## Stephenson House

Landscape Design Design and Access Statement

Issue: Planning

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The redevelopment of Stephenson House, provides an exciting opportunity to enhance the contribution the building makes to the public realm, streetscape and local biodiversity. A fresh approach to the building and site has been taken to help create an enriched identity, introducing biophilic design principles to help redefine the very essence of cities as places of wild and restorative nature, from rooftops to roadways. The approach aims to reconnect building users and residents to the abundant nature by bringing plants and natural diversity in close proximity to large numbers of users to help them value, protect and actively restore the biodiversity of the city.



An extract from Marks Barfield's report showing the context of the site - located in dense central London but close to Regents Park and a network of small green spaces

Currently, the streetscape adjacent to Stephenson House, particularly to the Hampstead Road frontage, is low in quality with standard paving, uncoordinated street furniture including signs, multiple utilities boxes, cycle hoops and a phone box. The street trees are an important element but are varied in species and size, some have failed while others are under strain.

This is a marked contrast to Regents Place, the recent neighbouring development at corner of Euston Road. Regents Place, supports office, commercial and residential units within an area of high quality public realm.

The photo survey opposite highlights the key issues with the existing streetscene.



1. View looking south along Hampstead Road











2. New trees at the corner of Hampstead Road and Euston Road. Vulnerable to wind.







3. Hampstead Road west side. A cluster of existing London Plane trees in self binding gravel spaced randomly and a range of signs and street furniture. Provides little coherence to the street.



The precedents opposite show recent schemes in other central London locations and are comparable in terms of scale. They illustrate a good level of quality with regards to the detailing of the public realm.



The Angel Building, St John Street

Large street trees and a designated spill out area for the cafe defined by raised planters. Formal box hedge articulates the area within which the street trees are located. Pavement width varies from 10-15m



Bankside 1 2 3, Southwark Street, High quality paving and careful hardscape detailing define areas for trees and cycles. Street trees are evenly spaced and uniform species. Cafés spill onto the street. Coordinated zone for cycle parking, utilities, signs, street trees creates a well planned coherent space. A raised table also features which adds quality and coherence. Pavement width c.8.5m

### **Key Objectives** 1.4

Situated at the corner of Hampstead Road and Drummond Street, Stephenson House has a role to play in contributing to both streets at ground level, particularly since the main entrance is situated at the corner of the two streets. It will be significant in providing a new elevation both to the local and wider streetscape.

In addition, a new layer will be added to the roofscape with the combination of terraces, pocket gardens and green screens, which will further enhance the building when viewed from the surrounding streets, offices and homes. The overarching principle is to improve the response to the streetscape in terms of the quality of the ground plane and planting/biodiversity to public realm, elevations and roofscape.

The key objectives and opportunities with regards to the public realm are to:

- Raise the quality of the materials of the ground plane to provide a welcoming and attractive street scene that response to the particular local aspect, orientation as well as the wider public realm context.
- Use materials that are inherently light and warm in visual appearance to help mitigate overshadowing effects of the surrounding buildings as well as contributing to reducing the effects of heat gain from paving material choice.
- Provide an accent to the street corner and provide legacy street tree planting to enliven the street with porous tree surround materials helping to reduce run off, existing tree health and new tree establishment.
- Rationalise the hazard warning paving and potentially ٠ provide raised crossing points to Drummond Street and William Road.

The site boundary extends approximately 4m into the public highway to Hampstead Road. The public highway beyond this, is under the ownership of TfL.

Any improvements to the adjacent streetscape would therefore need to be agreed with TfL. Improvements also need to be considered in the wider context of Hampstead Road so that a palette of materials and street trees can be proposed that are appropriate and offer a fully coordinated, cohesive response.



The diagram above illustrates the suggested improvements to the streetscene. Tree planting would also need to be carefully coordinated with a detailed utilities survey.



Street re paved with natural stone e.g. Yorkstone (subject to agreement)

Existing street trees - Dawn Redwood Metasequoia glytostroboides



Proposed trees - Maidenhair Tree Gingko Biloba

## the**landscape**partnership

zone

### **Key Objectives** 1.4

In considering the opportunities that the roof terraces present, reference has been made to Camden's Planning Guidance CPG 3, Sustainability and DP22 Promoting Sustainable Design and Construction and Camden's Biodiversity Action Plan, which promote green roofs and walls. The latter contains a range of options to consider to increase biodiversity value.

The Key objectives with regards to the roofscape are to:

- Maximize the potential for biophilic design by creating opportunities for planting where possible and to increase green and open space in a dense urban environment.
- Increase biodiversity, include planting for pollination, slow down rainwater run-off and help reduce the heat island effects.
- Use different planting styles and palettes to help create varied and distinct characters to the different levels of the building.
- Design spaces that have a range of scales to ٠ accommodate different activities.

The planting to the roof terraces would establish a character and identity of planting types and performance that responds to the different levels and soil depths. The proposal is that each roof terrace would be characterised by a different planting style. Ascending the levels, the planting would progress from a more cultivated garden style to a more naturalistic, informal style. In addition, the planting would also reference a range of different landscape characters from across the UK.





Roof Terrace 3: Meadow

> Roof Terrace 1: Cottage Garden



The character of planting changes on each level and progresses from a more cultivated gardenesque style to a more natural, organic style representing a range of different landscape characters across the

### 1.5 Concept - Roof Terraces



Lithospermum diffusum Purple gromwell

Drummond Street

7



Molinia caerulea Moor grass



Pinus mugo Dwarf pine



Festuca gautieri Bearskin fescue



Wood cranes bill



1st Floor Cottage Garden



Dryopteris affinis Golden scale fern



Symphytum Hidcote Blue Comfrey

Luzula nivea

Snowy woodrush

Euonymous japonicus 'Jean Hughes' Spindle planted as a hedge



Heuchera americana sp. Coral bells



Melica ciliata Silky spike melic



Digitalis purpurea Common foxglove



Hampstead Road









Allium schoenoprasum Chive



Anemone 'Honorine Jobert' Japanese anemone

## 1.6 The Proposals - Roof Terraces

## Terrace 1: Cottage Garden Style:

Herbaceous planting Clipped hedge Green screens to protect privacy Synthetic turf Flag paving

## Terrace 3: Meadow Style:

Herbaceous planting and grasses Composite timber deck and seating edges

### Terrace 4: Woodland Style:

Shrubs, herbaceous planting and grasses Multi stem trees Composite timber deck and seating edges

Terrace 6: Heathland Style:

Shrubs, sedum, herbaceous planting and grasses Composite timber deck and seating edges



## Pocket gardens: to levels 2,3 and 4

Small trees in raised planters planting to accord with adjacent terrace

### Terrace 7: Highland Style:

Sedum and plug planting Gravel



## 1.7 The Proposals -Structure and Spatial Order

The terraces contain a series of different scale spaces to accommodate larger social gatherings, break out spaces and smaller niches for sitting

The geometry of the atrium roof informs the layout and patterns of materials and planting of the terraces. The redevelopment of the existing building provides a unique opportunity to create important new amenity space, terraces, and balcony "pocket gardens". Within this matrix, a variety of different scale spaces will accommodate larger social gatherings, break out spaces and smaller niches for sitting.

The roof terraces will provide an outdoor garden space for staff and users, with paving or timber decking leading to more extensive green roofs. In designing appealing outdoor amenity space on the various terraces, it is important to consider and address the issues of overlooking for the adjoining residents. Planting forms the perimeter of each of the terraces to prevent people from accessing the edge. In addition, pre grown screens are proposed to the first floor, where issues of overlooking are most prevalent.

The green and brown roofs will be planted on substrate in bands of varying thickness - with simple sedum communities on the shallow bands and dry meadows, heathland communities on thicker layers, low-growing drought-tolerant perennials and shrubs on the thickest bands.

The Pocket gardens would contain small trees in raised planters, which would be visible from Hampstead Road. The planting style would correspond with the style of the adjacent terrace.







1	Site boundary
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### SOFTWORKS



Gravel strip Rounded ballast

Natural stone paving e.g. Yorkstone

### FURNITURE

	FSC European timber seat with metal legs e.g. 'Clifton' Bench by Woodscape
	FSC Eurpoean timber cube seat
808	FSC European timber table and bench seating e.g. FalcoFare by Falco
_	FSC European timber seating element integrated with raised metal planter
	Raised planter formed of composite deck boards with integrated seating elements e.g. 'Ehanced Grain Coppered Oak' by Millboard or similar agreed

Revision	Number	Ву	Date		
	the <b>landsc</b>		artners	nip	
Project	Bedford	0123	4 261315		
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STEPHENSON HOUSE	Norwich	0203	092 4141 3 230777		
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Do not scale off drawing. All dimensions & Levels are to be checked on site. Any discrepancies must be reported to the landscape architect immediately. Copyright THE LANDSCAPE PARTNERSHIP LTD	North	$\left( \begin{array}{c} \end{array} \right)$	)		

### The Proposals 1.9 - Terrace 1

Terrace 1 has a formal layout comprised of paving flags adjacent to the building, areas of synthetic turf for ease of maintenance and longevity and bands of 'cottage garden style' planting.

The edge of the lowest terrace has evergreen planting to the periphery to maintain privacy to the neighbours. The planting is a dense c. 1.5m hedge or a c.1.8m pre grown screen which limits views. The planting also prevents those using the terrace from getting close to the edge.





SCALE: 1:20

Pre grown, free standing privet screen c. 1800mm

## 1.9 The Proposals - Terrace 1





### The Proposals 1.10 - Terrace 3

Terrace 3 comprises areas of timber decking against the building to provide circulation and seating areas. Meadow style planting has been arranged using a diagonal grid informed by the atrium roof.

Bands with a combination of gravel and flag paving allow for ease of access for maintenance.

The pocket garden at this level, to the balcony would contain two small trees such as a Star Magnolia within raised planters.

The raised planters would contain species included on the main terrace for continuation. Internally small trees such as fig, which grow reliably in internal spaces, would be incorporated. Once the micro-climatic conditions have been established the choice of tree can be reviewed to ensure that the most appropriate species is specified.

A pocket garden is also present on the second floor. The same principle would be adopted. Since there is no external terrace to the second floor, species present on the first floor would be incorporated in the raised planters to accompany the two trees.



between planting for maintenance.



### The Proposals 1.10 Roof Terraces - Terrace 4

Terrace 4 is the largest terrace and it is considered that trees could be accommodated here.

Areas of timber decking and bands of woodland style planting feature in a rectilinear formation. Within this configuration different size seating spaces are incorporated to provide larger, more sociable areas and smaller niches.

The pocket garden at this level, to the balcony would contain two small trees such as a Star Magnolia within raised planters to remain consistent with the pocket gardens at lower levels.

The raised planters would contain species included on the main terrace for continuation. Again, internally small trees such as fig, which grow reliably in internal spaces, would be incorporated. Once the microclimatic conditions have been established the choice of tree can be reviewed to ensure that the most appropriate species is specified.



Seats project into the planting and the back rests create a taller raised planter to the trees.

![](_page_15_Picture_7.jpeg)

n

![](_page_15_Picture_10.jpeg)

Substrate reduces to 300mm

### 1.11 The Proposals Roof Terraces - Terrace 6 and 7

Terrace 6 uses mounding to accommodate the depth of substrate required for the planting. Some larger shrubs would be incorporated here, which could be visible from Drummond Street below.

Terrace 7 is the smallest roof terrace and will not be accessible. It will comprise a simple sedum mix with plug plants for ease of maintenance.

![](_page_16_Figure_3.jpeg)

![](_page_16_Figure_4.jpeg)

### 1.12 Hardscape Materials Strategy **Roof Terraces**

The materials have been selected to complement the planting style on each terrace and to reinforce the proposed different character areas. The materials will also provide a robust, low maintenance and visually appealing.

Paving flags to Terrace 1 - smooth ground paving flags with natural aggregate e.g. Perfecta by Marshalls Synthetic turf to Terrace 1 e.g. Kensington by Easi grass Composite timber decking to Terraces 3, 4, 6, 7 e.g. Enhanced grain deck boards by Millboard. Metal planters to terraces 1 and 3 with integrated timber benches and seats e.g. Perimeter Planterline by Kinley Systems.

![](_page_17_Picture_3.jpeg)

Synthetic turf - Terrace 1

![](_page_17_Picture_5.jpeg)

Multi stem trees - and planting Terrace 4

![](_page_17_Picture_7.jpeg)

A matrix of planting and gravel - Terraces 4 and 7

![](_page_17_Picture_9.jpeg)

![](_page_17_Picture_11.jpeg)

Composite timber deck and seats Terraces 3 and 4

![](_page_17_Picture_13.jpeg)

![](_page_17_Picture_14.jpeg)

![](_page_17_Picture_16.jpeg)

Smooth ground paving flags - Terrace 1

![](_page_17_Picture_19.jpeg)

Sedum/ plug planting and a gravel margin - Terraces 7

### 1.13 Softworks/ Planting Strategy Roof Terraces

The green and brown roofs will be planted on substrate in bands of varying thickness - with simple sedum communities on the shallow bands and dry meadows, heathland communities on thicker layers, low-growing drought-tolerant perennials and shrubs on the thickest bands.

The planting palette will be developed with input from the ecologist to ensure that opportunities for biodiversity are maximised.

Plants have been chosen that are robust and drought tolerant and are considered suitable to the conditions of the site. The plants, at times provide an impression of the various character areas rather than being true natives of that particular landscape type. For example, it was recognised that establishing an actual meadow in this context would be challenging, instead grasses and perennials have been selected that would mimic a meadow.

A typical plant list is included opposite to provide an indication of the type of planting, character, species, size and density.

## PLANTING STRATEGY - TYPICAL SPECIES LIST

Ferrace Number	Class	Plant Name	Height	Root	Container	Density	Girth
	Typical Species						
1	Cottage Garden Style		1.192				
	Herbaceous	Anemone 'Honorine Jobert'	10-15cm	C	1.5-2L	0.4	1
	Herbaceous	Digitalis purpurea	1000			0.4	1
	Herbaceous	Alchemilla mollis		C	1.5L	0.3	3
	Pre grown hedge screen	Līgustrum Līga	Panel size 120(w) x 180(h)				
	Hedge	Euonymous japonicus 'Jean Hughes'	30-40cm		2L	4 per lm	_
	Meadow Style		- Û	-			
	Herbaceous	Luzula nivea		С	1.5-2L	0.45	5
	Herbaceous	Melica ciliata	20-30cm	С	2L	0.45	5
	Herbaceous	Allium schoenoprasum		C	1L	0.25	5
	Herbaceous	Carex morowii		C	1.5-2L	0.3	3
	Woodland Style	And the second second					<u>.</u>
	Herbaceous	Geranium sylvaticum		C	1.5-2L	0.35	5
	Herbaceous	Symphytum Hidcote Blue		C	1.5-2L	0.4	4
	Herbaceous	Heuchera americana	T. T.		1.5-2L	0.4	1
	Tree	Betula pendula multi stem	300-400cm	RB		N/A	
	Heath Style						
	Shrub	Betula nana	30-40cm	С	2L	0.45	5
	Herbaceous	Molinia caeulea		С	2L	0.5	5
	Herbaceous	Festuca gautieri		C	1.5-2L	0.3	3
	Shrub	Dryopteris affinis		С	1.5-2L	0.4	4
7	Highland Style						
	Herbaceous	Lithospermum diffusum 'Heavenly Blue		C	1.5-2L	0.3	3
	Herbaceous	Iberis saxatilis		C	1.5-2L	0.3	3
	Herbaceous	Eryngium planum	20-30cm	С	2L	0.5	5
	Small tree	Pinus mugo	50-90cm	C	45L	NA	
							_
and a	Pocket Gardens - leve	is 2,3 and 4	Taxabase	1.	1	lan.	1
xternal	Small tree	Magnolia Stellata	200-300cm	C		N/A	-
iternal	Small tree	Ficus Benjamina	200-300cm	C		2	

### Maintenance: 1.14 **Roof Terraces**

### General Maintenance

Selecting plants appropriate to the particular microclimates on the roof terraces and pocket gardens will reduce the need for complex or intensive maintenance and enable the planting to succeed in the local environment providing succession and longevity. General maintenance is normally carried out twice annually during springtime and autumn months. However, additional maintenance may be required which will be dependent upon the location of the roof, such as the removal of weeds, seedlings and accumulated leaf litter from nearby trees may also need to be done carried out.

Any vegetation which has encroached into drainage outlets, walkways and the vegetation barriers (pebbles) should be removed. Weeding an extensive green roof is necessary to maintain a healthy roof and all aggressive species of shrub sapling and undesirable plants should be removed. Some weeds however are helpful to the biodiversity of the roof and considered as a problem only of aesthetics. If considered excessive, they can be removed ensuring that care is taken to follow specific instructions as to the type and species of vegetation removed. All extensive green roof installations will at times include some moss and grass.

Areas of dead vegetation / bare patches can be easily repaired and this is best done during the main growing seasons of March/April or from late August until the end of September. This can be achieved by taking plug plants (new) or vegetation cuttings from surrounding areas of healthy mature plants and place on bare patches, pressing gently into the soil.

### Irrigation

It is generally not considered necessary to irrigate extensive substrate green roof systems as shown on the 7th Terrace - 'Highland Style'. However, a water supply point should be provided adjacent to the all green roofs, both to assist with general maintenance of the planting on areas of deeper substrate and to enable a manually operated drip-line irrigation system to be installed as a precaution against extreme drought conditions.