

A Appendices

A.1 Appendix A.1 – Scheme Drawings

A.2 Appendix A.2 – Graphical Model Outputs

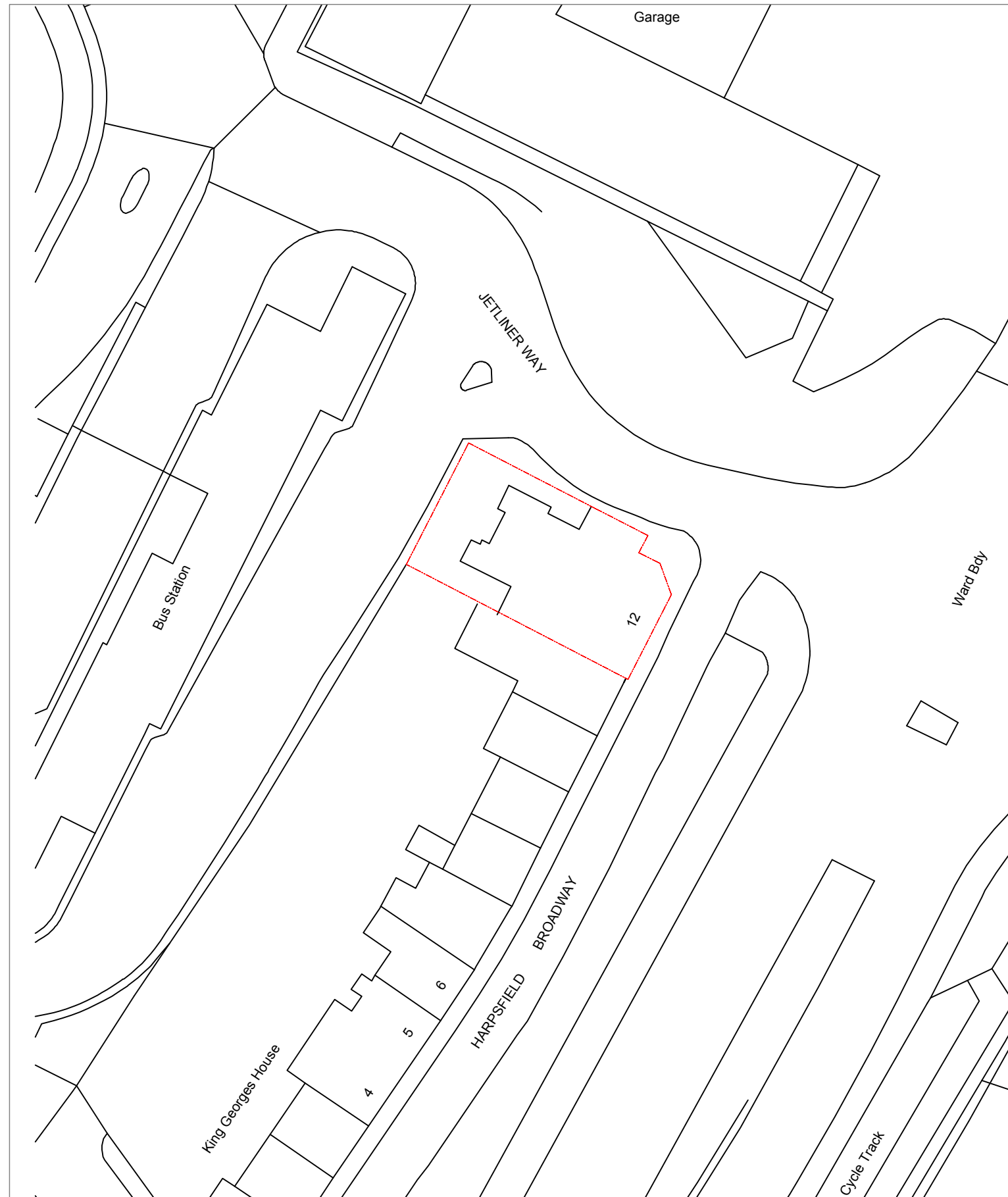
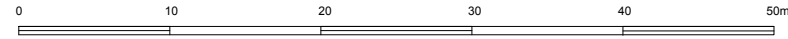
A.3 Appendix A.3 – Average Daylight Factor Calculations

A.4 Appendix A.4 – No Sky Line Calculations

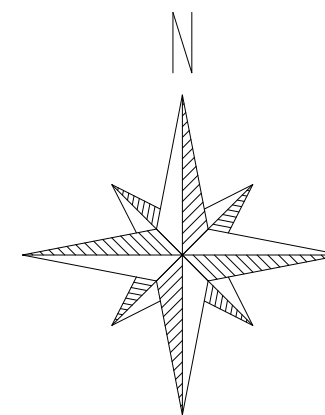
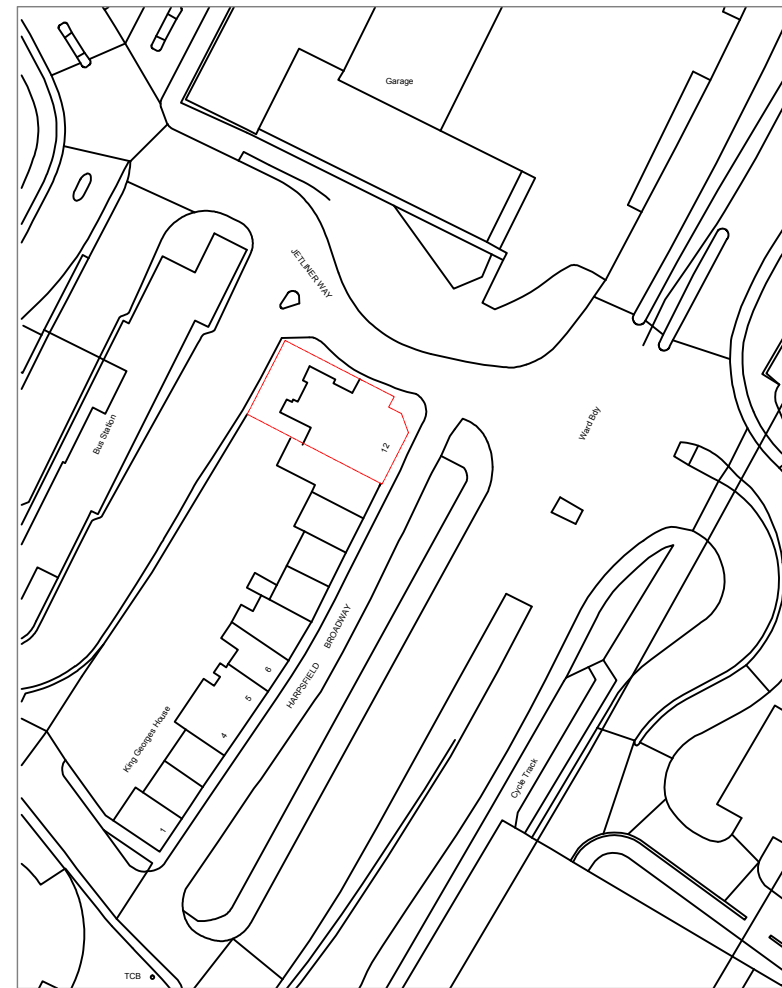
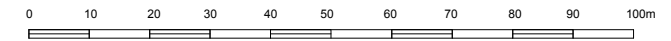
A.5 Appendix A.5 – APSH Calculations

Appendix A.1 – Scheme Drawings


LOCATION PLAN
SCALE 1:1250



BLOCK PLAN-PROPOSED
SCALE 1:500



APPLICATION SITE



ASAI CONSTRUCTION LTD
PROJECT

12 Harpsfield Broadway Hatfield AL10 9TF

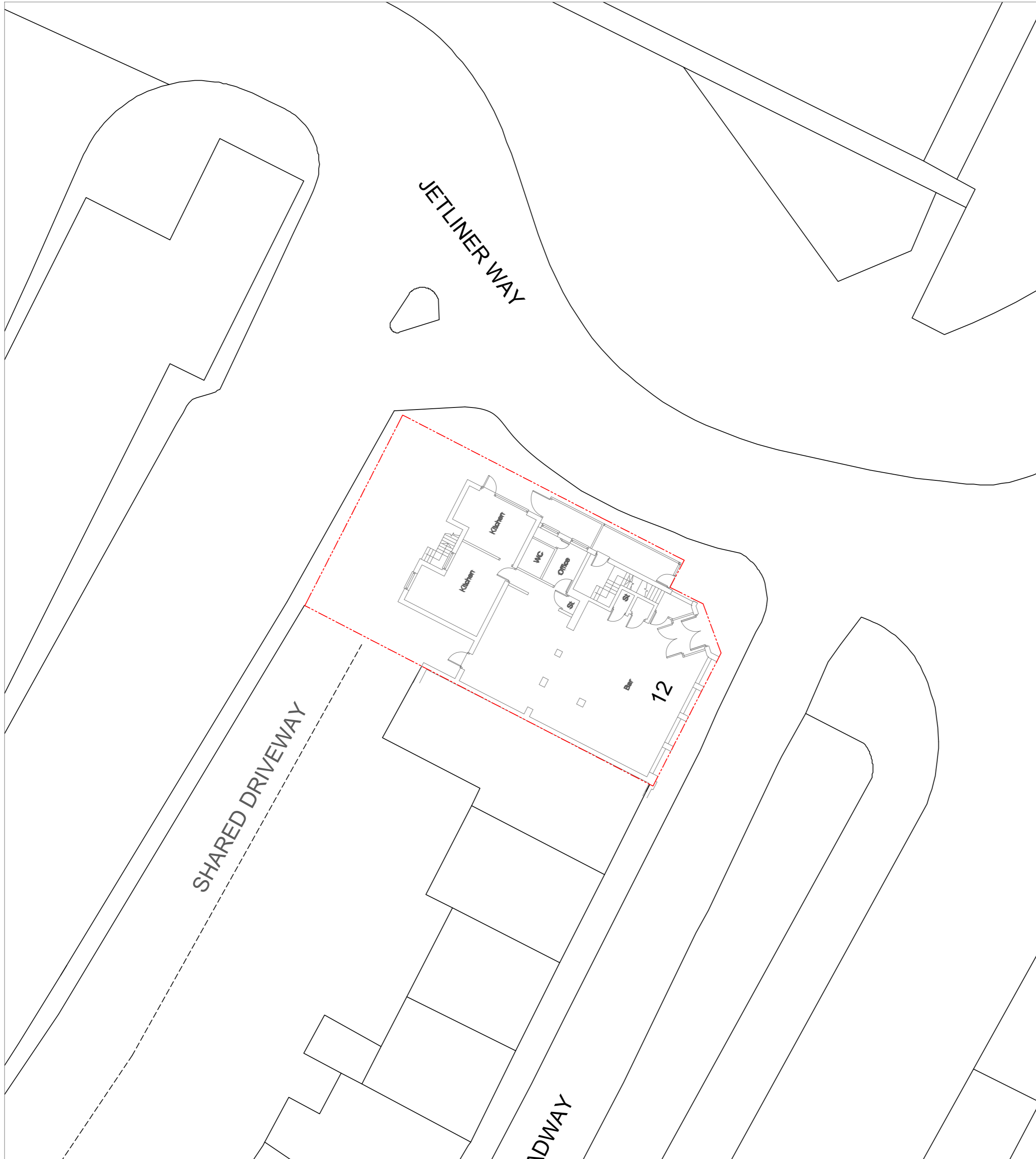
DRAWING
LOCATION / SITE PLAN

DRG. NO.
01-0718-HB

REVISIONS

SCALE 1:500/ 1:1250 @A3
DATE 23.09.18

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0 1 2 3 4 5m SCALE 1:100



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PROJECT

12 Harpsfield Broadway Hatfield
AL10 9TF

DRAWING

EXISTING BLOCK PLAN

DRG. NO.

02-0718-HB-BL-EX

REVISIONS

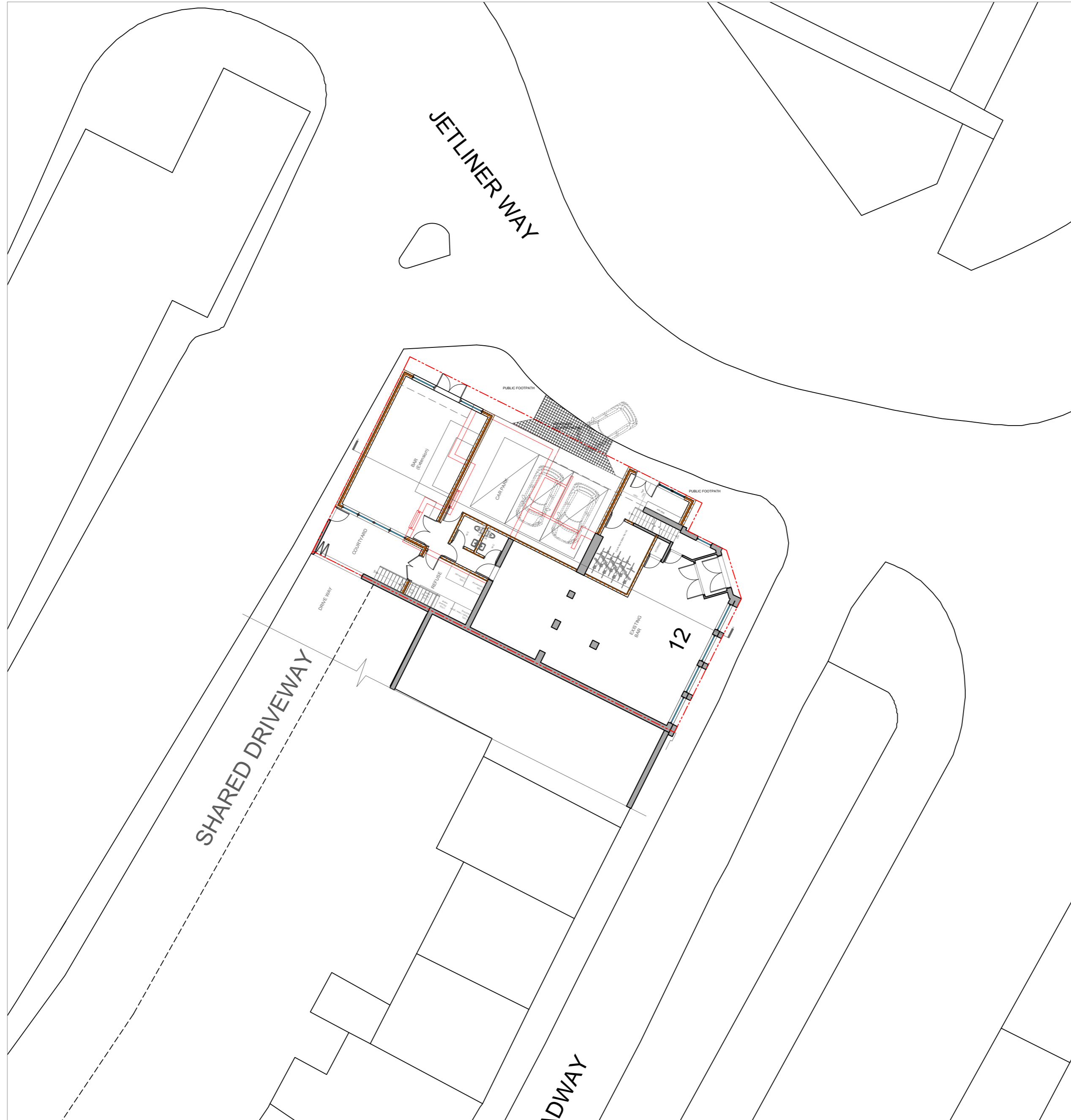
SCALE

1:100 @A2

DATE

25.08.16

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0 1 2 3 4 5 [m] SCALE 1:100



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PROJECT
12 Harpsfield Broadway Hatfield
AL10 9TF

DRAWING
PROPOSED BLOCK PLAN

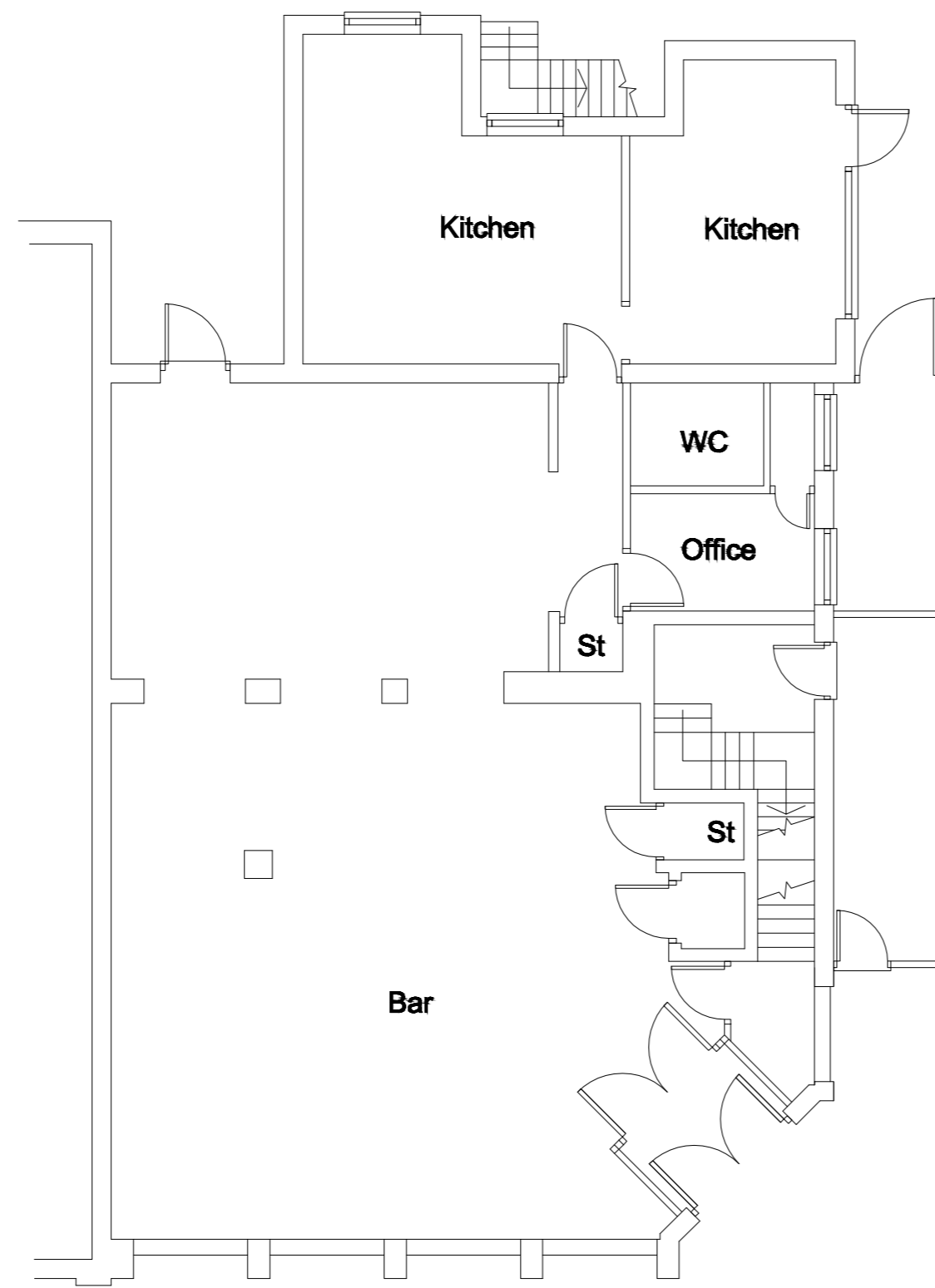
DRG. NO.
02-0718-HB-BL-PR

REVISIONS

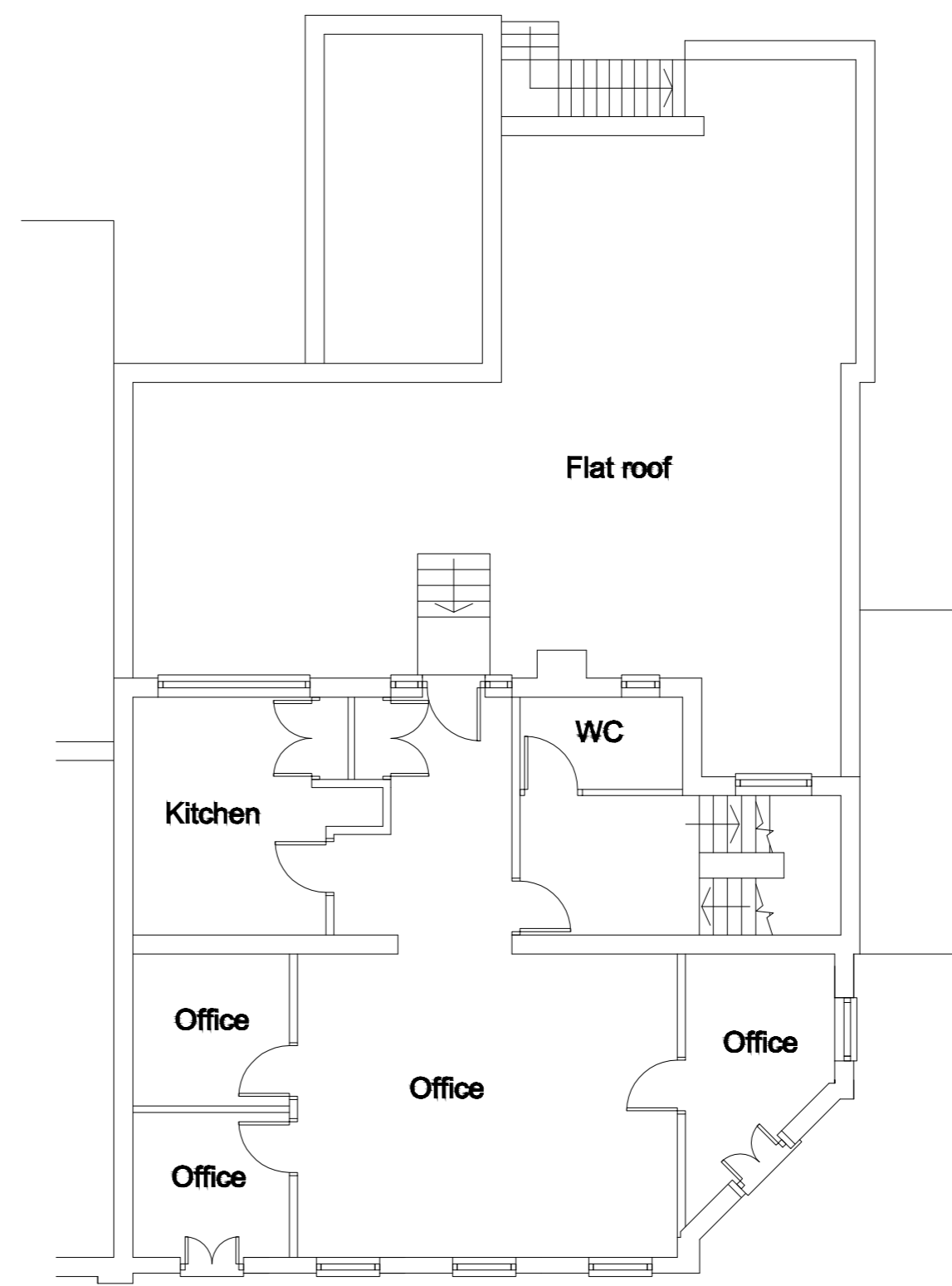
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DATE 25.08.16

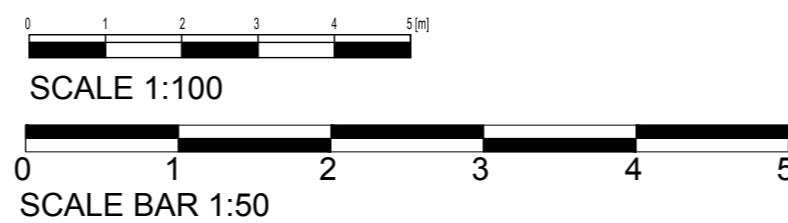
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Existing Ground Floor Plan



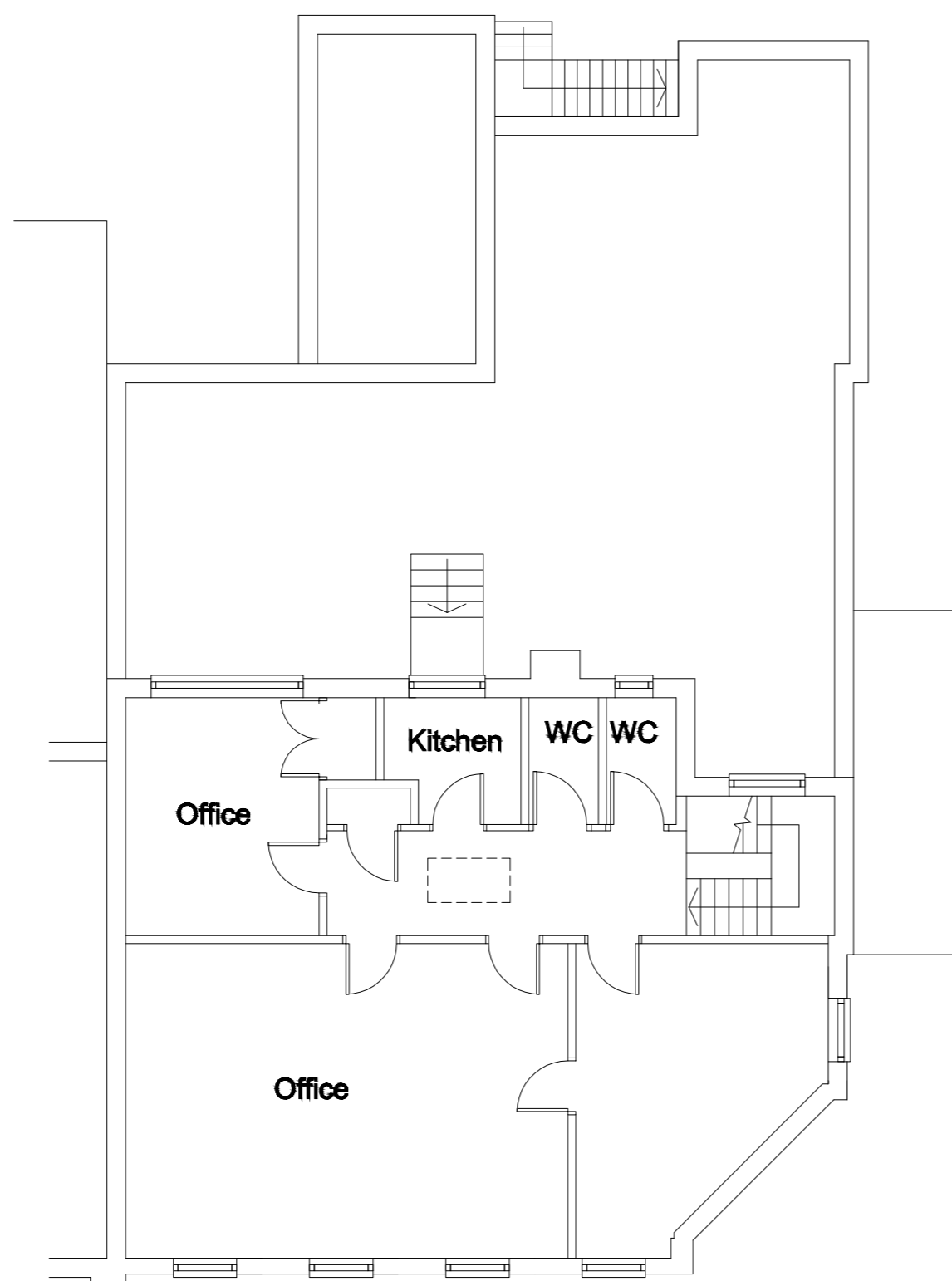
Existing First Floor Plan



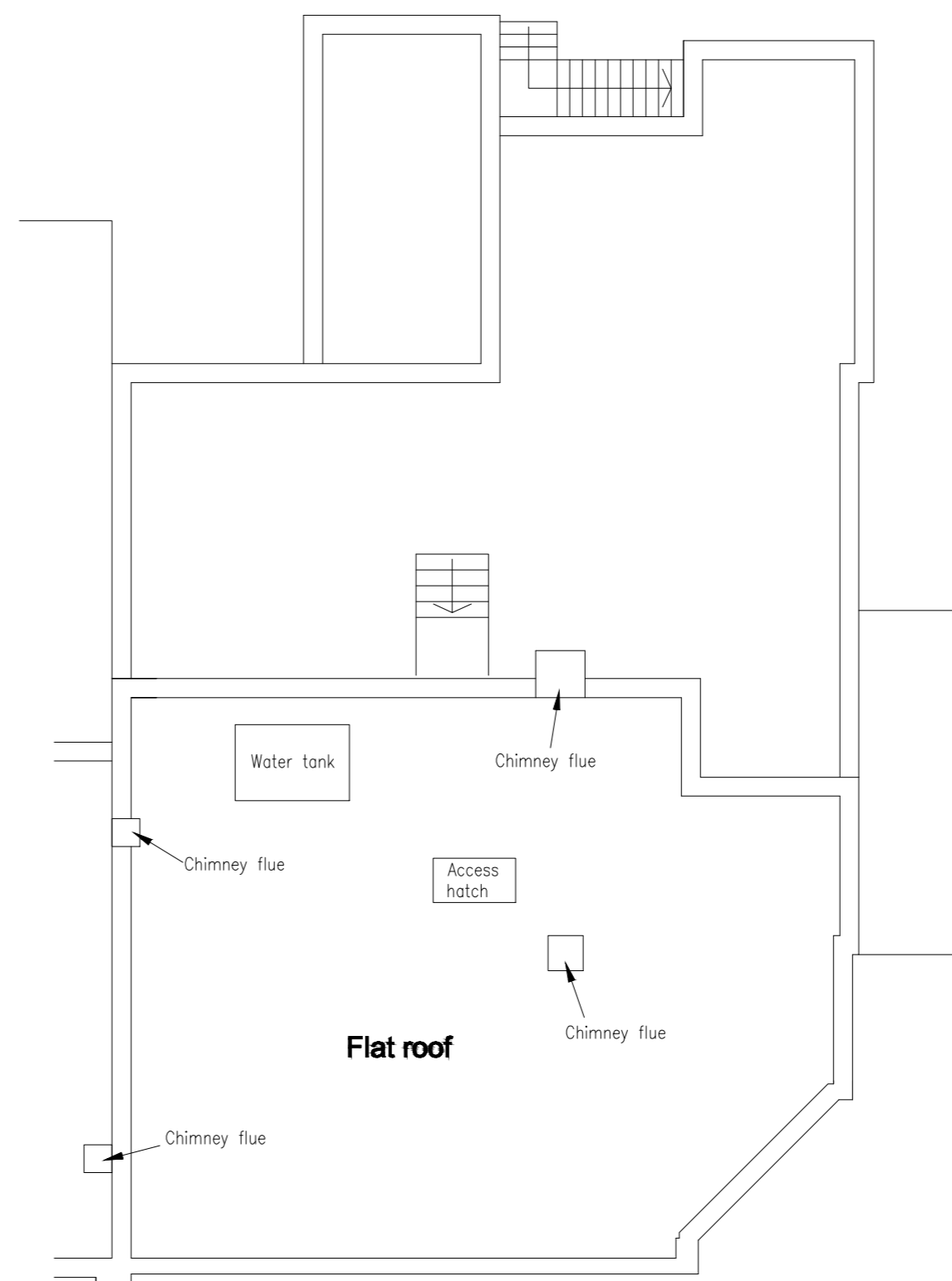
| | |
|---|--|
| PROJECT 12 Harpsfield BroadwayHatfield AL10 9TF | REVISIONS |
| DRAWING Existing floor plan | SCALE 1:100 @A2 DATE 23.09.18 |
| DRG. NO. 02-0718-HB | <small>THIS DRAWING IS COPYRIGHT and must not be traced or copied in any way of form in part of whole by any means whatsoever without prior written consent and may only be used by the present owner, being our current client in relation to the property as referred to on the drawing. This drawing may be copied by an authorised officer of the Local Authority with the sole purpose to assist in the determination of Planning or Building Regulations application and may not be used for any other purpose unless otherwise agreed in writing.</small> |

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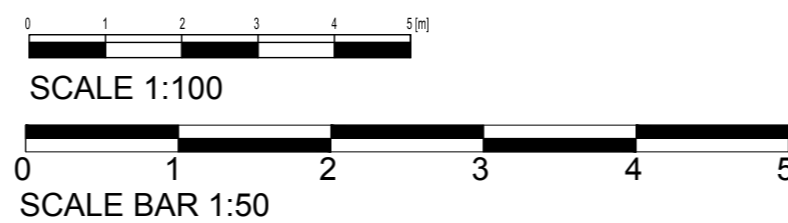
The block contains the company logo, which is a house icon with an orange square inside, and the company name and address in blue text.



Existing Second Floor Plan

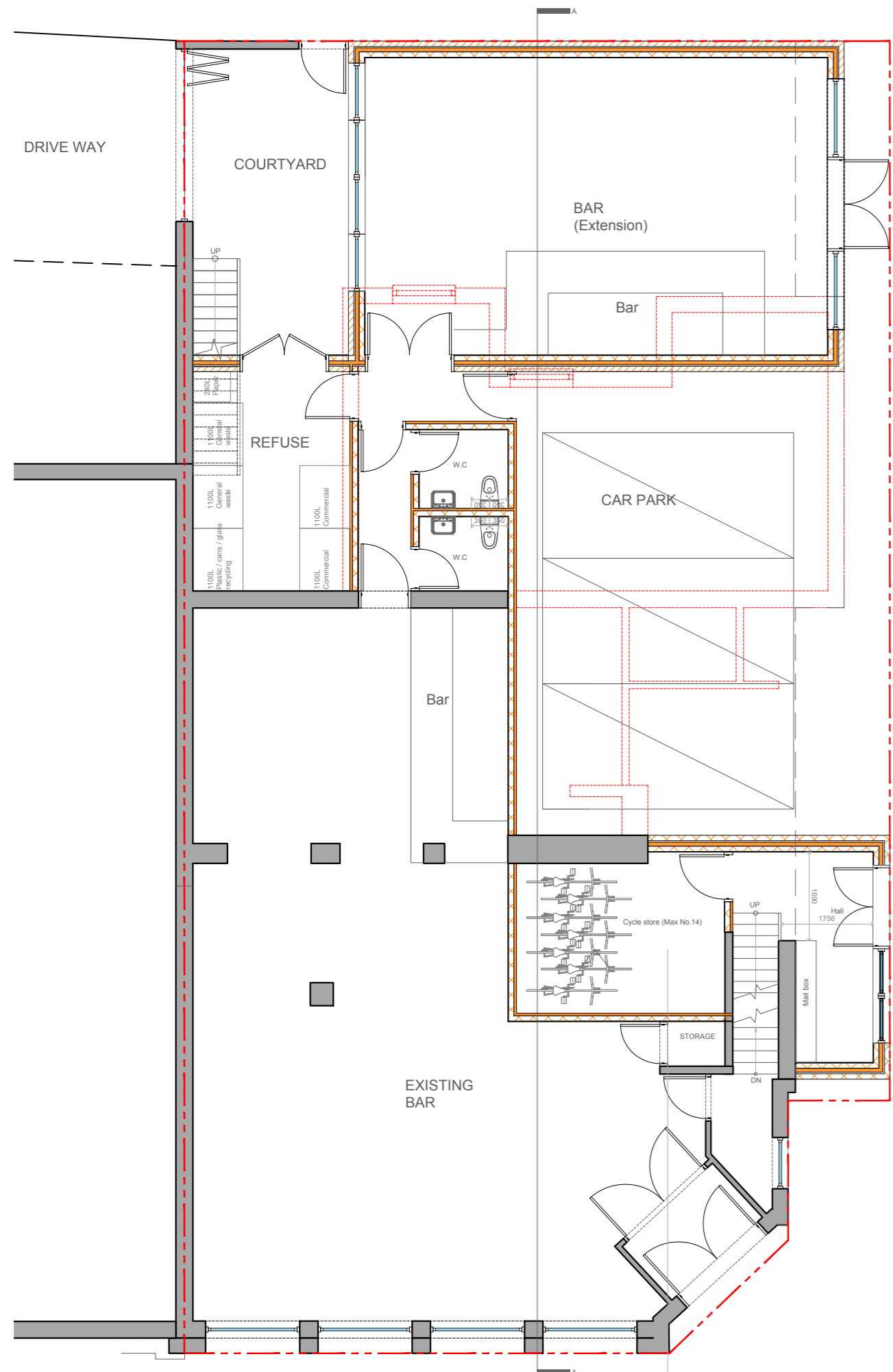


Existing Roof Plan

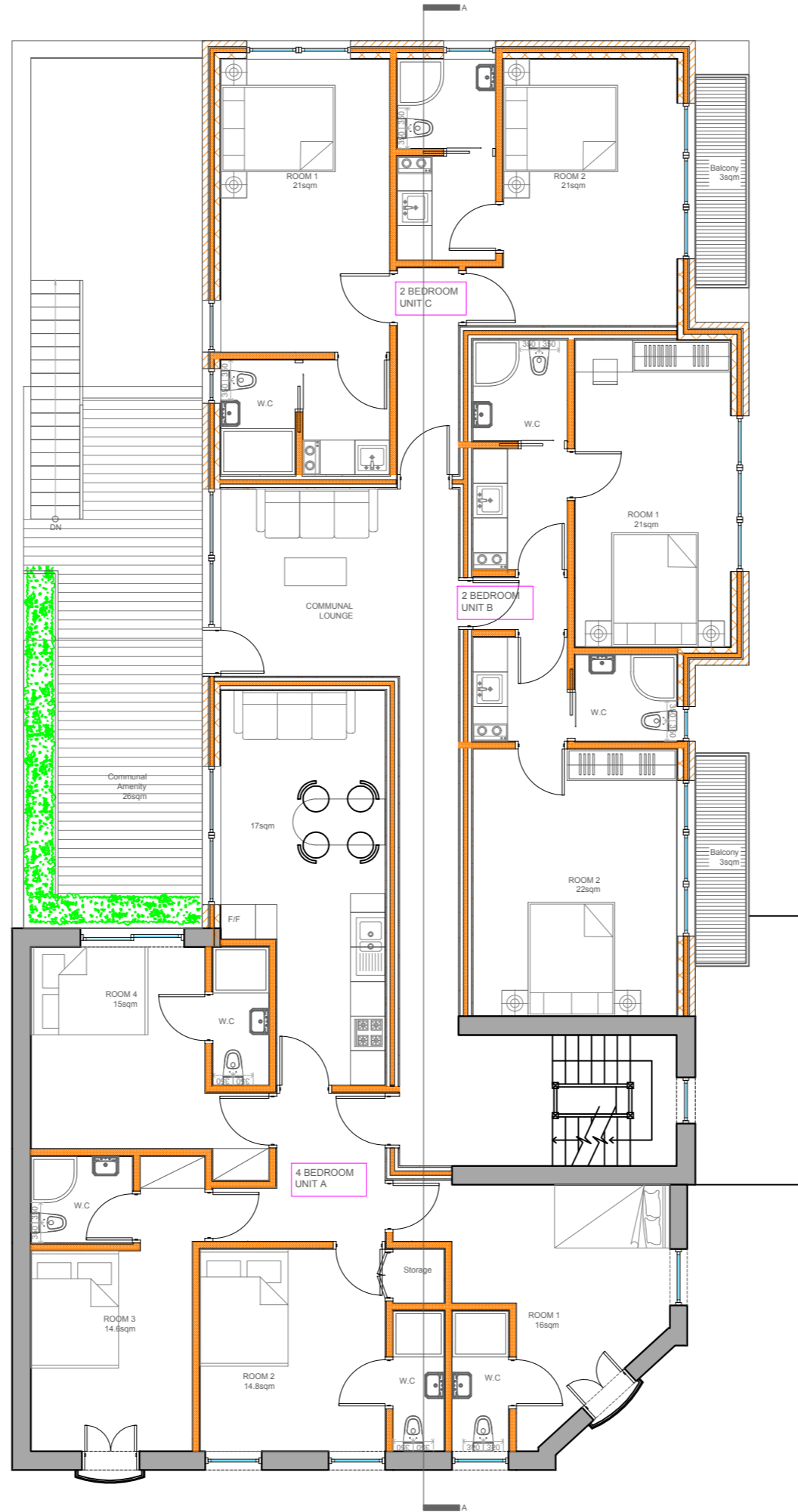


| | |
|--|--|
| PROJECT 12 Harpsfield Broadway Hatfield AL10 9TF | REVISIONS |
| DRAWING Existing floor plan | SCALE 1:100 @A2 DATE 23.09.18 |
| DRG. NO. 03-0718-HB | <small>THIS DRAWING IS COPYRIGHT and must not be traced or copied in any way of form in part of whole by any means whatsoever without prior written consent and may only be used by the present owner, being our current client in relation to the property as referred to on the drawing. This drawing may be copied by an authorized officer of the Local Authority with the sole purpose to assist in the determination of Planning or Building Regulations application and may not be used for any other purpose unless otherwise agreed in writing.</small> |

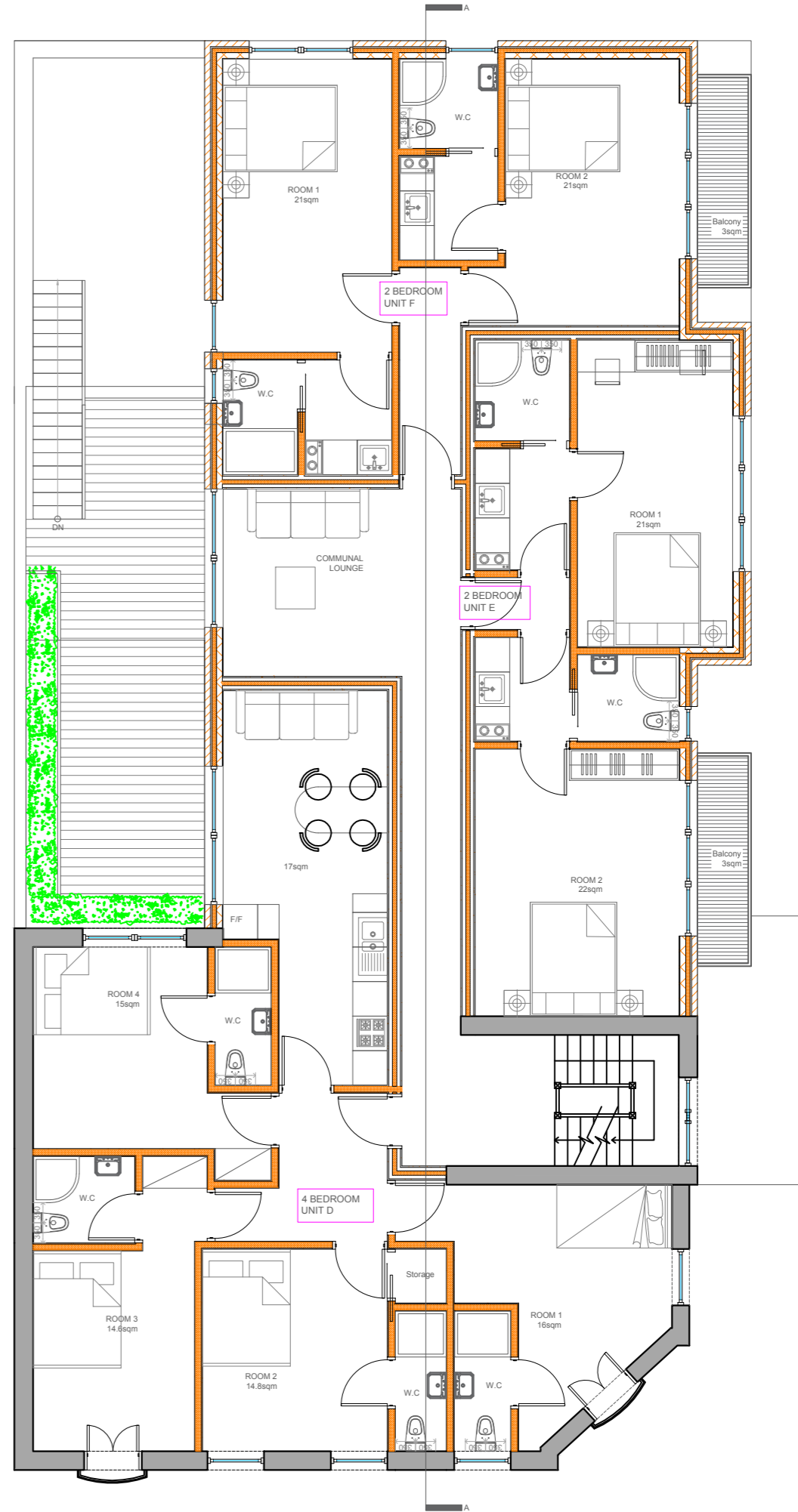
ASAI CONSTRUCTION LTD
224 Finchley Rd, London NW3 6DH



Ground Floor Plan-Proposed



First Floor Plan-Proposed

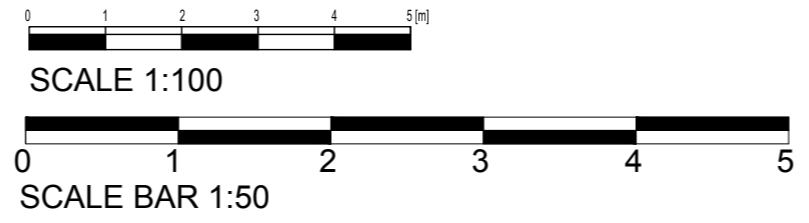



Second Floor Plan-Proposed

Bike Storage

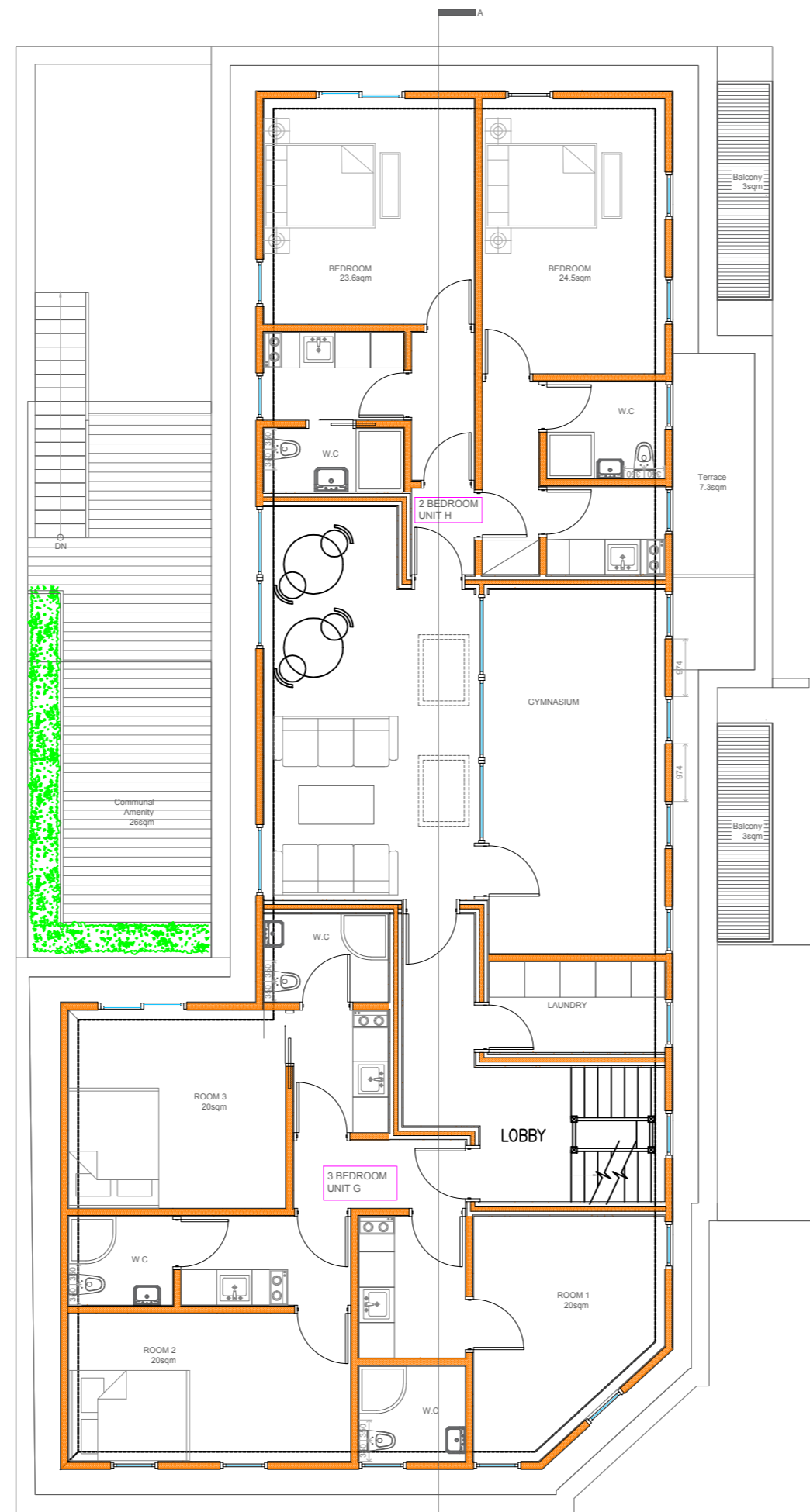
The London Plan cycle parking standards require one secure space per 1-bed flat and two spaces per 2-bed flat. The facility will be secure to encourage use by the residents. It is envisaged that there will be both floor mounted and wall hung racks for cycles within the store.

- Bike storage for 10No. Bicycles using Josta Stacker

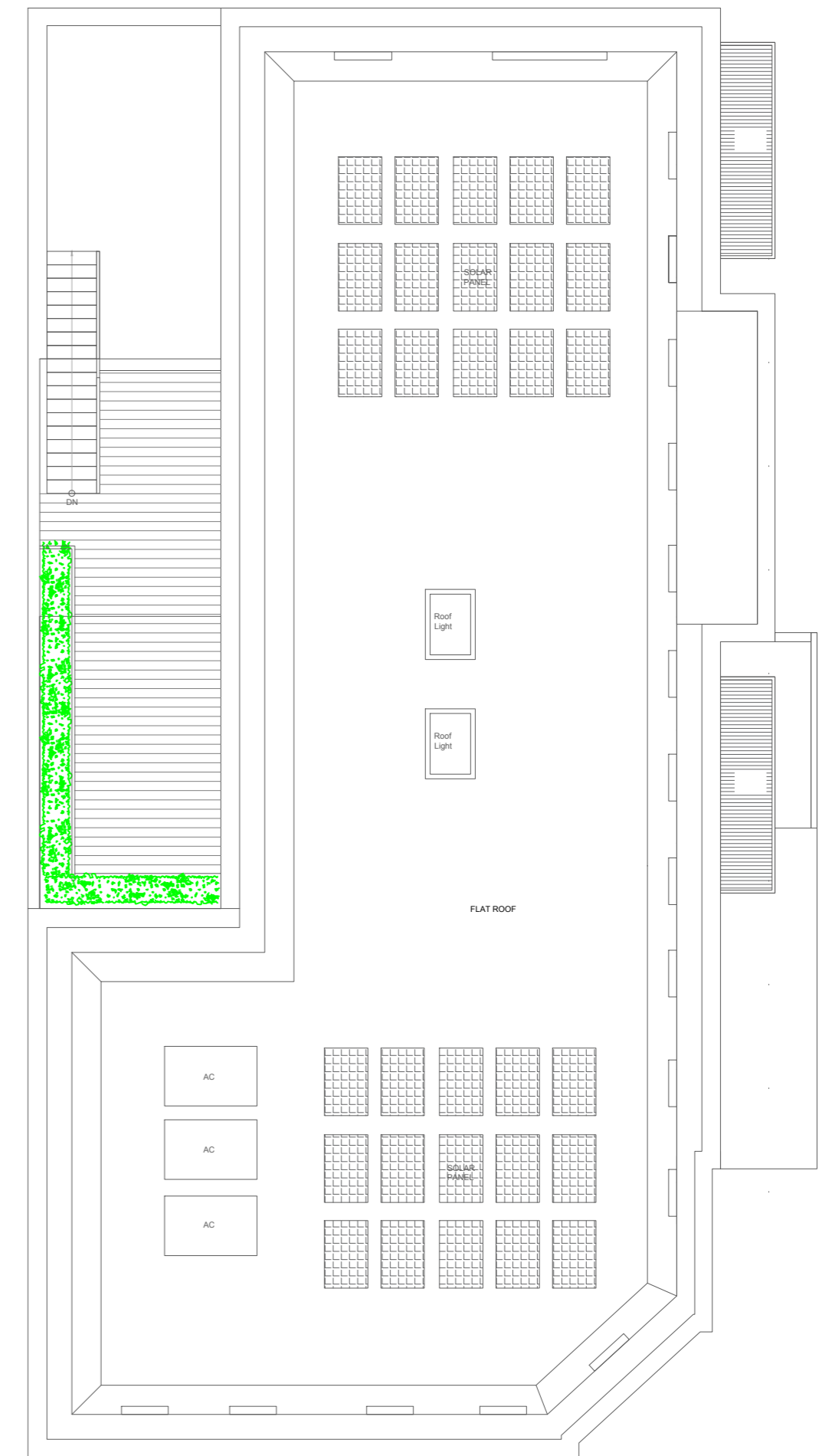


| | | |
|--|--|--|
| PROJECT 12 Harpsfield Broadway Hatfield AL10 9TF | REVISIONS |  ASAI CONSTRUCTION LTD 224 Finchley Rd, London NW3 6DH |
| DRAWING Ground /1st /2nd floor plan-Proposed | SCALE 1:100 @A2 DATE 23.09.18 | |
| DRG. NO. 04A-0718-HB | <small>THIS DRAWING IS COPYRIGHT and must not be traced or copied in any way in part or whole by any means whatsoever without prior written consent and may only be used by the present owner, being our current client in relation to the property as referred to on the drawing. This drawing may be copied by an authorised officer of the Local Authority with the sole purpose to assist in the determination of Planning or Building Regulations application and may not be used for any other purpose unless otherwise agreed in writing.</small> | |

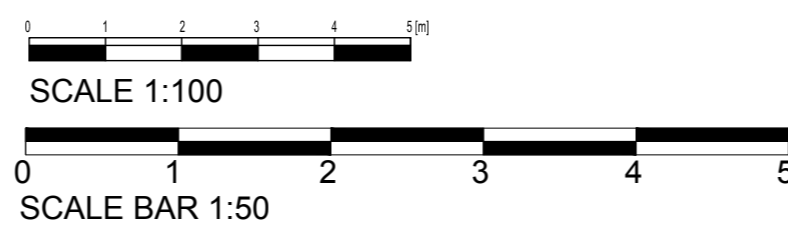
| | TYPE | AREA |
|------------------|----------|-------|
| UNIT A | 4Bed/ 4P | 87sqm |
| UNIT B | 2Bed/ 2P | 46sqm |
| UNIT C | 2Bed/2P | 47sqm |
| UNIT D | 4Bed/ 4P | 87sqm |
| UNIT E | 2Bed/ 2P | 46sqm |
| UNIT F | 2Bed/2P | 47sqm |
| UNIT G | 3Bed/ 3P | 64sqm |
| UNIT H | 2Bed/ 2P | 52sqm |
| Gymnasium | | 18sqm |
| Communal Amenity | | 28sqm |
| Communal Loungae | | 54sqm |



Loft Floor Plan-Proposed



Roof Plan-Proposed

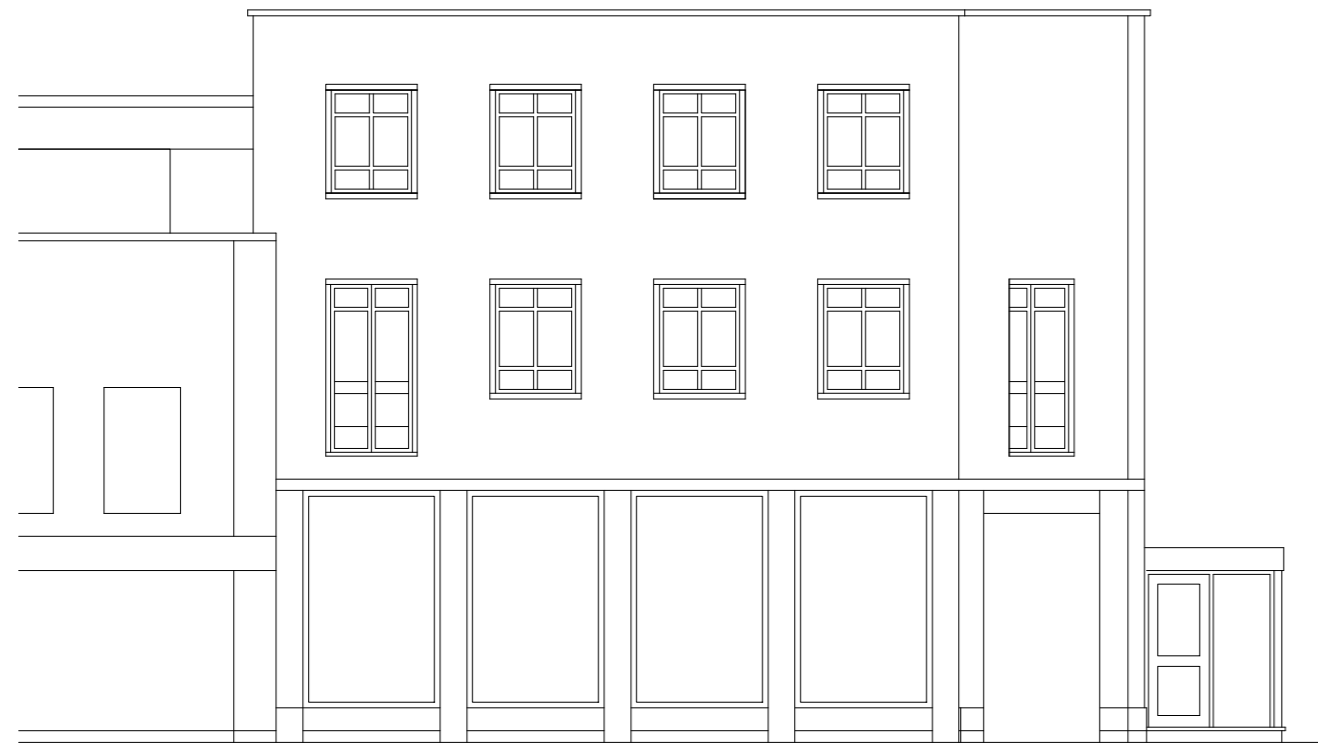


| | |
|--|--|
| PROJECT 12 Harpsfield Broadway Hatfield AL10 9TF | REVISIONS |
| DRAWING Loft floor/Roof plan-Proposed | SCALE 1:100 @A2 DATE 23.09.18 |
| DRG. NO. 04A-0718-HB | <small>THIS DRAWING IS COPYRIGHT and must not be traced or copied in any way in part or whole by any means whatsoever without prior written consent and may only be used by the present owner, being our current client in relation to the property as referred to on the drawing. This drawing may be copied by an authorised officer of the Local Authority with the sole purpose to assist in the determination of Planning or Building Regulations application and may not be used for any other purpose unless otherwise agreed in writing.</small> |

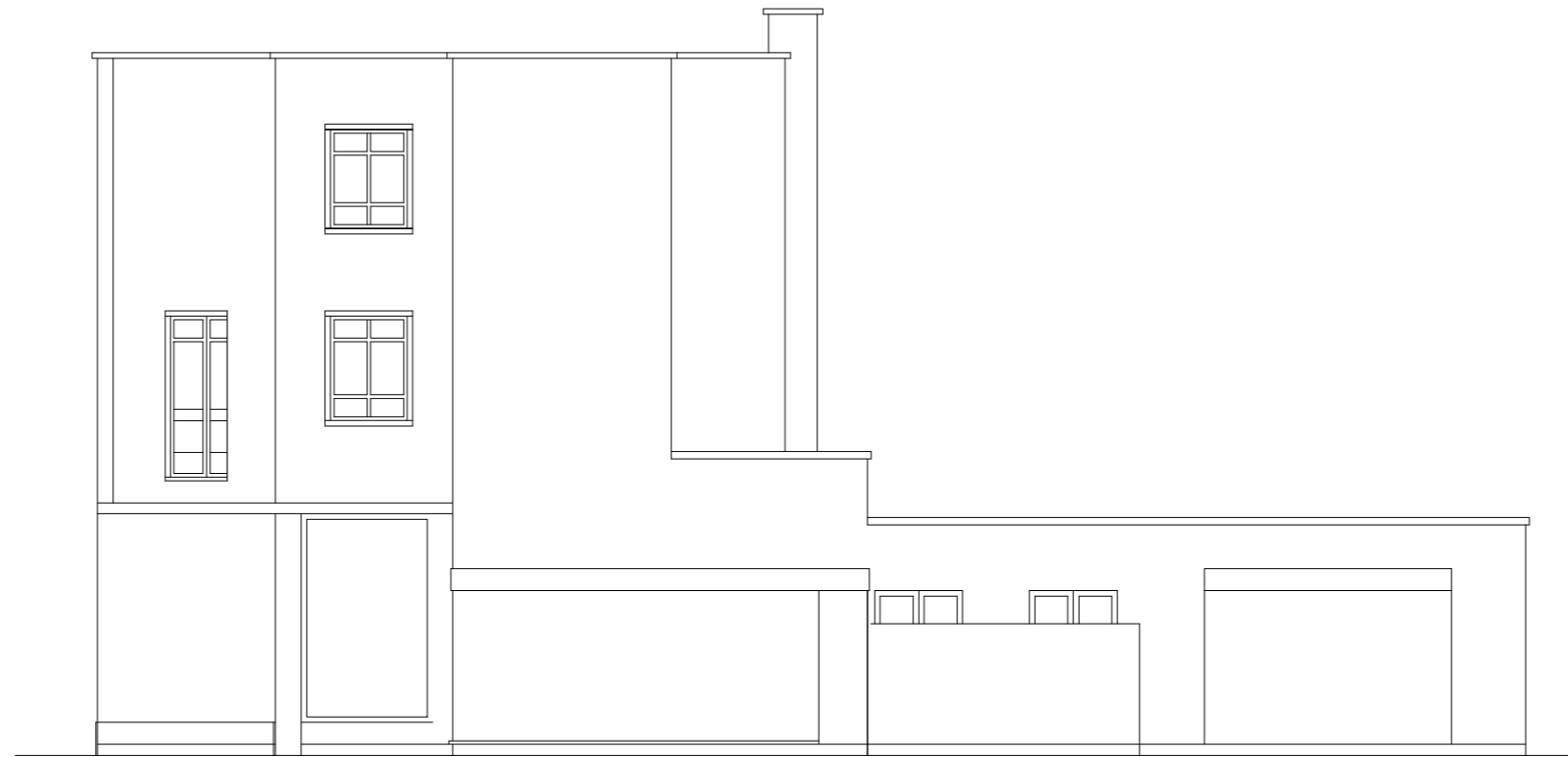


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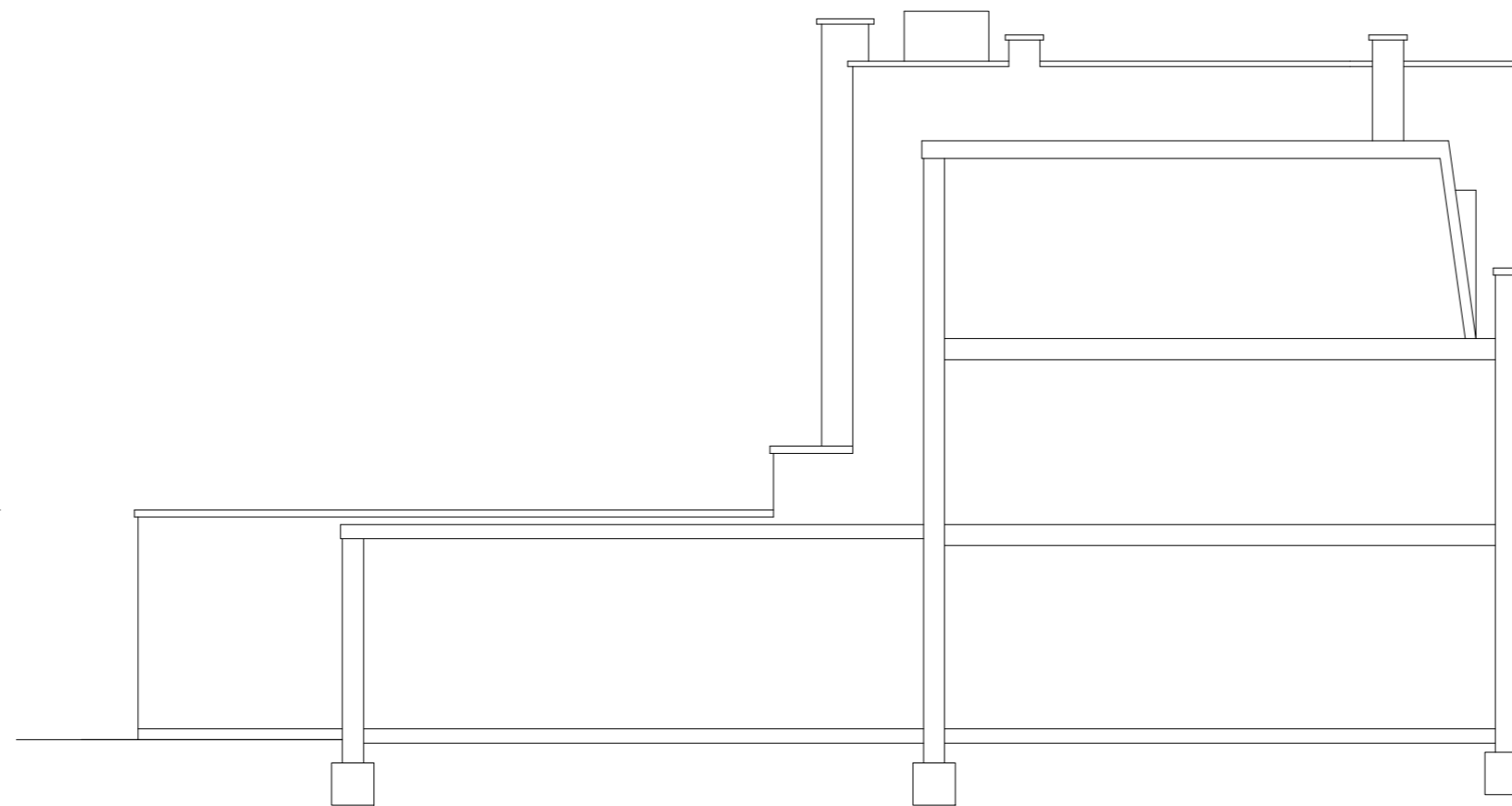
Existing Front Elevation



Existing Side Elevation



Existing Rear Elevation



Existing Side Elevation (section through No11)

0 1 2 3 4 5m SCALE 1:100



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PROJECT

12 Harpsfield Broadway Hatfield AL10 9TF

DRAWING

EXISTING ELEVATION / SECTION

DRG. NO.

08-0718-HB

REVISIONS

SCALE

1:100 @A2

DATE

23.09.18

0 1 2 3 4 5
SCALE BAR 1:50

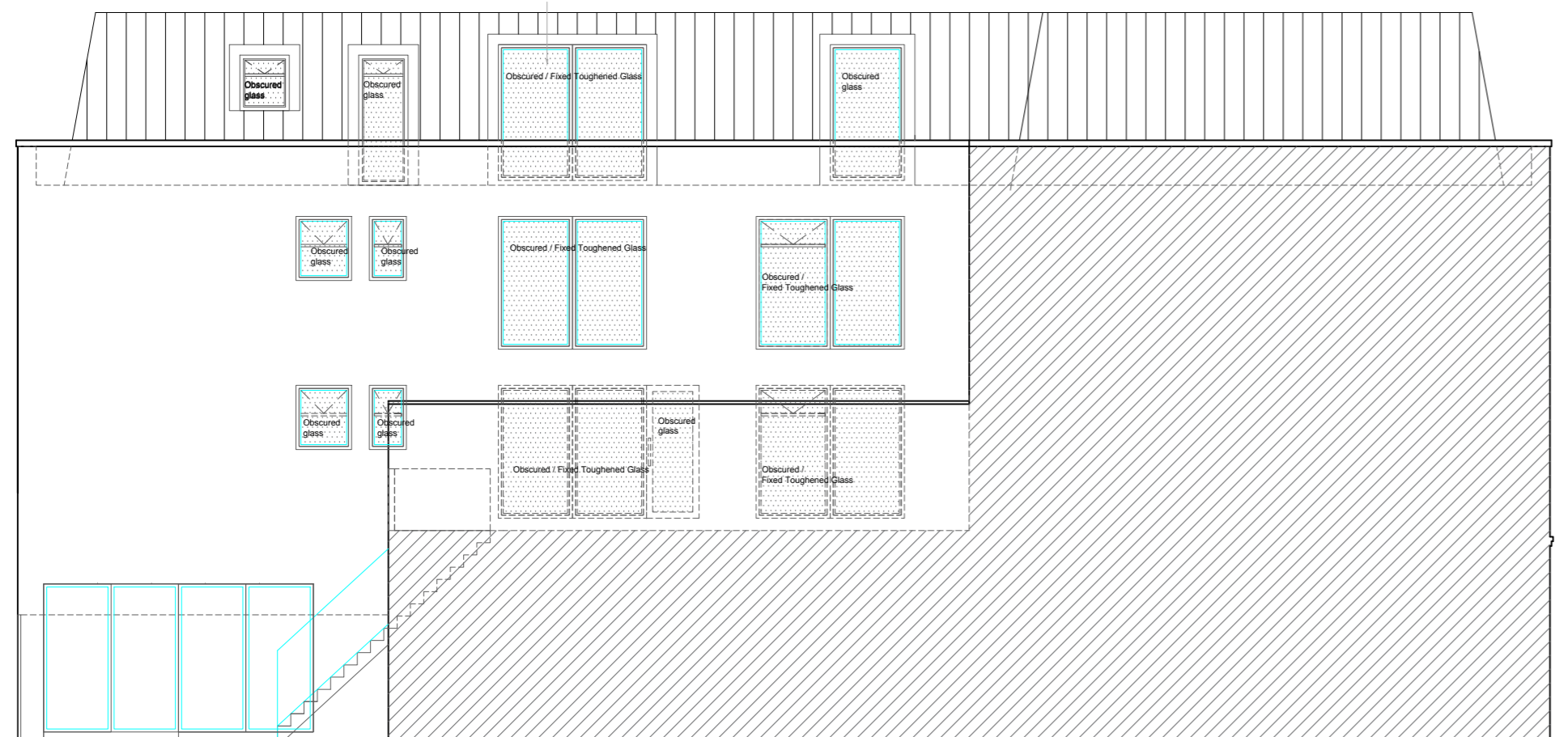
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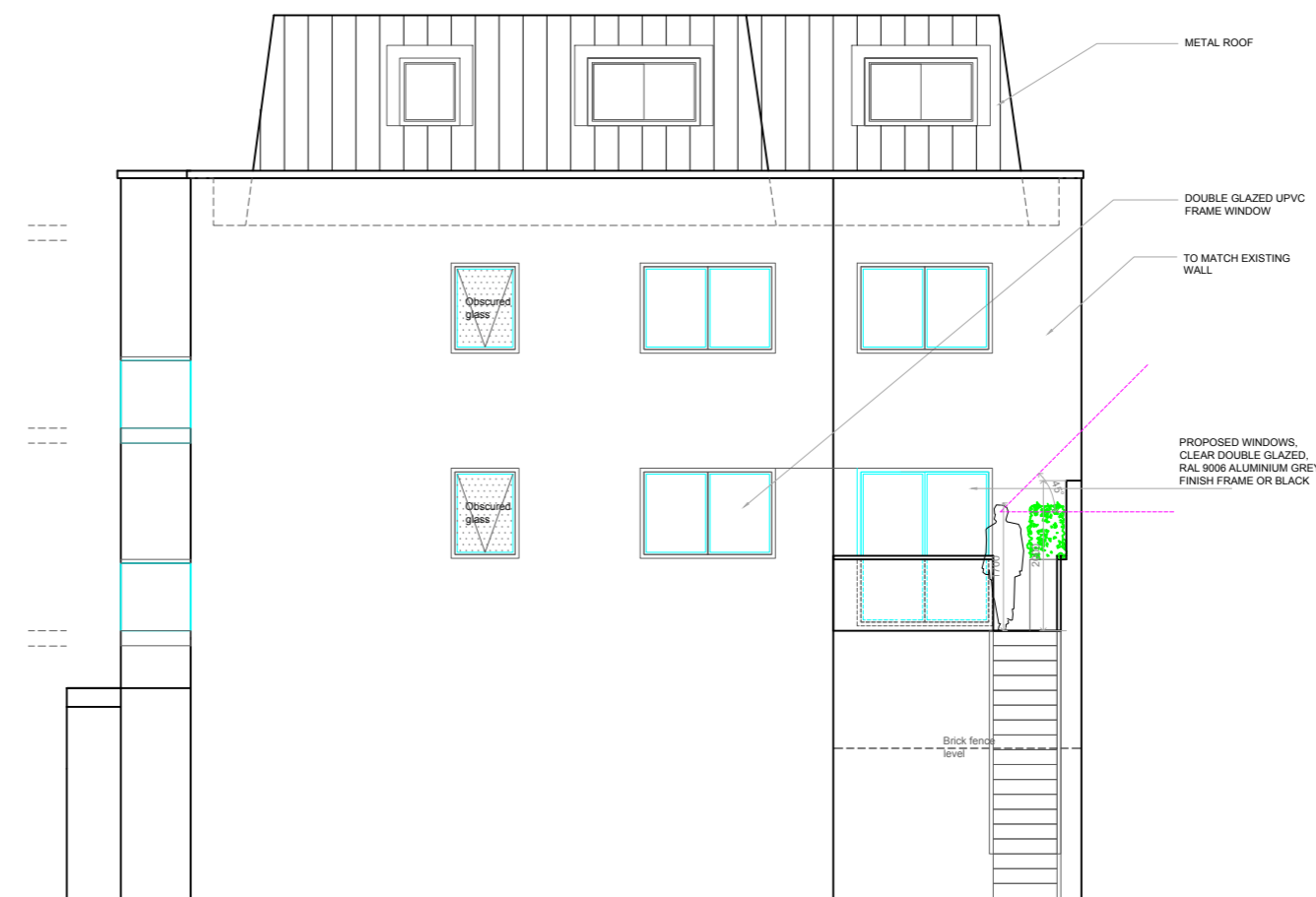
PROPOSED RIGHT SIDE ELEVATION



PROPOSED FRONT ELEVATION



PROPOSED LEFT SIDE ELEVATION



PROPOSED REAR ELEVATION

0 1 2 3 4 5 [m] SCALE 1:100



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224 Finchley Rd, London NW3 6DH

PROJECT
12 Harpsfield Broadway Hatfield AL10 9TF

DRAWING
PROPOSED ELEVATION

DRG. NO.
09-0718-HB

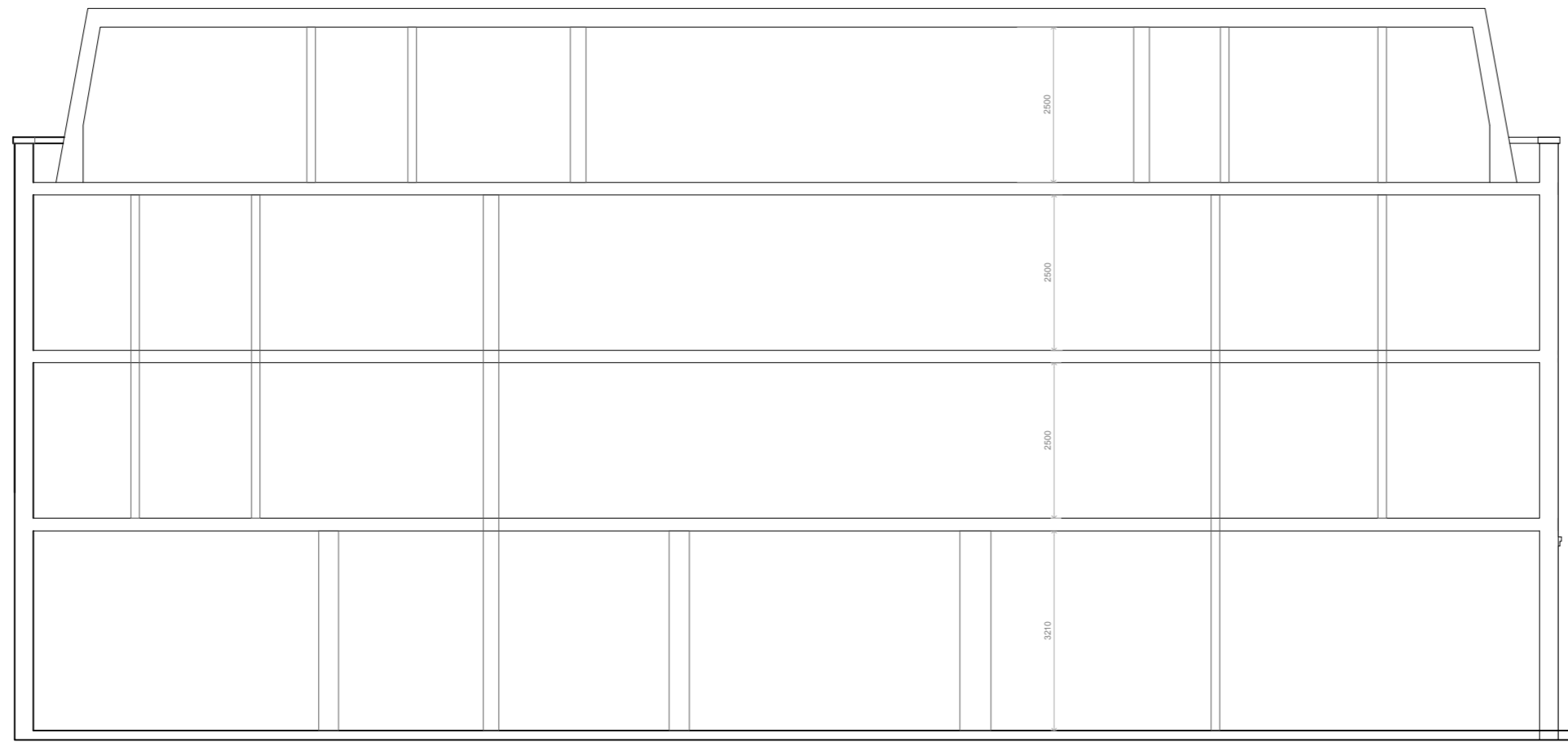
REVISIONS

SCALE 1:100 @A2

DATE 23.09.18

0 1 2 3 4 5
SCALE BAR 1:50

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SECTION PROPOSED- A-A



SCALE 1:100



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PROJECT

12 Harpsfield Broadway Hatfield AL10 9TF

DRAWING

PROPOSED SECTION

DRG. NO.

10-0718-HB

REVISIONS

SCALE

1:100 @A2

DATE

23.09.18



SCALE BAR 1:50

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Appendix A.2 – Graphical Model Outputs

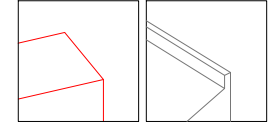
Proposed Site Scenario
NE View



Proposed Site Scenario
SW View

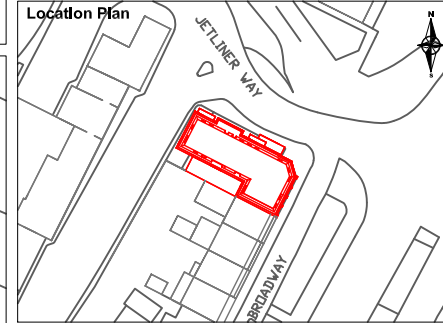


Legend



Proposed Buildings Surrounding Buildings

Location Plan



| Rev | Description | Date |
|-----|-------------|------------|
| 00 | First issue | 31/10/2018 |

CLIENT
PNK Properties

PROJECT
Harpsfield Broadway, Hatfield

| | | | |
|--------------|----------|---------|----------|
| SCALE | PROJ REF | ANALYST | DRAWN BY |
| Not to scale | 2192 | KB | KB |

| | |
|---|--------------------|
| DWG REF. 3D Model - Proposed Site Scenario | DWG No. 2192_01 |
|---|--------------------|

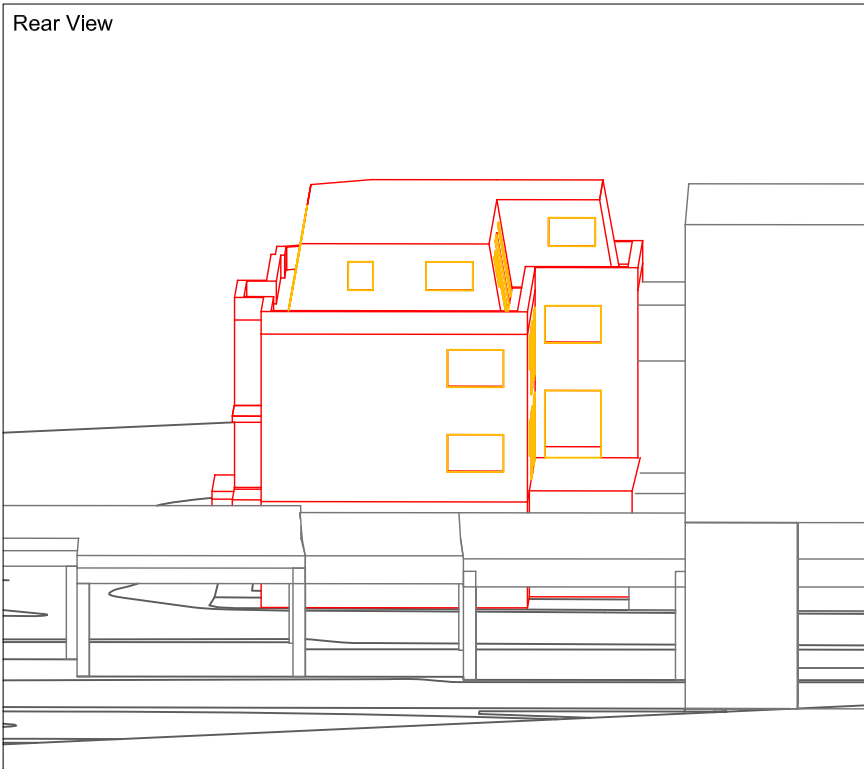
Front View



Right Side View



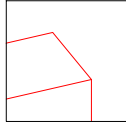
Rear View



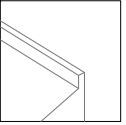
Left Side View



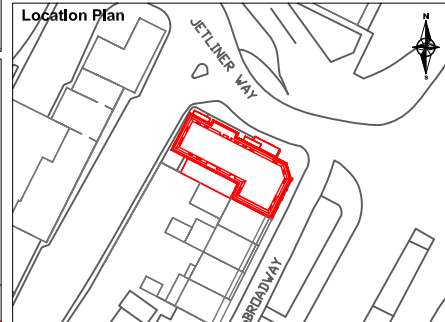
Legend



Proposed Buildings



Surrounding Buildings



| | | |
|--|--|--|
| | | |
| | | |

| Rev | Description | Date |
|-----|-------------|------------|
| 00 | First issue | 31/10/2018 |

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PNK Properties

PROJECT
Harmsfield Broadway, Hatfield

| | | | |
|--------------|----------|---------|----------|
| SCALE | PROJ REF | ANALYST | DRAWN BY |
| Not to scale | 2192 | KB | KB |

| | |
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| DWG REF. 3D Model - Proposed Window Locations | DWG No. 2192_02 |
|--|--------------------|

Proposed Development
First Floor

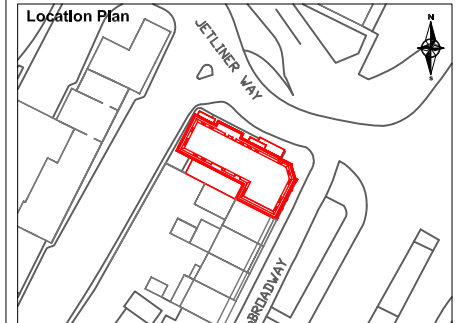


Unit 6 - Barham Business Park
Elham Valley Road
Canterbury
Kent CT4 6DQ

Tel: 01227 833855
enquiries@herringtonconsulting.co.uk
www.herringtonconsulting.co.uk

Legend

Lit area
NSL contour (post development)



| Rev | Description | Date |
|-----|-------------|------------|
| 00 | First issue | 31/10/2018 |

CLIENT
PNK Properties

PROJECT
Harpsfield Broadway, Hatfield

| SCALE | PROJ REF | ANALYST | DRAWN BY |
|--------------|----------|---------|----------|
| Not to scale | 2192 | KB | KB |

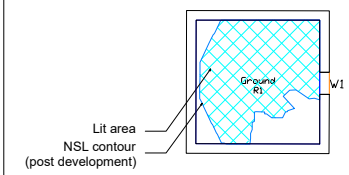
| DWG REF. | DWG No. |
|--------------|---------|
| NSL contours | 2192_03 |



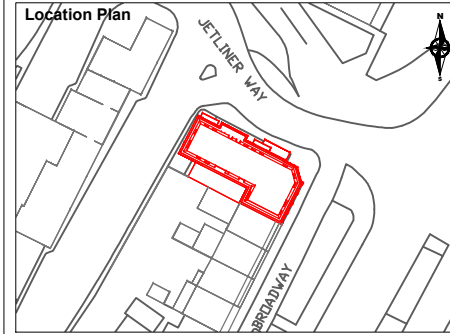
Unit 6 - Barham Business Park
Elham Valley Road
Canterbury
Kent CT4 6DQ

Tel : 01227 833855
enquiries@herringtonconsulting.co.uk
www.herringtonconsulting.co.uk

Legend



Location Plan



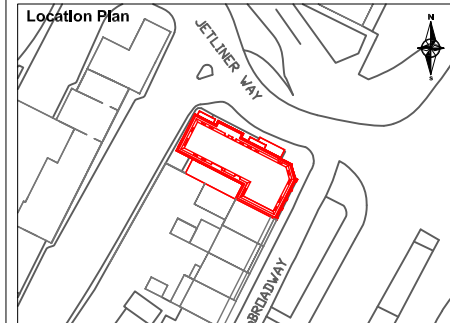
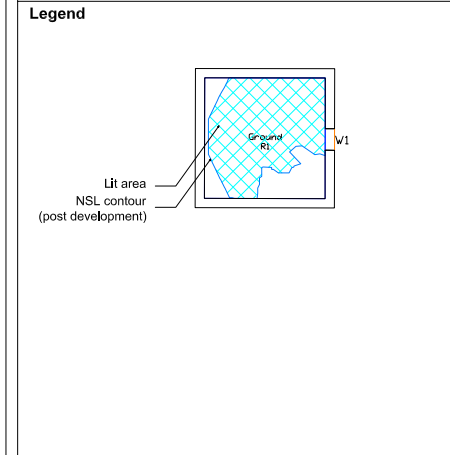
| Rev | Description | Date |
|-----|-------------|------------|
| 00 | First issue | 31/10/2018 |

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PROJECT
Harpsfield Broadway, Hatfield

| SCALE | PROJ REF | ANALYST | DRAWN BY |
|--------------|----------|---------|----------|
| Not to scale | 2192 | KB | KB |

| DWG REF. | DWG No. |
|--------------|---------|
| NSL contours | 2192_04 |



| Rev | Description | Date |
|-----|-------------|------------|
| 00 | First issue | 31/10/2018 |

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PNK Properties

PROJECT
Harpsfield Broadway, Hatfield

| SCALE | PROJ REF | ANALYST | DRAWN BY |
|--------------|----------|---------|----------|
| Not to scale | 2192 | KB | KB |

| DWG REF. | DWG No. |
|--------------|---------|
| NSL contours | 2192_05 |

Appendix A.3 – Average Daylight Factor Calculations

Project Name: Harpsfield Broadway, Hatfield
 Project No.: 2192
 Report Title: Average Daylight Factor Analysis to Proposed New Rooms
 Date: 30/10/2018

| Floor Ref. | Room Ref. | Property Type | Room Use. | Window Ref. | Glass Transmittance | Maintenance Factor | Glazed Area | Room Surface Area | Average Surface Reflectance | ADF Proposed | Req'd Value | Meets BRE Criteria |
|------------|-----------|---------------|-----------|-------------|---------------------|--------------------|-------------|-------------------|-----------------------------|--------------|-------------|--------------------|
| Unit A | | | | | | | | | | | | |
| First | R1 | Residential | Bedroom | W1-L | 0.78 | 0.92 | 0.18 | 63.01 | 0.65 | 0.04 | 1.00 | YES |
| | | | | W1-U | 0.78 | 0.92 | 1.06 | 63.01 | 0.65 | 1.75 | | |
| | | | | W2-L | 0.78 | 0.92 | 0.61 | 63.01 | 0.65 | 0.15 | | |
| | | | | W2-U | 0.78 | 0.92 | 0.97 | 63.01 | 0.65 | 1.60 | | |
| | | | | | | | | | | 3.55 | | |
| First | R2 | Residential | Bedroom | W3-L | 0.78 | 0.92 | 0.18 | 63.09 | 0.65 | 0.04 | 1.00 | YES |
| | | | | W3-U | 0.78 | 0.92 | 1.06 | 63.09 | 0.65 | 1.76 | | |
| | | | | W4-L | 0.78 | 0.92 | 0.18 | 63.09 | 0.65 | 0.04 | | |
| | | | | W4-U | 0.78 | 0.92 | 1.06 | 63.09 | 0.65 | 1.76 | | |
| | | | | | | | | | | 3.60 | | |
| First | R3 | Residential | Bedroom | W5-L | 0.78 | 0.92 | 0.61 | 50.87 | 0.65 | 0.19 | 1.00 | YES |
| | | | | W5-U | 0.78 | 0.92 | 0.97 | 50.87 | 0.65 | 1.99 | | |
| | | | | | | | | | | 2.18 | | |
| First | R4 | Residential | Bedroom | W6-L | 0.78 | 0.92 | 1.22 | 61.42 | 0.65 | 0.20 | 1.00 | YES |
| | | | | W6-U | 0.78 | 0.92 | 1.89 | 61.42 | 0.65 | 2.09 | | |
| | | | | | | | | | | 2.29 | | |
| First | R5 | Residential | LKD | W7-L | 0.45 | 0.92 | 1.63 | 53.16 | 0.65 | 0.20 | 2.00 | YES |
| | | | | W7-U | 0.45 | 0.92 | 2.50 | 53.16 | 0.65 | 2.03 | | |
| | | | | | | | | | | 2.22 | | |
| Unit B | | | | | | | | | | | | |
| First | R1 | Residential | Bedroom | W1-L | 0.78 | 0.92 | 1.84 | 68.70 | 0.65 | 0.43 | 1.00 | YES |
| | | | | W1-U | 0.78 | 0.92 | 2.84 | 68.70 | 0.65 | 4.41 | | |
| | | | | | | | | | | 4.85 | | |
| First | R2 | Residential | Bedroom | W2-L | 0.78 | 0.92 | 1.84 | 73.66 | 0.65 | 0.35 | 1.00 | YES |
| | | | | W2-U | 0.78 | 0.92 | 2.84 | 73.66 | 0.65 | 2.78 | | |
| | | | | | | | | | | 3.13 | | |
| Unit C | | | | | | | | | | | | |
| First | R1 | Residential | Bedroom | W1 | 0.45 | 0.92 | 0.78 | 69.83 | 0.65 | 0.60 | 1.00 | YES |
| | | | | W2 | 0.78 | 0.92 | 1.73 | 69.83 | 0.65 | 2.38 | | |
| | | | | | | | | | | 2.98 | | |
| First | R2 | Residential | Bedroom | W3-L | 0.78 | 0.92 | 1.84 | 65.97 | 0.65 | 0.38 | 1.00 | YES |
| | | | | W3-U | 0.78 | 0.92 | 2.84 | 65.97 | 0.65 | 3.07 | | |
| | | | | | | | | | | 3.46 | | |
| Unit D | | | | | | | | | | | | |
| Second | R1 | Residential | Bedroom | W1-L | 0.78 | 0.92 | 0.14 | 63.01 | 0.65 | 0.04 | 1.00 | YES |
| | | | | W1-U | 0.78 | 0.92 | 0.80 | 63.01 | 0.65 | 1.30 | | |
| | | | | W2-L | 0.78 | 0.92 | 0.61 | 63.01 | 0.65 | 0.15 | | |
| | | | | W2-U | 0.78 | 0.92 | 0.73 | 63.01 | 0.65 | 1.19 | | |
| | | | | | | | | | | 2.68 | | |
| Second | R2 | Residential | Bedroom | W3-L | 0.78 | 0.92 | 0.23 | 63.09 | 0.65 | 0.06 | 1.00 | YES |
| | | | | W3-U | 0.78 | 0.92 | 0.71 | 63.09 | 0.65 | 1.14 | | |
| | | | | W4-L | 0.78 | 0.92 | 0.23 | 63.09 | 0.65 | 0.06 | | |
| | | | | W4-U | 0.78 | 0.92 | 0.71 | 63.09 | 0.65 | 1.14 | | |
| | | | | | | | | | | 2.40 | | |
| Second | R3 | Residential | Bedroom | W5-L | 0.78 | 0.92 | 0.21 | 50.87 | 0.65 | 0.07 | 1.00 | YES |
| | | | | W5-U | 0.78 | 0.92 | 0.65 | 50.87 | 0.65 | 1.29 | | |
| | | | | | | | | | | 1.36 | | |
| Second | R4 | Residential | Bedroom | W6 | 0.78 | 0.92 | 1.73 | 61.42 | 0.65 | 2.18 | 1.00 | YES |
| | | | | | | | | | | 2.18 | | |
| Second | R5 | Residential | LKD | W7-L | 0.45 | 0.92 | 1.55 | 53.16 | 0.65 | 0.21 | 2.00 | YES |
| | | | | W7-U | 0.45 | 0.92 | 2.58 | 53.16 | 0.65 | 2.41 | | |
| | | | | | | | | | | 2.61 | | |
| Unit E | | | | | | | | | | | | |
| Second | R1 | Residential | Bedroom | W1-L | 0.78 | 0.92 | 1.84 | 68.70 | 0.65 | 0.45 | 1.00 | YES |
| | | | | W1-U | 0.78 | 0.92 | 2.84 | 68.70 | 0.65 | 4.45 | | |
| | | | | | | | | | | 4.90 | | |
| Second | R2 | Residential | Bedroom | W2-L | 0.78 | 0.92 | 1.84 | 73.66 | 0.65 | 0.41 | 1.00 | YES |
| | | | | W2-U | 0.78 | 0.92 | 2.84 | 73.66 | 0.65 | 4.11 | | |
| | | | | | | | | | | 4.52 | | |
| Unit F | | | | | | | | | | | | |
| Second | R1 | Residential | Bedroom | W1 | 0.45 | 0.92 | 0.75 | 69.83 | 0.65 | 0.61 | 1.00 | YES |
| | | | | W2 | 0.78 | 0.92 | 1.73 | 69.83 | 0.65 | 2.44 | | |
| | | | | | | | | | | 3.05 | | |
| Second | R2 | Residential | Bedroom | W3-L | 0.78 | 0.92 | 1.84 | 65.97 | 0.65 | 0.45 | 1.00 | YES |
| | | | | W3-U | 0.78 | 0.92 | 2.84 | 65.97 | 0.65 | 4.52 | | |
| | | | | | | | | | | 4.97 | | |

Project Name: Harpsfield Broadway, Hatfield
 Project No.: 2192
 Report Title: Average Daylight Factor Analysis to Proposed New Rooms
 Date: 30/10/2018

| Floor Ref. | Room Ref. | Property Type | Room Use. | Window Ref. | Glass Transmittance | Maintenance Factor | Glazed Area | Room Surface Area | Average Surface Reflectance | ADF Proposed | Req'd Value | Meets BRE Criteria | |
|------------------------|-----------|---------------|---------------|-------------|---------------------|--------------------|-------------|-------------------|-----------------------------|--------------|-------------|--------------------|--|
| Unit G | | | | | | | | | | | | | |
| Third | R1 | Residential | Bedroom | W1 | 0.78 | 0.84 | 0.59 | 53.43 | 0.72 | 1.37 | | | |
| | | | | W2 | 0.78 | 0.84 | 0.59 | 53.43 | 0.72 | 1.37 | | | |
| | | | | W3 | 0.78 | 0.84 | 0.59 | 53.43 | 0.72 | 1.37 | | | |
| | | | | | | | | | | 4.11 | 1.00 | YES | |
| Third | R2 | Residential | Bedroom | W4 | 0.78 | 0.84 | 0.59 | 58.26 | 0.72 | 1.26 | | | |
| | | | | W5 | 0.78 | 0.84 | 0.58 | 58.26 | 0.72 | 1.26 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 2.52 | 1.00 | YES | |
| Third | R3 | Residential | Bedroom | W6 | 0.78 | 0.84 | 1.10 | 57.67 | 0.71 | 2.23 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 2.23 | 1.00 | YES | |
| Unit H | | | | | | | | | | | | | |
| Third | R1 | Residential | Kitchen | W1-L | 0.45 | 0.84 | 0.52 | 26.29 | 0.75 | 0.85 | | | |
| | | | | W1-U | 0.45 | 0.84 | 0.82 | 26.29 | 0.75 | 2.71 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 3.56 | 2.00 | YES | |
| Third | R2 | Residential | Bedroom | W2 | 0.45 | 0.84 | 0.59 | 60.53 | 0.71 | 0.69 | | | |
| | | | | W3 | 0.78 | 0.84 | 1.10 | 60.53 | 0.71 | 2.22 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 2.90 | 1.00 | YES | |
| Third | R3 | Residential | Bedroom | W4 | 0.78 | 0.84 | 0.59 | 63.74 | 0.71 | 1.10 | | | |
| | | | | W5 | 0.78 | 0.84 | 0.59 | 63.74 | 0.71 | 1.13 | | | |
| | | | | W6 | 0.78 | 0.84 | 0.59 | 63.74 | 0.71 | 1.13 | | | |
| | | | | | | | | | | 3.35 | 1.00 | YES | |
| Third | R4 | Residential | Kitchen | W7-L | 0.78 | 0.84 | 0.55 | 21.69 | 0.75 | 2.24 | | | |
| | | | | W7-U | 0.78 | 0.84 | 0.90 | 21.69 | 0.75 | 6.33 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 8.57 | 2.00 | YES | |
| 12 Harpsfield Broadway | | | | | | | | | | | | | |
| First | R1 | Residential | Communal Area | W1-L | 0.45 | 0.92 | 1.63 | 72.58 | 0.65 | 0.18 | | | |
| | | | | W1-U | 0.45 | 0.92 | 2.50 | 72.58 | 0.65 | 1.85 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 2.02 | 1.50 | YES | |
| Second | R1 | Residential | Communal Area | W1-L | 0.45 | 0.92 | 1.55 | 72.58 | 0.65 | 0.19 | | | |
| | | | | W1-U | 0.45 | 0.92 | 2.58 | 72.58 | 0.65 | 2.09 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 2.28 | 1.50 | YES | |
| Third | R1 | Residential | Communal Area | W1-L | 0.45 | 0.84 | 0.83 | 93.18 | 0.70 | 0.23 | | | |
| | | | | W1-U | 0.45 | 0.84 | 1.39 | 93.18 | 0.70 | 1.11 | | | |
| | | | | W2-L | 0.45 | 0.84 | 1.66 | 93.18 | 0.70 | 0.49 | | | |
| | | | | W2-U | 0.45 | 0.84 | 2.79 | 93.18 | 0.70 | 2.32 | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | 4.16 | 1.50 | YES | |
| Third | R2 | Residential | Gymnasium | W3-L | 0.78 | 0.84 | 0.55 | 79.97 | 0.71 | 0.39 | | | |
| | | | | W3-U | 0.78 | 0.84 | 0.90 | 79.97 | 0.71 | 1.51 | | | |
| | | | | W4 | 0.78 | 0.84 | 0.59 | 79.97 | 0.71 | 0.88 | | | |
| | | | | W5 | 0.78 | 0.84 | 0.59 | 79.97 | 0.71 | 0.88 | | | |
| | | | | W6 | 0.78 | 0.84 | 0.55 | 79.97 | 0.71 | 0.82 | | | |
| | | | | | | | | | | 4.49 | 1.50 | YES | |

Appendix A.4 – No Sky Line Calculations

Project Name: Harsfield Broadway, Hatfield
 Project No.: 2192
 Report Title: NSL (Daylight) Analysis to Proposed New Rooms
 Date of Analysis: 30/10/2018

| Floor Ref. | Room Ref. | Property Type | Room Use. | | Room Area | Lit Area Proposed | Meets BRE Criteria |
|---------------|-----------|---------------|-----------|-----------|-----------|-------------------|--------------------|
| Unit A | | | | | | | |
| First | R1 | Residential | Bedroom | Area m2 | 12.07 | 12.04 | YES |
| | | | | % of room | | 100% | |
| | R2 | Residential | Bedroom | Area m2 | 12.20 | 11.65 | YES |
| | | | | % of room | | 95% | |
| | R3 | Residential | Bedroom | Area m2 | 9.74 | 9.44 | YES |
| | | | | % of room | | 97% | |
| | R4 | Residential | Bedroom | Area m2 | 11.63 | 9.46 | YES |
| | | | | % of room | | 81% | |
| | R5 | Residential | LKD | Area m2 | 10.36 | 10.15 | YES |
| | | | | % of room | | 98% | YES |
| Unit B | | | | | | | |
| First | R1 | Residential | Bedroom | Area m2 | 14.32 | 14.18 | YES |
| | | | | % of room | | 99% | |
| | R2 | Residential | Bedroom | Area m2 | 16.40 | 16.14 | YES |
| | | | | % of room | | 98% | |
| Unit C | | | | | | | |
| First | R1 | Residential | Bedroom | Area m2 | 14.88 | 14.86 | YES |
| | | | | % of room | | 100% | |
| | R2 | Residential | Bedroom | Area m2 | 13.91 | 13.77 | YES |
| | | | | % of room | | 99% | |
| Unit D | | | | | | | |
| Second | R1 | Residential | Bedroom | Area m2 | 12.07 | 12.04 | YES |
| | | | | % of room | | 100% | |
| | R2 | Residential | Bedroom | Area m2 | 12.20 | 11.62 | YES |
| | | | | % of room | | 95% | |
| | R3 | Residential | Bedroom | Area m2 | 9.74 | 9.44 | YES |
| | | | | % of room | | 97% | |
| | R4 | Residential | Bedroom | Area m2 | 11.63 | 10.66 | YES |
| | | | | % of room | | 92% | |
| | R5 | Residential | LKD | Area m2 | 10.36 | 10.27 | YES |
| | | | | % of room | | 99% | |
| Unit E | | | | | | | |
| Second | R1 | Residential | Bedroom | Area m2 | 14.32 | 14.18 | YES |
| | | | | % of room | | 99% | |
| | R2 | Residential | Bedroom | Area m2 | 16.40 | 16.20 | YES |
| | | | | % of room | | 99% | |

Project Name: Harpsfield Broadway, Hatfield
 Project No.: 2192
 Report Title: NSL (Daylight) Analysis to Proposed New Rooms
 Date of Analysis: 30/10/2018

| Floor Ref. | Room Ref. | Property Type | Room Use. | | Room Area | Lit Area Proposed | Meets BRE Criteria |
|-------------------------------|-----------|---------------|---------------|-----------|-----------|-------------------|--------------------|
| Unit F | | | | | | | |
| Second | R1 | Residential | Bedroom | Area m2 | 14.88 | 14.86 | YES |
| | | | | % of room | | 100% | |
| | R2 | Residential | Bedroom | Area m2 | 13.91 | 13.80 | YES |
| | | | | % of room | | 99% | |
| Unit G | | | | | | | |
| Third | R1 | Residential | Bedroom | Area m2 | 10.43 | 10.40 | YES |
| | | | | % of room | | 100% | |
| | R2 | Residential | Bedroom | Area m2 | 11.29 | 10.45 | YES |
| | | | | % of room | | 93% | |
| | R3 | Residential | Bedroom | Area m2 | 11.70 | 10.91 | YES |
| | | | | % of room | | 93% | |
| Unit H | | | | | | | |
| Third | R1 | Residential | Kitchen | Area m2 | 3.52 | 3.47 | YES |
| | | | | % of room | | 99% | |
| | R2 | Residential | Bedroom | Area m2 | 12.55 | 12.39 | YES |
| | | | | % of room | | 99% | |
| | R3 | Residential | Bedroom | Area m2 | 13.26 | 13.14 | YES |
| | | | | % of room | | 99% | |
| | R4 | Residential | Kitchen | Area m2 | 2.78 | 2.74 | YES |
| | | | | % of room | | 98% | |
| 12 Harpsfield Broadway | | | | | | | |
| First | R1 | Residential | Communal Area | Area m2 | 16.18 | 16.03 | YES |
| | | | | % of room | | 99% | |
| Second | R1 | Residential | Communal Area | Area m2 | 16.18 | 16.04 | YES |
| | | | | % of room | | 99% | |
| Third | R1 | Residential | Communal Area | Area m2 | 21.26 | 21.04 | YES |
| | | | | % of room | | 99% | |
| | R2 | Residential | Gymnasium | Area m2 | 17.49 | 17.06 | YES |
| | | | | % of room | | 98% | |

Appendix A.5 – APSH Calculations

Project Name: Harpsfield Broadway, Hatfield
 Project No.: 2192
 Report Title: APSH (Sunlight) Analysis to Proposed New Rooms
 Date of Analysis: 30/10/2018

| Floor Ref. | Room Ref. | Property Type | Room Use. | Window Ref. | Window Orientation | Annual | Meets BRE Criteria | Winter | Meets BRE Criteria | Total Suns per Room Annual | Meets BRE Criteria | Total Suns per Room Winter | Meets BRE Criteria | |
|---------------|-----------|---------------|-------------|-------------|--------------------|--------|--------------------|--------|--------------------|----------------------------|--------------------|----------------------------|--------------------|-----|
| Unit A | | | | | | | | | | | | | | |
| First | R1 | Residential | Bedroom | W1 | 27° | 18 | NO | 2 | NO | 39 | YES | 9 | YES | |
| | | | | W2 | 75° | 39 | YES | 9 | YES | | | | | |
| | | R2 | Residential | Bedroom | W3 | 117° | 65 | YES | 22 | YES | 65 | YES | 22 | YES |
| | | | | W4 | 117° | 65 | YES | 22 | YES | | | | | |
| | | R3 | Residential | Bedroom | W5 | 117° | 62 | YES | 20 | YES | 62 | YES | 20 | YES |
| | R4 | Residential | Bedroom | W6 | 297° | 32 | YES | 8 | YES | | | | | |
| | R5 | Residential | LKD | W7 | 207° | 42 | YES | 10 | YES | 42 | YES | 10 | YES | |
| Unit B | | | | | | | | | | | | | | |
| First | R1 | Residential | Bedroom | W1 | 27° | 18 | NO | 2 | NO | 18 | NO | 2 | NO | |
| | | R2 | Residential | Bedroom | W2 | 27° | 16 | NO | 2 | | | | | NO |
| Unit C | | | | | | | | | | | | | | |
| First | R1 | Residential | Bedroom | W1 | 207° | 75 | YES | 27 | YES | 76 | YES | 27 | YES | |
| | | | | W2 | 297° | 29 | YES | 6 | YES | | | | | |
| | R2 | Residential | Bedroom | W3 | 27° | 7 | NO | 0 | NO | 7 | NO | 0 | NO | |
| Unit D | | | | | | | | | | | | | | |
| Second | R1 | Residential | Bedroom | W1 | 27° | 18 | NO | 2 | NO | 39 | YES | 9 | YES | |
| | | | | W2 | 75° | 39 | YES | 9 | YES | | | | | |
| | | R2 | Residential | Bedroom | W3 | 117° | 65 | YES | 22 | YES | 65 | YES | 22 | YES |
| | | | | W4 | 117° | 65 | YES | 22 | YES | | | | | |
| | | R3 | Residential | Bedroom | W5 | 117° | 65 | YES | 22 | YES | 65 | YES | 22 | YES |
| | R4 | Residential | Bedroom | W6 | 297° | 34 | YES | 8 | YES | | | | | |
| | R5 | Residential | LKD | W7 | 207° | 54 | YES | 15 | YES | 54 | YES | 15 | YES | |
| Unit E | | | | | | | | | | | | | | |
| Second | R1 | Residential | Bedroom | W1 | 27° | 18 | NO | 2 | NO | 18 | NO | 2 | NO | |
| | | R2 | Residential | Bedroom | W2 | 27° | 18 | NO | 2 | | | | | NO |
| Unit F | | | | | | | | | | | | | | |
| Second | R1 | Residential | Bedroom | W1 | 207° | 79 | YES | 27 | YES | 79 | YES | 27 | YES | |
| | | | | W2 | 297° | 31 | YES | 7 | YES | | | | | |
| | R2 | Residential | Bedroom | W3 | 27° | 7 | NO | 0 | NO | 7 | NO | 0 | NO | |
| Unit G | | | | | | | | | | | | | | |
| Third | R1 | Residential | Bedroom | W1 | 27° | 22 | NO | 2 | NO | 70 | YES | 23 | YES | |
| | | | | W2 | 75° | 47 | YES | 12 | YES | | | | | |
| | | | | W3 | 117° | 69 | YES | 23 | YES | | | | | |
| | | R2 | Residential | Bedroom | W4 | 117° | 69 | YES | 23 | YES | 69 | YES | 23 | YES |
| | | | | W5 | 117° | 69 | YES | 23 | YES | | | | | |
| | | R3 | Residential | Bedroom | W6 | 297° | 39 | YES | 9 | YES | 39 | YES | 9 | YES |

Project Name: Harpsfield Broadway, Hatfield
 Project No.: 2192
 Report Title: APSH (Sunlight) Analysis to Proposed New Rooms
 Date of Analysis: 30/10/2018

| Floor Ref. | Room Ref. | Property Type | Room Use. | Window Ref. | Window Orientation | Annual | Meets BRE Criteria | Winter | Meets BRE Criteria | Total Suns per Room Annual | Meets BRE Criteria | Total Suns per Room Winter | Meets BRE Criteria | |
|-------------------------------|-------------|---------------|---------------|-------------|--------------------|--------|--------------------|--------|--------------------|----------------------------|--------------------|----------------------------|--------------------|-----|
| Unit H | | | | | | | | | | | | | | |
| Third | R1 | Residential | Kitchen | W1 | 207° | 83 | YES | 27 | YES | 83 | YES | 27 | YES | |
| | R2 | Residential | Bedroom | W2 | 207° | 83 | YES | 27 | YES | | | | | |
| | | | | | W3 | 297° | 37 | YES | 8 | YES | 83 | YES | 27 | YES |
| | R3 | Residential | Bedroom | W4 | 297° | 37 | YES | 8 | YES | | | | | |
| | | | | W5 | 27° | 22 | NO | 2 | NO | 58 | YES | 10 | YES | |
| | | | | W6 | 27° | 22 | NO | 2 | NO | | | | | |
| R4 | Residential | Kitchen | W7 | 27° | 22 | NO | 2 | NO | 22 | NO | 2 | NO | | |
| 12 Harpsfield Broadway | | | | | | | | | | | | | | |
| First | R1 | Residential | Communal Area | W1 | 207° | 66 | YES | 21 | YES | 66 | YES | 21 | YES | |
| Second | R1 | Residential | Communal Area | W1 | 207° | 75 | YES | 25 | YES | 75 | YES | 25 | YES | |
| Third | R1 | Residential | Communal Area | W1 | 207° | 77 | YES | 22 | YES | 84 | YES | 27 | YES | |
| | | | | W2 | 207° | 83 | YES | 27 | YES | | | | | |
| | R2 | Residential | Gymnasium | W3 | 27° | 22 | NO | 2 | NO | 22 | NO | 2 | NO | |
| | | | | W4 | 27° | 22 | NO | 2 | NO | | | | | |
| W5 | | | | 27° | 22 | NO | 2 | NO | | | | | | |
| | | | W6 | 27° | 22 | NO | 2 | NO | 22 | NO | 2 | NO | | |