Manchester Metropolitan University - Public Realm, Phase 1A

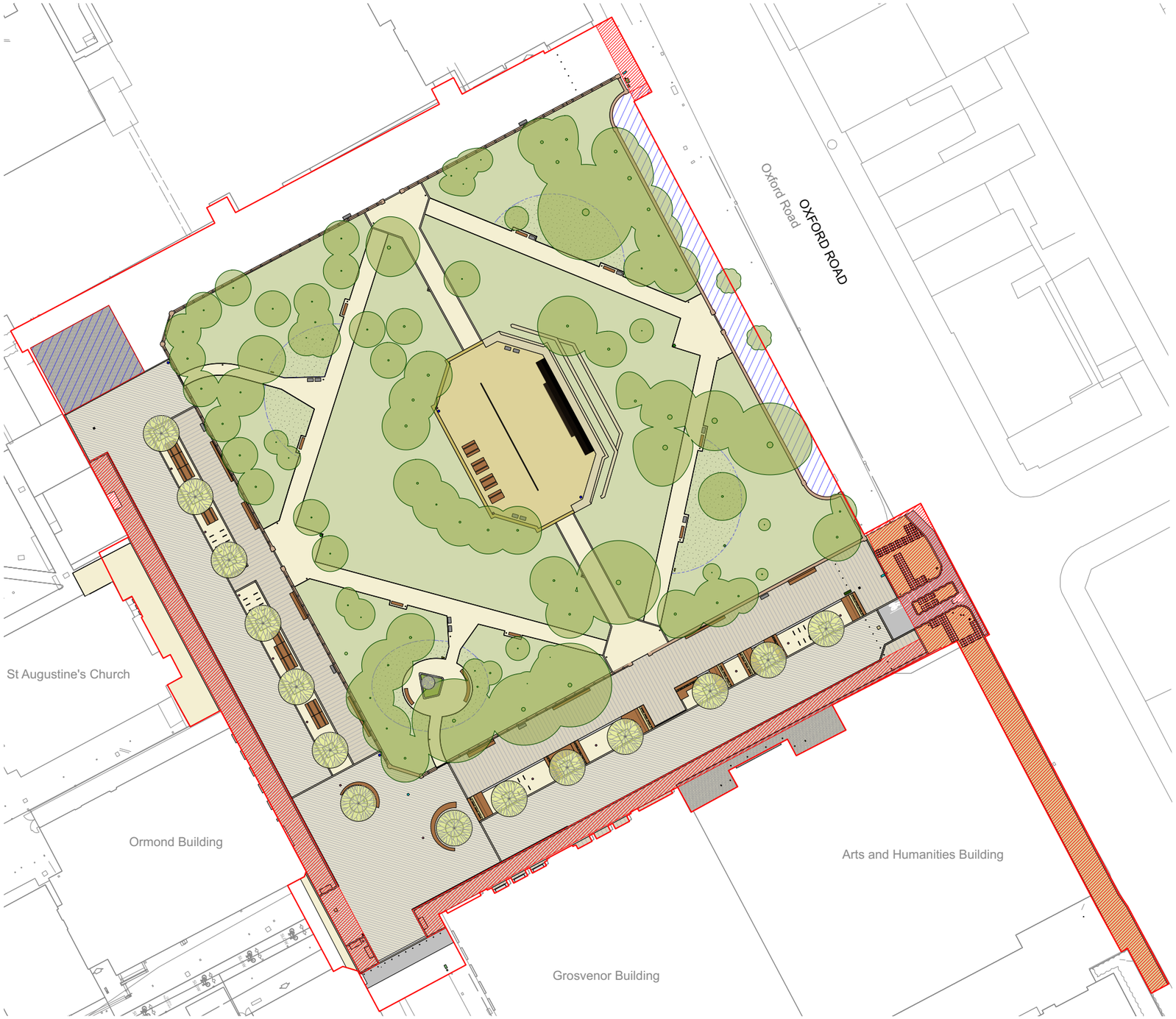
Planning Condition 9 - Landscape Details



All Saints Park - Illustrative visual

Landscape Masterplan

General Arrangement



CONDITION 9

The following documents outlines information for Phase 1A of the MMU campus landscaping proposals. The below information is outlined:

- Hardworks details
- Softworks details
- Tree planting strategy
- Biodiversity enhancements
- Street furniture details
- Cycle parking locations
- Lighting

REFER TO BELOW DRAWINGS IN CONJUNCTION WITH THIS DOCUMENT:

1958-PLA-01A-XX-DR-L-1000-HARDWORKS

1958-PLA-01A-XX-DR-L-1001-KERBS & EDGINGS

1958-PLA-01A-XX-DR-L-2000-SOFTWORKS

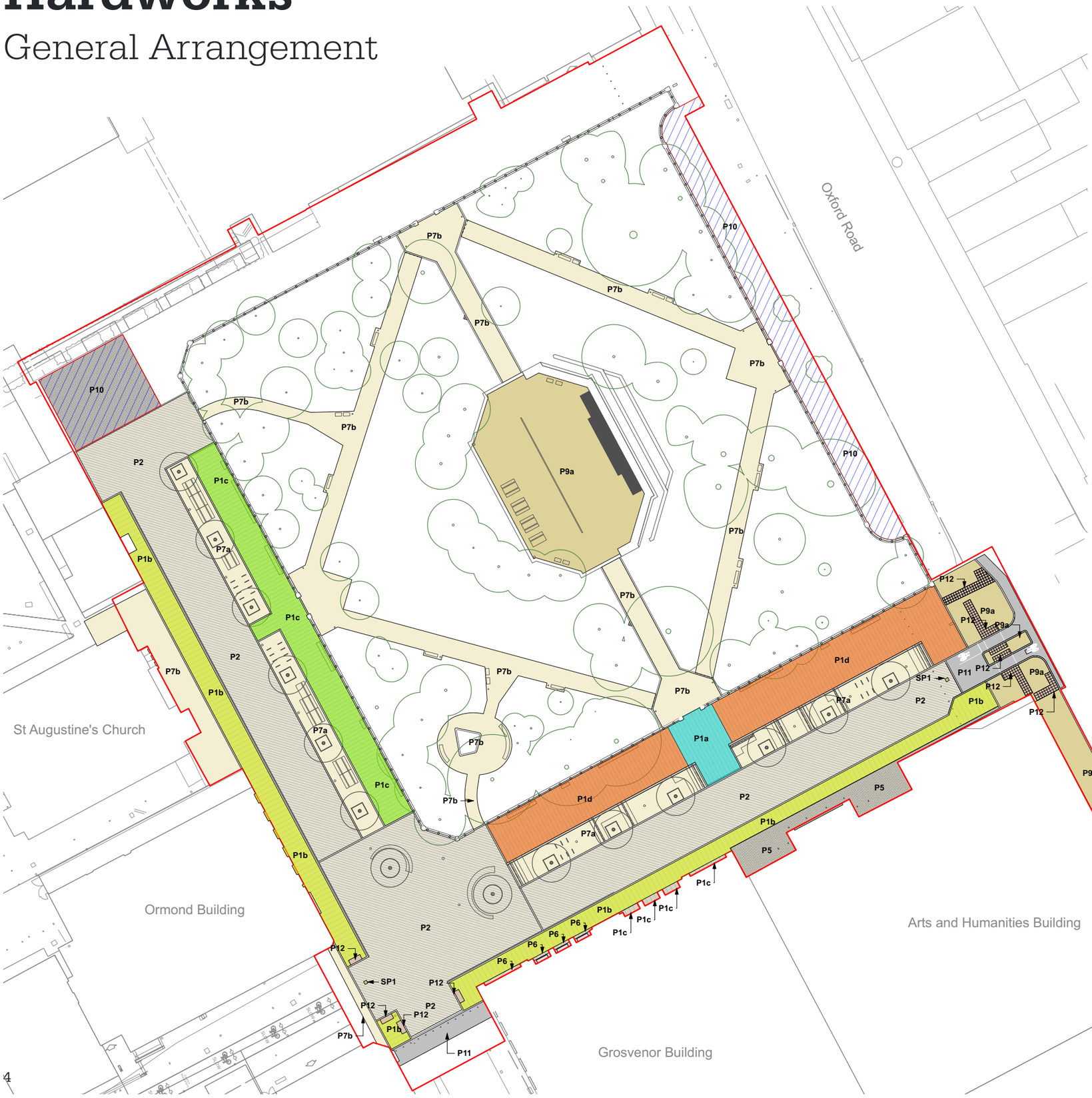
1958-PLA-01A-XX-DR-L-4000-FURNITURE AND LIGHTING

Hardworks

REFER TO DRAWING 1958-PLA-01A-XX-DR-L-1000-HARDWORKS

Hardworks

General Arrangement



P1a — **NATURAL STONE PAVING (category 5)**
- Material: Portuguese Granite
- Mix:
  50% Cathedral (bush hammered),
  50% Figueiredo (bush hammered),
  - Size: W: 250 x L: 500mm x D: 90mm

Depth and build up to engineer's details
- Laid: Stretcher bond
-Supplier: Hardscape Or acceptable equivalent.
To specification clause Q25 310

P1b — **NATURAL STONE PAVING (category 6 on concrete)**
- Material: Portuguese Granite
- Mix:
  50% Cathedral (bush hammered),
  50% Figueiredo (bush hammered),
  - Size: W: 250 x L: 500mm x D: 65mm

Depth and build up to engineer's details
- Laid: Stretcher bond
-Supplier: Hardscape Or acceptable equivalent.
To specification clause Q25 310B

P1c — **NATURAL STONE PAVING (category 4 on concrete)**
- Material: Portuguese Granite
- Mix:
  50% Cathedral (bush hammered),
  50% Figueiredo (bush hammered),
  - Size: W: 250 x L: 500mm x D: 40mm

Depth and build up to engineer's details
- Laid: Stretcher bond
-Supplier: Hardscape Or acceptable equivalent.
To specification clause Q25 310C

P1d — **NATURAL STONE PAVING (category 5 on concrete)**
- Material: Portuguese Granite
- Mix:
  50% Cathedral (bush hammered),
  50% Figueiredo (bush hammered),
  - Size: W: 250 x L: 500mm x D: 70mm

Depth and build up to engineer's details
- Laid: Stretcher bond
-Supplier: Hardscape Or acceptable equivalent.
To specification clause Q25 310D

P2 — **NATURAL STONE PAVING**
- Material: Portuguese Granite
- Mix:
  33% Figueiredo (flamed),
  33% Figueiredo (bush hammered),
  33% Cathedral (bush hammered)
- Size: W: 125 x L: 250 mm x D: 90mm

Depth and build up to engineer's details
- Laid: Stretcher bond
-Supplier: Hardscape Or acceptable equivalent.
To specification clause Q25 330

P5 — **EXISTING YORKSTONE FLAGS**
To be retained, cleaned and made good
- Assumed size: (MCC specification):
600m width x random lengths 600-900mm
- Laid: Stretcher bond

P6 — **YORKSTONE FLAGS - to Grosvenor building edge**
Size: 300mm width x random lengths x 50mm depth
- Laid: Stretcher bond
Depth and build up to engineer's details

P7a — **PERMEABLE RESIN BOUND GRAVEL**
Pedestrian access only (tree pits)
- Product: Natural aggregate paving
- Colour: Norwegian pearl
- Size: Refer to engineer's details for depth
- Supplier: SureSet Or acceptable equivalent.
To specification clause Q23 225

P7b — **PERMEABLE RESIN BOUND GRAVEL**
Vehicular access (paths around park)
- Product: Natural aggregate paving
- Colour: Norwegian pearl
- Size: Refer to engineer's details for depth
- Supplier: SureSet Or acceptable equivalent.
To specification clause Q23 225A

P9a — **RELOCATED YORKSTONE FLAGS**
Existing yorkstone flags to pavements lifted and relaid in new location.
- Assumed size: (MCC specification):
600mm width x random lengths 600-900mm
- Laid: Stretcher bond
Depth and build up to engineer's details

P9b — **PROPOSED YORKSTONE FLAGS**
Proposed yorkstone flags to Oxford Road Pavement
- Assumed size: (MCC specification):
600mm width x random lengths 600-900mm
- Laid: Stretcher bond
Refer to S278 information

P10 — **EXISTING SURFACE RETAINED**

P11 — **HRA SURFACING**
To interface areas - refer to engineer's details.

P12 — **TACTILE PAVING**
To MCC's specification
Size: 400x400mm
Refer to S278 information

SP1 — **SPECIAL SHARDED CYCLE UNIT**
Pavement Signs Specials
Material: Portuguese granite
Colour: Silva Preta venato
Finish: Bush hammered,
signs to be waterjet cut out
Dimensions: 500mm x 510mm x 80mm
to specification clause Q25/322J
Depth and build up to engineer's details
Refer to drawing
1958-PLA-01A-XX-DR-L-5007
To specification clause Q25 310A

Edgings

General Arrangement



E1 NATURAL STONE CHANNEL
- Material: Portuguese Granite
- Colour: Figueiredo (bush hammered),
- Size: W: 200 x L: 1000mm x D: 200mm
- Laid: Flush
Depth TBC by engineer
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing:
1958-PLA-01A-XX-DR-L-5000
To specification clause Q10 120

E2 NATURAL STONE KERB EDGE
- Material: Portuguese Granite
- Colour: Silva Preta venato (bush hammered)
- Size: W: 300 x L: 1000 mm x D: 250mm
Depth TBC by engineer
- Laid: 125mm upstand
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing:
1958-PLA-01A-XX-DR-L-5001
To specification clause Q10 120A

E3 GRANITE PIN KERB EDGING
To outer park paths and Grosvenor building interface
- Colour: Figueiredo (bush hammered),
- Size: W: 50 x L: 1000mm x D: 150mm
- Laid: Flush
Depth TBC by engineer
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing:
1958-PLA-01A-XX-DR-L-5004 and 5008 for radii requirements

E4 NATURAL STONE INTERPRETIVE CHANNEL
To central space in All Saints Park
- Material: Portuguese Granite
- Colour: Silva Preta venato (bush hammered)
- Size: W: 500mm x L: 1000mm x D: 200mm
- Laid: Flush
- To include allowance for Etched and Sand-Blas 'proud' design.
Refer to 1958-PLA-01A-XX-DR-L-5009
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5009
To specification clause Q10 120B

E5 NATURAL STONE RAISED PLANTER EDGE
- Material: Portuguese Granite
- Colour: Silva Preta venato (bush hammered)
- Size: W: 200 x L: 1000 mm x D: 250mm
Depth to be confirmed by engineer
- Laid: 100mm upstand
Refer to 1958-PLA-01A-XX-DR-L-5010
- Supplier: Hardscape Or acceptable equivalent.
Refer to drawing:
1958-PLA-01A-XX-DR-L-5010
To specification clause Q10 120C

E6 MCC CONSERVATION KERB
- MCC specification. Refer to S278 drawings.
To specification clause Q10 112

E7 BISHOPS HAT INTERFACE
To edge interface of 45 degree paving
- Colour: Figueiredo (bush hammered),
- Size: W: 372 x L: 236mm x D: 90mm (with triangular shape)
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing:
1958-PLA-01A-XX-DR-L-5000

E8 EXISTING CONCRETE PIN KERB
To Grosvenor East building edge
To be retained and made good where required

SP1 BISHOPS HAT SPECIAL 1 - Internal corner
To edge interface of 45 degree paving
- Colour: Figueiredo (bush hammered),
- Size: W: 500 x L: 500mm x D: 90mm
10 no square pavers to be ordered to allow corners to be cut to size on site
- Laid: Flush
-Supplier: Hardscape Or acceptable equivalent.

SP2 BISHOPS HAT - External corner
To be cut on site from bishops hat paver

D1 DRAINAGE CHANNEL
- Product: ACO Freestyle
- Material: Cast ductile iron grating
- Type: 'Nest' design, heel safe
- Finish: ATec corrosion resistant coating
- Size: W: 135mm
- Supplier: ACO or acceptable equivalent.
Refer to drawing:
1958-PLA-01A-XX-DR-L-5003
To specification clause Q10 180

D2 DRAINAGE CHANNEL 2
To edge of semi circle infill area
Product: ACO multi drain
Supplier: ACO or acceptable equivalent.
Sump to be placed in location of existing gully. New ACO to extend from each side.

G1 GULLEY
To non adopted areas
- To engineer's specification. Load class D400, heel safe design.
- Material: Cast iron

G2 GULLEY
To adopted areas
To MCC specification. Refer to S278 drawings.

Softworks

REFER TO DRAWING 1958-PLA-01A-XX-DR-L-2000-SOFTWORKS

Softworks

General Arrangement



SOFTWORKS

TREE - EXISTING RETAINED
- Subject to arboricultural management & maintenance works.
Refer to drawing:
1958-PLA-01A-XX-DR-L-0008

TREES - PROPOSED, SEMI MATURE
Refer to softworks schedule

S1

PROPOSED AMENITY TURF
To areas of removed shrub planting.
Supplier: Turfgrass Growers Association (TGA) member, to TGA quality standards or acceptable equivalent.
Seed mixture: 15-30% of fine leaved rye grass and 15% smooth stalked meadowgrass.
Supplier: Professional Lawns
Product ref: Olympic Pro Turf

S2

PROPOSED AMENITY TURF
Existing areas made good where required due to construction works.

S3

PROPOSED WILDFOWER TURF
Product: WFT-Native-Enriched
Supplier: Wildflower Turf or acceptable equivalent
Bespoke species mix to be developed with MMU. Requires 12 week minimum lead in.

S4

PROPOSED PLANTING
Density 14 per m2

TP

TREE CODE
Refer to softworks schedule

Qty	Symbol	Botanical Name	Common Name	Girth (cm)	Height (cm)	Root Type	Habit
2	Tc	Tilia cordata 'greenspire'	Bird Cherry	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
12	Ac	Acer campestre 'Streetwise'	Field Maple	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
1	Pp	Prunus Avium 'Plena'	Almond		400-450	RB	Multi-stem speciment, 4x transplanted, minimum 3 strong stems, umbrella pruned

Softworks

Tree replacement Strategy



Acer campestre ‘Streetwise’



Tilia cordata ‘greenspire’



Prunus avium ‘plena’



PROPOSED TREES

A total of 2 trees will be removed as part of this development. It is proposed that 15 semi mature trees will be planted in the new proposals. The species of these have been determined in discussion with the MMU biodiversity team to maximise the ecological value from whilst finding cultivars that accommodate the city centre environment.

Trees

Qty	Symbol	Botanical Name	Common Name	Girth (cm)	Height (cm)	Root Type	Habit
2	Tc	Tilia cordata ‘greenspire’	Bird Cherry	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
12	Ac	Acer campestre 'Streetwise'	Field Maple	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
1	Pp	Prunus Avium 'Plena'	Almond		400-450	RB	Multi-stem speciment, 4x transplanted, minimum 3 strong stems, umbrella pruned

Softworks

Ongoing Tree Maintenance

MAINTENANCE OPERATION

- **Identification:** Before starting work agree which trees are to be removed or pruned
- **Protection:** Avoid damage to neighbouring trees, plants and buildings
- **Standards:** To BS 3998 and Health & Safety Executive (HSE) 'Forestry and arboriculture safety leaflets'
- **Removing branches:** Cut as shown in Arboricultural Association Leaflet No 8 'Mature tree maintenance'. Cut vertical branches similarly, with no more slope on the cut surface than is necessary to shed rainwater
- **Appearance:** Leave trees with a well balanced natural appearance
- **Chain saw work:** Operatives must hold a Certificate of Competence
- **Tree work:** To be carried out by an approved member of the Arboricultural Association

ADDITIONAL WORK

- Defective, diseased, unsafe or weak parts of trees additional to those scheduled for attention: Give notice if detected.

PREVENTION OF WOUND BLEEDING

- **Standard:** To BS 3998, clause 8.

PREVENTION OF DISEASE TRANSMISSION

- **Standard:** To BS 3998, clause 9 and Appendix B.

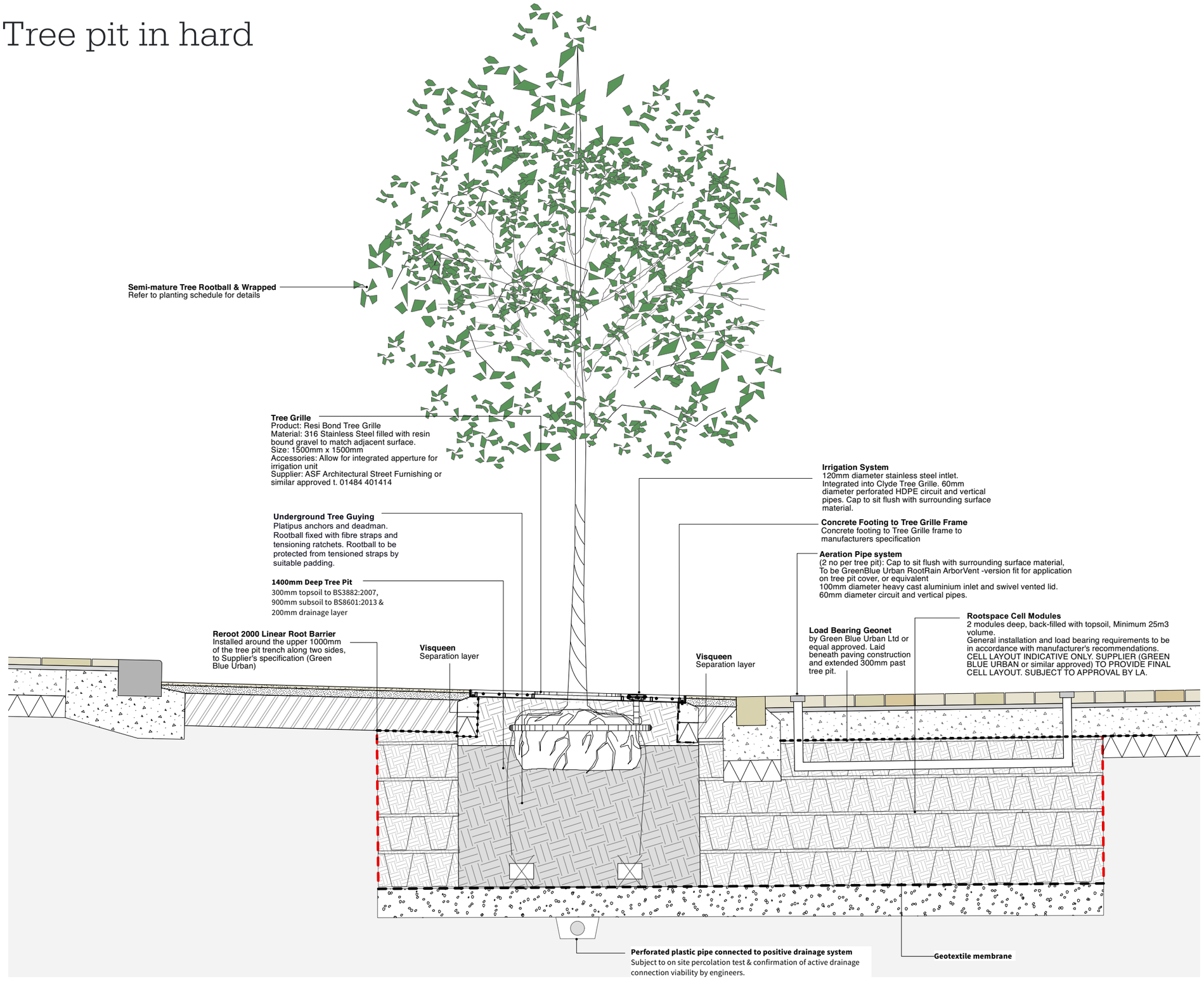
WATER RESTRICTIONS

- **General:** If water supply is, or is likely to be, restricted by emergency legislation, submit proposals for an alternative suitable source of water. Obtain instructions before proceeding.

Maintenance Operation Number	Prescription	Year (s)	Season	Frequency (per year)
	TREE PLANTING			
	Maintenance during defects liability period of 5 years after planting whichever is the greater	1 – 5	As required	2 March - September
	To establish new planting, maintain a 1m diameter weed free area around all trees within grass. Trees within self bound gravel should be maintained totally free of weeds.	1 – 5	Spring - Autumn	1
	UNDERGROUND TREE GUY WIRES			
	Inspection / maintenance times: Quarterly and after strong winds Operations: Replace or re-secure loose or missing guy wires Adjust to suit stem growth and to provide correct and uniform tension	1 – 5	Throughout year	2
	Apply granular fertiliser according to manufacturer's recommendations	1 – 5	Spring - Autumn	Bi-annual
	Ensure trees remain firmly bedded after disturbance and re-firm as necessary	1 – 5	As required	1
	Control all pests and diseases as necessary	1 – 5	As required	To be determined
	Prune in accordance with good horticultural practice, thin, trim and shape as appropriate. Eg. Removing branches: Do not damage or tear the stem. Wounds: Keep as small as possible and cut cleanly back to sound wood. Cutting: Make cuts above and sloping away from an outward facing healthy, angled so that water will not collect on cut area. Larger branches: Prune neither flush nor leaving a stub, but using the branch bark ridge or branch collar as a pruning guide. Tools: Use clean sharp secateurs, handsaws or other approved tools. Disease of infection: Give notice if detected. Growth retardants, fungicide or pruning sealant: Do not use unless instructed			
	Prune all trees annually as needed to maintain a minimum 2.2m clear stem and desired form.	1 – 5	Autumn - early Winter	1 As required
	Watering – Regular checks using a moisture probe testing during the first two years after planting on a monthly cycle during the summer months of May-September	1 – 2	Monthly	24
	Water as necessary to ensure healthy growth	3	As required	As required
	Replace dead or damaged trees to original specification. Remove within 1 month or as soon as possible and replace within the next available planting season	1 - 5	Autumn	1
	Top up mulching to original specification annually	1 - 5	Spring	1
	Autumn LEAF REMOVAL			
	Collect accumulations of drifted leaves from the vicinity and from paved lawn area	1 - 5	Autumn/Winter	As required
	Arisings: Remove			

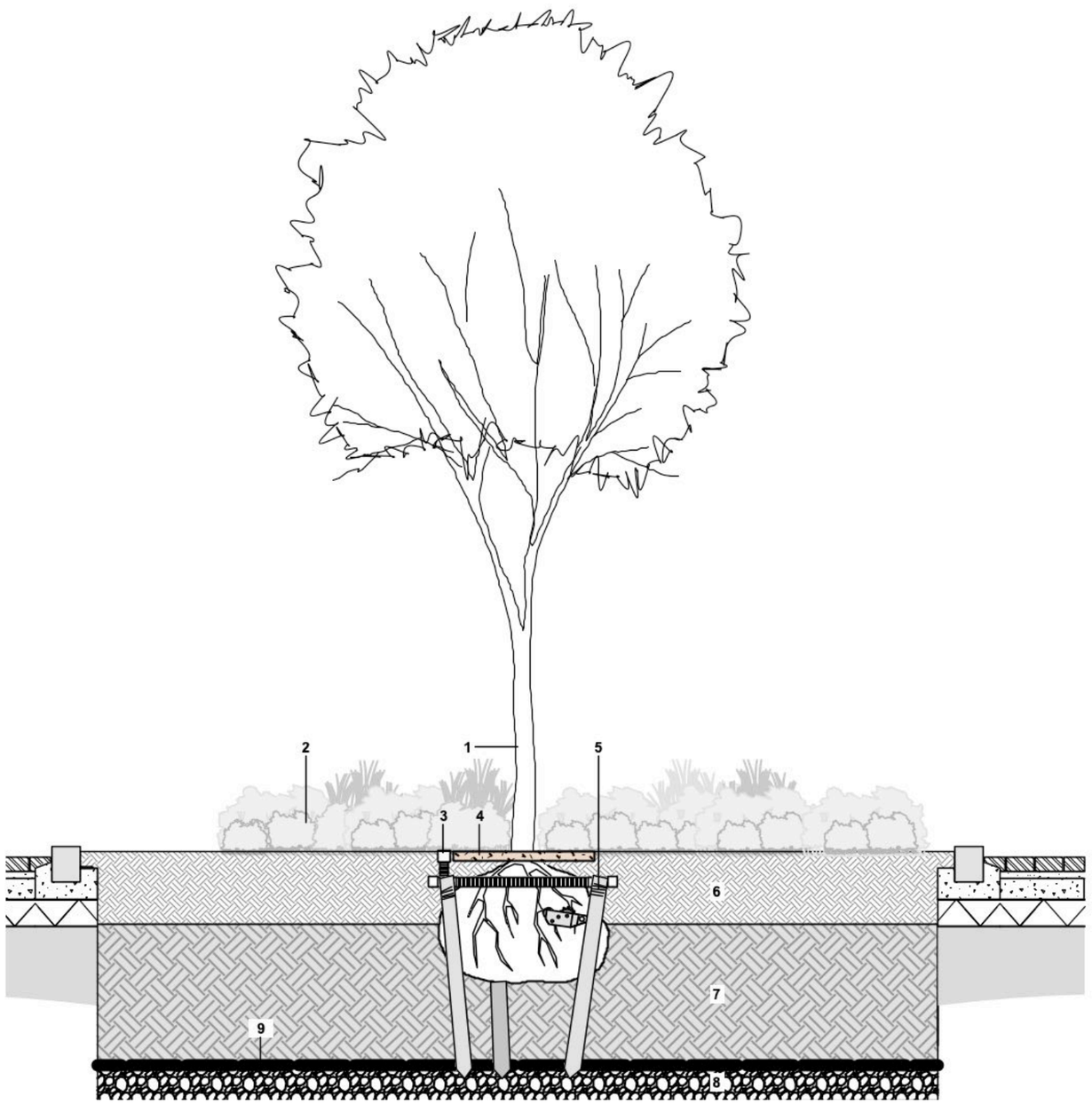
Softworks

Typical Tree pit in hard



Softworks

Typical Tree pit in soft



1. **Semi-Mature Tree Rootball & Wrapped**
Refer to Softworks Plan 1958-PLA-01A-XX-DR-L-2000

2. **Ornamental Shrub and Herbaceous Planting**
Refer to Softworks Plan 1958-PLA-01A-XX-DR-L-2000

3. **Irrigation / Aeration System**
RootRain Urban
Large capacity irrigation system with 80mm fixed non-removable grid inlet. Length: 5m
60mm diameter circuit and vertical pipes.

4. **75mm Bark Mulch Layer**
Bark mulch to base of trees. 800mm diameter circle from base in all directions.

5. **Triple staked tree anchoring**
75mm diam. treated softwood stakes driven firmly into base of tree pit by min. 300mm, rootball fixed with fibre straps and tensioning ratchets. Rootball to be protected from tensioned straps by suitable padding

6. **Imported Topsoil**
Top half of tree pit filled with imported topsoil to 300mm minimum depth. To BS3882:2015

7. **Imported Subsoil**
Bottom half of tree pit filled with imported subsoil to 600mm depth. To BS8601:2013

8. **Drainage Layer**
200mm clean stone.
Base of tree pit trench loosened and shaped as shown to aid root penetration and pit drainage

9. **ReRoot 2000 Linear Root Barrier**
Installed around sides of the tree pit trench as indicted on drawing
Depth: 1500mm
Supplier to advise on thickness requirement & specification (Green Blue Urban)

10. **Geotextile**
Terram 2000 Membrane to base of tree pit, above drainage layer.

Softworks

Biodiversity enhancements - wildflowers

WILDFLOWER TURF

Large areas of wildflower turf planting are proposed within All Saints Park to improve the biodiversity of species and provide a much needed source of food for bees, butterflies and other pollinators. Information posts will be provided as an educational resource to explain the benefits of the planting and outline key species to look out for.

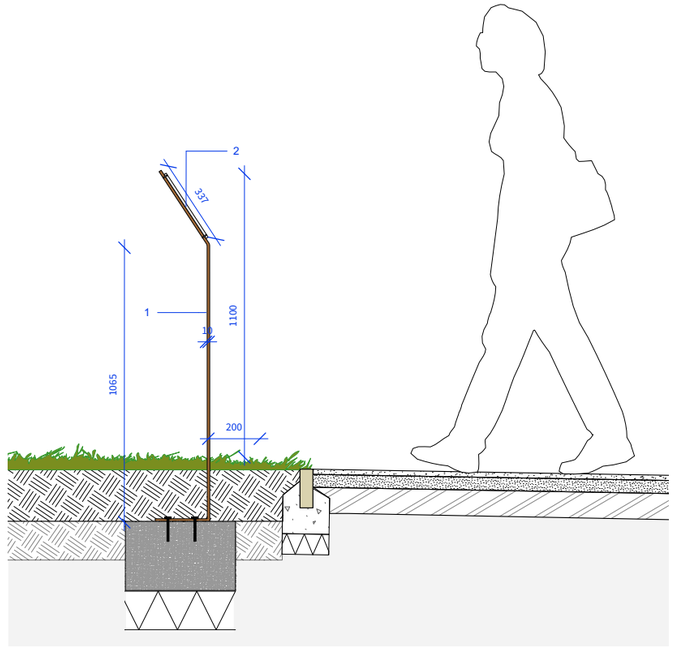


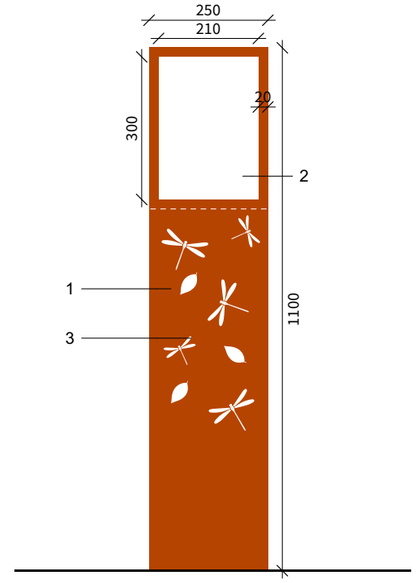
PROPOSED SPECIES MIX:

Flora:			
Autumn Hawkbit (Scorzoneroides autumnalis) *(P)*	Betony (Stachys officinalis) *(P)*	Birdsfoot Trefoil (Lotus corniculatus) *(P)*	Bladder Campion (Silene vulgaris) *(P)*
Cats Ear (Hypochoeris radicata) *(P)*	Common Knapweed (Centaurea nigra) *(P)*	Common Toadflax (Linaria vulgaris) *(P)*	Common Vetch (Vicia sativa ssp. segetalis) *(A)*
Cowslip (Primula veris) *(A)*	Field Scabious (Knautia arvensis) *(P)*	Kidney Vetch (Anthyllis vulneraria) *(P)*	Lady's Bedstraw (Galium verum) *(P)*
Meadow Buttercup (Ranunculus acris) *(P)*	Meadow Cranesbill (Geranium pratense) *(P)*	Meadowsweet (Filipendula ulmaria) *(P)*	Musk Mallow (Malva moschata) *(P)*
Ox Eye Daisy (Leucanthemum vulgare) *(P)*	Perforate St Johns Wort (Hypericum perforatum) *(P)*	Ragged Robin (Lychnis flos-cuculi) *(P)*	Red Campion (Silene dioica) *(P)*
Rough Hawkbit (Leontodon hispidus) *(P)*	Salad Burnet (Sanguisorba minor) *(P)*	Self-heal (Prunella vulgaris) *(P)*	Strawberry Clover (Trifolium fragiferum) *(P)*
Tufted Vetch (Vicia cracca) *(P)*	Viper's Bugloss (Echium vulgare) *(BI)*	White Campion (Silene latifolia) *(SLP)*	Wild Carrot (Daucus carota) *(P)*
Wild Marjoram (Origanum vulgare) *(P)*	Yarrow (Achillea millefolium) *(P)*	Yellow Rattle (Rhinanthus minor) *(A)*	
Naturalised flowers:			
Alpine Forget-me-not (Myosotis alpestris) *(P)*	Alpine Rock Cress (Arabis alpine) *(P)*	Baby's breath (Gypsophila elegans) *(A)*	Black Medic (Medicago lupulina) *(P)*
Blue flax (Linum perenne) *(P)*	Borage (Borage officinalis) *(A)*	Common Columbine (Aquilegia vulgaris) *(P)*	Common Corncockle (Agrostemma githago) *(A)*
Common Poppy (Papaver rhoeas) *(A)*	Cornflower (Centaurea cyanus) *(A)*	Crimson Clover (Trifolium incarnatum) *(A)*	Everlasting Flower 'Orange' (Xerochrysum bracteatum) *(A)*
Feathered Pink (Dianthus plumarius) *(P)*	Fenugreek (Trigonella foenum-graecum) *(A)*	Garden Candytuft (Iberis umbellata) *(A)*	Honesty (Lunaria annua) *(A)*
Horned Pansy (Viola cornuta) *(P)*	Kidney Vetch (Anthyllis vulneraria) *(P)*	Nodding Catchfly Campion (Silene pendula) *(A)*	Red Flax (Linum annum) *(A)*
Sainfoin (Onobrychis vicifolia) *(P)*	Siberian wallflower (Cheiranthus allionii) *(BI/SLP)*	Sweet William (Dianthus barbatus) *(BI)*	White Melilot (Melilotus albus) *(BI)*

S3

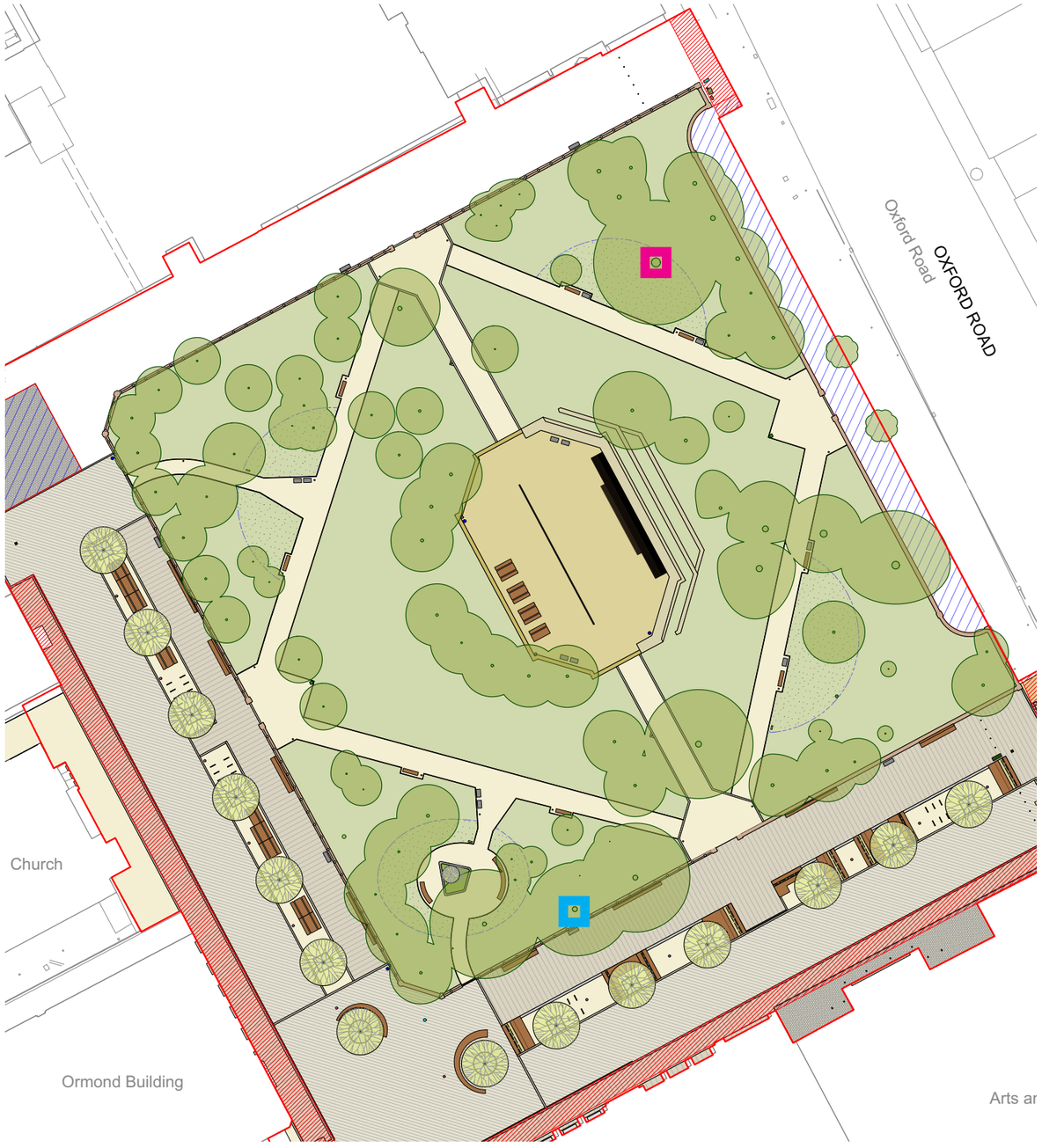
PROPOSED WILDFOWER TURF
Product: WFT-Native-Enriched
Supplier: Wildflower Turf or acceptable equivalent
Bespoke species mix to be developed with MMU. Requires 12 week minimum lead in.





Softworks

Biodiversity enhancements - Bat and bird boxes



PROPOSED BAT AND BIRD BOXES:



Nest Box 1B
Material: SCHWEGLER Wood-Concrete Nest Box. Hanger: steel, galvanised.
External Dimensions: W 17 x H 26 x D 18 cm.
Internal Diameter: 12 cm.
Weight: approx. 3.6 kg.
Includes: Nest box, hanger and aluminium nail.



Bat Box 2F
Material: SCHWEGLER Wood-Concrete Nest Box. Hanger: steel, galvanised.
Fixing: To be installed in a tree minimum height 3 to 4 metres.
External Dimensions: 16 cm.
Hight: 33 cm.
Weight: approx. 3.8 kg.
Includes: Nest box, hanger and aluminium nail.

Street Furniture

REFER TO DRAWING 1958-PLA-01A-XX-DR-L-4000-FURNITURE AND LIGHTING

Furniture GA



The following pages provide details of the furniture elements outlined below:

S1 — **TREE SURROUND BENCHES**
to Cavendish Street
- Material: FSC certified 'Cumaru' hardwood timber galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
- Supplied: Woodscape or acceptable equivalent

S2a — **WALL EDGE BENCH - HIGH BACK**
to outside edge of All Saints Park Wall
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Refer to drawing:
1958-PLA-01A-XX-DR-L-7003
To specification clause Q50 220

S2b — **WALL EDGE BENCH - LOW BACK**
to outside edge of All Saints Park Wall
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Refer to drawing: 1958-PLA-01A-XX-DR-L-7003
To specification clause Q50 220A

S3 — **PLATFORM BENCH**
to centre of All Saints Park
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Supplier: Woodscape or similar approved
Refer to drawings: 1958-PLA-01A-XX-DR-L-7004
To specification clause Q50 226

S4 — **WORK BENCHES AND TABLES**
to Lower Ormond Street
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Overall dimension of bench:
Table - 2500mm(L) x 1080mm(W) x 755mm (H)
Benches - 2500mm(L) x 440mm(W) x 480mm (H)
Method of fixing: [Surface pinned into concrete foundation].
Refer to drawings: 1958-PLA-01A-XX-DR-L-7005
To specification clause Q50 230

S5 — **FEATURE CIRCULAR BENCH**
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame and legs, powder coated.
Colour - Futura Mars 2525 Sable YX355F.
Accessories:
L shaped backrest.
Finish: Natural
Folded stainless steel armrest (allow for 2 no.)
Hot dip galvanised and powder coated bench footing. Tamper proof and
counter sunk fixings to match frame
Refer to drawings: 1958-PLA-01A-XX-DR-L-7007
To specification clause Q50 225A

S6 — **PARK BENCH**
- Material : FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame and legs, powder coated.
Folded powder coated steel armrest (allow for 3 no.)
Hot dip galvanised and powder coated bench footing.
Colour - Futura Mars 2525 Sable YX355F.
Tamper proof and counter sunk fixings to match frame.
Overall dimension of bench: Varies - refer to furniture plan
Method of fixing: [Surface pinned into concrete foundation].
Refer to drawings: 1958-PLA-01A-XX-DR-L-7006
To specification clause Q50 225

S7 — **MEMORIAL GARDEN BENCHES**
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Accessories:
L shaped backrest.
Folded stainless steel armrest (allow for 2 no.)
Hot dip galvanised and powder coated bench footing. RAL colour TBC. Tamper proof and counter sunk fixings to match frame.
Refer to drawings:
1958-PLA-01A-XX-DR-L-7006
To specification clause Q50 225B

S8 — **CYCLE STANDS**
- Product reference: Sheffield Cycle Stand
- Material: Stainless Steel
- Finish: Stainless Steel, Grade 316 Satin
- Size: 750mmH x 750mmW
- Fixing: Root Fixed in concrete below ground to Engineer's specification
To specification clause Q50 210

S9 — **FIXED BOLLARD**
- Product: 114 1000 Static Bollard
- Finish: Brushed stainless steel
- Size: 114mm diameter, 1000mm above ground
- Supplier: ATG access or equal and approved.
Root fixed to engineer's details
To specification clause Q50 190

S10 — **DROP BOLLARD**
- Product: 114 1000 Semi-Automatic Bollard
- Finish: Brushed stainless steel
- Size: 114mm diameter, 1000mm above ground. 1550mm foundation depth.
- Supplier: ATG access or equal and approved.
To specification clause Q50 192

S10b — **AUTOMATIC DROP BOLLARD**
- VP200 automatic bollard
- Material - stainless steel
- 900mm above ground.
- Supplier: ATG access or equal and approved.
To specification clause Q50 192A

S11a — **PROPOSED BIN TYPE A**
Cumaru timber clad double bin with Man Met branding to sides. Artwork to bin openings removable to allow for change of waste streams. 2 x standard rectangular apertures.
Size: H: 945 x W:1000 x D: 540 mm (approximate depending on supplier)

S11b — **PRPOSED BIN TYPE B**
Powder coated, galv steel quad bin with Man Met branding to front. Artwork to bin openings removable to allow for change of waste streams. 4 x standard rectangular apertures.
Size: H: 870 x W:1403 x D: 471 mm (approximate depending on supplier)

S14a — **WAYFINDING TOTEM - GATEWAY**
Power and data to be provided.
Refer to placemarques's specification and drawings.
Sign type: Large node - gateway

S14c — **WAYFINDING TOTEM - FINGER POST**
Refer to placemarques's specification and drawings.
Sign type: Fingerpost

S14d — **WAYFINDING TOTEM - DIGITAL MONOLITH**
Refer to placemarques's specification and drawings.
Sign type: Digital Monolith - Double Sided

S16a — **TREE GRILLE TYPE 1**
- Product: Resi Bond Tree Grille
Material: 316 Stainless Steel
Size: 2000mm x 2000mm
Accessories: Allow for integrated aperture for irrigation unit
Supplier: ASF Architectural Street Furnishing or similar approved t. 01484 401414
To specification clause Q10 305

S16b — **TREE GRILLE TYPE 2**
- Product: Laser Cut Tree Grille
Material: 316 Stainless Steel
Size: 3000mm diameter
Accessories: Allow for integrated appertures for irrigation unit and uplighter
To include structural steel frame and bespoke laser cut design (subject to further detail design).
Supplier: ASF Architectural Street Furnishing or similar approved t. 01484 401414
To specification clause Q10 305A

S16c — **TREE GRILLE TYPE 3**
- Product: Laser Cut Tree Grille
Material: 316 Stainless Steel
Size: 3000 x 1200mm
Accessories: Allow for integrated appertures for irrigation unit
To include structural steel frame and bespoke laser cut design (subject to further detail design).
Supplier: ASF Architectural Street Furnishing or similar approved t. 01484 401414
To specification clause Q10 305B

S18 — **RELOCATED LIGHTS AND CONTROL FOR CYCLIST CROSSING**

S19 — **CYCLE CROSSING SIGN**
To match existing signs on Oxford road cycle crossings

S20 — **EXISTING TRAFFIC INFRASTRUCTURE**

S21 — **INTERPRETATION SIGNS**
Material: Corten steel. 10mm thick.
Finish: Pre-weathered and sealed
Mechanically fixed to concrete foundation.
Alowance for perforations laser cut within steel sheet.
Made from single bent sheet.
Finish: Pre-weathered and sealed
S21A -
Refer to drawing: 1958-PLA-01A-XX-DR-L-7025
To specification clause Q50 340A
S21B -
Refer to drawing: 1958-PLA-01A-XX-DR-L-7026
To specification clause Q50 340B

S22 — **NEW GALVIANISED STEEL ENTRANCE GATE TO PARK**
Refer to **1958-PLA-01A-XX-DR-L-7023** for further details. Powder coated to match existing railings of park.
To specification clause Q40 580

S23 — **NEW SECTION OF SANDSTONE WALL & WROUGHT IRON RAILING**
- To match existing sandstone boundary wall and railings of All Saints Park.
Railings - To specification clause Q40 370
Wall - To specification clause F21 119

S24 — **RELOCATED SANDSTONE PILLAR**
Existing pillar moved to new corner location of boundary wall. Foundations to engineer's details.

S25 — **RETAINED PARK SIGNAGE**
Existing sign retained in same location. Stone pillar to sign to be jet washed clean.

S26 — **RETAINED PHONE BOX**

S27 — **STAINLESS STEEL HANDRAILS**
To All Saints Library steps
To specification clause L37 150

E1 — **FEEDER PILLAR**
Refer to M&E engineer's details and specification

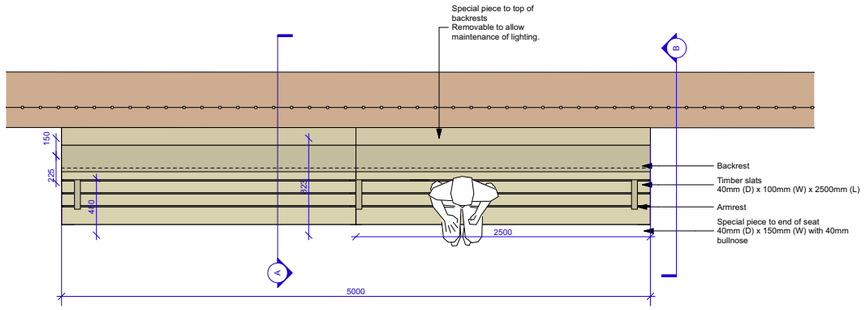
E2 — **RELOCATED CONTROL BOXES**
Refer to S278 drawings

E3 — **POWER POINTS**
Refer to M&E engineer's details and specification

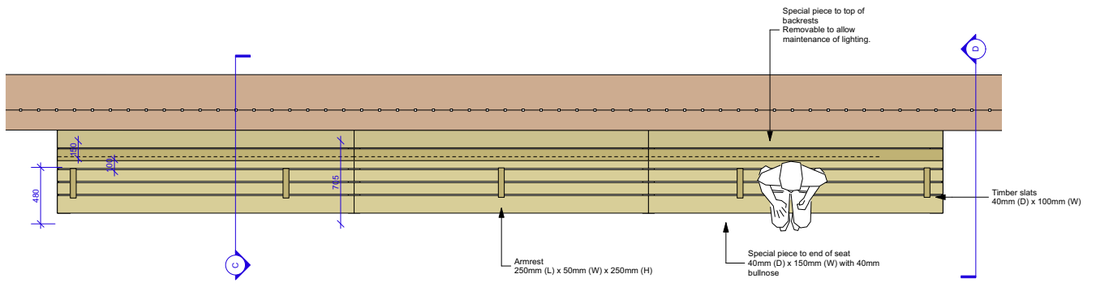
E7 — **AUTOMATIC BOLLARD INTERCOM CONTROL**
Refer to M&E engineer's details and specification

DESIGN INTENT ONLY

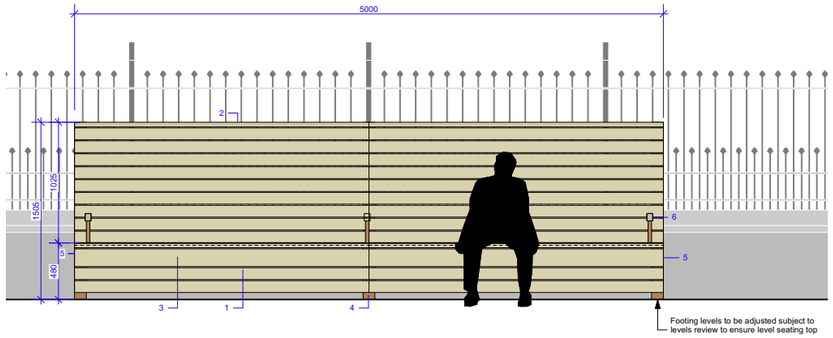
Foundations to engineers specification. subject to approval of manufacturers drawings, all measurements to be checked on site prior to ordering and fabrication.



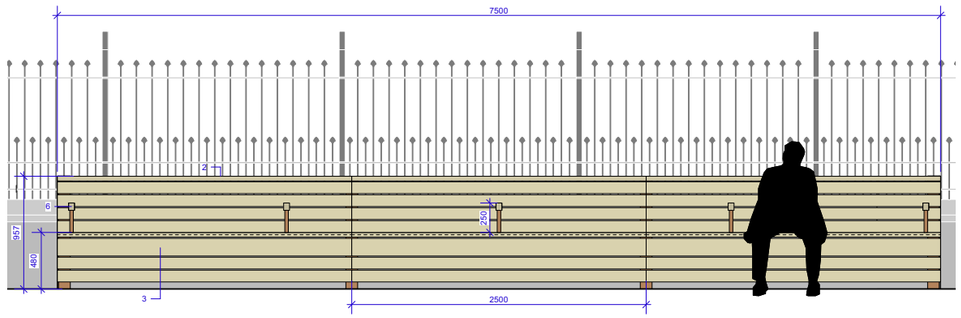
01 Wall Bench Type S2a - Plan View
1:50



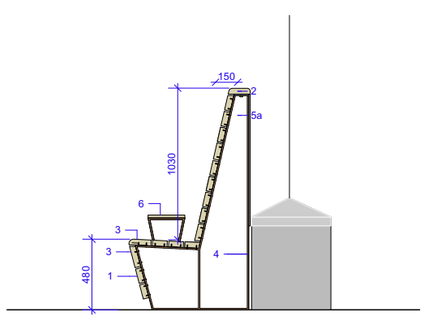
03 Wall Bench Type S2b - Plan View
1:50



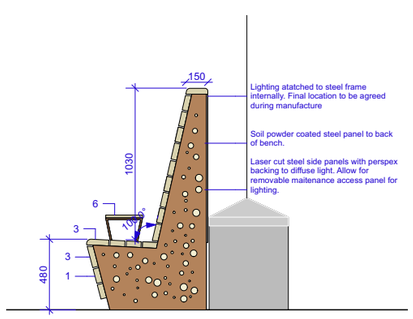
02 Wall Bench Type S2a - Front Elevation
1:50



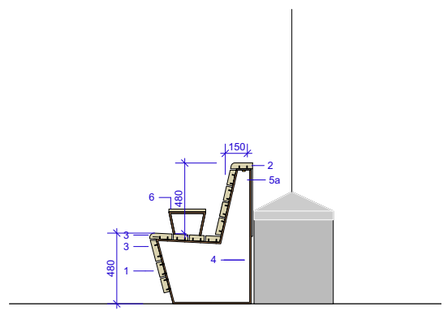
04 Wall Bench Type S2b - Front Elevation
1:50



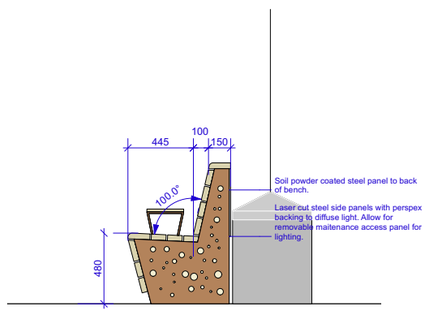
05 Type S2a - Section A-A'
1:50



06 Type S2a End Profile B-B'
1:50



07 Type S2b - Section C-C'
1:50



08 Type S2b - End Profile D-D'
1:50

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5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

LOCATION PLAN



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY

Refer to specification clause Q50 220 and 220A

1. Central timber slats
Dimensions - 40mm (D) x 100mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

2. Bespoke solid timber pieces to top of backrests
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Supplier: Bailey Street Furniture group or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

4. Steel frame - hot dipped galvanised powder coated steel frame
Dimensions - Subject to manufacturers details.
Mechanically fixed to concrete foundations underneath surfacing.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Frame to allow for perforations filled with translucent perspex sheet to diffuse internal lighting

5. Solid end panel - powder coated steel with laser cut outs
Dimensions - Subject to manufacturers details. Laser cut design.
Panel to have inner perspex sheet behind steel to diffuse light.
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable for cleaning purposes beneath bench.

6. Armrests
Folded hot dip galvanised powder coated steel with FSC hardwood certified timber top.
Mechanically fixed to steel frame.
Colour: Mars 2525 Sable Product Code: YX355F
Steel support to to be inlayed into timber top.

7. Accessories
Allowance for stainless steel anti-skate find to front face of bench.

Type S2a - 3 no.
Type S2b - 6 no.

Benches mechanically fixed to concrete slab under paving to engineers details

Revision	Date	Description	Drawn	Apprvd.
S4-P07	11-06-24	Final Construction	SAB	LH

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Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

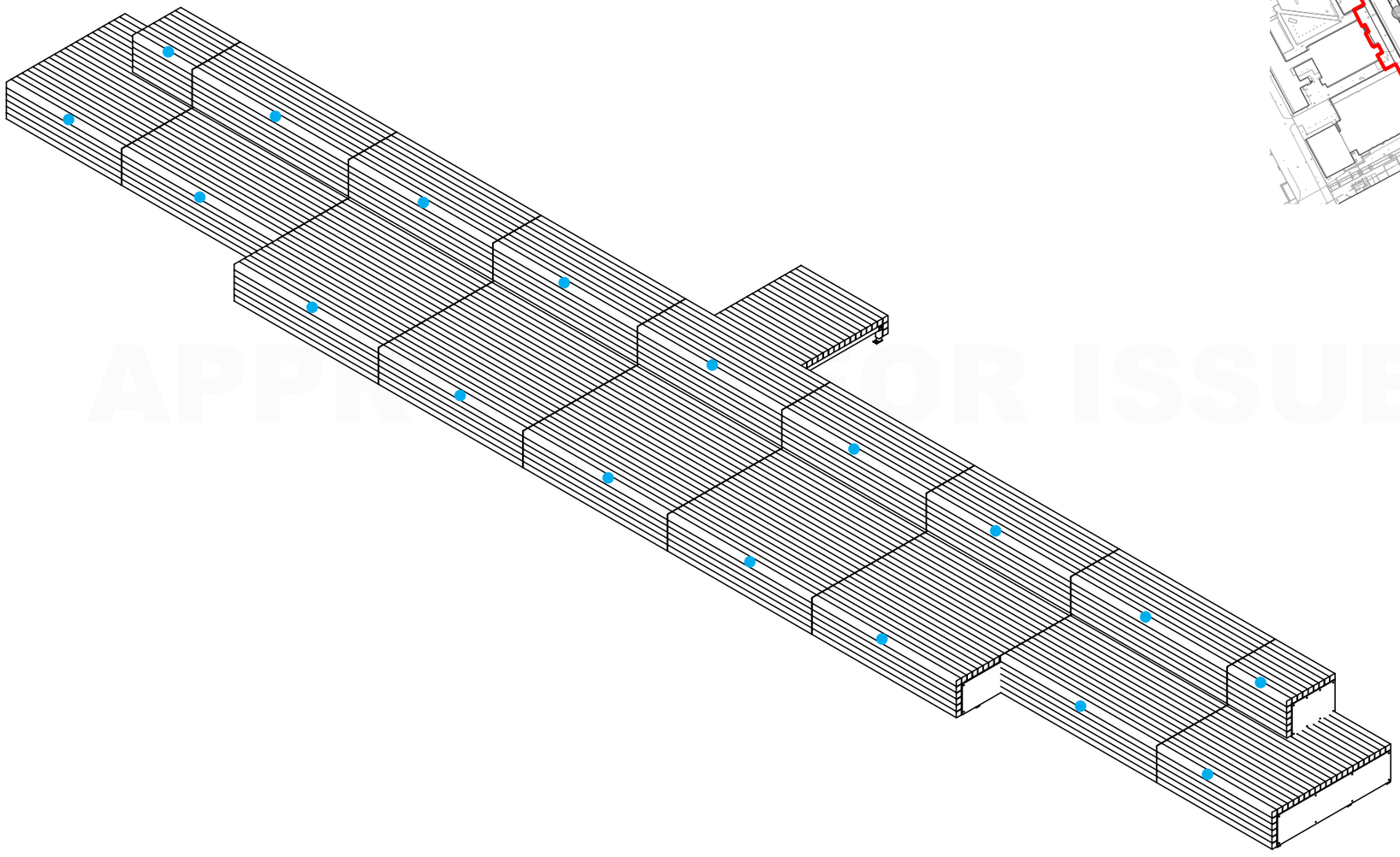
Drg Title: Seating Details - Wall Edge Bench Phase 1A

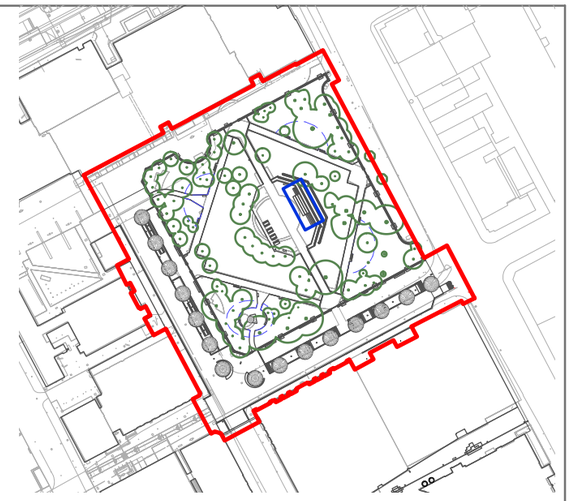
Created on	Created by	Approved by
03.03.20	SR	SAB

Scale	Size	Workstage
As Shown	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7003	S4	P06

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APPROVED FOR ISSUE

PRODUCT OVERVIEW:

PODIUM SEATING 5141

bailey street furniture group

Adlington Business Park, London Road, Adlington, Cheshire, SK10 4NL
Tel: 01625 322 888 | enquiries@bsfg.co.uk

BSFG Doc. NUMBER:	Doc. TYPE	SHEET:	SCALE:	DRW:	DATE:
BSSGA3207-1_0	GA	SHEET 1 OF 2	1:50 @A3	OS	25/07/2023

BSFG Doc. TITLE: PRODUCT OVERVIEW - PODIUM SEATING 5141	**CHK:** BW	**DATE:** 27/07/2023
PART NUMBER: PODIUM SEATING 5141	**APP:** JF	**DATE:** 27/07/2023
PART CONFIGURATION: na	**BSFG Doc. STATUS:** APPROVED FOR ISSUE	
BSFG JOB NUMBER: 5141	3rd ANGLE PROJECTION	DO NOT SCALE FROM DRAWING DIMENSIONS IN mm UNLESS STATED OTHERWISE
	BSFG Doc. REV: 0	

REVISIONS

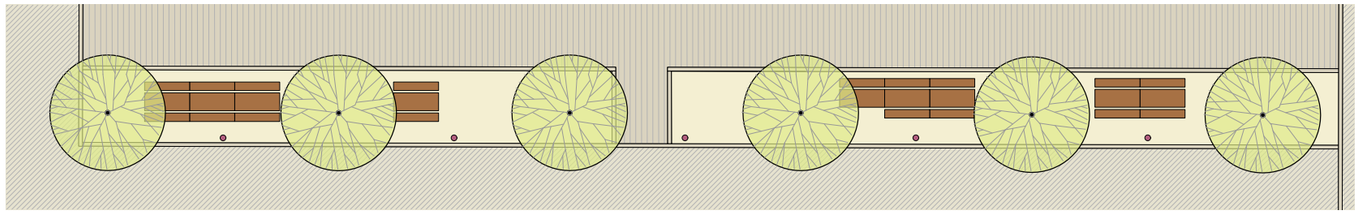
REV.	BY	DESCRIPTION	DATE	CHKD	APVD

● **Anti-skate stud locations**

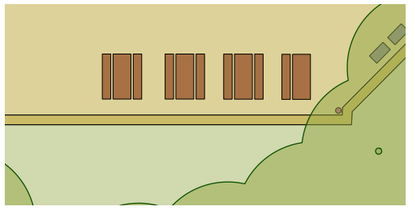
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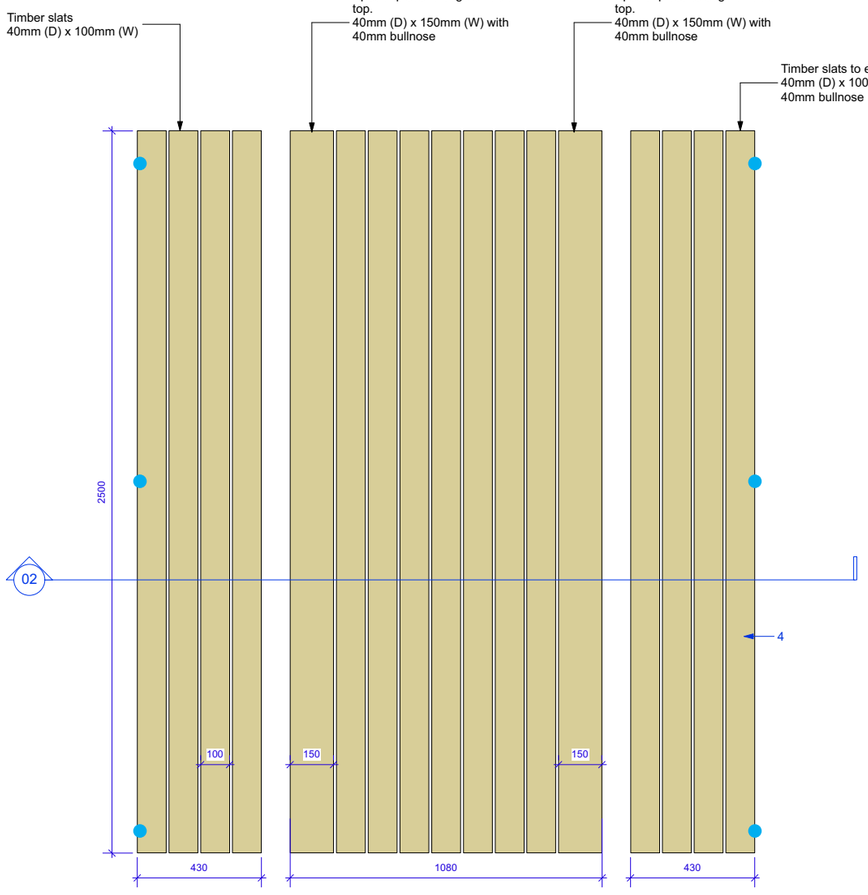
Foundations to engineers specification.
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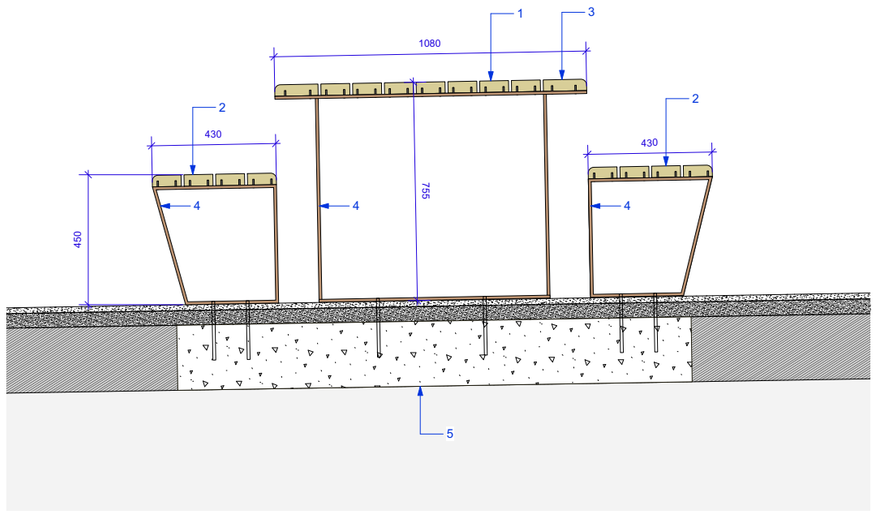
04 Work benches - Lower Ormond Street
Scale: 1:150



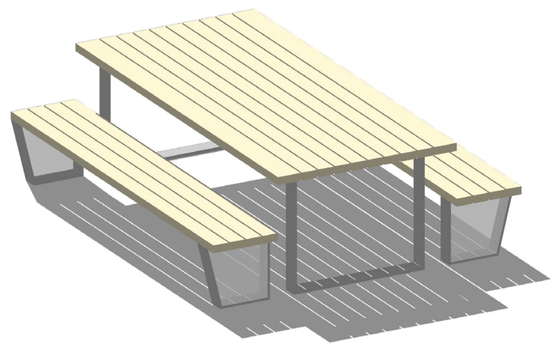
05 Work benches - All Saints Park
Scale: 1:150



01 Work Bench - Plan
Scale: 1:10



02 Work bench - section
Scale: 1:10

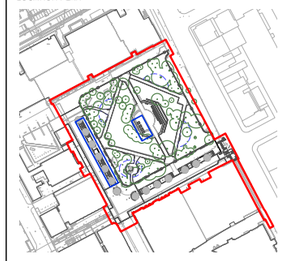


03 Work Bench - Axonometric
NTS

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5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

LOCATION PLAN



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 230

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

2. Timber slats to edge of seat
Dimensions - 40mm (D) x 100 mm (W) with 40mm bullnose x 2500mm (L)
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

3. Timber end pieces to table top
Dimensions - 40mm (D) x 150 mm (W) with 40mm bullnose x 2500mm (L)
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

All timber to be finished with clear Osmo UV Protection Oil

4. Steel frame - hot dipped galvanised steel frame, powder coated
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details.
Colour: Futura Mars 2525 Sable [YX355F]
Mechanically fixed to concrete foundations. Fixings to engineer's specification.

Mechanically fixed to concrete foundations under surfacing to engineers specification

Anti-skate stud locations

Revision	Date	Description	Drawn	Apprvd.
S4-P05	11-06-24	Final Construction	SAB	LH

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Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
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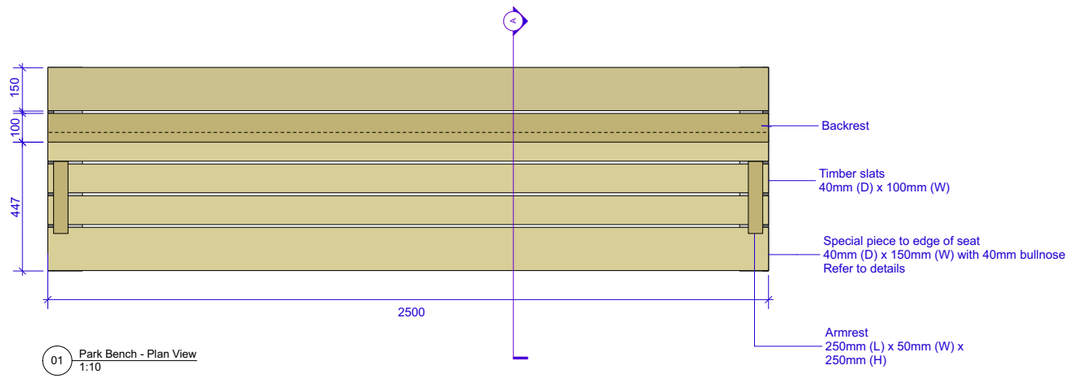
Client	Manchester Metropolitan University
Project	MMU Landscape Masterplan, Manchester
Drg Title	Seating Details - Work Bench Phase 1A

Created on	Created by	Approved by
03.03.20	SR	SAB

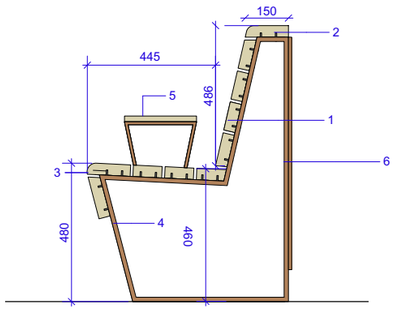
Scale	Size	Workstage
VARIES	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7005	S4	P05

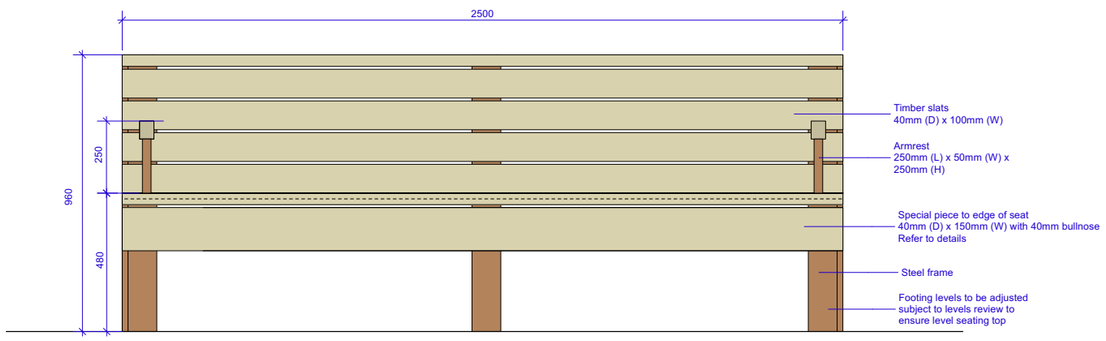
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01 Park Bench - Plan View
1:10



02 Park Bench - Section A
1:10



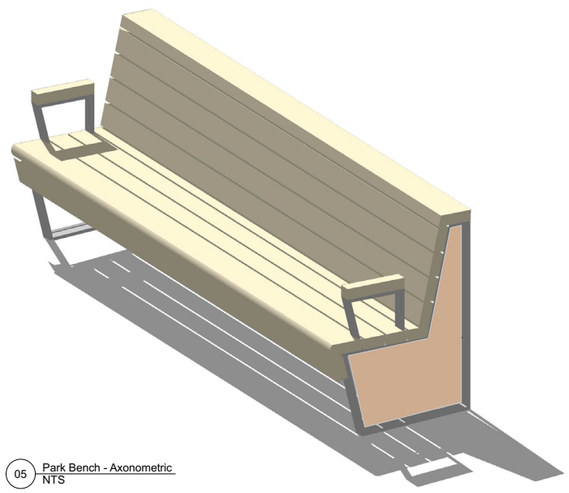
03 Park Bench - Elevation
1:10

DESIGN INTENT ONLY

Foundations to engineers specification.
subject to approval of manufacturers drawings, all measurements to be checked on site prior to ordering and fabrication.



LOCATION PLAN (scale 1:1000)



05 Park Bench - Axonometric
NTS

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6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 225

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood certified Cumaru timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

2. Bespoke timber end pieces to top of backrests
Sizes vary - refer to drawing
Material: FSC hardwood certified Cumaru timber
Supplier: Woodscape or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

All timber to be finished with clear Osmo UV Protection Oil

4. Steel frame - hot dipped galvanised powder coated steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details.
Mechanically fixed to concrete foundations. Fixings to engineer's specification.

5. Armrests
Folded hot dip galvanised powder coated steel with FSC hardwood certified timber top. Mechanically fixed to steel frame.
Steel support to to be inlayed into timber top.

6. Steel end and back panels
Allowance for powder coated steel end and back panel to bench with a bespoke perforated pattern subject to detailed design.

7. Accessories
Allowance for stainless steel anti-skate find to front face of bench.
1 no. per bench

All metal work to be powder coated in -
Colour: Mars 2525 Sable Product Code: YX355F

Concrete pad foundations to engineers specification

Revision	Date	Description	Drawn	Apprvd.
S4-P05	11-06-24	Final Construction	SAB	LH

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Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

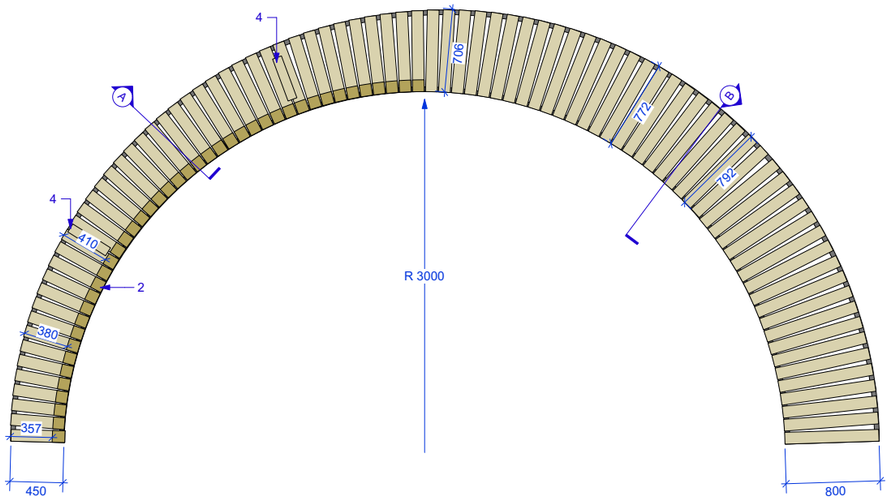
Drg Title: Seating Details - Park Bench Phase 1A

Created on	Created by	Approved by
03.03.20	SR	SAB

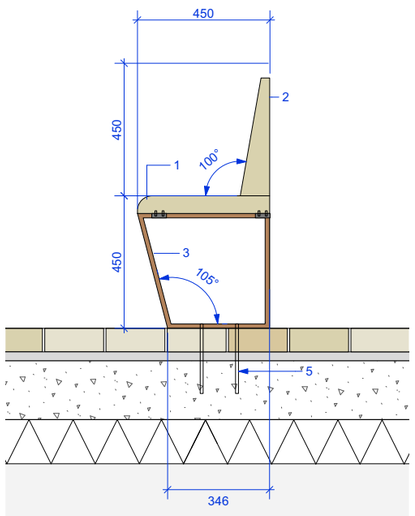
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As Shown	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7006	S4	P05

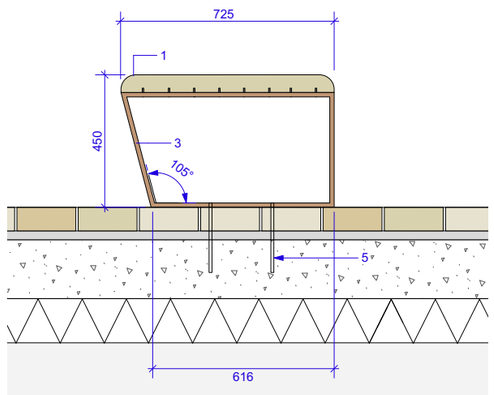
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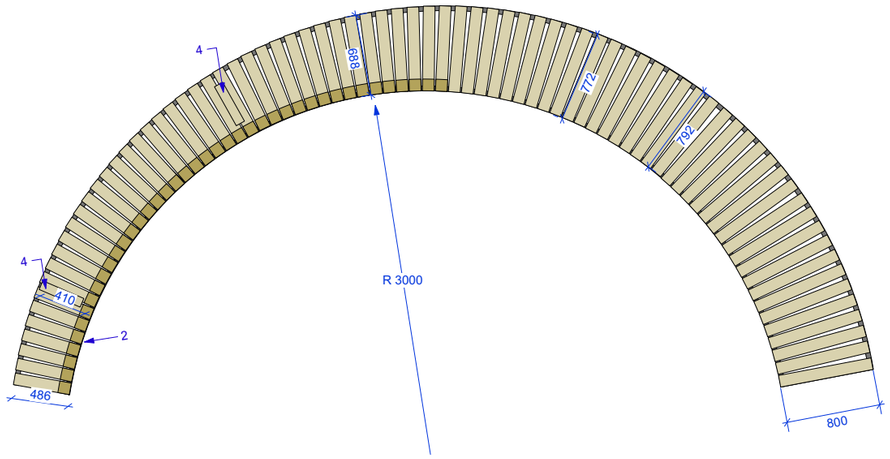
01 Corner bench B - Plan
1:25



02 Corner bench - Section A
1:10



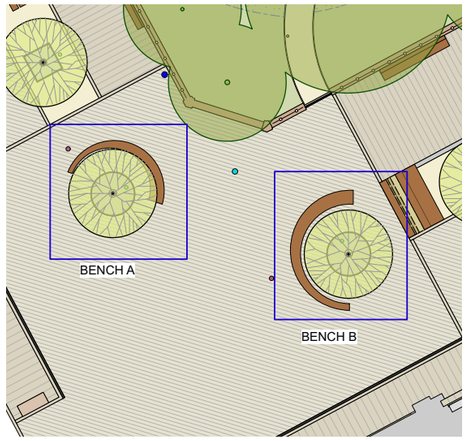
03 Corner bench - Section B
1:10



4 Corner bench A - Plan
1:25

DESIGN INTENT ONLY

Foundations to engineers specification.
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LOCATION PLAN (scale 1:200)

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6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

LOCATION PLAN



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY

Refer to specification clause Q50 225A

1. Timber slats
Dimensions - 40mm (D) x 100 mm (W) x 450-760mm (L)
Material: FSC hardwood cumaru certified timber on powder coated stainless steel frame.
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

2. Timber slats to backrest
Dimensions - 40mm (D) x 100 mm (W) x 440mm (L)
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

All timber to be finished with clear Osmo UV Protection Oil

3. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations. Fixings to engineer's specification.

4. Armrests
Powder coated steel with FSC hardwood certified timber top. Mechanically fixed to steel frame.
Steel support to to be inlayed into timber top.

5. Mechanically fixed to concrete paving slab to engineer's details.

All metal work to be powder coated in -
Colour: Mars 2525 Sable Product Code: YX355F

Revision	Date	Description	Drawn	Apprvd.
S4-P05	11-06-24	Final Construction	SAB	LH

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Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

Drg Title: Seating Details - Feature Circular Bench Phase 1A

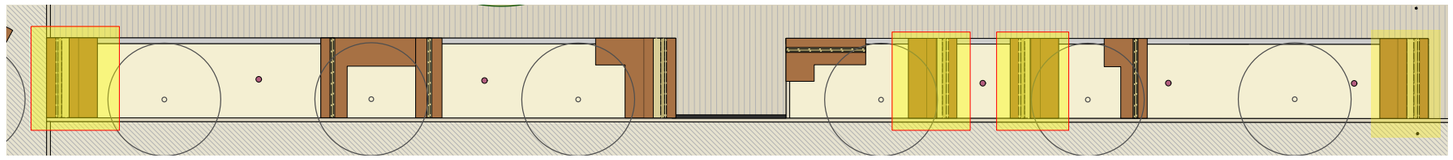
Created on	Created by	Approved by
03.03.20	SR	SAB

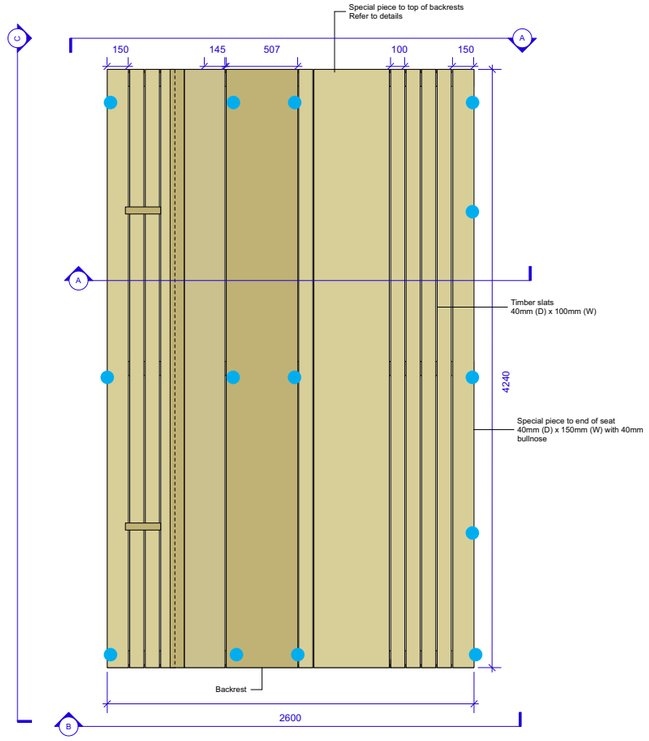
Scale	Size	Workstage
As Shown	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7007	S4	P05

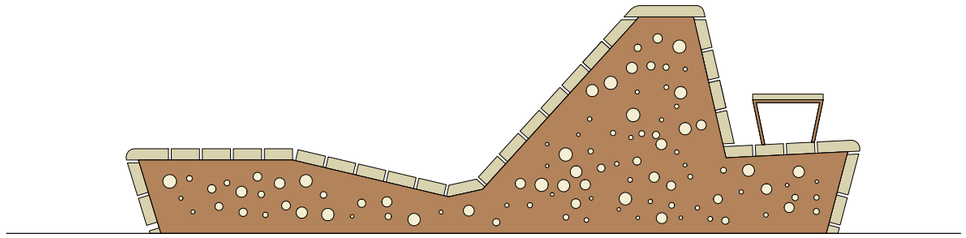
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BENCH TYPE 1A - EACH TYPE BENCH WILL NEED TO BE ABLE TO ADAPT TO LOCALISED LEVELS

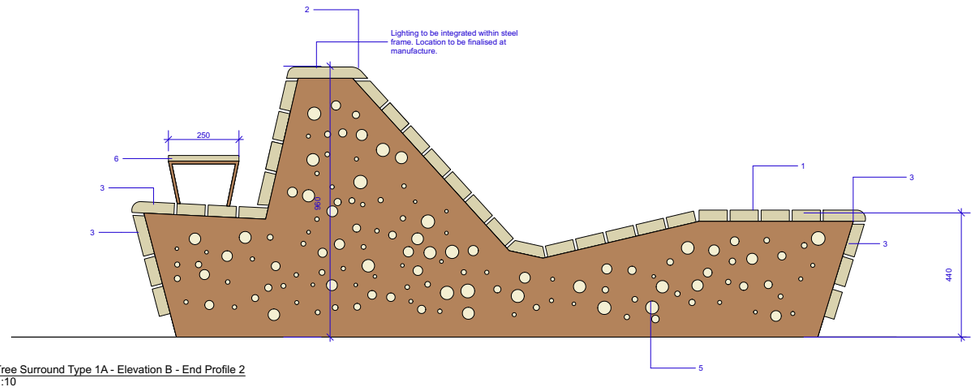




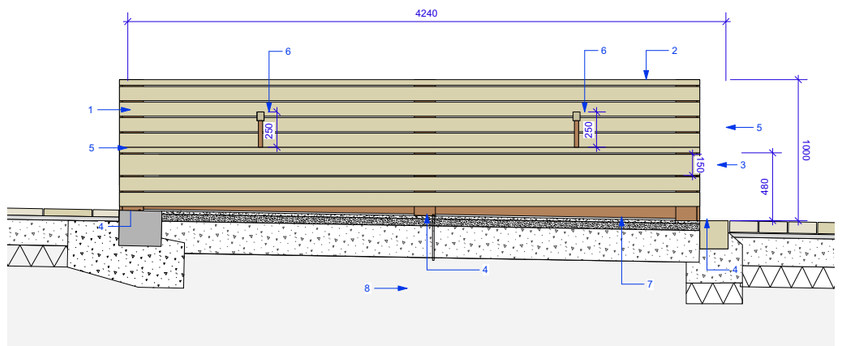
01 Tree Surround Type 1 - Plan View
1:20



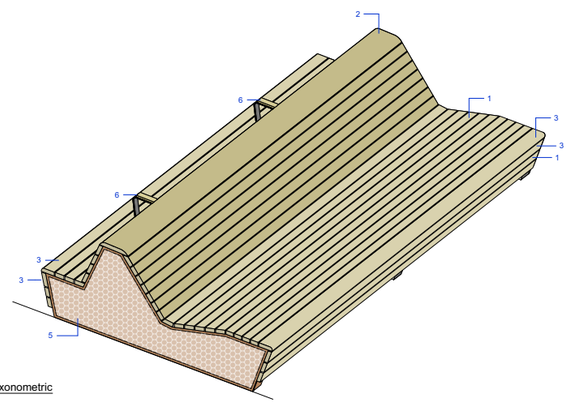
02 Tree Surround Type 1A - Elevation A - End Profile 1 (kerb side)
1:10



03 Tree Surround Type 1A - Elevation B - End Profile 2
1:10



04 Tree Surround Type 1A - Elevation C - Front Profile
1:20



05 Tree Surround Type 1A - Axonometric
NTS

DESIGN INTENT ONLY

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5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

LOCATION PLAN



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 220B

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

2. Bespoke solid timber end piece to top of backrests
Sizes vary - refer to drawing
Material: FSC hardwood cumaru certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Bailey Street Furniture group or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

4. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width.
Steel frame to accomodate perspex panels to allow for diffusion of light through slats.

5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.
10mm depth, dimensions as per drawings
Laser cut design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maitenance access panel to be integrated.

6. Armrests
Powder coated steel with FSC cumaru hardwood top
Mechanically fixed to steel frame.
Powder coasted steel support to to be inlayed into timber top.
Colour: Mars 2525 Sable Product Code: YX355F

7. Steel or wooden flashing to front eleveations.
Mechanically fixed to steel frame to take up gap caused by gradient across bench (subject to manufacturer's recommendation)
Finish : Hot dip galvanised and powder coasted steel flashing
Colour: Mars 2525 Sable Product Code: YX355F

8. Concrete foundations to engineers specification

9. Accessories
Allowance for stainless steel anti-skate fin to front face of bench. 6no. total.

Anti-skate stud locations

Revision	Date	Description	Drawn	Apprvd.
S4-P07	11-06-24	Final Construction	SAB	LH

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T: 0151 363 1230

Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

Drg Title: Seating Details - Tree Surround - Bench 1A Phase 1A

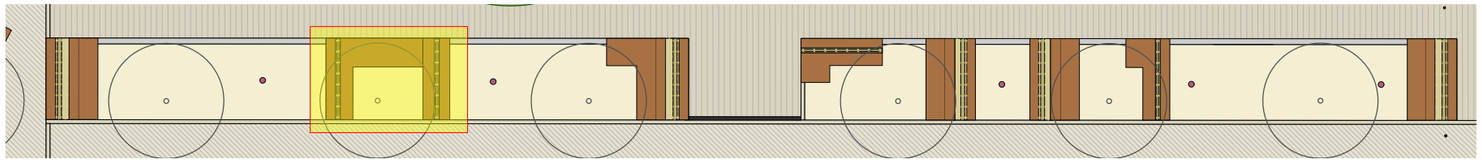
Created on	Created by	Approved by
03.03.20	SR	SAB

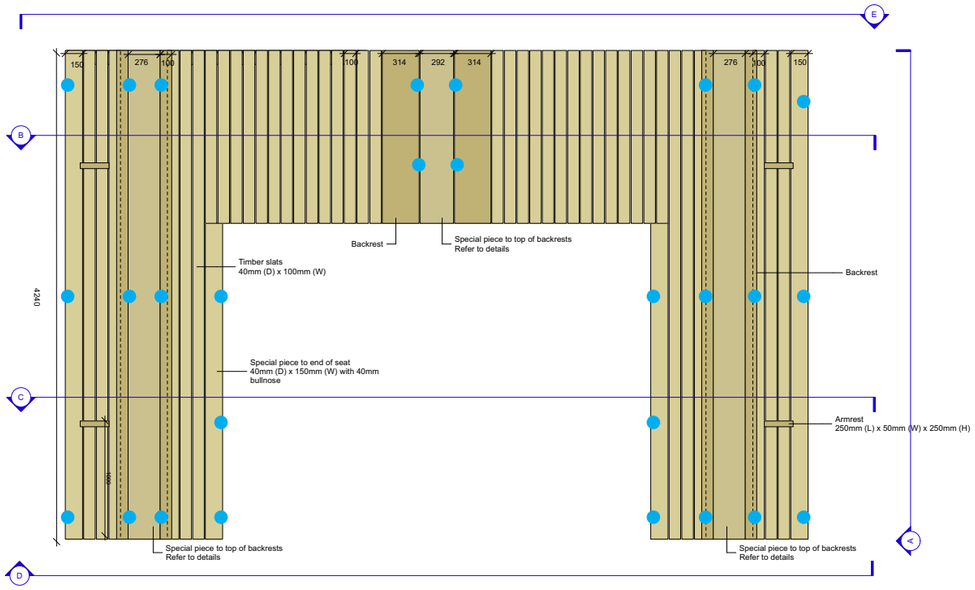
Scale	Size	Workstage
As Shown	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7014	S4	P07

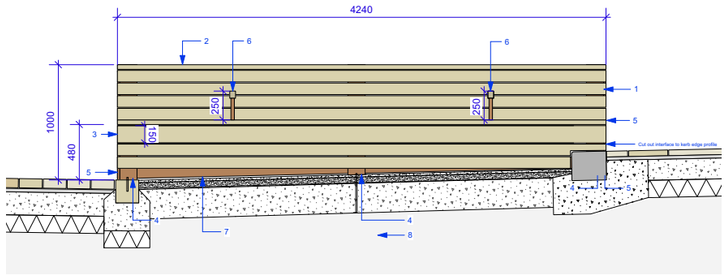
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BENCH TYPE 2 - EACH TYPE BENCH WILL NEED TO BE ABLE TO ADAPT TO LOCALISED LEVELS

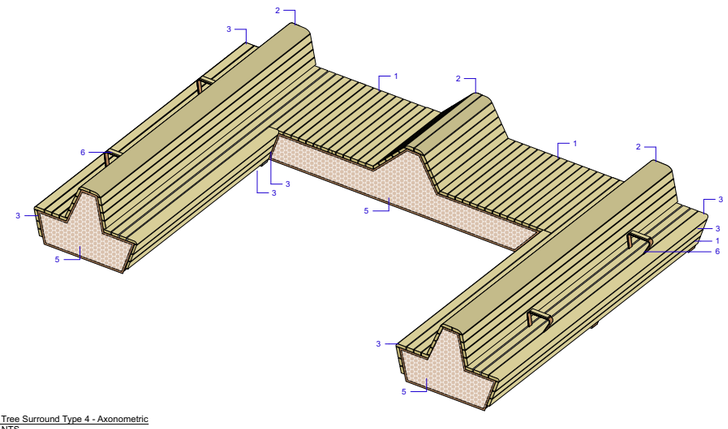




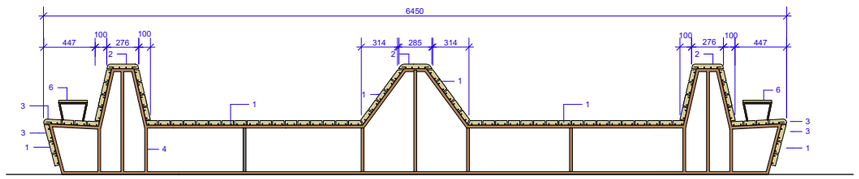
8 Tree Surround Type 4 - Plan View
1:25



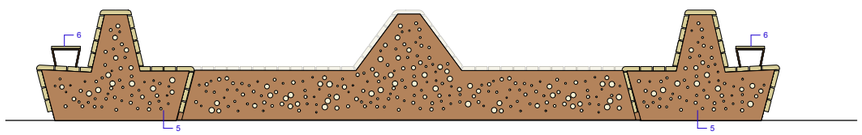
9 Tree Surround Type 4 - Elevation A - Front Profile
1:25



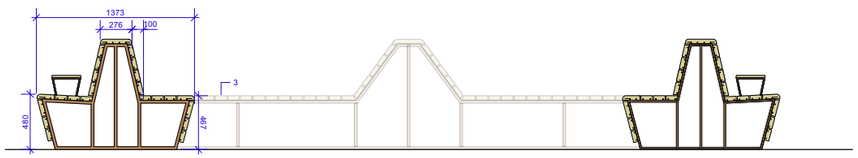
10 Tree Surround Type 4 - Axonometric
NTS



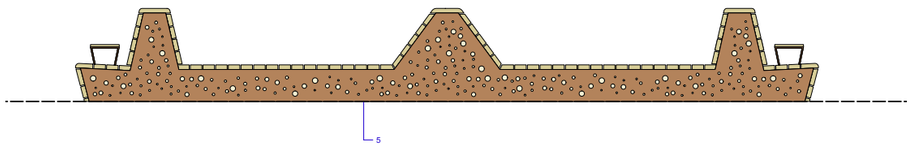
11 Tree Surround Type 4 - Section B
1:25



12 Tree Surround Type 4 - Elevation D
1:25



13 Tree Surround Type 4 - Section C
1:25



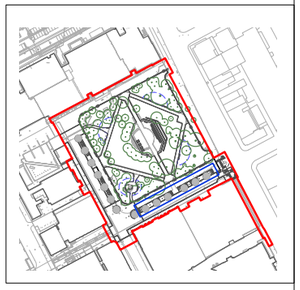
14 Tree Surround Type 4 - Elevation E
1:25

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7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 220C

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

2. Bespoke solid timber end piece to top of backrests
Sizes vary - refer to drawing
Material: FSC cumaru hardwood certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Bailey Street Furniture group or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

4. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width.
Steel frame to accomodate perspex panels to allow for diffusion of light through slats.

5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maitenance access panel to be integrated.

6. Armrests
Folded G316 stainless steel with FSC cumaru hardwood
Mechanically fixed to steel frame.
Powder coasted steel support to to be inlayed into timber top.
Colour: Mars 2525 Sable Product Code: YX355F

7. Steel flashing to front eleveations.
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish : Hot dip galvanised and powder coasted steel flashing
Colour: Mars 2525 Sable Product Code: YX355F

8. Concrete foundations to engineers specification

9. Accessories
Allowance for stainless steel anti-skate fin to front face of bench.
12no. total

Anti-skate stud locations

Revision	Date	Description	Drawn	Apprvd.
S4-P07	11-06-24	Final Construction	SAB	LH

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T: 0151 363 1230

Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

Drg Title: Seating Details - Tree Surround - Bench 2 Phase 1A

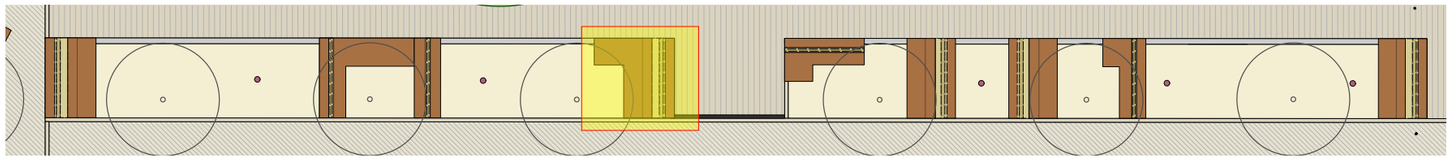
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Scale	Size	Workstage
As Shown	A1	Final Construction

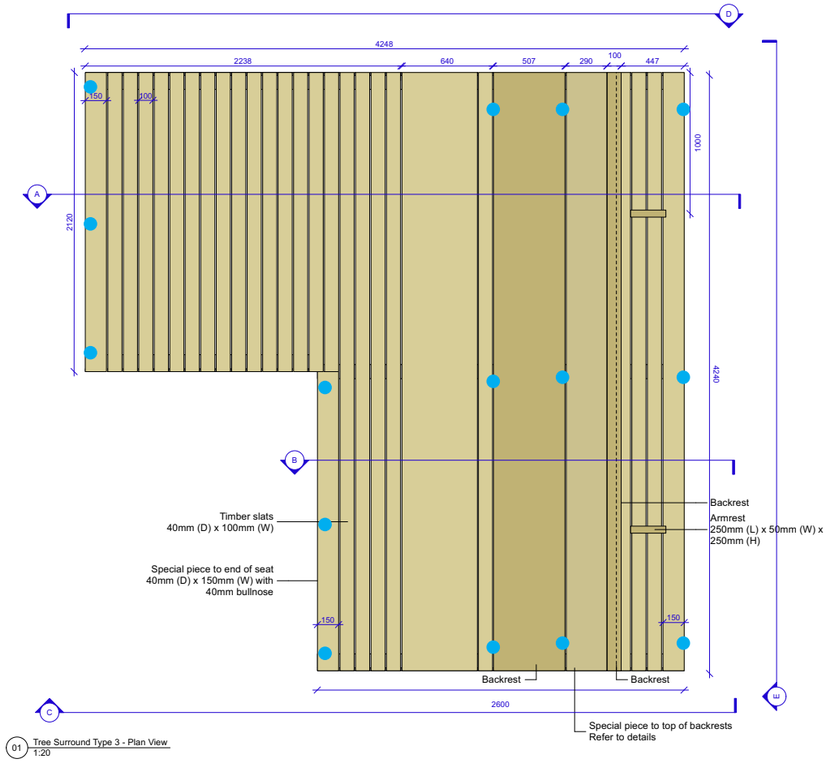
Drg No. 1958-PLA-01A-XX-DR-L-7015 | Suitability S4 | Revision P07

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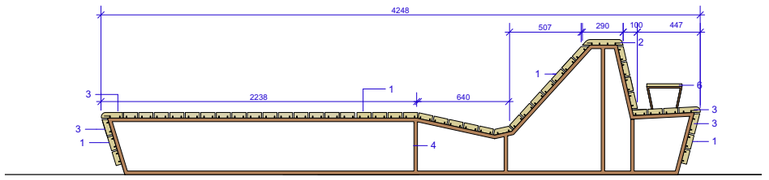
BENCH TYPE 3 - EACH TYPE BENCH WILL NEED TO BE ABLE TO ADAPT TO LOCALISED LEVELS



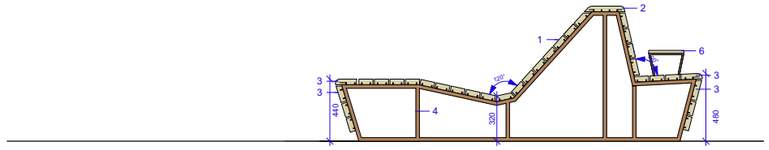
Location plan (scale 1:150)



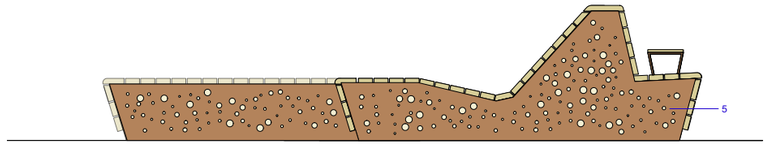
01 Tree Surround Type 3 - Plan View
1:20



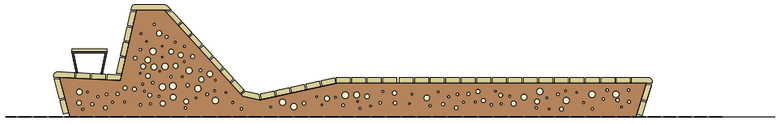
02 Tree Surround Type 3 - Section A - Through Width
1:20



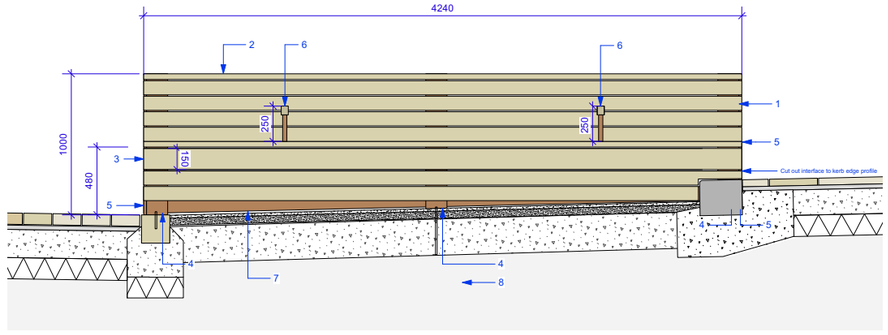
03 Tree Surround Type 3 - Elevation B
1:20



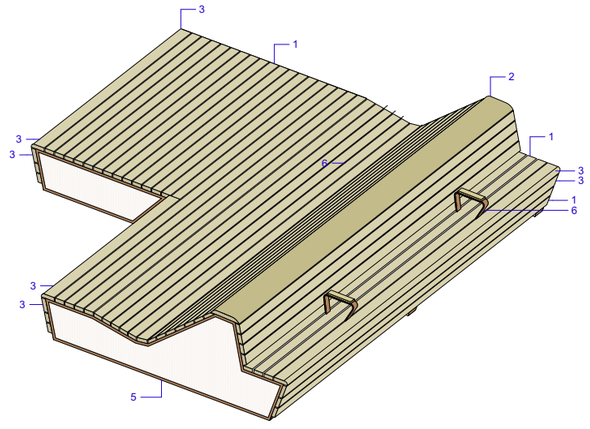
04 Tree Surround Type 3 - Elevation C
1:20



05 Tree Surround Type 3 - Elevation D
1:20



06 Tree Surround Type 3 - Elevation E
1:20



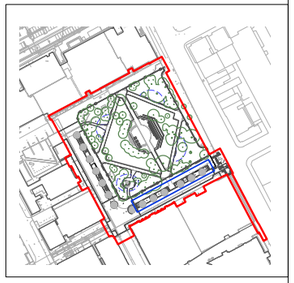
07 Tree Surround Type 3- Axonometric
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5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

EY
Refer to specification clause Q50 220D

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

2. Bespoke solid timber end piece to top of backrests
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Bailey Street Furniture group or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

4. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width.
Steel frame to accomodate perspex panels to allow for diffusion of light through slats.

5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maitenance access panel to be integrated.

6. Armrests
Folded powder coated steel with FSC hardwood
Mechanically fixed to steel frame.
Powder coasted steel support to to be inlayed into timber top.
Colour: Mars 2525 Sable Product Code: YX355F

7. Steel flashing to front elevations.
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish : Hot dip galvanised and powder coasted steel flashing
Colour: Mars 2525 Sable Product Code: YX355F

8. Concrete foundations to engineers specification

9. Accessories
Allowance for stainless steel anti-skate fin to front face of bench.
6no. total

Anti-skate stud locations

Revision	Date	Description	Drawn	Apprvd.
S4-P07	11-06-24	Final Construction	SAB	LH

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LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

Drg Title: Seating Details - Tree Surround - Bench 3 Phase 1A

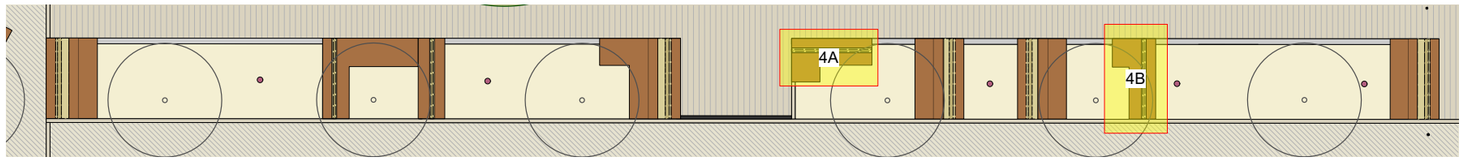
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03.03.20	SR	SAB

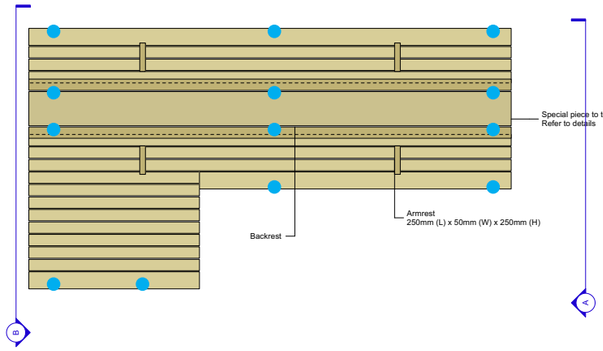
Scale	Size	Workstage
As Shown	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7016	S4	P07

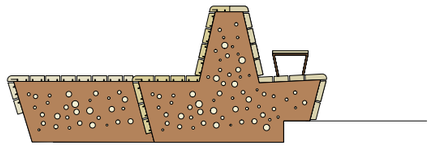
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BENCH TYPE 4A - EACH TYPE BENCH WILL NEED TO BE ABLE TO ADAPT TO LOCALISED LEVELS

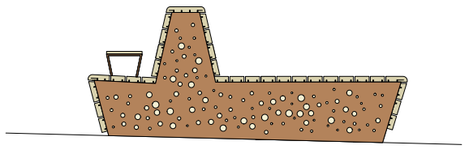




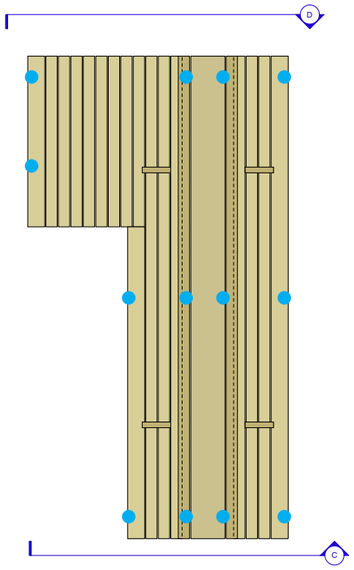
01 Tree Surround Type 4A - Plan View
1:25



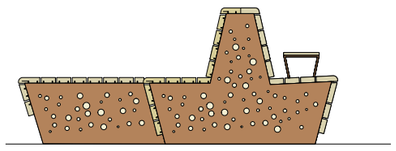
A Tree Surround Type 4A - Elevation A (kerb edge)
1:20



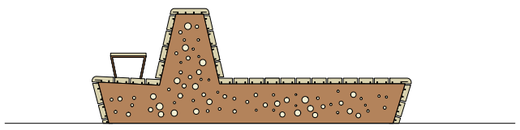
B Tree Surround Type 4A - Elevation B
1:20



2 Tree Surround Type 4B - Plan View
1:25



C Tree Surround Type 4B - Elevation A
1:20



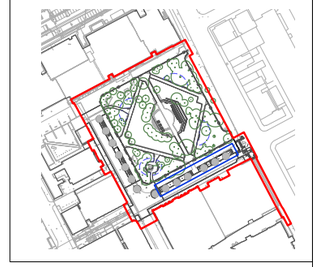
D Tree Surround Type 4B - Elevation B (kerb edge)
1:20

DESIGN INTENT ONLY

Foundations to engineers specification. subject to approval of manufacturers drawings, all measurements to be checked on site prior to ordering and fabrication.

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5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 220E

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

2. Bespoke solid timber end piece to top of backrests
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Bailey Street Furniture group or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Bailey Street Furniture group or similar and approved

4. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width.
Steel frame to accomodate perspex panels to allow for diffusion of light through slats.

5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maitenance access panel to be integrated.

6. Armrests
Folded G316 stainless steel with FSC hardwood
Mechanically fixed to steel frame.
Powder coasted steel support to to be inlayed into timber top.
Colour: Mars 2525 Sable Product Code: YX355F

7. Steel flashing to front eleveations.
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish : Hot dip galvanised and powder coasted steel flashing
Colour: Mars 2525 Sable Product Code: YX355F

8. Concrete foundations to engineers specification

9. Accessories
Allowance for stainless steel anti-skate fin to front face of bench.
10no. Total

Anti-skate stud locations

Revision	Date	Description	Drawn	Apprvd.
S4-P03	11-06-24	Final Construction	SAB	LH

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T: 0151 363 1230

Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

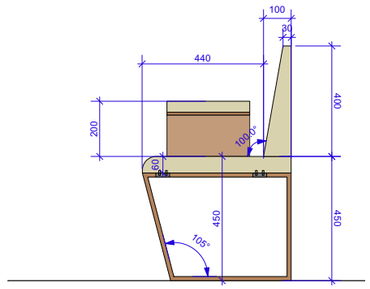
Drg Title: Seating Details - Tree Surround - Bench 4A+4B Phase 1A

Created on	Created by	Approved by
03.03.20	SR	SAB

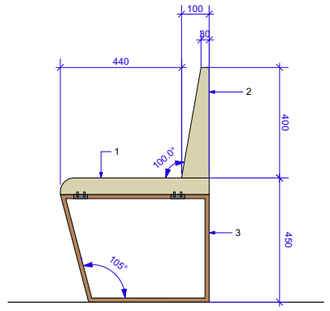
Scale	Size	Workstage
As Shown	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7028	S4	P03

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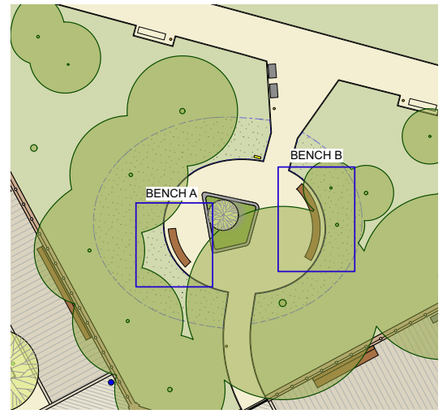
01 Typical Section A-A'
1:10



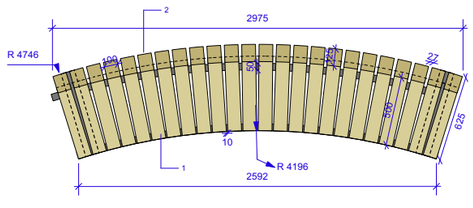
02 Typical Section B-B'
1:10

DESIGN INTENT ONLY

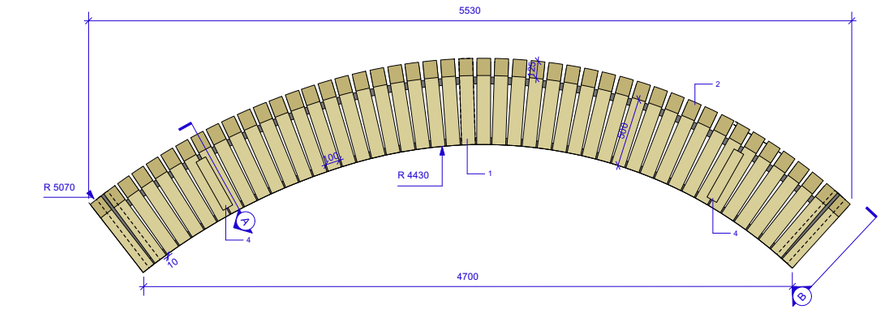
Foundations to engineers specification.
subject to approval of manufacturers drawings, all measurements to be checked on site prior to ordering and fabrication.



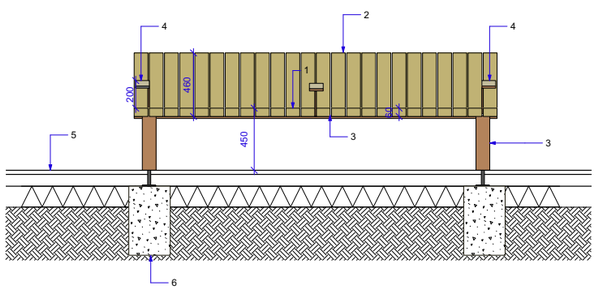
LOCATION PLAN (scale 1:200)



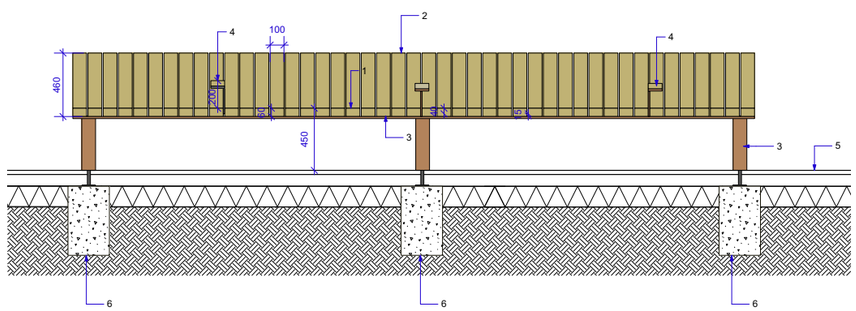
03 Memorial Bench A - Plan View
1:20



04 Memorial Bench B - Plan View
1:20



05 Memorial Bench A - unfolded elevation
1:20

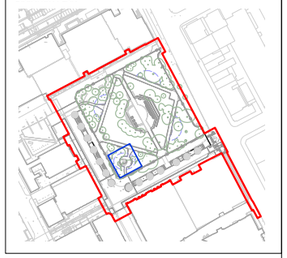


06 Memorial Bench B - unfolded elevation
1:20

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6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

LOCATION PLAN



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 225B

1. Tmber slats to seat
Dimensions - 40mm (D) x 100 mm (W)
Material: FSC hardwood certified timber - cumaru
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

2. Timber slats to backrest
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

All timber to be finished with clear Osmo UV Protection Oil

3. Steel frame - hot dipped galvanised powder coated steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details.
Mechanically fixed to concrete foundations. Fixings to engineer's specification.

4. Armrests
Folded powder coated steel with FSC hardwood certified timber top. Mechanically fixed to steel frame.
Steel support to to be inlayed into timber top.

5. Resin Bound Gravel
Refer to drawing 1958-PLA-01A-XX-DR-L-1000

6. Concrete pad foundations to engineers specification

All metal work to be powder coated in -
Colour: Mars 2525 Sable Product Code: YX355F

Revision	Date	Description	Drawn	Apprvd.
S4-P05	11-06-24	Final Construction	SAB	LH

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T: 0151 363 1230

Client: Manchester Metropolitan University

Project: MMU Landscape Masterplan, Manchester

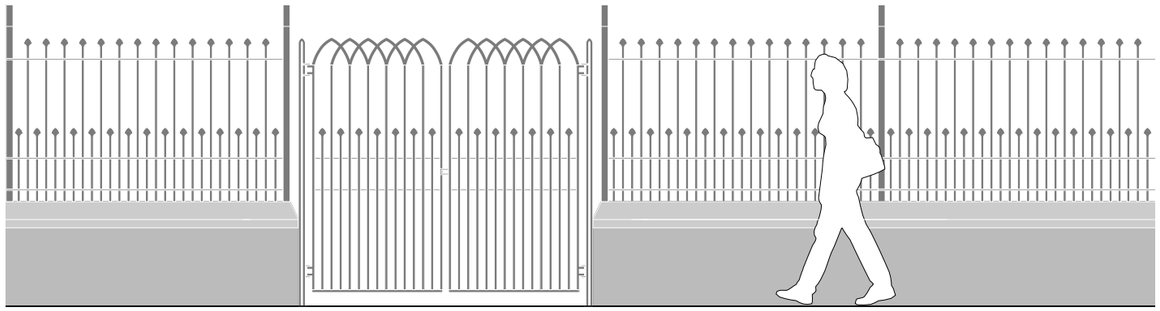
Drg Title: Seating Detail - Memorial Garden Bench Phase 1A

Created on	Created by	Approved by
03.03.20	SR	SAB

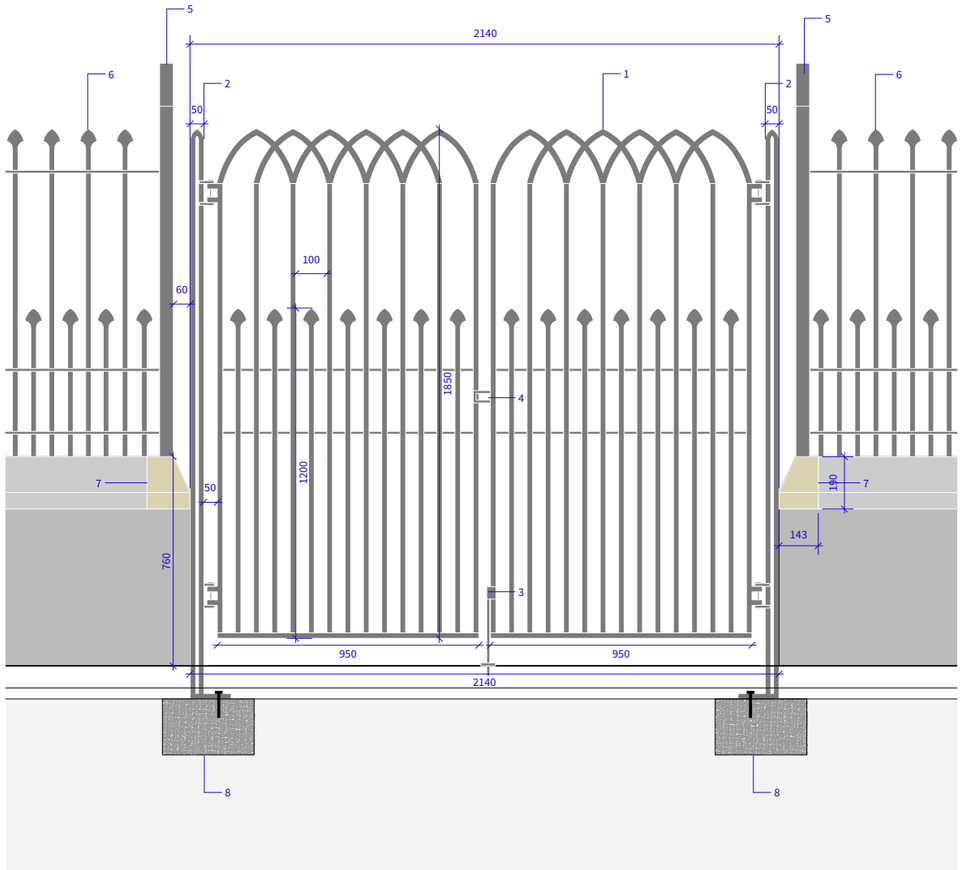
Scale	Size	Workstage
As Shown	A1	Final Construction

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7020	S4	P05

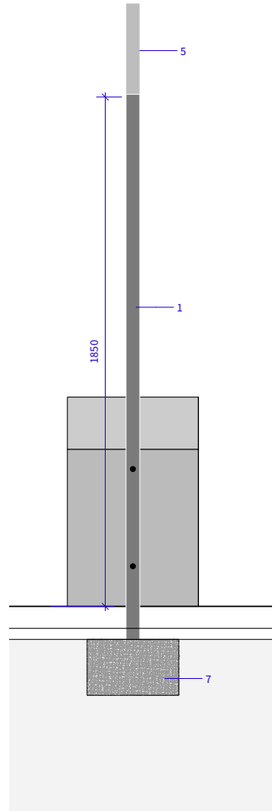
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01 New park gates - Elevation 01
1:20



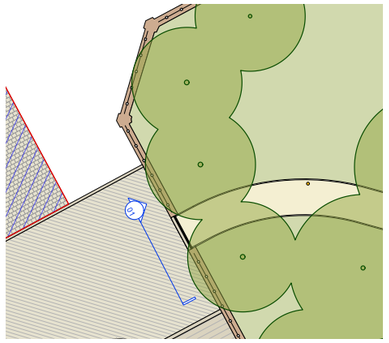
02 New Park Gates - Detailed elevation
1:10

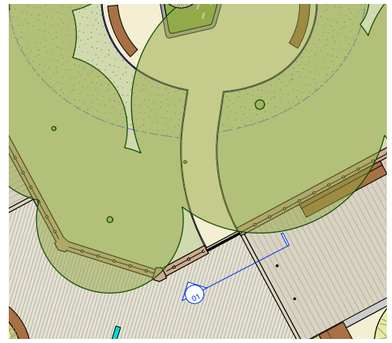


03 New Park Gates - Section
1:10

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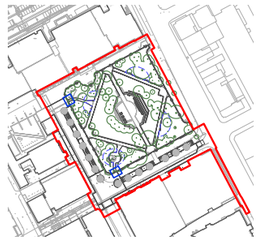


New park entrances - location plans (scale 1:150)

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7. Order of construction and setting out to be agreed on site.

LOCATION PLAN



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q40 580

1. Bespoke Entrance Gate
Dimensions - 50mm (W) x 1850mm (H) x 20mm (D)
Material: Iron
Cut out detail as per drawing.
All fixings: Tamper proof and counter sunk fixings.
Subject to further detailed design.

2. Fixed Posts to Entrance Gates
Dimensions - 950mm (W) x 1850mm (H) x 20mm (D)
Material: Wrought Iron
Finish: Galvanised and powder coated to match existing railings.
Fixed to concrete pad foundations to engineer's details.
All fixings: Tamper proof and counter sunk

3. Drop bolt

4. Locking mechanism
Subject to client confirmation

5. New end piece to railing cut out. To match existing railing detail.

6. Existing Railings

7. New sandstone capping piece to end of wall cut out.

8. Concrete foundations to engineers specification

Revision	Date	Description	Drawn	Apprvd.
S4-P05	27-01-23	PCSA	SR	SAB

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Client	Manchester Metropolitan University
Project	MMU Landscape Masterplan, Manchester
Drg Title	Furniture Detail - All Saints Entrance Gate Phase 1A

Created on	Created by	Approved by
01.09.20	SR	SAB

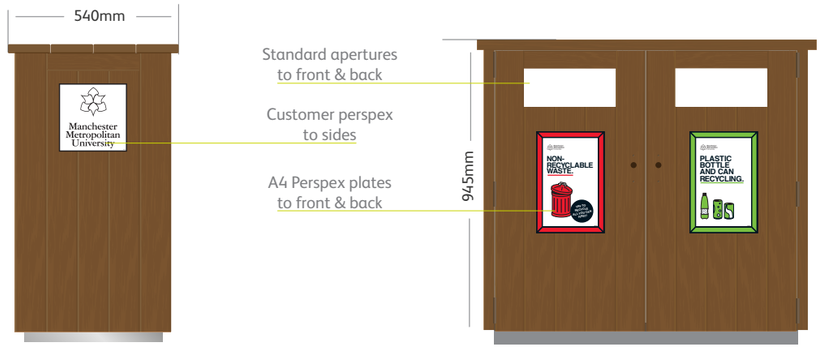
Scale	Size	Workstage
As Shown	A1	Stage 4

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7023	S4	P05

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Bins

BIN TYPE 1 - Wooden clad



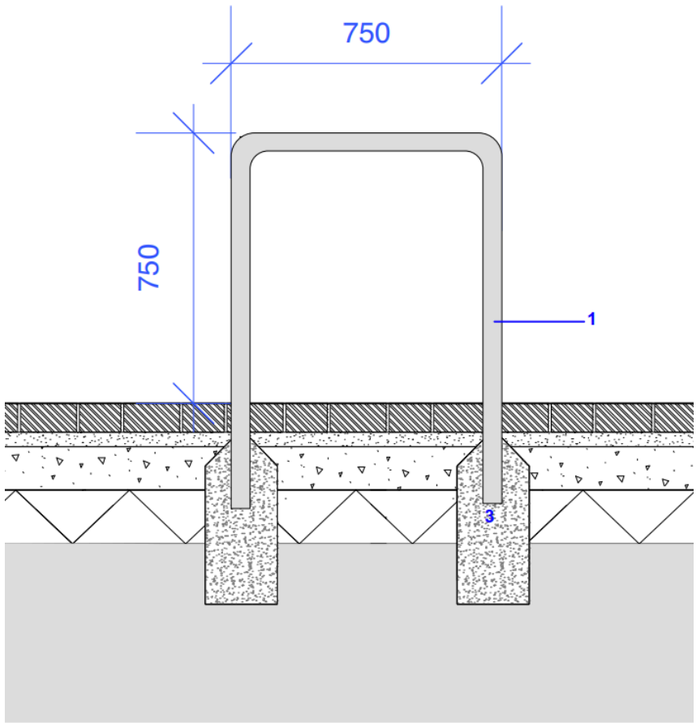
BIN TYPE 2 - Powder coated steel



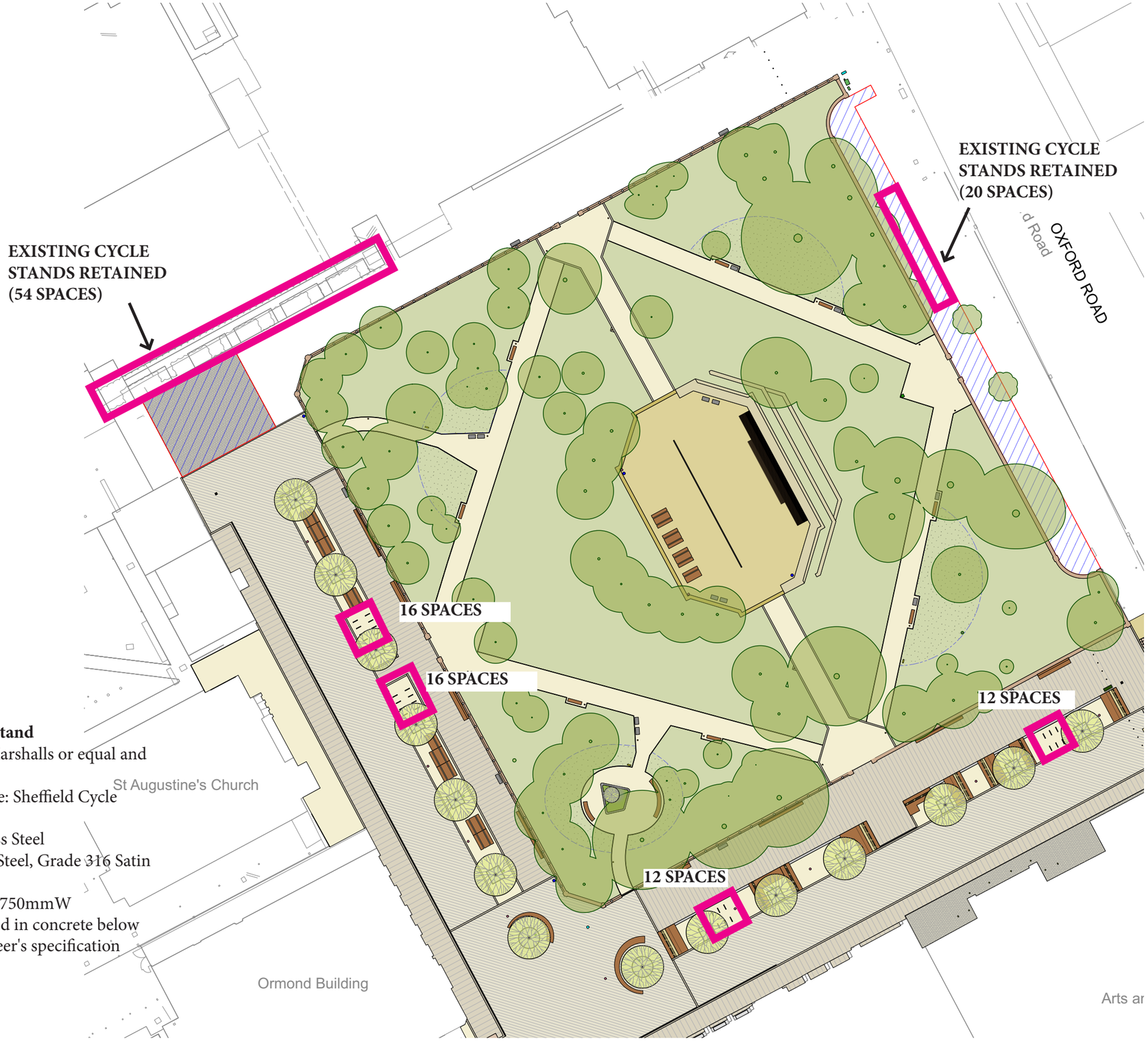


Bins - Location Plan

Cycle Parking



Sheffield Cycle Stand
Manufacturer: Marshalls or equal and approved
Product reference: Sheffield Cycle Stand
Material: Stainless Steel
Finish: Stainless Steel, Grade 316 Satin Finish
Size: 750mmH x 750mmW
Fixing: Root Fixed in concrete below ground to Engineer's specification



Cycle Spaces - Location Plan

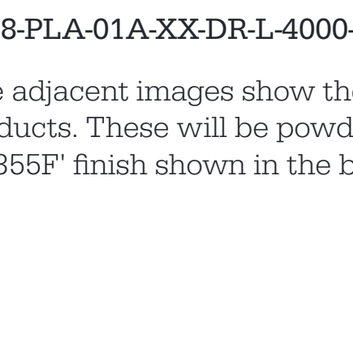
Lighting

LIGHTING GENERAL ARRANGEMENT

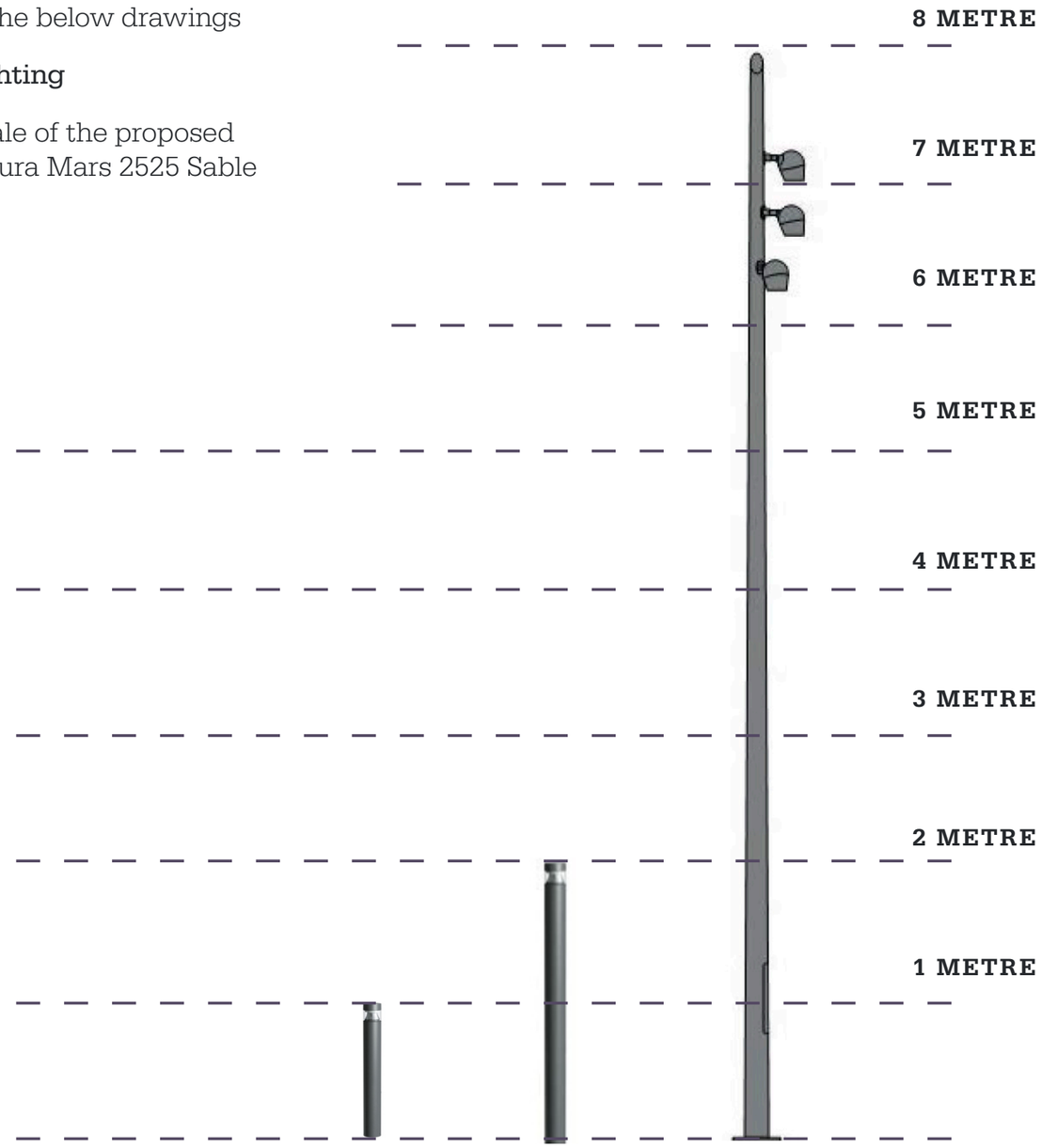
Locations of lighting elements can be found on the below drawings

1958-PLA-01A-XX-DR-L-4000-Furniture and Lighting

The adjacent images show the aesthetic and scale of the proposed products. These will be powder coated in a ' Futura Mars 2525 Sable YX355F' finish shown in the below swatch.



COLOUR SWATCH



PRECEDENT IMAGES - SELUX LIGHTING



