

Details of Artificial Bird and Bat Box Locations



Land East of Chipping Lane, Longridge – Phase 2/3

30th September 2021



Tyler
Grange

TG Report No. 11319_R07c_JD_CW

| Report No: | Date | Revision | Author | Checked |
|-------------------|------------------------------------|-----------------|--------------------------------------|----------------------|
| 11319_R07c | 30 th September 2021 | C | Joseph Dance BSc (Hons) MCIEEM | Amy Sherwin MBiol |

Disclosure:

This report, all plans, illustrations, and other associated material remains the property of Tyler Grange Group Ltd until paid for in full. Copyright and intellectual property rights remain with Tyler Grange Group Ltd.

The contents of this report are valid at the time of writing. Tyler Grange shall not be liable for any use of this report other than for the purposes for which it was produced. Owing to the dynamic nature of ecological, landscape, and arboricultural resources, if more than twelve months have elapsed since the date of this report, further advice must be taken before you rely on the contents of this report. Notwithstanding any provision of the Tyler Grange Group Ltd Terms & Conditions, Tyler Grange Group Ltd shall not be liable for any losses (howsoever incurred) arising as a result of reliance by the client or any third party on this report more than 12 months after the date of this report.



Contents:

| | |
|--|---|
| Section 1: Introduction | 1 |
| Section 2: Provision of Bird Nesting Boxes | 2 |
| Section 3: Provision of Bat Roosting Opportunities | 4 |
| Reference | |

Appendices:

| | |
|--|--|
| Appendix 1: Planning Layout (459-PL05 rev 10) | |
| Appendix 2: Details of Artificial Bird and Bat Boxes | |

Plans:

| | |
|---|--|
| Location and specifications of Bat and Bird Boxes to be Installed | |
| 11319/P08a April 2021 JD | |



Section 1: Introduction

- 1.1. Tyler Grange Group Ltd. (TG) were previously commissioned in October 2018 to provide details on the location and siting of new artificial bird nest boxes and bat roost boxes for Phases 2 and 3 of a proposed residential development at land to the immediate north of the settlement of Longridge (hereafter referred to as the 'site'). The site is centred on Ordnance Survey (OS) grid reference SD 60476 37946 and extends to a total area of 10.56 hectares. The previous strategy can be seen in report reference *11319_R07a_Bird_Bat_Box_Locations_JD_HM_191018*.
- 1.2. An Ecological Assessment of the site was originally prepared by TG in March 2015 to accompany the outline planning application (Reference 3/2014/0764) for up to 363 dwellings including affordable housing and housing for the elderly, relocation of Longridge Cricket Club to provide a new cricket ground, pavilion, car park and associated facilities, new primary school, vehicular and pedestrian access, landscaping and public open space, with all matters reserved except for access.
- 1.3. Due to minor amendments to the development layout since the 2018 submission, Tyler Grange Group Ltd. were subsequently instructed to revisit the bird and bat box strategy in accordance with the amended layout.
- 1.4. This document provides details on the provision and siting of the artificial bird nest boxes and bat roosting boxes within the Phases 2 and 3 development (see **Appendix 1** for amended proposals).



Section 2: Provision of Bird Nesting Boxes

- 2.1 A total of eight artificial bird nest boxes will be installed within the external walls of residential dwellings within plots 142, 137, 138, 105, 90, 63, 60 and 55. The boxes can be set within the brickwork / external wall cavity itself and will comprise:
- x2 Schwegler 1SP house sparrow *Passer domesticus* terraces;
 - x2 Schwegler brick bird nest boxes Type 24 (suitable for small birds such as great tit *Parus major*, blue tit *Cyanistes caeruleus* and coal tit *Periparus ater*); and
 - x4 Schwegler brick bird nest boxes Type 25 (suitable for common swift *Apus apus*).
- 2.2 All three types of box will offer permanent nesting opportunities to a range of bird species which have been recorded on site and in the local area such as house sparrow, a UK priority species and listed within the urban species group of the Lancashire Local Biodiversity Action Plan (LBAP).
- 2.3 The boxes will be located on aspects facing between north-northeast (avoiding strongest sunlight and wettest wind) with a clear flight path to the entrance (see **Plan 11319/P08a**) for locations of the bird boxes). The locations will minimise the risk of excessive direct sun, wind and rain whilst offering cover, shelter and foraging opportunities from the nearby retained tree lines, hedgerows and newly created habitat.
- 2.4 All boxes should be sited at a minimum of 2m to 4m from ground level, with the house sparrow terraces (SP1) and swift nest bricks (Schwegler T25) being sited under the eaves. As common swifts nest in loose colonies these boxes have been located in pairs. House sparrows are also colonial nesters, so the boxes have been positioned on adjacent residences
- 2.5 The box dimensions of the Schwegler bird bricks correspond to those of standard, commercially available bricks used in modern European construction. These dimensions allow for a 1cm layer of mortar enabling the nesting blocks to be inserted in any wall without the need to cut adjoining bricks. The box can be installed flush with the outside wall and can be rendered or covered so that only the entrance hole is visible.
- 2.6 If possible, boxes should be cleaned out annually, which should be undertaken between October and February to avoid disturbance to nesting birds.
- 2.7 Refer to plan **11319/P08b** for locations of the bird boxes on the buildings. **Table 2.1** details the location of where the boxes are to be sited. Illustrations of the boxes are provided in **Appendix 2**.



Table 2.1: Details of the location and aspect of the bird boxes to be installed (See plan 11319/P08)

| Plot Number | Building Type | Bird Box Type (& number) | Location and Aspect of Bird Box |
|--|---------------|--------------------------|--|
| 138 | KNS | 1SP (x1) | Single terrace box on building rear, facing northeast |
| 137 | KNS | 1SP (x1) | Single terrace box on side of building, facing northeast |
| 142 | ALD | T24 (x1) | Single box on side elevation, facing northeast |
| 55 | MOR | T24 (x1) | Single box on side elevation, facing northeast |
| 63 | DNF | T25 (x1) | Single box on side elevation, facing north |
| 60 | BRN | T25 (x1) | Single box on side elevation, facing north |
| 105 | MOR | T25 (x1) | Single box on side elevation, facing northeast |
| 90 | ALD | T25 (x1) | Single box on side elevation, facing north |
| <p><i>Abbreviations</i> 1SP - Schwegler 1SP house sparrow terrace T24 - Schwegler brick bird nest box Type 24 T25 - Schwegler brick bird nest box Type 25</p> | | | |



Section 3: Provision of Bat Roosting Opportunities

- 3.1 A total of six artificial bat roosting boxes will be installed within the external walls of residential dwellings within plots 3, 31, 47, 53, 76 and 131.
- 3.2 The box type will be the Schwegler 1FR Bat Tube. This box offers suitable roosting conditions for the range of crevice dwelling bat species recorded on site and within the local area, such as common pipistrelle *Pipistrellus pipistrellus* and soprano pipistrelle *P.pygmaeus*. The 1FR Bat Tubes are designed to be installed on the external walls of the residential buildings, either flush or beneath rendered surfaces, so that they are unobtrusive in appearance whilst providing a permanent roost space. These boxes do not require any cleaning or maintenance as droppings fall out of the entrance ramp.
- 3.3 The bat boxes are to be installed as high as possible (at least 4m high), positioned near to the eaves at the gable apex. The boxes should have an unobstructed approach and no lighting should be directed towards them.
- 3.4 As temperature is known to be an important factor influencing the success of artificial roost boxes (BCT, 2012) the boxes are to be sited on a south, southeast or southwest aspect of the building to receive maximum amounts of sunlight and warmth.
- 3.5 The siting of the bat boxes also takes into consideration surrounding habitats, with boxes fronting onto, or adjacent to, retained and / or newly created habitat features within the development such as tree lines, hedgerows, wet ditches and areas of grassland and open space. The positioning of the boxes on the building should also take into account the positioning of windows and doors and boxes should be sited to avoid being directly above such features to minimise inconvenience to the building's inhabitants whilst ensuring the boxes are in optimal positions for bats to use with minimal disturbance.
- 3.6 Refer to plan **11319/P08a** for locations of the bat boxes on the buildings. **Table 3.1** details the location of where the boxes are to be sited. Illustrations of the bat box are provided in **Appendix 2**.

Table 3.1: Details of the location and aspect of the bat boxes to be installed (See plan11319/P08a).

| Plot Number | Building Type | Location and Aspect of Bat Tube |
|-------------|---------------|--|
| 03 | WIN | Underneath eaves of rear (south elevation), facing gardens |
| 31 | DEN | Underneath eaves of rear (south elevation), facing gardens |
| 47 | WIN | Underneath eaves of side (southwest) elevation, facing gardens |
| 53 | WIN | Underneath eaves of side (southwest) elevation, facing gardens |
| 76 | ELL | Underneath eaves of side (southeast) elevation, facing gardens |
| 130 | ELL | Underneath eaves of rear (southeast) elevation, facing gardens |



Reference

Bat Conservation Trust (2016). Bat boxes - Bat Conservation Trust. [online] Available at: http://www.bats.org.uk/pages/bat_boxes.html [Accessed 11 Feb. 2016].



Appendix 1: Planning Layout (459-RPZ06)



SCHEDULE OF ACCOMMODATION

| Ref | Barratt Type | House Type | Soft | No | Total Soft | Core / Dct |
|---|--------------|---------------------------------------|---------------|----|---------------|------------|
| AFFORDABLE TYPES | | | | | | |
| STANDARD | | | | | | |
| DMF | Denford | 2 Bedroom affordable mews | 624 | 22 | 13728 | NA |
| BRN | Brandon | 3 Bedroom affordable mews | 706 | 23 | 16238 | NA |
| ELDERLY | | | | | | |
| BED | Bedale | 2 Bed LTH Bungalow | 594 | 7 | 4158 | NA |
| BEL | Belmont | 2 Bed LTH House | 731 | 7 | 5117 | NA |
| AFFORDABLE TOTAL | | | 59 | | 39241 | |
| PRIVATE SALE TYPES | | | | | | |
| ELDERLY | | | | | | |
| BED | Bedale | 2 Bed LTH Bungalow | 594 | 1 | 594 | NA |
| BEL | Belmont | 2 Bed LTH House | 731 | 8 | 5848 | NA |
| Dev | Devon | 2 Bed LTH Bungalow | 605 | 7 | 4235 | NA |
| STANDARD | | | | | | |
| ELL | Ellerton | 3 Bed semi-detached house | 830 | 33 | 27390 | Core |
| MOR | Moresby | 3 Bed dual aspect semi-detached house | 854 | 26 | 22204 | Core |
| KNS | Kingsley | 3 bed townhouse | 1072 | 23 | 24656 | Core |
| LUT | Lutterworth | 3 bed detached house | 1001 | 5 | 5005 | Dct |
| ALD | Alferney | 4 bed dual aspect detached house | 1225 | 11 | 13475 | Core |
| DEN | Denby | 3 bed detached house | 880 | 7 | 6160 | Core |
| WIN | Windermere | 4 bed detached house | 1073 | 20 | 21460 | Core |
| THO | Thornton | 4 bed detached house | 1202 | 1 | 1202 | Dct |
| PRIVATE SALE TOTAL | | | 142 | | 132223 | |
| Total number of units and square footage | | | 201 | | 171470 | |
| Gross Site Area in Acres | | | 26.11 | | | |
| Total Undevelopable area in acres | | | 14.15 | | | |
| Net Site Area in Acres | | | 11.96 | | | |
| Density (units per acre) | | | 17 | | | |
| Density (units per hectare) | | | 42 | | | |
| Square foot / Acre | | | 14,337 | | | |

DRAWING KEY

- (AF) AFFORDABLE DWELLINGS
- (EL) DWELLING FOR THE ELDERLY
- ⊕ PROPOSED TRIM TRAIL ITEM
- TREE/ HEDGE TO BE REMOVED
- TREE/ HEDGE TO BE RETAINED
- ▨ BLOCK PAVORS (RED)
- PROPOSED INDICATIVE TREE PLANTING
- 1800mm TIMBER GATE

Refer to engineers highway surfacing drawing for details of surfacing to adoptable areas

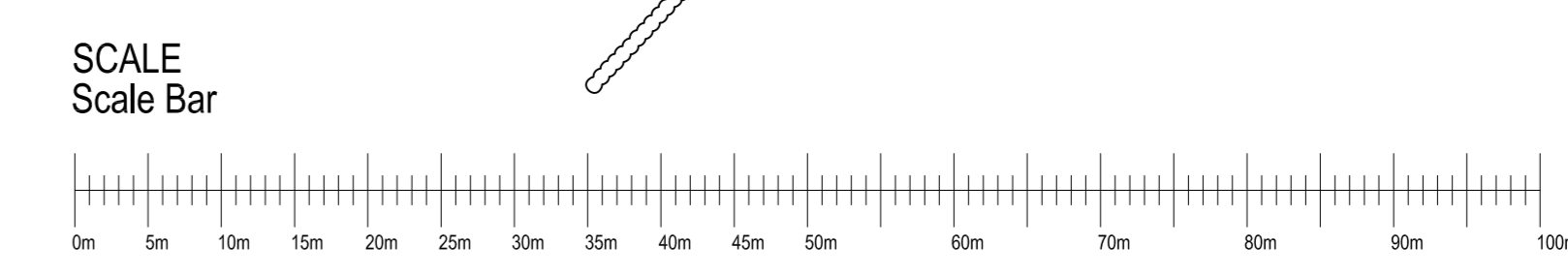
| Rev | Description | Date | Drawn | Checked |
|-----|--|----------|-------|---------|
| 10 | Revised Plans 1-16, 17-117, 118-126 & 127-130, gained 9 additional units and changed numbering according to per engineering request. | 09-03-20 | JP/GB | |
| 09 | Final subbed Molecules to Ellerton, Moresby to Denby and Denby to Denby | 25-08-20 | GB | |
| 08 | Service strips amended to accommodate light columns | 05-12-19 | AA | |
| 07 | Amended to engineers comments, highway surfacing removed | 17-06-19 | AA | |
| 06 | Plans 37-40, 70-72, & 83 changed from Denby to Bedale 1800, annotation head name. Annotation changed on plots 105-109 from Bedale/Denby. Added handrails & amended drainage back door and gully positions as per working drawings. Schedule of access updated. | 07-05-19 | GB | |
| 05 | Amended to engineers comments | 04-03-19 | AA | |
| 04 | Amended to internal comments | 12-02-19 | AA | |
| 03 | Amended to consultant / LA comments | 21-01-19 | AA | |
| 02 | Final adjust to emergency link shown as removed | 15-10-18 | AA | |
| 01 | Schedule amended | 12-10-18 | AA | |

BARRATT HOMES MANCHESTER
 Barratt Homes Manchester
 (A division of BDW Trading Ltd)
 4 Bradley Road
 City Park
 Manchester
 M16 9HQ
 Tel: 0161 872 9161
 Fax: 0161 855 2828

100 CHIPPING LANE LONGBRIDGE

Title: PHASE 2 / 3 PLANNING LAYOUT PARTIAL RE-SKETCH

| Design By | Date | Drawing Number | Rev |
|-----------|----------|----------------|-----|
| AA | 20-10-18 | 459-PL05 | 10 |
| AA | 1-10-18 | | |



Appendix 2: Details of Artificial Bird and Bat Boxes



Appendix 2: Details of Artificial Bird and Bat Boxes

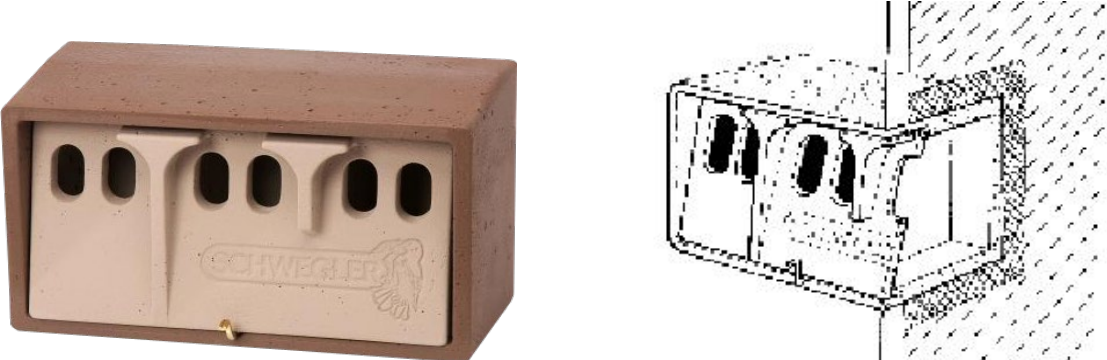
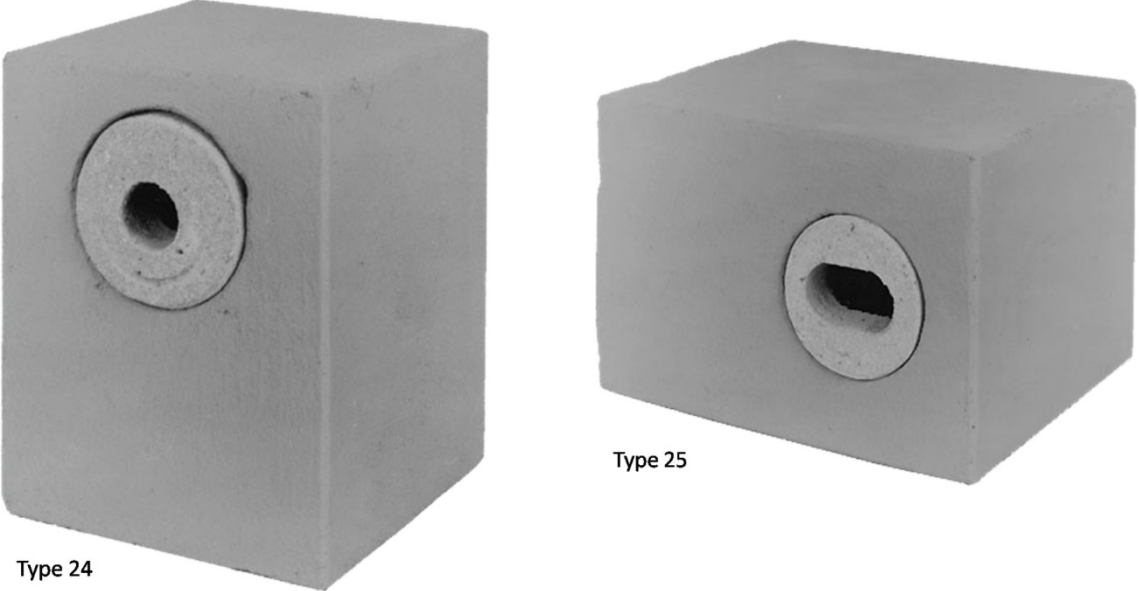


Figure A1.1: 1SP Schwegler House Sparrow Terrace (image from www.NHBS.com)



Type 24

Type 25

Figure A1.2: Schwegler Brick Nest Boxes (image from www.NHBS.com)



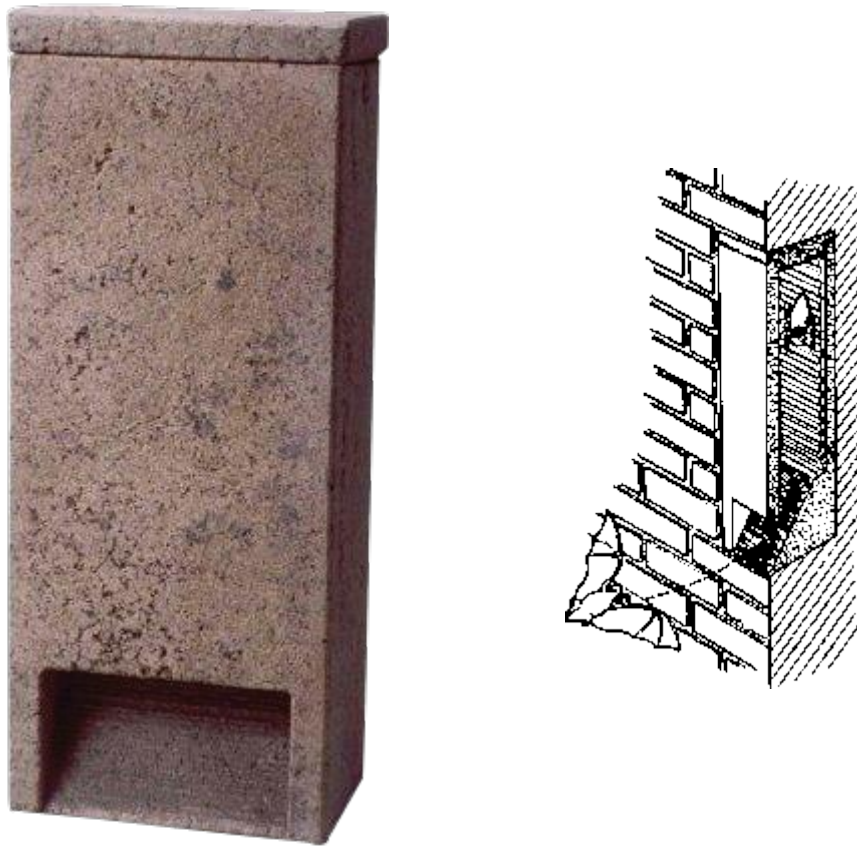


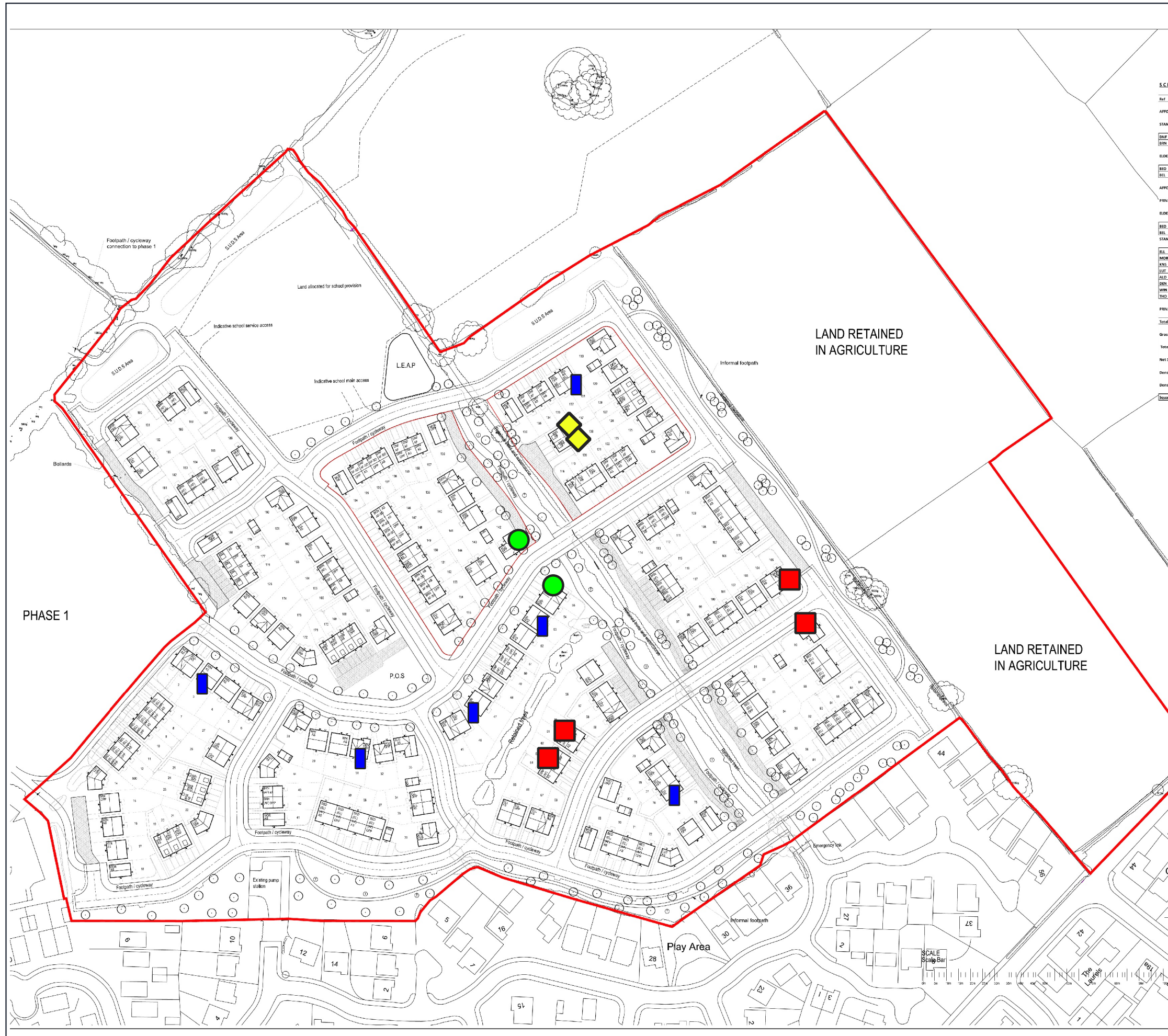
Figure A1.3: Schwegler 1FR Bat Tube (image from www.NHBS.com)



Plan:

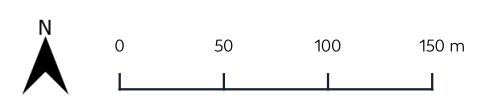
Location and specifications of Bat and Bird Boxes to be Installed
11319/P08b September 2021





- Schwegler TP24 Nest Brick
- Schwegler TP25 Nest Brick
- ▭ Schwegler 1FR Bat Tube
- ◆ Schwegler Sp1 House Sparrow Terrace

| |
|---------|
| SCHU |
| Ref |
| APPRO |
| STAND |
| DRP |
| EM |
| ELDER |
| EBD |
| EBL |
| APPRO |
| PRIVAT |
| ELDER |
| EBD |
| EBL |
| STAND |
| ALL |
| MDR |
| PN |
| LIT |
| ALD |
| DN |
| WTR |
| IND |
| PRIVAT |
| Total m |
| Gross S |
| Total U |
| Net Sth |
| Density |
| Density |
| Square |



Project Land East of Chipping Lane, Longridge

Drawing Title Location and specifications of Bird and Bat Boxes to be installed

Scale As Shown (Approximate)

Drawing No. 11319_P08c

Date September 2021

Checked JD/AS



3 Jordan Street, Deansgate, Manchester, M15 4PY
 T: 0161 256 8367 E: info@tylergrange.co.uk W: www.tylergrange.co.uk



Step into our world

www.tylergrange.co.uk



**Tyler
Grange**

Landscape | Ecology | **Arboriculture**