

The University of Manchester
The Old Quadrangle

Summary Hard and Soft Material Schedule

UMOQ-ITR-VV-XX-SP-L-1000

30th August 2023

P01

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1 Introduction

The summary hard and soft materials schedule represents a breakdown of specific materials and furniture types and their locations within the Old Quad project.

- To be read in conjunction with drawings
- UMOQ-ITR-XX-00-DR-L-0001 (Landscape Masterplan)
 - UMOQ-ITR-XX-00-DR-L-0101 (Landscape General Arrangement)
 - UMOQ-ITR-XX-00-DR-L-0301- 303 (Proposed Site Sections)

Concept Masterplan

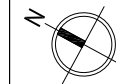
Legend:

1. Queens Arch
2. Museum Building
3. Whitworth Hall
4. Christie Building
5. John Owens Building
6. Beyer Building
7. The Old Quad Ellipse
8. Central Formal Lawn
9. Existing Boulder on Raised Plinth
10. Beyer Building Boston Ivy Facade
11. Feature Seating / Interpretation Ellipse
12. Structured ornamental planting
13. Habitat Creation Opportunity
14. Informal Seating Space
15. Bench Seating to Museum Building
16. Cycle Parking
17. Accessible Parking Spaces
18. Accessible Drop-off Bay
19. Bin Storage
20. Delivery Drop-off Bay
21. Wayfinding / Signage Opportunity
22. Photo Opportunity





- KEY
- Site Boundary
 - P1 - Granite Set Paving
 - P2 - Reclaimed Sandstone Paving
 - P3 - Sandstone Paving
 - P4 - 'Ellipse' Granite Paving
 - P5 - Resin Bound Aggregate Paving
 - W1 - 'Ellipse' Stone Seating Wall
 - E1 - Granite Edging 50mm Upstand
 - E2 - Granite Edging Flush
 - E3 - Granite Edging 300mm Upstand
 - E4 - Metal Edging 50mm Upstand
 - E5 - Metal Edging Flush
 - Cultivated Turf
 - Ornamental Planting with Specimen Shrubs & Grasses
 - Low Clipped Hedge
 - Existing Trees Retained
 - Small Ornamental Trees
 - Specimen Shrubs
 - B1 Integrated Bench with Backrest
 - B2 Linear Bench with Backrest
 - B3 Single Seat with Backrest
 - B4 Single Cube Seat
 - Wayfinding Position
 - CS Cycle Stands
 - LB Litter Bins
 - LP Log Pile
 - WP Water Pool



SCALE BAR 1:200

NOTES:

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To be read in conjunction with:

- UMQ-TR-XX-00-DR-L-0001 - Landscape Masterplan
- UMQ-TR-XX-00-DR-L-0002 - Removals Plan
- UMQ-TR-XX-00-DR-L-0301 - Landscape Sections (Sheet 1 of 3)
- UMQ-TR-XX-00-DR-L-0302 - Landscape Sections (Sheet 2 of 3)
- UMQ-TR-XX-00-DR-L-0303 - Landscape Sections (Sheet 3 of 3)
- UMQ-TR-VV-XX-SP-L-1000 - Summary Hard and Soft Material Schedule
- 7212 D+A Statement_(-) 2023 08 30,1 - Design and Access Statement

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DRAWING RECORD

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REVISION
P01

2

The Old Quad's Core Materials



Sandstone



Granite



Wood

3

Hard Landscape - Surface Types



Key

- 1. Granite sett mix (P1)
- 2. New sandstone (P2)
- 3. Reclaimed sandstone (P3)
- 4. Resin Bound Aggregate (P5)



1. Granite sett mix



2. New sandstone



3. Reclaimed sandstone



4. Resin Bound Granite Aggregate

1. Granite sett mix (P1)



Current specification:

Supplier: Hardscape

Product: Granite mix
40% Magma flamed
40% Yellow Rock bush hammered
20% Barleycorn flamed

Finish: as above

Size: 100x100mm

Laying pattern: Stretcher bond

Origin: China

2. New sandstone (P2)



Current specification:

Supplier: Hardscape

Product: Mixed Colour Pennant

Finish: Sawn

Size: 300mm wide x 900 / 600mm long and
100mm wide x varying lengths

Laying pattern: Stretcher bond

Origin: Gloucester, UK

3. Reclaimed sandstone (P3)



Current specification:

Supplier: Sourced from existing stone within the
Old Quad. Hardscape provide a 'Paving Refresh'
service to re-purpose lifted / relaid paving.

Product: n/a

Finish: To be re-finished to provide necessary anti-
slip properties

Origin: Original origin unknown

4. Resin Bound Aggregate (P5)



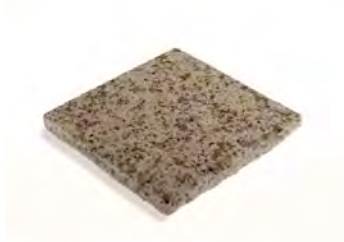
Current specification:

Supplier: Sureset

Product: Resin bound granite aggregate, Winter
Pearl 6mm

Finish: n/a

Origin: tbc



Magma flamed



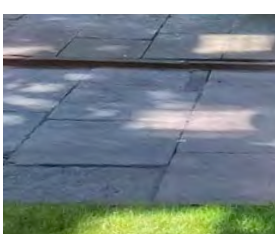
Yellow Rock bush
hammered



Barleycorn flamed



Mixed Colour Pennant
Sawn



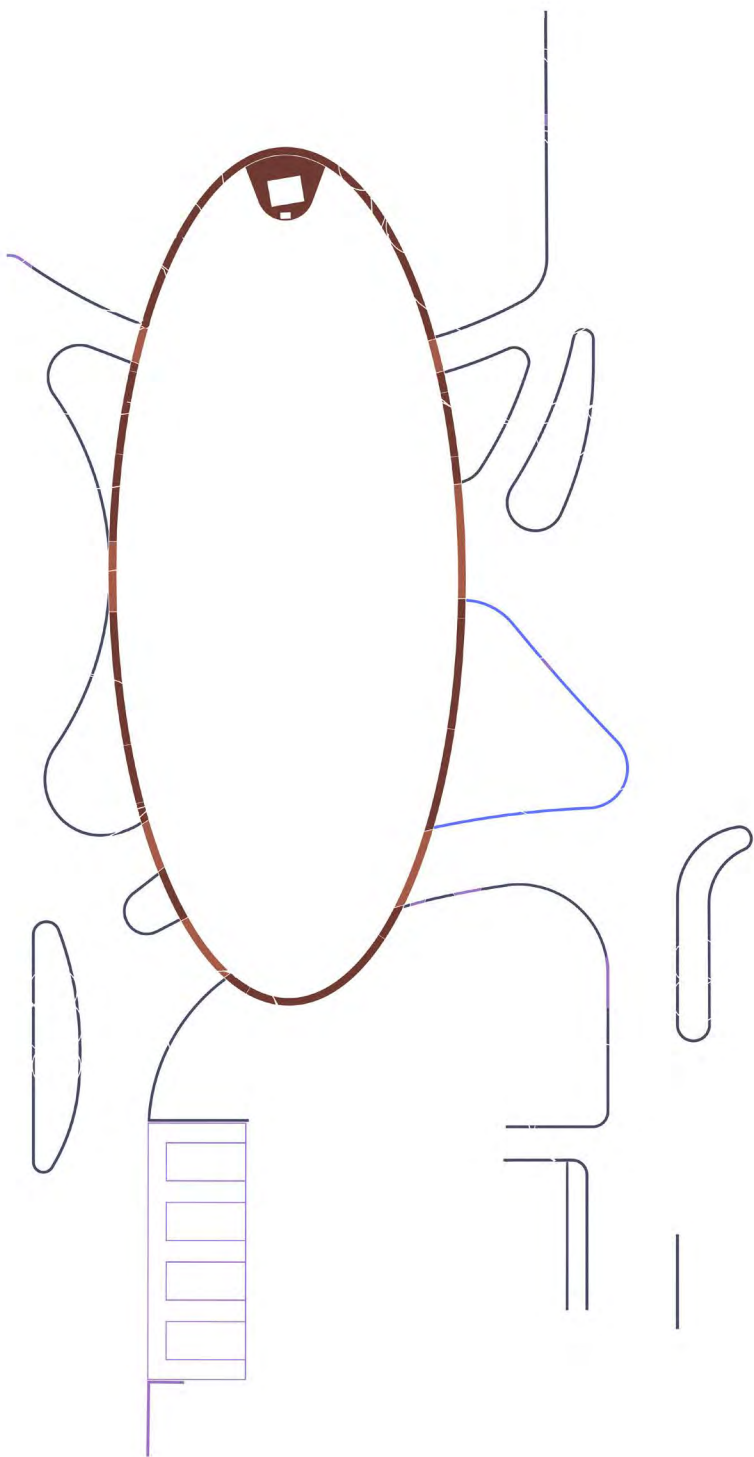
Existing sandstone
reclaimed and re-
purposed



Winter Pearl 6mm

4

Hard Landscape - The Ellipse and Edging Materials



Key

- 1. Granite 'Ellipse' seat wall (W1)
- 2. Granite 'Ellipse' flush (P4)
- 3. Granite edging (50mm upstand E1) with flush access as required (E2)
- 4. Granite edging (300mm upstand) (E3)



1. Granite 'Ellipse' seat wall



2. Granite 'Ellipse' flush



3. Granite Edging (50mm upstand)



4. Granite Edging (300mm upstand)



1. Granite ‘Ellipse’ seat wall (W1)



Current specification:

Supplier: Hardscape

Product: Silva Montemuro Cinza

Finish: Flamed

Origin: Portugal

2. Granite ‘Ellipse’ flush (P4)



Current specification:

Supplier: Hardscape

Product: Silva Montemuro Cinza

Finish: Flamed

Origin: Portugal

3. Granite Edging (50mm upstand & Flush E1 & E2)



Current specification:

Supplier: Hardscape

Product: Yellow Rock

Finish: Bush Hammered

Size: 50mm upstand (above adjacent ground level) or flush to access points

Origin: China

4. Granite Edging (300mm upstand E3)



Current specification:

Supplier: Hardscape

Product: Yellow Rock

Finish: Bush Hammered

Size: 300mm upstand (above adjacent ground level)

Origin: China



*Silva Montemuro Cinza
flamed*



*Silva Montemuro Cinza
flamed*



*Yellow Rock bush
hammered*

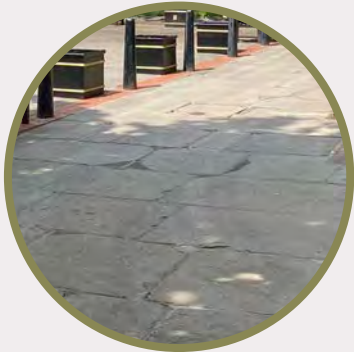


*Yellow Rock bush
hammered*

Material Samples



Hard Surface Material Visualisation



Reclaimed sandstone (P3)



New sandstone (P2)



Granite 'Ellipse' (W1)

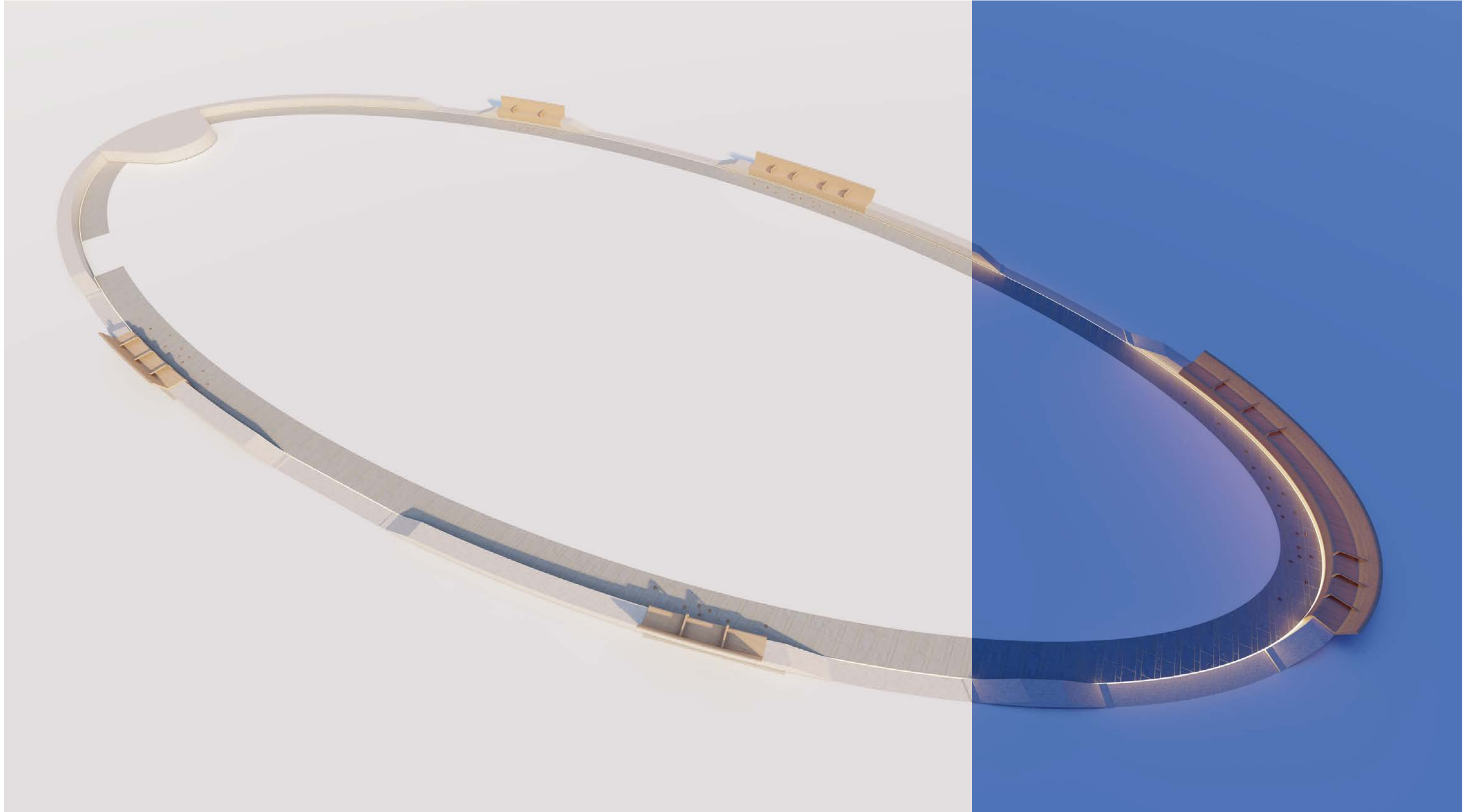


Granite sett mix (P1)



Resin bound aggregate (P5)

5 Seating and Furniture - The Ellipse





Timber slats - natural finish



Timber slats - natural finish



Timber slats - natural finish weathered



Timber slats - natural finish



Existing campus example

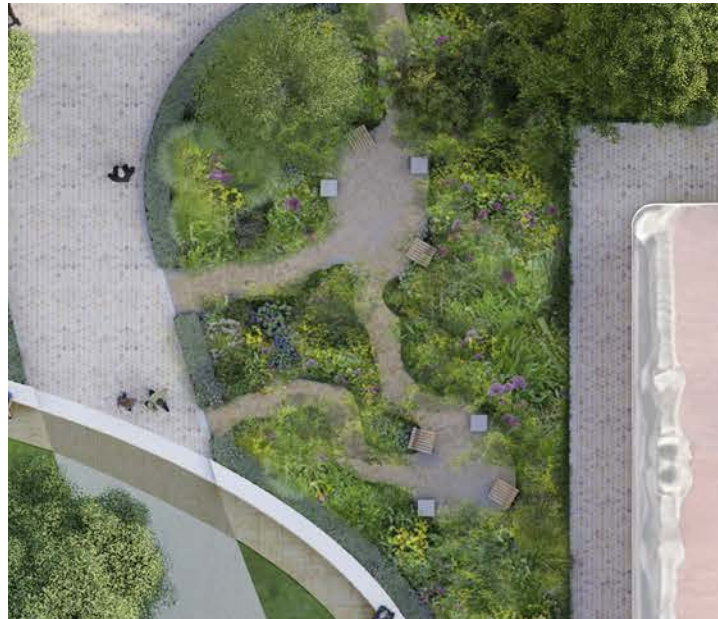


Existing campus example

Timber Classification system

Durability class	Designation	Timber life(worst case)	Examples
1	Very durable	25+ Years	Tropical Hardwood, Teak, Opepe
2	Durable	15 – 25 Years	UK Grown Oak , Ekki, Iroko, Other Topical Hardwoods
3	Moderately durable	10 – 15 Years	Douglas Fir, Walnut
4	Slightly durable	5 – 10 Years	European Elm, Scandinavian Pine, Larch
5	Not durable	0 – 5 Years	Beech, Ash, Balsa

6 Seating and Furniture - Glades and Alcoves



Seat type 1



Natural stone seat

Current specification:

Seat Type 1

Supplier: Logic Bespoke

Product: Plateau seat 580mm

Finish: UK grown oak with powder coated legs

Origin: UK

Natural stone seat

Supplier: Hardscape

Product: Mixed Colour Pennant

Finish: Sawn top, natural sides

Size: 450mm high x 500mm wide x 500mm long

Origin: Gloucester, UK



The Glades

The Glades are a series of smaller, informal seating opportunities within areas of planting throughout the Old Quad.

These spaces provide grouped individual seats which offer a variety of seating opportunities for quieter, more reflective time in the Quad.



The Alcoves

The alcove bench seating is located in the Whitworth Building recesses to the north of the site. These longer benches with backrests and armrests offer views from the perimeter of the Old Quad looking into the space.



Current specification:

Bench Type 1

Supplier: Logic Bespoke

Product: Plateau Bench 2380mm

Finish: UK grown oak with powder coated legs

To include armrests

Origin: UK

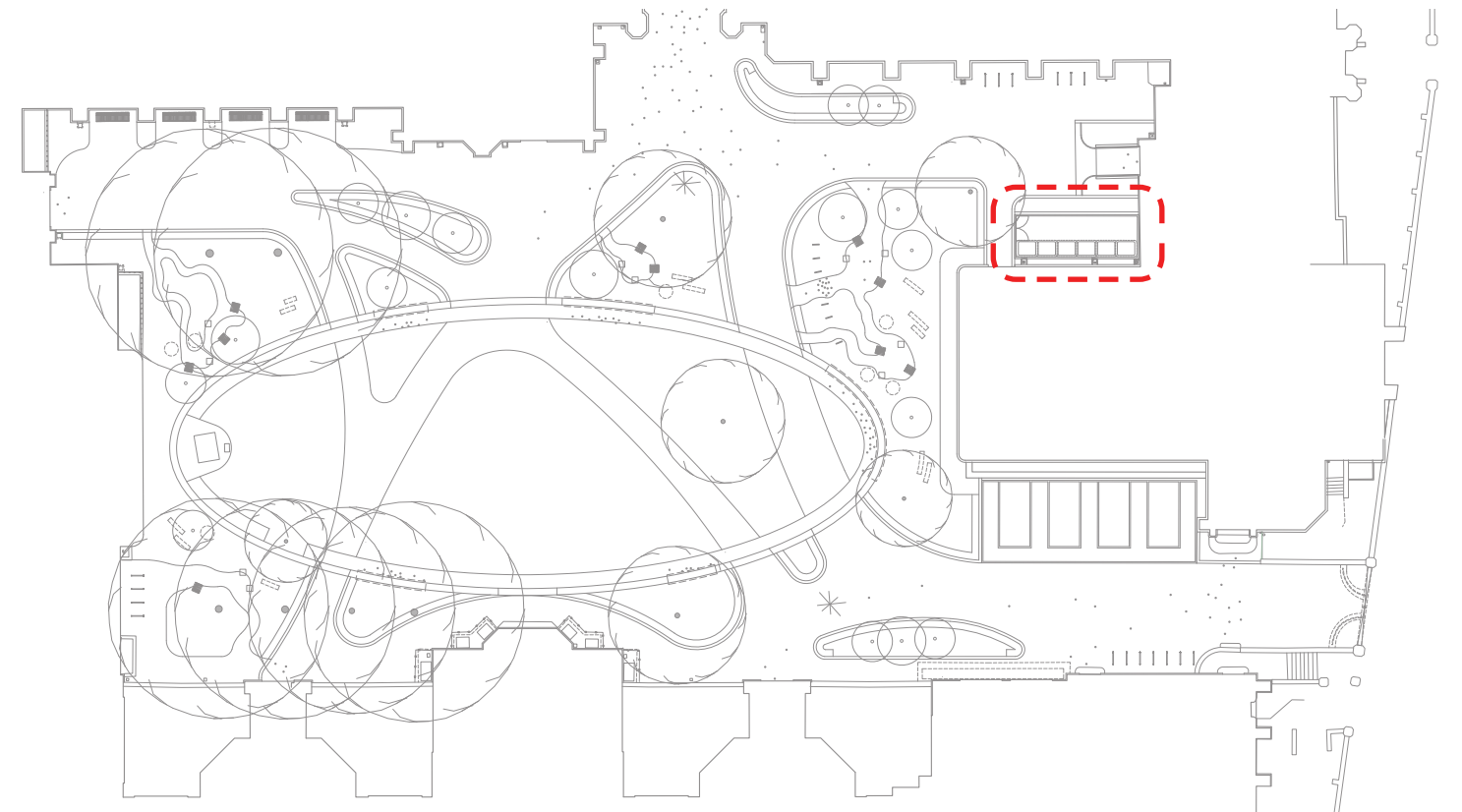
7 Seating and Furniture - Bin Store Enclosure



Existing Christie access / servicing space



Proposed timber bin storage area



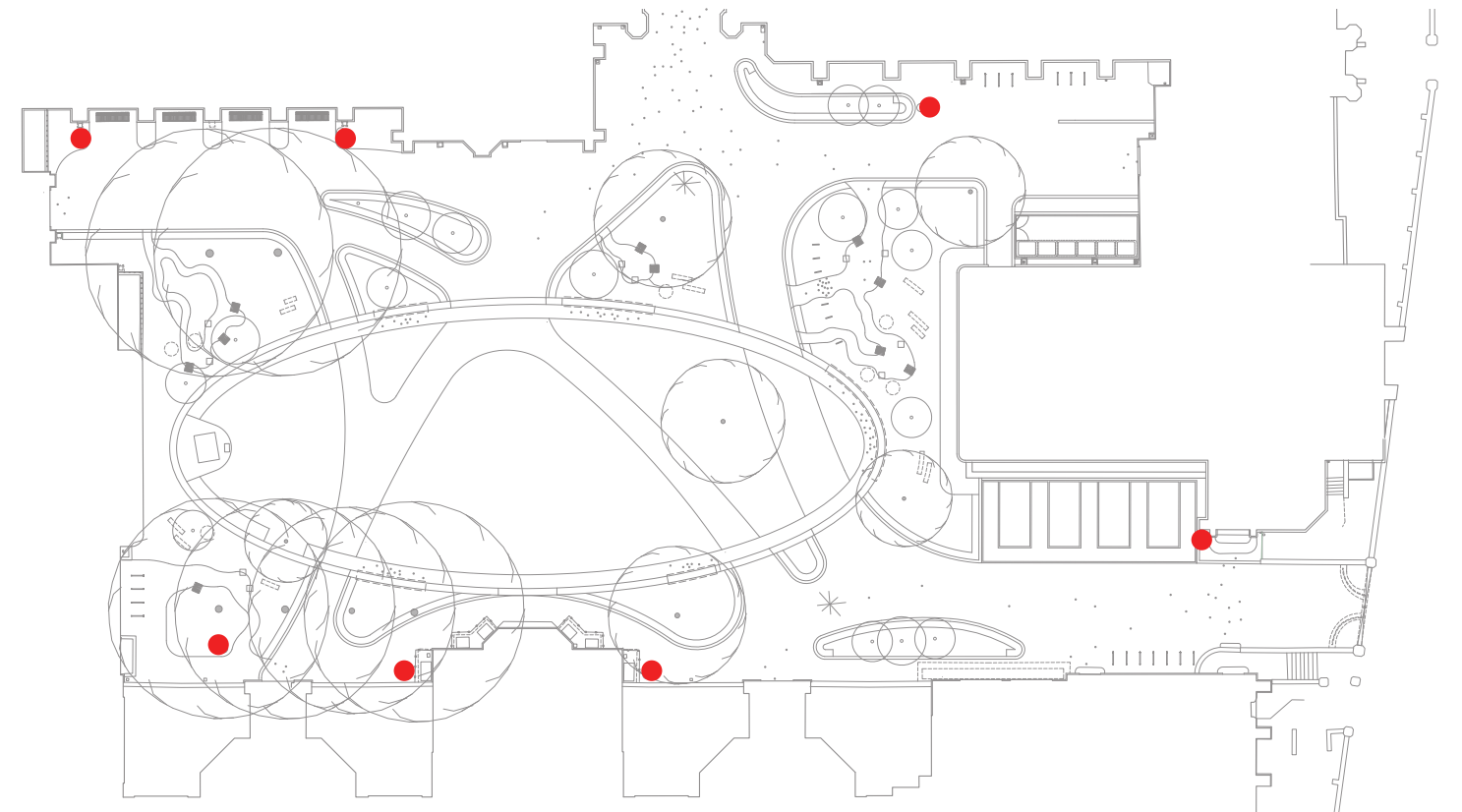
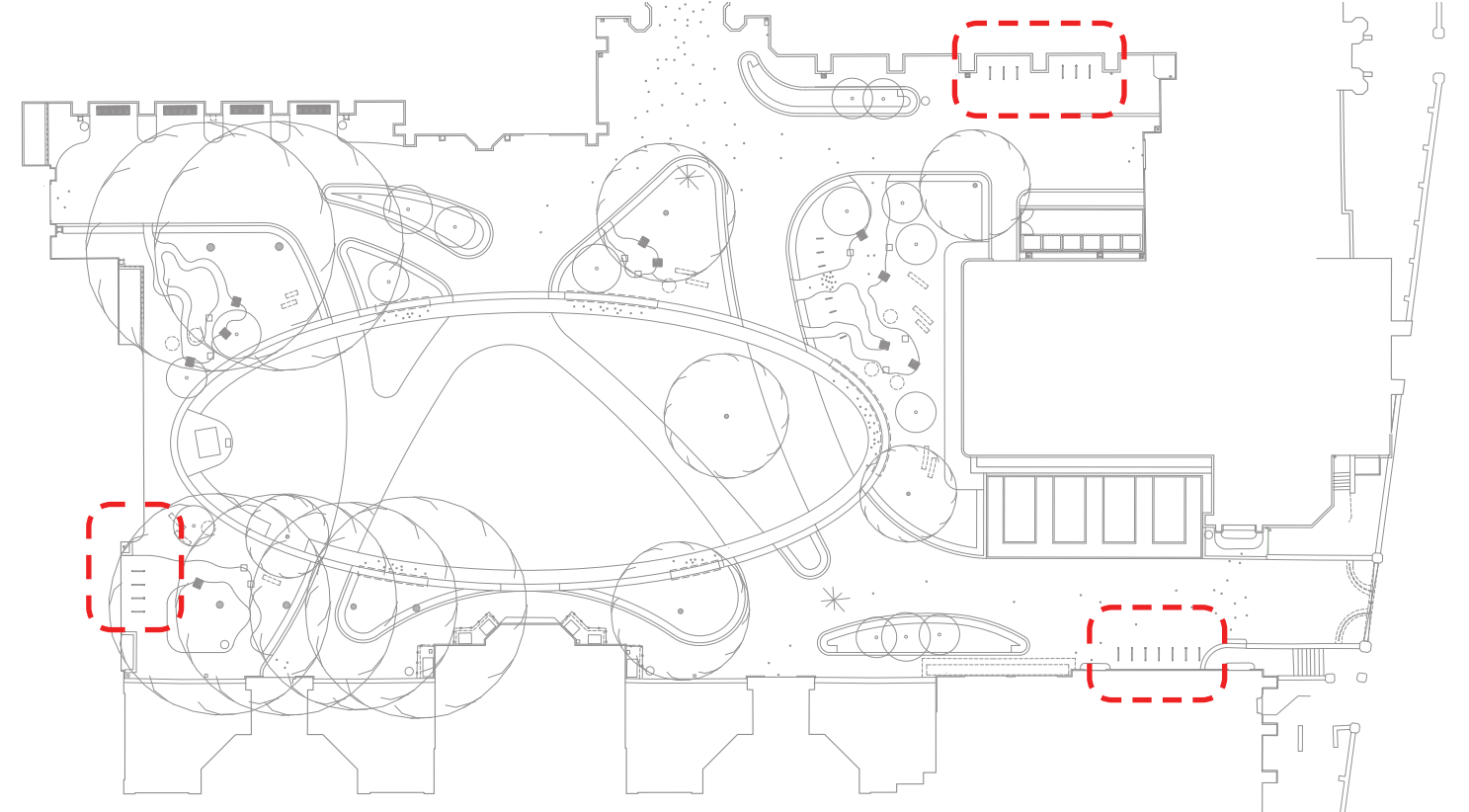
Seating and Furniture - Cycle Parking and Litter Bins



Stainless steel 'Sheffield' type stand



Existing Old Quad example



9 Ecological Features

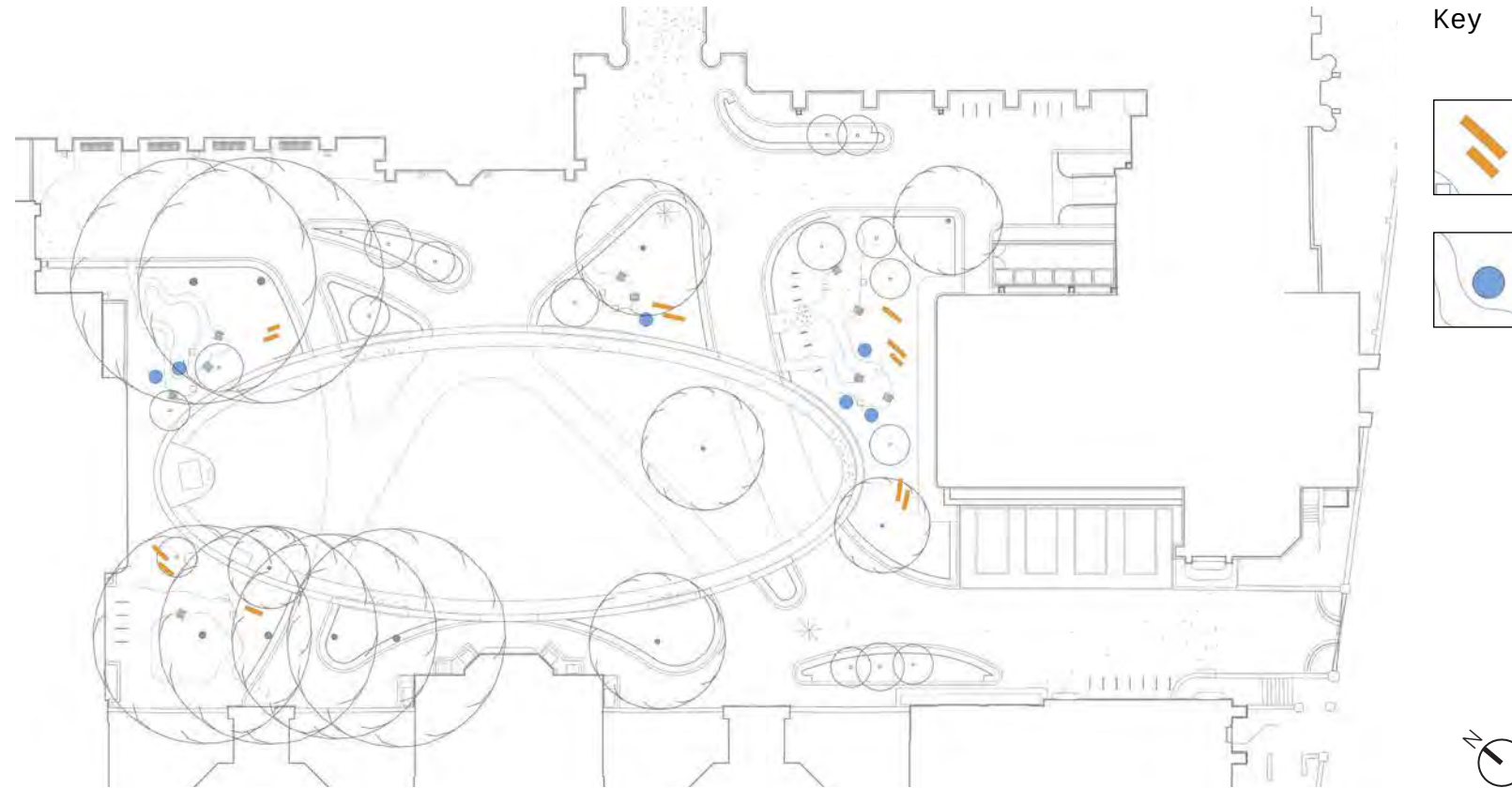
Key ecological features identified throughout the design engagement and development phases have been habitat creation opportunities, in the form of log piles and water pools.

Any habitat creation opportunities will need to be appropriate to the heritage setting of the Old Quad. We need to ensure that these features are incorporated into the design but in a sensitive way.

Log piles will be included in a sculptural form within the planting beds as shown within the images on this page. They will blend into the naturalistic planting within the deeper planted areas and mimic clump forming species. The aim of the design is for the log piles to be very discreet, while providing ample habitat for invertebrates.

Small pools are to be included within the scheme to provide an element of drinking / washing water for birds and invertebrates. These pools will be approximately 1m in diameter and relatively shallow, these would not be classified as ponds. It is important that the pools provide habitat enhancement but do not encourage breeding biting insects.

Pools will be located within deeper planted areas to discourage access by pedestrians. They will be discreetly positioned but with some visibility from the secondary seating areas.



Key



Log Pile Habitat Creation



Pool Habitat Creation



Ornamental log piles (credit Nigel Dunnett)

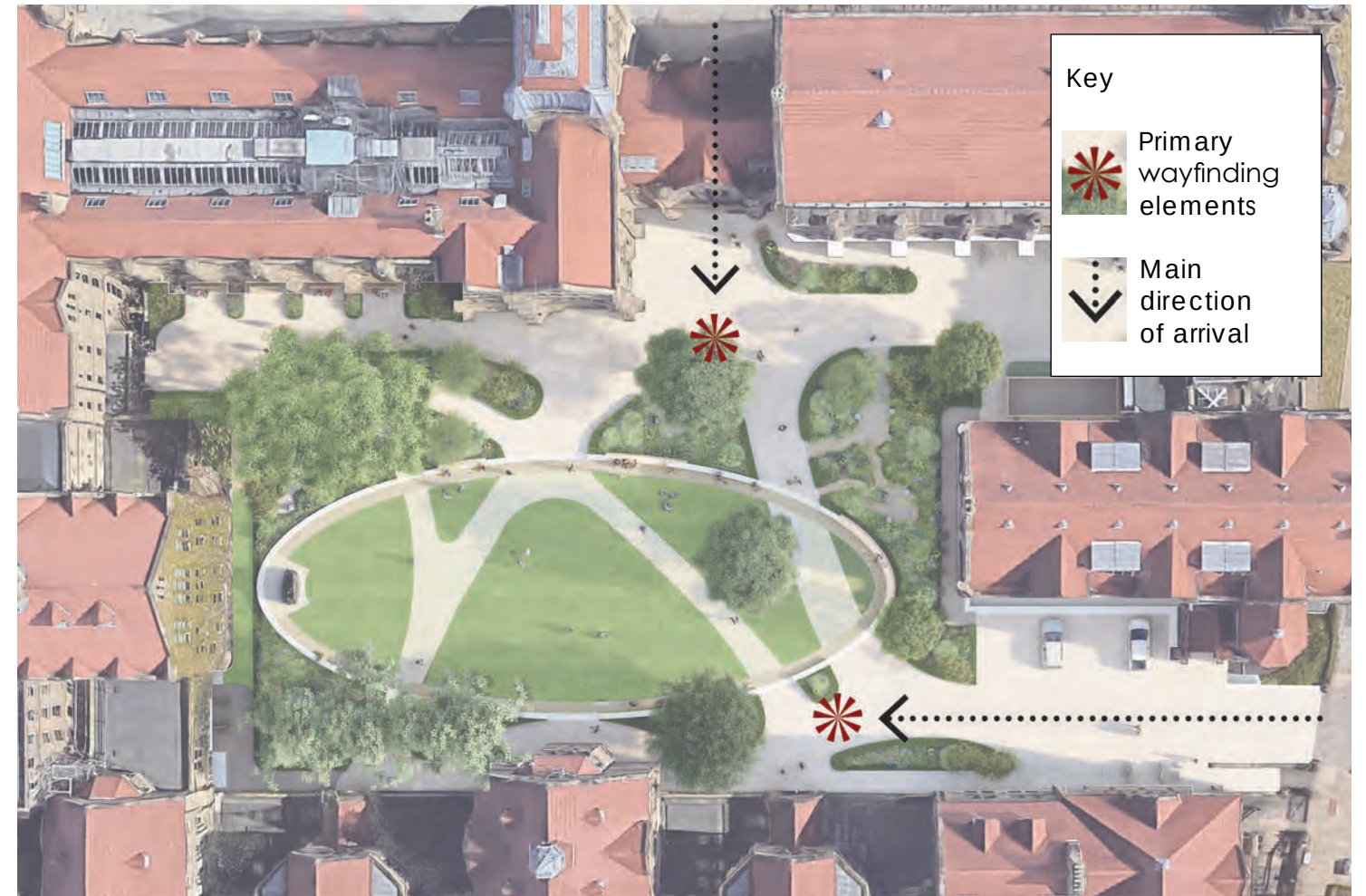


Example of a small pool at RHS Bridgewater

10 Wayfinding



Proposed UofM plinth signage to Queen's Arch entrance



Plan of relocated key wayfinding point



Existing Old Quad wayfinding to be incorporated at Burlington Street entrance

11 Soft Landscape

Planting Palette - Species Spotlight

It is essential to the success of the scheme, and the identity of the University that the Old Quad carries the right high quality appearance throughout the year. This is a space that will function through all seasons.

Due to the large percentage of the space which will be soft landscape, to create the University heart garden the Ellipse is designed around, we need to ensure that the soft landscape has full seasonal appeal.

The planting design will incorporate species with spring, summer and autumn flowering periods, multi layered textural foliage, both deciduous and evergreen, scented foliage and flowers and stem / bark interest.

The intention of the design is to wrap the planting beds in low, semi-formal hedges to give a consistent appearance from the outside, while the plants within the beds flower, develop and undertake natural succession. This hedge warp will form a modern 'parterre', allowing more freedom and creativity to the planting design within the beds while maintaining a neat, high quality exterior.

All plant species on the project will be selected for a value that they bring to the scheme. Each species will add to the overall biodiversity and ecological benefit of the project, be it in relation to attracting pollinators, creating habitat structure or cover, or the ability to grow in specific conditions, allowing us to maximise greening.

This page spotlights a selection of the plant species to be used within the Old Quad.



Scabiosa atropurpurea
Sweet Scabious

Height: 0.5 - 1m
Position: Full Sun
Hardiness: H5 (-15 / -10)
Value:
• RHS Plants for Pollinators
• Semi-evergreen foliage



Thymus praecox
Mother of Thyme

Height: 0.1m
Position: Full Sun
Hardiness: H4 (-10 / -5)
Value:
• RHS Plants for Pollinators
• Drought tolerance
• Groundcover
• Evergreen



Cornus kousa
Kousa Dogwood

Height: 4 - 8m
Position: Full Sun / Partial Shade
Hardiness: H6 (-20 / -15)
Value:
• Unusual and attractive flowers and fruit
• Excellent autumn colour



Lavandula angustifolia 'Hidcote'
English Lavender

Height: 0.5 - 1m
Position: Full Sun
Hardiness: H5 (-15 / -10)
Value:
• RHS Plants for Pollinators / AGM
• Evergreen foliage
• Scent



Stipa capillata
Slender Feather Grass

Height: 0.5 - 1m
Position: Full Sun
Hardiness: H5 (-15 / -10)
Value:
• Tufted feathery foliage / wind movement



Stachys byzantina
Lamb's Ear

Height: 0.1 - 0.5m
Position: Full Sun
Hardiness: H7 (< -20)
Value:
• Carpetting groundcover
• Evergreen perennial
• Silver, woolly foliage



Salvia nemorosa
Woodland Sage

Height: 0.5 - 1m
Position: Full Sun / Partial Shade
Hardiness: H7 (< -20)
Value:
• RHS Plants for Pollinators / AGM
• Drought tolerance
• Scent



Catananche caerulea
Cupid's Dart

Height: 0.5 - 1m
Position: Full Sun
Hardiness: H5 (-15 / -10)
Value:
• RHS Plants for Pollinators / Award of Garden Merit



Molinia caerulea
Purple Moor Grass

Height: 0.5 - 1m
Position: Full Sun / Partial Shade
Hardiness: H7 (< -20)
Value:
• Grows in dappled shade
• UK native



Baptisia australis
Blue Wild Indigo

Height: 0.5 - 1m
Position: Full Sun
Hardiness: H7 (< -20)
Value:
• RHS Award for Garden Merit
• Drought tolerance



Valeriana officinalis
Common Valerian

Height: 1 - 1.5m
Position: Full Sun / Partial Shade
Hardiness: H4 (-10 / -5)
Value:
• Grows in dappled shade
• UK native



Fagus sylvatica
Beech (Hedge)

Height: Cut to 0.6m
Position: Full Sun / Partial Shade
Hardiness: H6 (-20 / -15)
Value:
• Semi-formal edge to planting areas
• UK native

Our Plant Choice and Planting Strategy

The Old Quadrangle will be enriched by the planting so that it feels like an oasis and a place to touch nature.

We aim to:

- Create a space with year-round planting interest. This is not a normal academic space, events, students, staff and visitors will occupy the space throughout the year.
- Look to local sourcing where possible.
- Consult with Paul Shaw – Head of Grounds Maintenance and his team on developing the plant list to ensure comfort and confidence in the species being selected.
- Maximise biodiversity credentials - use of rich pollinator friendly species to attract bees, insects, birds and butterflies
- Introduce the concept of semi-formal, low hedges to the planting beds. This creates a low level consistent screen which is appropriate year-round, while giving more scope to include naturalistic planting within the beds. This will create a modern 'parterre' to planting areas, while increasing linear habitat within the space, boosting biodiversity credentials.
- Planting design and specification should be innovative and forward thinking.
- Use drought resilient species that can take drought (but also survive in periods of heavy rain – we are in Manchester!).
- Study aspect and microclimate – map the sun path, shade, frost pockets
- Plant compositions – associations that work together.
- Include for seasonal variety and interest – colours that work together
- Incorporate University of Manchester – branding colours yellow and purple
- Use plants of calming colours such as blues and whites around seating niches, to aid relaxation and contemplation (for pre exam nerves).
- Choose plants that don't grow too high in

- order to maintain sightlines or that don't block views to buildings/entrances and routes
- Use nurseries with sustainable horticulture practices. Trees and plants to be sourced from UK nurseries/UK grown.
 - Avoid or educate nurseries so that single use plastic pots and shrink wrapping for transport are minimised where possible on this project.
 - Specify the requirement for biosecurity certification.
 - Specify for understandable and achievable maintenance - low maintenance / high value

Plant Materials Base Palette

The choice of plants and composition is important. Our landscape schemes take time to come to their full design intent so they also need to be educational for people to understand what it will look like at day one and at year five and at maturity.

Our indicative list of ideas for plants together with the reason why they have been chosen and the benefit they will provide is as follows:

Plant Layers

The Tree / Mid Canopy

Small trees that will complement the existing oaks such as:

- Betula utilis/jacquemontii - The White barked Himalayan Birch that has striking white trunk and is good for providing accents (at entrances and for points of reference)
- Cornus Kousa - The flowering Dogwood will give vertical structure, flowering and autumn colour appeal to the space.

The Lower Layers

Shade – dry shade loving

- Dryopteris wallichiana and Polypodium

vulgar – ferns that grow in dry shady zones providing a lush green background amongst borders

- Salvia nemorosa - the Woodland Sage will bring colour, scent, drought tolerance and pollinator attraction to the scheme.
- Anemone x hybrida 'Honorine Jobert' / Anemone hupehensis 'Splendens' - The Japanese Anemones are whites and pinks flowering in late Summer and tolerant of dry conditions.
- Liriope muscari – Lily Turf a ground cover that grows in dry soils and fills in the gaps.
- Thalictrum aquilegifolium - Meadow Rue are great infillers and give summer feathery accents.
- Geranium macrorrhizum + cultivars – The Geraniums are native, attract pollinating insects are grow in poor or dry soils. They are great to fill in spaces around taller plants.

Sun – loving plants

- Valeriana officinalis - Common Valerian is an upright herbaceous perennial up to 1.5m tall. It holds clusters of pink or white flower at higher level so they can be seen within the middle canopy, floating on slender stalks.
- Nepeta nervosa - The Catnip is a blue flowering herbaceous plant that loves dry soils and provides calming colour amongst the borders.
- Alliums – The ornamental onion family group provided beautiful accents of colour in late Spring and early Summer.
- Erodium manescanii – Herons Bill is a native ground cover that grows in dry soils and provides colour amongst the border
- Sesleria nitida – Tufted Moor Grass is an evergreen grass with feathery tufts that blend well within a composition of flowering herbaceous plants.
- Stachys byzantina – Lambs Ears is a grey foliage plant that grows in dry soils and is a robust plant that can fill the gaps.



Planting design to provide secondary branding and identity to the University



Linear semi-formal hedge habitat enclosing naturalistic planting

