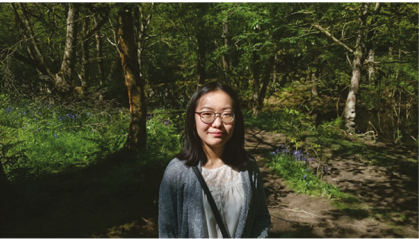


LANDSCAPE ARCHITECTURE
PORTFOLIO



MINGYI
LI



MINGYI LI

March 15, 1995
mli44@sheffield.ac.uk

This portfolio contains a sampling of my work completed during my second year in the University of Sheffield studying Landscape Architecture as an undergraduate student and my work completed during my study at Chiba University in Japan as an exchange student. I was born and raised up in the city, and I spent most of my childhood in those small local green spaces between residential buildings. My passionate to greenery, nature, and the city has been seeded in my heart since I was a child. Being able to spend my childhood within man-made nature made me realize how important green spaces are for human beings, especially for city residents. My objective as a landscape architect has always been focused on creating beautiful and sustainable spaces which will be beneficial for all the lives of those who use them.

ACADEMIC BACKGROUND

2013-2016	BA/ Landscape Architecture, The University of Sheffield Currently achieving a solid 2:1
2012-2013	International Foundation Year (Business) Business Studies ----- A Economics ----- A Maths ----- A+

WORK EXPERIENCE

NIKKEN SEKKEI
Worked as a landscape architect assistant; helped senior landscape architects illustrate design concepts, develop concept design, and create physical and digital models.
Create Illustrative Graphics / Develop Concept Design / Create physical and digital models / Research

VOLUNTARY WORK EXPERIENCE

Sheffield Manor Top Community
Joined a community based landscape programme. Worked as part of the community to transform a waste land into a multifunctional community garden.
Shrub pruning / Teamwork / Painting / Weeding / Basic Plant Identification

Holly Hagg Farm
Worked for a community garden with particular interests on providing beautiful and enjoyable environment for both wildlife and local residents.
Shrub pruning / Weeding / Soil Maintenance / Basic Plant Identification / Fence Building / Animal Care

Whinfell Quarry Garden
Worked as part of the volunteer team to restore the Rock Garden name "Little Quarry".
Rock and Soil Moving / Teamwork

Sheffield Sharrow School
Worked on a green roof project at the maintenance stage; improved the green roof condition for future development
Basic Plant Identification / Weeding / Substrates Maintenance

Sunday Centre
Joined a Sunday lunch project which provides a safe, social space for homeless and other vulnerable people.
Food Preparation / Teamwork / Customer Service / Community engagement

SKILLS

Photoshop	●	●	●	●	●	●	○
AutoCAD	●	●	●	●	●	○	○
SketchUP	●	●	●	●	●	○	○
ArcGIS	●	●	●	○	○	○	○
Indesign	●	●	●	●	●	○	○
Illustrator	●	●	●	●	○	○	○
M. Office	●	●	●	●	●	○	○

CONTENTS

01		BALANCING AND TRANSFORMING	-----	3 - 4
combined project - Livesey Street				

02		CREATION AND MANAGEMENT	-----	5 - 6
ecological design - Livesey Street, Wardsend Cemetery				

03		ECOLOGICALLY TUNED, AESTHETICALLY AWARE	-----	7 - 14
planting design - Livesey Street, Hillsborough College Car Park				

04		EXPLORATION OF PUBLIC URBAN PLACE	-----	15 - 22
studio design & construction design - Sheffield Cultural Industries Quarter				

05		RENOVATION OF A VACANT HOUSE - JAPAN	-----	23 - 24
city planning and housing design - Matsudo, Japan				

BALANCING AND TRANSFORMING

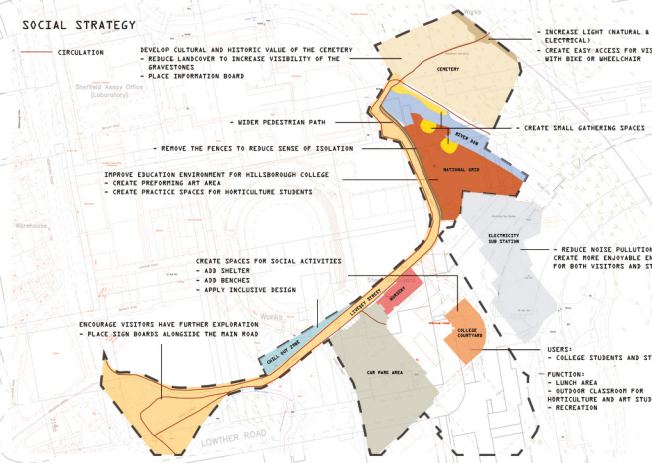
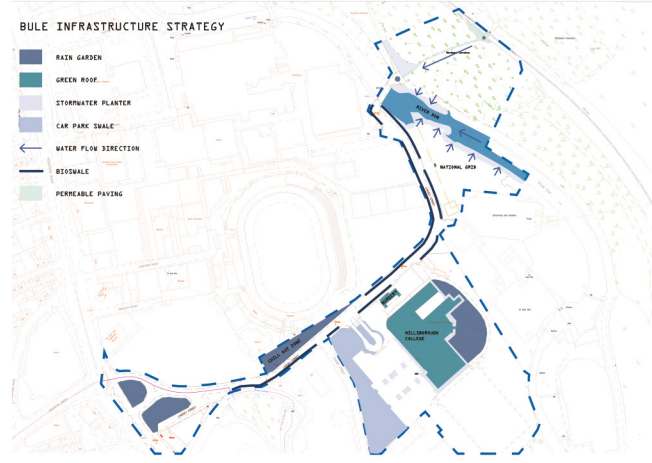
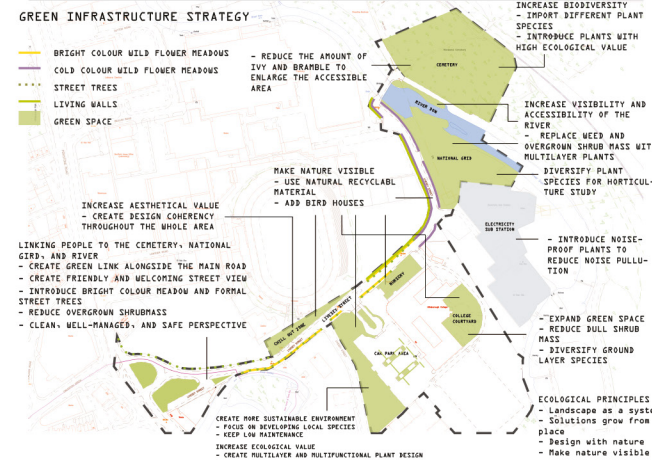
THE LIVESEY STREET PROJECT
Landscape Ecology 1: Ecological Processes, Design and Management; Materials of Landscape – Planting Design; Sustainable Communities

This site is located in the Hillsborough area of Sheffield, an industrial part of Sheffield. It was part of the important industrial corridor that followed the river through the heart of the city and then flowed out along the Lower Don Valley. However the area suffered during the economic decline in traditional industries of the 1980's and has lost out to the city centre in terms of more recent economic development. The area suffers from multiple issues such as poor image, poor setting for the local college, and lack a coherent identity. There are derelict plots that, although providing a valuable wildlife habitat, attract fly-tipping and contribute to the run-down feel. There is no social space for students and no apparent reason for local people to use the area.

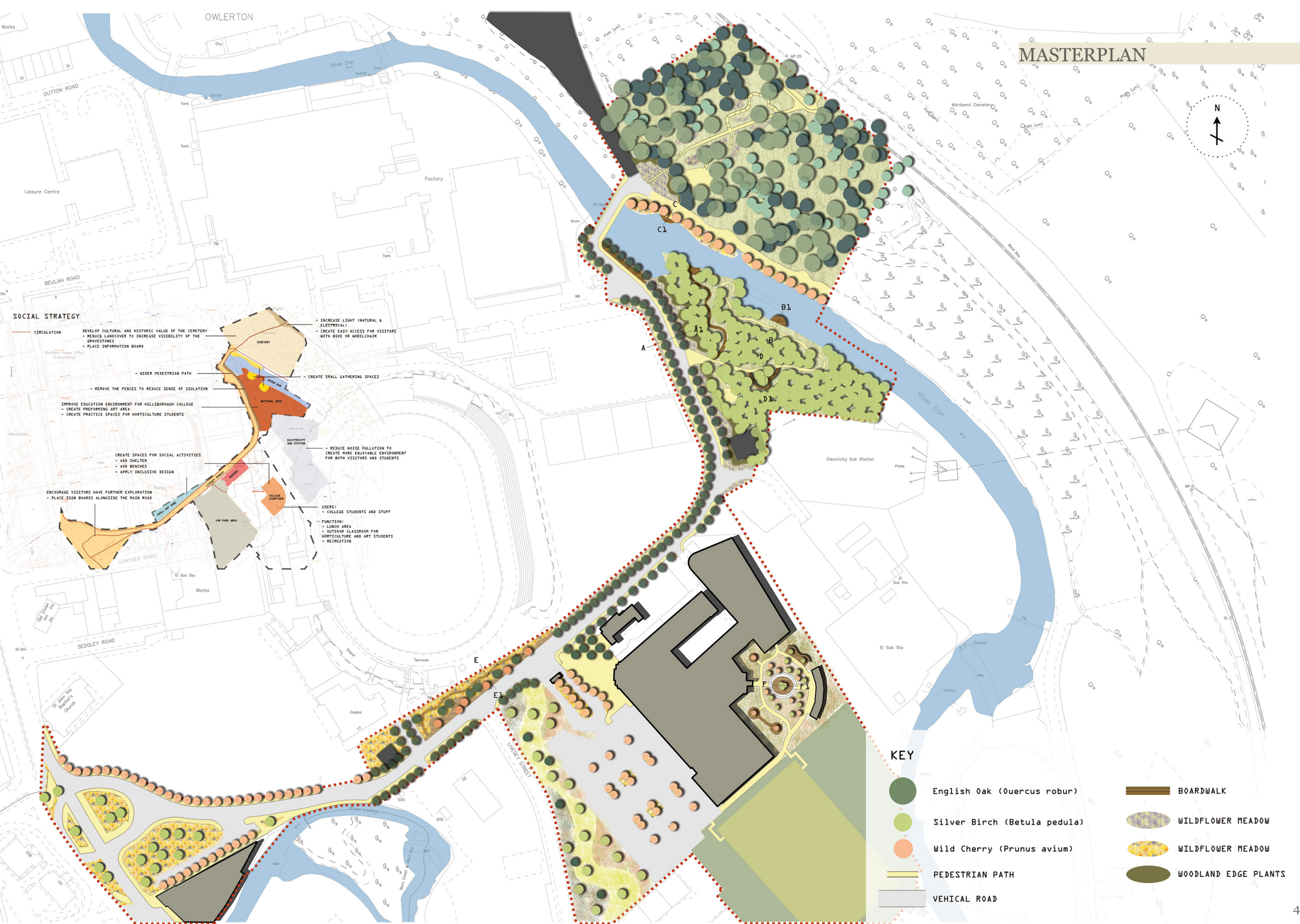
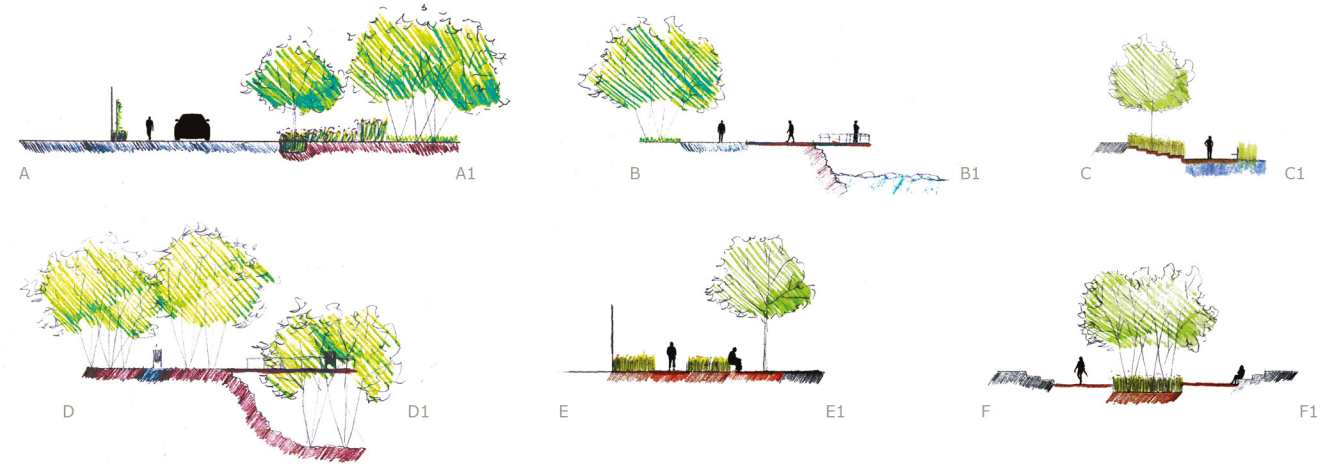
The design placed particular emphasis on balancing objectives and constraints for the site in order to satisfy multiple criteria. The design aims to transform the image of Livesey Street, bringing new uses and vibrancy to this neglected area, as well as creating aesthetic and ecological value. This project also required a degree of both verbal and visual communication skill in order to addressing the clients' needs and convincing the clients.

The proposed solution to Livesey Street was to create welcoming, safe, and beautiful image in order to attract visitors back to the once vibrant area. Social spaces and the existed natural elements were combined together to create visiting purpose for people with different social background.

DESIGN STRATEGIES



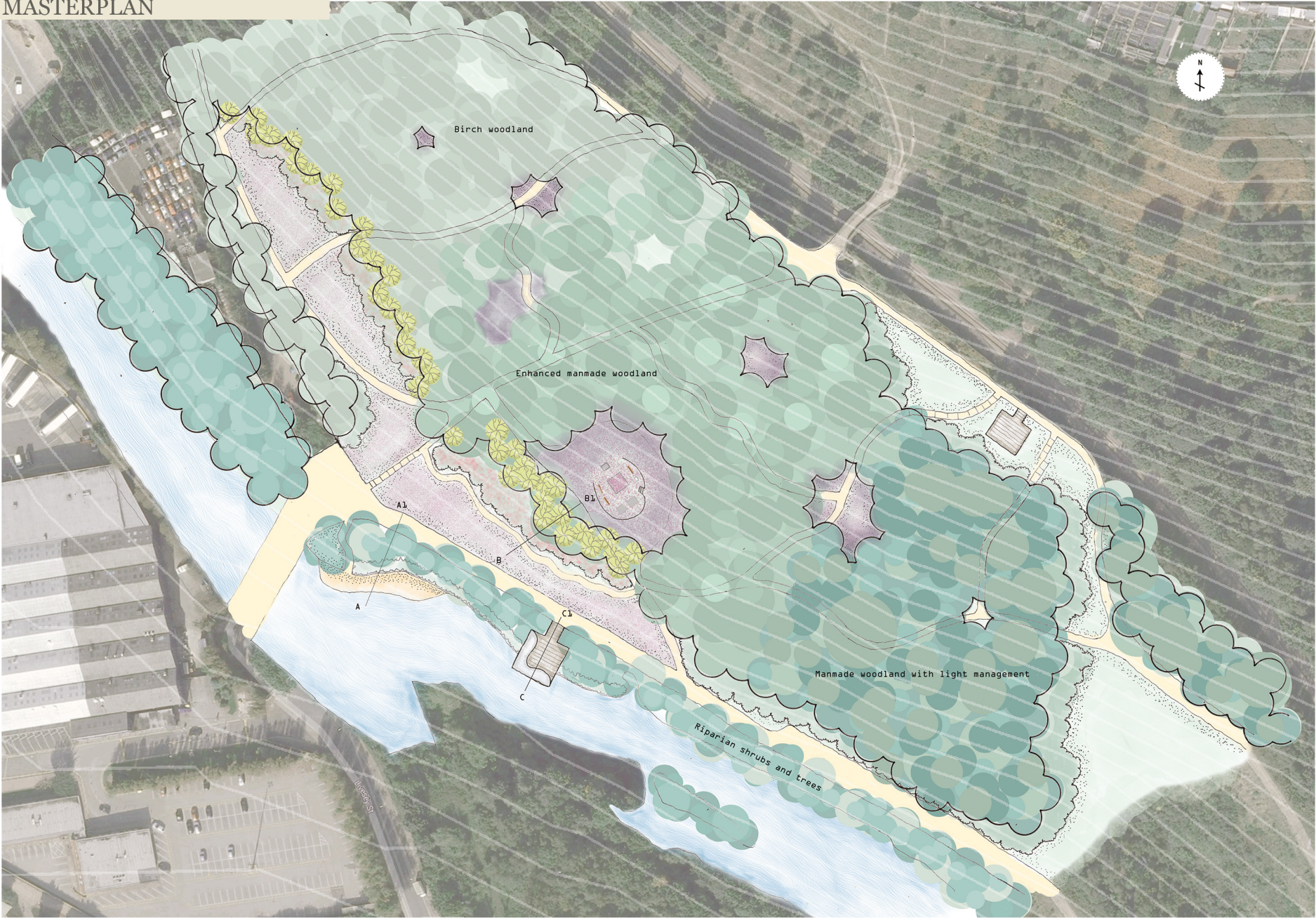
SECTIONS



CREATION AND MANAGEMENT

WARDSEND CEMETERY
Landscape Ecology 1: Ecological Processes, Design and Management

MASTERPLAN



PROJECT BACKGROUND

As part of the Livesey Street Project, the Wardsend Cemetery is located at the bottom of Livesey Street. The Wardsend Cemetery provides valuable wildlife habitat with attractive natural elements; however, the site suffered from derelict image and run-down feel, as well as fly-tipping issue. Many of the victims of the Great Sheffield Flood in 1864 are buried here as well as the war dead. The cemetery was closed in 1988 and fell into disrepair not long after the chapel was demolished. Local residents used to think the cemetery as a place for children's imaginative play in early 70's; however, most people feel disappointed about today's Wardsend Cemetery. Gruesome stories about the cemetery are spread between visitors and local residents, which made the image of this site even more negative than its actual condition.

The brief paid special attention on enhancing the site for both biodiversity and people, through creation and management. The inter-relationships between different habitats and human uses of these habitats are considered and emphasised throughout the whole project. The design and management plan were created with the consideration of the main vegetation types along with their biodiversity, aesthetic, and productive values.

The key vision of this project is to make the enjoyable nature and man-made history visible again by resurrecting what was already there. The design and management plan utilized the potential historical and cultural value of the cemetery to create visiting purposes for people.

Management Strategy for Greater Ecological Value

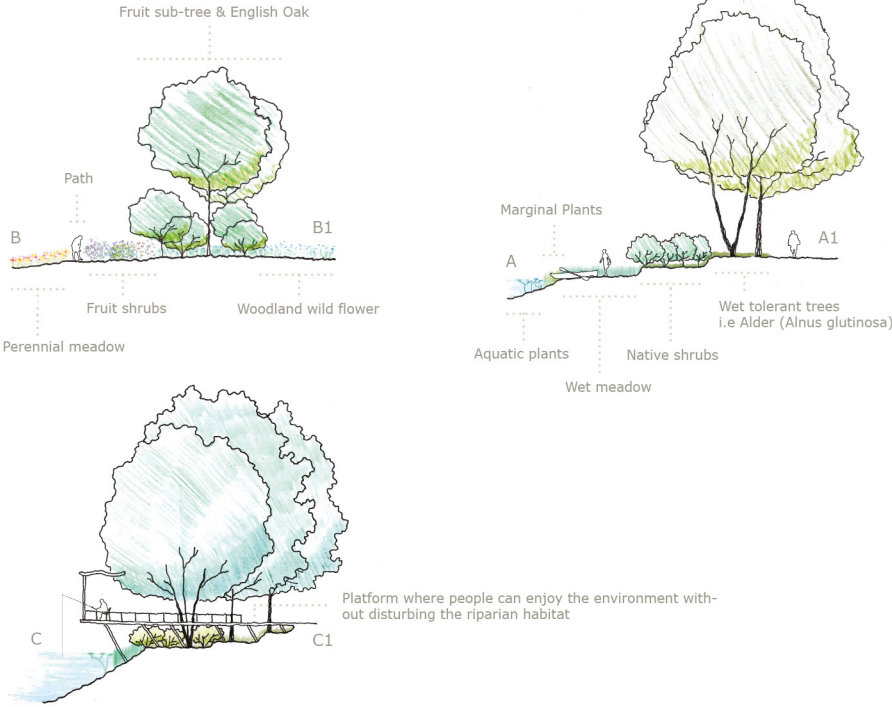
- The main management actions will focus on three aspects:
- Diversify the age of the trees
 - Diversify the woodland structure
 - Diversify the woodland species
- Detail actions will include coppicing, thinning, and pruning.

Sycamore will be routinely removed in some area to create a better environment for other woodland species. At the same time some area will remain the same to protect rare mosses and lichens supported by Sycamore

Wardsend Cemetery

KEY	
	Woodland wildflower
	Board platform
	Fruit woodland edge
	Woodland edge
	Long grass land
	Perennial meadow
	Fruit sub tree

SECTIONS



Vegetation Type Table

Building block	Main vegetation types	Bio-diversity benefits	Productive uses	Key management requirements
Man-made woodland	Sycamore (<i>Acer pseudoplatanus</i>); English Oak (<i>Quercus robur</i>)	Leaf eating insects; birds; small mammals; bad condition for ground flora	Timber	Light pruning in late winter or early spring.
Birch woodland	Silver Birch (<i>Betula pendula</i>)	Perfect conditions for grasses, mosses, wood anemone, bluebells, wood sorrel and violets to grow. Insects (moths), fungi; birds	Timber - furniture, handles, toys; Tanning leather	Light pruning in late winter or early spring.
Woodland edge	Herbaceous, Shrubs and small trees (Bramble, dog-wood, dog rose, crab apple)	Insects, birds, small mammals	Fruit	Coppicing
Tall grassland	Vigorous grasses with docks and thistles	Insects (butterflies, moth, bees), arthropods, birds, mammals	Reduce management cost	Cut in rotation; not mowing for one season; mow with reduced frequency; remove cuttings
Perennial meadow	Herbaceous perennials	Insects (butterflies, bees, grasshoppers), birds, small mammals (shrews, hedge-hogs)		Cutting between November and late February (the later the better for wildlife); burning the stubble in winter (optional); spot spray/pull/dig weeds in March and April;
Riparian zone	Willow (<i>Salix aurita</i>); Alder (<i>Alnus glutinosa</i>); marginal vegetation (reed, rush, grass, sedge species; pondweeds; duckweed); aquatic plants	Fish (brown trout), moss, fungi, invertebrates (mayflies, stoneflies, water - beetles, midges, caddisflies), bat, mammals (beaver), birds	Erosion protection	Coppicing (every up to 6 years); pollarding (every 10 - 15 years); selective limb removal; remove cuttings; plant control for aquatic plants (3-5 years)

ECOLOGICALLY TUNED, AESTHETICALLY AWARE

HILLSBOROUGH COLLEGE CAR PARK
Materials of Landscape – Planting Design

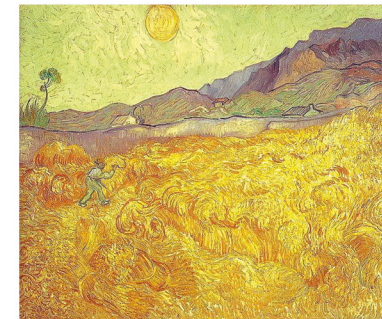
CONCEPT - A RIVER OF GRASS

The car park in the Hillsborough College is currently being upgraded with the aim that it will provide a rich, high quality vegetated environment that improves the visual quality of the space. Within the car park an area of green space has been left untouched and offers an exciting opportunity for re-design, that will improve the space both visually and functionally.

The project brief outlined creating an aesthetically pleasing while ecologically functional vegetated space on an undeveloped site, producing compelling visual impressions to benefit the Hillsborough College.



Case Study



Van Gogh, Wheat Fields with Reaper at Sunrise, (Saint-Rémy: early September, 1889)

The design concept was inspired by Van Gogh's painting. The curve, flow, and bright colour in those paintings inspired me to create a grassland with soft texture and seasonal interests especially in autumn. Waist height herbaceous plants will be used to create aesthetically value as adding different colour and texture.



ECOLOGICALLY TUNED, AESTHETICALLY AWARE

HILLSBOROUGH COLLEGE CAR PARK
Materials of Landscape – Planting Design

PLANTING STRATEGY

SKETCH PLAN



1. SOFT AND STRUCTURAL

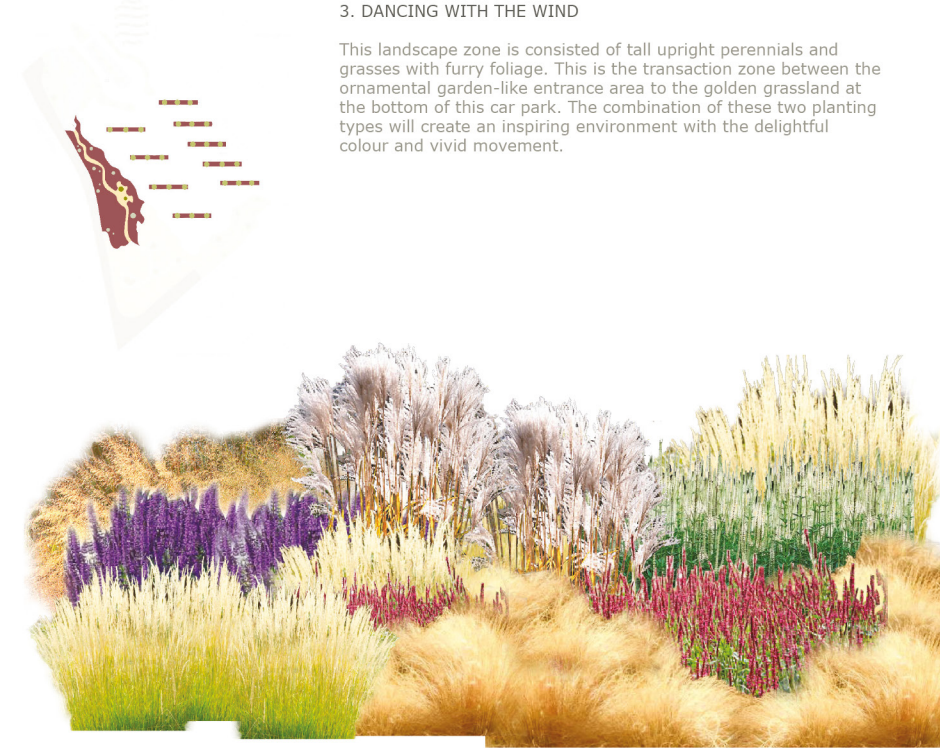
The plants design in those areas is consisted of waist high grasses and perennial plants with structural seed head.

The combination of these two types of plants will create a visual barrier between the pedestrian path and the car park which will create a more friendly environment for the pedestrians. Perennial plants will bring different colour into this area during their flowering season. The seed head of those perennials can also provide interesting texture during winter.



3. DANCING WITH THE WIND

This landscape zone is consisted of tall upright perennials and grasses with furry foliage. This is the transaction zone between the ornamental garden-like entrance area to the golden grassland at the bottom of this car park. The combination of these two planting types will create an inspiring environment with the delightful colour and vivid movement.



4. THE GOLDEN GRASSLAND

The golden grassland is a broad area at the bottom of the car park. Grasses and Rhus glabra will provide dramatic colour in the fall. This area will have seating area where people can be surrounded by the swaying golden grasses.



2. SHORT GRASSLAND

The main function of this landscape zone is to create a welcoming and friendly vision for people pass by the car park from outside the college. To achieve this function, the vegetation is below knee height to create a relatively open perspective.



5. THE GREEN ENTRANCE

The space in front of the college building will be defined use evergreen shrubs. The shrubs will be positioned in an gentle curve shape to meet the design concept of the whole area. Prunus avium will be planted in line for the dramatic flower in spring as well as long term seasonal interests.



ECOLOGICALLY TUNED, AESTHETICALLY AWARE

HILLSBOROUGH COLLEGE CAR PARK
Materials of Landscape – Planting Design

PLANTING STRATEGY

SECTION A



..... Betula pedula



..... Prunus avium



SECTION B



..... Rhus glabra



..... Betula pedula



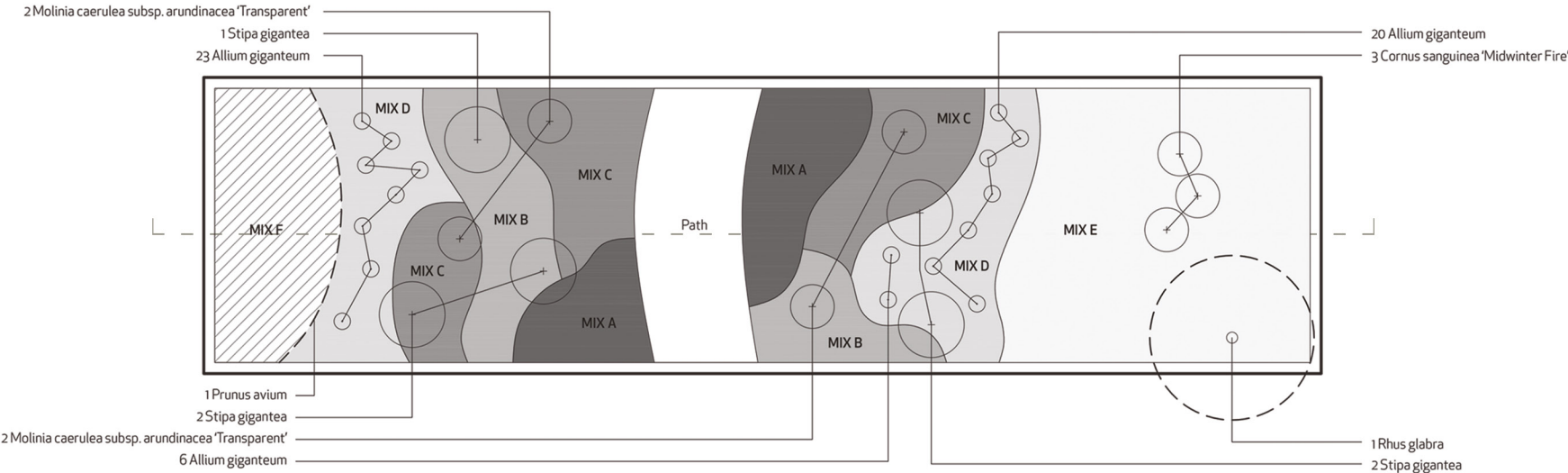
..... Rhus glabra



ECOLOGICALLY TUNED, AESTHETICALLY AWARE

HILLSBOROUGH COLLEGE CAR PARK
Materials of Landscape – Planting Design

PLANTING PLAN



MIX A. (10 m², spacing 700 mm, 2 p/m²) Full sun		
Species	Percentage (%)	Total No.
<i>Camassia leichtlinii</i> subsp. <i>Suksdorfii</i>	40	8
<i>Persicaria amplexicaulis</i> 'Firetail'	40	8
<i>Phlomis russeliana</i>	20	4
Total	100	20

MIX B. (11 m², spacing 600 mm, 3 p/m²) Full sun		
Species	Percentage (%)	Total No.
<i>Agastache</i> 'Blue Fortune'	20	7
<i>Anemathele lessoniana</i>	25	9
<i>Astilbe</i> 'Fanal' (× <i>arendsii</i>)	25	9
<i>Sanguisorba officinalis</i> 'Red Thunder'	30	10
Total	100	35

MIX C. (16 m², spacing 600 mm, 3 p/m²) Full sun		
Species	Percentage (%)	Total No.
<i>Agastache</i> 'Blackadder'	30	15
<i>Pennisetum alopecuroides</i> 'Hameln'	40	20
<i>Salvia verticillata</i> 'Purple Rain'	30	15
Total	100	50

MIX D. (17 m², spacing 700 mm, 2 p/m²) Full sun		
Species	Percentage (%)	Total No.
<i>Molinia caerulea</i> subsp. <i>caerulea</i> 'Poul Petersen'	30	11
<i>Perovskia</i> 'Blue Spire'	30	11
<i>Veronicastrum</i> 'Adoration'	40	14
Total	100	36

MIX E. (27 m², spacing 450 mm, 5 p/m²) Full sun to partial shade		
Species	Percentage (%)	Total No.
<i>Calamagrostis</i> × <i>acutiflora</i> 'Karl Foerster'	50	68
<i>Narcissus</i> 'Red Devon'	50	68
Total	100	136

MIX F. (10 m², spacing 700 mm, 2 p/m²) Partial to full shade		
Species	Percentage (%)	Total No.
<i>Camassia leichtlinii</i> subsp. <i>suksdorfii</i>	35	7
<i>Molinia caerulea</i> subsp. <i>caerulea</i> 'Poul Petersen'	30	6
<i>Veronicastrum virginicum</i> 'Album'	35	7
Total	100	20

Planting Schedule				
Species	Total No.	Pot size	Mature size	Supplier
Trees				
<i>Prunus avium</i>	1		7m tall - 12m wide	Coles Nurseries
Shrubs				
<i>Cornus sanguinea</i> 'Midwinter Fire'	3	9cm	1.5m tall - 0.8m wide	Crocus
<i>Rhus glabra</i>	1		4.5m tall - 4.5m wide	LORENZ VON EHREN
Grasses				
<i>Anemathele lessoniana</i>	8	2 litre	1m tall - 1m wide	Crocus
<i>Calamagrostis</i> × <i>acutiflora</i> 'Karl Foerster'	27	2 litre	1.8m tall - 0.6m wide	Crocus
<i>Molinia caerulea</i> subsp. <i>arundinacea</i> 'Transparent'	4	2 litre	2m tall - 0.8m wide	Crocus
<i>Molinia caerulea</i> subsp. <i>caerulea</i> 'Poul Petersen'	11	2 litre	1.2m tall - 1m wide	Crocus
<i>Pennisetum alopecuroides</i> 'Hameln'	13	1.5 litre	1.2m tall - 1m wide	Crocus
<i>Stipa gigantea</i>	5	2 litre	2.5m tall - 1.2m wide	Crocus
Herbaceous				
<i>Agastache</i> 'Blackadder'	14	9cm	0.9m tall - 0.4m wide	Crocus
<i>Agastache</i> 'Blue Fortune'	7	2 litre	1m tall - 0.4m wide	Crocus
<i>Astilbe</i> 'Fanal' (× <i>arendsii</i>)	8	2 litre	0.6m tall - 0.45m wide	Crocus
<i>Perovskia</i> 'Blue Spire'	5	1.5 litre	1.2m tall - 1m wide	Crocus

Planting Schedule				
Species	Total No.	Pot size	Mature size	Supplier
Herbaceous				
<i>Persicaria amplexicaulis</i> 'Firetail'	8	2 litre	1.2m tall - 1.2m wide	Crocus
<i>Phlomis russeliana</i>	6	2 litre	0.9m tall - 0.75m wide	Crocus
<i>Salvia verticillata</i> 'Purple Rain'	14	2 litre	0.75m tall - 0.5m wide	Crocus
<i>Sanguisorba officinalis</i> 'Red Thunder'	7	9cm	1.2m tall - 0.6m wide	Crocus
<i>Veronicastrum</i> 'Adoration'	14	9cm	1.2m tall - 0.4m wide	Crocus
<i>Veronicastrum virginicum</i> 'Album'	5	2 litre	1.8m tall - 0.6m wide	Crocus
Bulbs				
<i>Allium giganteum</i>	49	1 bulb	1.8m tall - 0.15m wide	Crocus
<i>Camassia leichtlinii</i> subsp. <i>suksdorfii</i>	7	5 bulbs	1.3m tall - 0.1m wide	Crocus
<i>Narcissus</i> 'Red Devon'	108	10 bulbs	0.5m tall - 0.1m wide	Crocus

SPRING



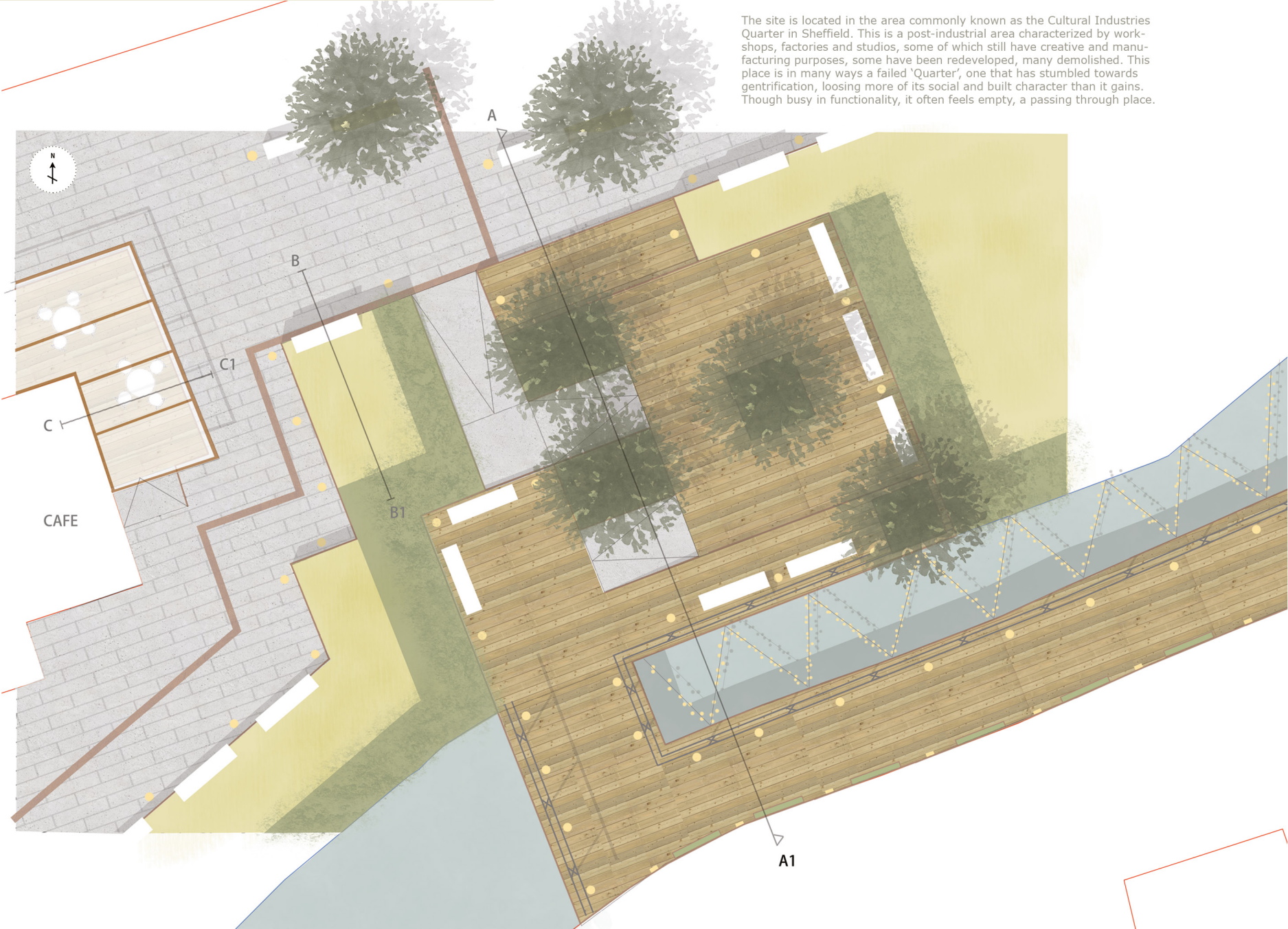
AUTUMN



EXPLORATION OF PUBLIC URBAN PLACE

SHEFFIELD CULTURAL INDUSTRIES QUARTER
Studio Design: Exploration and Intervention

MASTERPLAN



PROJECT BACKGROUND

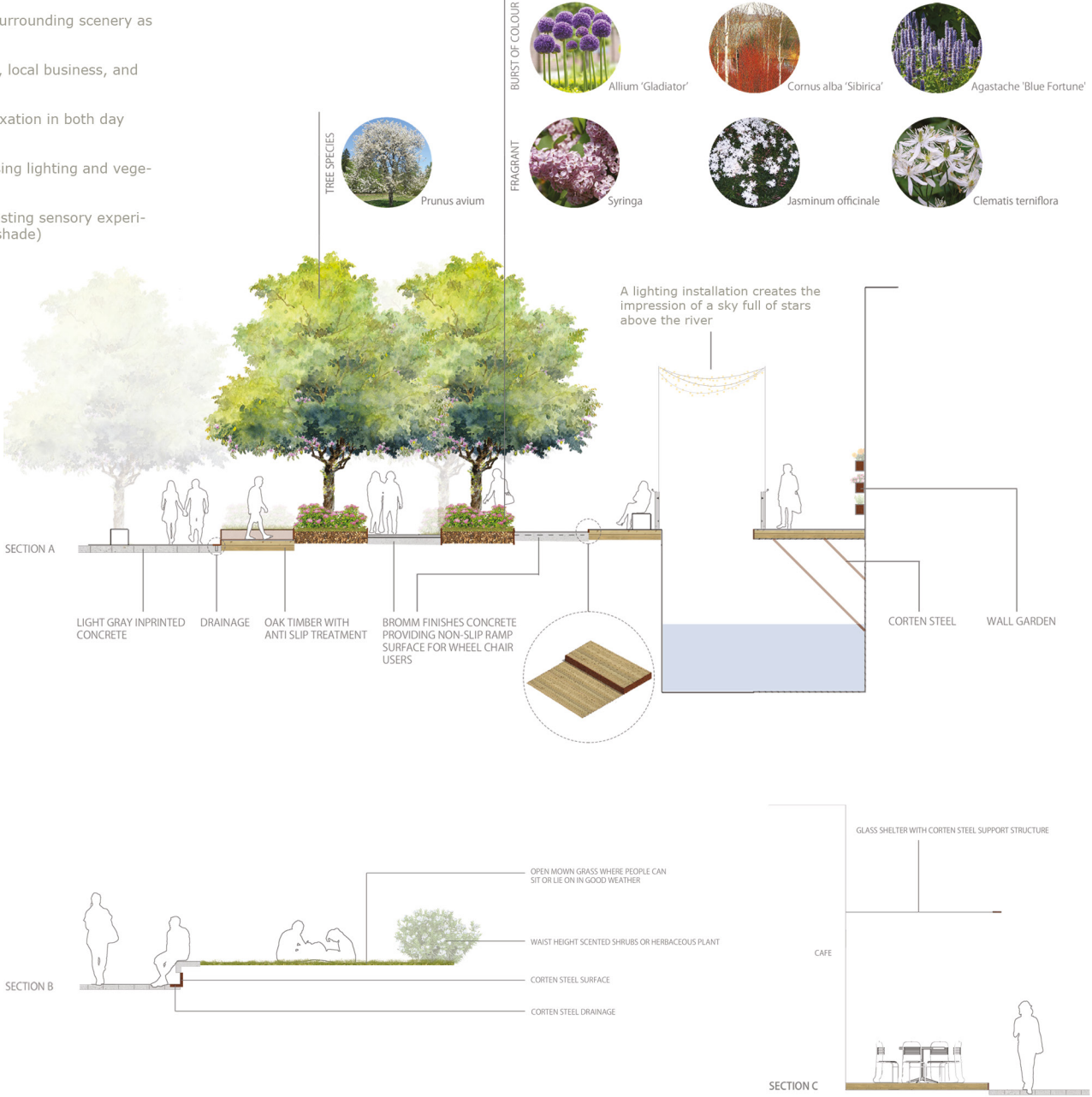
The site is located in the area commonly known as the Cultural Industries Quarter in Sheffield. This is a post-industrial area characterized by work-shops, factories and studios, some of which still have creative and manu-facturing purposes, some have been redeveloped, many demolished. This place is in many ways a failed 'Quarter', one that has stumbled towards gentrification, losing more of its social and built character than it gains. Though busy in functionality, it often feels empty, a passing through place.

DESIGN AIM

- Reconnect the city with the water's edge and create a new spot for meeting and leisure
- The design will take into consideration the surrounding scenery as well as create its unique character
- Create an unique interaction among visitors, local business, and the environment
- Provide space for social encounters and relaxation in both day and night
- Create sense of brightness and freshness using lighting and vege-tation
- Encourage visitors to stay by creating interesting sensory experi-ence (i.e. scent, texture, visibility, light, and shade)
Visitors are part of the landscape

Legend

- Prunus Serrulata
- Bench
- Shrub/Herbaceous
- Cafe table and chairs
- Mown grass
- LED Lighting
- Glass shelter
- River
- Wall garden



EXPLORATION OF PUBLIC URBAN PLACE

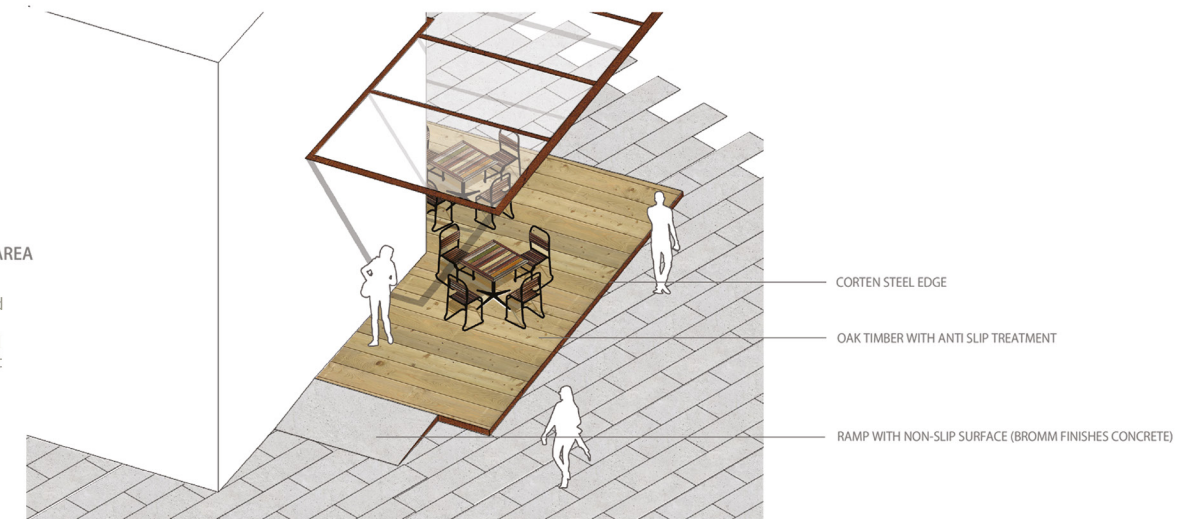
SHEFFIELD CULTURAL INDUSTRIES QUARTER
Studio Design: Exploration and Intervention

ISOMETRIC DRAWING



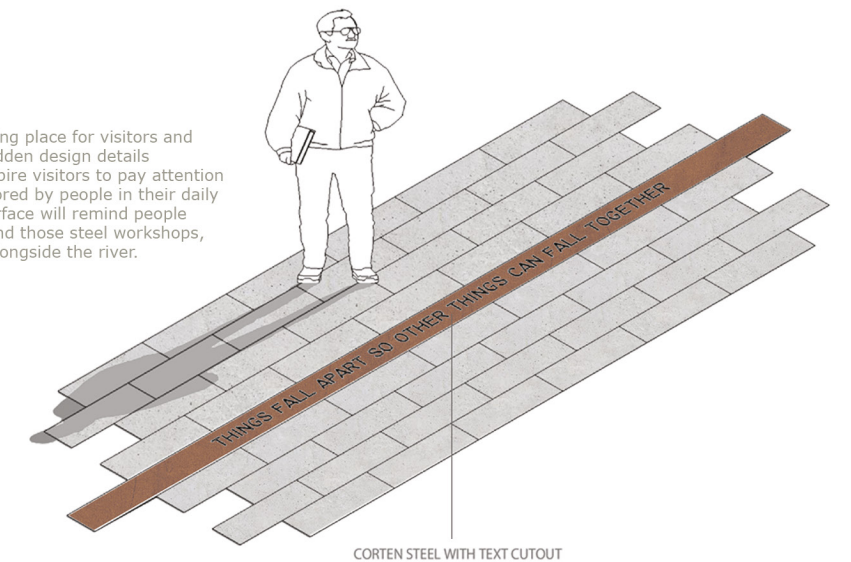
DETAIL ISOMETRIC DRAWING FOR CAFE AREA

With an emphasis on encouraging interaction between local business and visitors, the outside of the café area was designed using the same material and shared the character with the rest of the site. The glass shelter provides resting space for visitors in rainy weather. The wooden platform can be used as seating area as part of the café in day time; in addition, the platform can also be used as a stage for temporary activities like small concert.



DRAINAGE DETAIL

The design aims to become an inspiring place for visitors and offer people hidden surprises. The hidden design details throughout the whole project can inspire visitors to pay attention to small facts which were always ignored by people in their daily life. The corten steel and its rusty surface will remind people about the old character of the site, and those steel workshops, which were once busy and vibrant, alongside the river.



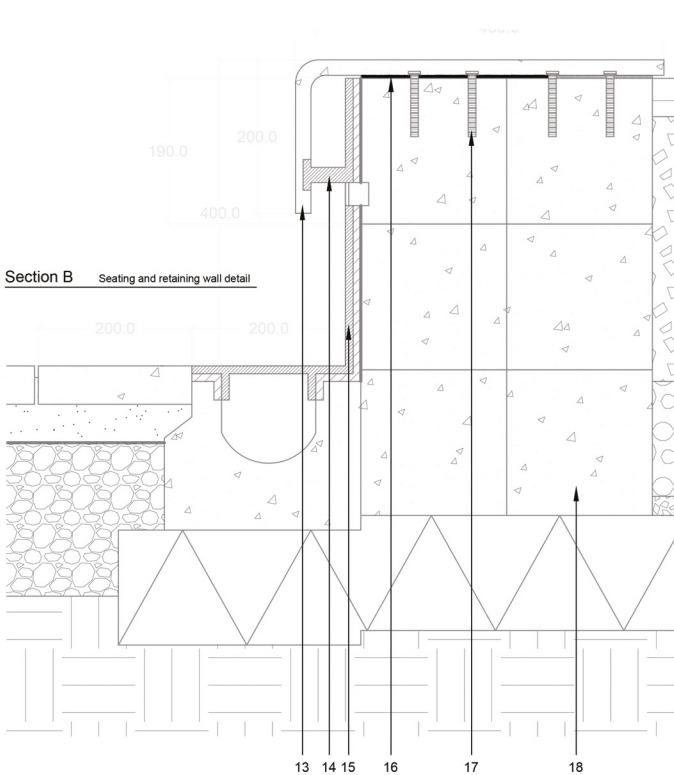
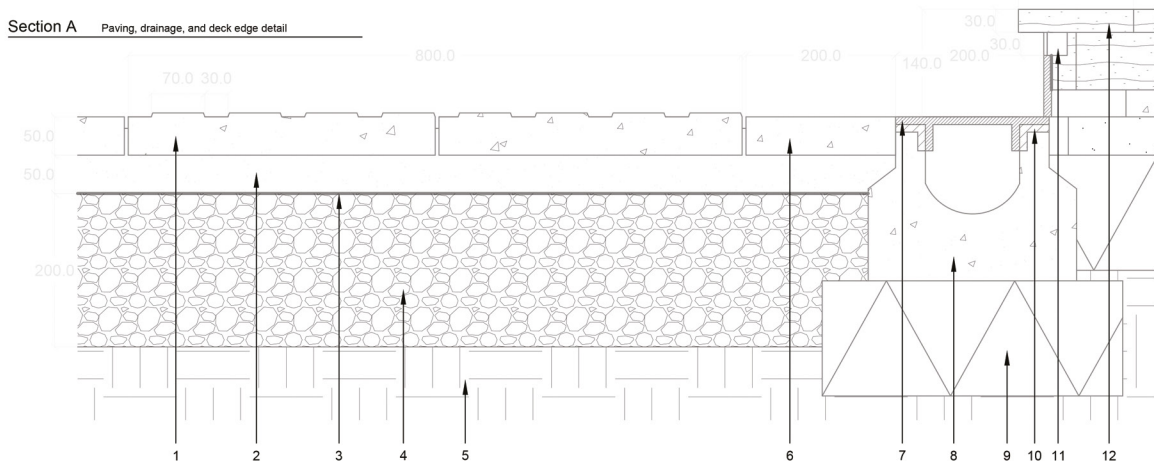
The design aims to inform an emotionally satisfying, visually stimulating, and comfortable space. The space enables a diversity of uses by diverse users. The design also creates a multi-sensory environment that can be enjoyed in different weather conditions.

EXPLORATION OF PUBLIC URBAN PLACE

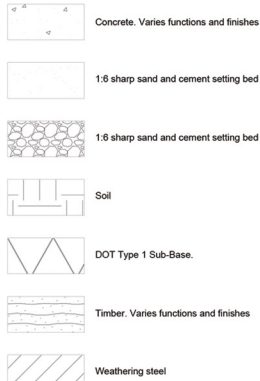
SHEFFIELD CULTURAL INDUSTRIES QUARTER
Materials of Landscape - Construction Design

CONSTRUCTION DESIGN

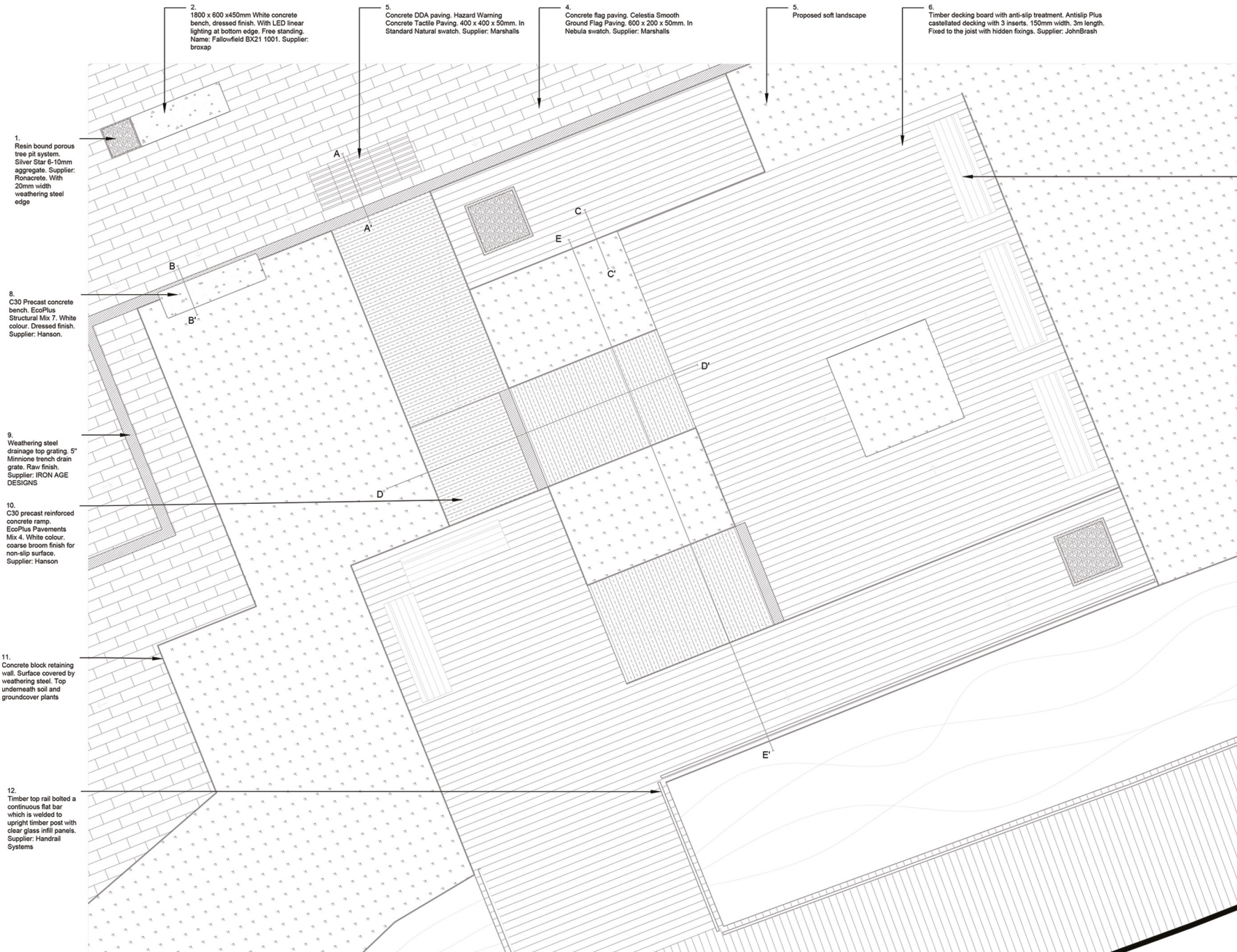
Section A Paving, drainage, and deck edge detail



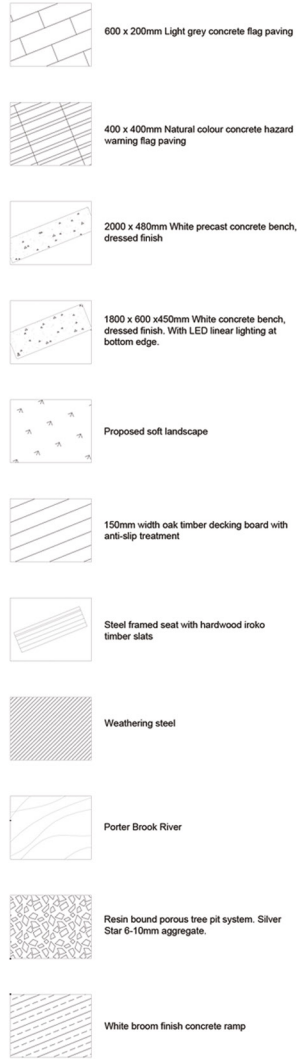
Material Keys:



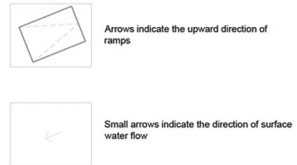
1. Concrete DDA paving, Hazard Warning Concrete Tactile Paving, 400 x 400 x 50mm. In Standard Natural swatch. Supplier: Marshalls
2. Setting bed. Sharp sand and cement in 6:1. Dry mix.
3. Geotextile
4. Open-graded base reservoir, No.2 stone subbase
5. Uncompacted subgrade soil
6. Concrete flag paving, Celestia Smooth Ground Flag Paving, 600 x 200 x 50mm. In Nebula swatch. Supplier: Marshalls
7. Weathering steel drainage top grating, 5" Minnion trench drain grate. Raw finish. Supplier: IRON AGE DESIGNS
8. Concrete Base Channel, BIRCOlight. Supplier: BIRCO
9. DOT Type1, 150mm
10. Steel corrosion protection
11. LED lighting, LED Linear, 30 x 26 x 6000mm. Aluminium coated with external grade powder. Supplier: Detail Lighting
12. Timber decking board with anti-slip treatment, Antislip Plus castellated decking with 3 inserts, 150mm width, 3m length. Fixed to the joist with hidden fixings. Supplier: JohnBrash
13. C30 Precast concrete bench, EcoPlus Structural Mix 7, White colour. Dressed finish. Supplier: Hanson
14. Weathering steel hook create extra stability for the concrete bench
15. Weathering steel as retaining wall surface. With corrosion protection. Attached to the retaining wall using mastic.
16. Mortar setting bed
17. Reinforcing fixing for concrete seating support. Fixed to concrete block retaining wall
18. Concrete block for retaining wall. Enviroblock concrete block, 390 x 190mm. Supplier: Aggregate Industries



Keys:



Notes:

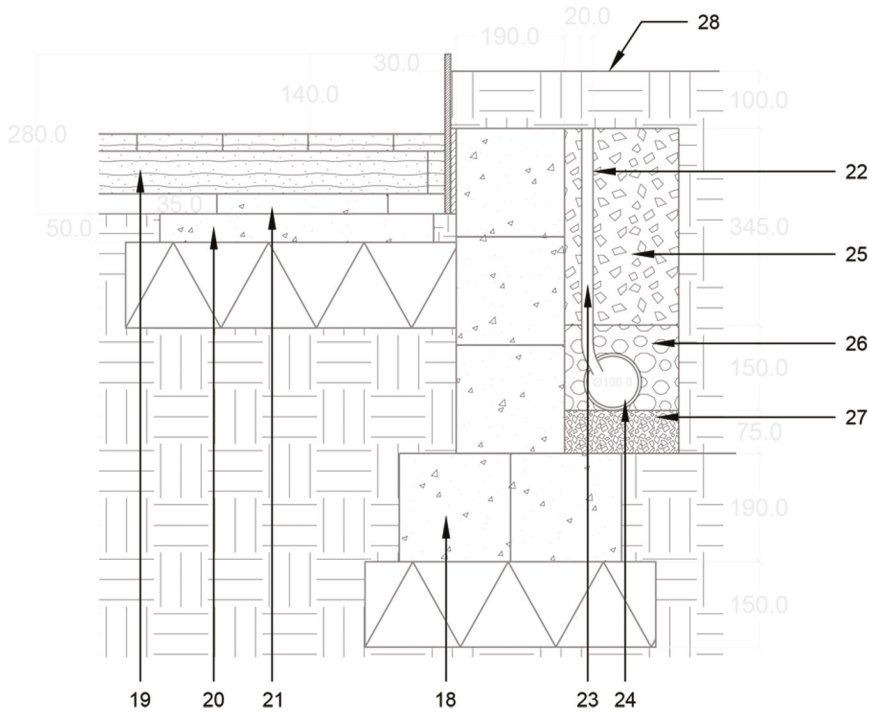


EXPLORATION OF PUBLIC URBAN PLACE

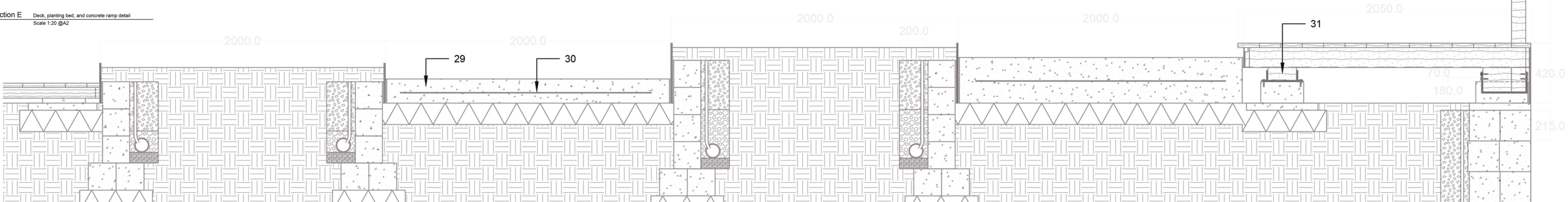
SHEFFIELD CULTURAL INDUSTRIES QUARTER
Materials of Landscape - Construction Design

CONSTRUCTION DESIGN

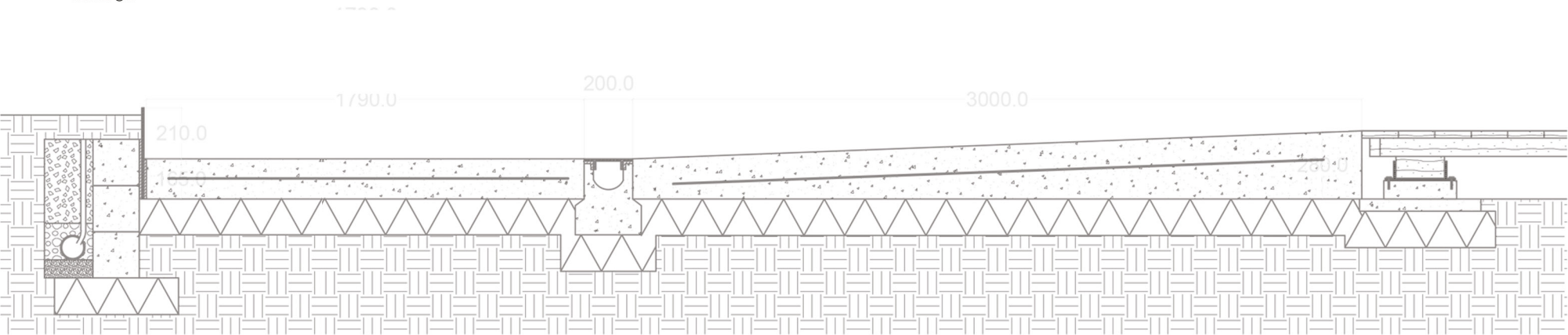
Section C Deck and planting bed detail



Section E Deck, planting bed, and concrete ramp detail
Scale 1:20 @A2



Section D Deck, planting bed, and concrete ramp detail
Scale 1:20 @A2

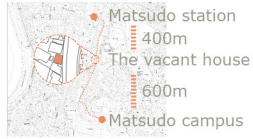


RENOVATION OF A VACANT HOUSE

MATSUDO, JAPAN
Landscape Project III

CITY PLANNING & HOUSING DESIGN

Location



The building is located beside the main road between The Matsudo Campus and the Matsudo Station. It is often passed yet ignored by local residents, due to its enclosed and unattractive appearance.

Functions of The Renovated House

Community Centre

The house will serve as a community centre which will create a space for students and local artists to hold events, sell goods, study, and simply have fun.

Nursery

The house will be equipped with a backyard and few vertical gardens. The spaces for planting creates opportunity for the house to function as community nursery, where students from Chiba University can cultivate plants and spread them to the city to create a greener Matsudo.

Kitchen

There will be a cooking area in the house, where can be used for non-profit activities like home party and profitable events. i.e. providing food which uses the food resources from the gardens in the house.

Hotel for Plants

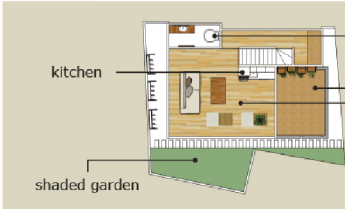
The house will provide plants looking after service to local residents. People can bring their plants to the house when they are not able to take care of them due to issues like travelling. Residents can also bring their unwanted plants here instead of throw the plants away.

This house will be capable with activities like

- | | |
|-----------------|--|
| Plants sale | Gardening event (Family gardening day) |
| Cooking | Hands-on horticulture course |
| Party | Plants hotel |
| Meeting | Events preparation (Mobile garden) |
| Exhibition | |
| Temporary shops | |

The Housing Design

1F Plan



2F Plan



Room section



Room view



Front side view



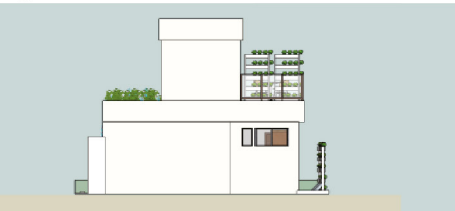
Back side view



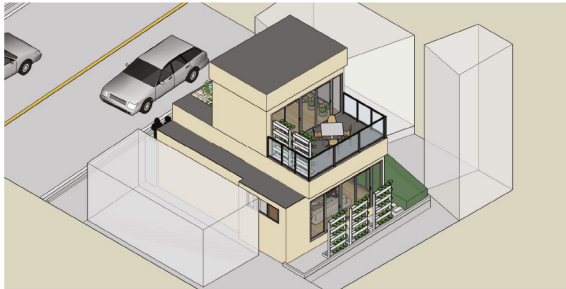
Left side view



Right side view



ISO view



The garden



The south part of the garden is covered in shade most of time. The garden will be fully planted as a colourful shaded garden, with shade tolerant plants. Some kitchen herbs can be planted in shade too. i.e. Onion Chives, Garlic Chives, Mint, and Parsley. Those herbs can be used for cooking events, provide transplanting opportunity for local residents and the whole city, and for sale.

Lighting will be placed in the shade garden to provide interesting view in night time.

The front-door decking area



Temporary exhibition

The front-door decking area will be visible for anyone who walk along the street; therefore, this space can be used to promote cultural or marketing events. In order to attract people's interests to the house, the roof of the decking area will be planted with scented plants like Honeysuckle. The scent from the plants will emphasis the theme and function of the house as well as provide pleasing sensory experience to passengers.



Plants sale

Thank you for your time



Contact:
mli44@sheffield.ac.uk