



Greyfriars Square Outline Specification

Public Realm Hardworks, Furniture and Softworks

26.04.2024 REV A

LDĀDESIGN

GREYFRIAR'S SQUARE



1.0 Introduction

This report sets out the broad principles for the materials, furniture and planting proposed for the new public space: Greyfriars Square. The space removes carriageway currently serving as part of the existing gyratory system and extends north from Newgate to Angel Street and from the new development of 81 Newgate (to be HSBC Bank's new HQ) to and including the Grade I Listed Greyfriars Church, also occupying a Scheduled Ancient Monument; with its known sensitivities.

The materials, furniture and planting chosen are inspired by the local context, and intend to set the space apart as being distinctive as well as being complementary to proposed materials used within the local City context having regard for the Council's accepted palette.

Robustness and low maintenance is a key factor in choosing the materials for the space. They have been selected to ensure they are either durable enough to endure the heavy use of a very urban environment with minimal maintenance, or will weather naturally adding richness to the scheme with time.

It is anticipated that the materials will be selected to achieve a minimum 20 year life span, where possible.

All materials will also have regard for embodied carbon, aiming to lower this as much as possible while responding to the targets above. Planting will, as well as responding to CoL targets explained in detail later in this document, seek to sequester carbon to reduce the length of time to carbon neutrality.

This outline specification should be read in conjunction with 8847_101 - 105 Greyfriar's Square General Arrangement drawings.

Important to note

The suggested materials, furniture and planting denoted in this specification are intended to provide an indication of the appearance and qualities of the scheme at this stage of design (RIBA 3 - Spatial and Detail Coordination).

This acknowledges the need for flexibility, allowing further choices to be made by the design team as the project progresses into technical design. In particular, allowing for flexibility in ultimate material choices (albeit the aim is to supply a degree of certainty at time of writing) to respond to the fluctuating market and impacts on supply and procurement that have been a common feature of current challenging construction environment.

Suppliers shown are intended as a guide only and demonstrate a suitable supplier LDA Design have experience with. Further exploration should be completed at the follow on technical design stage.

The final selection will be dependent on further technical design at RIBA 4, further liaison with potential manufacturers and suppliers, reviewing all product samples together (including sample panels provided by contractor on site), client approval, engineering and cost review.

RIBA Stage 3 Design team:

Light Follows Behaviour (LFB) - Lighting design.
 PLUVIAM Environmental - SuDS design
 LDA Design - Landscape design.

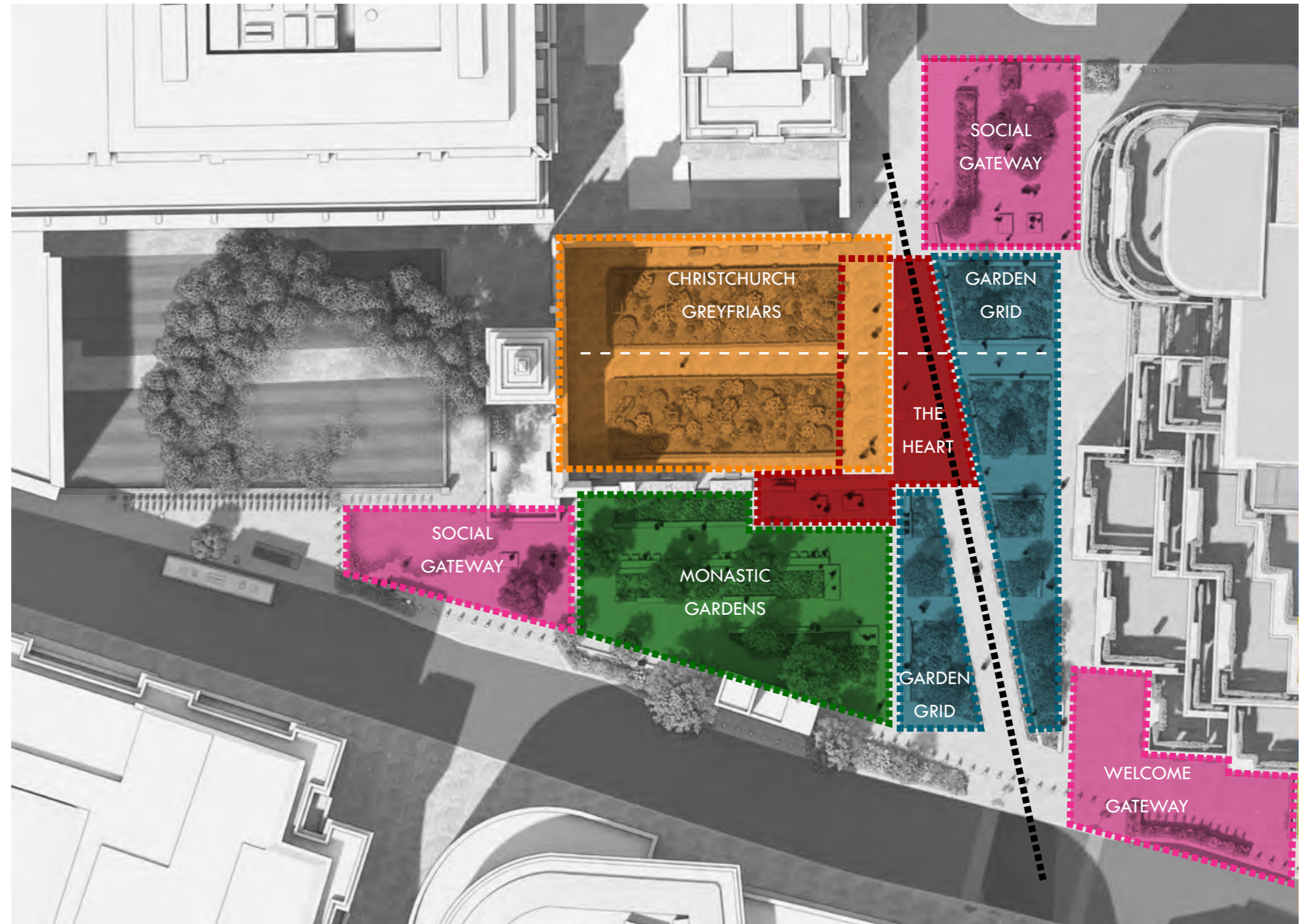
¹ Left: Overview of the proposal

Spatial Character and identity

The following reinforces the principle structure of the proposal as agreed and shown at RIBA 2 which has been protected through this current RIBA 3 design stage.

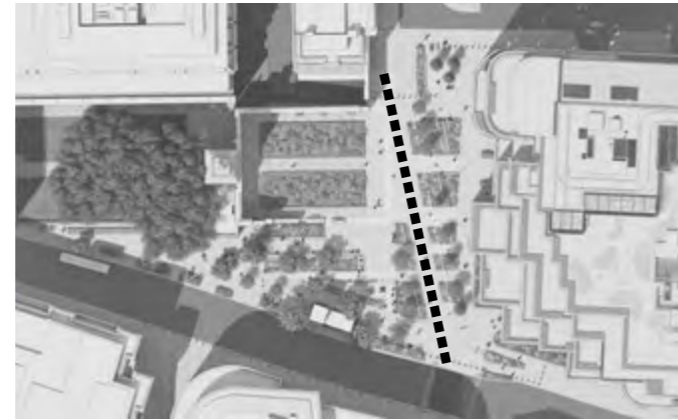
Noting plans and visuals are updated to reflect design development through RIBA 3.

Materials, furniture and planting have been carefully considered to reinforce these special character area identities.



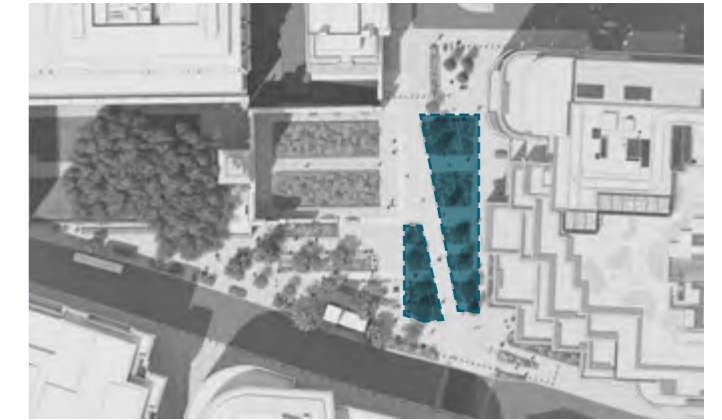
Grand axis

- Processional
- Fast, direct and enticing
- Generous, a primary connection
- Open and clear
- Reinforcing views



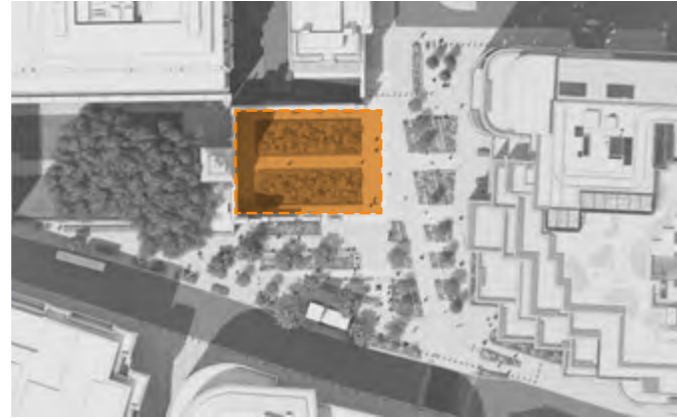
Garden grid

- Transitional, connecting Greyfriars with 81 Newgate Street and the wider geometries
- Maximised planting area
- Playable
- Clear connections and legible
- Close contact with nature



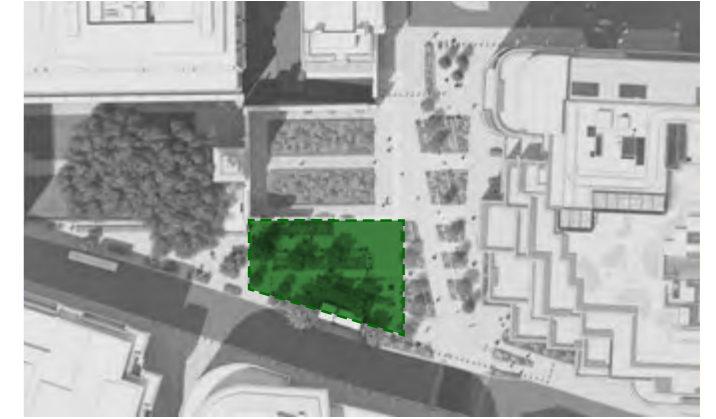
Christchurch Greyfriars

- Protected individual identity
- Distinct from the wider square
- Connected through planting
- Drives wider geometry
- Tranquil and peaceful



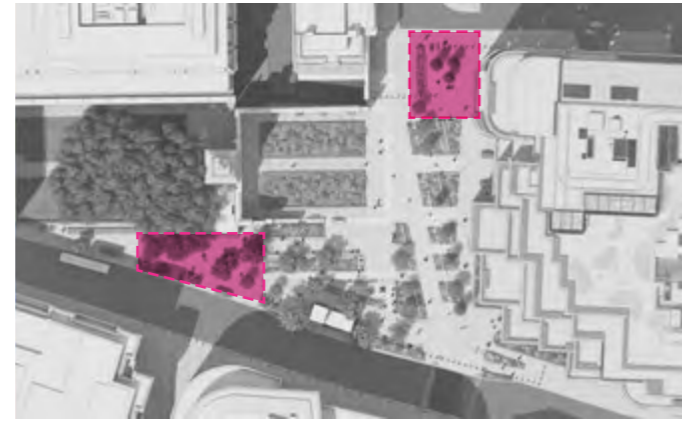
Monastic gardens + Play space

- Slower pace, tighter grain
- Rich network of spaces
- A varied social condition
- Immersive and experiential
- Close contact with nature
- Correct balance of accessible to able bodied play



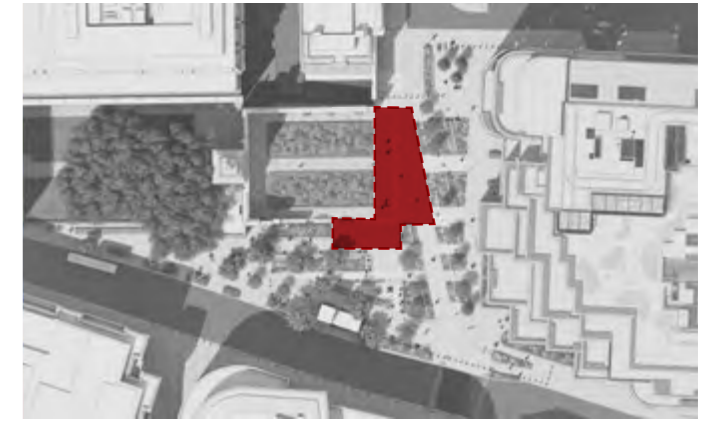
Social gateway

- Suggestive of a welcoming place
- Variety of social opportunities
- A mixture of configurations
- Adaptable and changeable
- A threshold



the HEART

- Greyfriar's Square heart
- Orientation space, busy, high footfall
- A moment to pause with amazing views
- Open and programmable (opportunities for a kiosk)
- Integrated history and narrative of place



2.0 Surface Materials

2.1 Paving type - 01 Yorkstone Planks

Grand Axis

Yorkstone - Sandstone

Desired finish:

- Diamond sawn (all sides).
- Size. Long format/planks approx. (L)600 x (W)100mm
- Flush joints- 6mm, rigid construction.
- Buff/grey mix assorted randomly.
- Laid in staggered stretcher bond. Perpendicular to the path direction (as per visuals)
- Surface sealant to be applied.

Quantity:

- Approx 336sqm



2.2 Paving type 02 - Yorkstone Flags

Primary paving surface throughout scheme

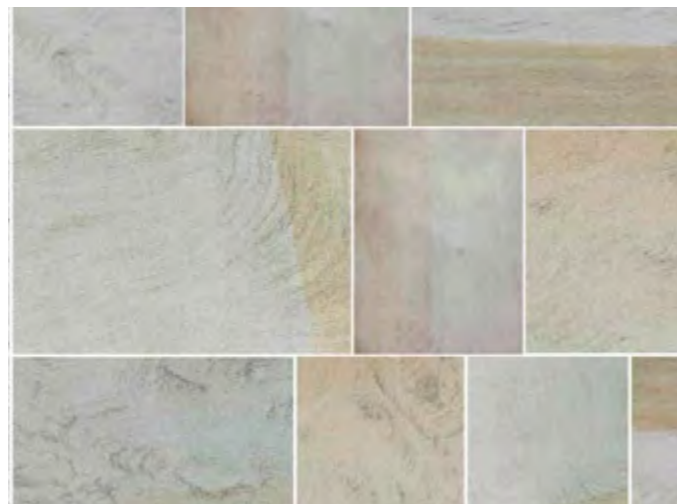
Yorkstone - Sandstone

Desired finish:

- Diamond sawn (all sides).
- Size. Large format paving approx. (L)varies x (W)600mm
- Flush joints- 6mm, rigid construction.
- Buff/grey mix assorted randomly.
- Laid in staggered stretcher bond.
- Surface sealant to be applied.

Quantity:

- Approx 2,505sqm



Detail as shown in the City Public Realm Toolkit (2.2)

2.3 Paving type 03 - Yorkstone Setts (Permeable paving)

Location:

Soil volume for trees is likely to be delivered through connecting rain gardens below surface, with the structure being supported by structural root cells (see outline details provided by Pluviam Environmental). To support this strategy, the paving will need to be permeable to capture rainfall.

Desired finish:

- Extending the same material finish as identified in clause 2.1 / 2.2 / 2.6
- Size. Paving approx. (L)300 x (W)200mm.
- Flush joints - Jointing widths to be determined in coordination with percolation rates (TBC in Stage 4 design - 10-12mm, rigid construction).

- Bound Permeable Jointing Mortar material (and system) to be fully permeable, joint width to be compliant with infiltration surface parameters.

Quantity:

- Approx 150sqm



Product Shown: Tufflow Rigid Jointing Mortar by Steintec®
Image courtesy of Steintec®

2.4 Paving type 04 - Granite Setts (vehicular)

Location:

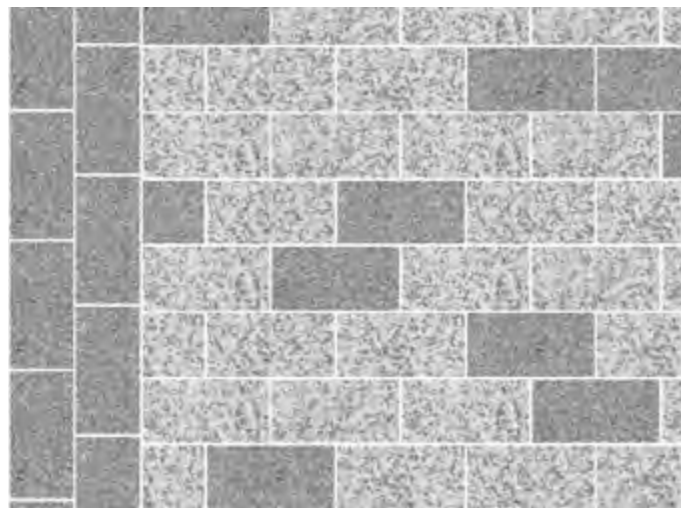
Loading bay / Carriageway to Bank of America entrance. The two colour mix of light and mid grey granite is to be laid in a random pattern, with a double mid grey channel against all kerb edges.

Desired finish:

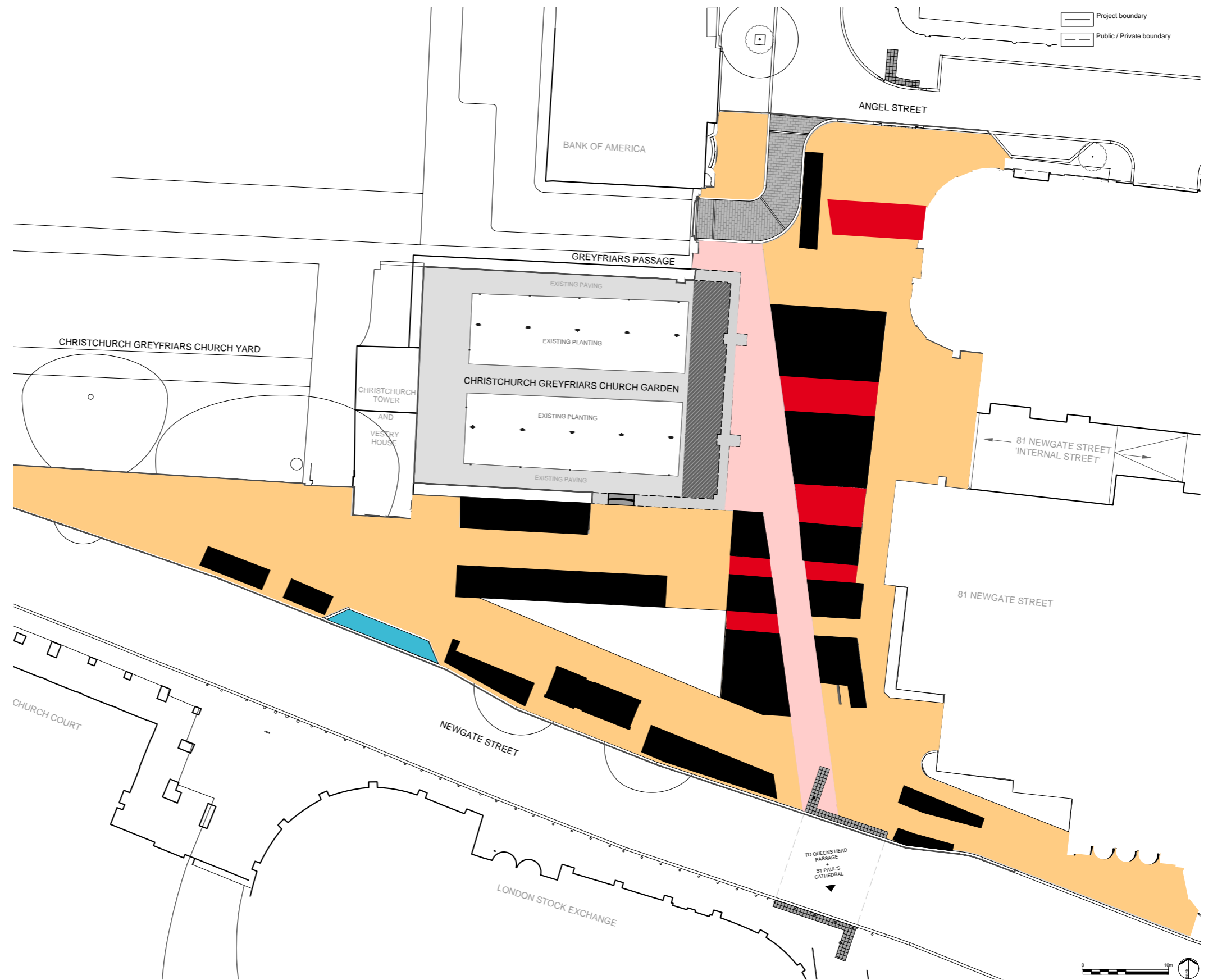
- Flamed top surface
- Size. Paving approx. (L)300 x (W)150mm.
- Flush joints - 6/8mm, rigid construction.
- 30 % mid-grey / 70% silver grey
- Laid in staggered stretcher bond.
- Surface sealant to be applied.
- Diamond sawn (all sides).

Quantity:

- Approx 85sqm



Detail as shown in the City Public Realm Toolkit



2.5 Paving type - 05 Yorkstone Flags (Reclaimed / Reused)

Greyfriar's Garden

Location:

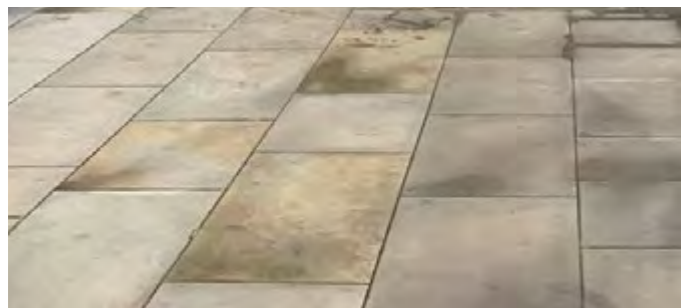
Good quality yorkstone pavers selected from within the project extent and reused to make up and repair paving within Greyfriars Church Ruin, specifically to the eastern edge inside the boundary wall artwork; see clause 2.8.

Desired finish:

- To match surrounding paving.
- Flush joints - 6mm, rigid construction.
- Buff/grey mix assorted randomly (as lifted).
- Laid in staggered stretcher bond.
- Surface sealant to be applied.

Quantity:

- Approx 105sqm



Site photograph; area of existing Yorkstone in good condition, potential for reuse

2.6 Paving type 06 - Yorkstone Setts (vehicular)

To cross-over at threshold to Bank of America

Forrest Pennant Sandstone / Yorkstone

Desired finish:

- Diamond sawn (all sides).
- Size. Large format paving approx. (L)300 x (W)150mm
- Flush joints- 6mm, rigid construction.
- Buff/grey mix assorted randomly.
- Laid in staggered stretcher bond.
- Surface sealant to be applied.

Quantity:

- Approx 35sqm



2.7 Paving type 07 - Wet pour safety surface (various colours)

Play surface to play area

To play space, as identified on General Arrangement Plan

Desired finish:

- Continuous seamless surface, no trip hazards.
- Wheelchair friendly.
- To be laid to permeable construction. Depth to suit equipment.
- Colours to sensitively complement the adjacent surfaces - located as shown on General arrangement plan. Contractor to assume three colour mix wearing course for pricing.

Quantity:

- Approx 150sqm - to play space

- Suggested products/suppliers (or equivalent agreed):
A suggested manufacturer/installer and product, or equivalent agreed:
- Lee Crosse, Redlynch Leisure Installations Ltd, Tel 01249 444537, info@redlynchleisure.co.uk, www.Redlynchleisure.co.uk
Product reference: Flexitop.
- Colour wearing course: 3 no colours to compliment yorkstone paving (see visuals for reference).



2.8 Recessed inspection covers

Location:

- Various throughout scheme.

Desired finish:

- Existing covers to be replaced with recessed covers in-filled with material to match immediately surrounding surface.
- Aligned with paving orientation and adjacent features where possible and not already installed.

Suggested suppliers (or equivalent agreed):

- Contractor to supply details for agreement.



Detail as shown in the City Public Realm Toolkit

2.9 Hazard paving

- Tactile paving to crossings - Blister paving
 Tactile paving to steps - Corduroy paving

Yorkstone - Sandstone

Desired finish:

- Diamond sawn (all sides).
- Size. Large format paving approx. (L)400 x (W)400mm
- Flush joints- 6mm, rigid construction.
- Laid in stack bond - as per national guidelines.
- As shown on General Arrangement Plan
- Surface sealant to be applied.
- Raised circular blisters to meet technical access standards
- Grooved stone to meet technical access standards

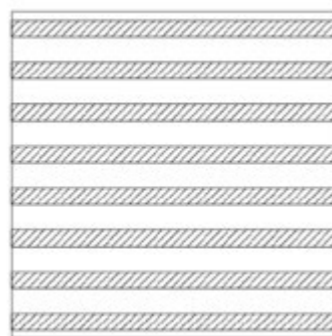
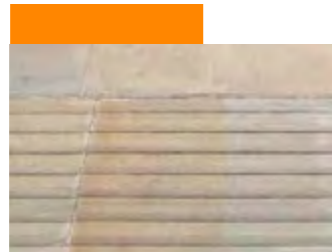
Quantity:

- Blister - Approx 295 units
- Corduroy - Approx 140 units

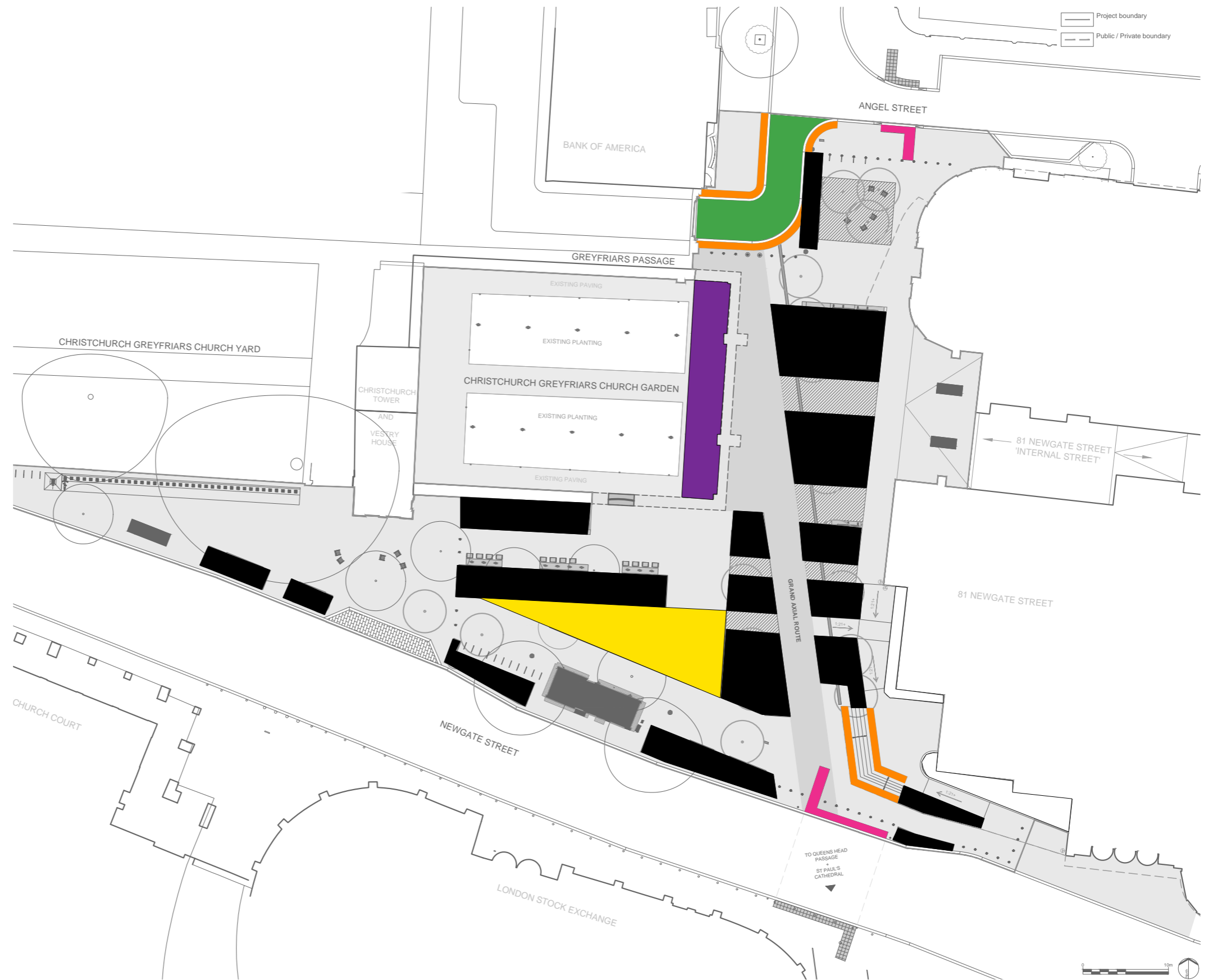
Blister paving



Corduroy paving



Detail as shown in the City Public Realm Toolkit

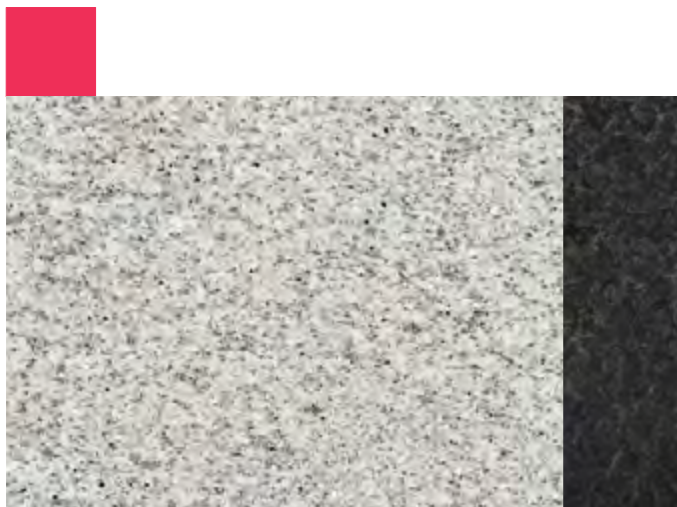


2.10 Paving type - Decorative interpretation of former wall within paving / ground plane

Introduction:

Greyfriars Square accommodates the remarkable Christchurch Greyfriars ruin whereby the remnants accommodate a pivotal position and provide focus on the space. Ruins of this nature within the City are recognised as evocative relics to both The Great Fire of London and the WWII Blitz. The Greyfriars Square project seeks to enhance the setting of Christchurch Greyfriars and provide an interpretive method of communicating its significance to the wider public.

Art is one of the most powerful forms of human expression and can help convey an individuals or a communities views and culture. Public art has a vital role to play in our cities as it is an expression of local culture and identity. Good public art engages people with the city and its people and makes people view our cities through a different lens.



White granite / black garite inlay
Image courtesy of Hardscape PLC

Through Stage 3 various opportunities were explored of how to communicate the powerful reference of what occurred within the context and how to interpret the narrative of previous uses. The piece of text sourced from the Times Newspaper in 1944 felt poignantly communicated this; further research should be conducted to understand the origin of this text and who wrote it.

Below illustrates an approach shared with both the project Steering Group and Officer Group at Stage 3. This specific aspect of the design appreciates that further specialist development (including, among others, historic and specialist design expertise) may be necessary as part of a further public arts project.



“The time will come—much sooner than most of us to-day can visualise—when no trace of death from the air will be left in the streets of rebuilt London. At such a time the story of the blitz may begin to seem unreal not only to visiting tourists but to a new generation of Londoners. It is the purpose of war memorials to remind posterity of the reality of the sacrifices upon which its apparent security has been built. These church ruins, we suggest, would do this with realism and gravity.”

The Times Newspaper 1944

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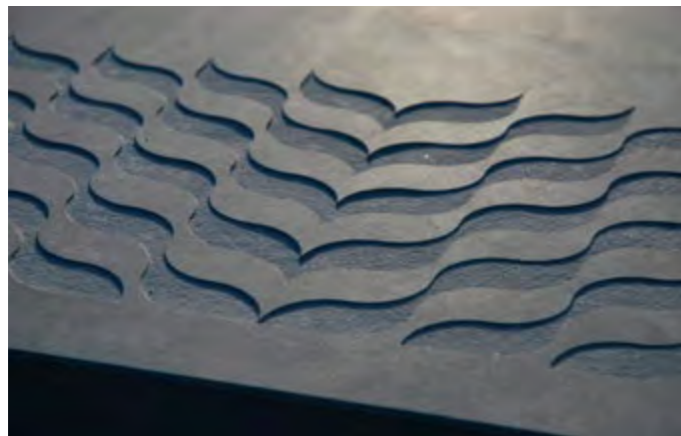
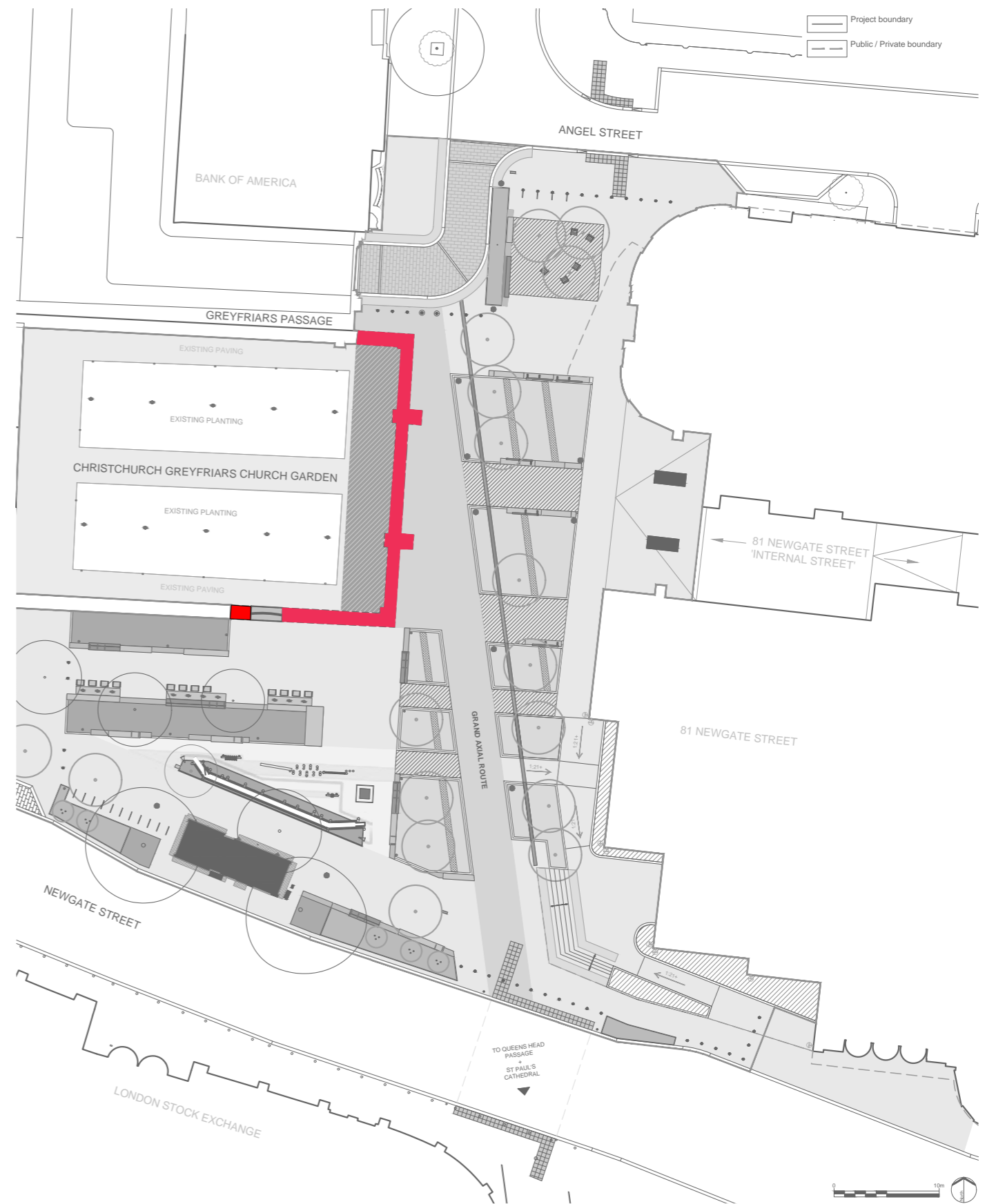


Image courtesy of Hardscape PLC



3.0 Edges

3.1 Plinth to Christ's Hospital Sculpture

Located as per General Arrangement Plan

Yorkstone - Sandstone

Desired finish:

- Sandstone plinth
- Size. (L)3000 x (W)1300 x (H) 660mm
- Plinth to fit within width of removed contemporary wall
- Maintain current height - 660 mm as prescribed:
Design & Access Statement - Christ's Hospital
Foundation 5th October 2016
- Finish - Diamond sawn
- Surface sealant to be applied.

Quantity: 1 no.



3.2 Stone edge - Bespoke seating edge

Located as per General Arrangement Plan

Yorkstone - Sandstone

Desired finish:

- Colour - Sandstone seating edge
- Size. (L) varies x (W) 500 x (H) varies 340 - 420mm
- Finish - Diamond sawn
- Surface sealant to be applied.

Note: Anti-skate details will need to be assessed and incorporated as appropriate in to edges to prevent potential damage.



3.3 Stone edge - Raised planter

Located as per General Arrangement Plan

Yorkstone - Sandstone

Desired finish:

- Colour - Sandstone raised planter edge
- Size. (L) varies x (W) 150 x (H) varies
- Finish - Diamond sawn
- Surface sealant to be applied.

Note: Anti-skate details will need to be assessed and incorporated as appropriate in to edges to prevent potential damage.



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3.4 Flush stone edge - Rain garden edge

Located as per General Arrangement Plan

Yorkstone - Sandstone

Desired finish:

- Colour - Yorkstone - Sandstone
- Size. Straight lengths / radial units. (L) 900 x (W) 150 x (H) 100 mm
- Flush joints - 6mm, rigid construction.
- Finish - Diamond sawn
- Surface sealant to be applied.
- 16 - 18mm Resin bound gravel laid to top of kerb haunching to mitigate substrate washout.
- Aggregate Colour & Size: Corn Flint (1-3mm)/ Amber Gold (2-5mm)



3.5 Flush stone edge - Planter

Located as per General Arrangement Plan

Yorkstone - Sandstone

Desired finish:

- Colour - Yorkstone - Sandstone
- Size. Straight lengths / radial units. (L) 900 x (W) 150 x (H) 50 mm
- Flush joints - 6mm, rigid construction.
- Finish - Diamond sawn
- Surface sealant to be applied.



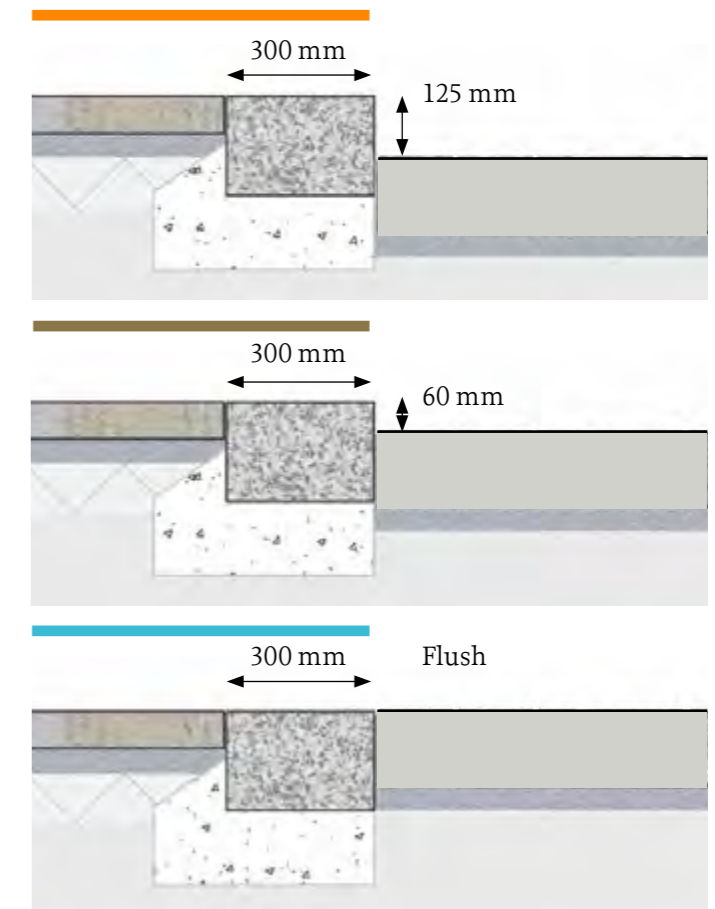
3.6 Kerbs

Located as per General Arrangement Plan

Granite

Desired finish:

- Colour - Silver grey
- Size. Straight lengths / radial units. (L) 900 x (W) 300 x (H) as shown below
- Flush joints - 6mm, rigid construction.
- Finish - Flamed front and top face, sawn all sides



Detail as shown in the City Public Realm Toolkit

3.6 Raised pin kerb edging

Located as per General Arrangement Plan
(Play space)

Yorkstone - Sandstone

Desired finish:

- Colour - Silver grey
- Size. Straight lengths / radial units. (L) 900 x (W) 50 x (H) 50 mm
- Finish - Diamond sawn
- Surface sealant to be applied.



Image - City Public Realm Toolkit

3.7 Steel edge - Flush

Located as per General Arrangement Plan
(and in between all typical paving types)

Anodised aluminium. Commercial grade.

Desired finish:

- Bronze effect
- Laid flush to adjacent surfaces.



Image courtesy of Kinley

3.8 Steel edge - Raised planter (600mm)

Located as per General Arrangement Plan

Power coated steel

Desired finish:

- High quality galvanised steel, zinc thermal sprayed, polyester powder coated finish to RAL 8022



4.0 Furniture

4.1 Bespoke seating - Timber top

Located as per General Arrangement Plan

Hardwood

Desired finish:

- Size.. (L)varies x (W) 555mm
- 70mm timber profile.
- FSC Certified hardwood.
- Timber butt / dummy joints - to avoid litter trapping

Quantity: 12 no.



4.2 Bespoke seating - Timber top with backrest

Located as per General Arrangement Plan

Hardwood

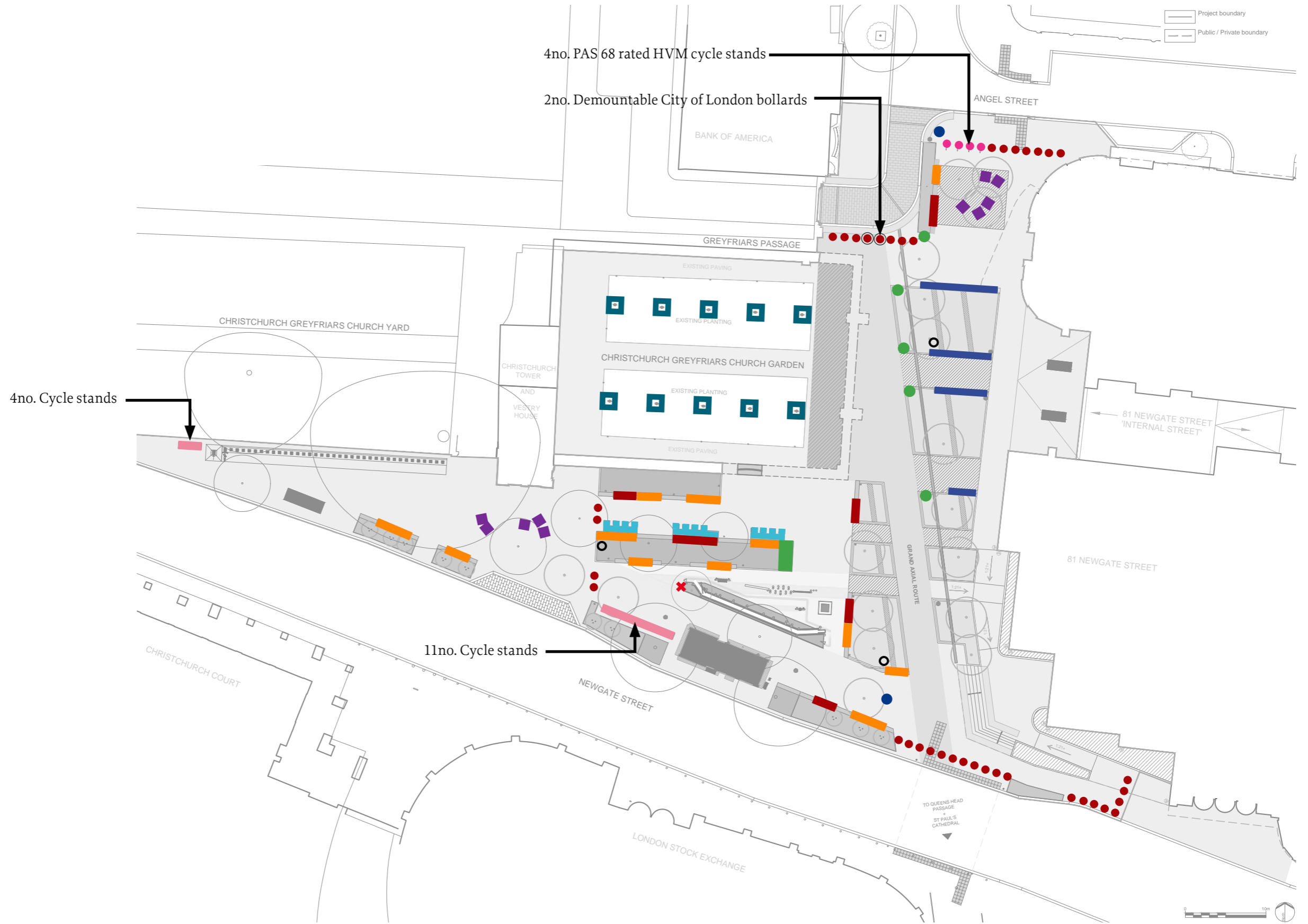
Desired finish:

- Size.. (L)varies x (W) 655mm
- 70mm timber profile.
- FSC Certified hardwood.
- Timber butt / dummy joints - to avoid litter trapping

Quantity: 6 no.



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4.3 Bespoke seating - Seating pad

Located as per General Arrangement Plan

Hardwood

Desired finish:

- Size.. (L) 3775 x (W) 1620mm
- 70mm timber profile.
- FSC Certified hardwood.
- Timber butt / dummy joints - to avoid litter trapping

Quantity: 1 no.

4.4 Bespoke dining tables and seats

Located as per General Arrangement Plan

Hardwood

Desired finish:

- Size. (L) 3775 x (W) 1620mm
- 70mm timber profile.
- FSC Certified hardwood.
- Timber butt / dummy joints - to avoid litter trapping

Single seats - Sandstone bases

- Colour - Yorkstone - Sandstone
- Size. (L) 750 x (W) 500 x (H) varies 450mm
- Finish - Diamond sawn
- Surface sealant to be applied.

Integrated lighting.

- See Light Follows Behaviour lighting strategy

Quantity: 3no. benches / 3no. dining tables / 12 no. single seats



4.5 Proprietary seats - Benches with arm rests and backrests

Located as per General Arrangement Plan

Desired finish:

- Size. (L)varies x (W) 540mm x (H) 435
- FSC Certified hardwood.
- Design as per manufactures recommendation

Metalwork

- High quality galvanised steel, zinc thermal sprayed, polyester powder coated finish to RAL 8022
- Design as per manufactures recommendation

Quantity:

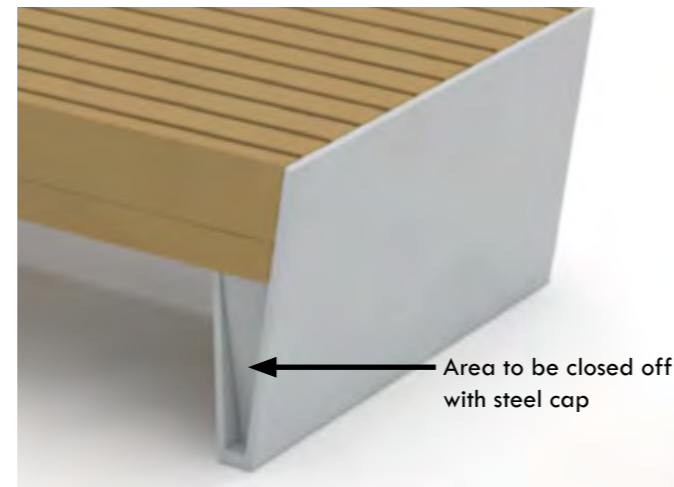
- 5no. benches with backrests and arm rests.
- 3 no. benches
- 3 no. small benches (made to size)

Note:

- Manufacturer to close 'leg' to all seating units with additional steel cap.

Product - Blocq

Company - (mmcite) j.hupian@mmcite.co.uk



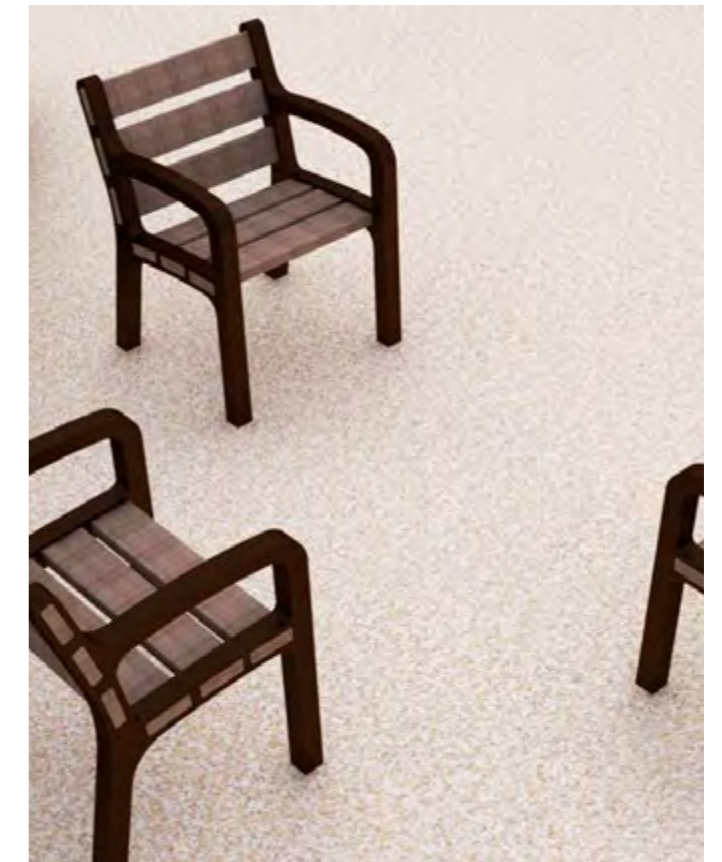
4.6 Proprietary seats - Individual armchairs

Located as per General Arrangement Plan

Desired finish:

- Size. Individual seat (600mm wide)
- FSC Certified hardwood.
- High quality galvanised steel, zinc thermal sprayed, polyester powder coated finish to RAL 8022

Quantity: 10 - 15 no. Seats.



4.7 Cycle stands

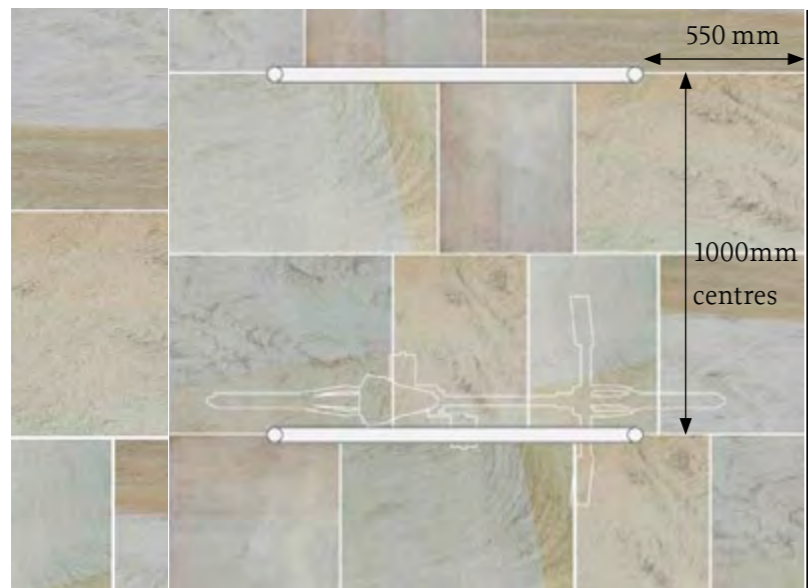
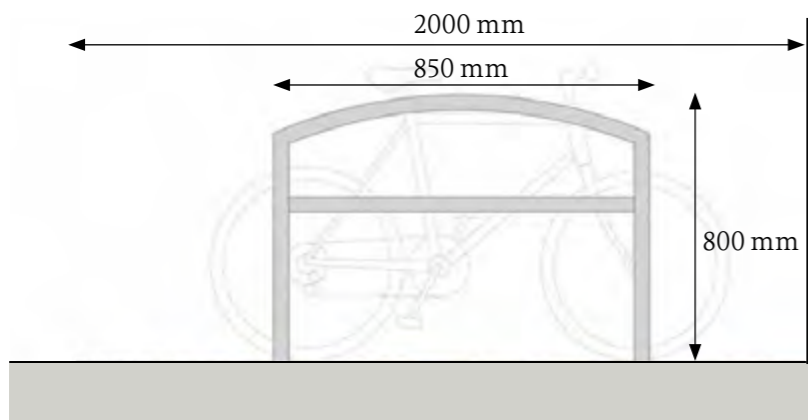
Located as per General Arrangement Plan

'Arc' Cycle stand

Desired finish:

- Stainless steel.
- Size. 48 mm Ø brushed tubular steel.

Quantity: 15 no.



Detail as shown in the City Public Realm Toolkit



4.8 Timber frames to Greyfriar's Garden

Located as per original timber frames

Hardwood timber frames - Replacement

Desired finish:

- FSC Certified hardwood.

Quantity: 10 no.



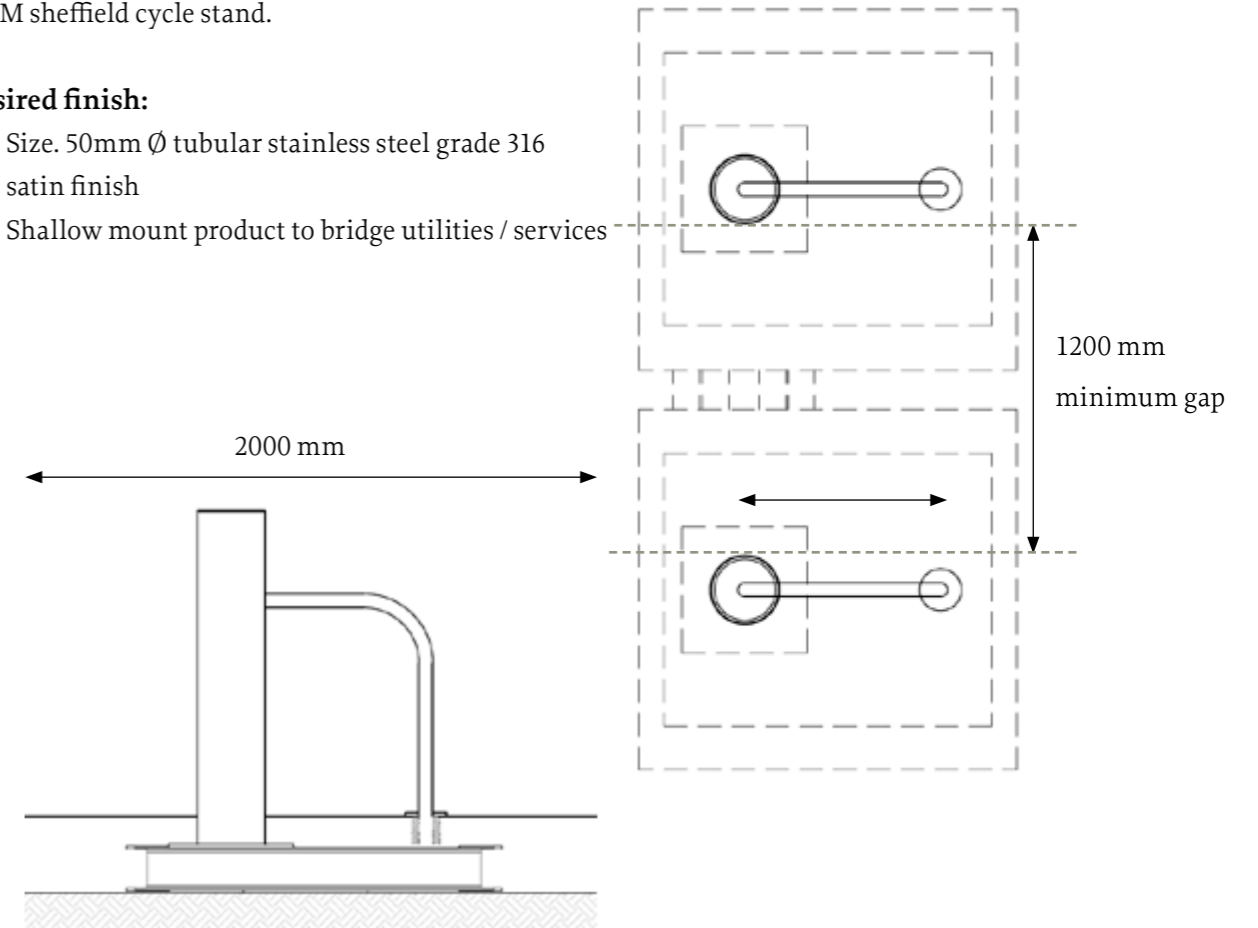
4.9 Pas 68 rated HVM cycle stands

Located as per General Arrangement Plan

HVM sheffield cycle stand.

Desired finish:

- Size. 50mm Ø tubular stainless steel grade 316
- satin finish
- Shallow mount product to bridge utilities / services





4.10 Demountable Pas 68 rated C3 City of London bollards

Located as per General Arrangement Plan

C3 bollard
Company - ATG

Desired finish:

- As per City of London design and specification

Quantity: 2 no.



4.11 Pas 68 rated C3 City of London bollards

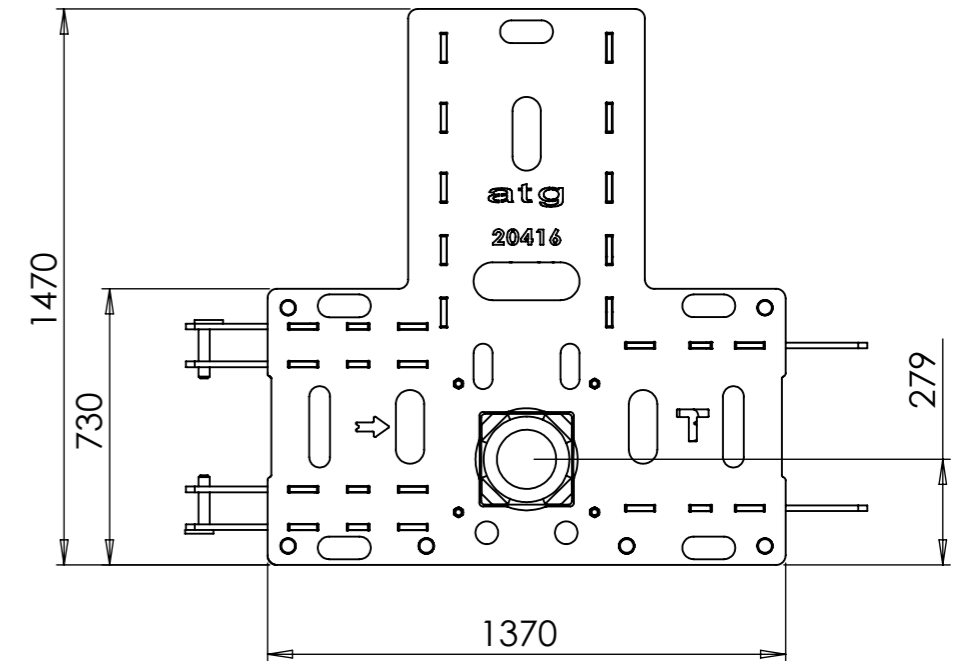
Located as per General Arrangement Plan

C3 bollard
Company - ATG

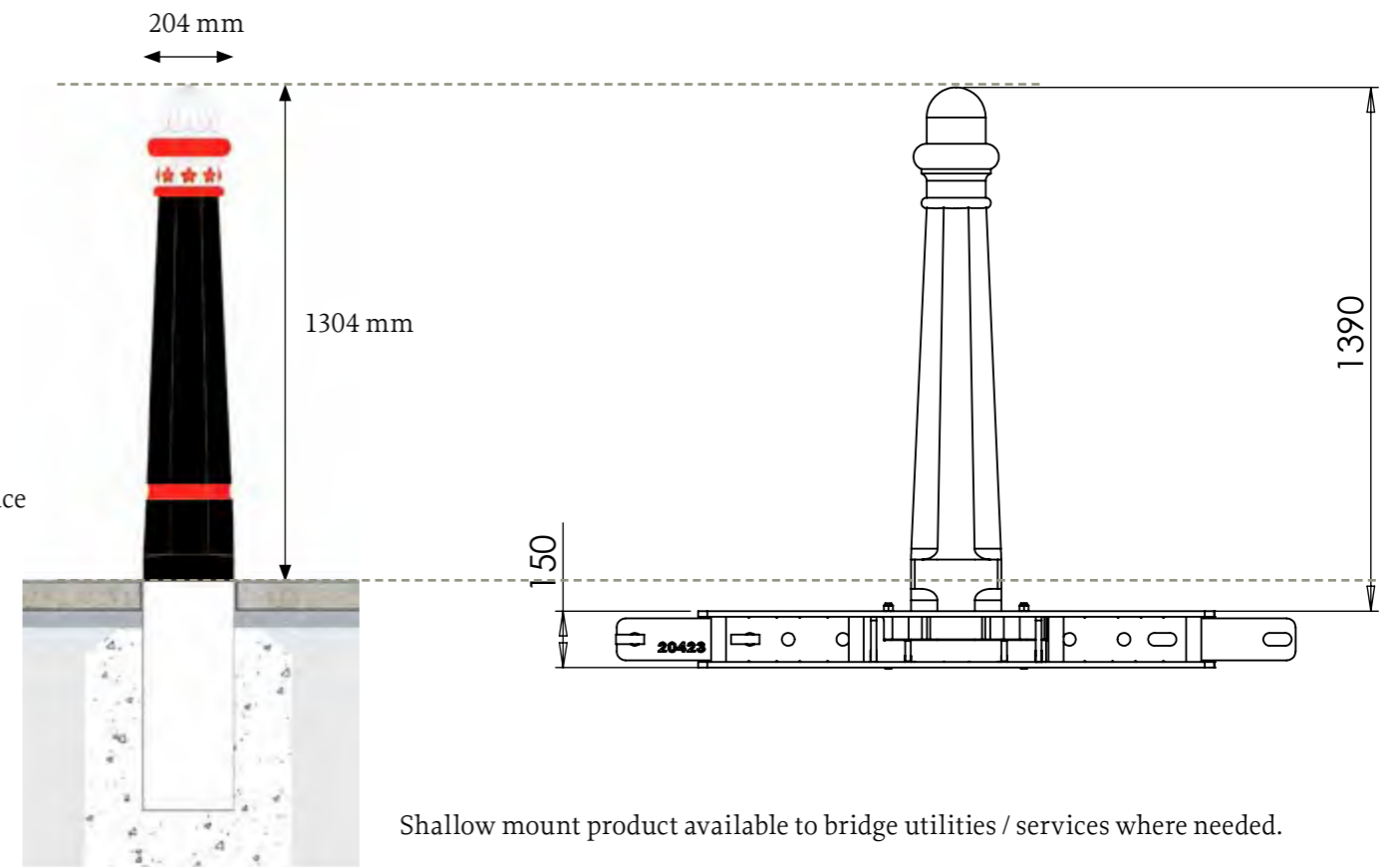
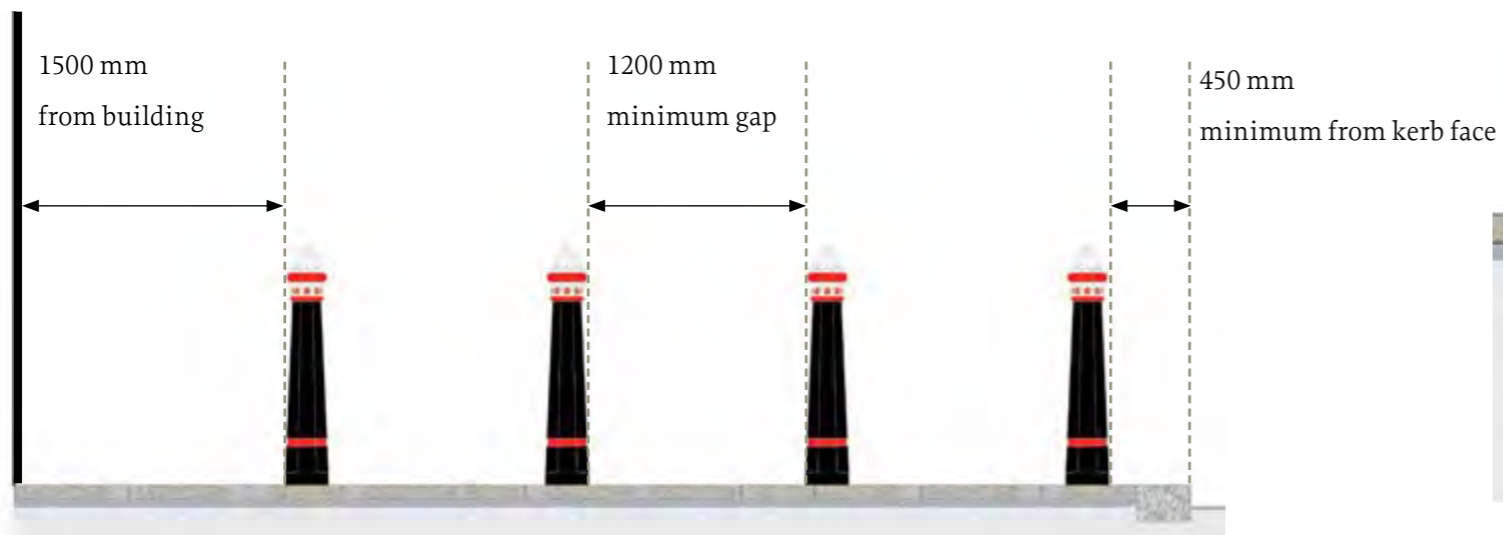
Desired finish:

- As per City of London design and specification

Quantity: 36 no.



204 mm



Shallow mount product available to bridge utilities / services where needed.

Detail as shown in the City Public Realm Toolkit

4.12 Arm rests

Located as per General Arrangement Plan

Aluminium bronze armrests as per St Paul's Cathedral (North Transept balustrade)

Desired finish:

- Aluminium bronze
- Type 01 - Free standing to timber tops.
- Type 02 - Integrated to timber tops with backrests.
- Type 03 - Reduced height to dining tables.

Quantity: total - 32 no.

Type 01 - 14 no.

Type 02 - 15 no.

Type 03 - 3 no.



North Transept staircase as reference finish - St Paul's Cathedral



4.13 Standpipes

Located as per General Arrangement Plan

Tower standpipe with 3/4 bib tap

Desired finish:

- Stainless Steel Grade 304 – 1.5mm thick
- Polyester powder coated finish to RAL 8022
- Size.106 x 106 x1470mm (720mm above ground, 750mm below ground)
- Fixing. Stabilising base plate 255 x 255mm
- As per City of London design and specification

Quantity: 3 no.



Detail as shown in the City Public Realm Toolkit

4.14 Demarcation studs

Located as needed - TBC in Stage 4 design

Inground studs

Desired finish:

- 40mm demarcation studs
- Brass finish with cross grip finish



●
4.15 Legible London Midilith

Located as per General Arrangement Plan

Midilith

Desired finish:

- As per City of London design and specification

Quantity: 2 no.



Detail as shown in the City Public Realm Toolkit

✘
4.16 Drinking fountain

Located as per General Arrangement Plan

Santa & Cole drinking fountain to play space.

Desired finish:

- Bronze tap
- Size. 1200 x 300 x 150 mm
- Painted to RAL 8022

Quantity: 1 no.

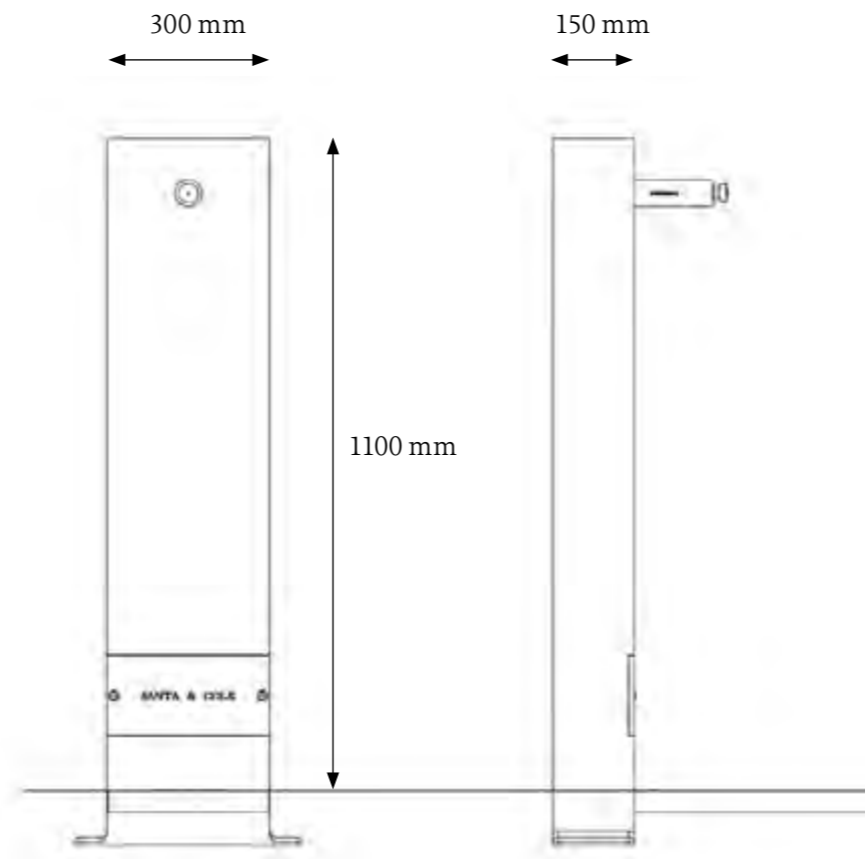


Detail as shown in the City Public Realm Toolkit

●
4.17 Events power
Located as per General Arrangement Plan

5 no. Events power points to lighting columns

To be developed in Stage 4 design in coordination with Lighting Designer / M+E



4.18 Heritage signage

Location to be confirmed.

- 3 no. heritage signs.
- Details / Size and shape to be determined with City of London and other stakeholders in Stage 4 design.



Photograph: Empreinte

5.0 Allee bridge walk



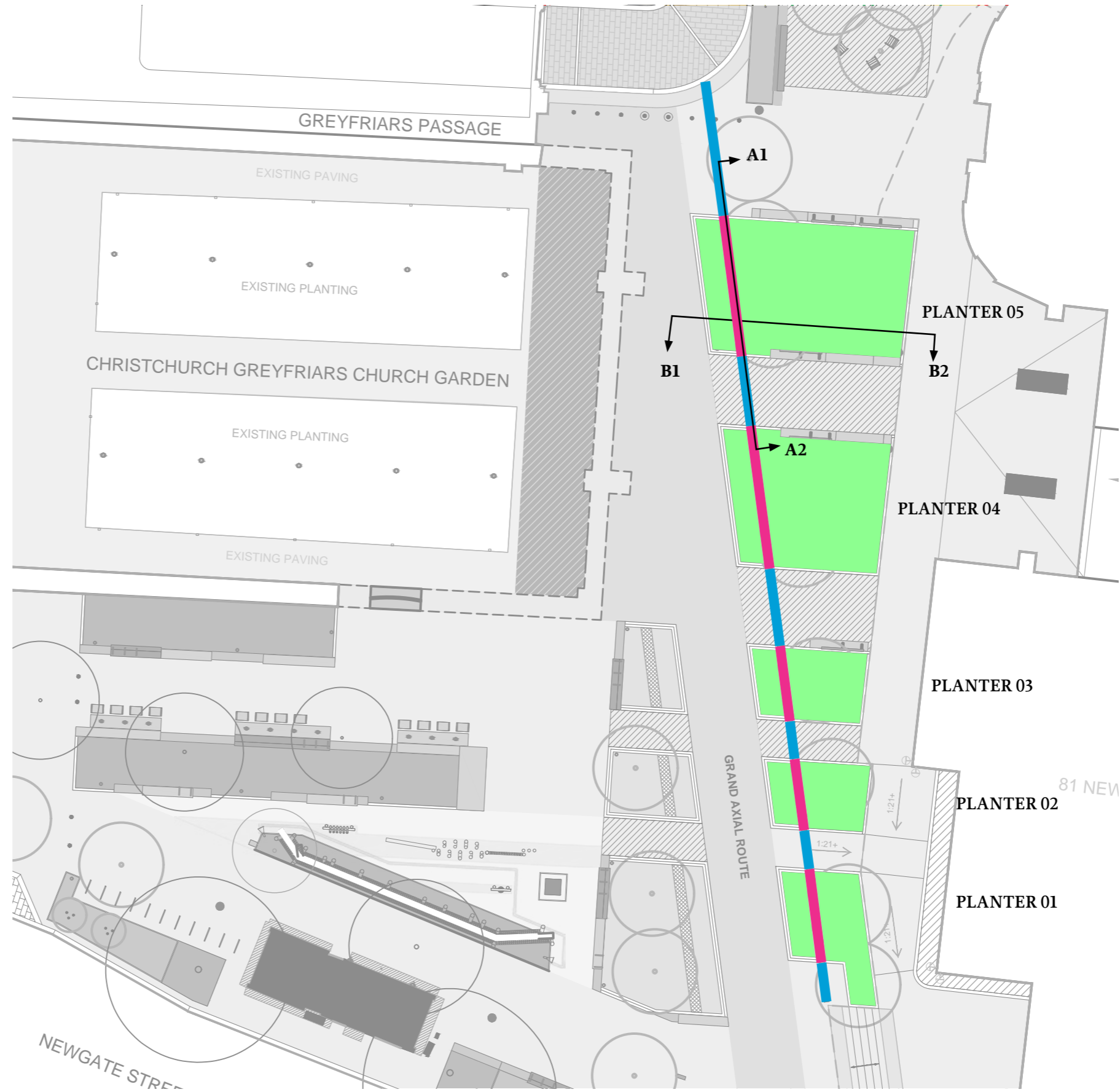
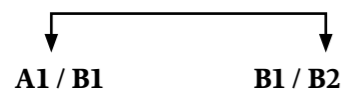
Thames Embankment granite blocks



In ground decorative extension



Sections - See 5.3



5.1 Thames Embankment granite blocks

Located as per General Arrangement Plan

Reconstituted granite blocks (see Thames to Eternity project)

Desired finish:

- Colour. Silver / white. As per existing granite
- Size. Varies - Blocks should be scheduled and categorised in RIBA Stage 4.
- Liaison with specialist stone mason will determine cutting schedules.
- All edges to be smooth.
- To be laid parallel to Grand Axial Route
- Finish to the tops / treads of stones to be considered to mitigate the collection of water and detritus. (Treatment / reshaping of stones - As a part of Stage 4 design).

Quantity: To be determined in RIBA Stage 4.

5.2 Inground decorative granite extension

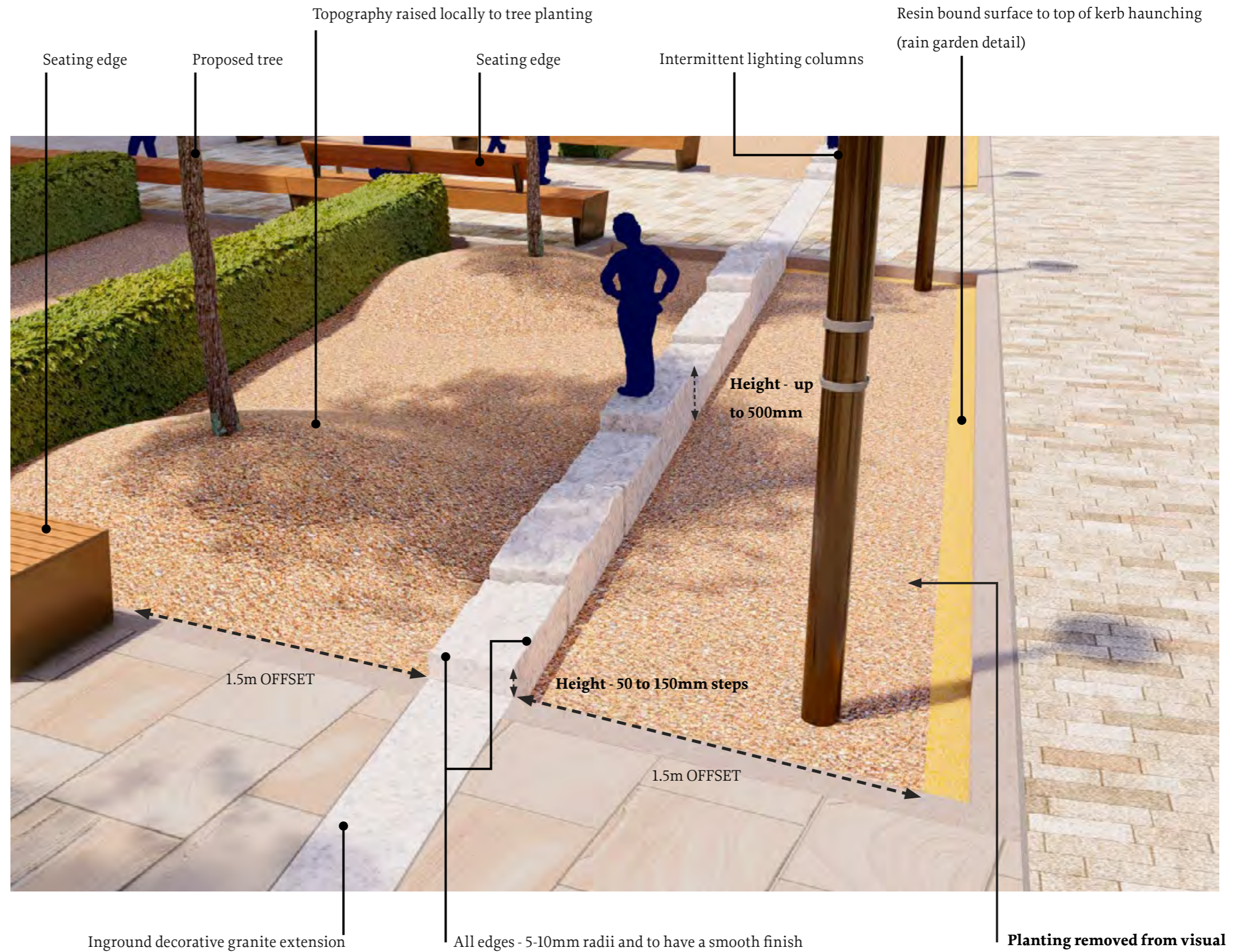
Located as per General Arrangement Plan

Granite paving to continue flush to paving surface

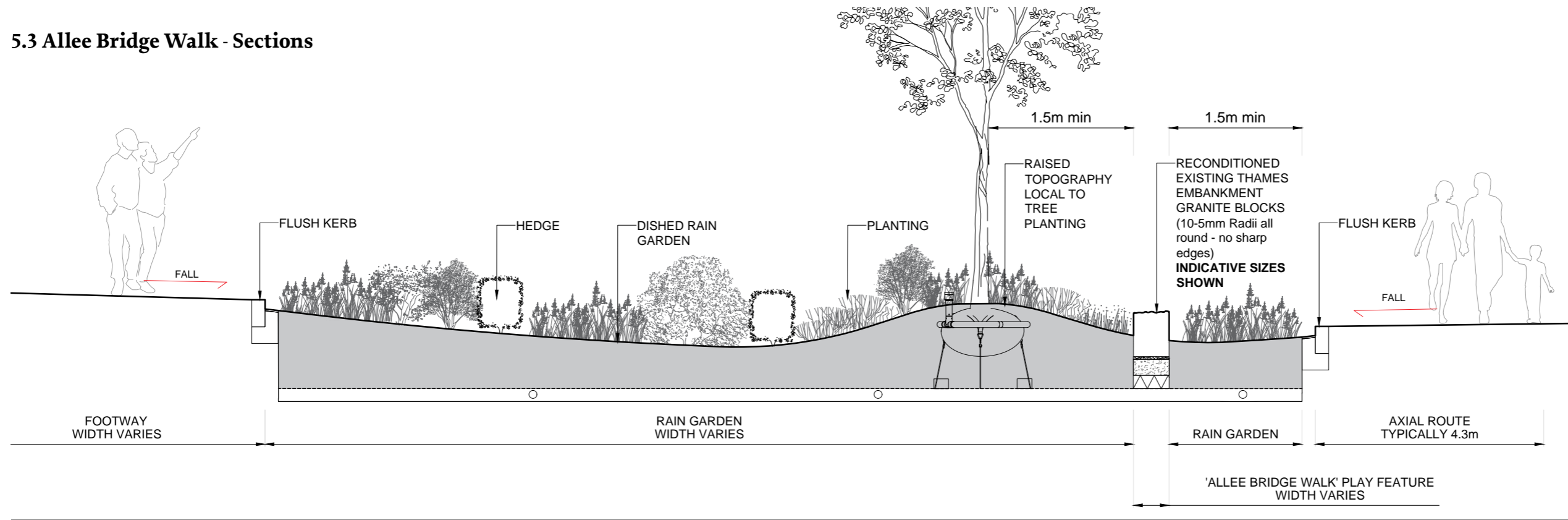
Desired finish:

- Flamed top surface
- Colour. Silver / white granite.
- Size. Varies - Widths to match Thames Embankment granite blocks.
- All edges to be smooth.
- Flush joints - 6/8mm, rigid construction.
- Surface sealant to be applied.
- Diamond sawn (all sides).

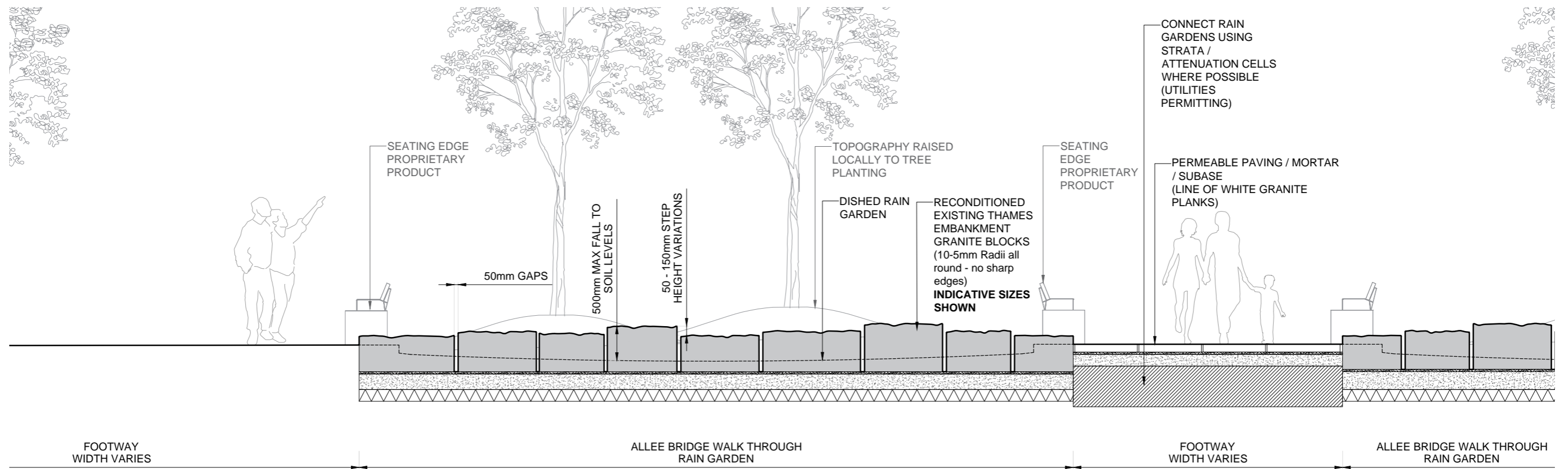
Quantity: As shown on General Arrangement plan.



5.3 Allee Bridge Walk - Sections



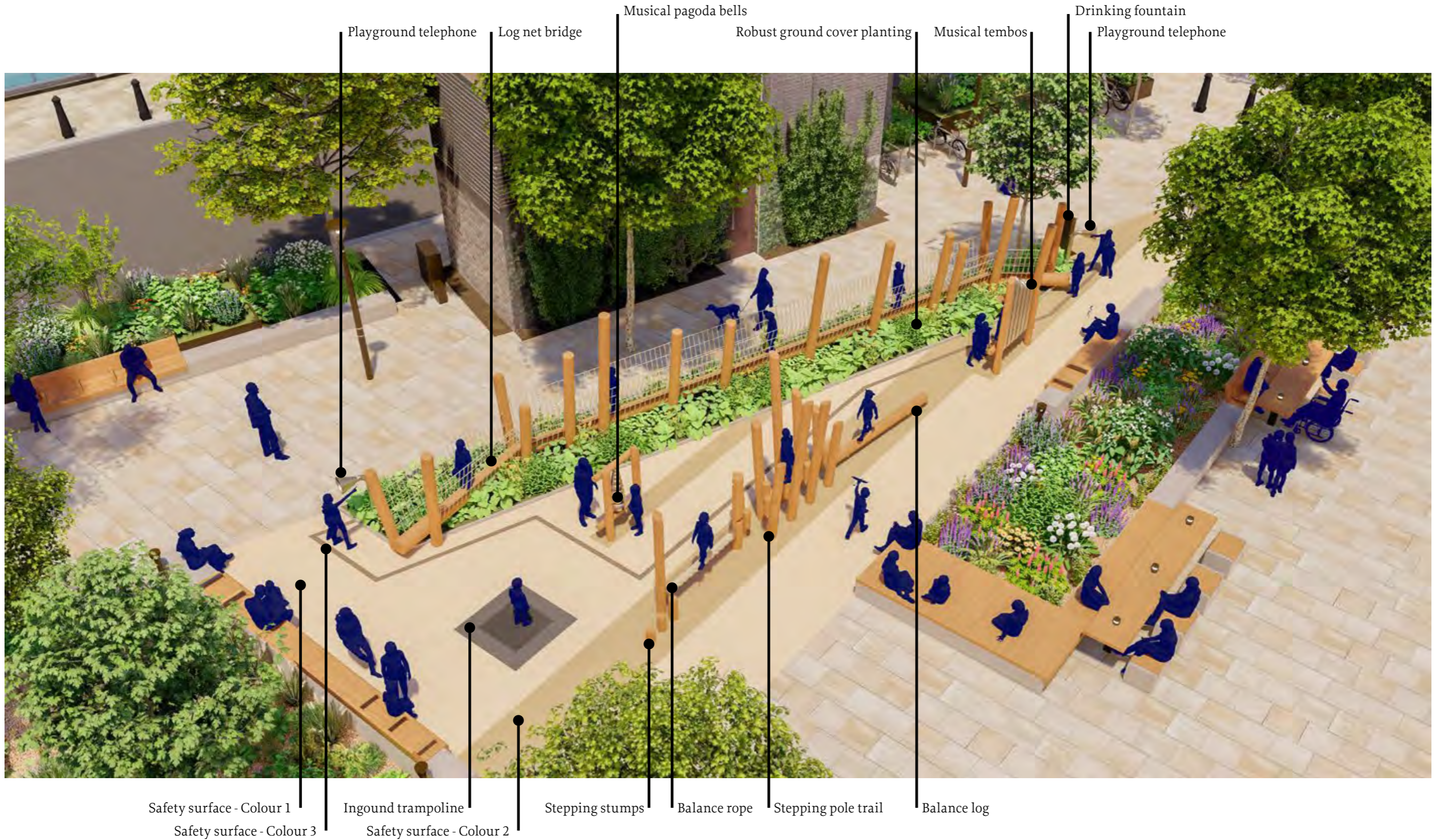
Section A1 - A2



Section B1 - B2

Note: All below ground / foundation details to engineers design and specification

6.0 Play space



Safety surface - Refer to 2.7

Play Strategy

Play strategy to be developed in RIBA Stage 4.

Coordination with a Play Specialist / Manufacturer required, to maximise playability, develop technical design and determine a robust arrangement that fully coordinates with safety regulations and any relevant below ground issues identified in that stage.



Allocated play space



6.1 Playground telephone

Located as per General Arrangement Plan

Playground telephone is designed so children can talk to each other across the play space.

Desired finish:

- Colour. Brushed stainless steel
- Size. Area Required: 0.7 x 0.4m
- Warranty - with steel footings: 30 years
- Age 2+

Quantity:

2no. Telephones



6.2 Musical tembos

Located as per General Arrangement Plan

Musical tembos consist of a hardwood frame, with a beater and 6 different sized tubes which each give off their own unique note.

Desired finish:

- Colour. Brushed stainless steel
- FSC Certified hardwood.
- Area Required: 1.9m x 0.5m
- Warranty - with steel footings: 30 years
- Age 2+

Quantity:

1no.



6.3 Musical pagoda bells

Located as per General Arrangement Plan

Musical pagoda bells consist of a hardwood frame, with a beater and 8 different sized bells which each give off their own unique note.

Desired finish:

- Colour. Brushed stainless steel
- FSC Certified hardwood.
- Area Required: 1.2m x 0.4m
- Warranty - with steel footings: 30 years
- Age 2+

Quantity:

1no.



6.4 Balance log

Located as per General Arrangement Plan

Balance log consists of a natural timber pole held in position with galvanised steel legs.

Desired finish:

- Galvanized steel legs
- FSC Certified hardwood.
- Area required. (L) varies x (W)3.3m
- Critical Fall Height: 0.4m
- Warranty - with steel footings: 30 years
- Age 2+

Quantity:

1no.



6.5 Stepping stumps

Located as per General Arrangement Plan

Stepping stumps are natural timber poles cut to various sizes and work best in a cluster.

Available in a range of diameters and lengths.

Desired finish:

- FSC Certified hardwood.
- Area required. (L) varies x (W)3.3m
- Critical Fall Height: 0.4m
- Warranty - Timber in ground contact: 15 years
- Age 2+

Quantity:

3 - 6 no.



6.6 Balance rope

Located as per General Arrangement Plan

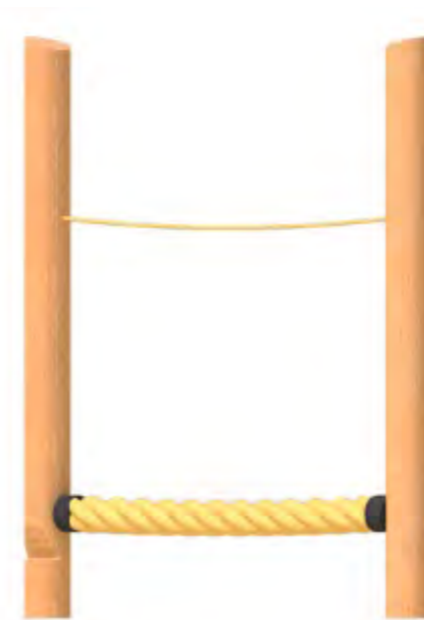
Balance rope consists of two natural timber poles and a large horizontal wire reinforced balance rope as well as a smaller rope to hold. This is designed to allow children to walk along

Desired finish:

- FSC Certified hardwood.
- Area Required: 5.4m x 3.2m
- Critical Fall Height: 0.6m
- Warranty - Timber in ground contact: 15 years
- Age 4+

Quantity:

1 no.



6.6 Stepping poles trail

Located as per General Arrangement Plan

Stepping poles trail consists of a range of natural timber poles with additional stepping stumps bolted on acting as footholds. This is designed to allow children to traverse along

Desired finish:

- FSC Certified hardwood.
- Area Required: 5.3m x 3.4m
- Critical Fall Height: 1.0m
- Safety surfacing required.
- Age 4+
- Warranty - Stainless steel fixings: 30 years
- Warranty - Timber out of ground contact: 20 years
- Warranty - Timber in ground contact: 15 years
- Warranty - Moveable metal parts: 2 years

Quantity:

1 no.



6.7 Log net bridge

Located as per General Arrangement Plan

Log net bridge consists of a large diameter natural timber pole, timber uprights and a wire reinforced polypropylene net either side for safety.

Desired finish:

- FSC Certified hardwood.
- Size. Custom
- Critical Fall Height: 0.3m
- Age 2+
- Warranty - Stainless steel fixings: 30 years
- Warranty - Timber out of ground contact: 20 years
- Warranty - Timber in ground contact: 15 years
- Warranty - Moveable metal parts: 2 years
- Wire reinforced ropes: 2 years

Quantity:

1 no.



6.8 Inground trampoline

Located as per General Arrangement Plan

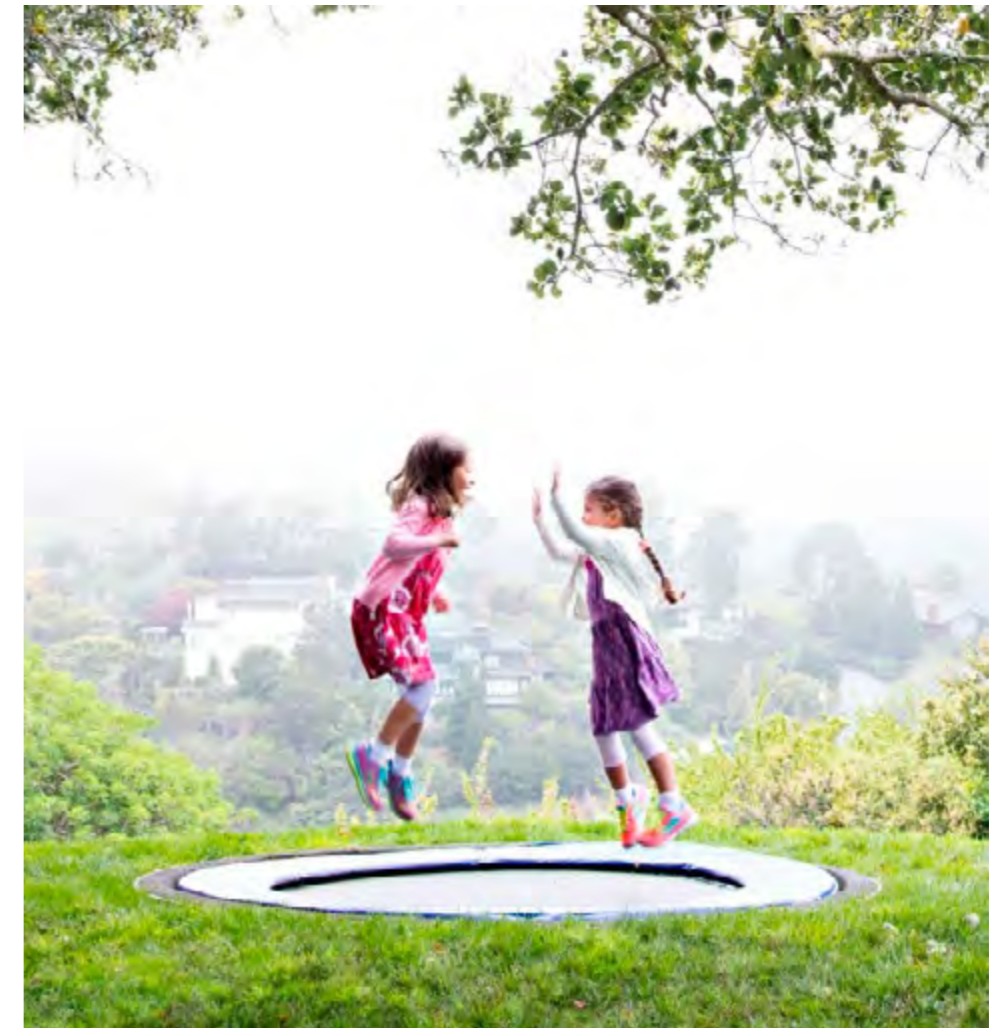
Inground trampoline conforms to EN1176 - Playground Equipment Safety Standard and is resistant to vandalism. The jump mat is very robust and can be used with shoes. This trampoline is also suitable for wheelchair use.

Desired finish:

- Size - 940 x 940mm
- Safety surfacing required - 2m offset
- Age 2+
- Rubber protection bar
- Jumping bed made of PVC-coated lattice fabric
- Warranty - 3 years

Quantity:

1 no.








7.0 Planting Strategy

7.1 Indicative tree planting

Located as per General Arrangement Plan

Trees and plants have been selected for climate resilience and to reinforce the special, distinctive identity of different character areas as shown in Section 1.

Quantity:

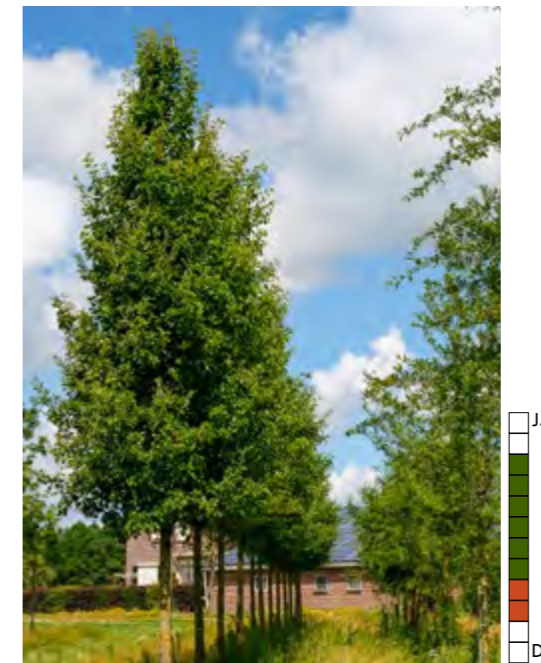
-  10 no. multi stem trees to raised planters
-  4 no. Feature trees to Monastic Gardens / Play space
-  3no. Specimens suitable for placement on top of basement (fastigate habit to protect views to St Paul's Cathedral)
-  8 no. Trees to Axial Route (fastigate habit to protect views to St Paul's Cathedral)
-  3 no. Acer rubrum Karpick to Gateway Entrance Space



Acer rubrum Karpick
Hard standing
growing to approx. Height 15 - 20m
Width 4 - 6m



Tilia heterophylla prestige
Rain garden
growing to approx. Height 12-15m
Width 5-6m
On top of basement (supplied in air pots)



Pyrus chanticleer
Rain garden
growing to approx. Height 8-12m
Width 4-6m
On top of basement (supplied in air pots)



Ulmus 'New Horizon'
Rain garden
growing to approx. Height 12m
Width 8m



Acer campestre 'Red Shine'
Rain garden + Hard standing
growing to approx. Height 8-10m
Width 4-5m



Magnolia kobus
Hard standing only
growing to approx. Height 10-12m
Width 6-8m



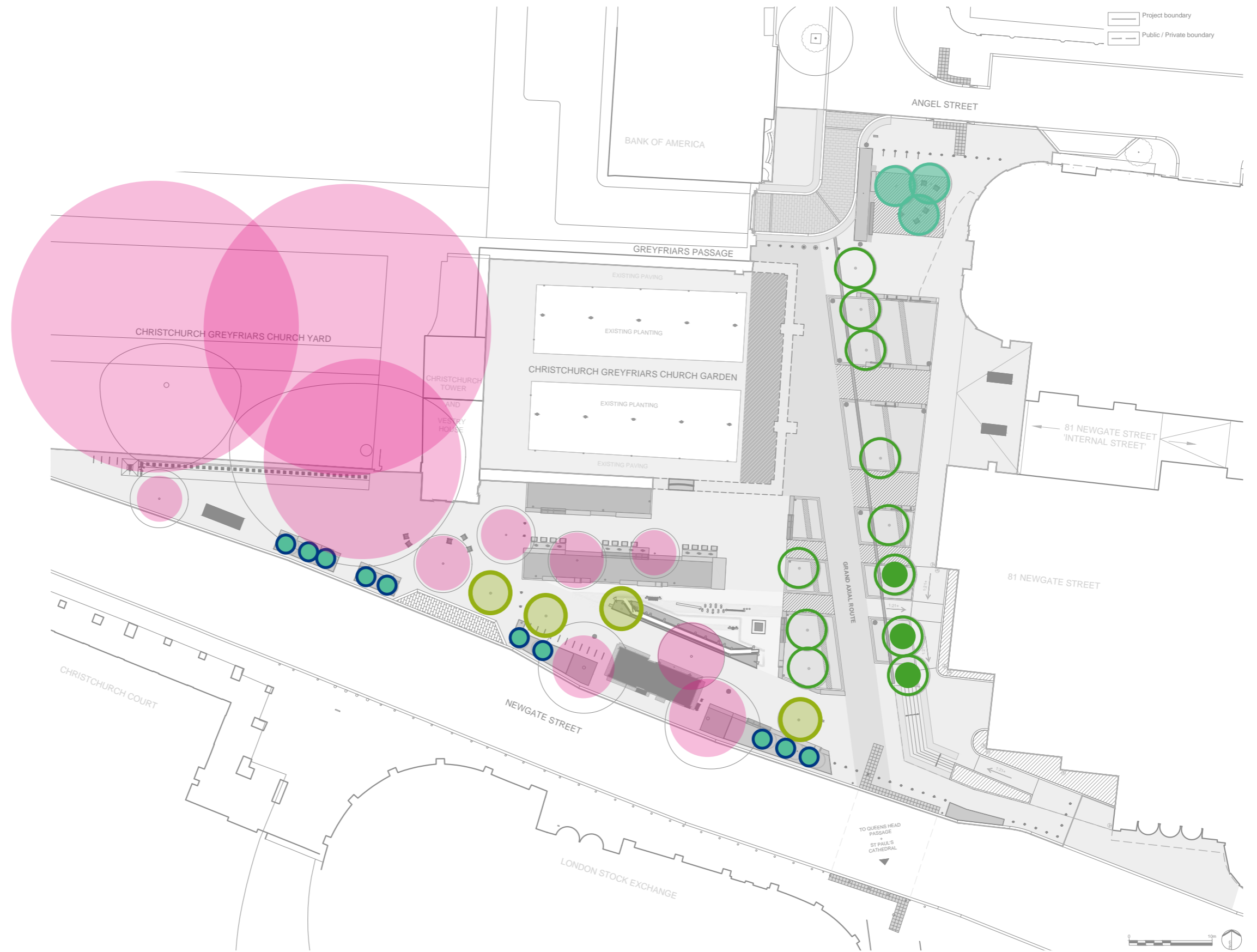
Prunus cerasifera 'Nigra'
Raised planter
growing to approx. Height 6-8m
(growth will be restricted when contained)



Prunus 'Accolade'
Raised planter
growing to approx. Height 6-8m
(growth will be restricted when contained)



GREYFRIAR'S SQUARE



GREYFRIAR'S SQUARE

HERBACEOUS & GRASSES

Ajuga reptans

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Alchemilla mollis

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Anemone x hybrida
'Honore Jobert'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Baptisia alba var.
macrophylla

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Baptisia australis
'Purple Smoke'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Bistorta amplexicaulis
'Alba'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Bistorta officinalis
'Superba'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Achillea filipendulina
'Coronation Gold'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Echium vulgare

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Gaura lindheimeri
'Whirling Butterflies'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Geranium macrorrhizum

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Geranium malviflorum

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Geranium pratense

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Hylotelephium
'Herbstfreude'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Miscanthus sinensis
'Ferner Osten'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Nassella tenuissima

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Nepeta x faassenii

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Pennisetum alopecuroides
'Hameln'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Perovskia
'Blue Spire'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Phlomis russeliana

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Rudbeckia fulgida var.
sullivantii
'Goldsturm'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Salvia verbenaca

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Succisa pratensis

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Verbena bonariensis

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Vinca minor
'Atropurpurea'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Stachys byzantina
Big Ears

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Hakonechloa macra

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

BULBS

Crocus x cultorum
'Jeanne D'arc'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Camassia
'Cusickii'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Galanthus nivalis

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Fritillaria imperialis
'Lutea'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

SHRUBS

Cornus alba
'Sibirica'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Euonymus alatus
'Compactus'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

Aronia arbutifolia
'Brilliant'

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

HEDGE

38 *Carpinus betula*

Plant characteristics: Drought (D), Pollinator (P), Evergreen (E), Drought Friendly (DF), Conservation (C), Pollinator (P), Evergreen (E).

- Drought Friendly Plant (listed in RHS Book by Tony Hall)
- London Biodiversity Action Plan - Priority Species & Species of Conservation Concern - Waiting List
- RHS Plants for Pollinators
- Evergreen Plants

Images credit: HPS (Hardy Plant Society)

GREYFRIAR'S SQUARE

7.2 Garden Grid

Indicative species

Rain gardens - full sun / partial shade



HERBACEOUS & GRASSES



Echinops ritro
'Veitch's Blue'



Agastache 'Blue Fortune'



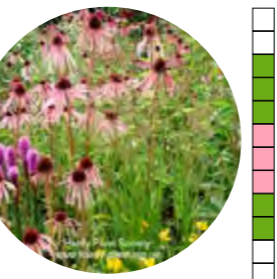
Armeria maritima



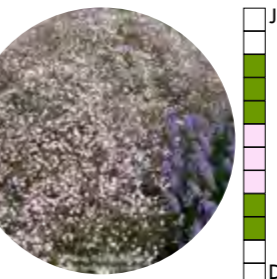
Aster 'Asran'



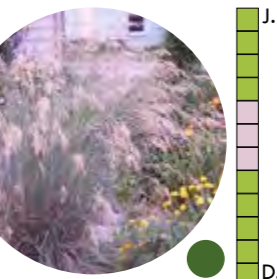
Calamintha 'White Cloud'



Echinacea pallida



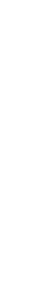
Gypsophila paniculata
'Rosenschleier'



Helictotrichon sempervirens



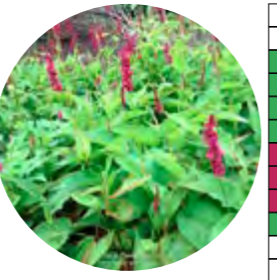
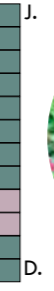
Liatris spicata



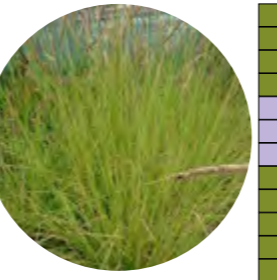
Origanum laevigatum
'Herrenhausen'



Panicum 'Heavy Metal'



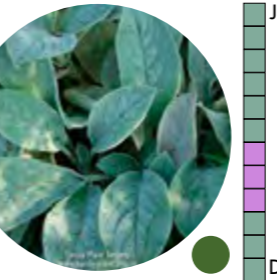
Persicaria amplexicaulis
'Firetail'



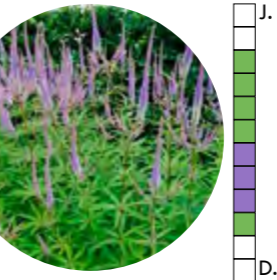
Sesleria
'Greenlees Hybrid'



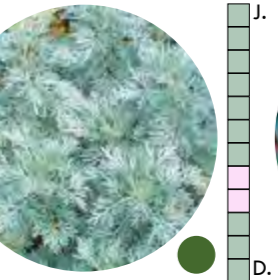
Sisyrinchium striatum



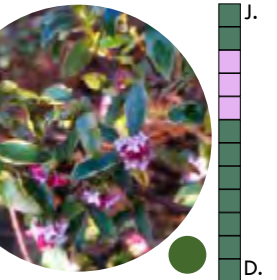
Stachys byzantina Big Ears



Veronicastrum 'Red Arrows'



Artemisia 'Boughton Silver'



Daphne odora
'Aureomarginata'



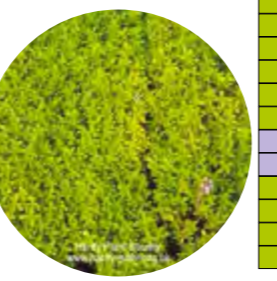
Geranium macrorrhizum



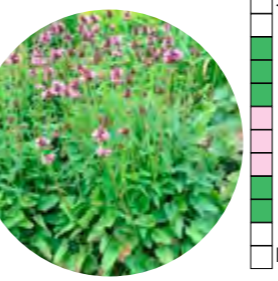
Lavandula angustifolia



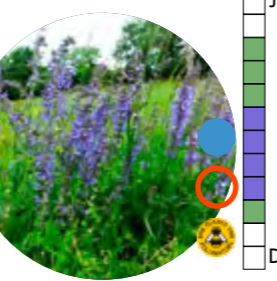
Salvia officinalis



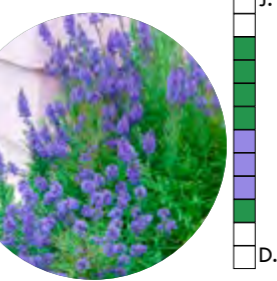
Thymus vulgaris



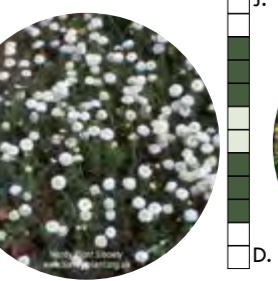
Stachys officinalis



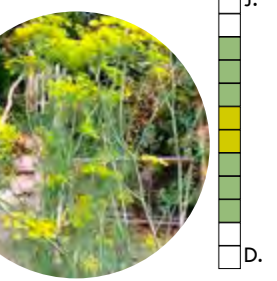
Salvia verbenaca



Hyssopus officinalis



Chamaemelum nobile



Anethum graveolens



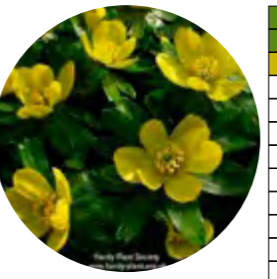
BULBS



Allium nigrum



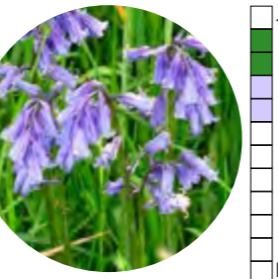
Crocus tommasinianus
'Whitewell Purple'



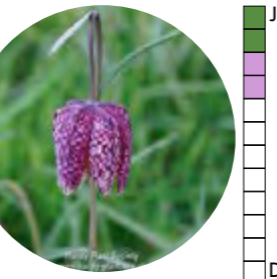
Eranthis hyemalis



Anemone nemorosa



Hyacinthoides non scripta



Fritillaria meleagris



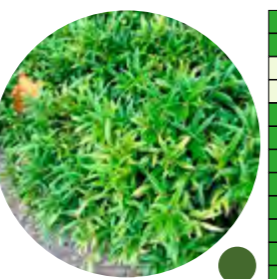
SHRUBS



Hydrangea quercifolia



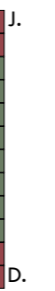
Cornus sanguinea 'Midwinter Fire'



Sarcococca humilis



Rosmarinus officinalis



HEDGE



Carpinus betula



- Drought Friendly Plant (listed in RHS Book by Tony Hall)
- London Biodiversity Action Plan - Priority Species & Species of Conservation Concern - Waiting List
- RHS Plants for Pollinators
- Evergreen Plants

Images credit: HPS (Hardy Plant Society)

7.3 Monastic Gardens

Indicative species

Standard inground planters - full sun / partial shade



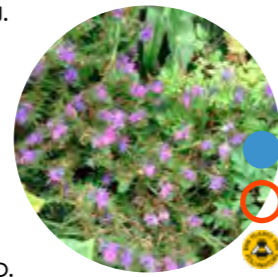
HERBACEOUS & GRASSES



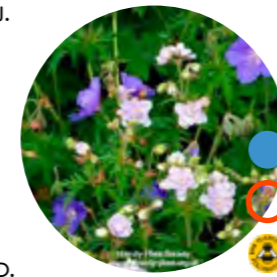
Alchemilla mollis



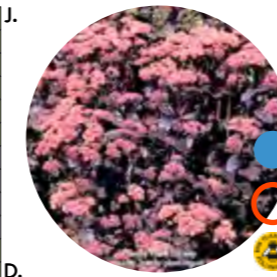
Bergenia 'Silberlicht'



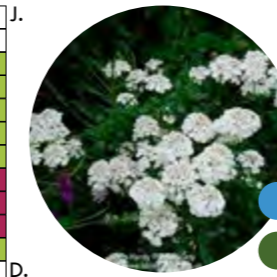
Echium vulgare



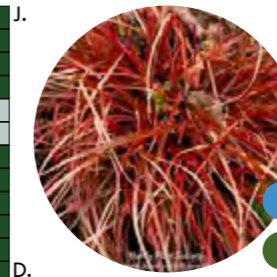
Geranium pratense



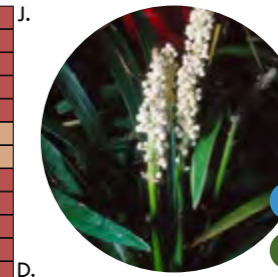
Hylothelephium telephium 'Purple Emperor'



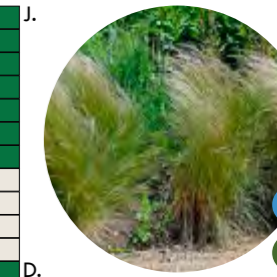
Iberis gibraltarica



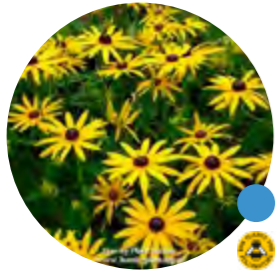
Libertia peregrinans



Liriope muscari 'Monroe White'



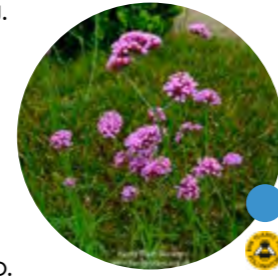
Nassella tenuissima



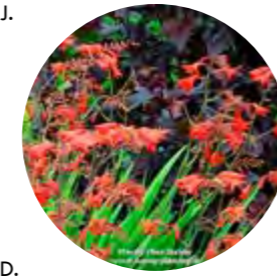
Rudbeckia fulgida var. sullivantii 'Goldsturm'



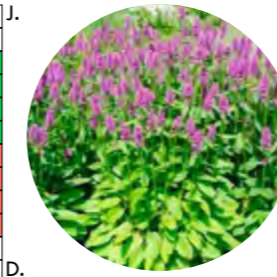
Salvia verbenaca



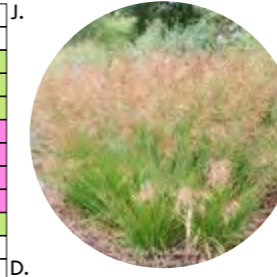
Verbena bonariensis



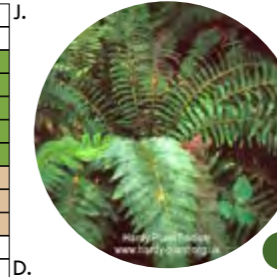
Crocosmia 'Yellow Emberglow'



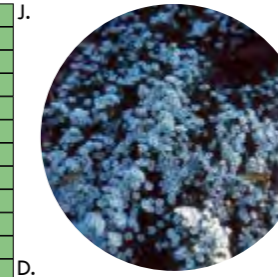
Stachys officinalis 'Hummelo'



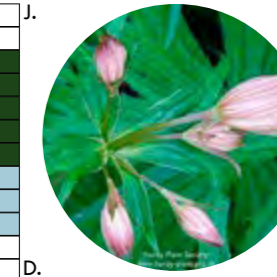
Molinia caerulea 'Edith Dudszus'



Polystichum aculeatum



Aster divaricatus



Astrantia major subsp. involucrata 'Shaggy'



Ajuga reptans



Buglossoides purpurocaerulea



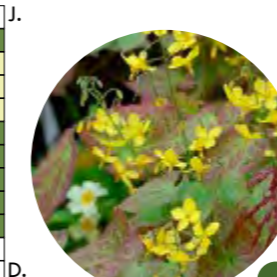
Carex oshimensis 'Eversheen'



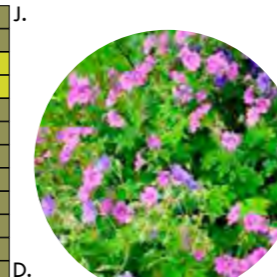
Dryopteris filix mas



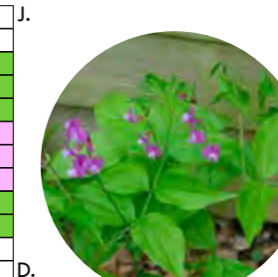
Primula vulgaris



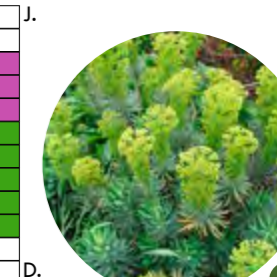
Epimedium x perralchicum 'Fröhnleiten'



Geranium 'Sirak'



Lathyrus vernus



Euphorbia characias subsp. wulfenii



BULBS



Allium nigrum



Galanthus nivalis



Fritillaria imperialis 'Lutea'



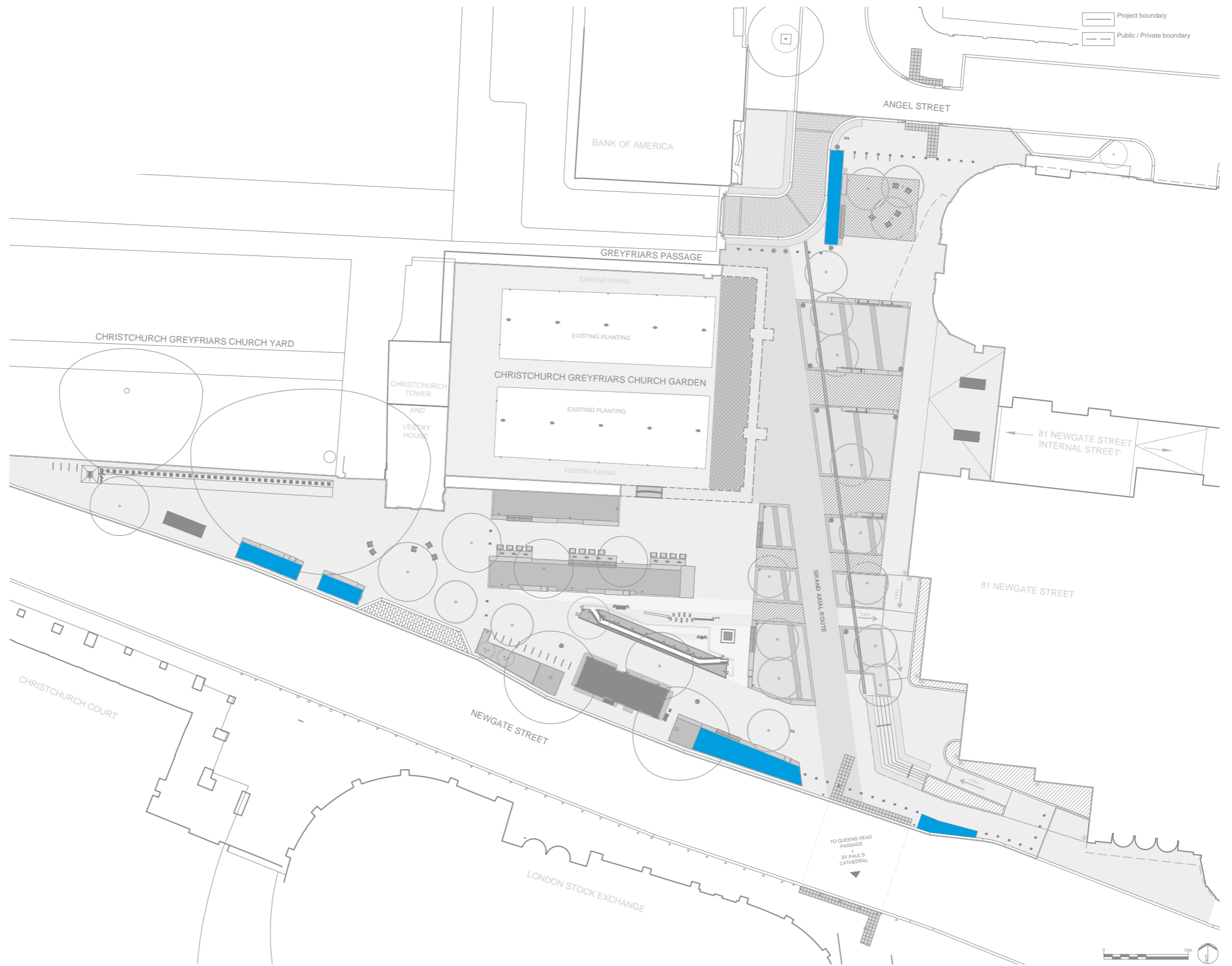
- Drought Friendly Plant (listed in RHS Book by Tony Hall)
- London Biodiversity Action Plan - Priority Species & Species of Conservation Concern - Waiting List
- RHS Plants for Pollinators
- Evergreen Plants

7.4 Raised planters



Indicative species

600m high raised planters - full sun / partial shade



HERBACEOUS & GRASSES



Euphorbia amygdaloides
var. *robbiae*



Dryopteris filix mas



Matteuccia struthiopteris



Molinia caerulea 'Edith
Dudsus'



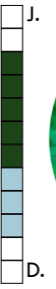
Polystichum aculeatum



Sanguisorba tenuifolia
'Alba'



Aster divaricatus



Astrantia major subsp.
involucrata 'Shaggy'



Asplenium scolopendrium



Brunnera macrophylla



Epimedium x perralchicum
'Fröhnleiten'



Geranium 'Sirak'



Geranium phaeum 'Raven'



Lathyrus vernus



Primula vulgaris



Omphalodes verna



Fragaria vesca



Carex oshimensis 'Eversheen'



Ajuga reptans



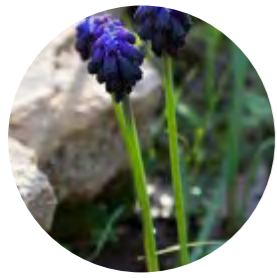
Buglossoides purpureocaerulea



Stachys officinalis 'Hummelo'



BULBS



Muscari neglectum



Galanthus nivalis



Galium odoratum



Anemone nemorosa



Hyacinthoides non
scripta



ROBUST GROUND COVER PLANTING



Pachysandra terminalis
'Green Carpet'



Sarcococca humilis



Bergenia cordifolia
'Purpurea'



Liriope muscari 'Monroe
White'



- Drought Friendly Plant (listed in RHS Book by Tony Hall)
- London Biodiversity Action Plan - Priority Species & Species of Conservation Concern - Waiting List
- RHS Plants for Pollinators
- Evergreen Plants

7.5 Raised / inground planters

Indicative species

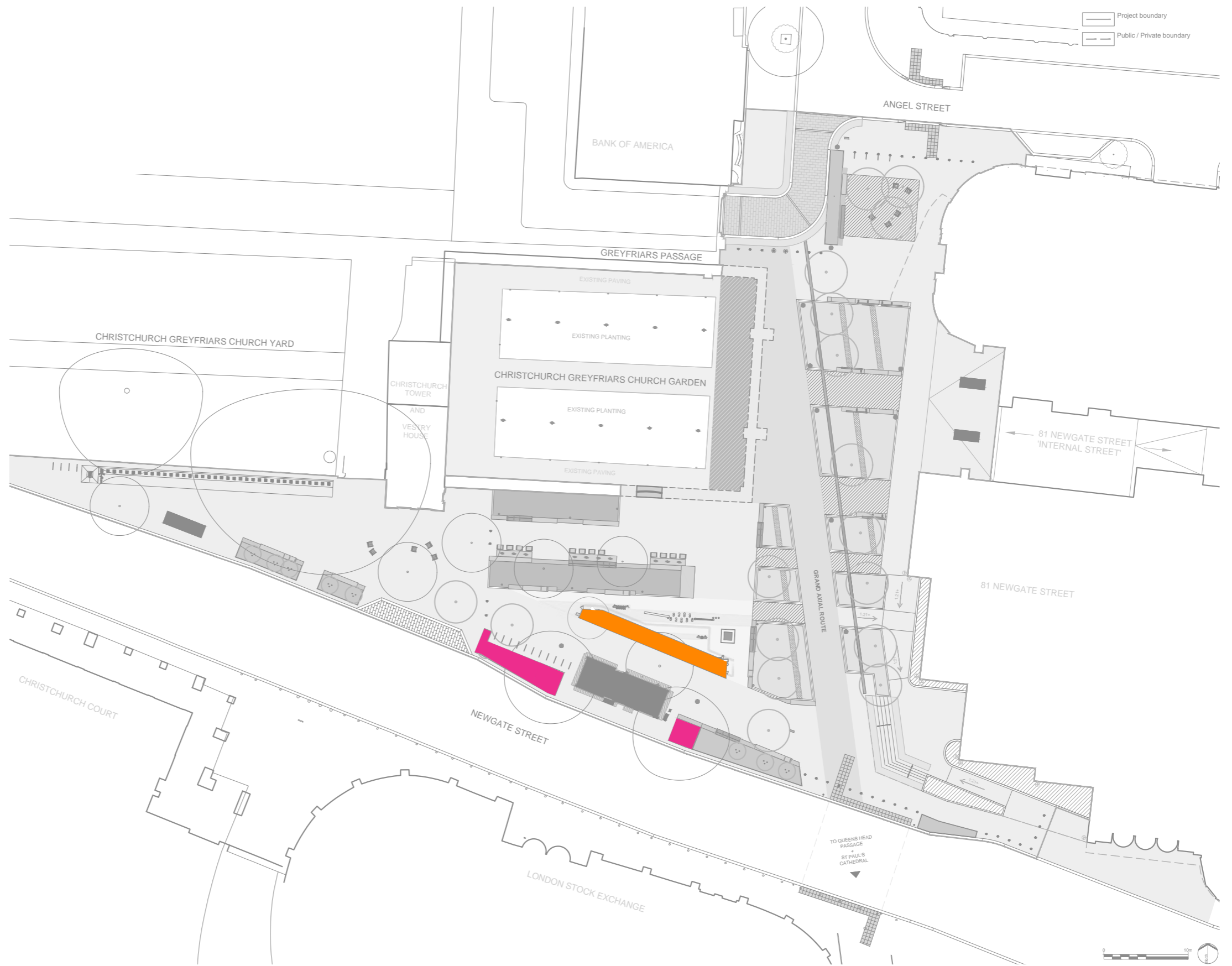
600mm high raised planters - Shade / partial shade

Inground planters - Shade / partial shade

7.6 Inground planter to Play Space

Indicative species

Robust ground cover planting



7.6 Standard City of London tree grille

Located to all trees in hard standing

Recessed cover with Yorkstone infill

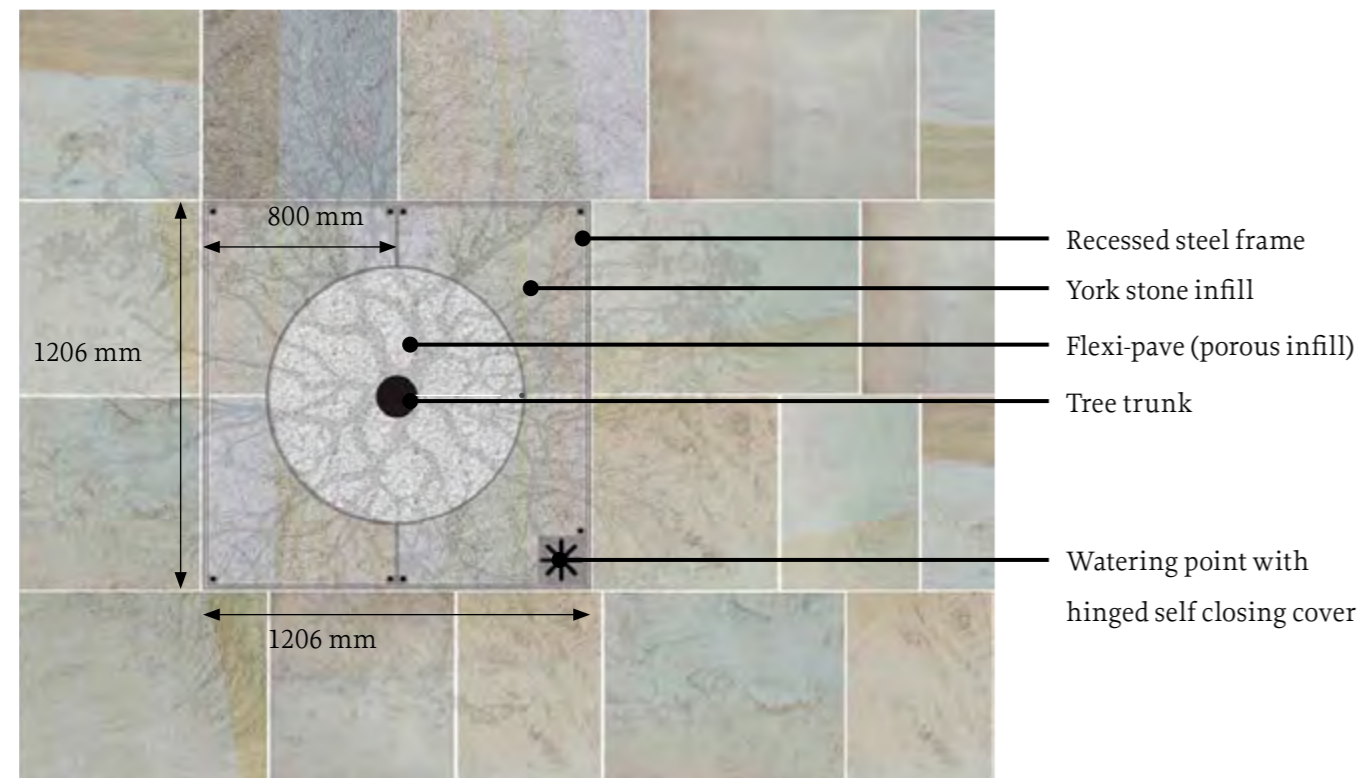
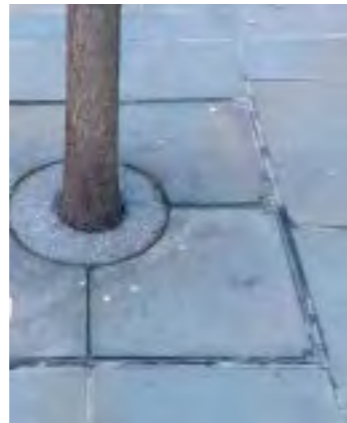
Desired finish:

- Colour. Silver / white. As per existing granite
- Size. 1206 x 1206 mm with 800 mm Ø circular opening.
- Finish. Hot dipped galvanised
- KBI Flexi-pave colour 'London Grey'

Quantity:

7 no. to new trees

4 no. to existing trees



Detail as shown in the City Public Realm Toolkit

7.7 Tree pits / Soil specification / Underground guying / Attenuation - Soil cells

See Pluviam Specification:

10195.001 St Pauls Greyfriars Square SuDS Substrate Specification

See Pluviam drawing:

PN0160-PEL-XX-XX-DR-Y-01 S3 SUDS Layout and Details

7.8 Planting rules

The different depths of growing medium do not make a difference for the perennials and other ground layer plants. Therefore there is no differentiation between the ground layer mixes for both.

Base of hedging to be free of planting. Plants to be located with an offset of 300mm from the hedgeline.

Shrub species to be randomly placed, avoiding straight lines, within 1m of edge of planting areas or hedging. Shrubs to be located as single plants.

Planting to be in groups of min. 3 and max. 9. Species to be randomly placed, avoiding straight lines. Random drifts not to be planted parallel with neighbouring drifts.

Taller/ structural plants (e.g. shrubs & tall grasses) to be located first to ensure a good even spread across the planting areas. Flowering plants/ medium height plants to be located after this, with groundcover plants being located last to fill in between the remaining spaces.

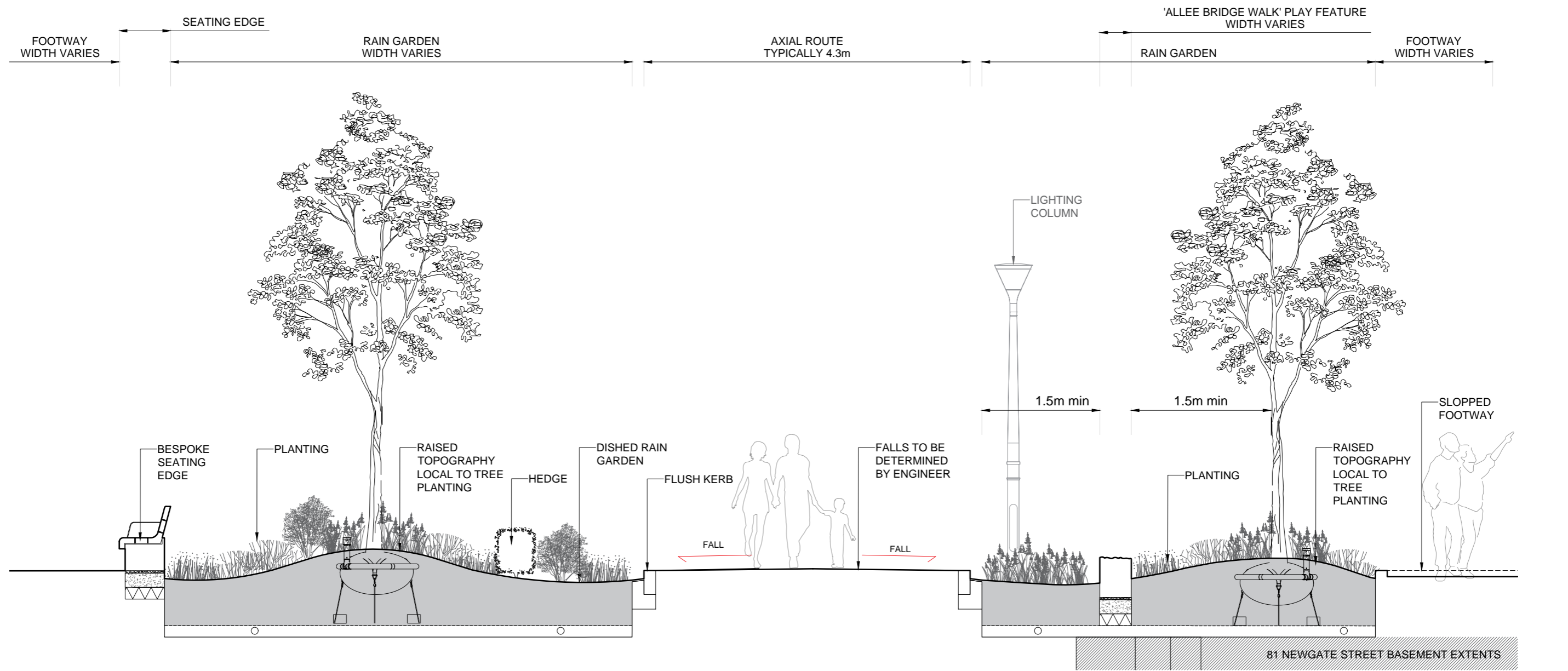
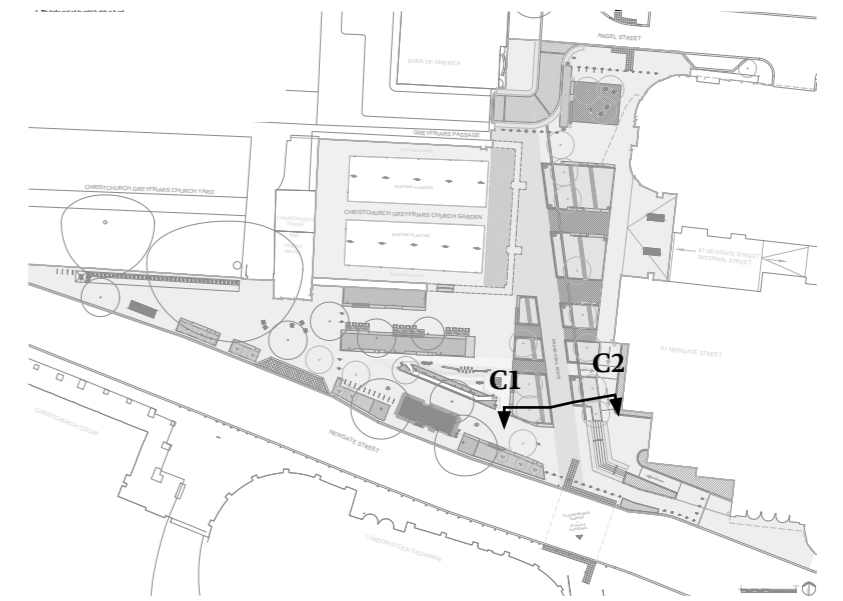
Taller/ structural plants to be located at least 1m away from hedgeline.

7.9 Plants

Times of year for planting

- Deciduous trees and shrubs: Late October to late March.
- Conifers and evergreens: September/ October or April/ May.
- Herbaceous plants (including marginal): September/ October or March/ April.
- Container grown plants: At any time if ground and weather conditions are favourable.
- Watering and weed control: Provide as necessary.
- Dried bulbs, corms and tubers: September/ October.
- Colchicum (crocus): July/ August.
- Green bulbs: After flowering in spring.
- Wildflower plugs: Late August to mid November or March/ April.

7.10 Typical rain garden section - overview (through Axial Route)



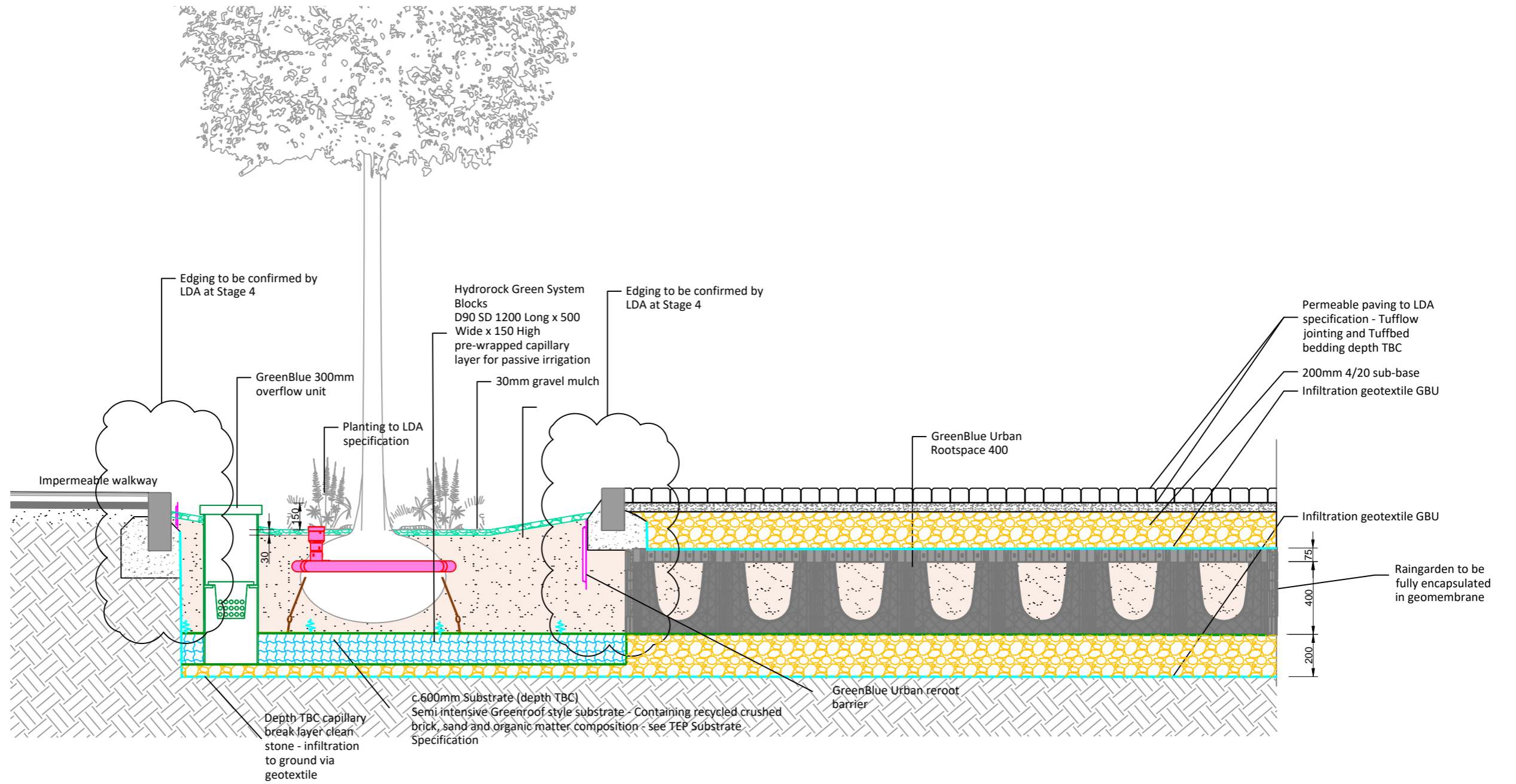
Section 1 - C1 - C2 Typical rain garden section through Axial Route

Note: All below ground / foundation details to engineers design and specification

7.11 Typical rain garden section and soil cells

Drawing: Pluviam

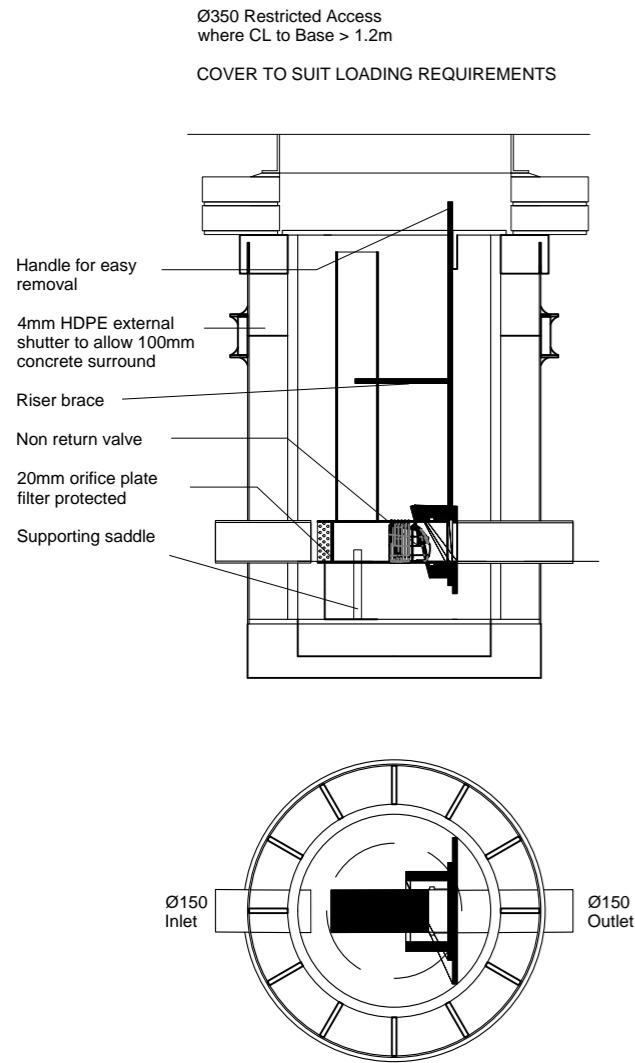
PN0160-PEL-XX-XX-DR-Y-01 S3 SUDS Layout and Details



7.12 SEL 500mm CSO NRV Chamber

Drawing: Pluviam

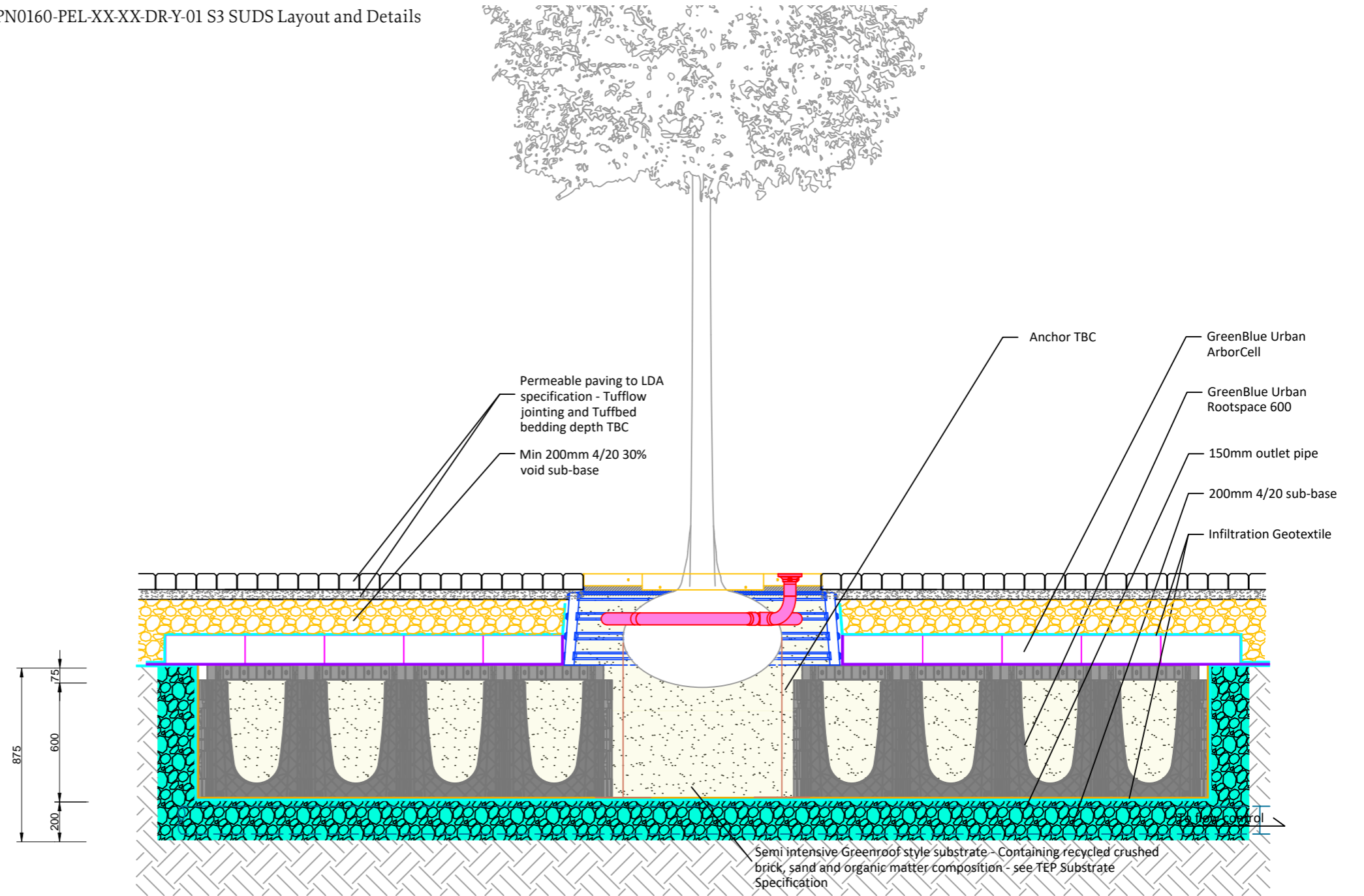
PN0160-PEL-XX-XX-DR-Y-01 S3 SUDS Layout and Details



7.13 Typical section in hard landscape

Drawing: Pluviam

PN0160-PEL-XX-XX-DR-Y-01 S3 SUDS Layout and Details



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