Roberts Limbrick

Sixth Form Expansion, Burford School

Sustainability Statement

Client:	Burford School
Author:	FG
Number:	P6021
Revision:	C01
Issued:	May 2023

00 Contents

01 Introduction

1.1 Purpose

This Sustainability Statement has been prepared in support of the planning application to deliver the proposed works, and references the sustainabiility standards checklist and energy performance.

All drawings in this report are for illustrative purposes only. The drawings which constitute the application have been submitted separately and should be referred to in all matters of record.

1.2 Scheme Background

Roberts Limbrick produced a Premises Development Plan (PDP) on the behalf of the School in 2020.

As a part of the PDP a gap analysis was carried out to look at shortfalls in the School's accommodation compared to BB103. A number of areas were identified to target for improving the School's provision including the Sixth Form Centre and the Library.

The Library (Phase 1) was completed at the end of 2022, and includes the conversion of the West Dining Room and Room 8 to the new library, along with SF6 in the sixth form area becoming the new IT room to replace room 8.

This planning application relates to the second phase of work.

Phase 2 will look at how the existing library (soon to be vacant) and the existing sixth form spaces can be reconfigured to a sixth form centre providing high quality social and study spaces.

1.3 The Project Brief

Functional Requirements
The key functional requirements for this project, as agreed with the client, were as follows:

- Make use of school's existing building stock
- Provide an internal link between the existing buildings considering the level change to create a sixth form centre which feels connected
- Provide adequate study and social space for the sixth form with associated staff spaces
- Provide a sixth form cafe and dining space
- Look to alleviate pressures on the whole school dining

1.4 Site Location

The site address is:

Burford School
Cheltenham Road
Burford
Oxfordshire
OX18 4PL

The school can be found off the Cheltenham-Burford Road (A40).

1.5 Planning Package

Roberts Limbrick Drawings:

10637-P0001	Site Location Plan
10637-P0021	Existing Block Plan
10636-P0031	Existing Site Plan
10637-P0311	Existing Floor Plan
10637-P0391	Existing Roof Plan
10637-P0401	Existing Elevations Sheet 1
10637-P0402	Existing Elevations Sheet 2
10637-P2021	Proposed Block Plan
10637-P2031	Proposed Site Plan
10637-P2300	Proposed Floor Plan
10637-P2391	Proposed Roof Plan
10637-P2401	Proposed Elevation Sheet 1
10637-P2402	Proposed Elevation Sheet 2
10637-P2410	Proposed Canopy Elevations Sheet 1
10637-P2411	Proposed Canopy Elevations Sheet 2
10637-V6000	Proposed 3D Images Sheet 1
10637-V6001	Proposed 3D Images Sheet 2

Roberts Limbrick Reports:

10637-P6021	Sustainability Statement
10637-P6031	Design and Access Statement

02 Sustainability

2.1 Summary

The scheme looks to retrofit two of the school's existing buildings, supporting the path to net-zero carbon targets whilst meeting the school's needs. Making use of two of the school's existing buildings reduces the embodied carbon emissions.

Sustainable material choices have been made such as the use of locally sourced timber which sequesters carbon, and a sedum roof to encourage biodiversity and reduce water runoff. Where possible, passive systems and strategies have been used, but in cases where mechanical systems are required these have been designed and specified to be as efficient as possible.

External landscaping will provide amenity space for students and allow part of this to become rewilded will also provide a diverse habitat for pollination.

Water consumption will be minimised where possible in line with current guidance and regulations. No rainwater harvesting or grey water recycling system is proposed.

The site is very low risk of future flooding and considered very low risk of flooding from rivers and sea, and very low risk of flooding from surface water, unlikely to flood from groundwater and unlikely to flood from reservoirs.

During the construction process, a site waste management plan will be in place.

A biodiversity self-assessment form has been submitted in support of the application.

2.2 Energy Performance

The scheme has been designed to reduce the school's reliance on gas, reduce the energy required and use an air source heat pump. The design of the building has been carefully considered to ensure that the scheme will meet all current building regulation standards regarding U-Values, insulation, and ventilation requirements.

Sufficiently insulating the new build element will reduce energy used to heat the buildings. Openable windows mean that the building can be naturally ventilated when required, and an MVHR system will be provided in line with what has been used elsewhere in the school.

03 Sustainability Standards Checklist

3.1 Net Zero Carbon

1. **Has the building fabric been designed to standards of ultra-low energy demand?**

Energy use intensity target for schools - <65 kw/m2.yr
Building fabric will be designed to be in line with building regulations.

2. **Has thermal comfort and the risk of overheating been assessed and passive design measures prioritised?**

- High level of insultation
- MVHR
- Openable windows with the ability to cross ventilate

3. **Is the development fossil free?**

No but reliance on gas will be reduced and overally energy expenditure will be lowered - an air source heat pump is to be provided.

4. **Does the development achieve a net zero operational carbon balance and deliver 100% of energy using renewables?**

No

5. **Have embodied carbon emissions been minimised?**

- Reuse of existing which saves 50%-75% of embodied carbon emissions compared to constructing a new building.
- Timber cladding – biogenic carbon sequestered in timber until the end of its life from a local timber mill.

3.2 Travel

1. **Is home working supported?**

N/A - school project not domestic.

2. **Has active travel been prioritised?**

N/A - project has no impact on existing travel arrangements.

3. **Is shared mobility facilitated?**

N/A

4. **Has electric vehicle charing infrastructure been provided?**

N/A - project has no impact on existing travel arrangements, vehicular access or parking infrastructure.

3.3 Water

1. **Will water consumption be minimised?**

Water consumption will be minimised in line with building regulations.

2. **Will water be conserved through rainwater harvesting or grey water recyling?**

The scheme is not proposing to use rainwater harvesting or grey water recycling.

3. **Has the flood risk assessment accounted for climate change and is sustainable drainage proposed?**

The site is deemed:

- Very low risk of flooding from rivers and sea
- Very low risk of flooding from surface water
- Unlikely to flood from groundwater in the area
- Unlikely to flood from reservoirs

A green roof will reduce volume of runoff on the new build element, and will attenuate peak flow.

3.4 Waste

1. **Is the construction company registered with the considerate construction scheme?**

No - the contractors are fit-out specialists who have worked with the School successfully on previous projects.

2. **Will a site waste management plan be followed and targets set for construction waste recycling and disposal?**

Yes

3. **Will there be safe and convenient access for waste recycling?**

Yes

3.5 Biodiversity

1. **Has a biodiversity self assessment form been submitted?**

Yes

2. **Has an ecological impact assessment report and checklist been submitted?**

No

3. **Will a European site be affected?**

No

4. **Has a biodiversity net gain design stage report been submitted?**

No

5. Will the wider environmental benefits from nature be maximised?

Allowing part of the sixth form garden to become rewilded will give the space an identity whilst also providing a diverse habitat for insects and pollination.

3.6 Voluntary Standards

1. **Will non-domestic development be BREEAM certified?**

No

2. **Will the development receive a sustainability accreditation and / or follow recognised sustainability principles?**

No


Roberts Limbrick