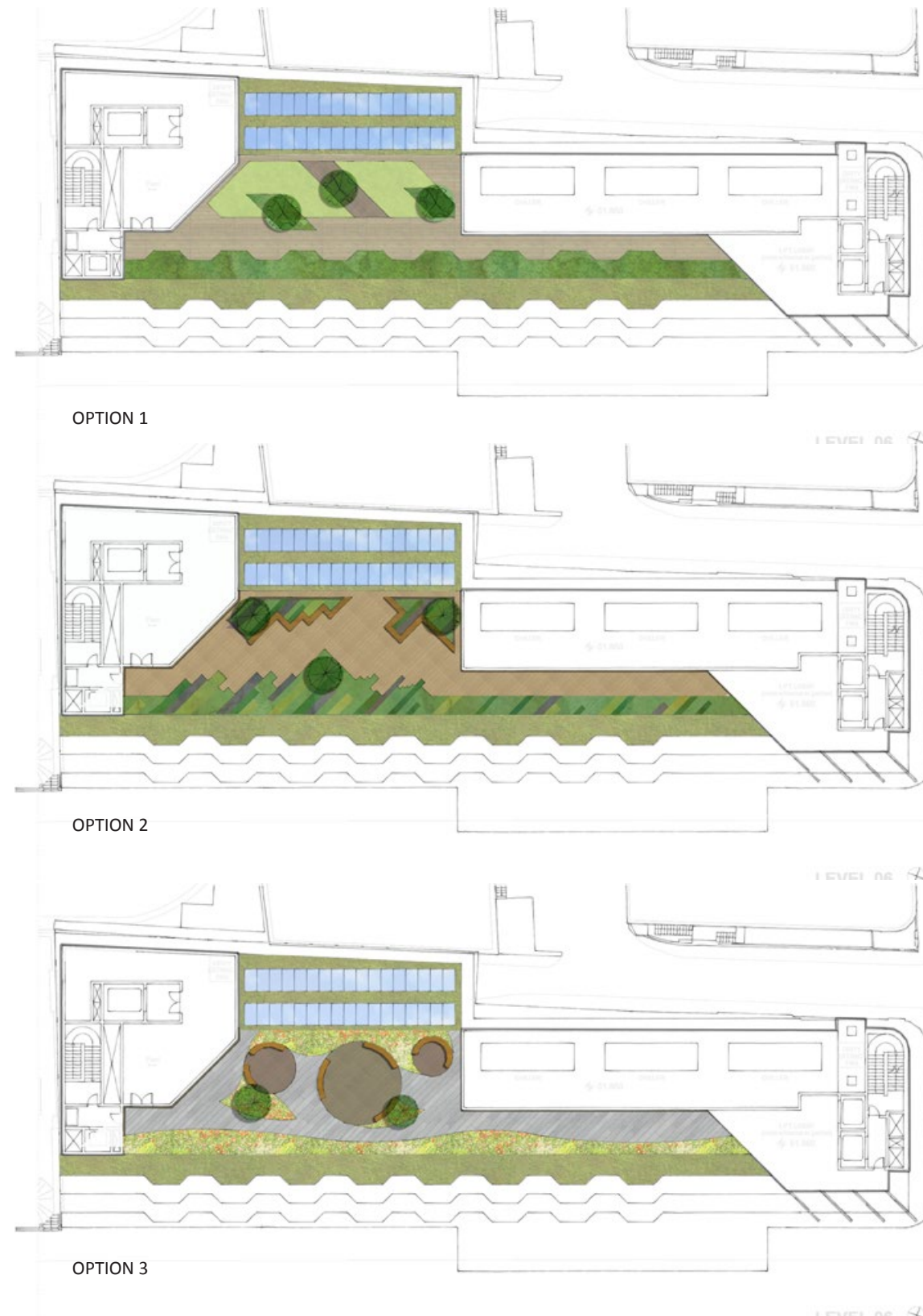


5.0 The Proposal

5.12 Landscaping Appraisal Concept Development



The proposal by the Landscape Agency acknowledges the London Borough of Camden's key aspirations and guidelines and try to enhance the noticeable lack of native habitat, which limits the neighbourhood's biodiversity.

OPTION 1

- Hardwood timber decking.
- Large area of artificial grass for informal recreation and seating.
- Central deck platform.
- Planting build outs reflecting the architecture of the building whilst creating informal, more intimate spaces with potential for linear tree planting and additional seating.

OPTION 2: PREFERRED OPTION

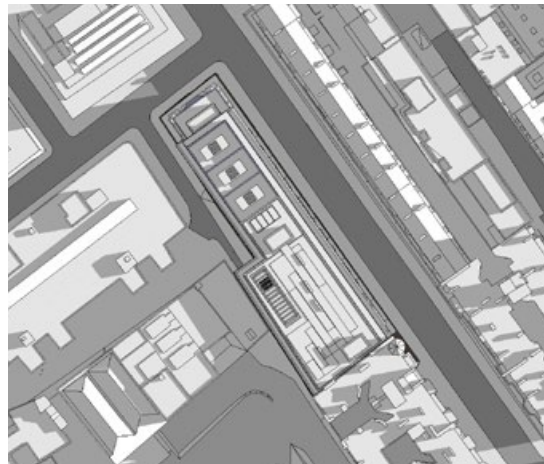
- Hardwood timber decking with staggered edging.
- Linear planting echoing built form.
- Feature tree planting.
- Timber raised planters with integrated seating.

OPTION 3

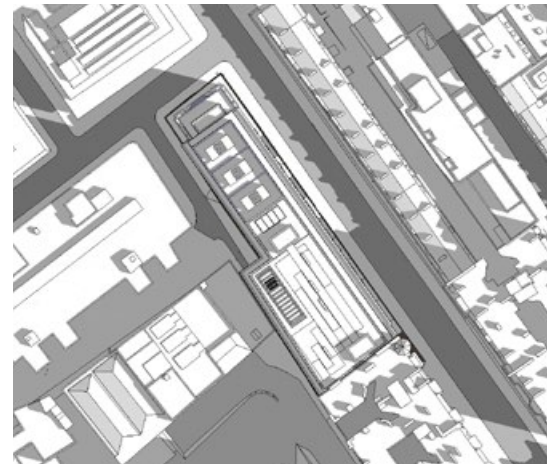
- Linear paving.
- Circular gathering spaces enclosed by curved in-built seating.
- Hardwood decking to define circular gathering spaces.
- Swathes of colourful meadow planting.
- Naturalistic Silver Birch trees providing height and vertical structure.

Concept analysis plans

5.0 The Proposal
5.12 Landscaping Appraisal
Shade Analysis



1 June 0730



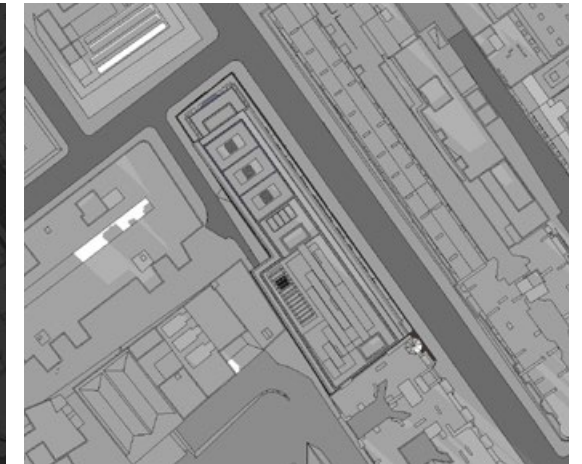
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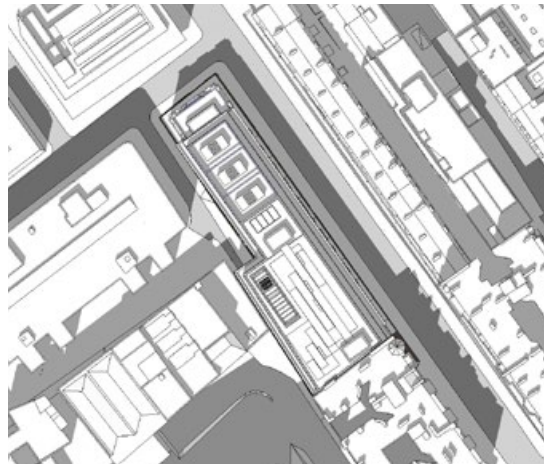
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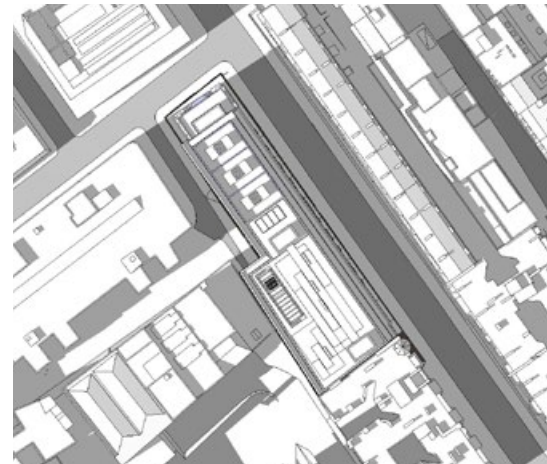
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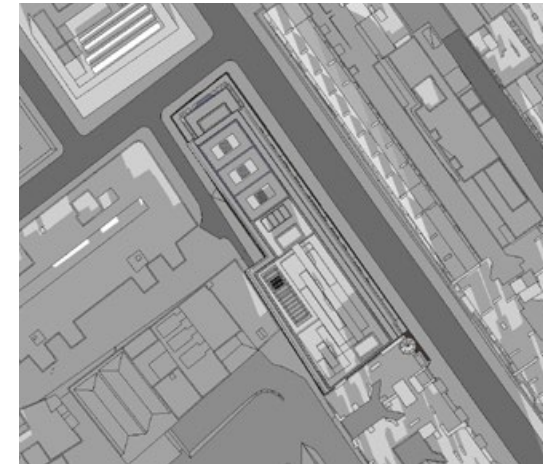
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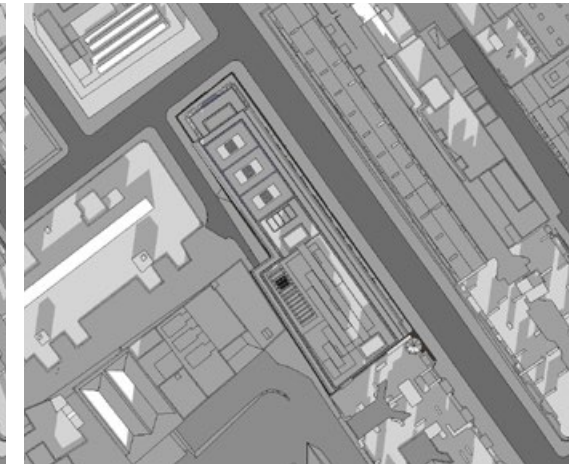
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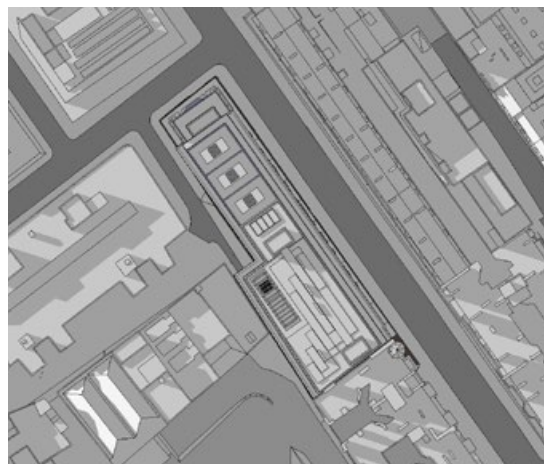
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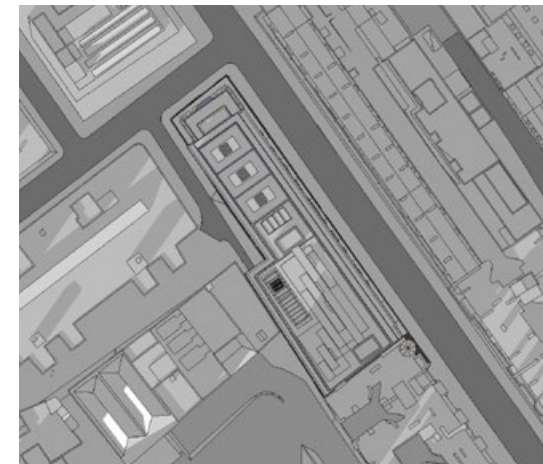
1 December 1330



1 June 1930



1 June 2130



1 December 1530



1 December 1730

Shading diagrams





Aspirations

SPACE FOR SITTING AND MEETING
ROOF TERRACE
GREENING
SKY RISE
GREENGETAWAY
VARIED PLANTING
COLOURS AND TEXTURES
ENJOYABLE OUTDOOR SPACE
REFRESHING ENVIRONMENT
URBAN BIODIVERSITY
MICRO HABITAT

5.0 The Proposal

5.12 Landscaping Appraisal Design Principles

Broad aspirations

- Create a space for contemplation, privacy, respite and temporary escape.
- The Great Ormond Street Hospital roof terrace is recognised as successful roof space to draw inspiration from.
- Ensure proposals do not encourage overlooking of adjacent residential properties on Huntley Street.
- Ensure patient and user safety is considered and minimise opportunities for access to the perimeter of the terrace.
- Ensure a modest solution is explored which does not compete with views of the wider London setting.
- Maximise opportunities to appreciate views of the City.
- Ensure that any potential landscape structures or canopies do not create the impression of an additional level to the building.
- Promote the branding of the roof space as a terrace and not a garden to manage expectations.

Use

- Provide opportunities for privacy to discuss or digest personal or challenging situations.
- Integrate seating as a key feature.
- Consider that the terrace could host functions or events for the hospital.

Form

- Promote plant species which provide year round animation.
- Encourage the use of plant species with texture, scent and colour to stimulate users.
- Ensure proposals are more than architectural statements.
- Continue the building materials palette into the terrace.
- Where appropriate reference the proposed architecture in the terrace.

Micro-climate

- Ensure shade, shelter and acoustic conditions are addressed and an appealing and usable space is developed.
- Specify appropriate plant species which will thrive in this micro-climate.
- Where possible ensure planting proposals are not heavily dependent on watering.
- Ensure seasonal variations in weather are considered in this exposed setting.

Access and maintenance

- Ensure circulation is clear, permeable and intuitive.
- Ensure planting proposals are low maintenance and species are drought tolerant.



Garden roof plan concept



Aspirations

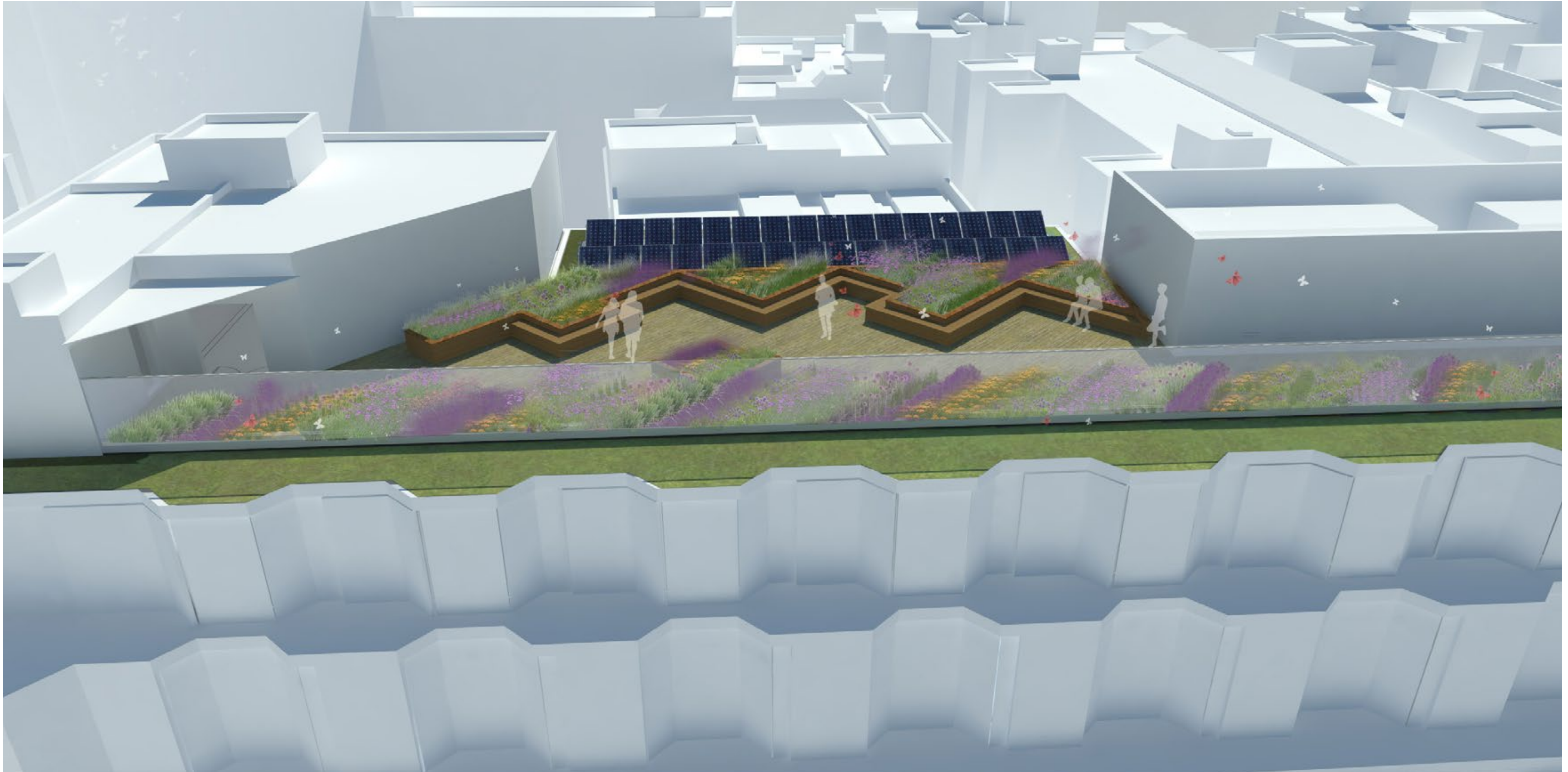
KEY

- 1 HARDWOOD DECKING
To roof terrace deck
- 2 LINEAR GRANITE TILING
To lift lobby
- 3 RAISED PLANTERS/SEATING EDGE
Timber retaining wall with integrated seating edge
- 4 INTERNAL SEATING
- 5 FEATURE PLANTING
Bands of linear planting including a range of grasses, herbaceous perennials and bulb planting
- 6 SEDUM ROOF
Mixture of sedums, wildflowers, herbs and flowering perennials



3D view of roof garden

5.0 The Proposal
5.12 Landscaping Appraisal
Concept Development

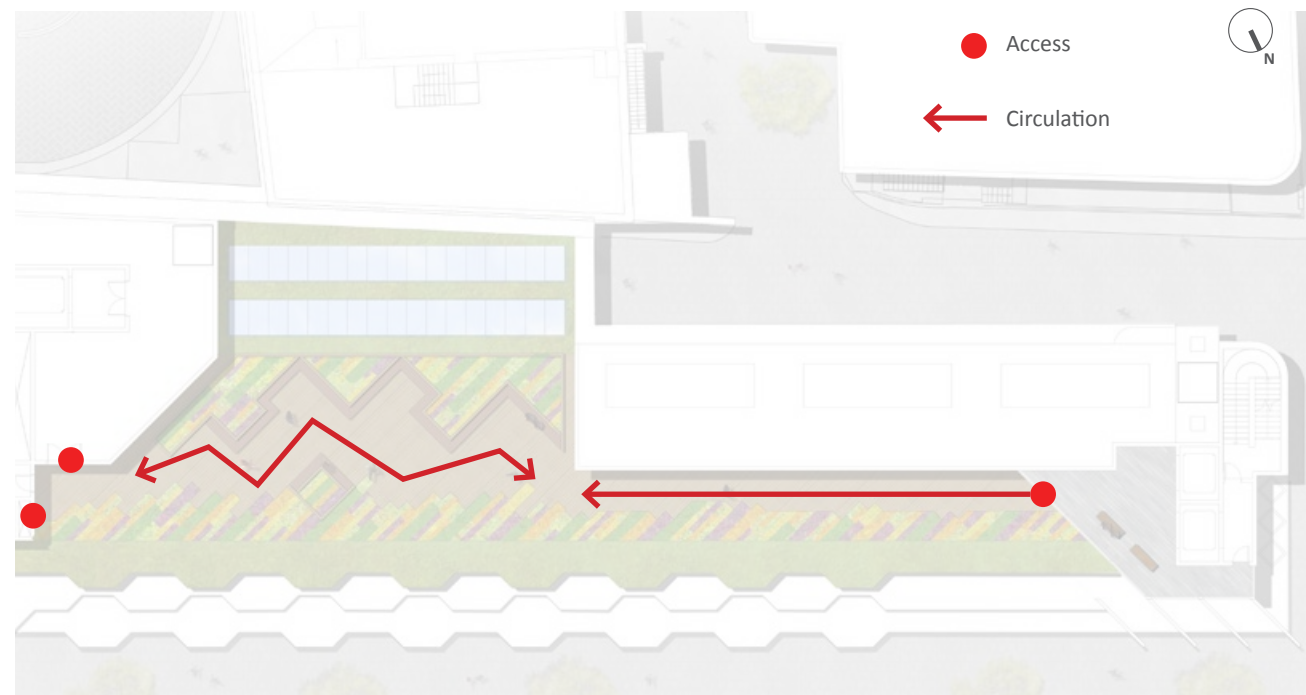


3D view of roof garden

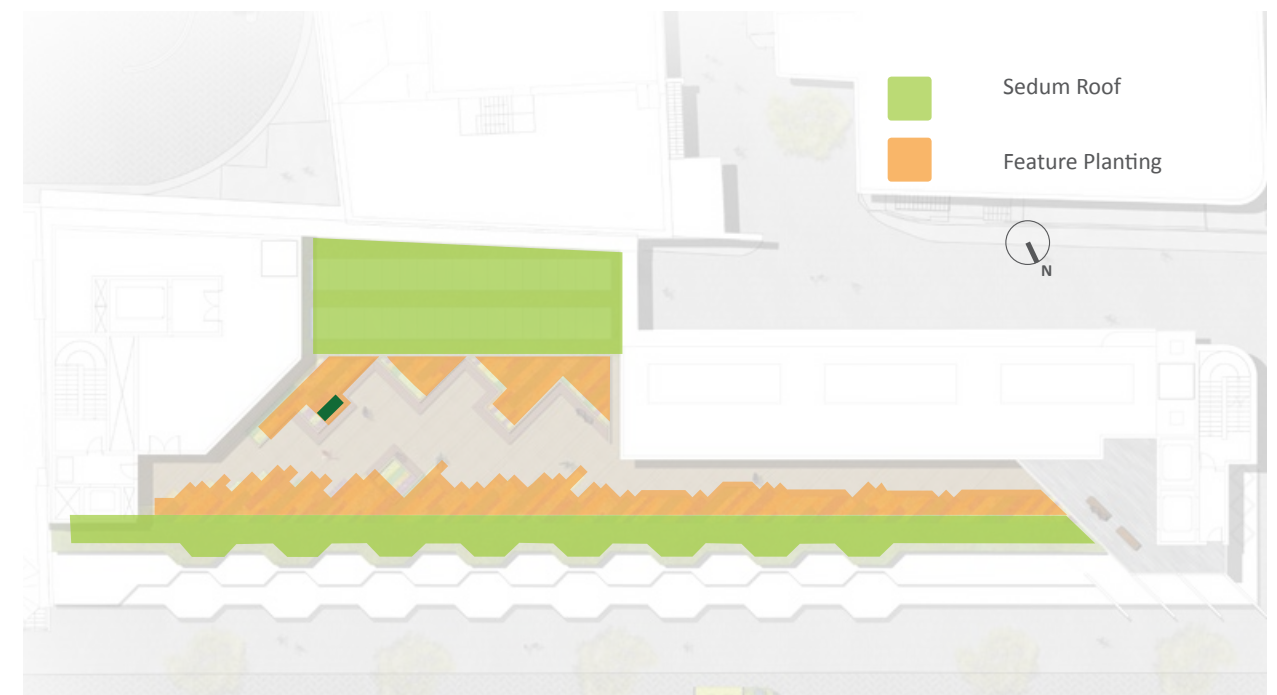
5.0 The Proposal

5.12 Landscaping Appraisal

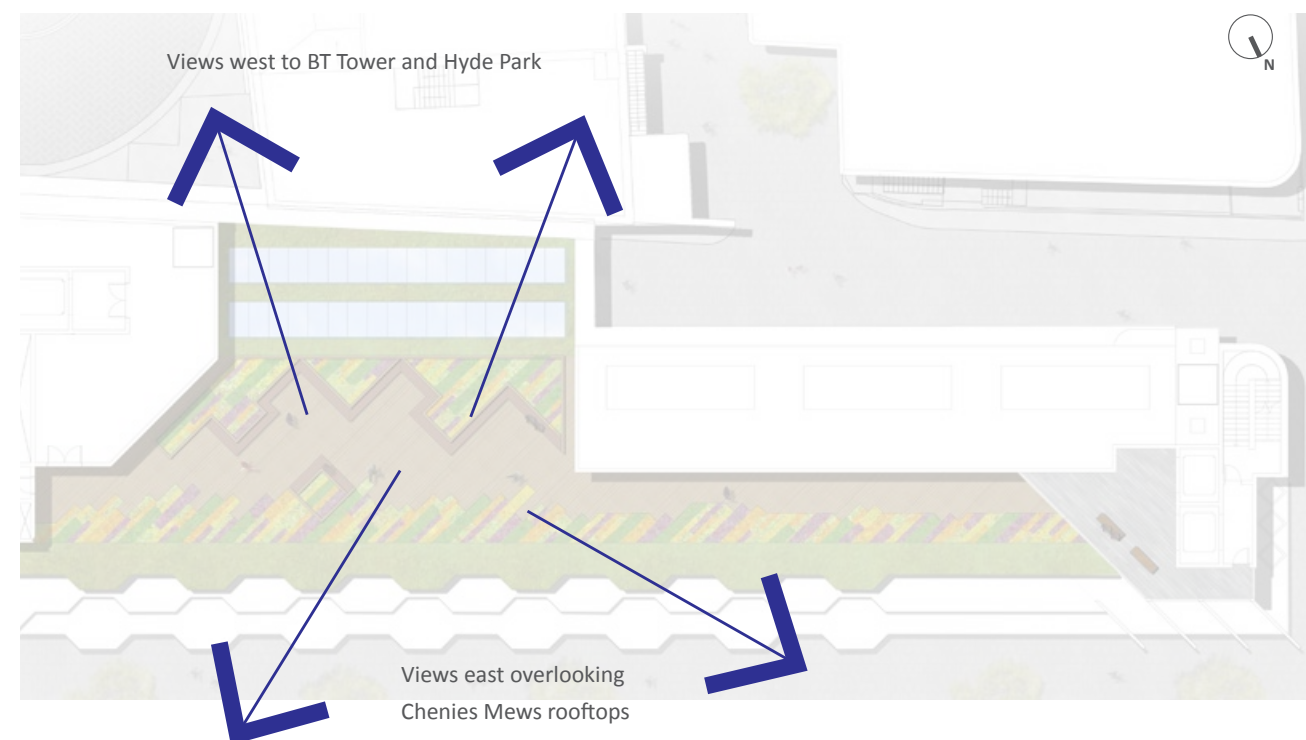
Key Design Drivers



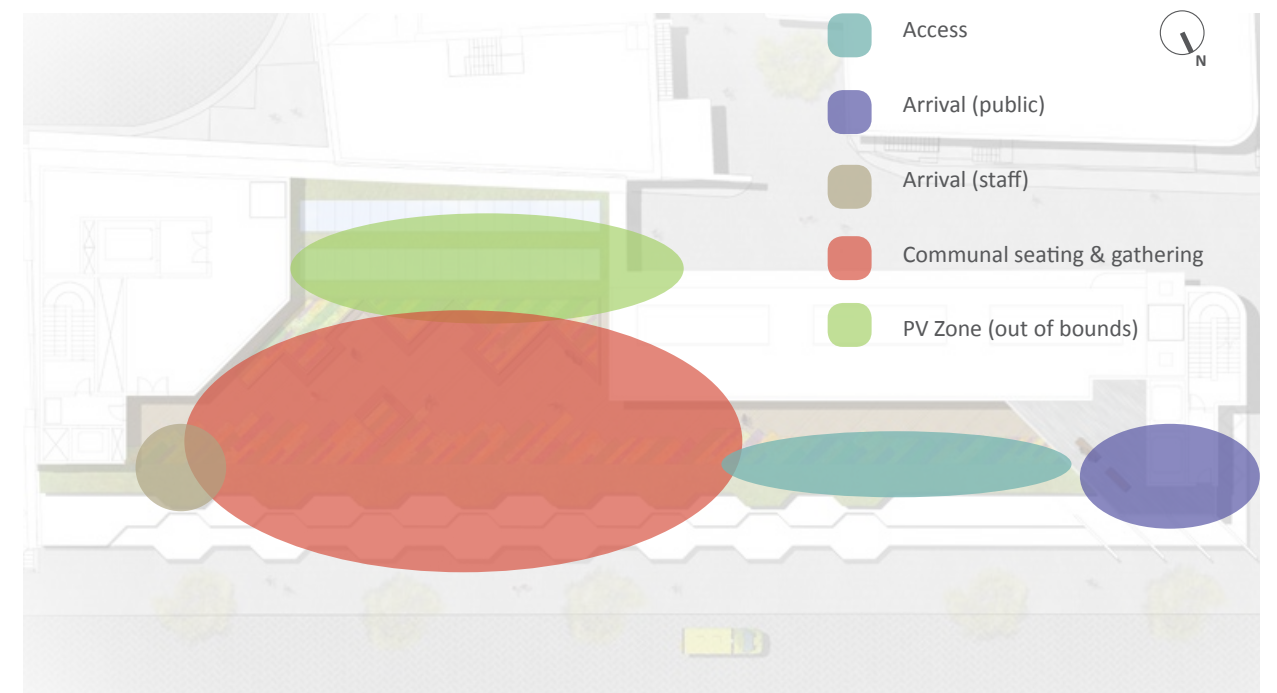
Access & circulation



Planting strategy



Views



Zoning

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5.12 Landscaping Appraisal

Material Strategy



Red brick aggregate substrate to green roof



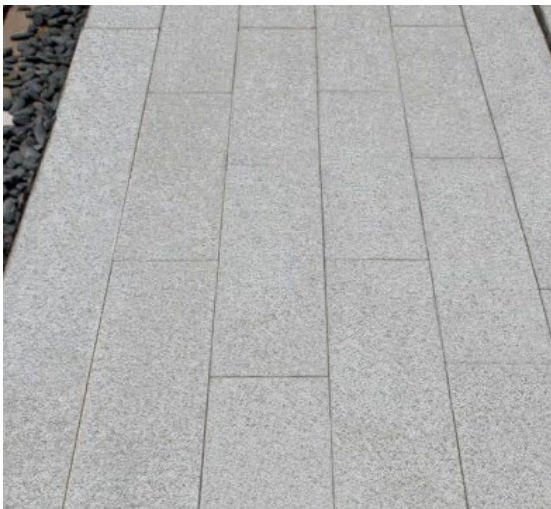
Glass balustrade



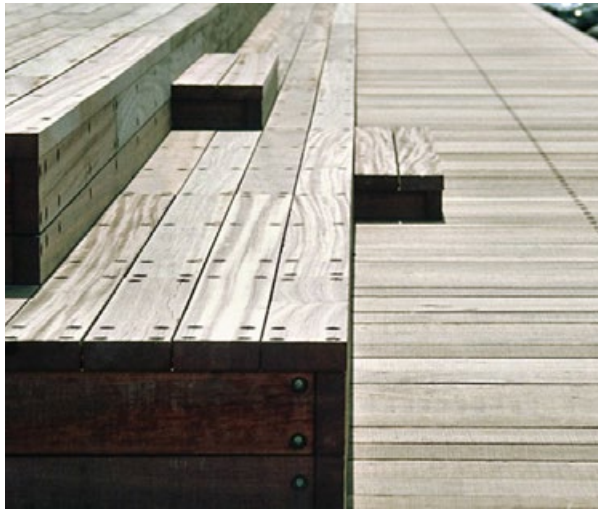
Hardwood decking to roof terrace



Staggered edge to timber deck and planting



Linear granite tiling to lift lobby



Bespoke timber deck seating



Bespoke timber raised planters/seating edge



Seating to lift lobby

Decking

- High quality hardwood timber decking to roof terrace surface.
- 25 x 150mm smooth finish. Secured with either hidden fixings or screwed and plugged.
- Staggered edge between timber deck and planting edge.

Linear granite tiling

- Natural granite tiling to Lift Lobby.
- 610 x 305mm, suitable for heavy foot traffic, laid in running staggered pattern.

Red brick aggregate

- Crushed red brick aggregate within substrate to green/Sedum roof.
- Subtle reference to the vernacular of the building.
- Lightweight growing medium designed to contain various properties essential for a green roof habitat.

Timber raised planters

- Bespoke seating and raised planters constructed from hardwood to match decking.
- Planters to include adequate drainage and waterproofed internal lining.
- Integrated hardwood bins for recycling located within bed construction.

Benches

- High quality cast stone and wood benches to lift lobby.
- ‘Equal’ by Escofet or similar approved.

Glass balustrade

- Minimum 1.1m high glass balustrade to northern edge of terrace
- Constructed from toughened glass panels with stainless steel support framework. Balustrade system to conform to Building Regulations and satisfy loading requirements for commercial use.
- Man safe systems to be integrated within design for on-going maintenance use.

5.0
5.12

The Proposal
Landscaping Appraisal
Planting Strategy



Feature tree planting

- Species to be multi-stem Betula albosinensis var. septentrionalis (Chinese Red Birch).
- Relatively small tree providing dappled shade so as not to cast too much shadow and keeping loading weight on roof terrace to a minimum.
- Light canopies enabling dense understorey of planting to develop underneath.
- Attractive autumn colour.
- Striking white/pink/brown peeling bark provides year round interest.

Grasses , Herbaceous Perennials & Bulbs

- Bands of grasses, herbaceous perennials and bulb planting provide texture and colour throughout the year.
- Emphasis on low maintenance, drought tolerant species.
- Emphasis put on fragrant, sensory plants.
- Species to include but not limited to:
 - Achillea 'Terracotta'
 - Allium hollandicum 'Purple Sensation'
 - Allium schoenoprasum
 - Briza media
 - Hakonechloa macra
 - Pennisetum setaceum
 - Salvia nemorosa 'Caradonna'
 - Sedum 'Autumn Joy'
 - Thymus vulgaris 'Silver Posie'
 - Stipa gigantea
 - Sesleria autumnalis
 - Verbena bonariensis



Sedum and wildflower mat by Lindum



Anthemis tinctoria



Allium hollandicum



Dianthus



Hypochaeris radicata



Leucanthemum vulgare



Origanum vulgare



Prunella vulgaris



Sedum acre



Sedum album

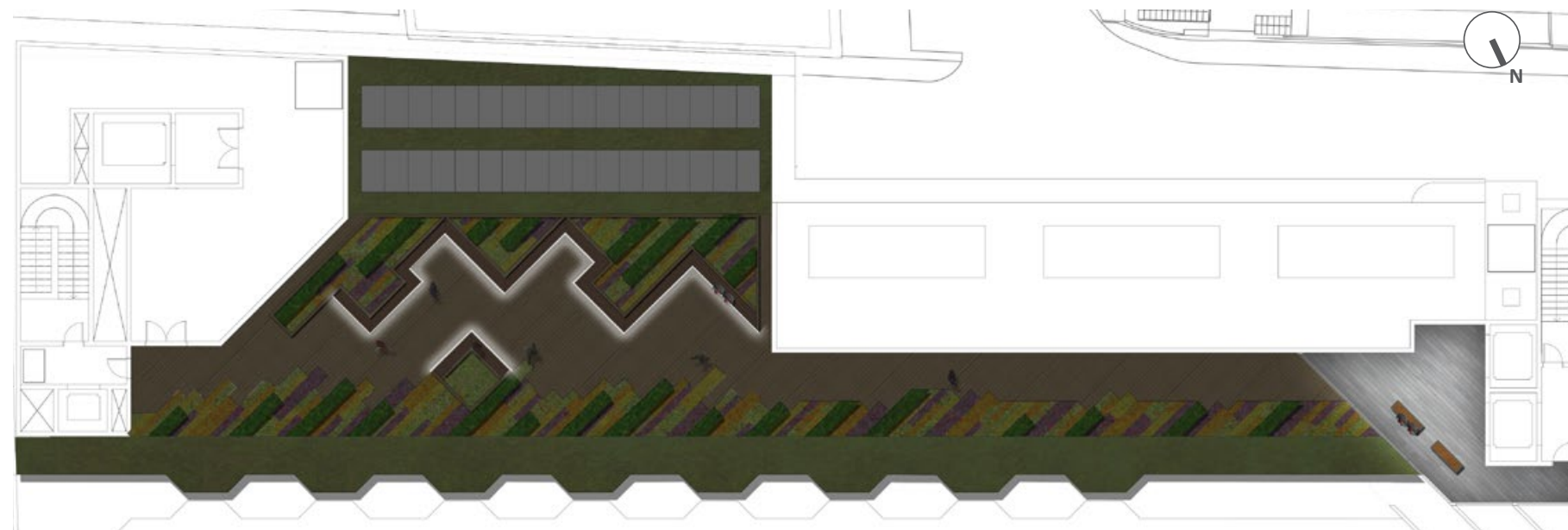


Sedum spurium

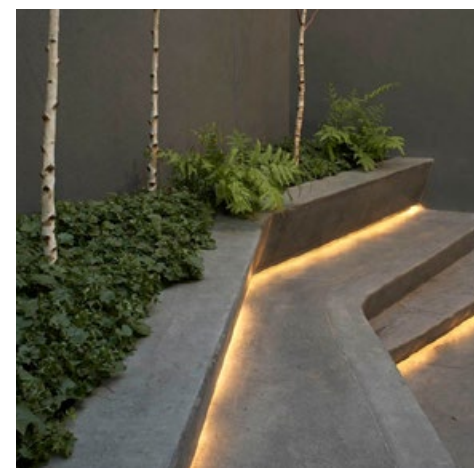
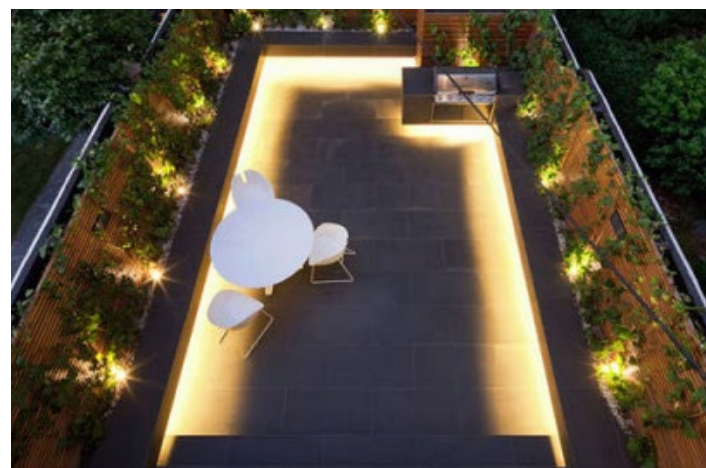
Sedum roof

- Sedum and wildflower mat by Lindum
- A mixture of sedums, wildflowers, herbs and flowering perennials specifically designed for green roofs and sustainably grown in the UK.
- Attractive to pollinators, it provides a biodiverse, colourful and drought tolerant range of species.
- Prolonged flowering period from April - September.
- Flowering height between 20 and 30cm.
- As an alternative to a pure Sedum roof combining drought tolerant aspects of a sedum roof with the colour and ecological benefits of wildflowers and other species, attracting a wider range of birds, bees, butterflies and invertebrates.
- Low maintenance requiring only one light cut in late autumn.
- Species to include but not limited to:
 - Anthemis tinctoria
 - Gallium verum
 - Dianthus
 - Hypochaeris radicata
 - Leucanthemum vulgare
 - Origanum vulgare
 - Prunella vulgaris
 - Sedum acre
 - Sedum album
 - Sedum spurium

5.0 The Proposal
5.12 Landscaping Appraisal
Lighting Strategy



Low voltage, recessed strip lighting to the underside of seats will subtly illuminate the main gathering areas, without over-illuminating the terrace and creating light pollution. This will allow the roof terrace to function in the evening and provide a safe and attractive environment. (Indicative only and subject to Lighting Engineers proposals.)



Lighting aspirations

5.0 The Proposal

5.12 Landscaping Appraisal

Maintainance and Futher consideration



Irrigation control unit



External tap

Winter

- Prune hedges to maintain desired size, shape and form. Remove any dead, diseased or damaged branches.
- Clear away and cut back any old growth to grasses and herbaceous planting when weather permits.
- General inspection of roof terrace to remove litter; check for any damage and general housekeeping.

Spring

- Clean decking.
- Early spring – cut back deciduous grasses to neat clumps.
- Feed and mulch all planting areas with organic products.
- Remove and restock any planting if required.
- Weed all beds and removed any unwanted growth.
- Ensure irrigation systems are providing enough water and adjust if required.
- Remove any litter and debris from terrace area.

Summer

- Ensure irrigation systems are providing enough water and adjust if required.
- Dead head regularly to promote longer flowering season.
- Check planting for any signs of pests or diseases.
- Remove any litter and debris from terrace area.

Autumn

- Clear leaves from terrace areas and planting beds.
- General inspection of roof terrace to remove litter; check for any damage and general housekeeping.
- Inspection of planting to plan for next season and any additional species required.
- Lightly cut Sedum/wildflower roof in late autumn removing all cuttings.

Further considerations

It is recommended that the following points should be explored when developing the terrace design in further detail:

- It is advised that provision is made in the form of external taps suitable for maintaining the planting areas. These taps should be located in appropriate locations to ensure limited visual intrusiveness but allow possible connection of automatic irrigation.
- A low pressure watering system with suitable automated control gear together with climate sensor should be explored in order to reduce the amount of maintenance required to the terrace. Perforated pipes should be laid below a suitable mulch layer to ensure water is provided to the root systems of plants. The use of a rain sensor helps to conserve water as it immediately cancels any watering setting once rain is detected. A detailed programme of watering can be configured to respond to various watering times throughout the day.
- Consideration of light weight growing medium can help to reduce imposed loading of saturated soils. Further exploration of loading implications can be progressed to ensure proposals to not compromise the structural integrity of the floor below.
- Suitable maintenance budget should be provided to ensure the planting is maintained throughout the year. Refer to specific maintenance section for further recommendations on anticipated planting maintenance.

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