

BAT EMERGENCE SURVEY REPORT

Old Brickyard, Lodsworth, West Sussex

On behalf of: Mr & Mrs J Adams

Client:	Mr & Mrs J A	Mr & Mrs J Adams				
Project:	Old Brickyard	Old Brickyard, Lodsworth, West Sussex				
Reference:	LLD3002-EC	LLD3002-ECO-REP-002-01-BES				
Revision:	Date:	Date: Author Proof Approved				
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Validity:

This report is valid for 18 months from the date of the site visit. If works have not commenced by this date, an updated site visit should be carried out by a suitably qualified ecologist to assess any changes in the habitats present on site, and to inform a review of the conclusions and recommendations made.



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SUMMARY

Lizard Landscape Design and Ecology has been commissioned by Mr & Mrs J Adams to undertake emergence / re-entry surveys of Old Brickyard, Lodsworth, West Sussex (*Grid Reference: SU 81472 04478 – hereafter referred to as 'the site'*).

The site encompasses a residential property within rural surrounds, and proposals are focused on a 2no. storey dwelling on site. The dwelling (B01) is brick-built with pitched tiled roofs and hanging tiles on the first floor to all aspects. During the Preliminary Roost Assessment (PRA) carried out on 4th August 2023 the dwelling on site was categorised as a confirmed roost. Bat droppings were collected from within the loft space as well as externally, close to the southwest corner of the building. Further to this, the remains of a single bat was noted in the loft space on the initial visit. Three bat emergence / re-entry surveys were therefore recommended to gain information about the use of the building as a roost and to inform appropriate mitigation measures. Bat emergence / re-entry surveys were subsequently carried out in August and September 2023.

Emergence surveys were carried on 15th and 29th August and a re-entry survey on 12th September concentrating on B01. Bat activity across the surveys was high with emergences / re-entries recorded on all of the three visits.

The results of the survey suggest the likely presence of 1no. day roost of soprano pipistrelle, supporting 1no. individual, 3no. day roosts of common pipistrelle, supporting 8no. individuals and 1no. day roost of Brandt's, supporting 1no. individual. Further to this a number of emergences and re-entries have been assessed as evidence of a small maternity roost of common pipistrelles located within the southwest corner of B01.

As the works to B01 would cause damage or destruction of a bat roost, a licence shall likely need to be obtained from Natural England to allow works to progress. The exact need for a license shall be determined when final plans have been produced, and recommended mitigation measures which would form part of that licence are detailed herein.

1.0 INTRODUCTION

- 1.1 Lizard Landscape Design and Ecology has been commissioned by Mr & Mrs J Adams to undertake emergence / re-entry surveys of Old Brickyard, Lodsworth, West Sussex (*Grid Reference: SU 81472 04478 hereafter referred to as 'the site'*).
- 1.2 A Preliminary Roost Assessment (PRA) was carried out on 4th August 2023 and focused on the residential dwelling on site (B01). B01 was categorised as a confirmed roost due to direct evidence of bats including bat droppings within the lift space and below hanging tiles on the southwest corner of the house. The remains of a single bat were also noted in the loft space of B01. The purpose of the survey and this report is to establish the presence or absence of a bat roost within the buildings, characterisation of any roosts present and to allow the full impact of the proposed development to be established.
- 1.3 This report has been compiled in accordance with current guidelines, including British Standard 42020:2013 Biodiversity. Code of Practice for Planning and Development, 2013 and Bat Conservation Trust Best Practise Guidelines 2016.

Site Information

1.4 The survey is focussed on a residential dwelling located within a c. 0.3 hectares (ha) of residential property. The property also features a garage, lawns, scattered trees, ornamental planting and access/parking. Much of the site boundary is enclosed by trees, and woodland extends beyond to the south and north of the site.

Surrounding Landscape

1.5 The site is located to the north of Lodsworth, a village in West Sussex. The surrounding landscape is predominantly occupied by woodland with some open farmland and sparse residential properties.

1.6 The surrounding landscape is suitable for generalist species such as common pipistrelle (*Pipistrellus pipistrellus*) and aerial hawkers such as noctule (*Nyctalus noctula*). Woodland is prominent within the surrounding landscape and provides potential suitable habitat for Annex II species such as barbastelle bats.

Development Proposals

1.7 It is understood that proposals include extension of the dwelling, including alterations to the roof.

2.0 SCOPE OF THE SURVEY

- 2.1 The aim of the survey has been:
 - To assess the buildings for signs of current use by bats;
 - To establish the location of any roosts if present;
 - To establish the numbers and species of bats present;
 - To identify access points and flight lines to and from the building;
 - To provide suitable mitigation measures.

3.0 METHODOLOGY

3.1 Bat Emergence / Re-entry Surveys

- 3.1.1 In accordance with current best practise guidelines (BCT, 2016), 3no.
 emergence / re-entry surveys of B01 were completed on 15th August, 29th
 August and 12th September 2023 to characterise the roost(s) and provide data to inform the impacts of development of B01 upon roosting bats.
- 3.1.2 4 no. bat surveyors were assigned a point each to adequately cover all potential roost features of each building (*Refer to Figure No. 01 Bat Survey Plan*).
- 3.1.3 The dusk surveys started 15 minutes before sunset and terminated 1.5 hours after sunset. The dawn survey started 1.5 hours before sunrise and terminated 15 minutes after sunrise. Data including species, behaviour and general patterns of activity were recorded throughout the survey. Details of the survey visits can be found in *Table No. 01* below:

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Date	15/08/23	29/08/23	12/09/23
Survey Type	Dusk	Dusk	Dawn
Surveyors	CF, HS, CO, PA	SH, MV, HS, CO	LB, SH, CF, MV
Weather	17°C, WF2, 50% cloud, dry	17°C, WF1, 100% cloud, light rain	17°C, WF1, 10% light cloud and rain
Sunset	20:24	19:55	06:33
Start	20:09	19:40	05:03
Finish	21:54	21:25	06:48

Table No. 01 – Bat Emergence Survey Details

3.1.4 Bats were identified using Echo Meter Touch Pro 2 and Peersonic RPA3 bat detectors. Up to 4no. Sannce CCTV infra-red cameras with additional illuminators were also used to aid the surveys (see *Figure No. 02 - Bat Survey Plan*) in line with interim guidance (BCT, 2022).

Data Analysis

3.1.5 Sonogram analysis was undertaken using the Kaleidoscope programme and video footage was reviewed to check any potential emergences identified over the course of the surveys, as well as the darkest half an hour at the start / end of the dawn / dusk survey (respectively).

3.2 Limitation and Constraints

3.2.1 During the first survey on 15th August, bats were seen emerging by the surveyors before the survey start time (approximately 6no. bats). As such, species identification was not possible for these early emergences. No other limitations to the emergence / re-entry surveys were encountered, the surveys were undertaken at the optimal time of year and in suitable weather conditions for bats to be active.

4.0 RESULTS

4.1 Desk Study

- 4.1.1 The desk study returned records of common pipistrelle (*Pipistrellus* pipistrellus), soprano pipistrelle (*Pipistrellus pygmaeus*), Noctule (*Nyctalus noctula*), brown long-eared (*Plecotus auritus*), Natterer's (*Myotis nattereri*), Bechstein's (*Myotis bechsteinii*) and western barbastelle (*Barbastella barbastellus*) bats within 2.0km of the site area.
- 4.1.2 1no. mitigation licence in relation to bats has been issued within 1.0km of the site, located c. 100m west of the site. This mitigation license granted destruction of a resting place (breeding) and featured Brown long-eared, Natterer's, Common Pipistrelle and Soprano Pipistrelle bats.

4.2 Preliminary Roost Assessment

4.2.1 The initial survey completed in August 2023 was focused on the residential dwelling on site (B01). B01 was found to be a two-storey brick building with hanging tiles on all aspects and a pitched, tiled roof. Multiple gaps between tiles were recorded throughout the hanging tiles. Direct evidence of bats was recorded both internally and externally. Bat droppings were found within the loft space, scattered across the insulation and also outside of the building below the corner hanging tiles on the southwest corner of the house. The remains of a single bat were also discovered within the loft space. Therefore, B01 was categorised as a confirmed roost. For full details of the PRA refer to the Preliminary Roost Assessment (Lizard Landscape Design & Ecology, September 2023).

4.3 Bat Emergence / Re-entry Surveys

4.3.1 Multiple emergences / re-entries were recorded on all 3no. of the surveys.
 Soprano pipistrelle and common pipistrelle were responsible for the majority of recorded emergences / re-entries, as well as a single myotis re-entry.

Bat Emergence Survey – B01, 15.08.23

4.3.2 During this survey foraging and commuting activity of noctule, Leisler's (*Nyctalus leisleri*), common pipistrelle, soprano pipistrelle (*Pipistrellus pygmaeus*), myotis species (*Myotis sp.*) and long eared bat species (*Plecotus sp.*) were recorded in the local area. Emergences of common and soprano pipistrelle bats were recorded between 20:25 and 21:00. On this date, a total of 17no. confirmed emergences were recorded by 3no. surveyors as well as an estimated 6no. emergences that occurred prior to the start of the survey. The locations of emergences have been summarised in the table below and further detail can be found within Appendix A – Site Photographs and Appendix B – Full Survey Results.

Table No.	02 –	Emergence	Summary,	15.08.23
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Survey Point	Species	Notes
Southwest	S. PIP x 1 C. PIP x 8 PIP x 6	 2 x emerge from hanging tile (HT) on the western aspect. 7 x emerge from HT on the south aspect. Approx. 6x emerge from SW corner before survey start
Southeast	C. PIP x 2	1 x emerge from HT between left windows. 1 x emerge from HT below middle window.

Bat Emergence Survey – B01, 29.08.23

4.3.3 During this survey foraging and commuting activity of noctule, western barbastelle (*Barbastella barbastellus*), common pipistrelle, soprano pipistrelle, Serotine (*Eptesicus serotinus*) and myotis species were recorded in the local area. Emergences of common and soprano pipistrelle bats were recorded between 19:42 and 20:04. On this date, a total of 17no. confirmed emergences were recorded by 2no. surveyors. The locations of emergences have been summarised in the table below and further detail can be found within Appendix A – Site Photographs and Appendix B – Full Survey Results.

Table No.	03 –	Emergence	Summary,	29.08.23
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Survey Point	Species	Notes
Southwest	S. PIP x 3 C. PIP x 5	3 x emerge from corner hanging tile (HT) 5 x emerge from HT on south aspect to left of window.
Southeast	C. PIP	9 x emerge from 6 separate HTs next to the 3 windows and between left and middle windows.

Bat Re-entry Survey – B01, 12.09.23

4.3.4 During this survey foraging and commuting activity of common pipistrelle, soprano pipistrelle (*Pipistrellus pygmaeus*), long eared (*Plecotus sp.*) and myotis species (*Myotis sp.*) bats were recorded in the local area. Re-entries of common and soprano pipistrelle bats were recorded between 06:16 and 06:24. A single re-entry of a single Brandt's bat was also recorded at 06:07. On this date, a total of 4no. re-entries were recorded by 1no. surveyor (1no. of which is confirmed in another surveyor's notes). Common pipistrelle social calls were also noted towards the start of the survey. The locations of emergences have been summarised in the table below and further detail can be found within Appendix A – Site Photographs and Appendix B – Full Survey Results.

Survey Point	Species	Notes
	C. PIP x 3	Myotis re-entry under hanging tiles (HT) under central window.
Southeast	Myotis brandtii x1	3 x re-entry of c. pip from HT around central window and from corner HT to west of survey location.

- 4.3.5 Common pipistrelle emergences and re-entries were the most numerous across the 3no. survey visits. Peak counts for this species at each survey point are as follows:
 - Northwest 0
 - Northeast 0
 - Southeast 9
 - Southwest 14
- 4.3.6 High levels of foraging by common and soprano pipistrelle were consistent across all 3no. surveys from all survey points, with individuals recorded making use of the garden area and trees around B01. Brief activity from noctule, Leisler's, long eared species, myotis, serotine, Natterer's and the Annex II species western barbastelle suggests minimal foraging locally and/or simply commuting across the site.

5.0 Evaluation and Mitigation

- 5.1 The results of the survey suggest the likely presence of 1no. day roost of soprano pipistrelle, supporting 1no. individual, 3no. day roosts of common pipistrelle, supporting 8no. individuals and 1no. day roost supporting 1no. Brandt's bat.
- 5.2 Given the early emergence times recorded, and the fact that the survey was undertaken late in the season when maternity roosts may have begun to disband, the emergences recorded from hanging tiles to the south-western survey point of the building have been attributed to the likely presence of a small maternity roost of common pipistrelle.
- 5.3 In the absence of mitigation impacts may include killing or injuring of individual bats roosting within B01, damage, disturbance or destruction of bat roosts and loss of a maternity colony of common pipistrelle from the site. The impacts would be of major magnitude at the site / local level and certain to occur.
- 5.4 As the works to B01 would cause damage or destruction of a bat roost, a licence shall likely need to be obtained from Natural England to allow works to progress. The exact need for a license shall be determined when final plans have been produced, however mitigation measures are likely to be as follows:
 - Licence application made to NE once full planning permission is received.
 - Any works in the vicinity of the southwestern section of the building shall be timed to begin in the autumn (from mid-September to late-October) and be completed by the time the maternity colony begins reforming in early April. Works impacting day roosts can be undertaken at any time of the year (although should aim to avoid the hibernation season). No works to the building are to begin until the licence is received.
 - Bat boxes including 3no. crevice boxes shall be installed to the southern aspect of an adjacent mature tree.

- Once the licence is received, a toolbox talk shall be given to all contractors to make them aware of the legislation relating to bats, and what to do should a bat be unexpectedly found on site.
- Following erection of bat boxes, a soft strip of any roof and hanging tiles in the vicinity of the known roosts required for removal shall be completed. All works shall be undertaken under ecological supervision.
- Any bats found shall be caught by hand and released into the preerected bat boxes.
- Existing access points shall be re-instated following the works. Where this is not possible, compensatory features shall be created in a location as close to the existing as possible.
- <u>Non-bitumen coated roofing membranes (formerly BRMs) shall not</u> <u>be used in any building on site as this can cause bat entanglement</u> <u>and death.</u> Type 1F felt or a breathable membrane which has passed a snagging propensity test are the only membranes permitted for use under licence.
- Existing adjacent vegetation should be retained where possible.
- A monitoring visit shall be completed in the summer following completion of the works, with any remedial measures identified by the survey completed as soon as possible.
- 5.5 Any new external lighting should adhere to a sensitive lighting scheme with lighting kept to the minimum levels and angled down and away from roost access points and surrounding mature trees and hedges. Any soft landscaping should include '*bat-friendly*' planting to maintain and enhance the foraging resource on site.

6.0 **REFERENCES**

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Ministry of Housing, Communities & Local Government. (2021). National Planning Policy Framework. Fry Building, 2 Marsham Street, London. This publication is available [online] at <u>www.gov.uk/government/publications</u>

Multi-Agency Geographic Information for the Countryside (MAGIC). (2013).InteractiveMap.[online].Availablehttp://www.magic.gov.uk/Magicmap.aspx

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Appendix A – Site Photographs



Image No. 01 – B01, western aspect. Pipistrelle access points circled in red.



Image No. 02 – B01, western portion of southern aspect. Pipistrelle access points circled in red.

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Image No. 03 – B01, eastern portion of southern aspect. Pipistrelle access points circled in red. Myotis access point circled in yellow.

Date	15/08/23
Survey Type	Dusk
Sunrise / Sunset	20:24
Start Time	20:09
End Time	21:54
Start Temperature	17 ºC
End Temperature	16
Wind (Beauforts)	2
Cloud Cover	4/8
Rain	None

Appendix B – Full Survey Results

Surveyor	CF		
Survey Point	SW		
Brief Summary of Observed Bat Activity	after du seen	le of bats seen flying when first arrived, then quiet until c. 30mins sk, then high levels of activity, especially from C.pip, multiple bats to emerge from hanging tiles (check IR for numbers) with social g and activity nearby. Occasional passes of noctule and LEB too	
Time	Species	Notes	
20:25	S.pip	emergence from hanging tiles on Western aspect	
20:51	C.pip	emergence from hanging tiles on southern aspect	
20:52	C.pip	emergence from hanging tiles on southern aspect	
20:53	C.pip	emergence from hanging tiles on southern aspect	
20:56	C.pip	2 x emergence from Western and Southern aspects - fast quiet social calls	
20:58	C.pip	emergence from hanging tiles on southern aspect	
21:00	2 x C.pip	emergence from hanging tiles on southern aspect	
21:05	C.pip	HNS	
21:10	Myotis	HNS	
20:51-21:25	C.pip	near constant activity as bats fly past SW corner of building commuting / foraging. likely more bays emerged than were seen.	
21:25	LEB	HNS	
21:34	LEB	HNS	
21:49	LEB	HNS	

Surveyor	HS	
Survey Point	NW (unde	r the tree)
Brief Summary of Observed	C pip(s) foraging in western garden / along western elevation / north of	
Bat Activity	house for i	much of the survey.
Time	Species	Notes
20:25	S.pip	HNS
20:48	S.pip	HNS, short, faint
20:50-20:52	C.pip	Foraging near trees E of the site
20:54	C.pip	Flew from W towards house

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20:54	S.pip	HNS clear
20:55	Barb	Flew along W elevation towards N
20:55 - 20:58	C.pip	Flying back and forty along W elevation
20:59-21:10	C.pip x 2	Foraging back and forth along W elevation / around garden
21:12-21:40	C.pip	Foraging back and forth along W elevation / N of house
21:15	Noctule	HNS
21:18	S.pip	HNS
21:34	Noctule	HNS
21:42	Noctule	HNS
21:46	C.pip	HNS
21:51	C.pip	HNS, foraging, clear

Surveyor	со		
Survey Point	SE		
Brief Summary of Observed Bat Activity			
Time	Species	Notes	
20:31	C. Pip	Emergence from between left windows	
20:32	C. pip	Emergence from beneath middle window	
		6-7 emergences before survey start	
20:51	C.pip	Flying	
20:54		Circling garden, no call	
20:54	LE	Flew overhead, unsure of origin	
20:57	Myotis species	Circling garden	
20:58		Flying E, no call	
21:00		Emergences from Caleb's SP, flew E, no call	
21:03	C.pip	Flying from N to S, poss emergence from roof tiles	
21:05-21:40	C.pip	Foraging in gardens	
21:15	Noc	HNS	
21:20	S.pip	Flying N	

Surveyor	РА	
Survey Point	NE	
Brief Summary of Observed Bat Activity		
Time	Species	Notes
20:19	C.pip	Commute - x2 bats - flew off to North
20:23	S.pip	Commute - flew off to North
20:25	C.pip	Commute - flew off to North
20:31 - 55	S.pip	HNS x 3
20:54	C.pip	Flying around in loops
20:55	Barb	HNS
20:56	S.pip	Flying around in loops
20:57	C.pip	Flying around in loops

20:57	C.pip	Commute - x2 bats - flew off to North
20:58	C.pip	Commute - flew off to North
20:58	Barb	HNS
20:58	C.pip	Commute - flew off to North
20:59	C.pip	HNS
20:59	Barb	HNS
21:01	C.pip	Flying around in loops
21:01	C.pip	Commute - flew off to North
21:01-21:21	S.pip	Flying around in loops
21:01-21:21	C.pip	Flying around in loops
21:04	C.pip	Commute - flew off to North
21:17	S.pip	Commute - flew off to North
21:19	C.pip	Commute - flew off to West
21:22	Leisler's	HNS
21:24	S.pip	Flying around above house
21:25	LEB	HNS
21:26-21:55	C.pip	HNS
21:36-21:55	Noctule	HNS

Date	29.08.23
Survey Type	Dusk
Sunrise / Sunset	19:55
Start Time	19:40
End Time	21.25
Start Temperature	17 ºC
End Temperature	15
Wind (Beauforts)	1
Cloud Cover	8/8
Rain	Light and Partial

Surveyor	со	
Survey Point	SE	
Brief Summary of Observed Bat Activity		
Time	Species	Notes
19:46	C.pip	emergence from central HT
19:48	C.pip	emergence near Central window
19:49	C.pip	2X emergence from. side of left window
19:52	C.pip	emergence from between left and central windows
19:57	C.pip	emergence from near window on gable
19:58	C.pip	2x emergence from beneath middle window
20:04	C.pip	Emergence from somewhere around middle window, check IR
20:08	C.pip	Foraging
20:10	C.pip	Foraging

20:10-20:50	C.pip	2-3 bats foraging over gardens, some social calls
20:27	Noctule	HNS
20:38	Noctule	HNS
21:05	C.pip	circling building social.calling

Surveyor	mv	
Survey Point	ne	
Brief Summary of Observed Bat Activity		
Time	Species	Notes
19:43	C.pip	flew n from s over house
19:48	C.pip	flew up from east and round then overhead north
19:48	S.pip	HNS
19:49 - 04	S.pip	flew from South to n along east side x 4
20:06	C.pip	flew s to n over roof
20:16 - 17	C.pip	flew over house then off west x 2
20:20	Barb	2x flew n
20:20	Barb	flew from west circled, then exit west
20:21	C.pip	flew n from east side of house
20:22-20:30	С.рір	f over driveway, circling round house, sometimes 2 cp
20:25	S.pip	HNS
20:27	Noc	HNS
20:36-20:51	C.pip	foraging, circling round house
20:38	Noctule	HNS
20:44	Serotine	HNS
20:51	C.pip	social calls
21:00-21:13	C.pip	hns, some social calls
21:11	Myotis	HNS

Surveyor	HS	
Survey Point	NW	
Brief Summary of Observed Bat Activity		
Time	Species	Notes
19:43	C.pip	Flew from S to N over house
19:48	S.pip	Clear HNS
19:49	C.pip	Flew from S to N along E of house
19:53	S.pip	as above
19:54	Noctule	HNS
19:56	C.pip	Faint HNS
20:06	C.pip	Flew from S to N over house
20:10	C.pip	Faint, short HNS
20:10	Noctule	HNS

20:14	Barb	Flying low from W side and over SP
20:16	C.pip	Flew from SE, foraging over SP and around front of house, flew N
20:20	Barb	HNS
20:20	C.pip	Foraging within N of of site
20:22-20:30	C.pip	Flew from W side, foraging within N of site
20:26	S.pip	HNS
20:35- 20:50	C.pip	Flew from W, foraging within N of site
20:44	Serotine	HNS
21:02	C.pip	HNS
21:04	C.pip	Clear HNS - Social calls
21:05	Noctule	HNS
21:10	C.pip	HNS

Surveyor	SH	
Survey Point	SW	
Brief Summary of Observed Bat Activity		
Time	Species	Notes
19:42	C.pip	Emerge from corner hanging tile
19:45	S.pip	HNS
19:47	C.pip	3x emerge from hanging tile on south aspect, to left of window
19:48	S.pip	Emerge from corner hanging tile
19:55	C.pip	Emerge from corner hanging tile
19:56	S.pip	2x emerge from hanging tile on south aspect, to left of window
20:06 - 21:04	C.pip	Individual foraging overhead
20:58	Natterers	HNS

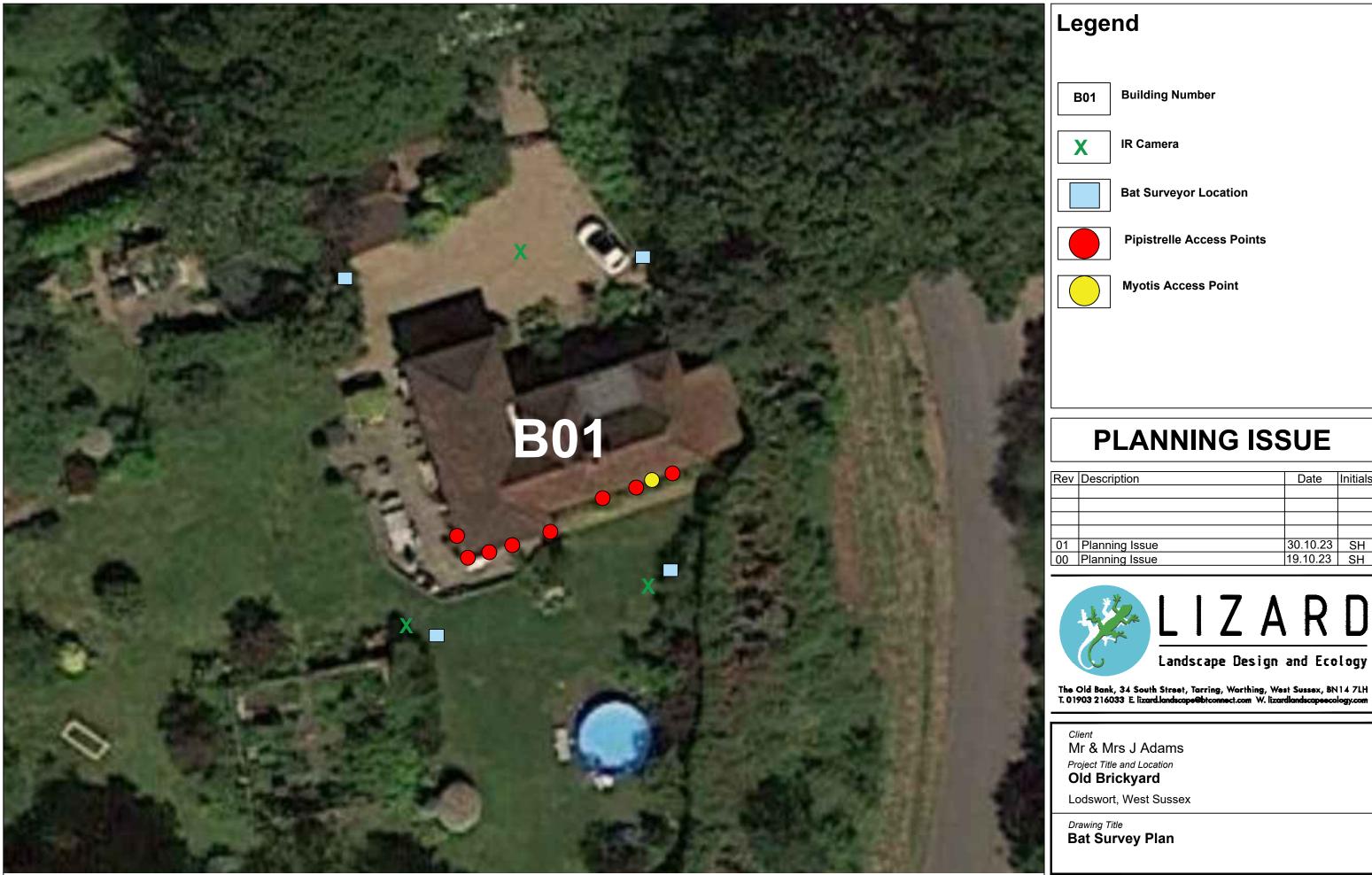
Date	12/09/23
Survey Type	Dawn
Sunrise / Sunset	06:33
Start Time	05:03
End Time	6:48
Start Temperature	17 ºC
End Temperature	17
Wind (Beauforts)	1
Cloud Cover	1/8
Rain	Light and Partial

Surveyor	CF	
Survey Point	SE of building	
Brief Summary of Observed Bat Activity		
Time	Species	Notes
05:05	C.pip	HNS
05:06	C.pip	HNS W/ soc callis
05:06	C.pip	HNS W/ soc callls
05:08	C.pip	HNS W/ soc callis
05:16	C.pip	HNS W/ soc callis
05:21	S.pip	HNS, brief
05:32	LEB	HNS, brief
05:40	S.pip	HNS with social call
05:43	LEB	HNS, brief
05:53	C.pip	C SW - coming from over building and flying over garden
06:01	C.pip	coming from behind and C N along Eastern edge of house
06:07	Myotis	re-entry under hanging tiles beneath window
06:16	C.pip	re-entry under hanging tiles immediately to left of 'A1 Security Alarm'
06:21	C.pip	re-entry under corner hanging tiles to west of survey position
06:24	C.pip	re-entry under hanging tiles beside 6:07 bat

Surveyor	SH		
Survey Point	NE		
Brief Summary of Observed Bat Activity			
Time	Species	Notes	
05:02 - 07	C.pip	Н	
05:17	C.pip	Н	
05:22	S.pip	Н	
05:33	myotis	Н	
05:42	S.pip	н	
05:47		Bat seen commuting W no call	
05:51		Bat commute over Eastern roof section no call	
05:55	C.pip	seen circling over house	
06:02	C.pip	flew S over house	
06:16	C.pip	forage N of house	
06:20	C.pip	commute S over E roof	
06:26	S.pip	Н	

Surveyor	MV sw ved one emergence (see pic). mostly quiet with some cp foraging over garden.		
Survey Point			
Brief Summary of Observed Bat Activity			
Time	Species	Notes	
05:05-10	C.pip	hns	
05:17	C.pip	hns	
05:24	S.pip	hns	
05:33	S.pip	hns	
05:40	S.pip	hns	
05:44	LEB	flew from e low in front of building	
05:56	C.pip	hns	
06:03-12	C.pip	foraging over southern and western lawn, sometimes 2 bats	
06:16	C.pip	flew e to w on front of building	
06:21	C.pip	reentry into corner hanging tile 6th up on south aspect corner facing se - see pic	

Surveyor	LB	
Survey Point Brief Summary of Observed Bat Activity	North	
Time	Species	Notes
05:03	C.pip	HNS
05:05	C.pip	HNS
05:33	Myotis	HNS
05:43	C.pip	flew over roof line to southern aspect
06:03	C.pip	flew over roof line to southern aspect
06:07	C.pip	HNS
06:15	C.pip	HNS
06:22	C.pip	flew NE round building



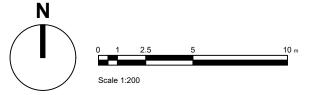
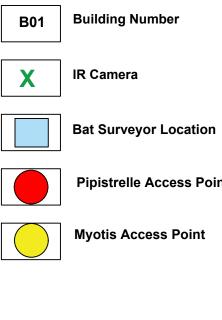


Figure No. 01 - Bat Survey Plan **Old Brickyard, Lodsworth, West Sussex**



Description	Date	Initials
Planning Issue	30.10.23	SH
Planning Issue	19.10.23	SH
	Planning Issue	Planning Issue 30.10.23

Client Mr & Mrs J Adams Project Title and Location Old Brickyard Lodswort, West Sussex					
Drawing Title Bat Survey Plan					
Scale 1:200 @A3	<i>Drawn</i> SH	Approved LB	<i>Date</i> 30.10.2023		
Drawing No	Revision 01				