

**CONSTRUCTION
ENVIRONMENTAL
MANAGEMENT PLAN**

at

**Upper Batley High School
Batley Field Hill
Batley
West Yorkshire
WF17 0BJ**

Client:

MPH Building Systems Ltd

Client Address:

**Hoyers Industrial Estate
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JCA Ref:

19166c/JF

Date of Report:

23/03/2023



Quality Assurance

JCA ref.	Desktop Survey Completed:		Site Surveyed:		Report Completed:		Checked:	
	Date	Name	Date	Name	Date	Name	Date	Name
19166c/JF	N/A	N/A	N/A	N/A	23/03/23	James Foster	31/03/23	Eve Goodwin
							03/04/23	Adam West

This report has been prepared and provided in accordance with the *British Standard 42020: Biodiversity – Code of practice for planning and development* and the *CIEEM's Code of Professional Conduct*.

Risk Assessment Completed	N/A
Bio-security Procedure Completed	
Lone Worker Procedure Completed	

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1. Introduction

1.1 Background

- 1.1.1 In March 2023, JCA Ltd was commissioned by **MPH Building Systems Ltd** to produce a Construction and Environmental Management Plan (CEMP) for a site located at **Upper Batley High School, Batley Field Hill**, hereafter referred to as 'the site'.
- 1.1.2 To support the fulfilment of the above brief the following have previously been undertaken:
- Preliminary Ecological Appraisal (PEA) (JCA, 2022).
- 1.1.3 The UKHab habitat survey was undertaken in October 2022 by JCA. The Biodiversity Accounting Assessment was undertaken November 2022.

1.2 Scheme Description and Location

- 1.1.1 The site is located at Ordnance Survey (OS) National Grid Reference **SE 24149 24982**, with nearby postcode **WF17 0BJ**. The site is bordered primarily by residential properties. Agricultural fields and woodland parcels are present in the wider landscape, in particular to the north, northeast and northwest.
- 1.1.2 The scheme is the erection of two-storey modular building.

1.2 Summary of Baseline Ecology Likely to Be Affected

- 1.2.1 The PEA (JCA, 2022) details the habitats and species present on site that are vulnerable to adverse impacts, either directly or indirectly, by the proposed works and provides a detailed discussion of the ecology of the site.
- 1.2.2 Statutory designated sites

The MAGIC website revealed no internationally designated sites within 2km of the site.

The MAGIC website revealed no nationally designated sites within 2km of the site.

1.2.3 Non- statutory designated sites

Records received from West Yorkshire Ecology Service (WYES) revealed two non-statutory designated sites within 2km of the site, detailed in **Table 1** below.

Table 1: Non-statutory designated sites within 2km of the site, returned from WYES.

Site Name	Distance (m)	Reasons for Designation
Morley Spring Wood LWS	1186	LWS
Birkby Brow Wood LWS	1525	LWS
Key: LWS – Local Wildlife Site		

1.2.4 Habitats

The following habitats were recorded:

- g3c - Other neutral grassland with scattered scrub (10) and ruderal/ephemeral (17).
- g4 - Modified grassland with scattered scrub (10), mown (64) and bare ground (73). Two brash piles and a rubbish pile were also present in this habitat.
- w1h - Other woodland; mixed. A small patch of rockspray cotoneaster *Cotoneaster horizontalis* was also present in this habitat.
- h2a - Hedgerow (priority habitat), hedgerow with trees (190)
- h2b - Other hedgerows
- h3 - Dense scrub
- u - Urban trees
- u1 - Built-up areas and gardens, vegetated gardens (231), un-vegetated gardens (232) and introduced shrub (1160). Several brash piles and Himalayan balsam *Impatiens glandulifera* were also present in this habitat.
- u1b - Developed land; sealed surface.
- u1b5 - Buildings.

1.2.5 Species

- The PEA revealed the sites' suitability to support nesting birds. Urban trees were identified on site, which have potential to support nesting birds. The proposed development therefore may impact nesting birds.
- The PEA revealed the sites' suitability to support commuting hedgehogs. The adjacent woodland to site is suitable habitat to support commuting, foraging, resting and hibernating hedgehogs, and therefore hedgehogs could be utilising the grassland on site to commute to and from these features. Therefore the proposed development may impact commuting hedgehogs.

- The PEA revealed a building adjacent to the site with moderate potential to support roosting bats. There is also woodland adjacent to the site with potential to support commuting and foraging bats. The urban trees on site could also support commuting and foraging bats. The building and woodland aren't part of the proposed development, however, it's close enough to be impact by the proposed development. Therefore, the proposed development may impact commuting, foraging and roosting bats.

1.3 Scope of the CEMP

2 Aims and Objectives

2.2 Aim

2.2.1 Preservation and enhancement of the site's ecology, with regards to:

- Nesting birds.
- Roosting/commuting/foraging bats.
- Commuting hedgehogs.

2.3 Objectives

- To ensure no breach of UK wildlife legislation occurs on site for the duration of the proposed development.
- To minimise damage to adjacent habitats as part of the final development.

2.4 Ecological issues

2.4.1 The priority ecological issues i.e., those that have legislative requirements or planning considerations and are relevant to the site and the proposed works, are as follows:

- National legislation
- Bats and their roosts are protected under the Conservation of Habitats and Species (Amended) (EU Exit) Regulations 2019.
- Nesting birds are protected under the Wildlife and Countryside Act 1981 (as amended).
- Badgers and their setts are protected under the Wildlife and Countryside Act 1981 (as amended) and the Protection of Badgers Act 1992.
- Hedgehogs are protected under the Wildlife and Countryside Act 1981 (as amended) and the Wild Mammal Protection Act 1996.
- Invasive species are designated as a schedule 9 species under Wildlife and Countryside Act 1981 (as amended).

3 Environmental Management Framework

3.2 Environmental Policy

3.2.1 The project will be carried out in accordance with the policies / objectives listed below:

- The National Planning Policy Framework;
- Kirklees Council's Environmental Policy and procedures;
- The designer's environmental policy and procedures; and
- During the pre-construction and construction phases, management of the project will also need comply with the Contractor's Environmental Policy and procedures.

3.3 Environmental Aspects and Impacts

3.3.1 Environmental objectives for the construction phase will be developed and should refer to legal compliance and environmental good practice, these will include:

- Zero pollution incidents; and
- Protect and where possible enhance biodiversity.

3.3.2 Procedures for monitoring construction processes against the project environmental objectives will be proposed by the Contractor and agreed with the Client Project Manager.

3.4 Training, Awareness and Competence

3.4.1 Site staff shall be competent to perform tasks that have the potential to cause a significant environmental impact. Competence is defined in terms of appropriate education, training and experience. Project specific training is required and the information provided in this CEMP, together with the findings of any pre-construction surveys or site checks may be used as part of this training.

3.4.2 Environmental awareness and training shall be achieved by:

- Site induction, including relevant environmental issues;
- Environmental posters and site notices;
- Method statement and risk assessment briefings;
- Toolbox talks, including instruction on incident response procedures; and
- Key project-specific environmental issues briefings.

3.4.3 All managers and supervisors will be briefed on the CEMP.

3.4.4 Method Statements will be prepared for specific activities prior to the works commencing and will include environmental protection and mitigation measures and emergency preparedness appropriate to the activity covered. The Construction Site Manager will review key Method Statements prior to their issue.

3.4.5 Method Statement briefings will be given before personnel carry out key activities for the first time.

3.5 Evaluation of Compliance

3.5.1 The Contractor will define procedures for regular site surveillance to evaluate performance against legal requirements and the requirements of the CEMP.

4 Operational Control Procedures

4.2 General

4.2.1 Specific management proposals to be included in the CEMP are to be developed relating to the following topics:

- Site establishment;
- Boundary fencing;
- Pollution prevention;
- Protection of existing environmental features;
- Site housekeeping;
- Nature conservation;
- Compensation & enhancement; and
- Landscape design.

4.3 Site Establishment

4.3.1 Facilities will be established by the contractor to minimise risks to the environment and promote efficient use of resources. This will include:

- Temporary protective fencing will be erected to delineate the working areas, site boundaries and protect sensitive features from disturbance.
- Provision of temporary offices, welfare facilities and secure storage of equipment.
- Any necessary fuel and oil will be stored in accordance with the Control of Pollution (Oil Storage) (England) Regulations 2001. Refuelling will only be undertaken in designated area, designed to contain contaminated runoff, and by trained personnel. Emergency spill kits will be readily available.
- Materials storage areas will be set up and managed.
- Waste segregation areas will be established utilising containers of an appropriate design to ensure that no waste can escape.
- Sewage effluent from the site office and welfare facilities will be removed from site, using a vacuum tanker, if no sewer connection is available.
- Temporary lighting will be designed to minimise spillage of light, and oriented away from features of ecological importance and residential properties.
- The temporary site compound will be reinstated to its former condition, following completion of the project.

4.4 Boundary Fencing

killed in excavations or around plant or materials.

4.5 Pollution Prevention

- 4.5.1 A pollution control and contingency plan will be developed by the Contractor to provide details of the measures to be implemented to prevent pollution and the actions to be taken in the event of an environmental incident or emergency. The pollution control plan will consider measures for reducing or removing impacts to the national forest inventory parcels that are adjacent to the site.
- 4.5.2 An 'environmental incident' is defined as any event, activity or condition that causes, or has the potential to cause harm to people, or damage to property or the environment. 'Pollution' is defined as any harmful impact on the local atmospheric, aquatic or land environment caused by release of hazardous or nuisance-causing substances or excessive noise and vibration.
- 4.5.3 Measures will be developed to control site runoff and prevent contamination. Account will be taken of the following good practice guidance: Regulatory guidance is available from GOV.UK. Current guidance explains how to: report an environmental incident, get permission to discharge to surface or groundwater, manage business and commercial waste, store oil and any oil storage regulations, discharge sewage with no mains drainage, work on or near water and manage water on land.
- PPG 1: Understanding your environmental responsibilities - good environmental practices.
 - GPP 5: Works and maintenance in or near water.
 - PPG 6: Working at construction and demolition sites.
 - GPP 21: Pollution incident response planning.
 - GPP 22: Dealing with spills.

4.6 Protection of Existing Environmental Features

- 4.6.2 Inappropriate lighting in the vicinity of the woodlands, urban trees and main school building can cause disturbance to commuting/foraging/roosting bats. At first instance, night-time working should be avoided. If this is not possible, any additional lighting that might be required onsite should not add to existing night-time light levels in proximity to the woodland, urban trees and the main school building. A lighting design scheme should also be incorporated into the proposed development plans. Below, we have prepared guidance in line with the information

provided by the Institute of lighting Professionals (ILP, 2018) to aid in planning lighting schemes with the aim of further limiting the impact that lighting may have on local wildlife populations post development.

It is important to avoid:

- Uniform levels of luminance across the site.
- Metal halide and florescent lighting.
- Upward tilting lighting that increases skyline luminance.

Instead, the following should be installed:

- Dark buffer zones.
- Screening in the form of vegetation, fences and structures.
- Appropriately designated darkened areas.
- Luminaries absent of UV elements.
- LED luminaries with a sharp cut-off, low intensity and good rendition.
- Peak luminaire wavelength at a minimum of 550nm.
- Downward directional luminaires with upward light ratios of 0%.
- Lower light columns to limit light spill.
- Recessed internal light fixtures.

4.6.3 The most important element of the lighting scheme is that no light spill is to fall into the woodlands, urban trees or main school building.

4.6.4 If the measures and procedures above are followed, the woodland, urban trees and main school building will not be impacted on by the proposed development.

4.6.5 Birds

Any site clearance (including trees) must take place between September and January (inclusive) to avoid destruction of bird nests or disturbing active bird nests. If site clearance cannot take place in this period, a nesting bird survey must take place no more than 24 hours before clearance works. Any active nests must remain *in situ*, surrounded by a buffer of undisturbed vegetation, until any young have fledged.

1.3.2 Hedgehogs

The boundary fencing installed around the perimeter of the development should exclude any hedgehogs from the construction zone. However, to further protect hedgehogs, any excavation of the site should be covered overnight, or if not possible, a safe exit route provided for hedgehogs to leave the site, such as an artificial ramp to aid their exit. Lighting should not spill on the surrounding woodland as this could disturb commuting and foraging hedgehogs.

4.7 Site Housekeeping

4.7.1 A 'good housekeeping' policy will be adopted across the site. This will include the following requirements:

- No fires on site.
- Disposal of waste in designated areas.
- Removal of food waste and other rubbish at frequent intervals.
- Maintenance of cleanliness surrounding the site.

4.8 Nature Conservation

4.8.1 Plans for managing any protected species are to be finalised, implemented and monitored. The Construction Environmental Manager is required to monitor ecological measures and ensure protected species are safeguarded.

4.8.2 Ecological surveys have been undertaken to establish whether protected species use the habitat types found within the site (section 1.2).

4.8.3 There are protected species using the site. These include (or recently included):

- Foraging and commuting bats; and
- Nesting birds.
- Commuting hedgehogs

4.8.4 Specific mitigation measures to prevent adverse impacts on protected species and high-quality habitats are set out below.

4.8.5 Site clearance (including trees) should take place outside the bird breeding season (February to August, inclusive). If any clearance is necessary within the bird breeding season, then it will only take place if the areas concerned have been checked by a competent ecologist and found not to contain any breeding birds. If an active nest is located, it is to be left in situ with a buffer of undisturbed vegetation around it until all young have fledged. The buffer will depend upon the species and the distance will be subject to the judgement of the ecologist. If any nesting bird/behaviour is observed at any time of the year, then construction works must cease, and an experienced Ecologist should be notified for further instructions.

4.8.7 A Biodiversity Enhancement Plan (JCA, 2022b) for the site has been constructed to maintain and benefit protected and notable species.

4.9 Compensation and Enhancement

4.9.1 Habitats onsite will be lost due to the construction scheme. To mitigate loss and disturbance, landscape measures will be further developed in the detailed design stage of the project to enhance habitats. Mitigation measures should aim to:

- Compensate for any adverse effects of the scheme.
- By the use of locally appropriate species, to create semi-natural habitats that reflect and complement those existing in the surrounding area.
- Contribute to appropriate Local Biodiversity Action Plan (LBAP) targets.

4.9.2 The habitats which will be lost to the scheme generally are of low ecological value as they either lack floral diversity or are unlikely to support protected or notable species. These habitats include modified grassland and an urban tree. The loss of these features will be compensated for within the Biodiversity Enhancement Plan (BEP) (JCA, 2023) which includes plans for habitat creation/enhancement.

4.9.3 The Biodiversity Enhancement Plan (JCA, 2023) also includes the need to ensure that the free movement of hedgehogs to be incorporated into the proposed development. This is to be delivered through the inclusion of hedgehog holes to be constructed within the sites' final boundary features such as walls and fences.

4.9.4 Management of the site will be the responsibility of the building's owner who will ensure regular maintenance of the newly created landscaping.

4.10 Landscape Design

4.10.1 A Landscaping and Ecological Management Plan (LEMP) will be produced for the site. The design will aim to enhance the site's biodiversity and provide ecological benefit for LBAP species.

4.10.2 A scheme of landscaping will be included with the project detailed design proposals. The plant species used in the landscaping scheme will be native of local provenance and appropriate to the local environment.

5 References

Internal references:

JCA Ltd. (2022) 19166 Preliminary Ecological Appraisal Report Rev 1 Issue
JCA Ltd. (2022) 19166a Biodiversity Accounting Assessment Issue

Relevant Legislation:

Wildlife and Countryside Act 1981, c. 69 (as amended). Available at:
<http://www.legislation.gov.uk/ukpga/1981/69>

Countryside and Rights of Way Act 2000, c.37. Available at:
<http://www.legislation.gov.uk/ukpga/2000/37/contents>

The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019, no. 579. Available at: <https://www.legislation.gov.uk/ukdsi/2019/9780111176573>

Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (as amended). Available at: <https://www.legislation.gov.uk/eudr/1992/43>.

Protection of Badgers Act 1992, c. 51. Available at: <http://www.legislation.gov.uk/ukpga/1992/51>.

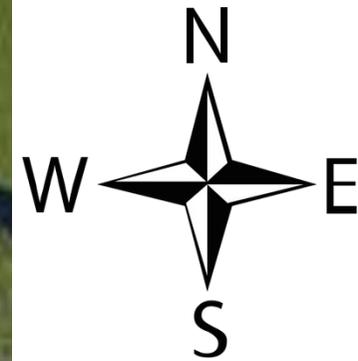
The Hedgerow Regulations 1997, no. 1160. Available at: <http://www.legislation.gov.uk/uksi/1997/1160>.

Wild Mammals (protection) Act 1996, no.3. Available at: <https://www.legislation.gov.uk/ukpga/1996/3>

Appendices

Appendix 1: UKHab Habitat Map

UKHab Habitat Map - Upper Batley High School



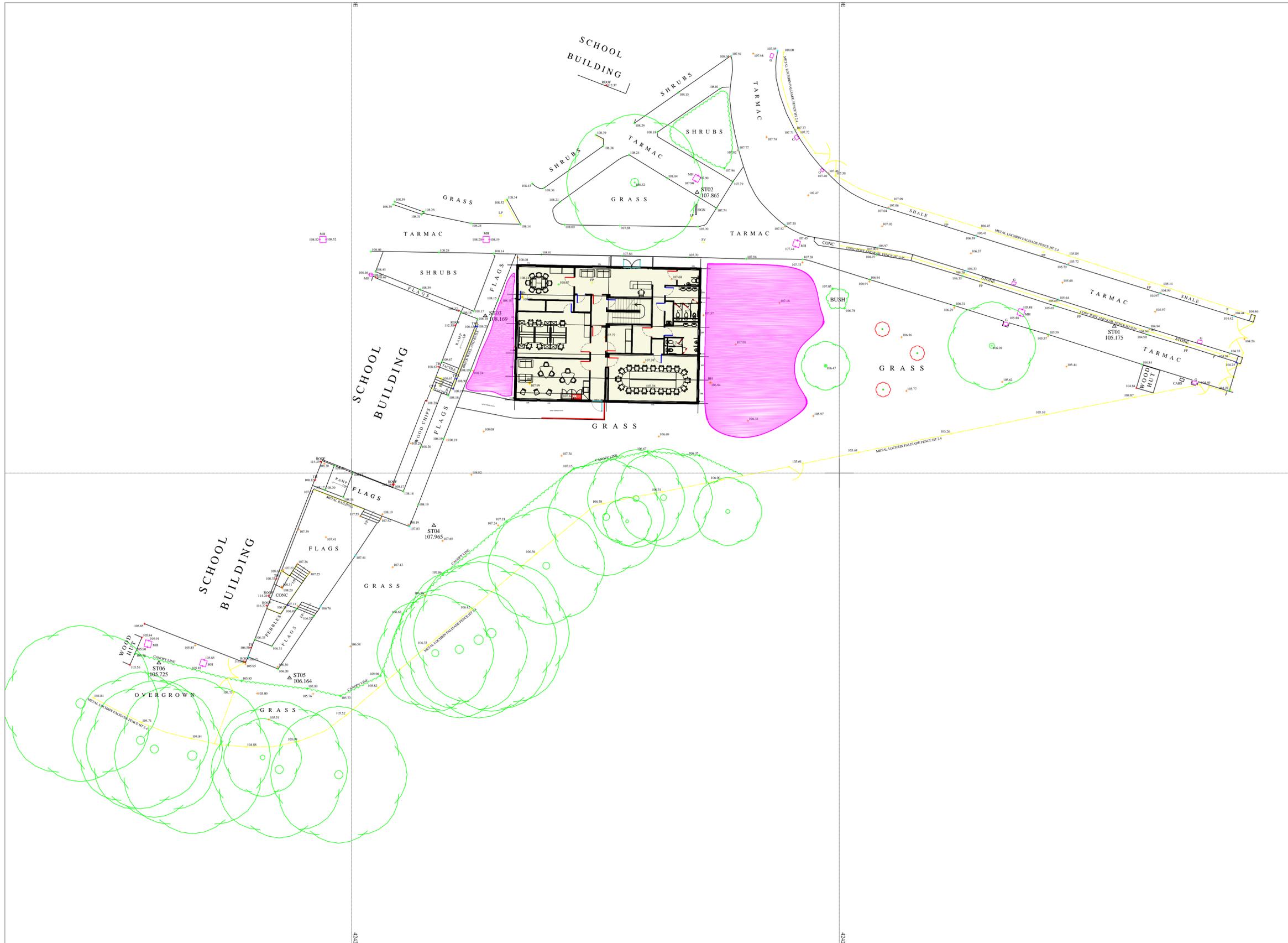
Key:

-  g4 Modified grassland
-  u1b5 Buildings
-  u Urban trees
-  Red line boundary

0 10 20 m



Appendix 2: Proposed Development Plan



Notes

LEGEND

- AREA OF WILD FLOWER PLANTING/MEADOW - 207m2 Approx.
- + REPLACEMENT TREES

**PRELIMINARY ISSUE.
WORK IN PROGRESS
DRAWING**

Rev	Description	Date	Dr by	Ap by
B	DWG UPDATED TO INCLUDE SUGGESTED LANDSCAPING AND PLANTING.	21.11.2022	GB	GB
A	BUILDING POSITION AMENDED SLIGHTLY. BUILDING LINE PUSHED BACK FROM PATH EDGE BY 1000mm. BUILDING FOOTPRINT REPLACED WITH GF LAYOUT AND PRELIMINARY EXTERNAL LANDSCAPING AND/OR NEW PATHWAYS INDICATED.	01.11.2022	GB	GB

Original by



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Client
 UPPER BATLEY HIGH SCHOOL

Project
 ADMIN BLOCK

Drawing
 DRAFT SITE PLAN

Symbols	Comments

Issue status	Scale	Date
P Preliminary	1:200 @ A1	AUG 2022
T Tender	B P	Project / Drawing Number D10592-03
C Construction	This dwg is to be read in conjunction with all related dwgs. Do not scale from this dwg. All dimensions must be checked and verified on site before commencing any work or producing shop dwg. The originator should be notified immediately of any discrepancy.	
B As Built	This dwg is copyright and remains the property of MPH Building Systems.	

Appendix 3: Author Qualifications

Adam West, Principal Ecologist

BSc (Hons) Animal and Wildlife Management.

Adam joined JCA to lead the expanding ecology department. Having returned to education as a mature student, Adam studied Countryside Management for two years before undertaking a Bachelor's degree, for which he was awarded First Class Honours. Adam has many years' experience in ecological consultancy, working on projects ranging from individual planning applications to national infrastructure projects. Adam holds a Natural England Level 1 great crested newt survey class licence and a Natural England Level 2 bat survey class licence.

James Foster, Assistant Ecologist

BSc (Hons) Biology.

James gained his undergraduate degree in biology in 2012 from University of Leeds. James has plenty of experience in ecology, having worked countless projects of different scales all over the north and midlands. James has 9 years of experience surveying anything from reptiles to hedgerows and holds a Great crested newt licence level 1 and is working towards his bat licence and barn owl licence.

Eve Goodwin, Graduate Ecologist

BSc (Hons) Plant Biology

Eve gained her Royal Society of Biology accredited undergraduate degree in 2019 from Aberystwyth University in Plant Biology. She has good plant identification skills which were developed through her academic studies and field work. She has since worked as a CAD technician and has joined JCA in 2022 where she hopes to develop her field skills further.

I hope that this scheme and methodology provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed



.....
James Foster
23/03/2023

Reviewed by



.....
Eve Goodwin
31/03/2023

Reviewed and authorised by



.....
Adam West

03/04/2023

For and on behalf of **JCA Ltd**

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ECOLOGICAL SERVICES

Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes
- Butterfly & Insect Surveys

Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)
- Planting Schemes
- Monitoring of bird or bat boxes.

ARBORICULTURAL SERVICES

Guidance for Architects & Developers

- British Standard 5837 Surveys
- Arboricultural Implications Assessments (AIA)
- Arboricultural Method Statements (AMS)

Advice for Engineers, Loss Adjusters and Insurers

- Tree Surveys for Subsidence
- Heave Assessment
- Tree Root Identification

Advice for Local Authorities and Social Housing

- Tree Safety Surveys
- Specialist Decay Detection
- Landscape and Orchard Design

Tree Advice for the Legal Profession

- Subsidence Litigation
- Personal Injury and Accident Investigation
- Expert Witness, Planning Inquiries and Appeals

Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

Tree Health and Pest and Disease Management

- Pest and Disease Surveys
- Tree Health Checks
- Disease Mitigation and Control



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