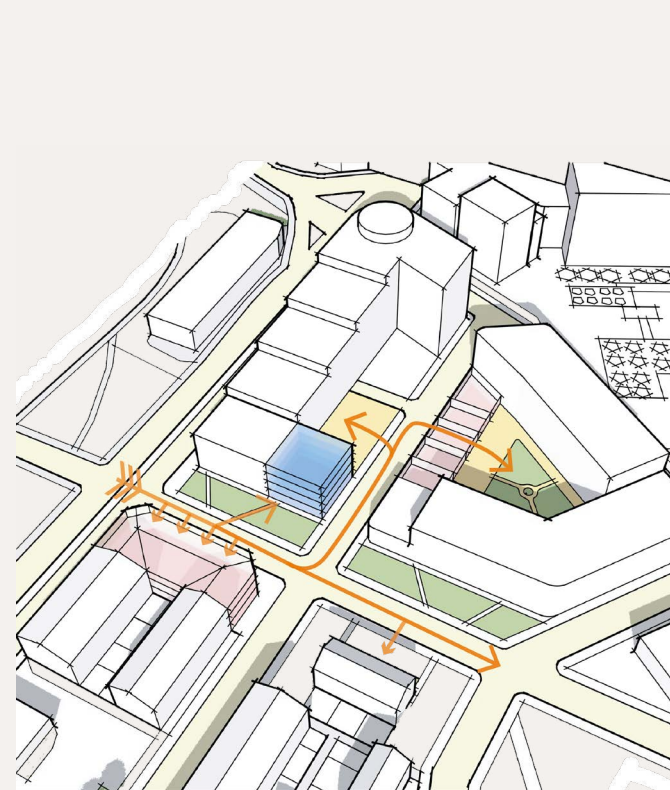
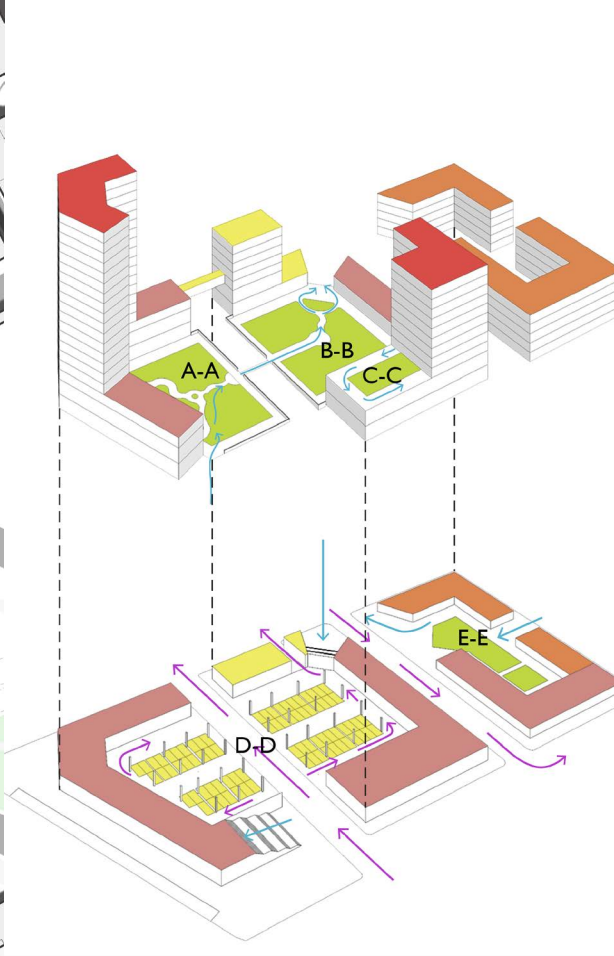
PROJECT/ GROUND FLOOR LAND USES & ACTIVE FRONTAGE



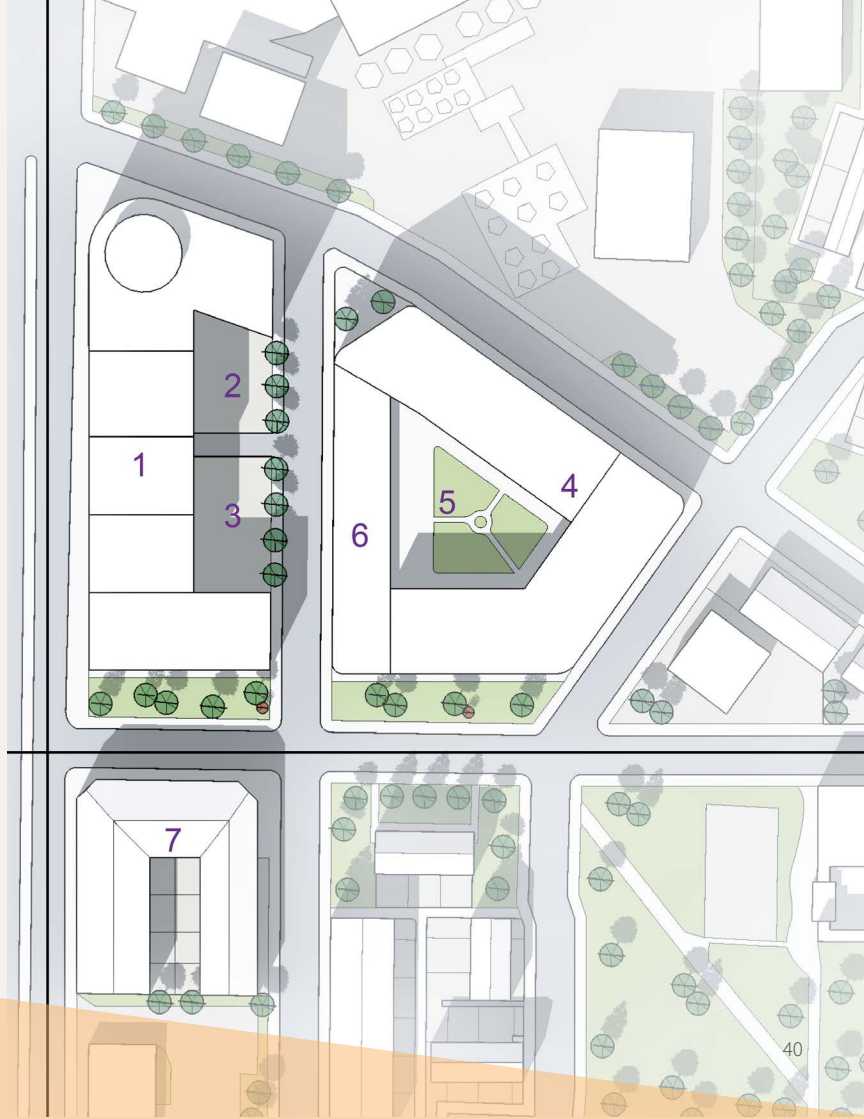
RUJING WANG
Northern Quarter, Manchester



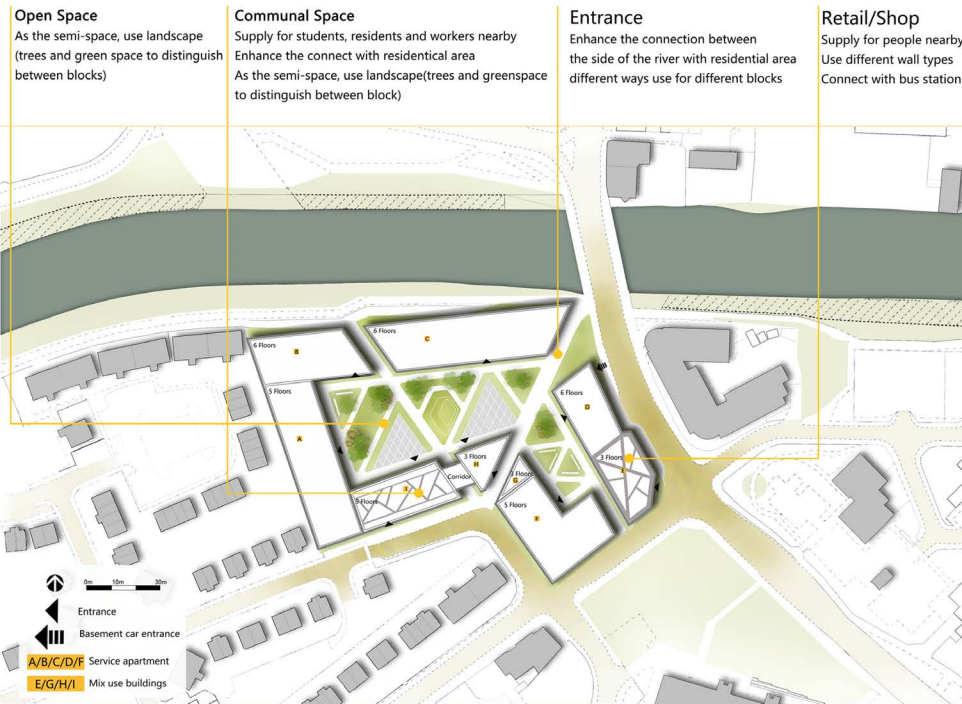
YIYING DU
First Street South, Manchester



MEIQI LIU
Moss Side Gateway, Manchester

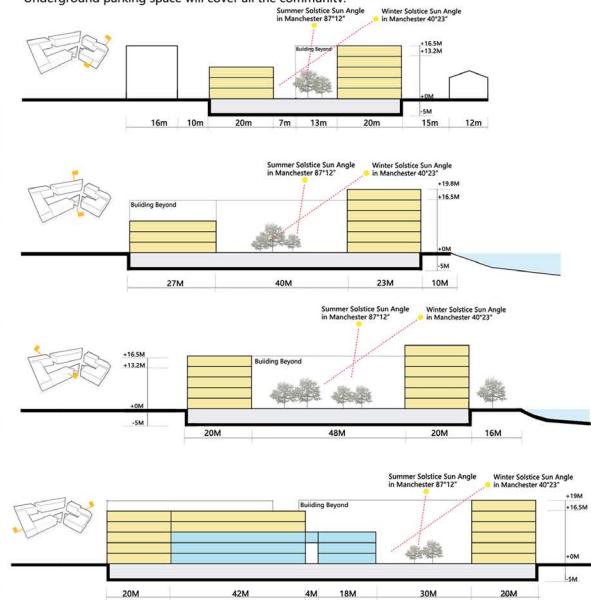


Masterplan



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' foundation, service apartments will only 3 floors to meet people's need.
- Underground parking space will cover all the community.



XIAOXIAO XU
First Street South, Manchester

PARK VIEW 3



1-1 section

Scale 1:1000

0 10 20 30 40 50 60 70 80 90 100 m

2-2 section

Scale 1:1000

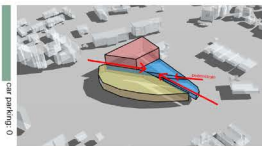
0 10 20 30 40 50 60 70 80 90 100 m



Phasing: Planned to thrive

The first part of th site
-Attract people from the outside to inside with 3 main entrances around the site and separe the building to three parts with different building functions.

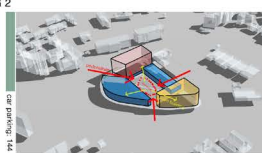
PHASING 1
car parking: 0
office: 28,000
hotel: 16,000
business: 17,000



The three main entrances of this part converged at one point. Opening this point to a commercial area with different landscape and play ground.

With some retails, restaurant, gym and shops around this commercial place to enhance active frontages.

PHASING 2
car parking: 44
office: 8,000
hotel: 10,000
business: 11,000



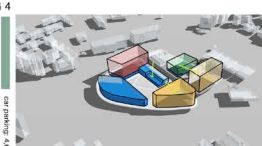
The second part
Build an office and a car park building to attract more people here and save the ground car parking area.

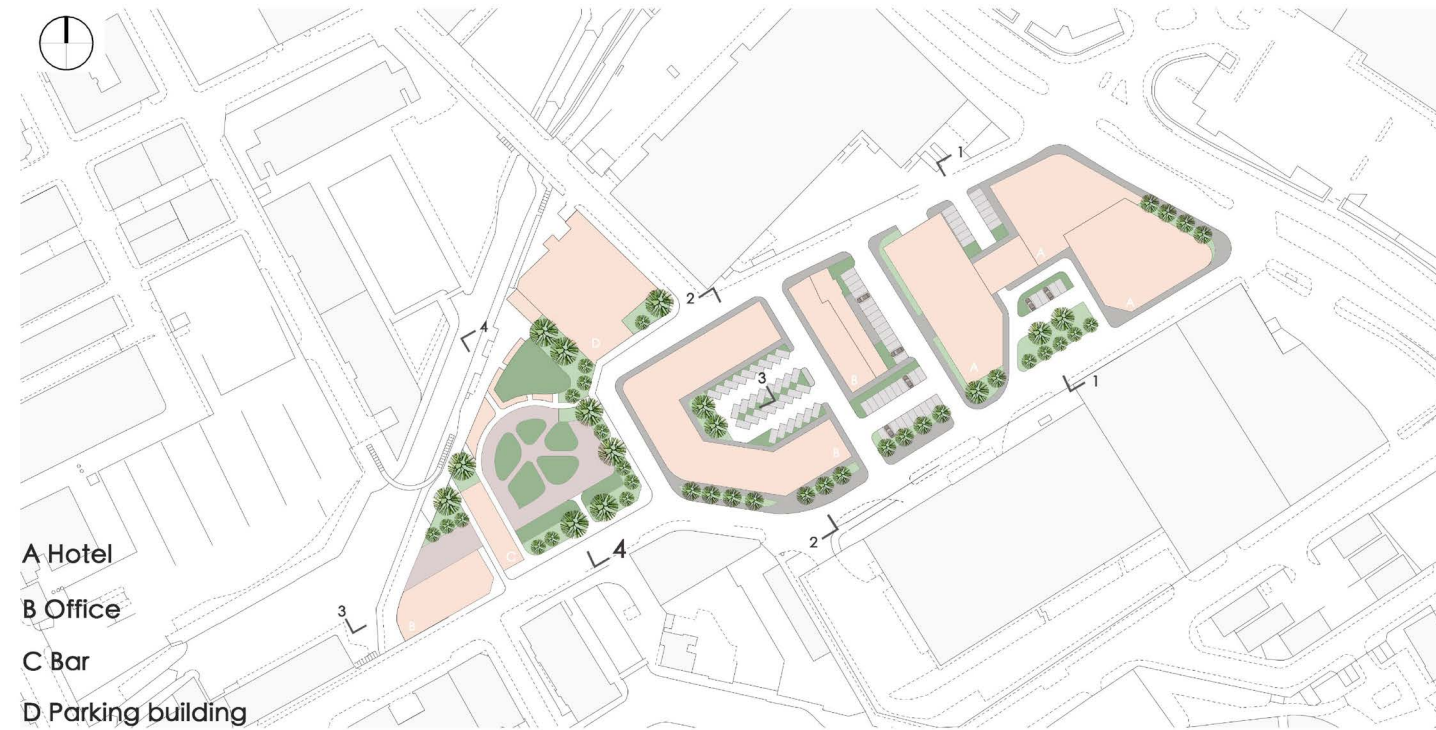
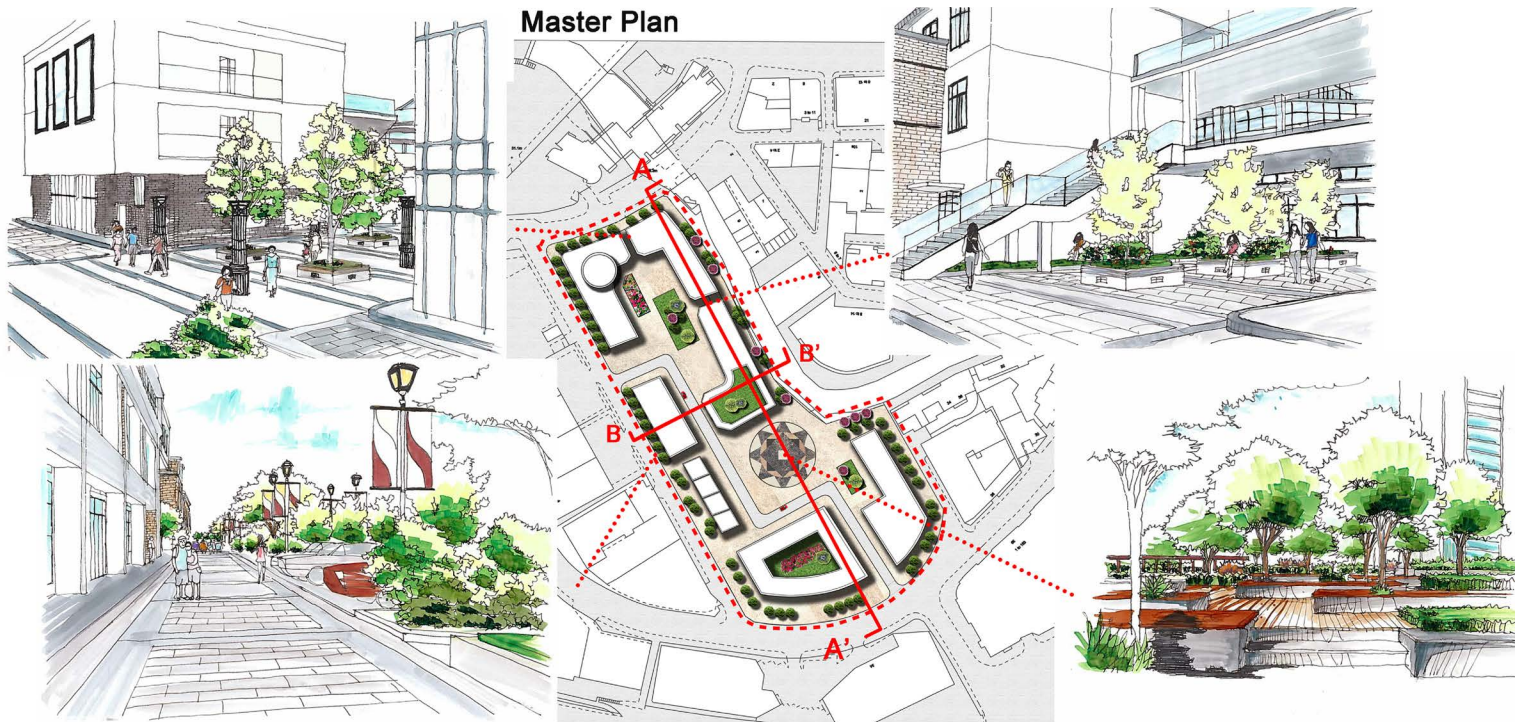
PHASING 3
car parking: 1,024
office: 21,000
hotel: 10,000
business: 12,000



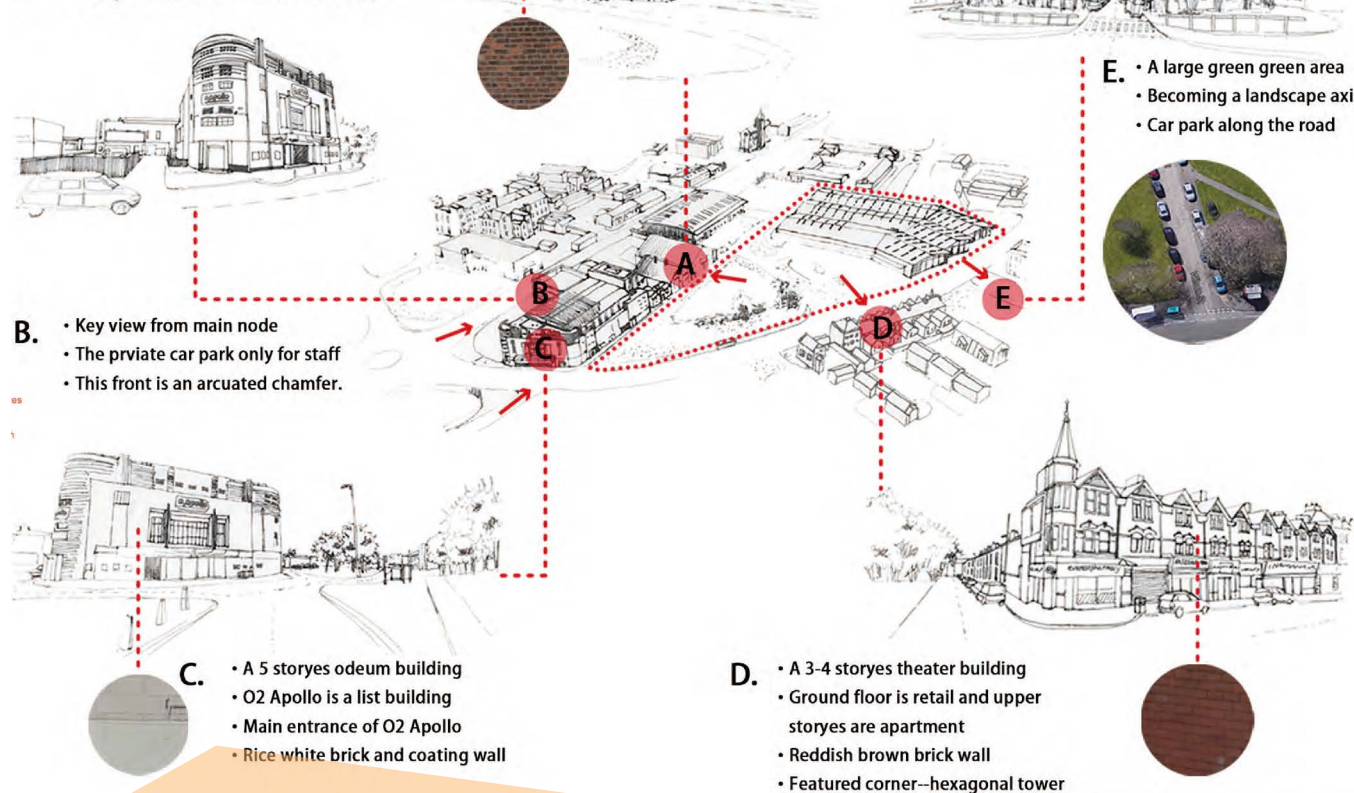
In order to connection the two parts with pedestrian line and view, open the connection point into a small park.

PHASING 4
car parking: 4,024
office: 10,000
hotel: 10,000
business: 10,000





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



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

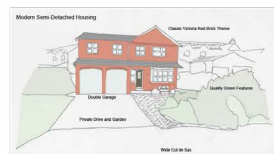
A perspective view down Station Road



1970s Municipal Housing Stock



Early 1900s Terraced Housing

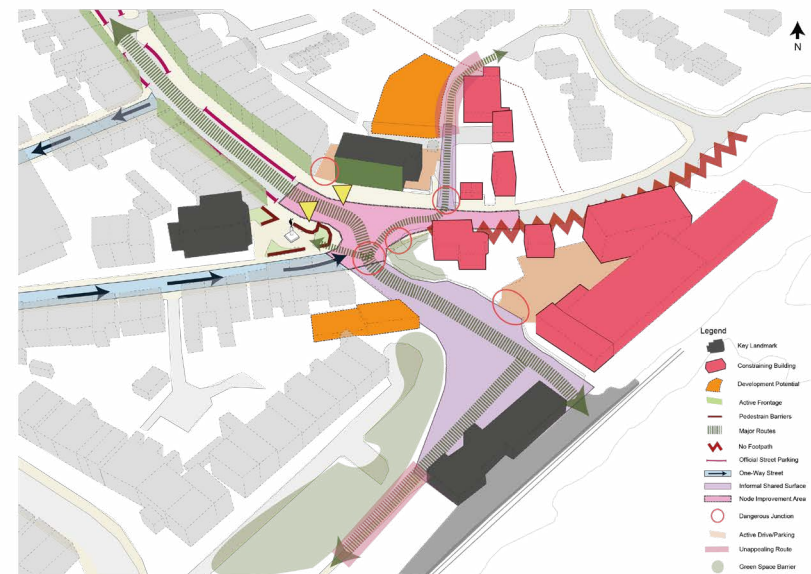
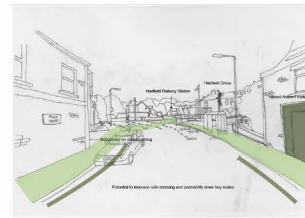


Opportunities and Constraints

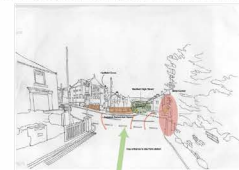
Opportunities

- 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



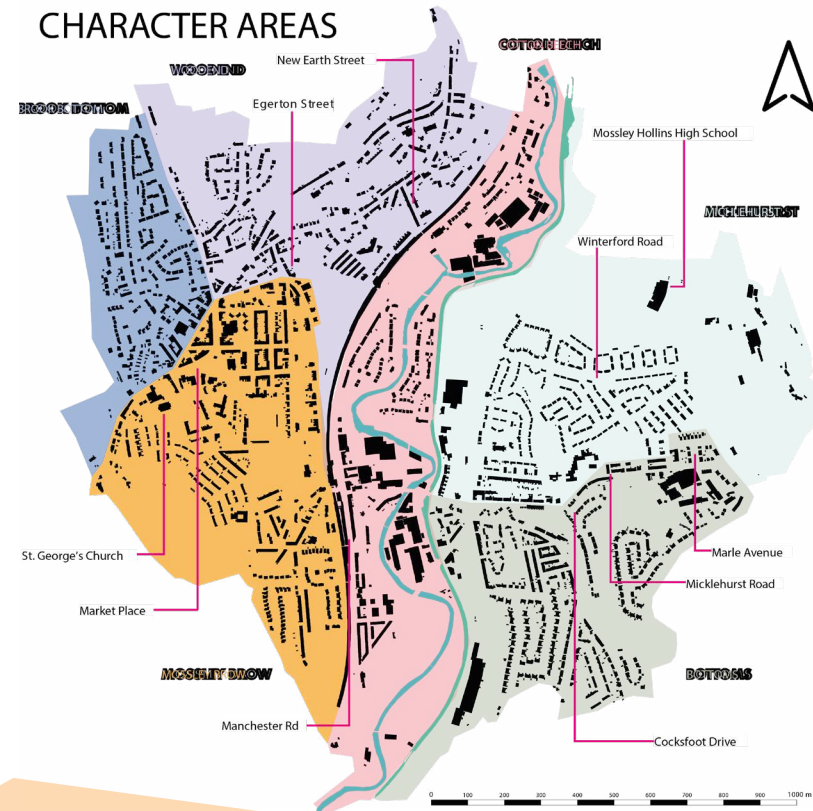
Annotation of the enclosed route to Pennine



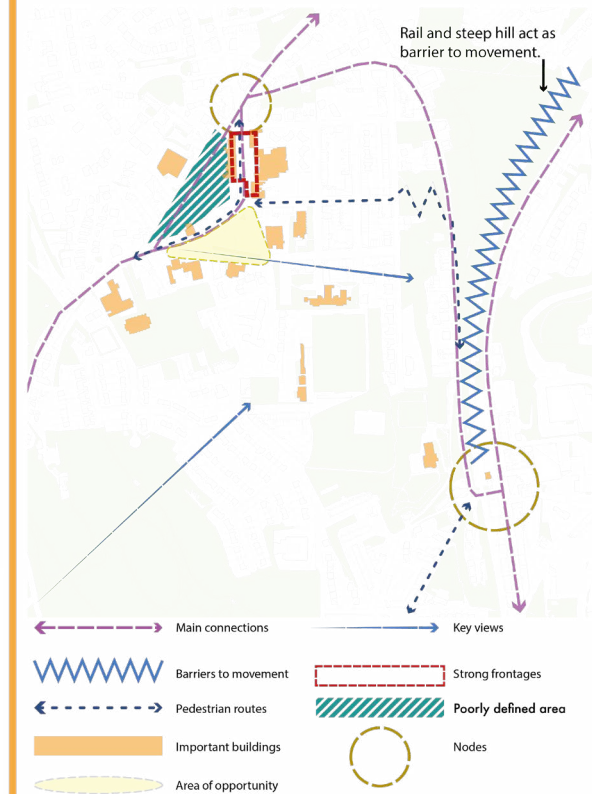
Constraints

- 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
- Barriers of public realm are part of a historic and sensitive design
- Relocation of station car park and other occupants

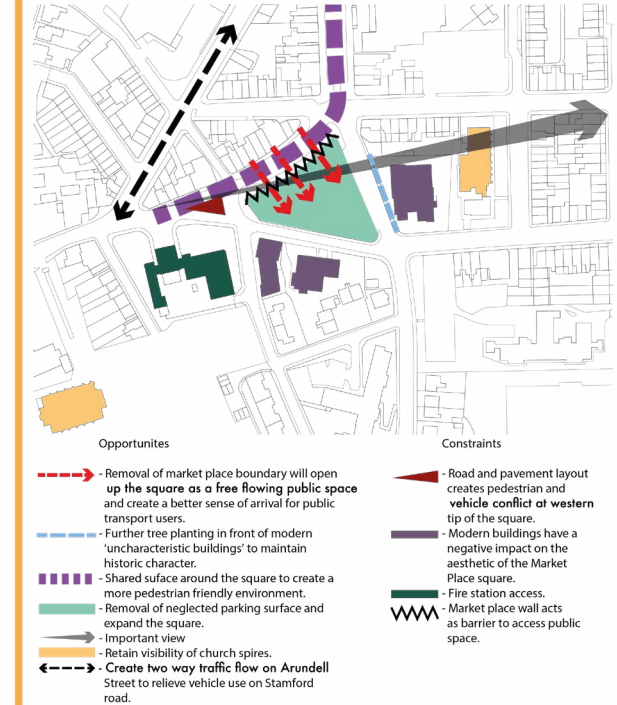
CHARACTER AREAS

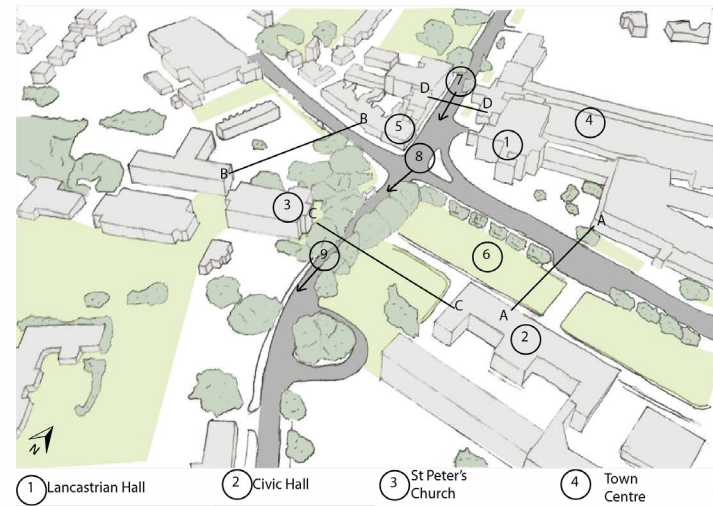


CONTEXTUAL APPRAISAL



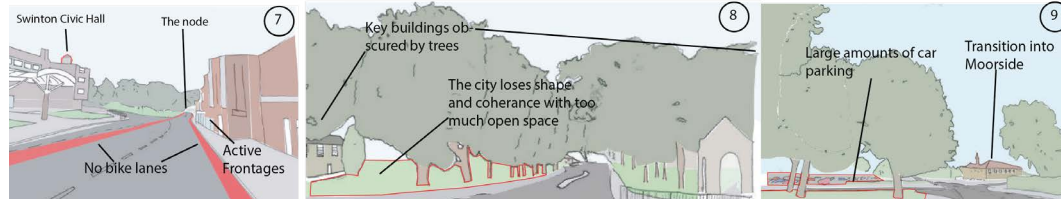
OPPORTUNITIES / CONSTRAINTS





The Station Road - Partington Road - A6 Junction

- Buildings
- Green space
- Trees
- Roads

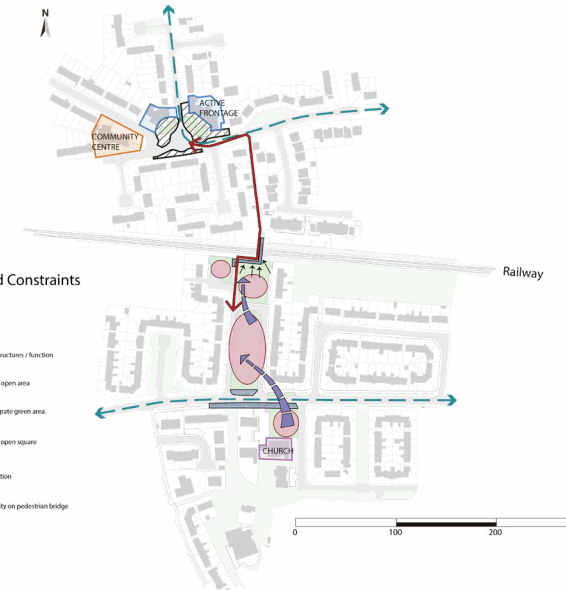


Character Area



Opportunities and Constraints

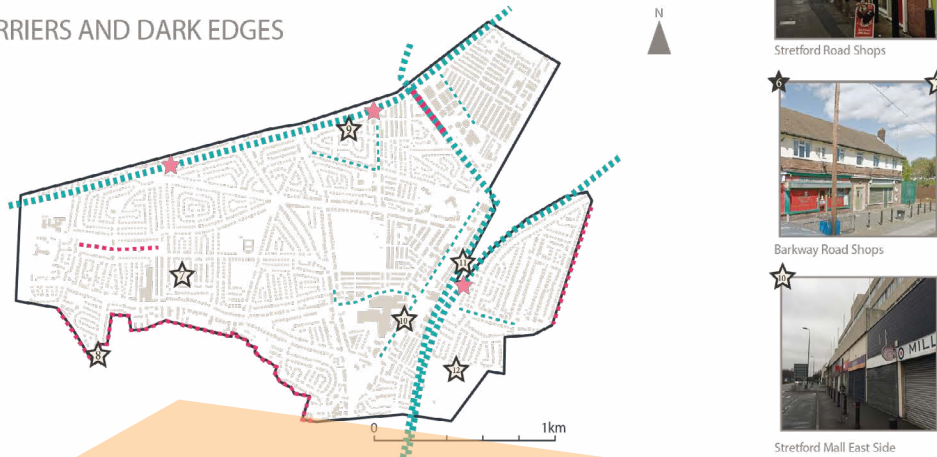
- Improve existing structures / function
- Recreate potential open area
- Enhance and integrate green area
- Optimize potential open square
- Enhance the connection
- Enhance the visibility on pedestrian bridge
- Bus route



ACTIVE FRONTAGE



BARRIERS AND DARK EDGES



Stretford Mall Entrance



Gorse Hill Industrial Estate



Stretford Road Shops



Moss Road Shops



Route to Stretford Station



Barkway Road Shops



Newcroft Nurseries



Lakes Estate Garden



Stretford Mall East Side



Back of Workers houses



Stretford Cemetery

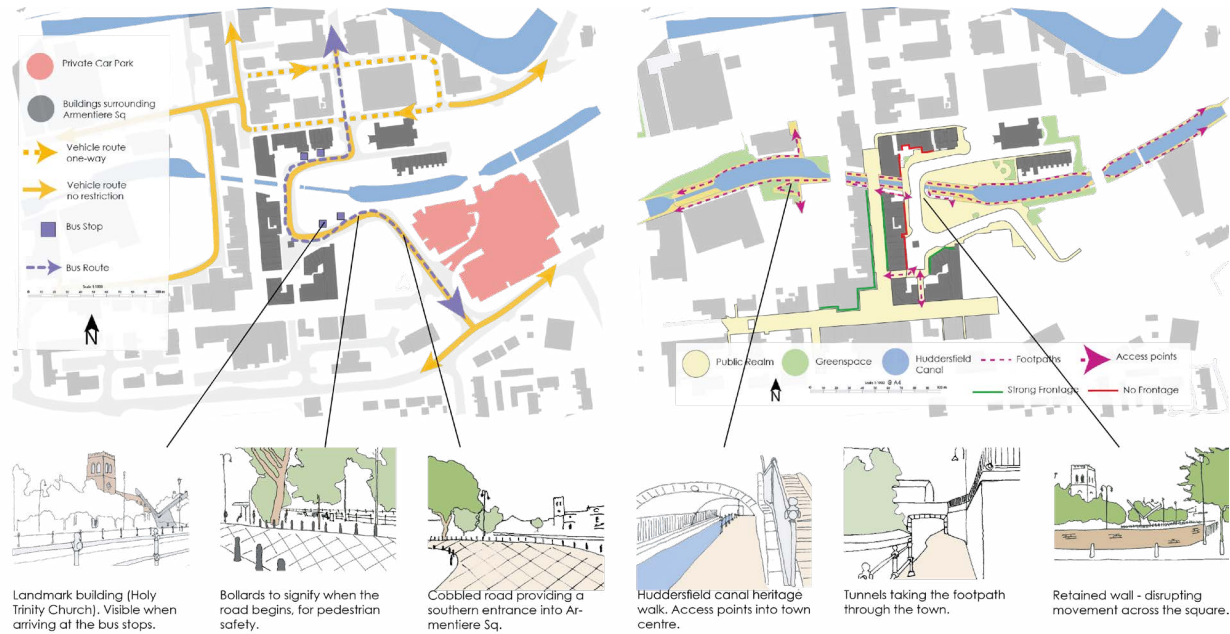


KATARINA ZULVER
Droylsden Neighbourhood Analysis

SHANNON HENRY
Stretford Baseline Analysis

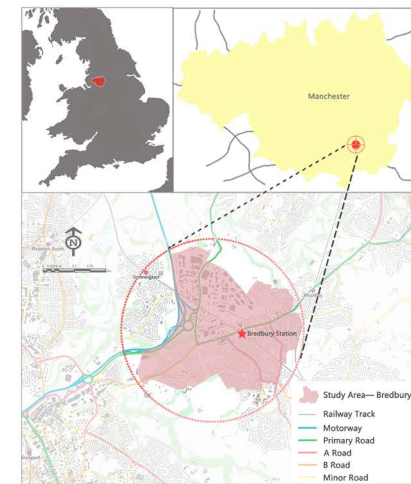
THOMAS ROYLES

Droylsden Neighbourhood Analysis



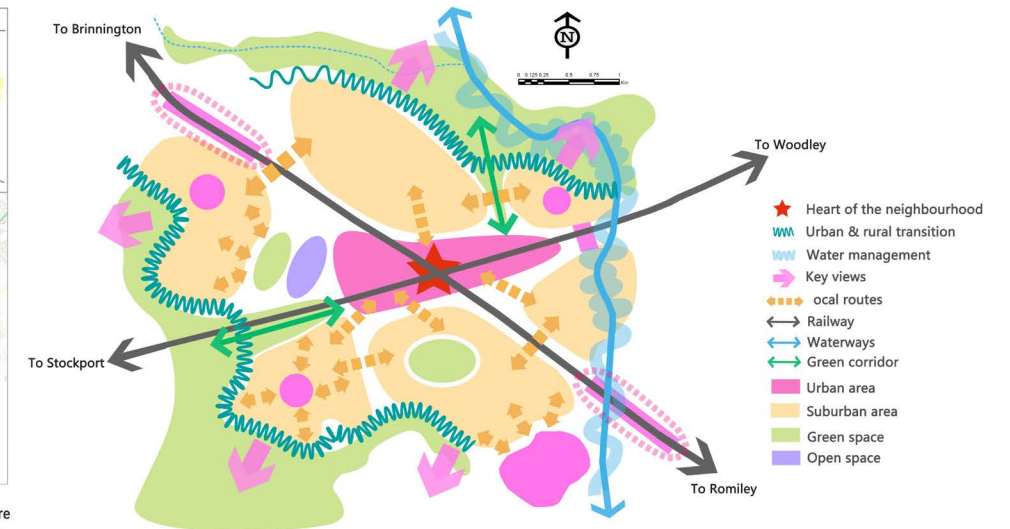
- The modal shift from public transport, vehicle routes and pedestrian public realm along with the canal creates a fragmented structure.
- Shared surfaces aid in mitigating the fragmented structure however the canal bridge creates a chokepoint where both vehicles and pedestrians must cross at close quarters.
- This decreases permeability in the square.
- However key buildings (church) and landmark art structures improve legibility.

Location



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.

Indicative Development Status



ZHICHAO WANG

Bredbury Neighbourhood Analysis



DESIGN DISSERTATIONS

Image by: Joseph Greaves

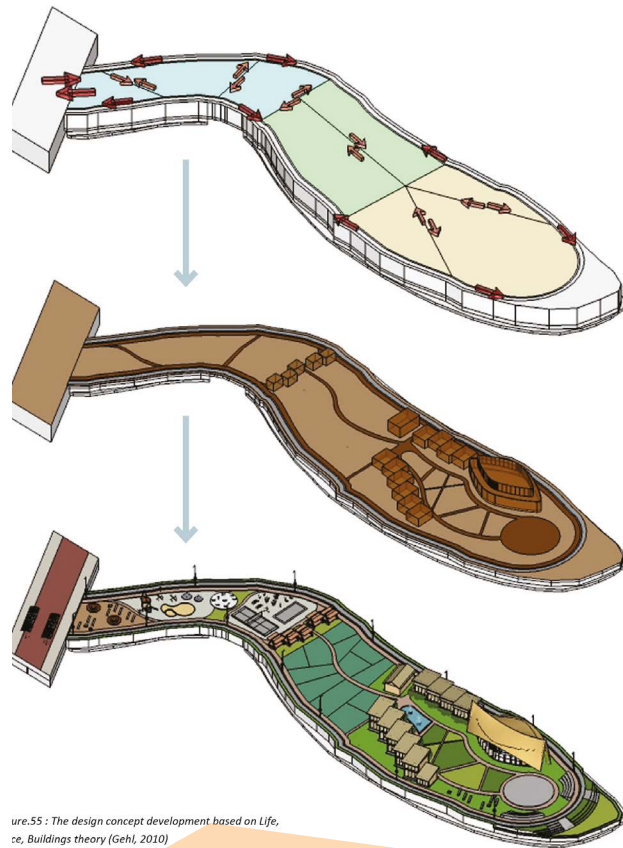


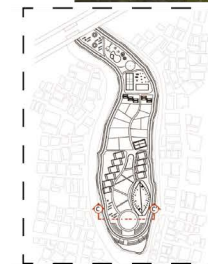
Figure 55: The design concept development based on Life, Buildings theory (Gehl, 2010)
Source: Author

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

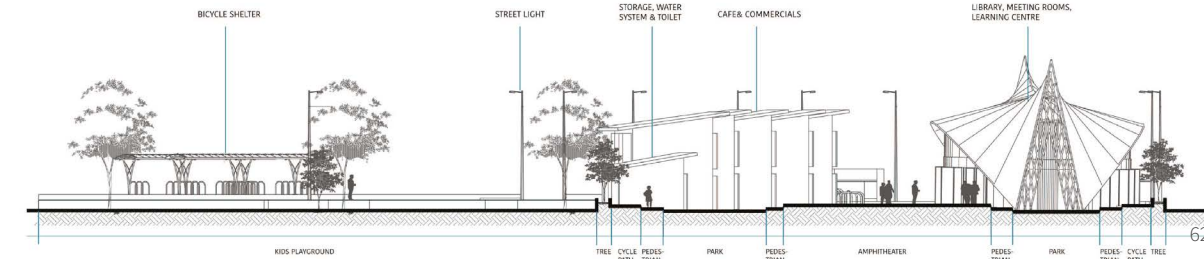
Supervisor: Dr. Philip Black

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 disorganised location providing valuable local amenity and seeking to act as a catalyst for future development.



(Figure 60: Map and Sections C-C'
Source: Author)



History

Keep fishing activities (tradition) next to the selected waterfront site

Compared with previous proposals for 'La Poza', this one utilises just the 30% of the total area for buildings, the remaining areas are open spaces.

Compared with previous proposals, the height of the buildings does not overpass 15 storeys, avoiding a drastic contrast with the surrounding context

Pacific ocean

Manta river

Proposed vehicular access: access to car parking (commercial/offices building)

Public access to waterfront areas

Access to the sea during low tide

Proposed vehicular access: access to underground car parking (residential/offices zone)

additional pedestrian access through new elevated walkway

Public car parking

Integrate existing bikeway to the new project

Accessibility

Figure 108. Design guidelines applied to the site: history and accessibility
Source: Author

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.

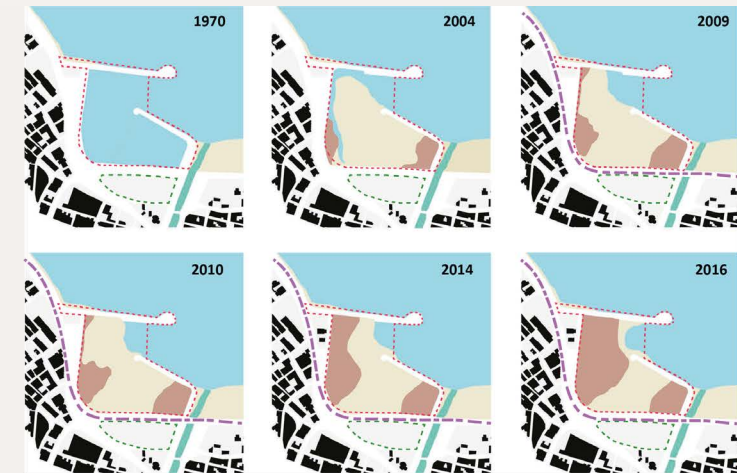


Figure 68. La Poza's historical evolution. The area that was originally occupied by the water nowadays constitutes a large waterfront land, generated by sedimentation and landfills. The images highlight the Via Puerto-Aeropuerto road, that appears since 2009 when this section of the road was completed. As illustrated, there is a vacant plot next to the selected site, which is also municipal property.

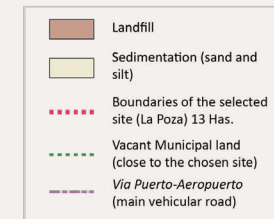


Figure 69. Old picture of Manta that illustrates the original function of La Poza as artisanal port (around 1930).

Figure 70. La Poza's situation in 2016 (nowadays). The image shows the abandoned port structures and the sedimentation within the site.

Concepts

Lever Street
Oldham Street
Pedestrianisation



Pedestrianisation will allow for better continuity through this space

The connection between Oldham Street and Lever Street (see graphic right) is proposed to be pedestrianised in order to open the movement corridor route to Market Street from Manchester Piccadilly Station. This area is vastly bus dominant, and is fragmented in its continuity (as highlighted in the urban analysis). Creating a pedestrian only route will heighten a sense of arrival into Piccadilly Gardens from the station and increase legibility due to the direct route into the space.

View Point



New Bus Route
Pedestrianised Route



Redesigning Piccadilly Gardens, Manchester
Creating a Memorable and Functional Space

Supervisor: Dr. Philip Black

This design dissertation tackled the complex and contested site - Piccadilly Gardens, Manchester. The research explored how successful the current re-design of Piccadilly Gardens was through extensive urban design analysis and accompanying local user questionnaire to understand both how people use the space and perceive the spaces positives and negatives.

The proposed new design attempts to enhance Piccadilly Gardens' dual movement and public spaces uses, whilst encouraging a welcoming and memorable environment. The intervention seeks to balance the sites need to be a movement transit-hub for the city, whilst also being a quality public space.



3D PHYSICAL MODELS

Urban Design Studio: Thinking in 3D

B.15 MODELMAKING WORKSHOP

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.

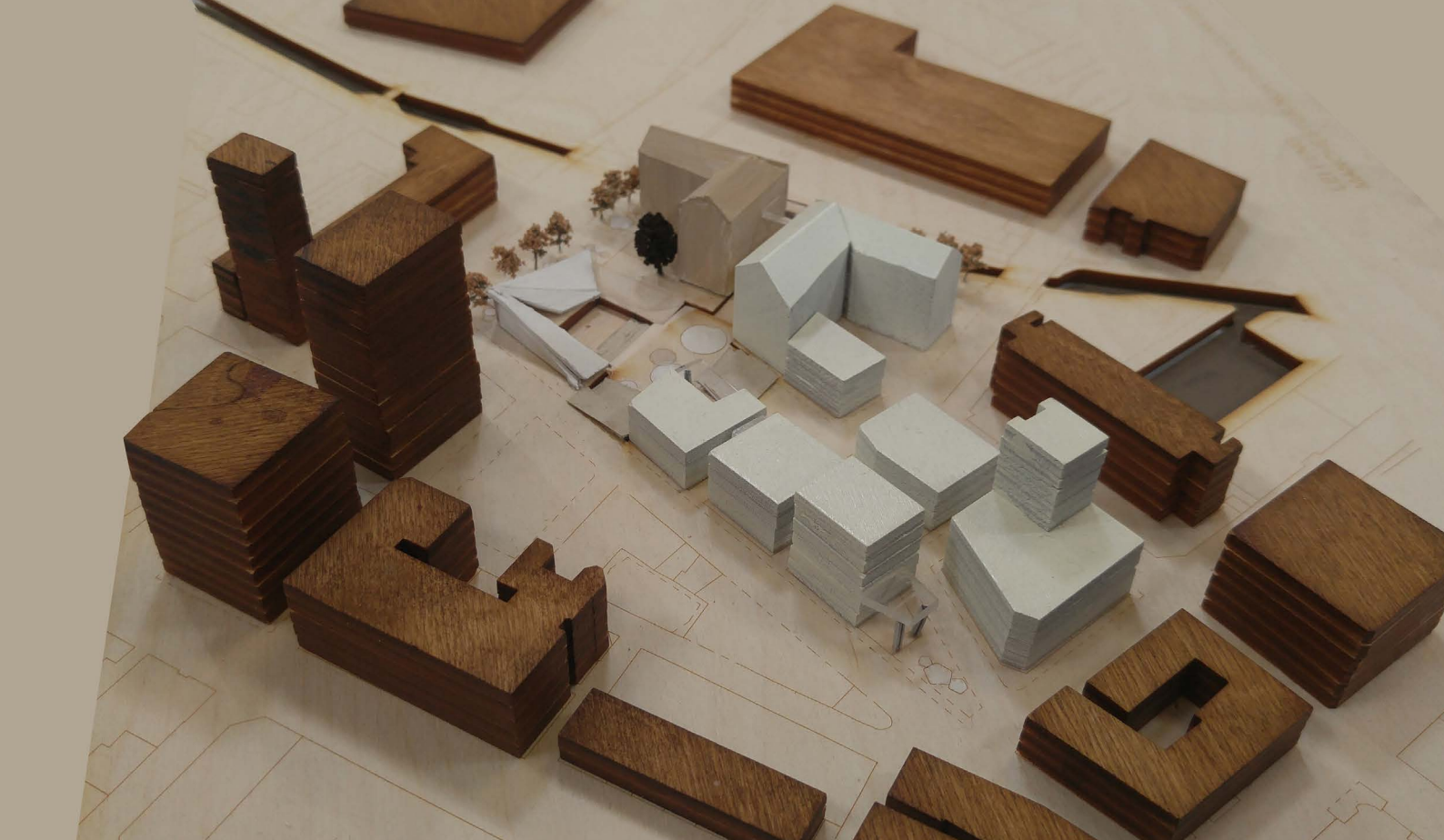
B.15 WORKSHOP STAFF

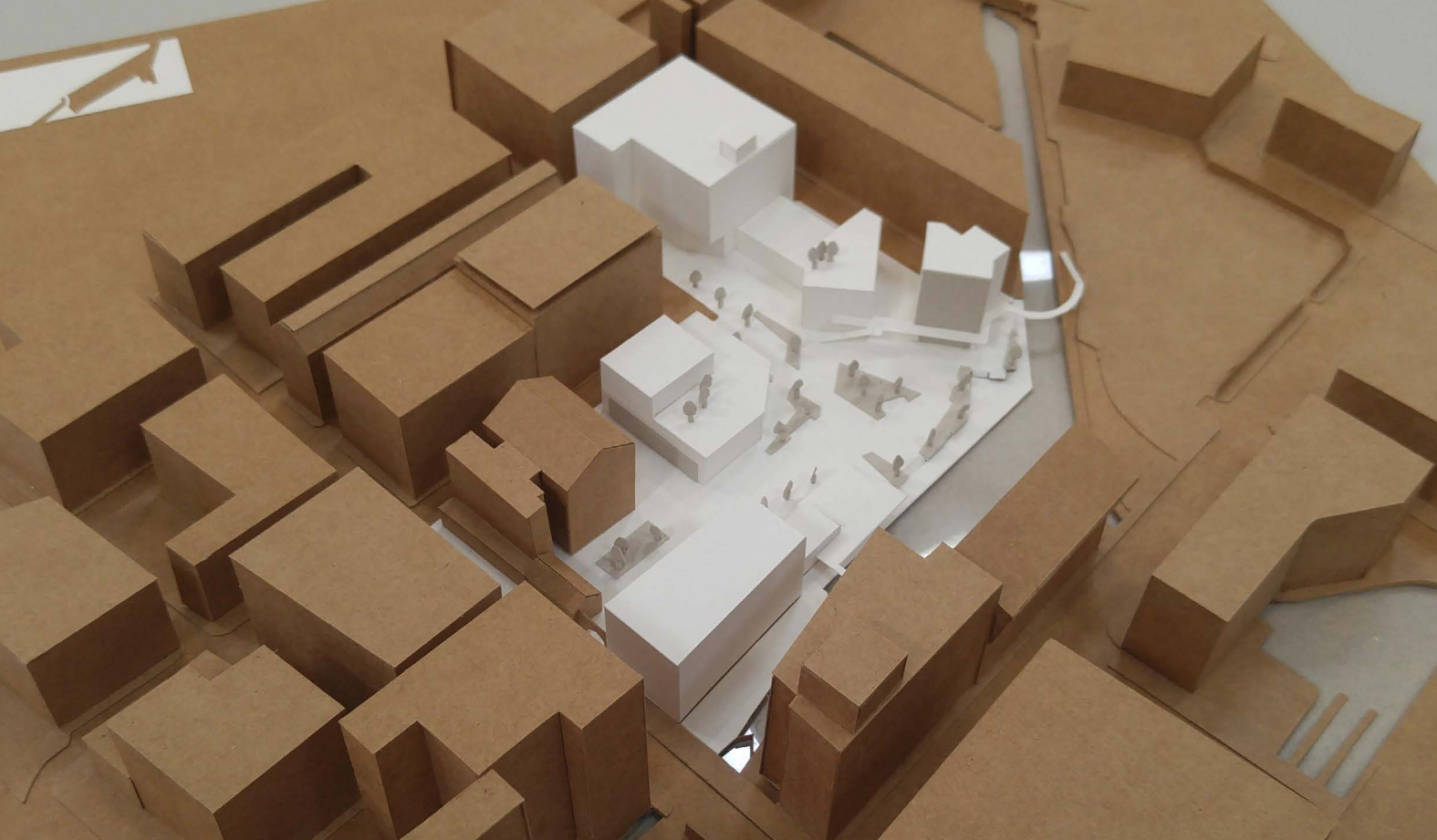
Senior Technician

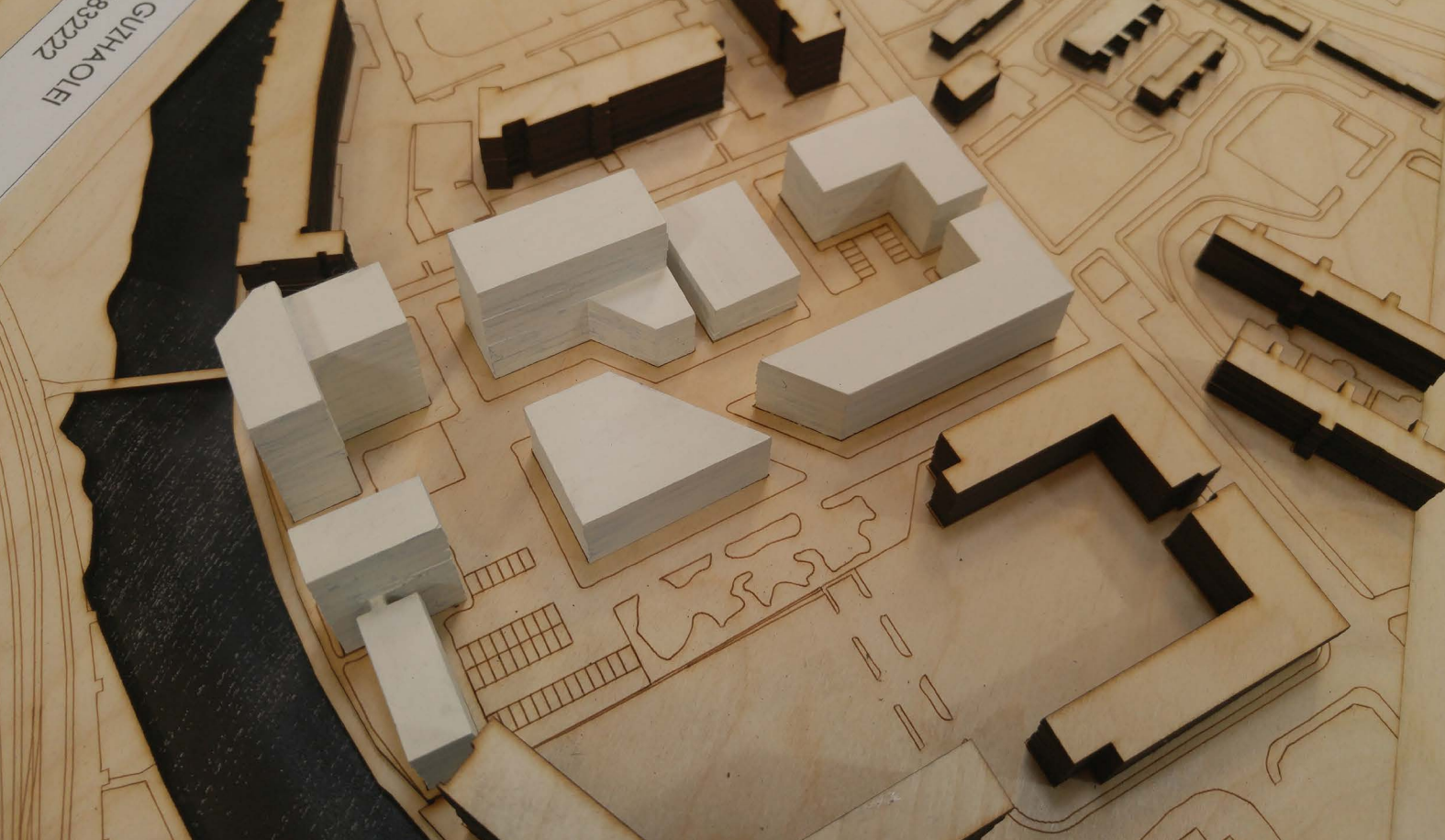
Jim Blackhouse

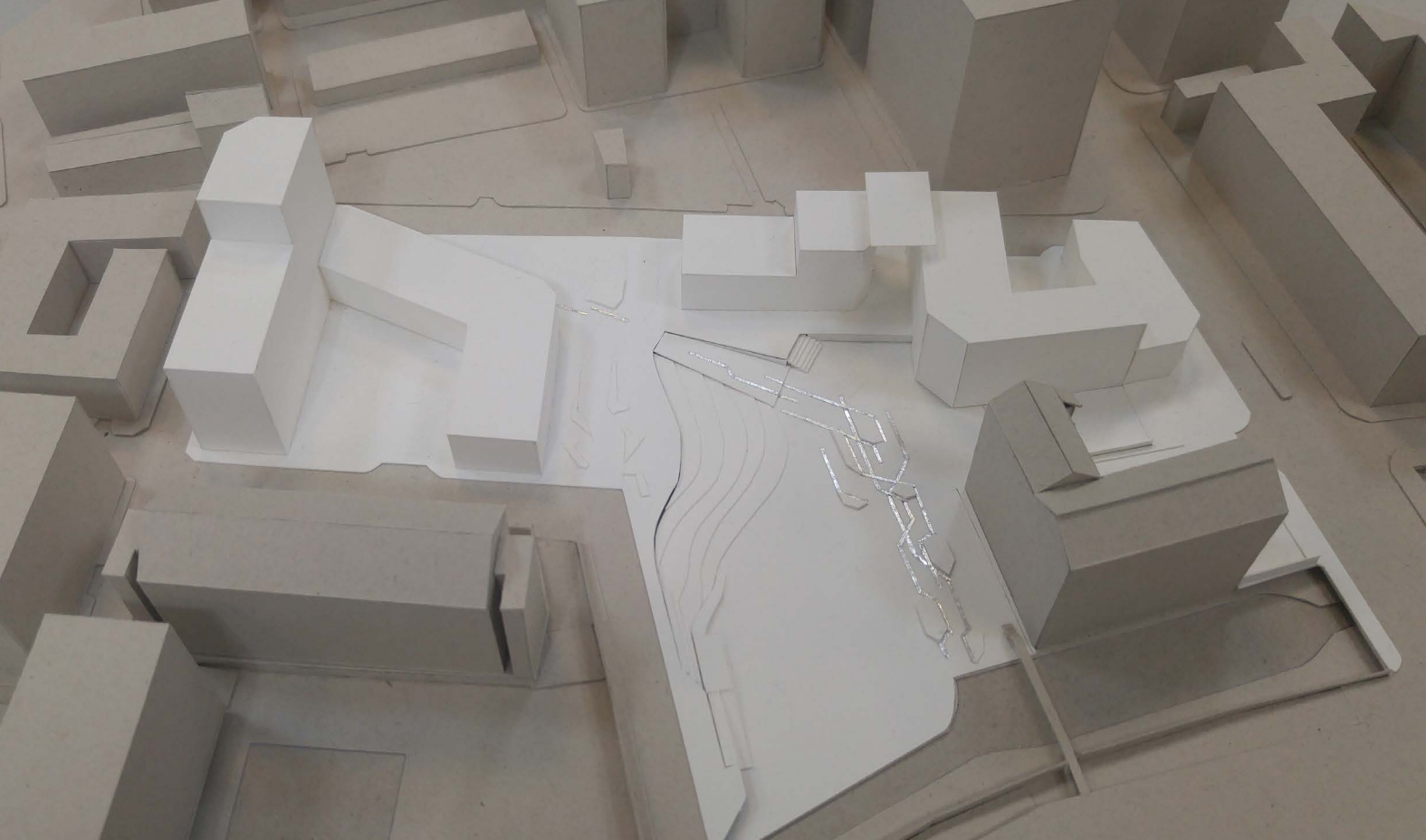
Technician

Scott Miller











URBAN DESIGN



The University of Manchester

URBAN DESIGN