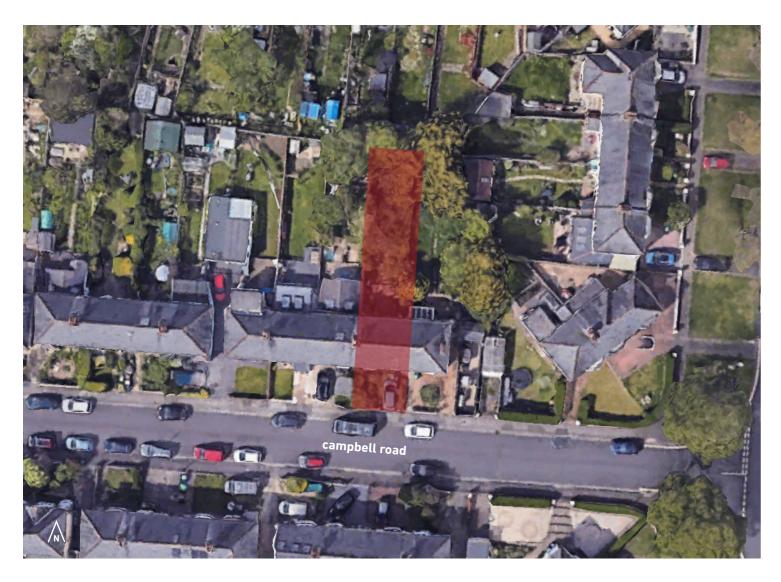


# DESIGN AND ACCESS STATEMENT

80 Campbell Road OX4 3NU | November 2023

Transition by Design architecture@transitionbydesign.org





#### Above

Aerial Image with the site highlighted in red. Image curtosy of Google Maps.

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#### INTRODUCTION

Transition by Design (T/D) has been appointed by Tina Friedrich and Frederik Ferner, hereinafter the Applicant, to submit a planning application for a rear extension and energy retrofit to their existing dwelling. We have prepared this Design & Access Statement on their behalf to explain the design decisions in relation to the local context.

#### United Kingdom

**Above** Project site location maps.

#### SITE SETTING AND LOCAL CONTEXT

80 Campbell Road is situated in the Florence Park are of Oxford, a residential area on the south eastern edges of the city of Oxford. The site is located a few streets south of Florence park, towards Henley Avenue. Number 80 is a mid terrace property which is typical of the properties in the area.

Although there are about 1500 listed buildings in 04/01638/FUL | Single storey rear extension | Oxford, the dwelling is not in close proximity to any listed buildings and is not located in any of Oxford's conservation areas.

 $\mathbb{A}$ 

The site comprises of the main dwelling with a large rear garden, and smaller front garden. There is a side access which is shared with the neighbour to the east of the dwelling. The site is accessed from Campbell Road and has a concrete driveway with parking for one car. To the frontage of the property is a drop curb in front of the concrete driveway, and a low brick wall in front of a grass and shrub front garden. The building is within Floor Risk Zone 1. This means that the land and property in this zone have a low probability of flooding.

There is one recorded planning application relevant to this property, the information for this is below:



Oxford, Oxfordshire

#### **EXISTING BUILDING**

80 Campbell Road is a two storey, two bedroom In 2004 - 2005 the ground floor bathroom was approximately 1935.

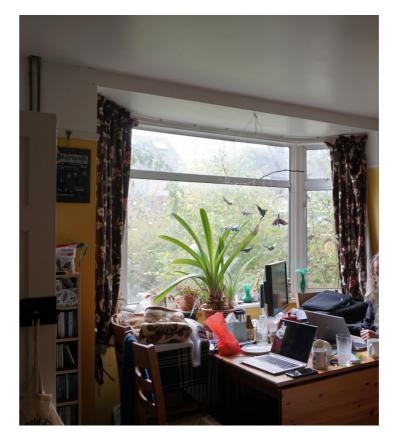
cavity wall for the front and rear facade. The front facade is externally rendered at the first floor of the bay window, and the top half of the facade. The rear wall is fully rendered.

The roof is double pitched with slate roof tiles and clay ridge tiles. There is a shared brick chimney stack shared with the property to the west of the building. The windows are double glazed with aluminium or uPVC frames.

building which is part of a terraced row built in converted into a utility room. The original fourth bedroom, which partly over-sails the ground floor shared passage, was converted to a bathroom. Typical of it's age and location, the building is a brick Works on a single storey rear extension were commenced and stopped at DPC level. This slab is covered by a timber patio.



Above Front elevation image. Photo taken October 2022. Above Rear elevation image. Photo taken October 2022.

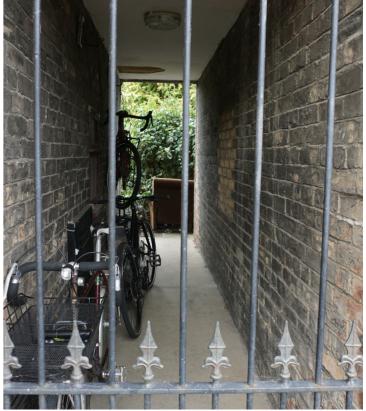


Above Front elevation image. Photo taken October 2022.

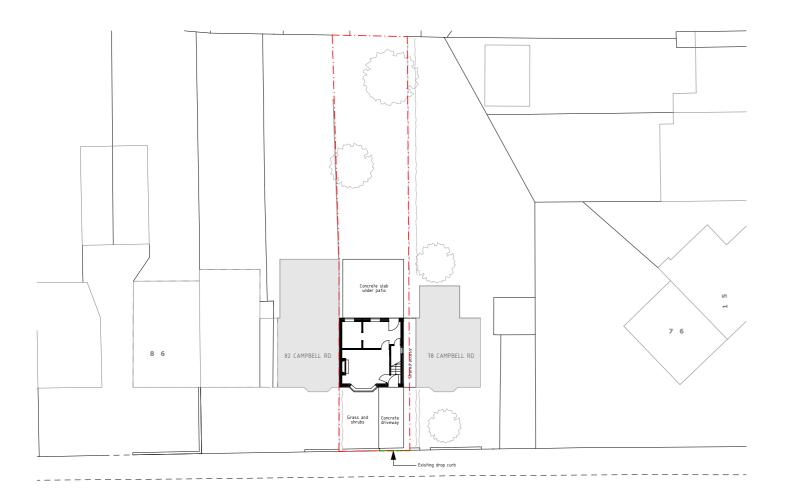


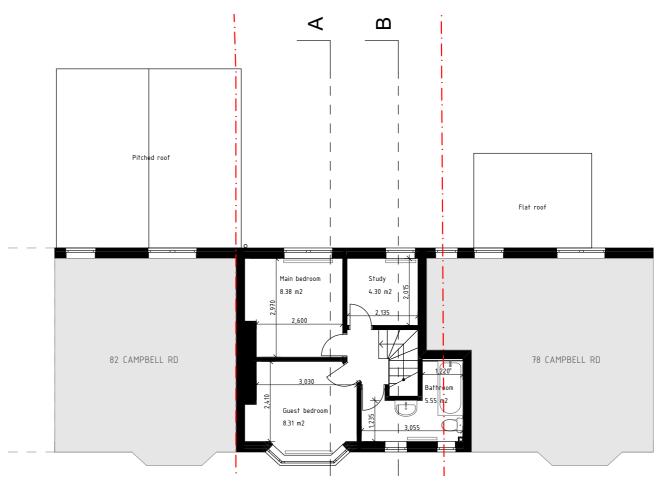
3





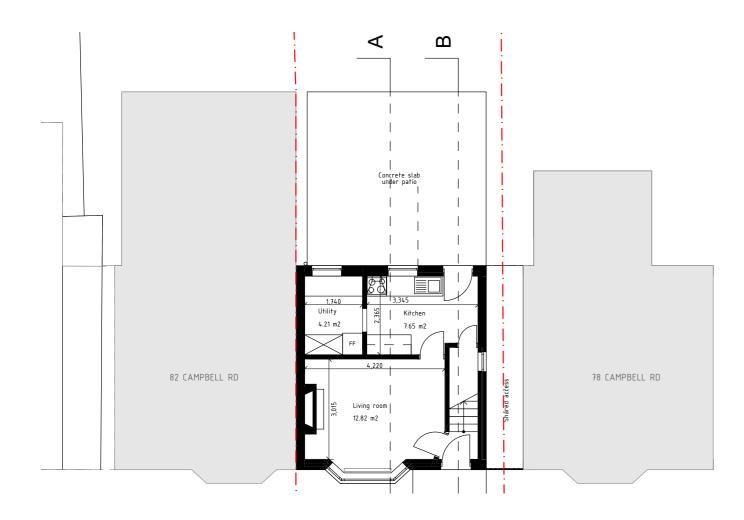
Above View down shared side passageway. Photo taken October 2022.



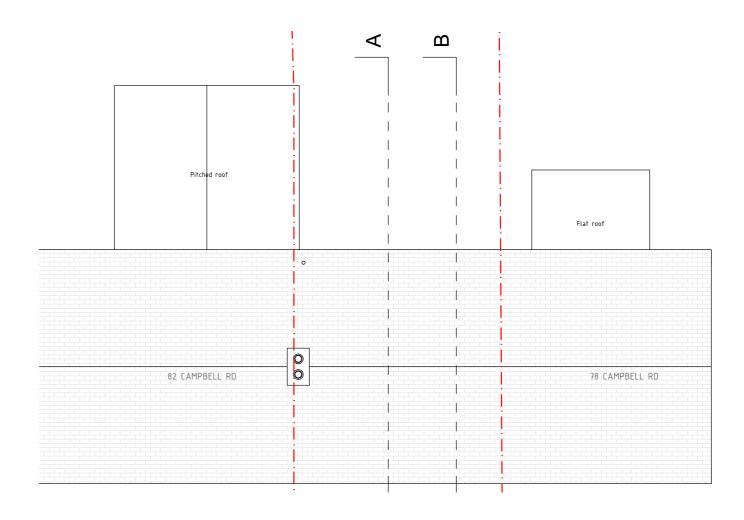


**Above** Existing Site Plan

**Below** Existing Ground Floor Plan

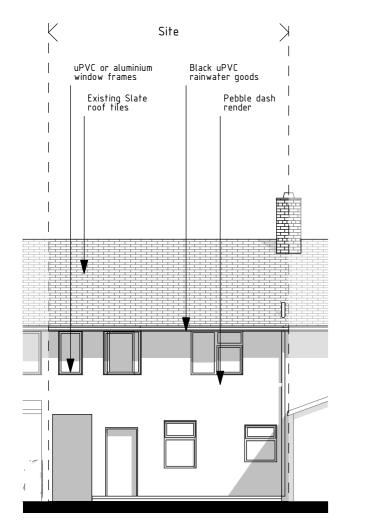


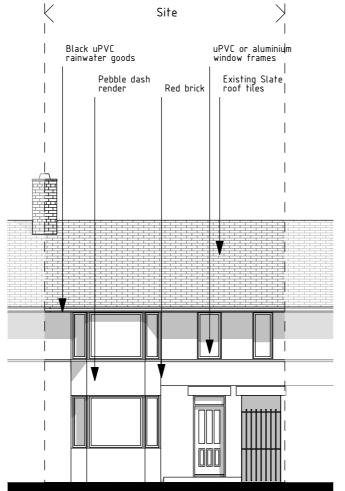
**Above** Existing First Floor Plan



<u>5</u>

**Below** Existing Roof Plan

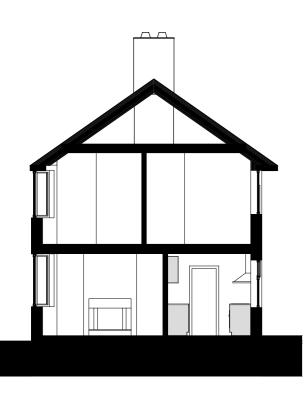




Below

Existing Sections A and B

Above **Existing Rear and Front Elevations** 





### **DESIGN DEVELOPMENT**

The Applicant would like to create a better connection achieved through some internal reconfiguration, between their living spaces and the north facing rear along side the rear extension. Visual connections garden, as well as increase the size of their living are improved through larger glazed patio doors room to allow more flexible use in light of changes and connect the key living areas to the garden. in working and living since the increase if working from home in recent years. They would also like to The Applicant further requires improvement increase the size of their bedroom, for it to be fit for measures to the thermal efficiency of their home their daily needs as a whole, so some energy retrofitting measures

The concept developed from a focus on extending the north elevation outwards slightly into the garden and in-line with neighbouring property 82 Campbell Road. The brief was also to utilise the concrete slab from the footprint of the approved planning application from 2004.

Another element of their brief is to create a more open Kitchen/Dining space, and allow for more practical spaces such as a boot room for show storage an to facilitate an are where they can enter after a walk with the family dog. This brief can be

### PROPOSAL

### **Design Strategy**

The proposal creates a one and a half storey rear extension with a mono-pitch roof, improving the overall layout and creating a better connection with the north facing garden. The proposed design has developed from the following key concepts:

- // Contextual response, aligned with similar local extensions of form and size. The extension extends as far as the rear elevation of the neighbouring 82 Campbell Road.
- // Incorporation of materials from the local context on Campbell Road and surrounding roads.
- // Minimising the impact on the neighbouring // The new bi-fold doors will allow the Applicants properties with a mono-pitch roof angling away to really appreciate and connect to their rear from neighbouring properties to maintain levels garden from their internal living spaces,. Biof privacy. fold doors at the ground floor also allows for a // Using low-energy technologies and ecological better visual connection with the garden, and materials allow more natural light into the room offering // Applying modern, low carbon building improved quality of the internal spaces.
- techniques

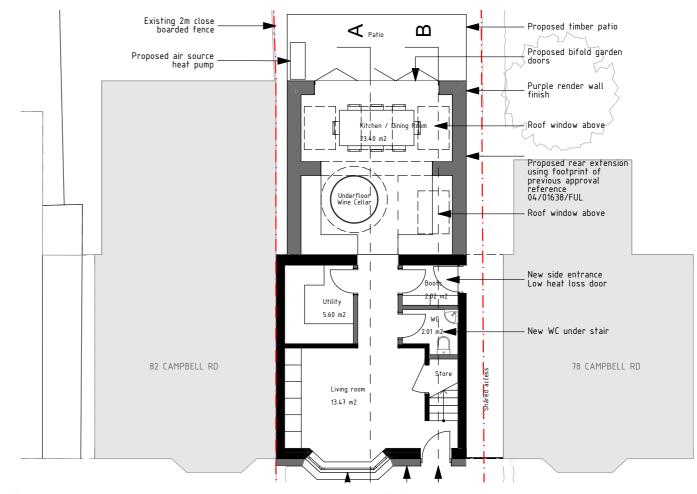
architecture@transitionbydesign.org ref: A089

will be included in the design, including an Air Source Heat Pump (ASHP) to replace the old gas boiler, External Wall Insulation, upgraded triple glazed windows, and solar photovoltaic panel to the roof of the building.

The design is in-keeping with the existing house and is of similar massing to other extensions in the local area. The materiality responds to those present on Campbell Road and surrounding roads, including render which to be used on the all elevations of the existing and proposed building.

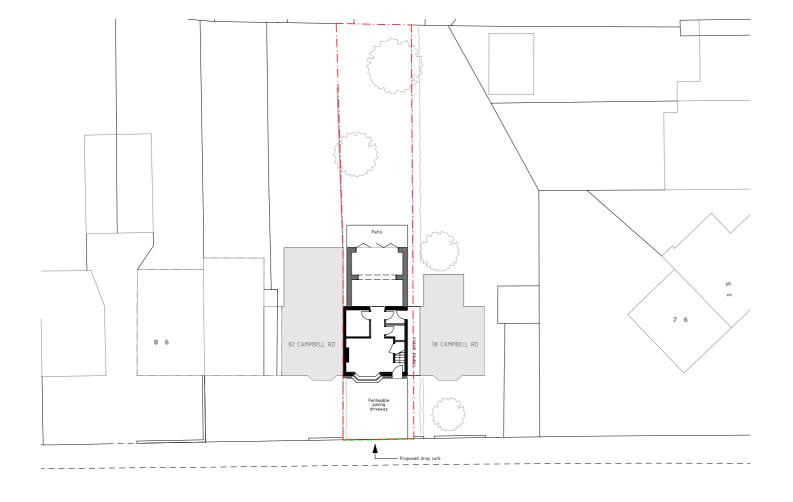
- // A low energy retrofit, which works in tandem with the PAS 2035 framework, and EnerPHit standards.
- // Adjustments to the front garden to include permeable paving, retaining the connection for charging the participants electric car and space for parking another vehicle with access to the EV charging point.
- // The extension is proposed to extend by 6m into the rear garden, in-line with 82 Campbell Road, and utilising the footprint of the existing extension foundations under the rear patio.
- // Cladding the rear extension in lime render allows for the new build area to be read as coherent with the existing building.

- // A mono-pitch roof over the new extension is proposed, offering a simple form connecting to the existing house.
- // The roof is proposed to be natural slate tiles to match the existing roof, and those in the neighbouring area.
- // The external wall insulation is proposed to wrap the existing building, increasing the thermal performance of the building and reducing the Applicant's energy demand.
- // An Air Source Heat Pump is proposed to the rear of the property minimising the visual impact of the pump for neighbouring properties.
- // The extension has proposed roof light to allow light into a for with roof space to facilitate this, solar PV panels are proposed on the existing roof, along with a proposed roof light which will allow light into the dressing room area of the main bedroom.

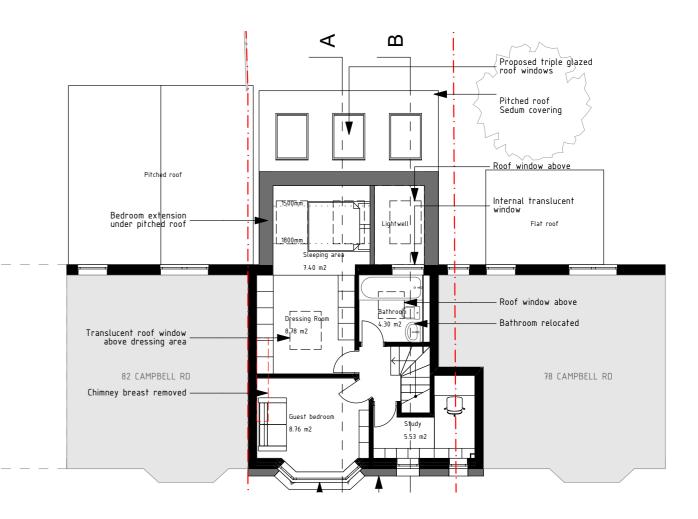


Above

Proposed Ground Floor Plan

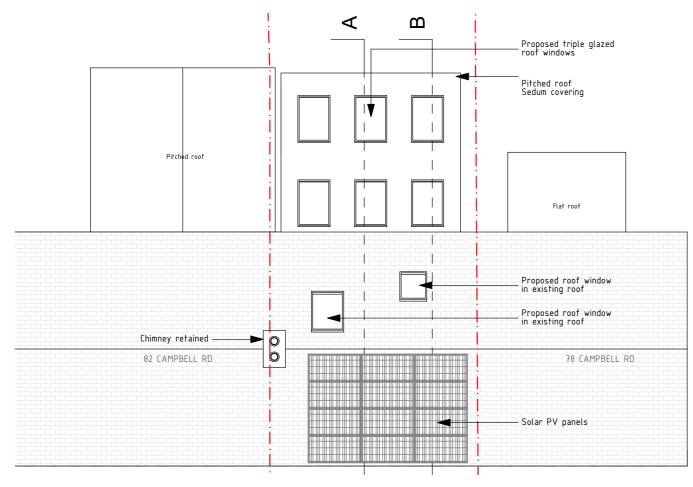


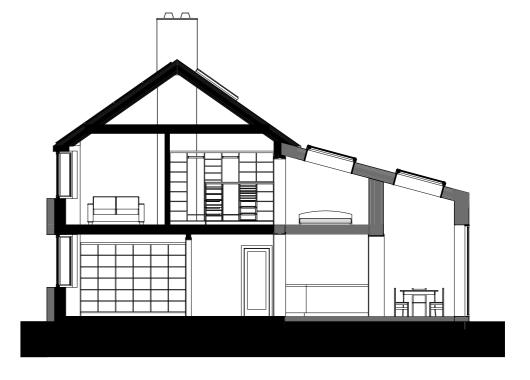
**Above** Proposed Site plan



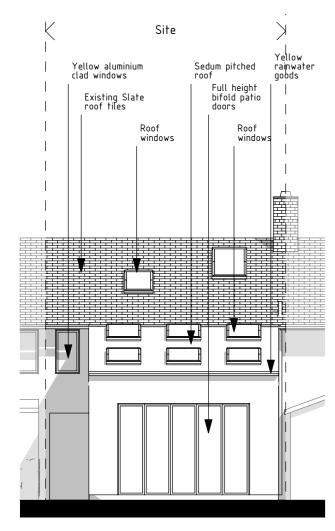
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**Below** Proposed First Floor Plan



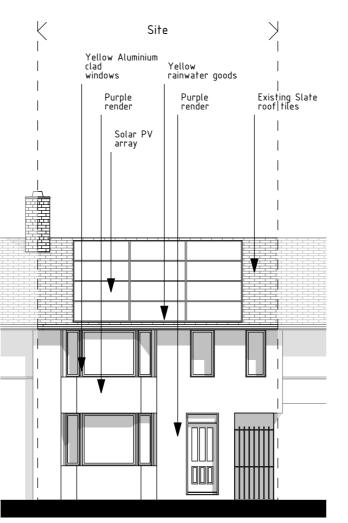


#### **Above** Proposed Roof Plan



#### Below

Proposed Rear and Front Elevations



**Above** Proposed Section A



**Below** Proposed Section B

#### LOCAL RESIDENTIAL CONTEXT

#### **Materials**

Proposed materials of the extension are to complement the existing while achieving the high environmental standards required by the Applicant's brief. The design proposes buff render walls to the existing and proposed walls with slate roof tiles and a sedum mat to the flat roof portion of the new rear extension. All new windows, doors and roof windows are to be triple glazed fitted with dark grey frames, matching the rainwater goods. It is common practice for the houses in the local area to have a finish of render across the external façades.

2

The proposals include a 1.5 storey rear extension, and a widening of the existing drop curb to the frontage of the property. Both of these adjustments can be seen in multiple precedented examples.

To the right are maps exploring these examples within the local area of the site.





Glazing New rear extension roof All windows and doors to be

double/triple glazed with a yellow frame (image to the right shows window style not colour)



Purple render All building facades (image to the left shows render texture, not colour)



Permeable paving front driveway



Solar PV Solar PV panels on roofs



ref: A089







#### **DAYLIGHT SUNLIGHT ANALYSIS**

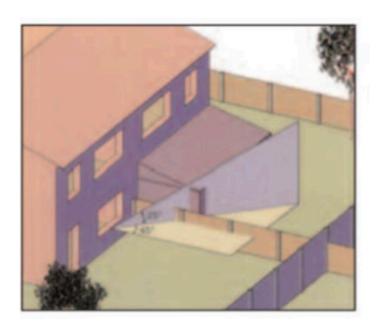
The Oxford City Council adopted Local Plan 2036 stipulates that any residential development has considered the effect of the proposals on neighbouring buildings quality of light.

#### Appendices 3.7

'While development proposals will be considered in the light of these factors, as a guideline to assess their impact on daylight, sunlight and outlook, the City Council will use the guidelines illustrated below. In normal circumstances, no development should intrude over a line drawn at an angle of 45° in the horizontal plane from the midpoint of the nearest window of a habitable room and rising at an angle of 25° in the vertical plane from the cill"

These proposals have been assessed against Example 2 in the Local Plan, and can conclude that this proposal will not have a detrimental affect to the neighbouring property. This is illustrated in the diagram below. To the right is a excerpt of the example diagram.

The rear windows of 78 Campbell Rd, which are adjacent to the extension, do not require assessment as it is not to a habitable room (bathroom).



## **SUSTAINABILITY**

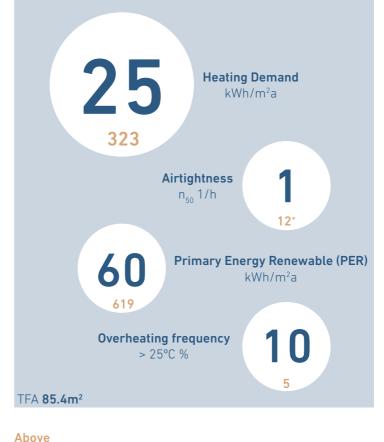
A key element of the Applicant's brief was the deep In conclusion, the proposed design for the rear retrofit to existing house to Passivhaus EnerPHit in extension and energy retrofit of the domestic addition to the ecological rear extension. property adheres meticulously to Oxford City Council's regulations on overlooking, daylight, Passivhaus energy modelling (PHPP) has been used and sunlight. Furthermore, the integration of to calculate the current energy demand and future sustainability measures stands as a testament to performance. This analysis was used to inform the the commitment to reduce the building's carbon package of measures to reduce the energy demand emissions.

of the home.

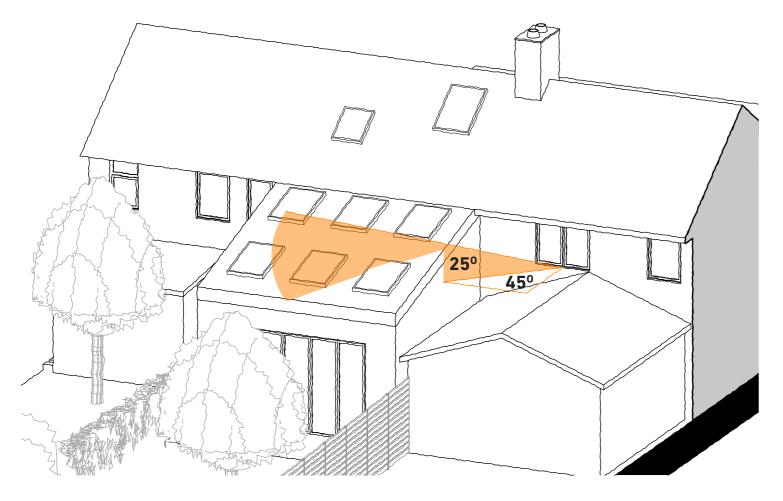
The incorporation of ecological materials not only The existing carbon emissions of the house is 7.1 promotes environmental responsibility but also Tonnes CO2/year. With the package of measures enhances the overall ecological footprint of the proposed as part of the proposals, which includes property. This proposal embodies a harmonious blend solar PV, an air source heat pump and MVHR, has of innovative design, environmental consciousness, brought the carbon emissions to -0.08 Tonnes CO2/ and compliance with regulatory guidelines, offering year and an energy demand reduction of 90%. This a sustainable and forward-thinking upgrade to the aligns with the Local Plan which states that: existing property.

"New development is expected to incorporate sustainable design and construction principles of the highest environmental standards in order to reduce carbon emissions.

The proposals also include a replacement of the concrete front drive, with a permeable paving system which support the reduction of local flooding



EnerPHit energy targets. Existing figures are below in brown for comparison.



ref: A089

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#### CONCLUSION