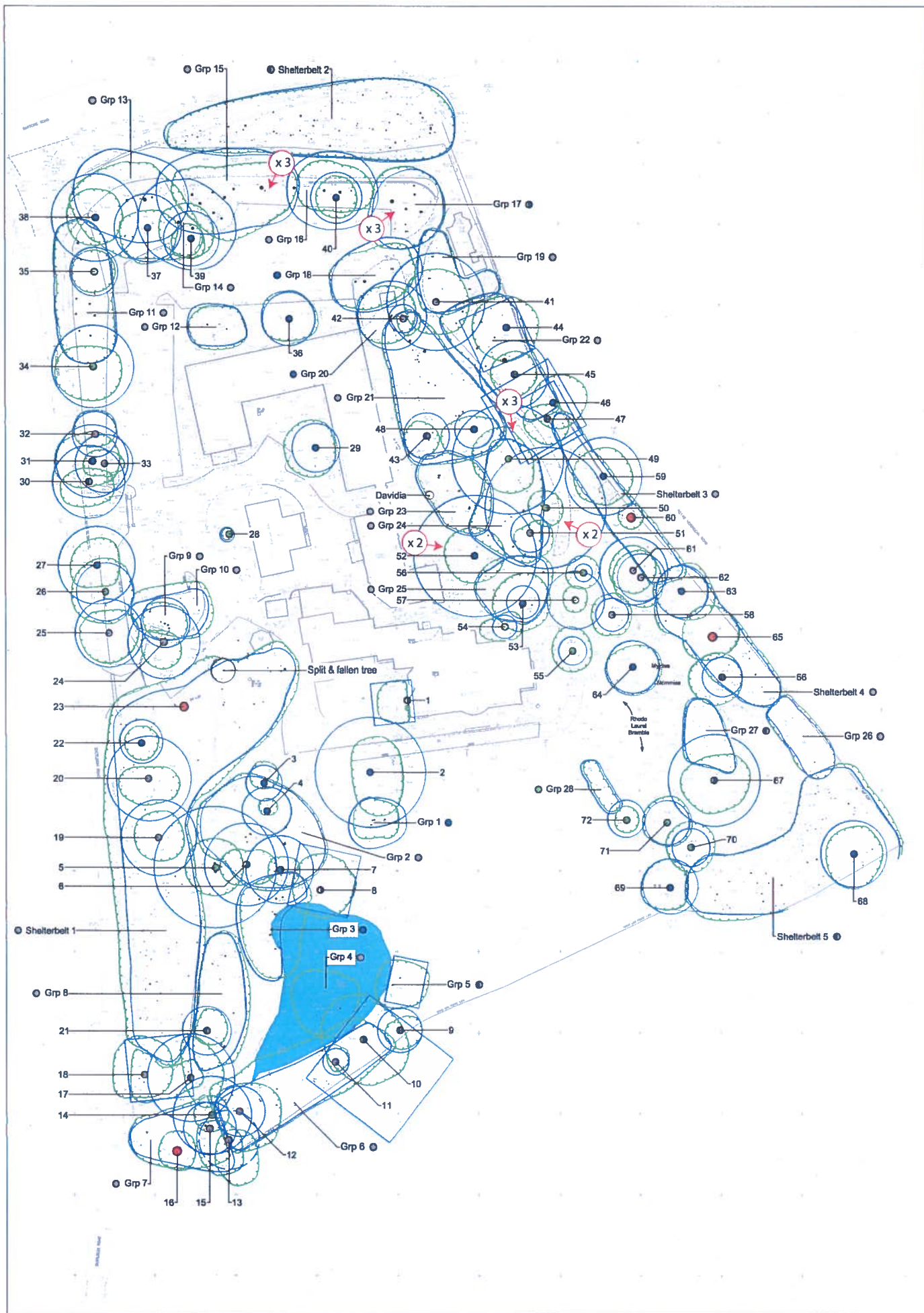


Map 1 Site Location Plan

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Map 2 Bat Roost Survey Surveyor Locations



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

ECOLOGICAL IMPACT ASSESSMENT

Map 2 - Bat Roost Survey Surveyor Locations

Client: JH Manson & Associates

Date: November 2018 Status: Draft

KEY

 Surveyor Location and Number of Surveys

Basemap: Bernie Harverson (2015) Southleigh Park House, East Leigh Road, Havant, -Tree Survey and Constraints Plan. Drawing No. BJH 01/02 1:400 @ A3

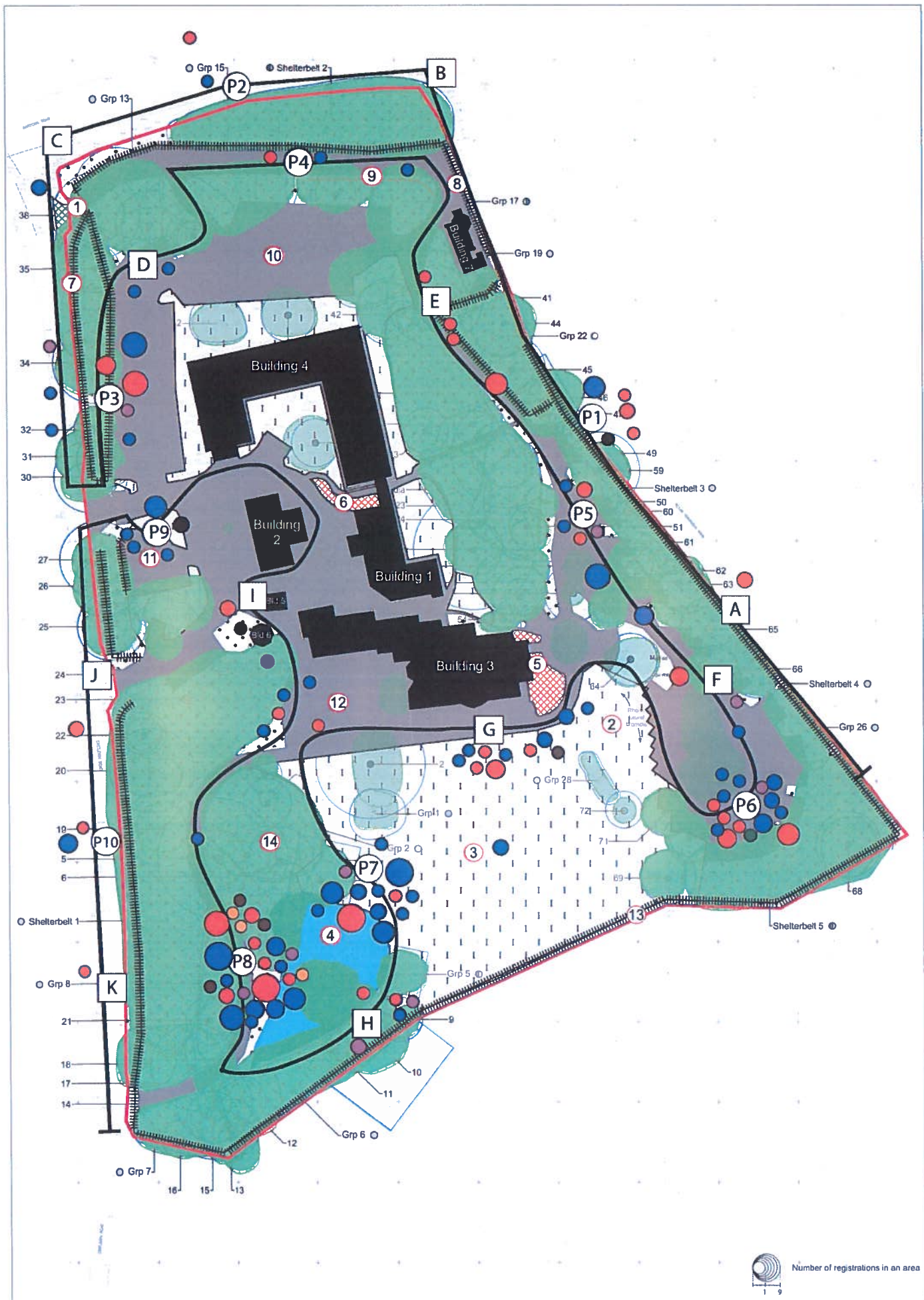


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Map 3 Bat Transect Survey Results



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Map 3 - Bat Transect Survey Results

Client: Jill Manson & Associates

Date: November 2016 Status: Draft

KEY

■ Common pipistrelle	■ Noctule	■ Brown long-eared bat
■ Soprano pipistrelle	■ Serotine	■ Nathusius' pipistrelle
■ Pipistrelle species	■ Myotis species	■ Barbastelle

Basemap: Bernie Harverson (2015) Southleigh Park House, East Leigh Road, Havant. Tree Survey and Constraints Plan. Drawing No: BJH 01/02, 1:400 @ A3



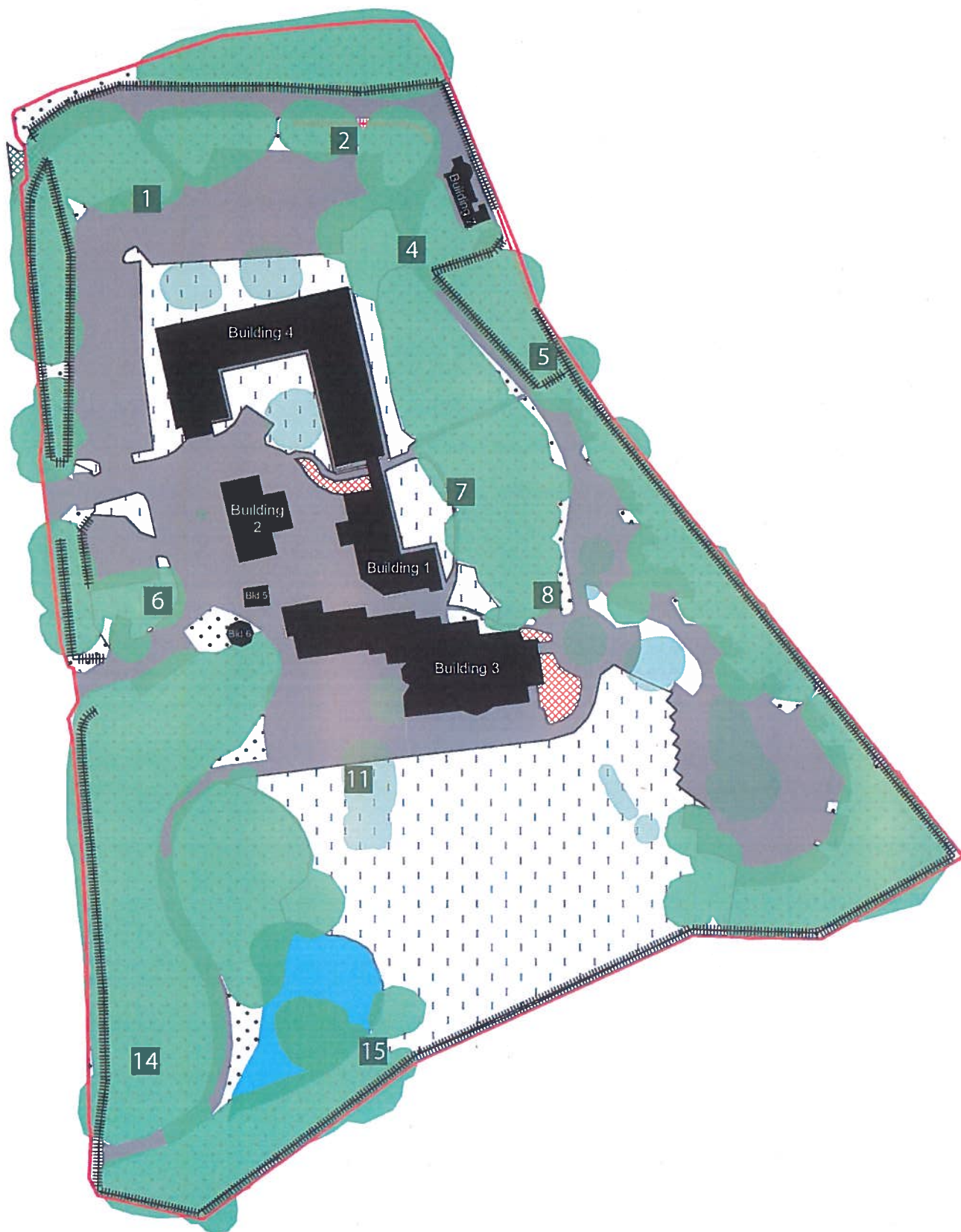
Number of registrations in an area

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Map 4 Automated Detector Survey Results



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

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Map 4 - Automated Detector Survey Results

Client: Jil Manson & Associates

Date: November 2016 Status: Draft

KEY

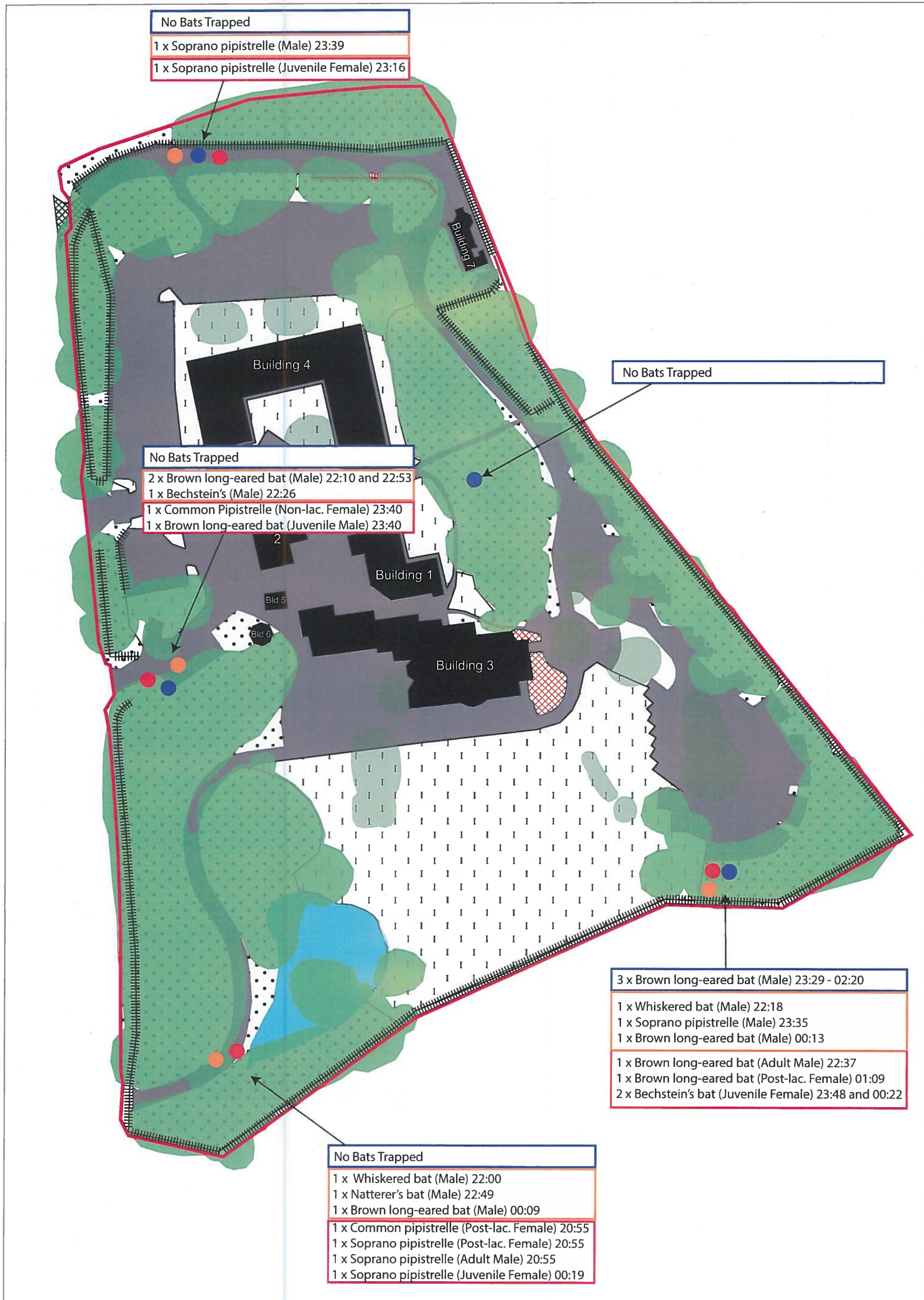
1 Automated Detector Location

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Map 5 Bat Trapping Survey Results



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

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Map 5 - Bat Trapping Survey Results

Client: Jill Manson & Associates

Date: November 2016 Status: Final

KEY

- June Trapping Results
- July Trapping Results
- August Trapping Results

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Map 6 Great Crested Newt eDNA Survey Results



SOUTHLEIGH PARK HOUSE, EASTLEIGH ROAD, HAVANT, HAMPSHIRE

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Map 6 - Great Crested Newt eDNA
Survey Results

Client:	Snell & Wilcock Ltd Pension Plan
Date:	November 2016
Status:	Final

KEY

Site Boundary

GCN 500m Buffer

Ponds Surveyed

- 1, Pond Surveyed, GCN Absent
- 2, Pond Not Surveyed: Access Denied
- 3, Pond Surveyed, GCN Absent
- 4, Pond Surveyed, GCN Absent
- 5, Pond Surveyed, GCN Absent

Scale at A4: 1:7,500



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Map 7 Summary of Historic Survey Data in Relation to Havant Thicket 2009

SOUTHLEIGH PARK HOUSE, EASTLEIGH ROAD, HAVANT, HAMPSHIRE

ECOLOGICAL ASSESSMENT

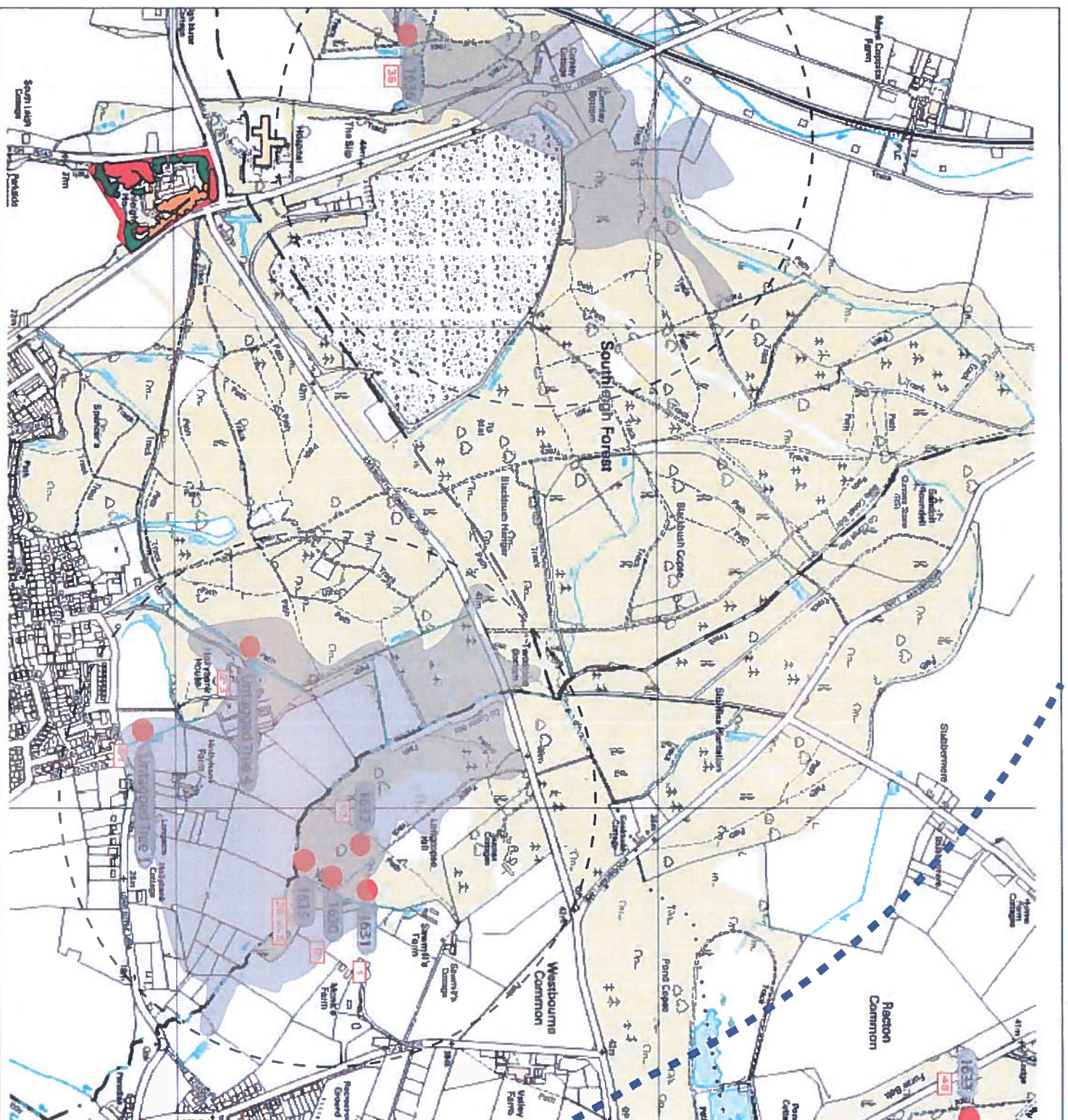
Map 7 - Locations of Bechstein's Bat Roosts in Southleigh Forest, Hollybank and Barton's Copse

Client: Jill Manson & Associates

Date: December 2016 Status: Draft

KEY

-  Site Boundary
-  2km Radius from Site Boundary
-  Foraging Range of Radiotracked Bechstein's bats
-  1km Radius around Foraging Range
-  Location of Bechstein's Roost
-  Tree Tag Number
-  Peak Number of Bats Recorded During Emergence Surveys



Basemap provided with permission of Portsmouth Water Ltd.
 ECOSA (2013) Havant Trickett Winter Storage Reservoir - Ecology Report
 Chapter 7 - Bat Surveys Summer 2009
 Map P3 388 Locations of Bechstein's Roosts identified within Southleigh Forest/Hollybank Wood
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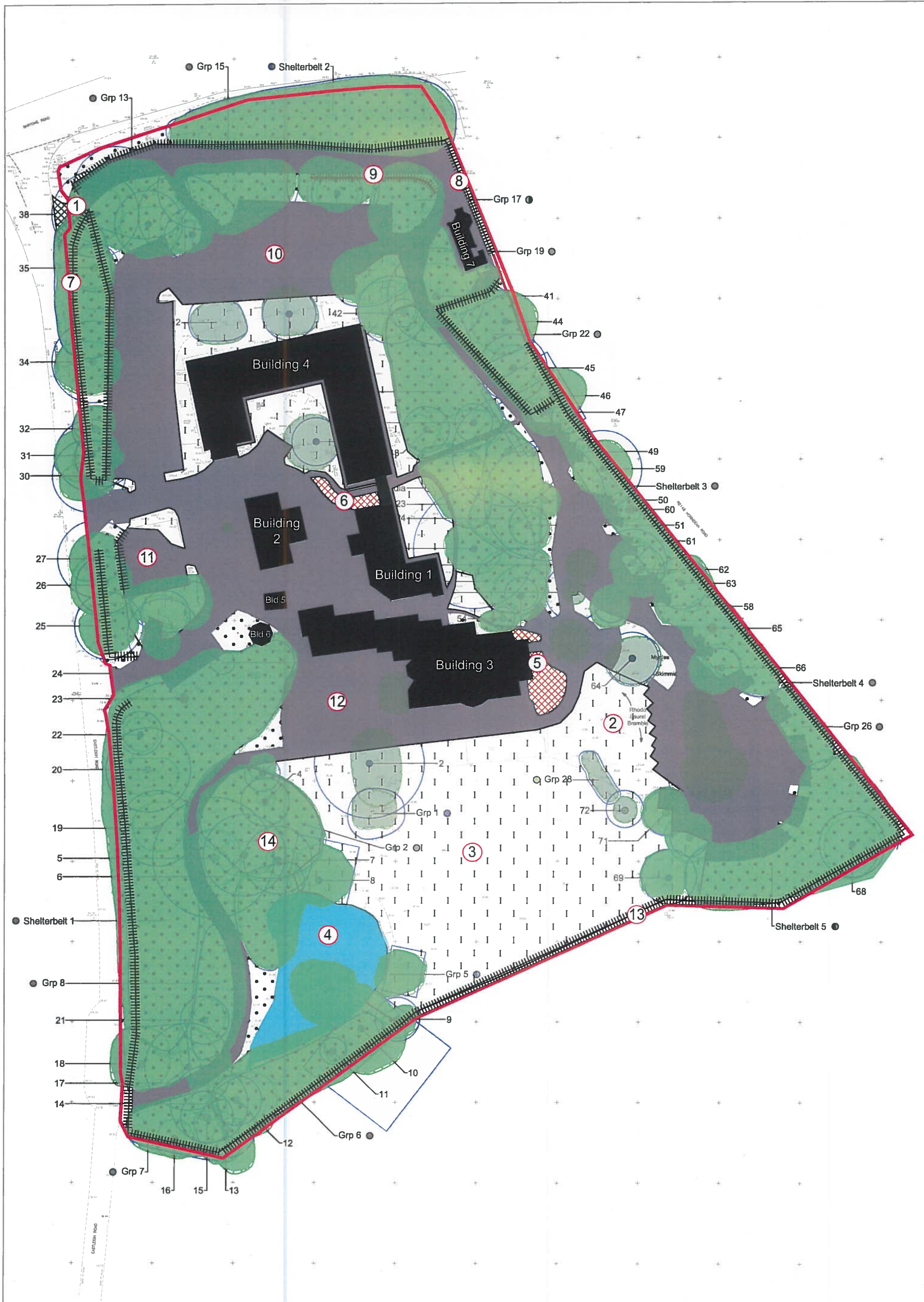
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Map 8 Phase 1 Habitat Map



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

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Map 8 - Phase 1 Habitat Map

Client: Jill Manson & Associates

Date: November 2016 Status: Draft

KEY

	Site Boundary		Standing Water		Wall
	Scattered Trees		Introduced Shrub		Fence
	Scattered Scrub		Hardstanding		Target Note Features of Interest, As Referenced in Report
	Improved Grassland		Buildings		

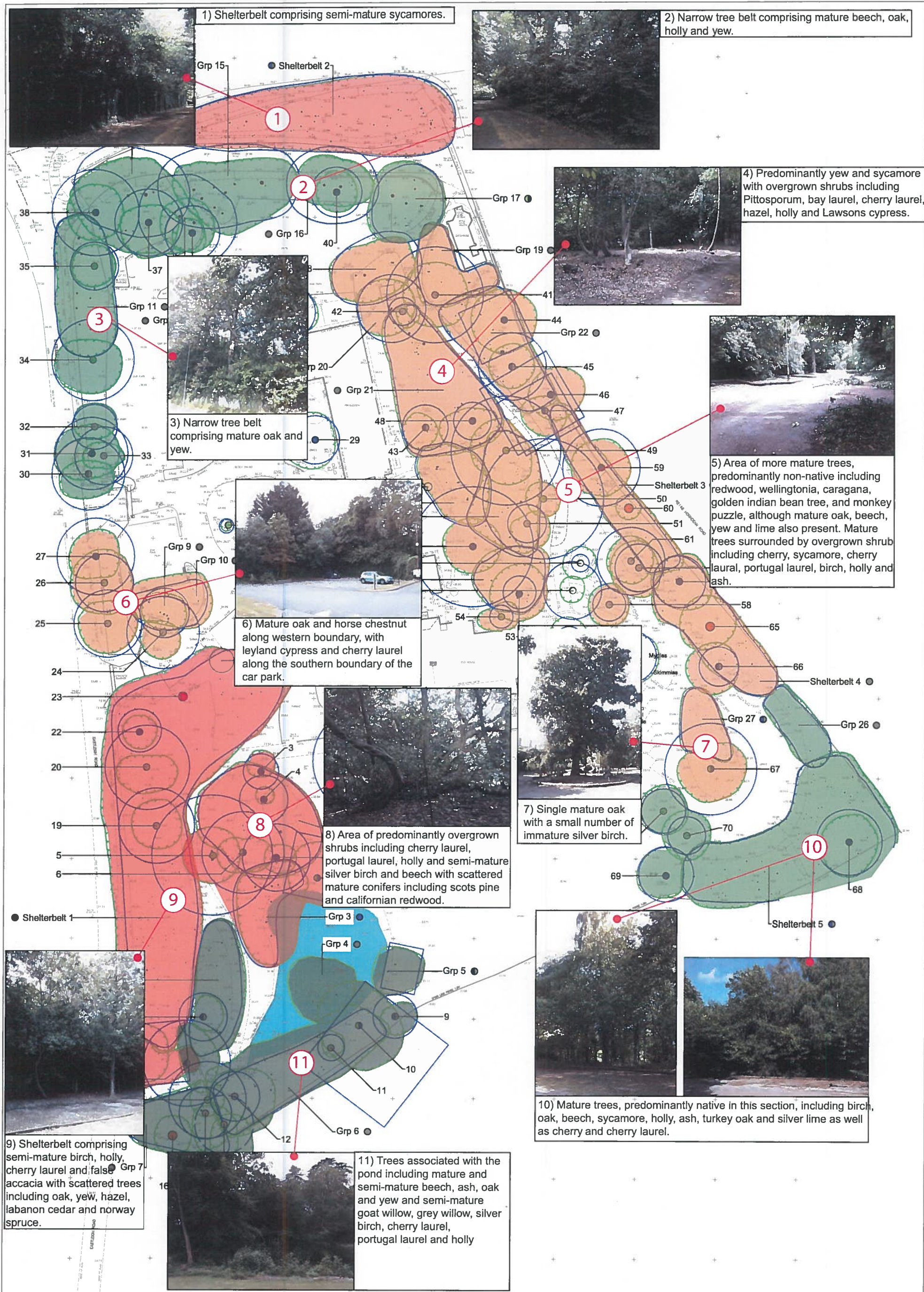
Basemap: Bernie Harverson (2015) Southleigh Park House, East Leigh Road, Havant, -Tree Survey and Constraints Plan. Drawing No: BJH 01/02. 1:400 @ A3

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Map 9 Relative Quality of On-site Habitat for Bat Foraging and Commuting



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

ECOLOGICAL IMPACT ASSESSMENT

Map 9 - Relative Quality of On-site Habitat for Bat Foraging and Commuting

Client: Jill Manson & Associates

Date: November 2016 Status: Draft

KEY

- High Quality
- Medium Quality
- Low Quality
- Negligible Quality

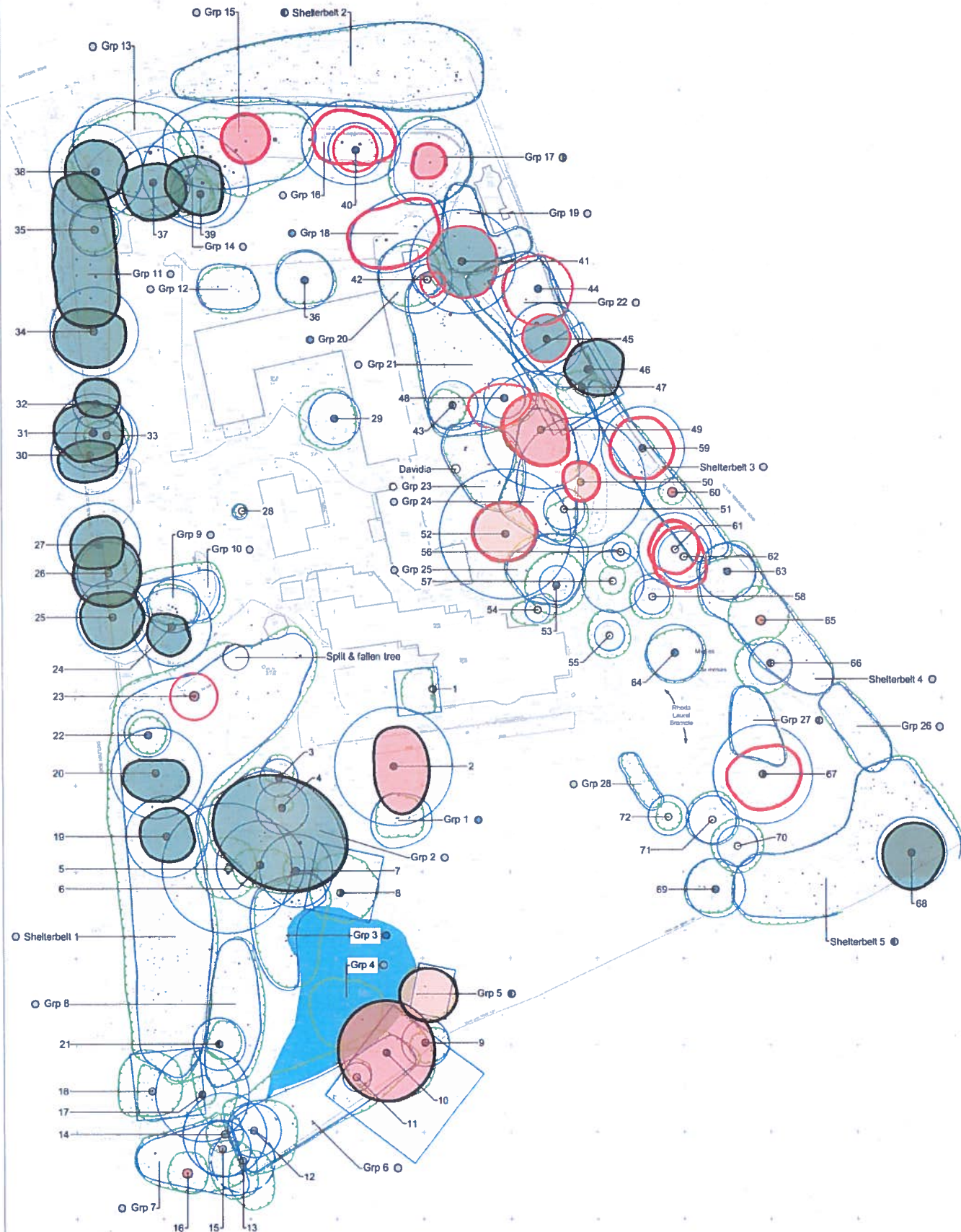
Basemap: Bernie Harverson (2015) Southleigh Park House, East Leigh Road, Havant, -Tree Survey and Constraints Plan. Drawing No: BJH 01/02. 1:400 @ A3

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Map 10 Ground Level Tree Assessment and Tree Climb and Inspect Results



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

ECOLOGICAL IMPACT ASSESSMENT **Map 10 - Ground Level Tree Assessment and Tree Climb & Inspect Results**

Client: JH Manson & Associates

Date: December 2016 Status: Draft

KEY

	High Potential
	Medium Potential
	Low Potential
	Negligible Potential

Tree subject to climb and inspect survey

Basemap: Bernie Harverson (2015) Southleigh Park House, East Leigh Road, Havant - Tree Survey and Constraints Plan, Drawing No. BJH 01/02, 1:400 @ A3



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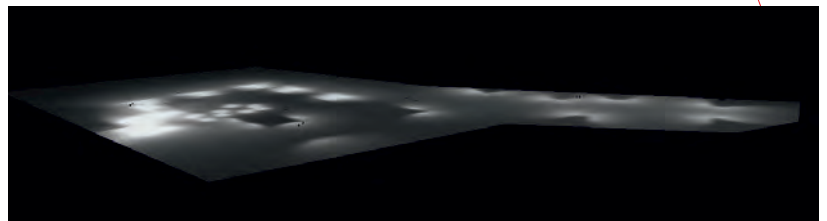
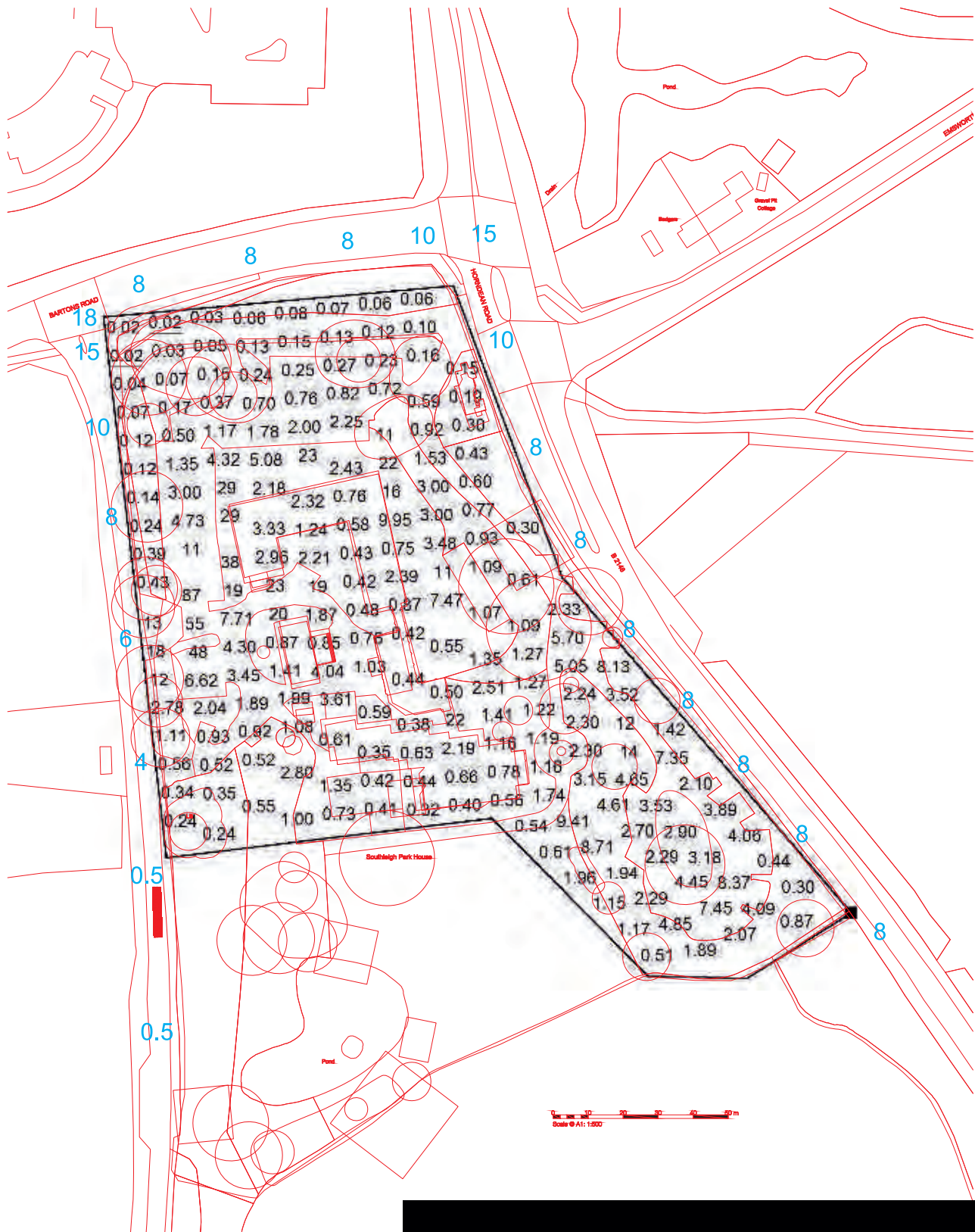
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Map 11 Existing Lighting Impacts

EXISTING

ALL VALUES ARE IN LUX (LUMENS/m²)



TITLE: Southleigh Park House - EXISTING

FILE REF: DM59/EV

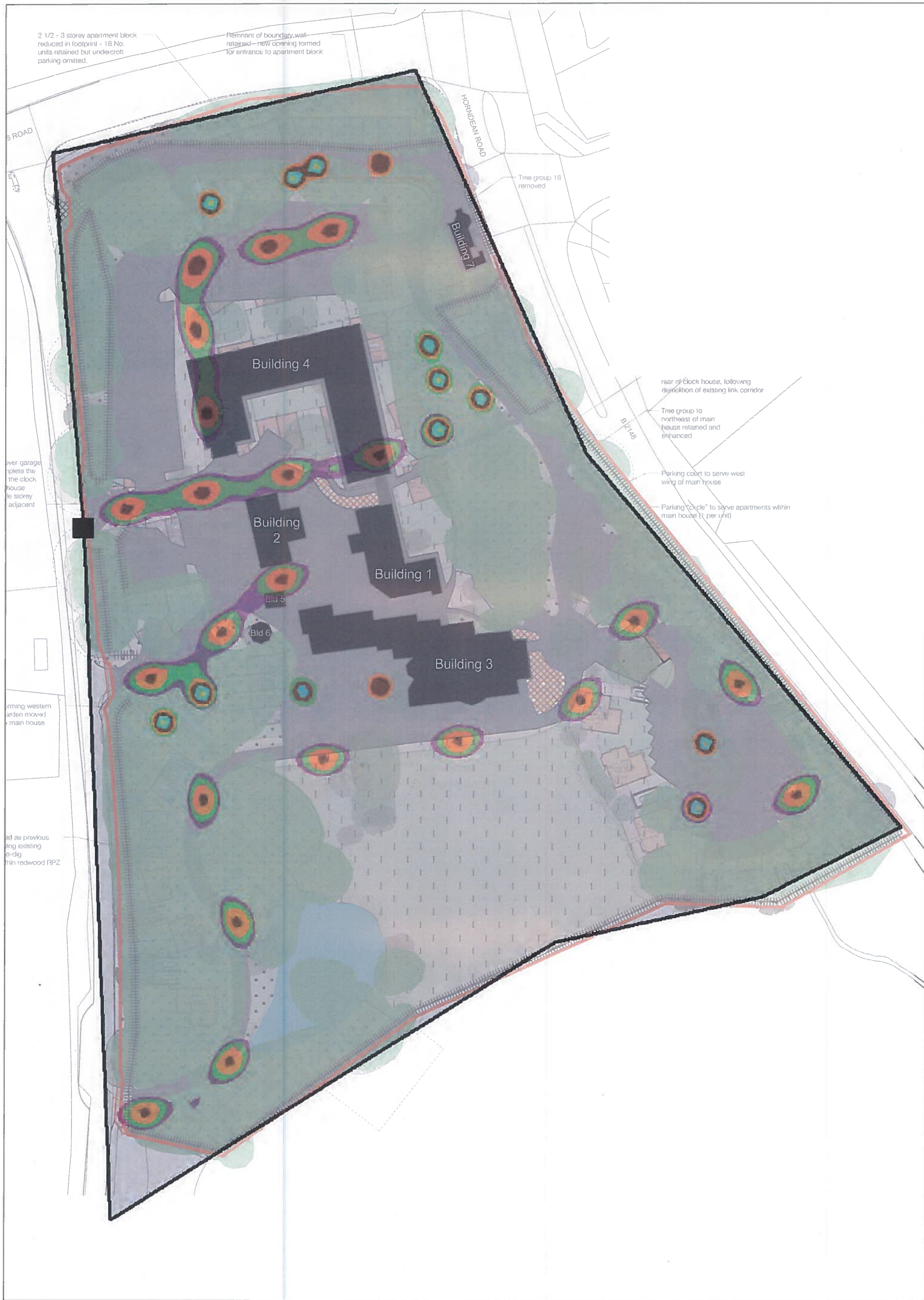
CLIENT: SNELL & WILCOX SAPF

Lighting design and specification - Construction
measurement and management

THE GRAHAM WHITE CONSULTANCY
Ivy Cottage, 4 Rosemary Lane, Farnham, Surrey, GU10 4DB
Telephone/Facsimile: 01252 266559 Mobile: 07778 523667
e-mail: enquiries@gwlc.co.uk www.gwlc.co.uk



Map 12 Post-development Lighting Strategy



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

ECOLOGICAL IMPACT ASSESSMENT

Map 12 - Post-development Lighting Strategy

Client: Jill Manson & Associates

Date: December 2016 Status: Draft

KEY

- < 2 lux
- 2-4 lux
- 4-5 lux
- 5-7 lux
- 7-10 lux
- 10-15 lux

Basemap: Terence O'Rourke (2016) Indicative Masterplan Option 4 - Draft.
Drawing No. 245001/sk056/A. 1:500 @ A1

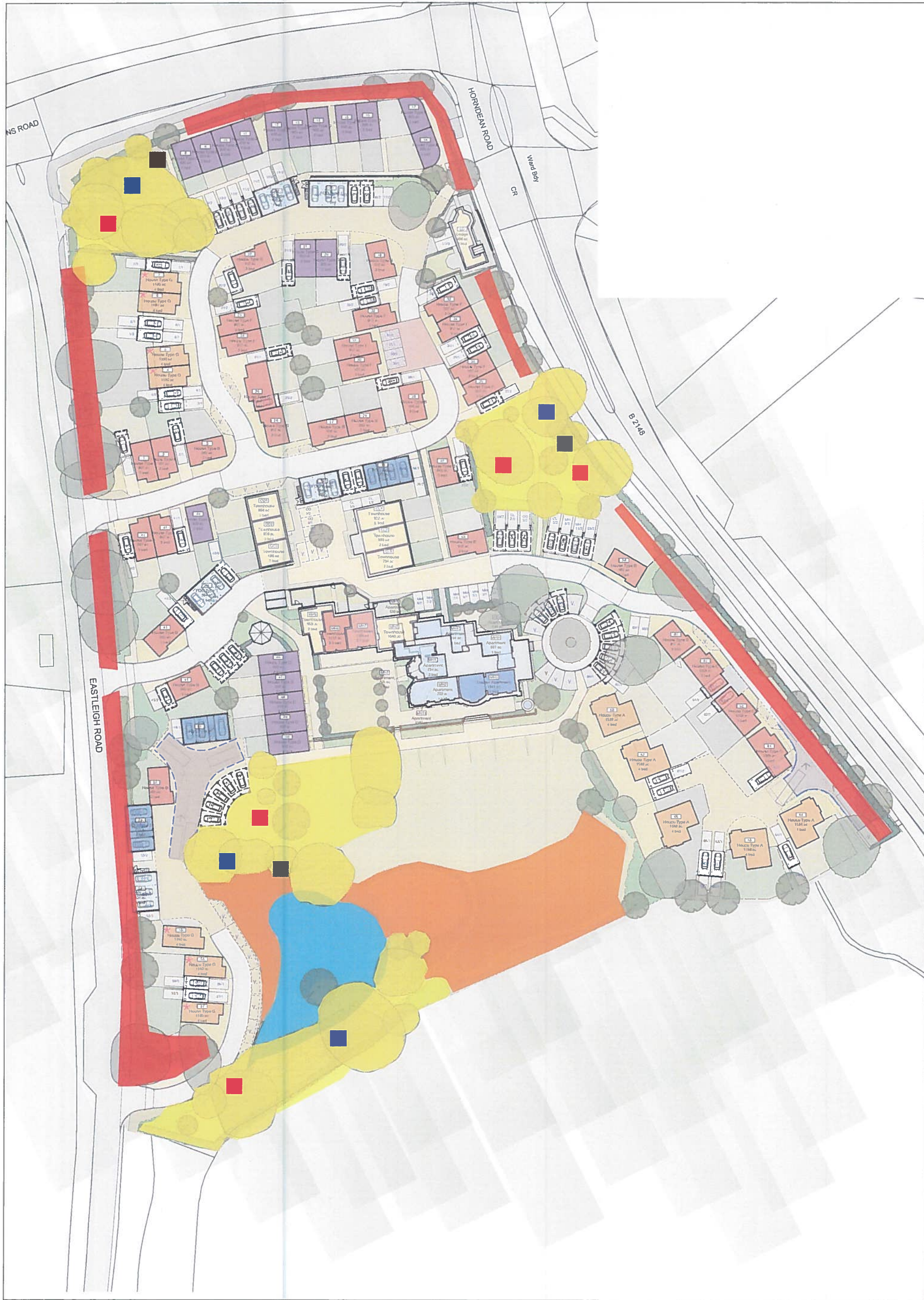


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Map 13 Mitigation Strategy



SOUTHLEIGH PARK HOUSE, PORTSMOUTH

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Map 13 - Mitigation Strategy

Client: Jill Manson & Associates

Date: July 2017

Status: Final

KEY

- Schwegler 1FF or 2FN Bat Box
- Schwegler 2H or 1B Bird Box
- Log piles or pyramids

- Trees Retained and Enhanced
- New Native Tree and Hedgerow Planting
- Grassland Enhanced

Basemap: Terence O'Rourke (2017) Indicative Site Layout (with parking allocation).
Drawing No. 245001/P006/0. 1:500 @ A1



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Appendix 1 Proposed Site Layout

CAR PARKING ANALYSIS

Havant Borough SPD standard - 1 bed / 1 space; 2 bed / 2 spaces; 3 bed 2 spaces; 4+ bed / 3 spaces

Allocated Car Spaces

One bed units with one allocated space = 11 units (100%)
Two bed units with two allocated spaces = 32 units (100%)
Three bed units with two allocated spaces = 35 units (100%)
Four bed units with three allocated spaces = 12 units (100%)

Units with shortfall of allocated car spaces to SPD = Nil

Visitor Car Spaces

Total number car spaces allocated to units = 161 spaces
Total number unallocated visitor spaces (prior to development) = 24 spaces (12%)
Full planning application area (34 allocated spaces to listed building conversions) = 8 spaces (24%)

Southleigh Park House - Masterplan

ACCOMMODATION SCHEDULE SUMMARY

Main House - Residential Conversion

Plot No.	Unit Type	No. of Bedrooms	Count	Gross Internal Floor Area
MH1	Outer Apartment	2 bed	1	134 sq ft
MH2	Apartment	1 bed	1	722 sq ft
MH3	Apartment	1 bed	1	765 sq ft
MH4	Apartment	2 bed	1	844 sq ft
MH5	Apartment	1 bed	1	526 sq ft
MH6	Townhouse	2 bed	1	1290 sq ft
MH7	Townhouse	3.5 bed	1	1163 sq ft
MH8	Townhouse	3.5 bed	1	1192 sq ft
MH9	Townhouse	2 bed	1	1053 sq ft
MH10	Apartment	1 bed	1	307 sq ft
MH11	Apartment	3 bed	1	1188 sq ft
MH12	Apartment	2 bed	1	794 sq ft
MH13	Apartment	1 bed	1	564 sq ft
Totals			12	11770 sq ft

Legend
One bed apartment / flat one garage
Two bed apartment / flat
Two bed townhouse conversion
Two bed house
Three bed house / townhouse
Four bed house
Release & emergency vehicular access

Other Listed Structures (Clock House, Coach House, Lodge) - Residential Conversion

Plot No.	Unit Type	No. of Bedrooms	Count	Gross Internal Floor Area
CL1	Townhouse	2 bed	1	822 sq ft
CL2	Townhouse	2 bed	1	953 sq ft
CL3	Townhouse	2 bed	1	754 sq ft
CO1	Townhouse	2 bed	1	858 sq ft
CO2	Townhouse	3 bed	1	1020 sq ft
CO3	Townhouse	2 bed	1	808 sq ft
LD	Lodge	2 bed	1	1088 sq ft
Totals			7	6081 sq ft

Masterplan - Residential Units

Count	Unit Type	No. of Bedrooms	Unit Gross Floor Area	Subtotal GFA	Subtotal GFA
5	FOG Type 1	1 bed	534 sq ft	2670 sq ft	278 sq ft
3	FOG Type 2	2 bed	712 sq ft	2136 sq ft	198 sq ft
5	House Type A	1 bed	1558 sq ft	7790 sq ft	738 sq ft
14	House Type B	2 bed	932 sq ft	13048 sq ft	1173 sq ft
4	House Type C	2 bed	1008 sq ft	4032 sq ft	375 sq ft
17	House Type D	2 bed	802 sq ft	13634 sq ft	1253 sq ft
2	House Type E	2 bed	802 sq ft	1604 sq ft	142 sq ft
13	House Type F	3 bed	907 sq ft	11791 sq ft	1095 sq ft
7	House Type G	4 bed	1180 sq ft	8260 sq ft	787 sq ft
Totals		70		64387 sq ft	6086 sq ft

SUMMARY

Item	No.	Total Area
Main House Conversion	12 units	11770 sq ft
Other Listed Buildings	7 units	6081 sq ft
Residential Units	70 units	64387 sq ft
TOTALS	89 units	76038 sq ft