GREEN INFRASTRUCTURE STATEMENT

April 2025

Redevelopment of Salamander Quay

Park Ln, Harefield, Uxbridge UB9 6NZ

Introduction

JDW Architects have been appointed to prepare proposals by Mr Schneck for the renovation and change of use of the existing office complex, from offices to residential apartments, while still retaining some office space.

This Green Infrastructure statement accompanies a full planning application for this site and is to be read in conjunction will all other submission documentation, which accompanies the application.

The proposed development involves the conversion of the existing office building located at Salamander Quay Park Lane, Harefield, Uxbridge UB9 6NZ, into 34 high-quality residential apartments.
The intent of this project is to create a vibrant, sustainable, and well-integrated living environment, whilst respecting the architectural context of the surrounding area and enhancing the functionality of the existing building.

This Green Infrastructure Statement outlines the key considerations and strategies for integrating green infrastructure into the proposed development for the change of use from office complex to 34 residential apartments at Salamander Quay in Harefield.

Green infrastructure refers to an interconnected network of natural and semi-natural spaces that provide multiple benefits, including enhanced biodiversity, sustainable water management, and improved public amenity.

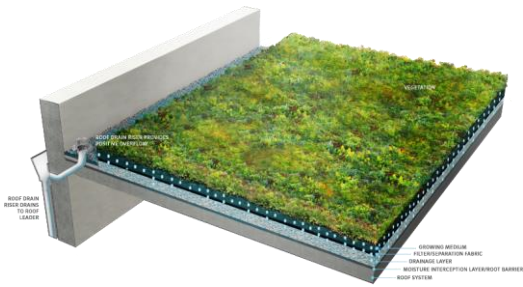
This statement aims to ensure that the development supports both environmental sustainability and community well-being.

Fig1 Location of the site

1. Biodiversity and Habitat Enhancement

The development aims to enhance local biodiversity by ncorporating a variety of habitat types, including:

- **Green Roofs**: Where feasible, green roofs will be installed on suitable roofs, such as the bins and bike stores. These will serve to reduce the urban heat island effect, improve insulation, and provide new habitats for wildlife such as birds, insects, and plants.
- **Landscaping and Green Spaces**: The external areas surrounding the apartments will include the planting of native trees, shrubs, and grass that are appropriate for the local environment. This will increase the local biodiversity and create green spaces for residents to enjoy.
- **Bird and Bat Boxes**: The installation of bird and bat boxes will be considered in suitable locations to encourage local wildlife and promote ecological health.



2. Sustainable Drainage Systems (SuDS)

To manage surface water runoff sustainably, the development will incorporate SuDS features that align with local policies and best practices, such as:

- **Rainwater Harvesting**: Where practical, rainwater harvesting systems will be integrated to collect and reuse rainwater for irrigation or non-potable uses within the apartments.
- **Permeable Paving**: Areas of the development with high foot traffic will use permeable paving to allow rainwater to be absorbed into the ground, reducing surface runoff and promoting natural water filtration.
- **Green Walls and Planters**: Strategically placed green walls and planters will help manage surface water runoff and enhance the aesthetic value of the development.

3. Energy Efficiency and Carbon Reduction

The development will seek to minimize its environmental impact through the following initiatives:

- **Energy-Efficient Design**: The residential apartments will be designed to high energy efficiency standards, incorporating modern insulation techniques, double glazing, and energy-efficient appliances to reduce overall energy consumption.
- **Renewable Energy**: The potential for renewable energy solutions, such as solar panels or air-source heat pumps, will be explored to supplement the energy needs of the apartments and reduce carbon emissions.
- **Building Materials**: Sustainable, locally sourced, and low-carbon building materials will be prioritised where possible, contributing to the reduction of the development's carbon footprint.

Living wall

4. Waste Management and Recycling

The development will incorporate a sustainable waste management system that encourages recycling and reduces waste to landfill:

- **Dedicated Recycling Areas**: Designated areas for waste separation, including facilities for paper, plastic, glass, and organic waste, will be provided in both the communal areas and individual apartments.
- **Composting**: Where feasible, composting facilities will be made available for residents to dispose of organic waste, supporting sustainability goals.

5. Access to Green and Open Spaces

- **Private and Communal Green Spaces**: The development will include private balconies and terraces for residents to enjoy green space, along with communal gardens or courtyards where possible. These spaces will provide opportunities for relaxation, social interaction, and outdoor activities, all of which contribute to the mental and physical well-being of residents.
- **Walkability and Connectivity**: The site will ensure that pedestrian access to nearby parks, walking paths, and other green spaces is convenient and safe. This will promote sustainable travel, reduce reliance on cars, and provide residents with opportunities for outdoor exercise and enjoyment.

6. Climate Resilience

To address the challenges of climate change, the development will prioritize strategies to improve resilience to extreme weather events:

- **Urban Cooling**: Green spaces, tree planting, and green roofs will help mitigate the urban heat island effect, reducing the impact of heatwaves on the development.
- **Flood Resilience**: The incorporation of SuDS will ensure that the site is resilient to heavy rainfall and potential flooding, while also reducing pressure on local drainage systems.

7. Community Engagement and Well-Being

The development will promote the physical and mental well-being of residents by providing green spaces for leisure and promoting social cohesion. Additionally:

- **Community Gardens**: Space will be allocated for potential community gardens, where residents can grow their own plants and food, fostering a sense of ownership and connection to the environment.
- **Active Travel**: Facilities for cycling, including secure bike storage, will be incorporated to encourage residents to use sustainable modes of transportation.

8. Monitoring and Maintenance

Ongoing monitoring and maintenance of the green infrastructure elements will be integral to ensuring their long-term sustainability. This includes:

- **Regular Maintenance**: Routine inspections and maintenance schedules for green roofs, landscaping, and SuDS features to ensure that they continue to perform effectively.
- **Community Involvement**: Encouraging residents to participate in the care of communal green spaces and gardens will foster a sense of responsibility and pride in the development.

Conclusion

This Green Infrastructure Statement highlights the importance of integrating environmental and sustainability measures into the redevelopment of Salamander Quay. The proposed changes will not only provide much-needed residential units but also create a sustainable, healthy, and vibrant living environment for future residents. The development will support local biodiversity, manage water sustainably, reduce carbon emissions, and promote the well-being of the community. Through careful planning and design, Salamander Quay will contribute to the creation of a greener, more resilient urban space.