



## Nutrient Neutral Assessment and Mitigation Strategy

**Report Ref: NNAMS/264**

**Whitlock Rise,**

**Bishopstone,**

**Wiltshire**

**SP5 4AG**

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Reviewer: Sarah Belton MSci MSc – Director Hydrologist/Hydrogeologist

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## 1 Introduction

Nutrient Neutral has been commissioned by Cherrington Planning to undertake an assessment of the phosphorus generated by a proposed residential development at Whitlock Rise, Bishopstone, Wiltshire, SP5 4AG and to develop a mitigation strategy for any residual. The site is located within the River Avon Special Area of Conservation (SAC) which has been identified as failing its water quality targets, with respect to phosphorus.

To ensure compliance with the requirements of the Habitats Regulations and Water Framework Directive, new development around the catchment must not (alone or in combination) result in non-compliance with River Avon SAC water quality targets or compound existing problems of target exceedance in those parts of the catchment already failing standards. Furthermore, new developments must not prejudice achievement of Conservation Objectives for the River Avon SAC over the long-term.

The phosphorus load generated by the proposed development has been calculated according to the generic nutrient methodology and a mitigation solution developed to ensure the proposed development is neutral.

The assessment has been prepared using the River Avon SAC calculator (Natural England and Ricardo).

### 1.1 Site characteristics

#### 1.1.1 Site location

The site is located in the village of Bishopstone. The proposed development comprises 15 residential dwellings. The application area extends to approximately 1.29 hectares (ha). The site is currently used for beef cattle production and lowland grazing and greenspace. It is centred around National Grid Reference (NGR) SU 07521 26343 (Appendix 1).

#### 1.1.2 Topography

The site is located at the base of a fairly steeply sloped valley. The elevations on site decrease from 85 metres Above Ordnance Datum (AOD) in the north of the site to 75 mAOD in the south of the site. To the south of the site, the land levels out and elevations decrease gradually to a local low of 70 mAOD some 0.44 km southeast. Elevations increase north-westwards to a local high of 180 mAOD some 2.79 km north of the site.

### 1.1.3 Soils

Based on the Cranfield University Soilscales webtool (<http://www.landis.org.uk/Soilscales>), the soils at the site are classified as 'Soilscales 7' which are freely draining, slightly acid but base rich soils.

### 1.1.4 Hydrology

The nearest watercourse, the River Ebble, is located approximately 310 m south of the site. It flows south-eastwards to its confluence with the River Avon, southwest of Alderbury at NGR SO 37933 65272. The site is located in a Nitrate Vulnerable Zone.

The site is in Flood Zone 1 and therefore has a 'low probability' of flooding.

### 1.1.5 Rainfall

The 1991-2020 annual average rainfall was sourced from the National River Flow Archive at 930 mm/yr (<https://nrfa.ceh.ac.uk/data/search>).

## 2 Calculation of nutrient export from the proposed development

Phosphorus calculations have been undertaken using the River Avon nutrient budget calculator (Natural England). Full calculation sheets are attached (**Appendix 2**), and the pertinent information summarised below.

### 2.1 Proposed development

The proposed development is on the periphery of Bishopstone and comprises 9 dwellings with associated amenity space. The site extends to approximately 1.29 hectare (ha) and the current land use comprises a livestock yard, cereal land and associated grazing pasture. There is one main barn onsite that is used for over-wintering beef cattle and an associated cattle pad/exercise yard.

### 2.2 Calculation of wastewater load

The site is not located within a sewered area. Therefore, it is proposed to install an onsite package treatment plant, which will discharge to ground. A Fuji Clean is suggested which is a purely biological system and does not require chemical dosing. This system has a treated effluent phosphorus concentration of 0.6 mg/l. The manufacturer's certificate to confirm the discharge quality of the system is provided in **Appendix 3**.

For the development of 9 dwellings, an occupation of 2.4 people per dwelling is assumed. An average water use of 95 litres per person per day has been confirmed by John Stobart of Natural England. This would result in a Total Phosphorus (TP) load of **0.45 kg TP/yr**.

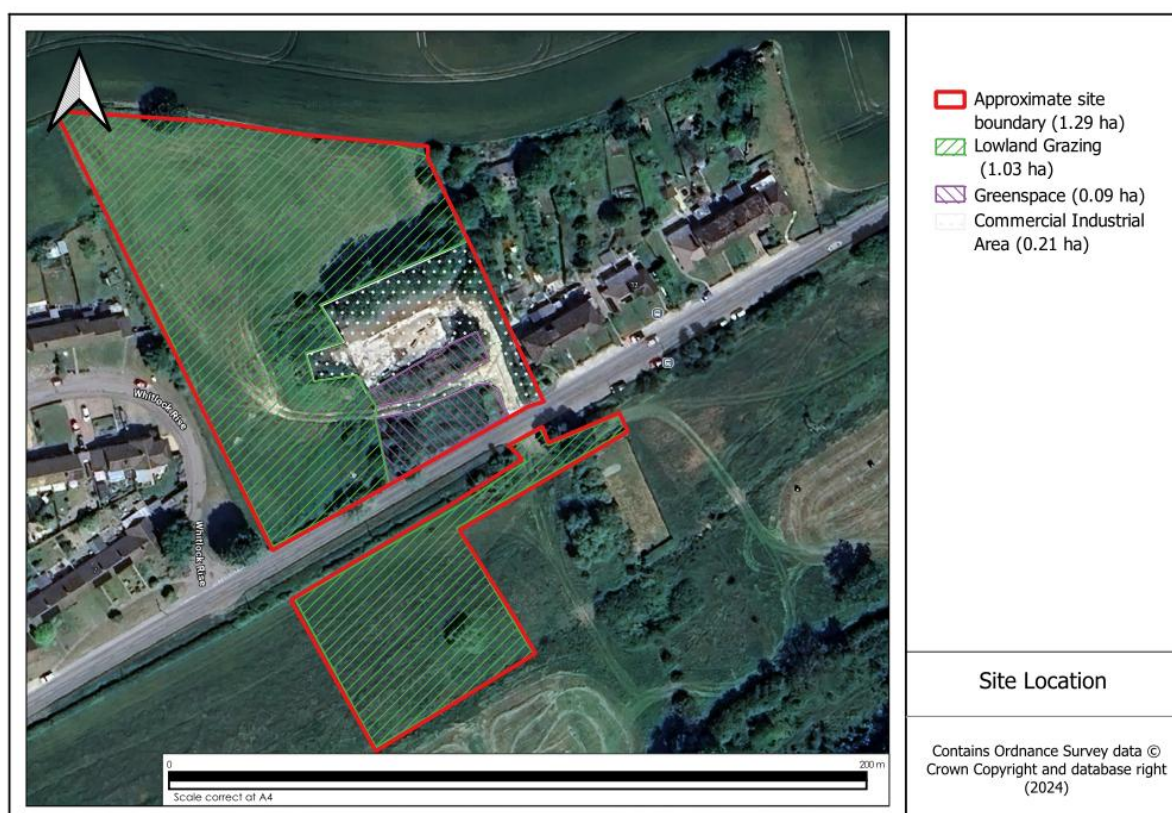
### 2.3 Land use change

Calculations of land use change have been undertaken as per the River Avon nutrient calculator whereby pre- and post-development land use is considered.

The current land use at the site comprises approximately 0.21 hectares (ha) of commercial/industrial urban land, and approximately 1.03 ha lowland grazing and greenspace

0.05 ha. This results in an annual TP generation of **0.41 kg TP/yr**. The land use breakdown is provided below:

### Drawing 264/NNAMS/01: Land use



### 2.4.5 Post-development nutrient export

Post-development, the site will comprise urban development (approximately 0.63 ha) and greenspace (0.66 ha). This will result in the generation of a TP load of **1.18 kg TP/yr** based on the generic calculation method.

However, within Part 2.1.C of the generic methodology guidance, it is stated that where specific measures are incorporated to support a different event mean concentration (EMC) and/or percentage of impermeable area, the Modified Rational Method can be used to calculate a more locally specific rainfall runoff, considering different land cover, and hence export coefficient. This results from the attenuating properties of the soil with respect to phosphorus. Due to the high charge on the phosphate molecule, it adheres to clayey soil particles and becomes immobilised. The generic methodology, used above, assumes an 80% impervious area. However, of the total developable area of 0.6 ha the precautionary impervious area is calculated at 45% (0.27 ha).

The subsequent site-specific surface water runoff has been calculated, using a bespoke Modified Rational Method to obtain a more accurate runoff and hence urban load for the development. The results of the Modified Rational Method indicate that approximately 27% of rainfall falling on the site would generate surface water runoff, with the remaining 73% expected to infiltrate to ground (Appendix 4).

This calculation has been replicated in the SuDS worksheet of the nutrient budget which demonstrates 73% of the runoff discharges to ground. Therefore, reducing the post development phosphorus by 0.85 kg TP/yr. Therefore, the revised post development phosphorus load is 0.31 kg TP/yr.

The additional 23% that doesn't discharge directly to ground will infiltrate to ground via the pervious paving and the soakaways that are proposed as part of the SuDS design.

CIRIA guidance<sup>1</sup> states that where surface water is infiltrated to ground, TP is 100% removed provided it does not cause pollution to groundwater.

The SuDS nutrient reduction calculations, assessment of pollution risk to groundwater and a summary of the nutrient removal capabilities are detailed in appendix 3 and they are summarised below:

| SuDS features                 | TP export before removal<br>(kg TP/yr) | TP removal (%) | TP export after removal<br>(kg TP/yr) |
|-------------------------------|----------------------------------------|----------------|---------------------------------------|
| Pervious Paving and Soakaways | 0.31                                   | 100            | 0.00                                  |

The effect of the SuDS nutrient removal on the total post-development land use is detailed below.

| Post—development export | TP export<br>(kg TP/yr) |
|-------------------------|-------------------------|
| Excluding SuDS and MRM  | 1.18                    |
| Including SuDS and MRM  | 0.01                    |

This will reduce the post-development export by **1.17 kg TP/yr**. Therefore, the post development export is reduced to **0.01 kg TP/yr**.

---

<sup>1</sup> Using SuDS to reduce phosphorus in surface water runoff, CIRIA C808, 2022

### 3 Summary of the phosphorus balance for this development

A summary of the pertinent calculations is presented in the table below.

| Phosphorus budget                      |                |
|----------------------------------------|----------------|
| Description                            | Value kg TP/yr |
| TP wastewater, post-treatment          | 0.45           |
| Pre-development land use               | 0.41           |
| Post-development site loss (Post Suds) | 0.02           |
| Land use net change                    | -0.39          |
| Phosphorus budget                      | <b>0.06</b>    |
| 20% buffer                             | <b>0.01</b>    |
| Phosphorus budget + 20% buffer         | <b>0.07</b>    |

The total phosphorus budget for the site is **0.07 kg TP/yr** and therefore the proposed development will require nutrient mitigation.

### 4 Mitigation

The proposed development requires mitigation. This will be secured through the purchase of nutrient credits from a verified credit provider. A Credit Purchase Agreement, or similar document, will be provided to the developer by the credit provider.

### 5 Conclusion

It is proposed to construct 9 new dwellings at Whitlock Rise, Bishopstone, Wiltshire, SP5 4AG.

The proposed development will generate 0.07 kg TP/yr and will require mitigation. Mitigation will be supplied through the purchase of nutrient credits which will ensure the development is nutrient neutral. It can therefore be concluded that the proposed development will not prevent the Conservation Objectives of the River Avon SAC from being achieved.

## **APPENDIX 264/NNAMS/A1**

### **Site plan and location plans**

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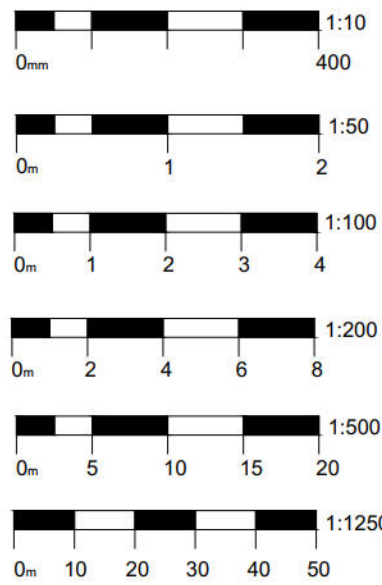
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Structures to be removed



B Highways/Landscape updates 28.01.26  
A Highways/Landscape updates 26.01.26  
Rev Comment Date

Project: New Dwellings  
Land at Bishopstone,  
Salisbury, Wiltshire

Client: Cherrington Planning

Drawing Title: Location & Block Plans

Job No: 250821  
Drawn: RM | NH  
Date: 16.01.2026  
Scale: as indicated @ A1

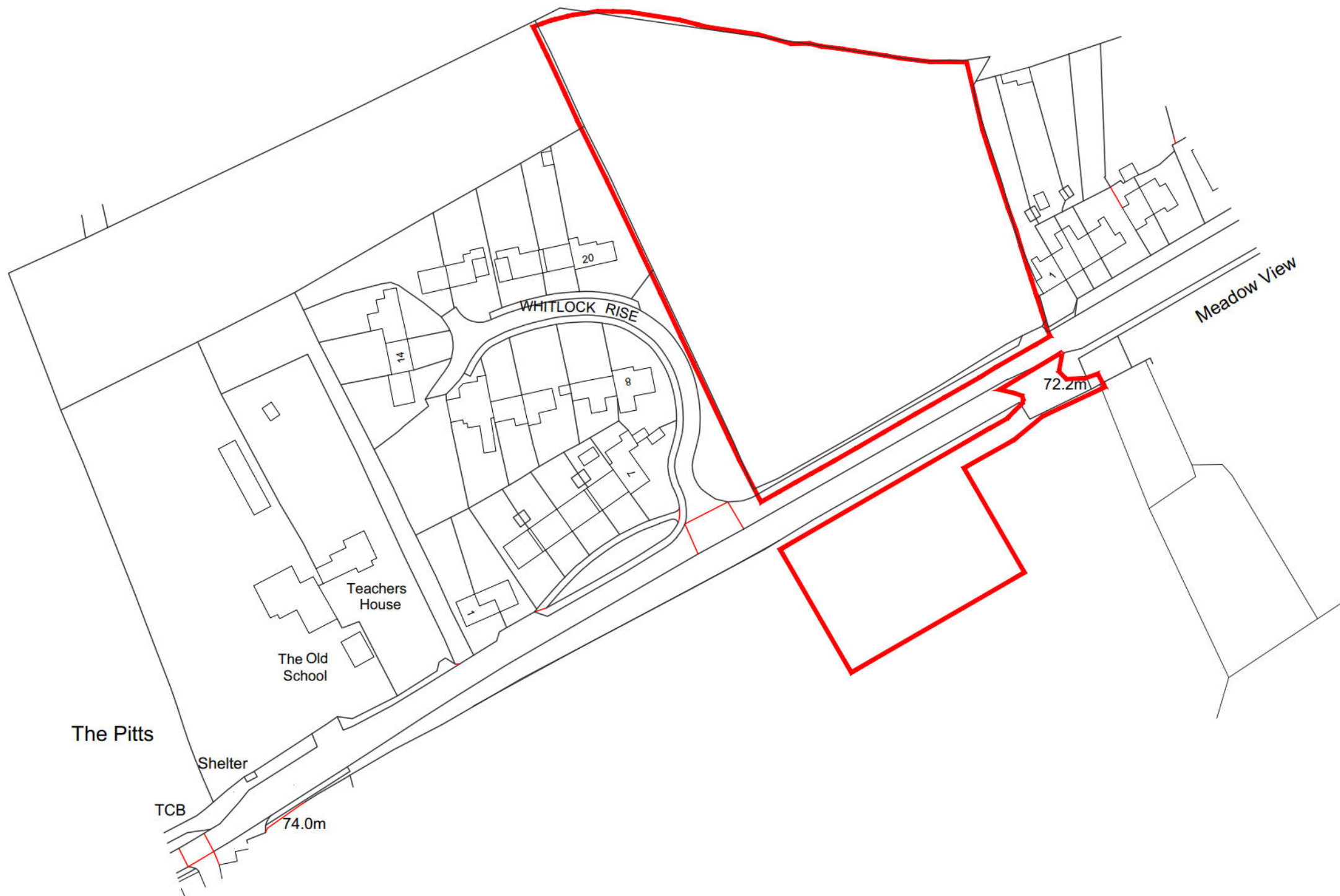
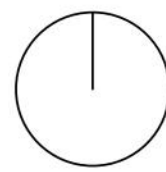
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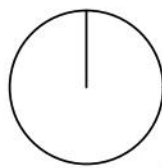
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Location Plan  
1:1250

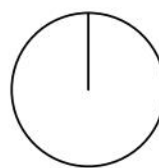


EXISTING Site Block Plan  
1:500



TOTAL SITE AREA  
Area 1.057Ha

PROPOSED Site Block Plan  
1:500



BIODIVERSITY &  
WILDLIFE ZONE  
Area 0.31Ha

NEW DWELLINGS  
Area 0.74Ha

LAND TO SOUTH  
Area 0.24Ha



**BIODIVERISTY AREA**  
North-most section of site to be retained and managed for the purpose of biodiversity and wildlife

**RETAINING WALL**  
Face brick retaining wall to west edge with dense screen planting

**LOW RETAINING WALL**  
Face brick retaining wall between plot 07 & 08

**SLOPED BANKS**  
All sloped banks across site to be planted with native mixed shrubs and grasses to provide naturalistic visual landscape setting and enhance privacy and wildlife

**NEW PERIMETER PLANTING**  
New indigenous perimeter mixed hedge, shrub and tree species around new development, to provide privacy and enhance biodiversity

**VEHICLE ACCESS**  
New vehicular access and visibility splay see highways report

**NEW & EXISTING HEDGE**  
Retain/prune existing hedge where required as landscape plans | New native mixed hedge, shrub and tree species set back from footpath edge/frontage to enhance biodiversity and privacy

**MEADOW SWATHES**  
Native meadow swathe planting to edge of BNG area to provide transition to domestic garden

**EXISTING TREES**  
Manage and retain existing Ash Trees to edge of cutting - subject to arboriculturalist

**MEADOW SWATHES**  
Native meadow swathe planting to open areas to enhance wildlife

**PEDESTRIAN ACCESS**  
New footpath created to link housing with bus stop

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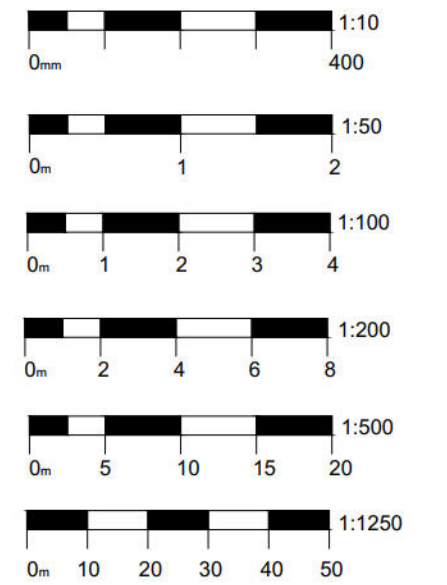
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A Highways/Landscape updates 26.01.26  
Rev Comment Date

Project: New Dwellings  
Land at Bishopstone,  
Salisbury, Wiltshire

Client: Cherrington Planning

Drawing Title: Proposed Site Plan

Job No: 250821  
Drawn: RM | NH  
Date: 16.01.2026  
Scale: as indicated @ A1

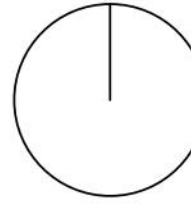
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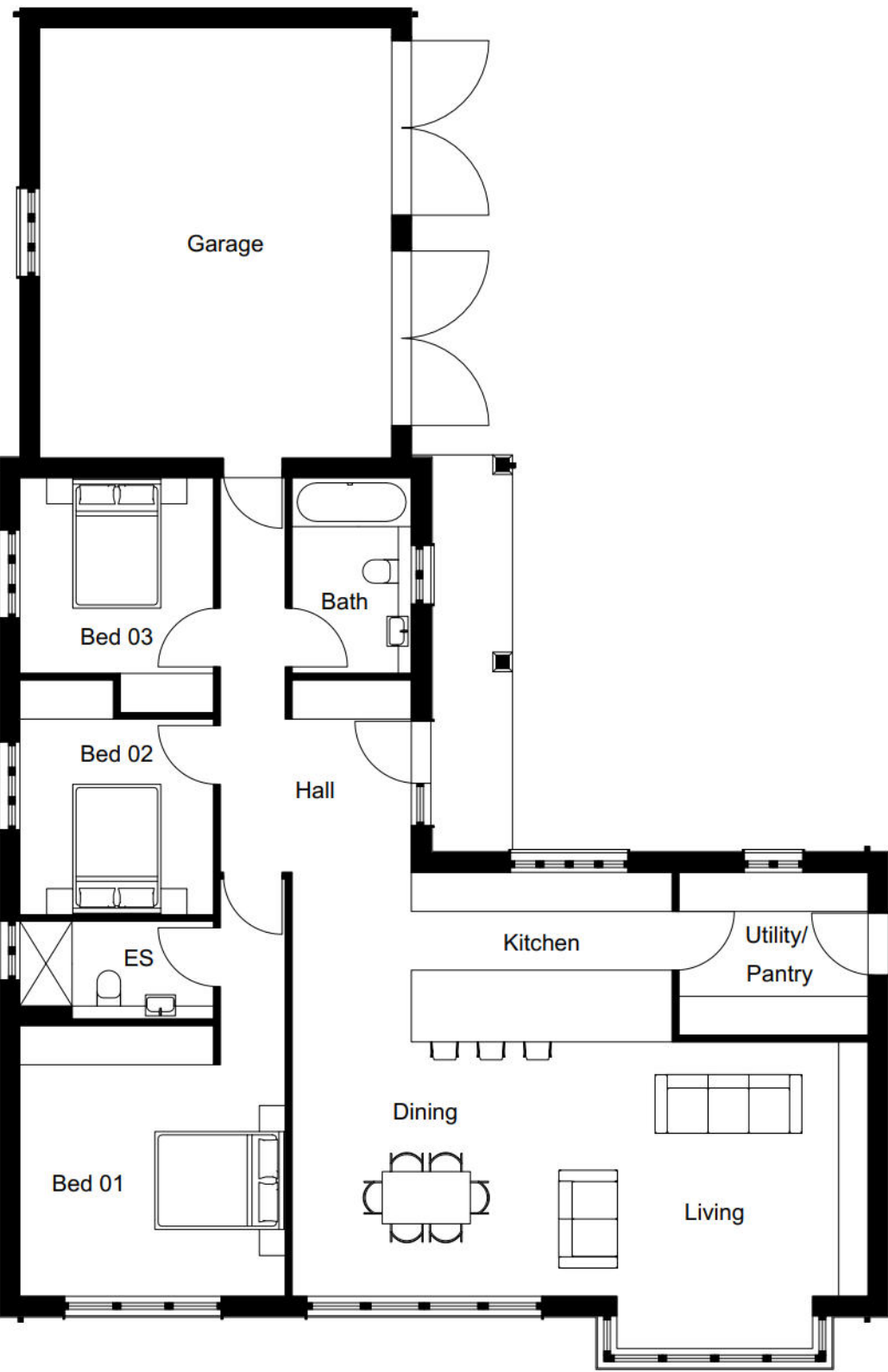
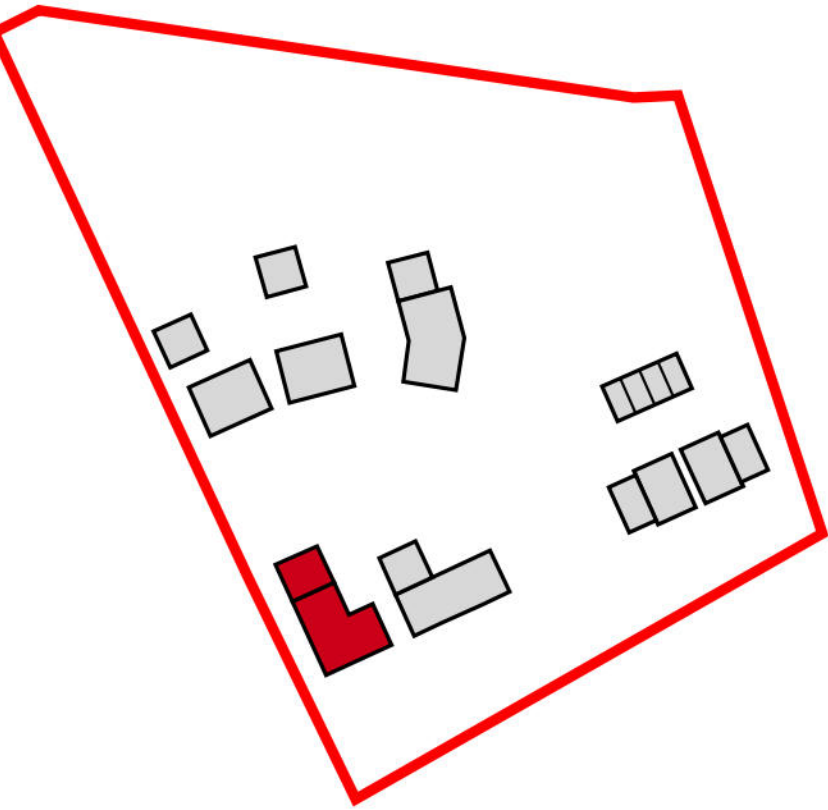
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Proposed Site Plan  
1:200



UNIT 1



Proposed Ground Floor Plan  
1:100



Proposed North Elevation  
1:100



Proposed East Elevation  
1:100



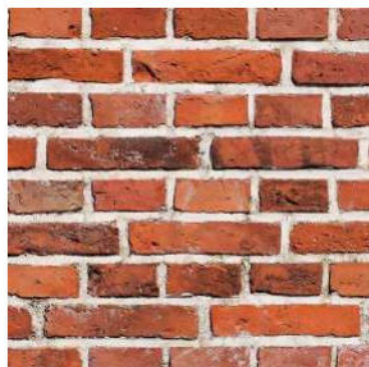
Proposed South Elevation  
1:100



Proposed West Elevation  
1:100



Knapped flint



Red clay brick



Dark stained horizontal  
weatherboard cladding



Plain clay tiles



Natural slates

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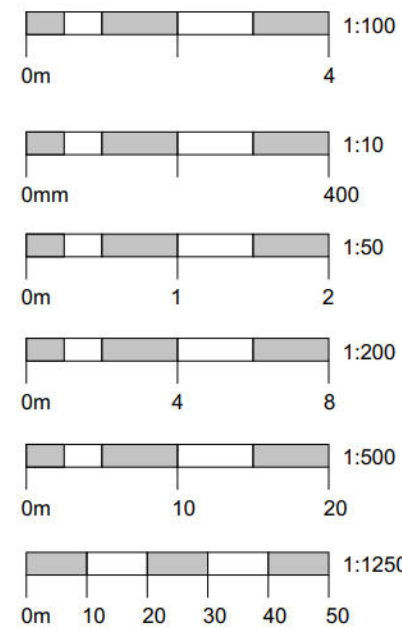
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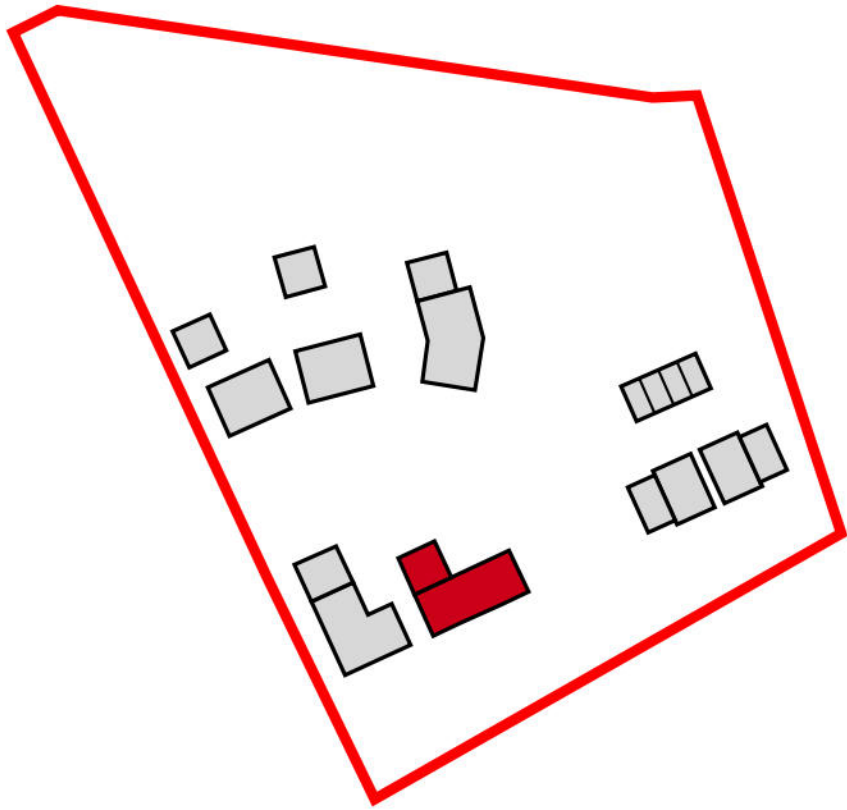


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| Drawing Title: | Units 1 Plans & Elevations                                    |      |
| Job No:        | 250821                                                        |      |
| Drawn:         | RM   NH                                                       |      |
| Date:          | 14.01.2026                                                    |      |
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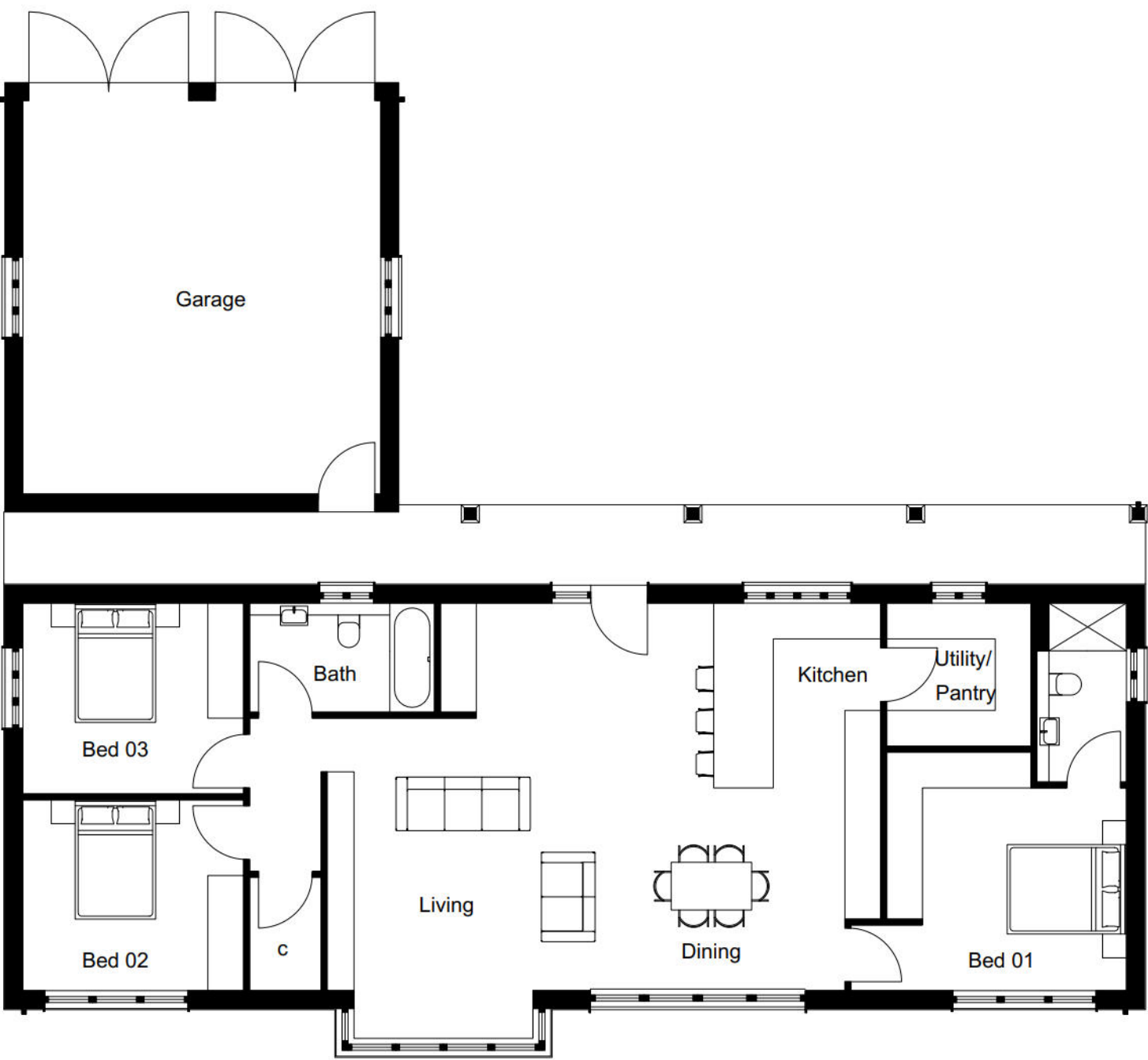
UNIT 2



Proposed North Elevation  
1:100



Proposed East Elevation  
1:100



Proposed Ground Floor Plan  
1:100



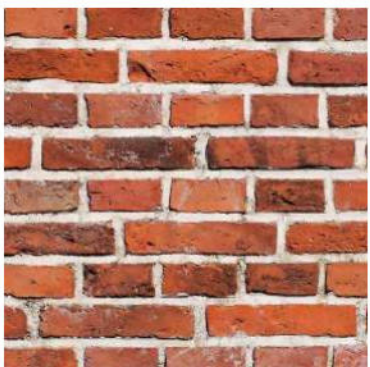
Proposed South Elevation  
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Proposed West Elevation  
1:100



Knapped flint



Red clay brick



Dark stained horizontal  
weatherboard cladding



Natural slates

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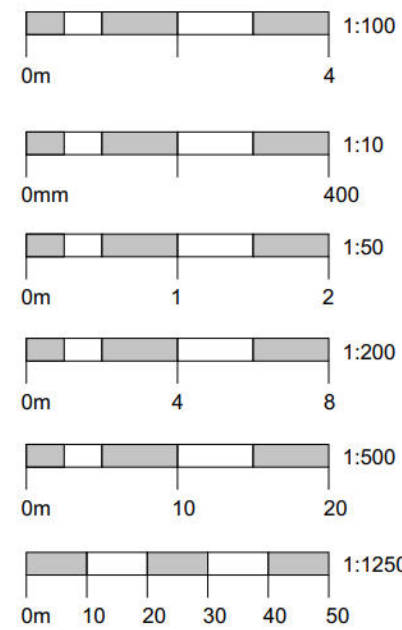
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|----------|---------------------------------------------------------------|
| Project: | New Dwellings<br>Land at Bishopstone,<br>Salisbury, Wiltshire |
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| Drawing Title: | Unit 2 Plans & Elevations |

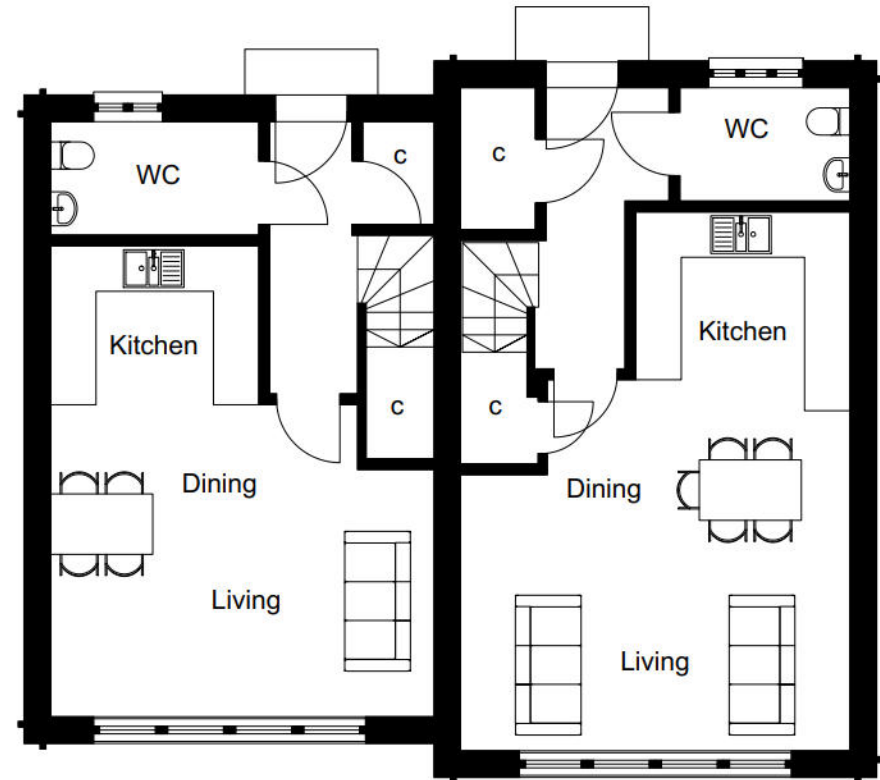
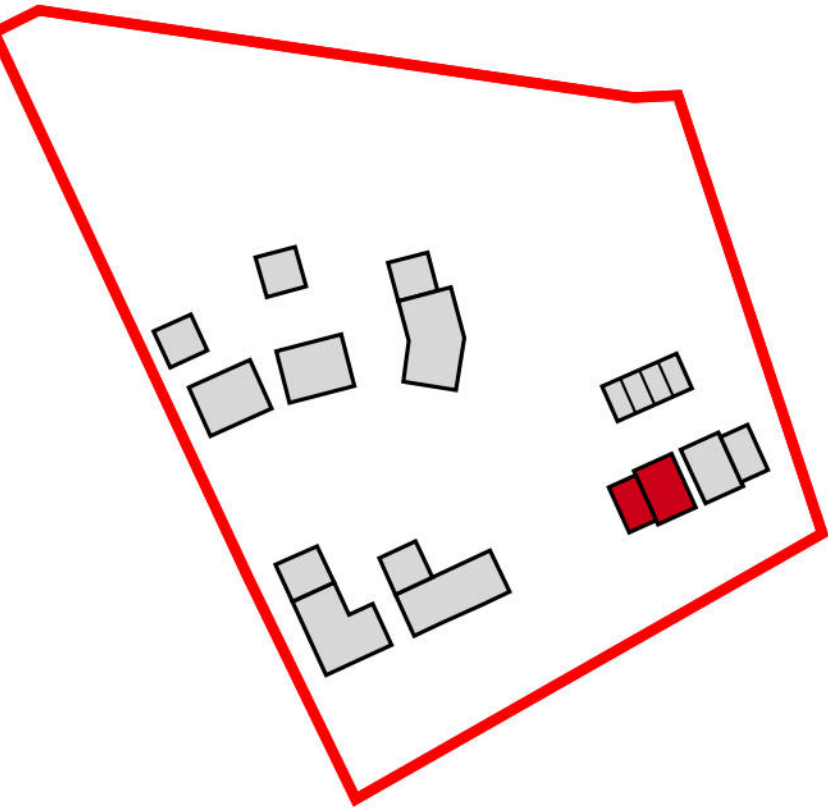
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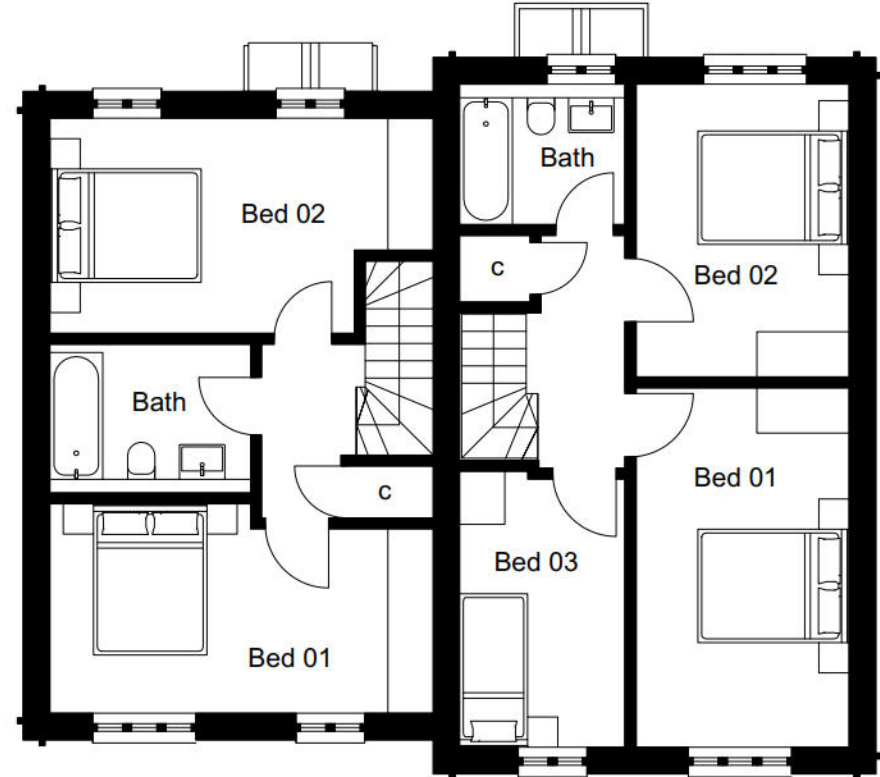
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UNIT 3 & 4



Proposed Ground Floor Plan  
1:100



Proposed First Floor Plan  
1:100



Proposed North Elevation  
1:100



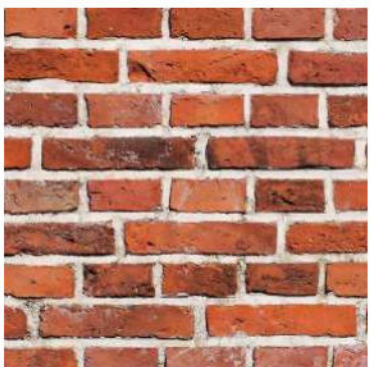
Proposed East Elevation  
1:100



Proposed South Elevation  
1:100



Proposed West Elevation  
1:100



Red clay brick



Textured render



Plain clay tiles

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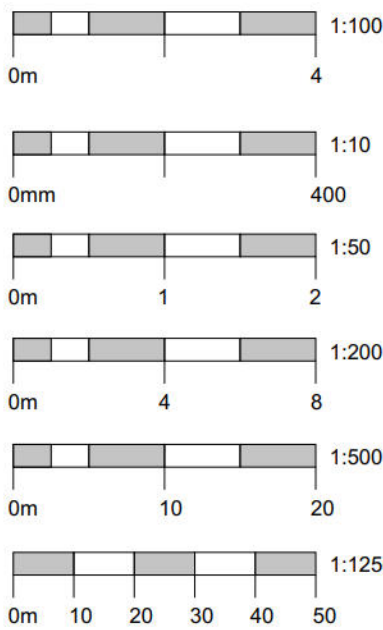
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|                |                                |
|----------------|--------------------------------|
| Client:        | Cherrington Planning           |
| Drawing Title: | Units 3 & 4 Plans & Elevations |

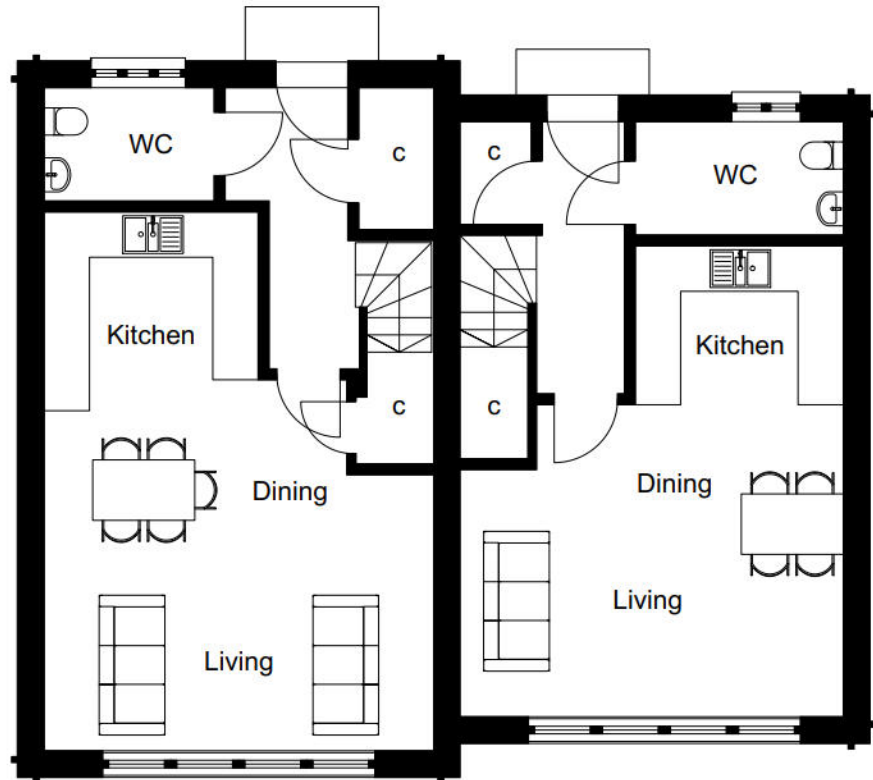
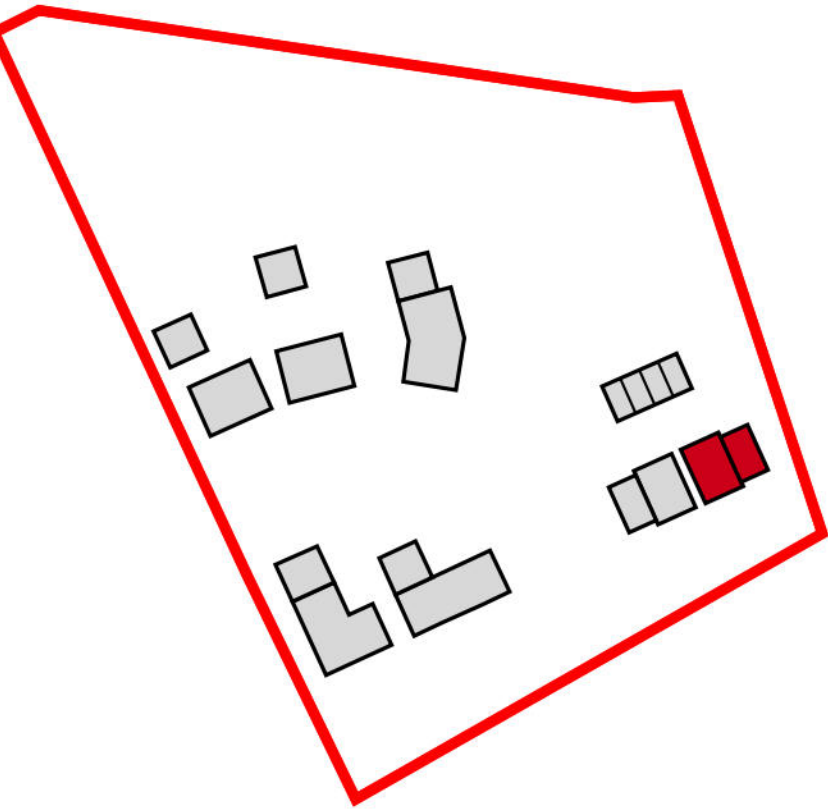
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|---------|-------------------|
| Job No: | 250821            |
| Drawn:  | RM   NH           |
| Date:   | 14.01.2026        |
| Scale:  | As Indicated @ A1 |

|             |      |
|-------------|------|
| Drawing No: | PL05 |
| Rev:        |      |

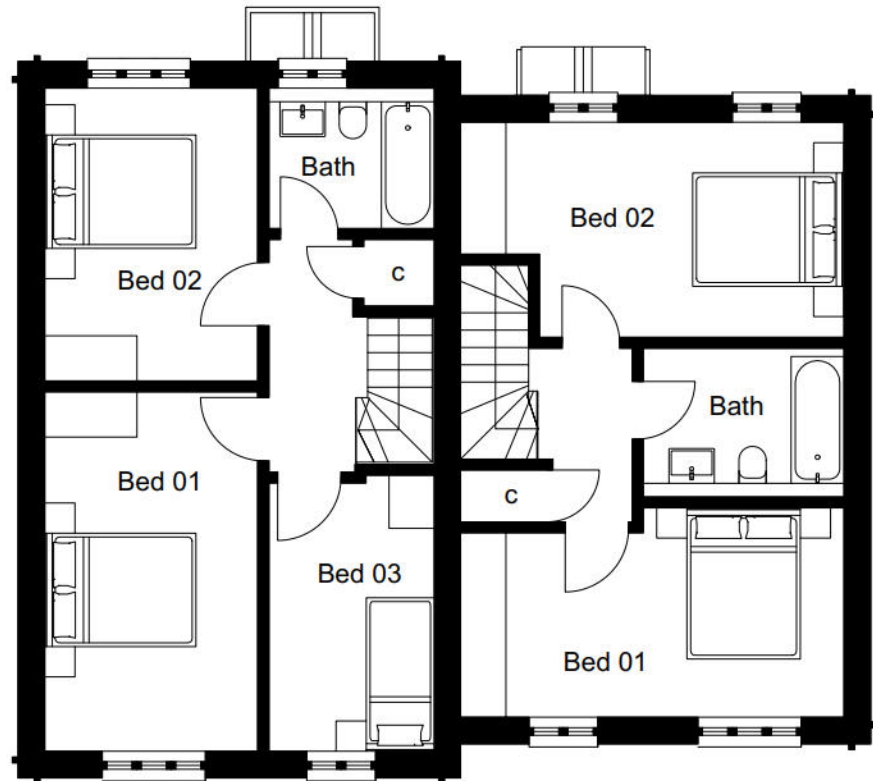
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UNIT 5 & 6



Proposed Ground Floor Plan  
1:100



Proposed First Floor Plan  
1:100



Proposed North Elevation  
1:100



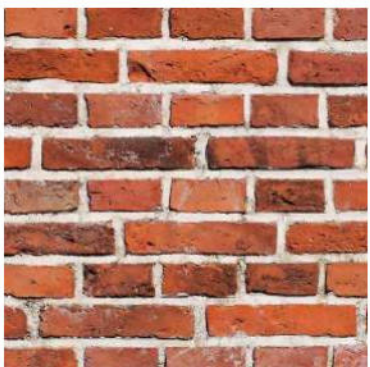
Proposed East Elevation  
1:100



Proposed South Elevation  
1:100



Proposed West Elevation  
1:100



Red clay brick



Textured render



Plain clay tiles

PLANNING

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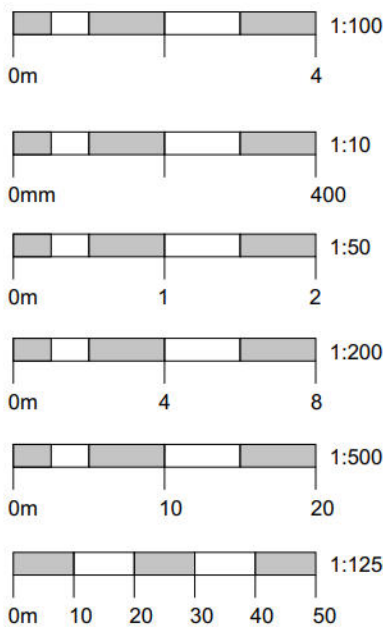
DESIGNERS RISK ASSESSMENT:  
HEALTH AND SAFETY  
THE CONSTRUCTION (DESIGN AND  
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Building Products and Construction Execution  
Hazards

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| REV | COMMENT | DATE |
|-----|---------|------|
|-----|---------|------|

|          |                                                               |
|----------|---------------------------------------------------------------|
| Project: | New Dwellings<br>Land at Bishopstone,<br>Salisbury, Wiltshire |
|----------|---------------------------------------------------------------|

|                |                                |
|----------------|--------------------------------|
| Client:        | Cherrington Planning           |
| Drawing Title: | Units 5 & 6 Plans & Elevations |

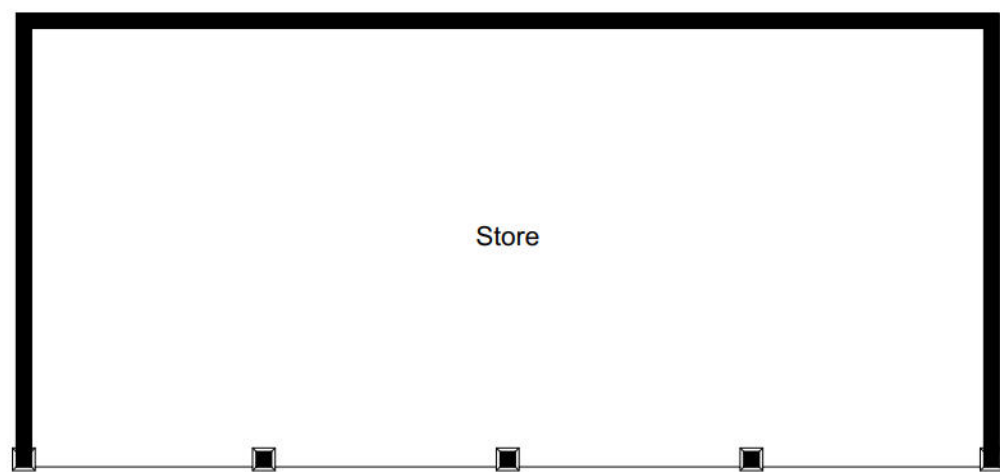
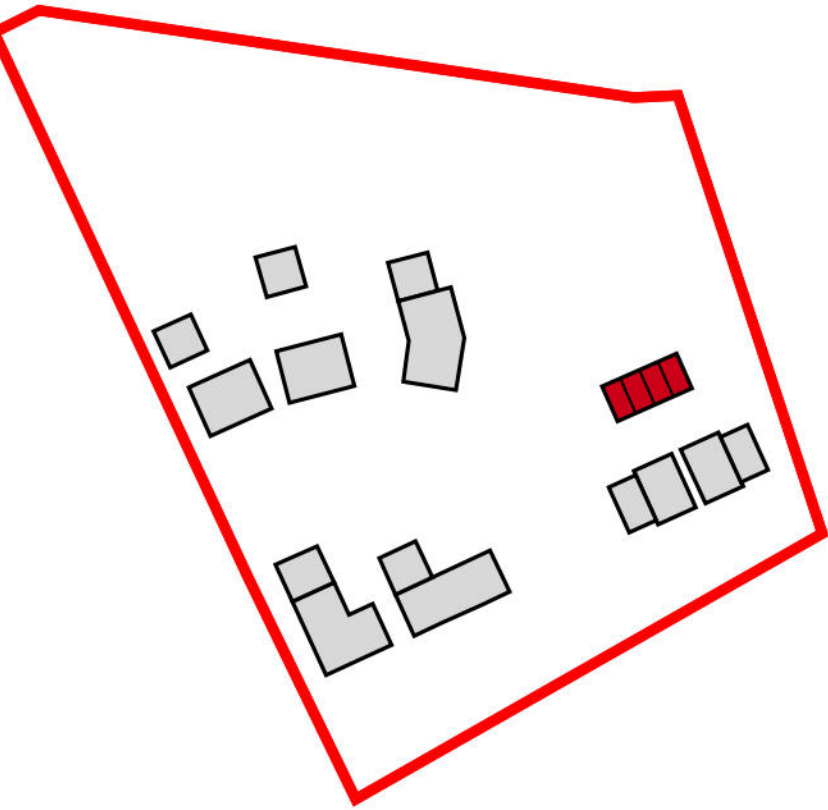
|         |                   |
|---------|-------------------|
| Job No: | 250821            |
| Drawn:  | RM   NH           |
| Date:   | 14.01.2026        |
| Scale:  | As Indicated @ A1 |

|             |      |
|-------------|------|
| Drawing No: | PL06 |
| Rev:        |      |

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COMMUNAL STORE



Proposed Floor Plan  
1:100



Proposed North Elevation  
1:100



Proposed East Elevation  
1:100



Proposed South Elevation  
1:100



Proposed West Elevation  
1:100



Dark stained horizontal  
weatherboard cladding



Plain clay tiles

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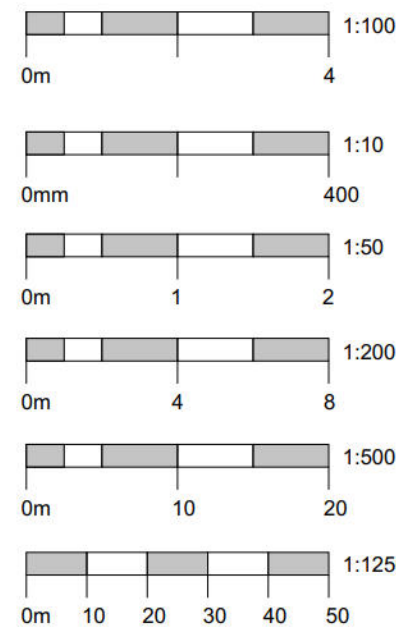
DESIGNERS RISK ASSESSMENT:  
HEALTH AND SAFETY  
THE CONSTRUCTION (DESIGN AND  
MANAGEMENT) REGULATIONS 2007

Building Products and Construction Execution  
Hazards

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THESE ARE NOT FOR CONSTRUCTION  
PURPOSES

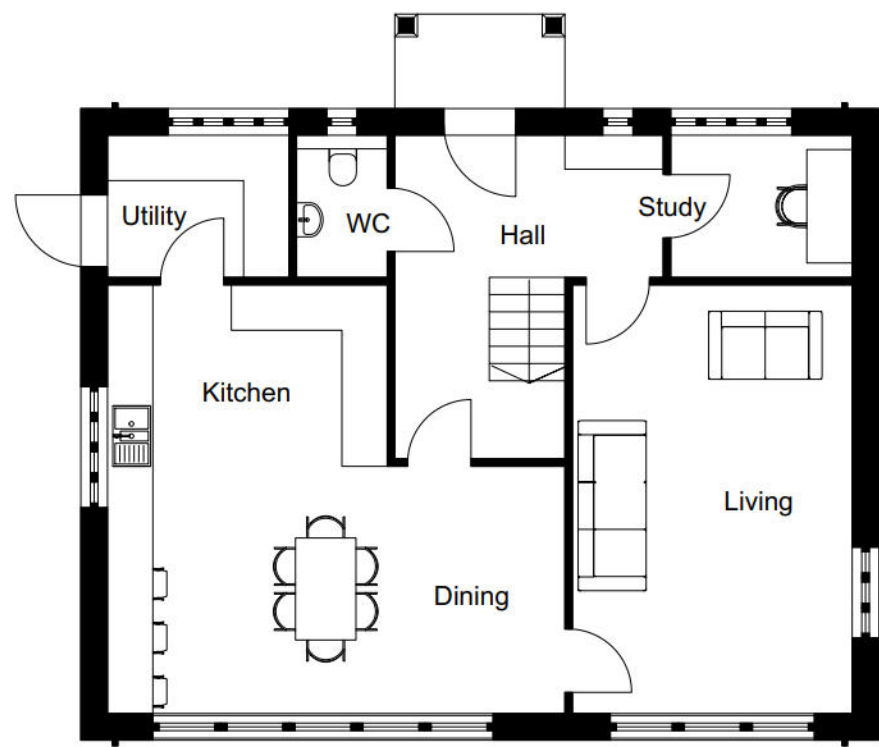
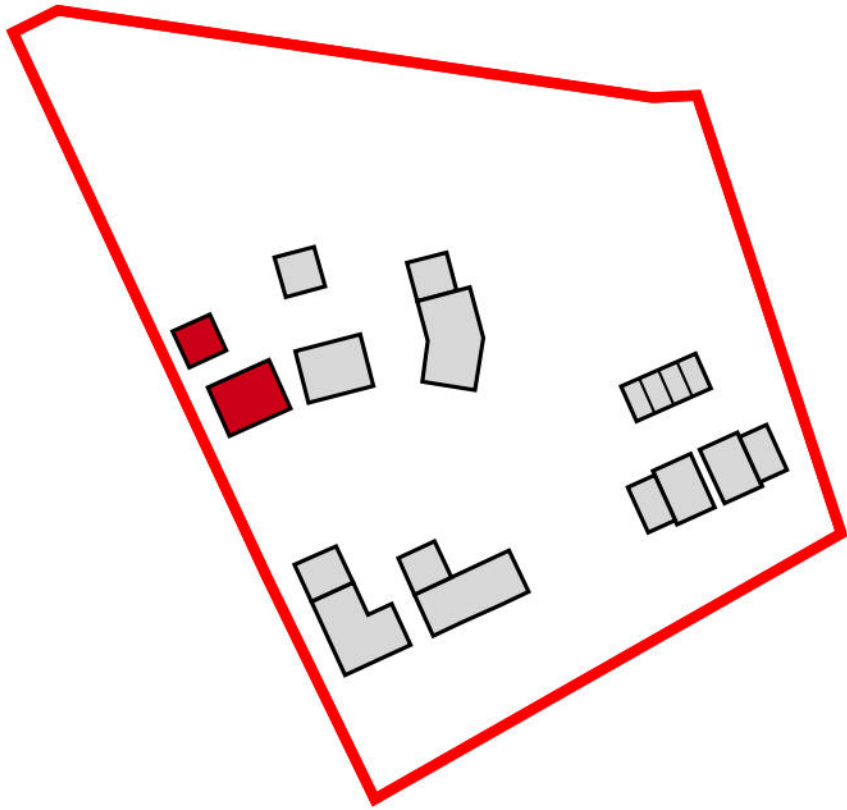


| REV            | COMMENT                                                       | DATE |
|----------------|---------------------------------------------------------------|------|
| Project:       | New Dwellings<br>Land at Bishopstone,<br>Salisbury, Wiltshire |      |
| Client:        | Cherrington Planning                                          |      |
| Drawing Title: | Communal Store Plans & Elevations                             |      |
| Job No:        | 250821                                                        |      |
| Drawn:         | RM   NH                                                       |      |
| Date:          | 14.01.2026                                                    |      |
| Scale:         | As Indicated @ A1                                             |      |
| Drawing No:    | PL07                                                          |      |
| Rev:           |                                                               |      |

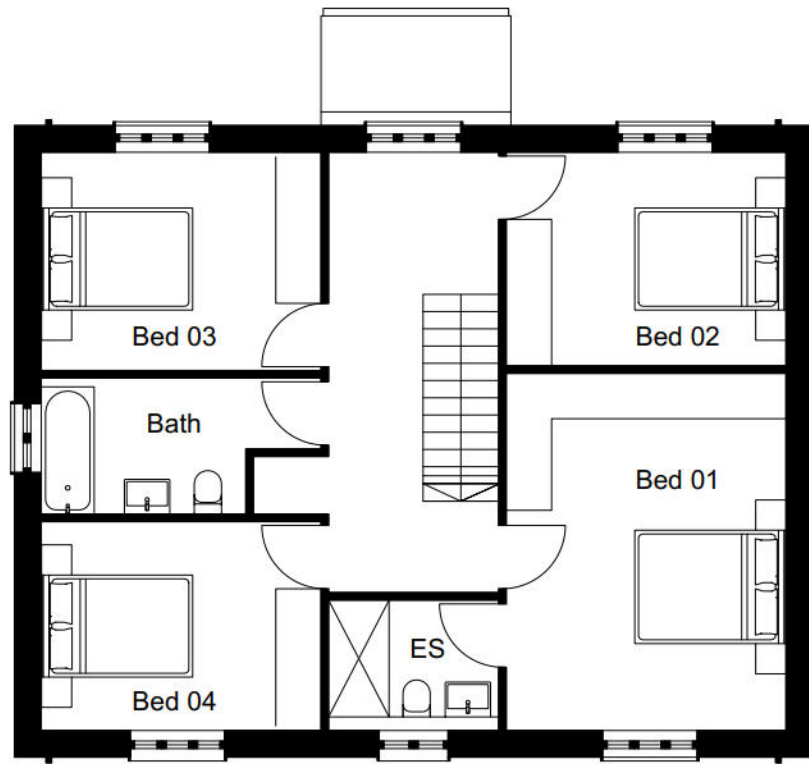
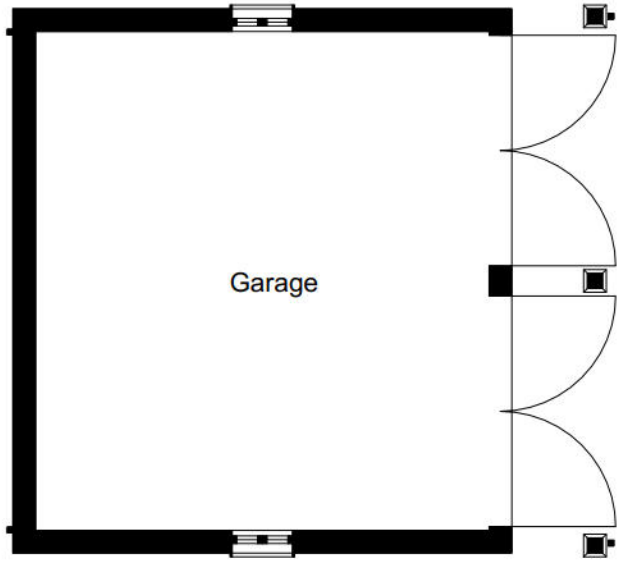
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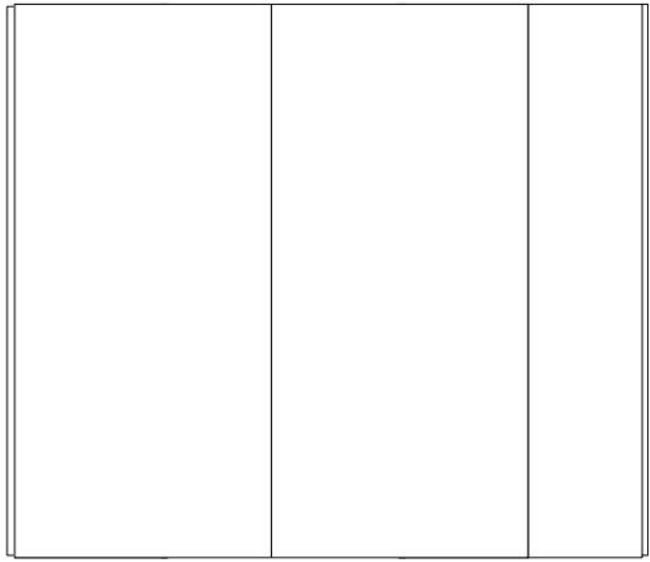
UNIT 7



Proposed Ground Floor Plan  
1:100



Proposed First Floor Plan  
1:100



Proposed North Elevation  
1:100



Proposed East Elevation  
1:100



Proposed East Garage Elevation  
1:100



Proposed North Garage Elevation  
1:100



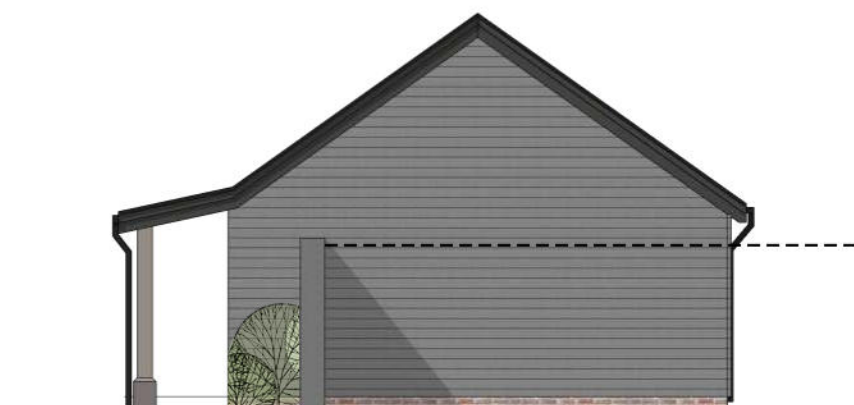
Proposed South Elevation  
1:100



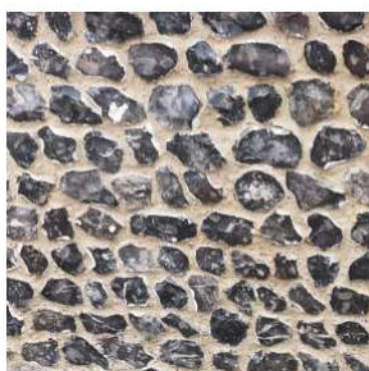
Proposed West Elevation  
1:100



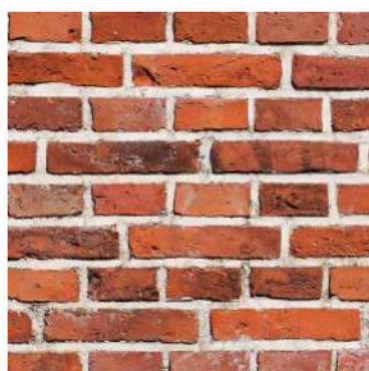
Proposed West Garage Elevation  
1:100



Proposed South Garage Elevation  
1:100



Knapped flint



Red clay brick



Dark stained horizontal  
weatherboard cladding



Plain clay tiles



Natural slates

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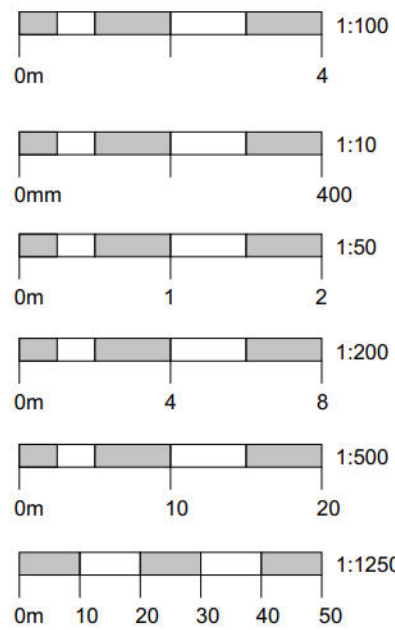
DESIGNERS RISK ASSESSMENT:  
HEALTH AND SAFETY  
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Hazards

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REV COMMENT DATE

Project: New Dwellings  
Land at Bishopstone,  
Salisbury, Wiltshire

Client: Cherrington Planning  
Drawing Title: Unit 7 Plans & Elevations

Job No: 250821  
Drawn: RM | NH  
Date: 14.01.2026  
Scale: As Indicated @ A1

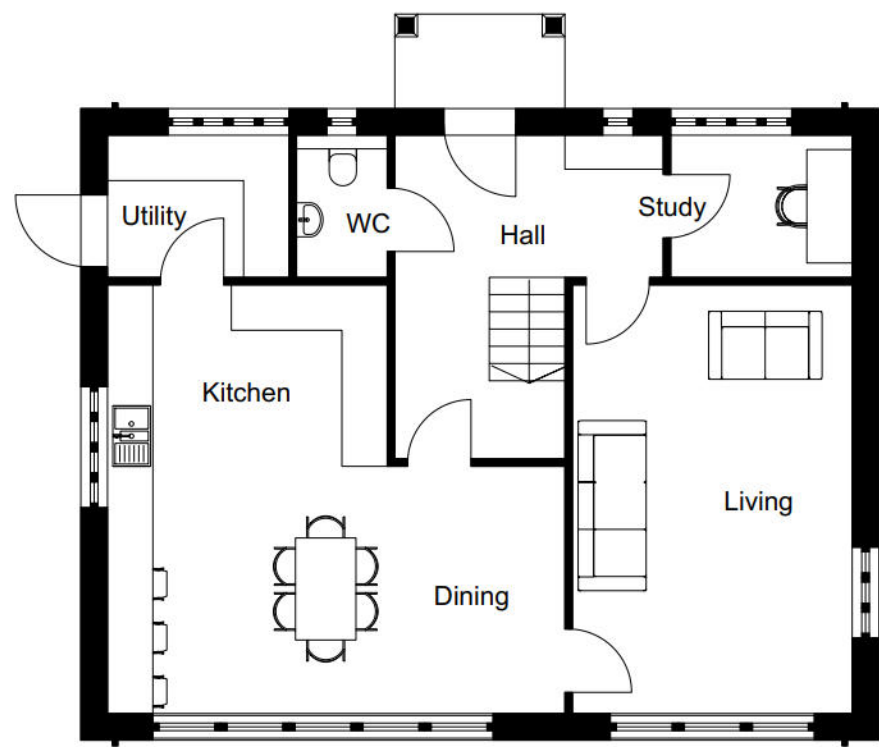
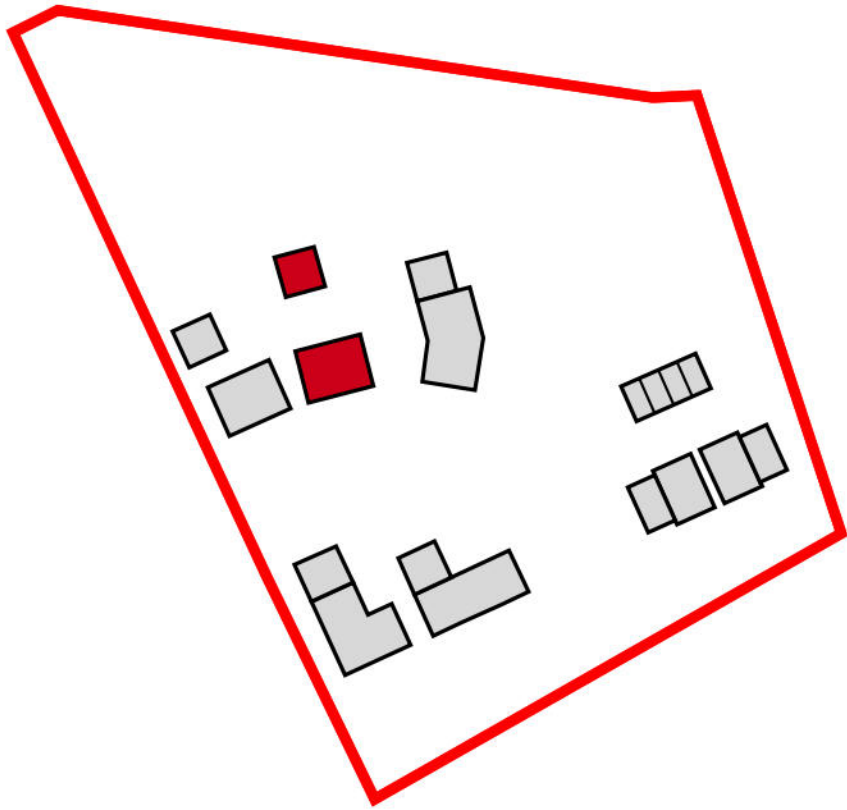
Drawing No: PL08

Rev:

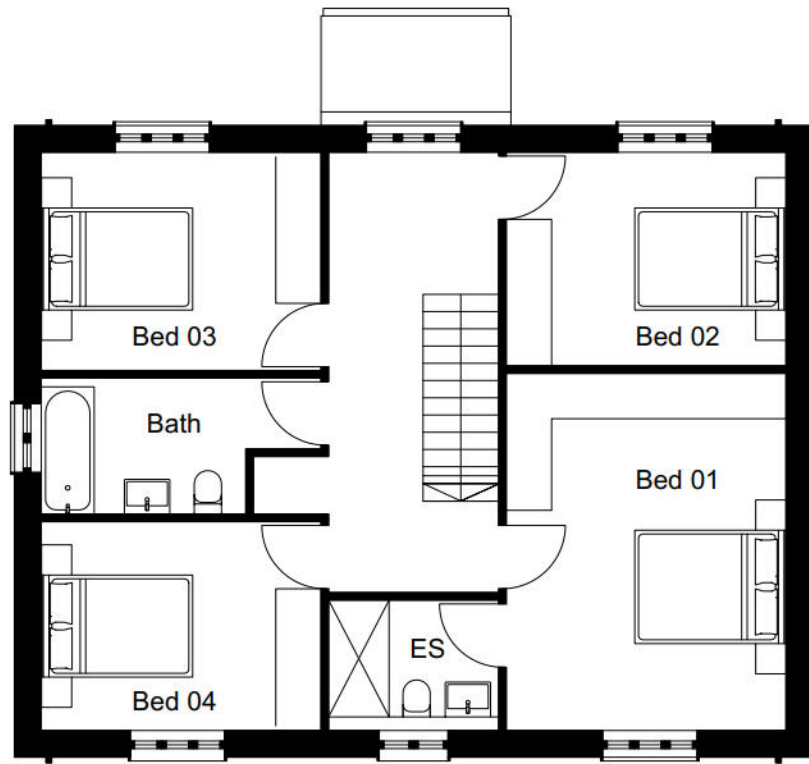
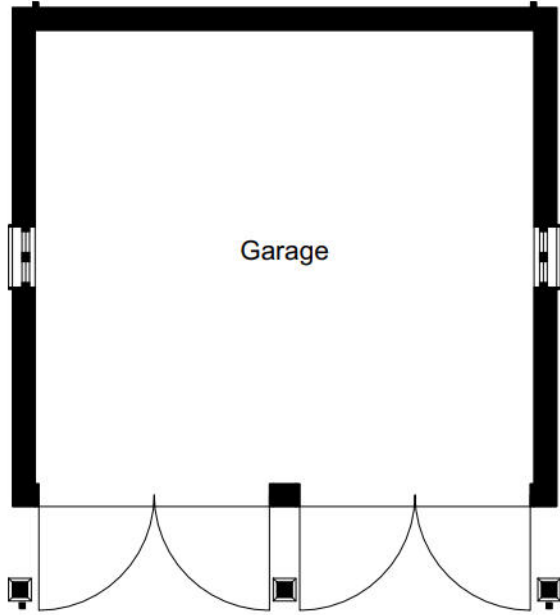
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UNIT 8



Proposed Ground Floor Plan  
1:100



Proposed First Floor Plan  
1:100



Proposed North Elevation  
1:100



Proposed East Elevation  
1:100



Proposed South Garage Elevation  
1:100



Proposed East Garage Elevation  
1:100



Proposed South Elevation  
1:100



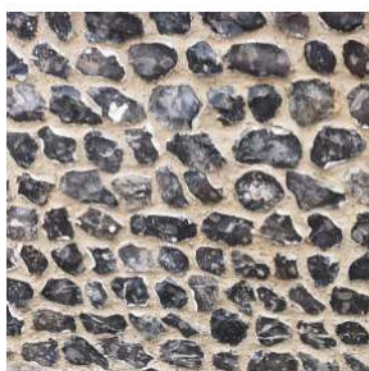
Proposed West Elevation  
1:100



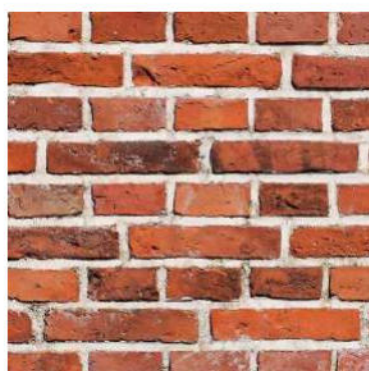
Proposed North Garage Elevation  
1:100



Proposed West Garage Elevation  
1:100



Knapped flint



Red clay brick



Dark stained horizontal  
weatherboard cladding



Plain clay tiles



Natural slates

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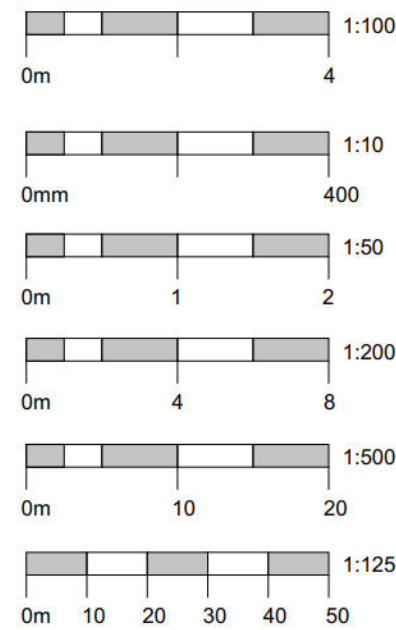
DESIGNERS RISK ASSESSMENT:  
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REV COMMENT DATE

Project: New Dwellings  
Land at Bishopstone,  
Salisbury, Wiltshire

Client: Cherrington Planning  
Drawing Title: Unit 8 Plans & Elevations

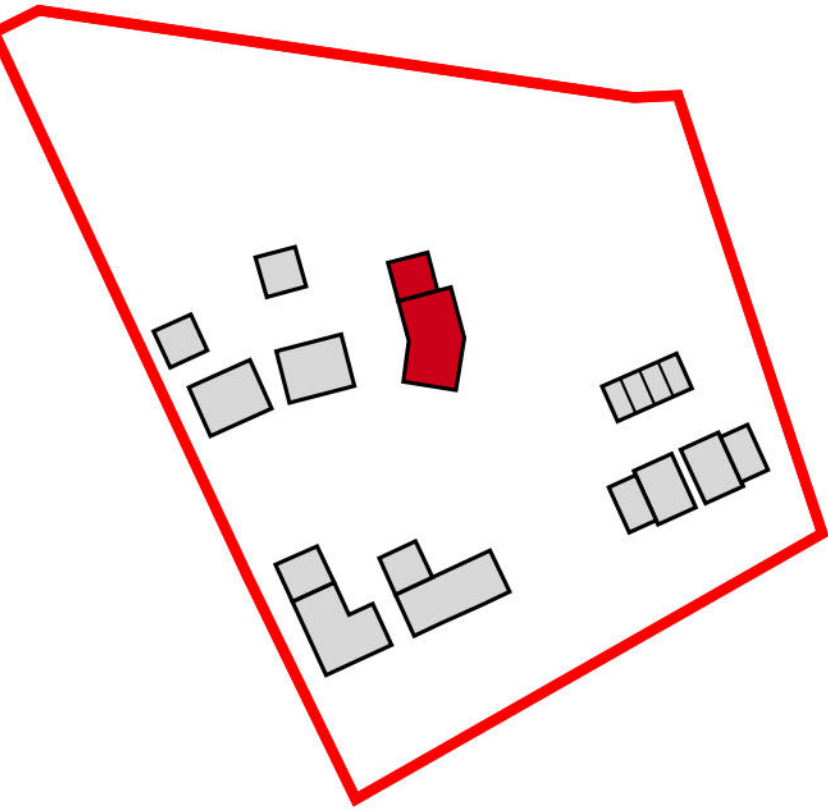
Job No: 250821  
Drawn: RM | NH  
Date: 14.01.2026  
Scale: As Indicated @ A1

Drawing No: PL09  
Rev:

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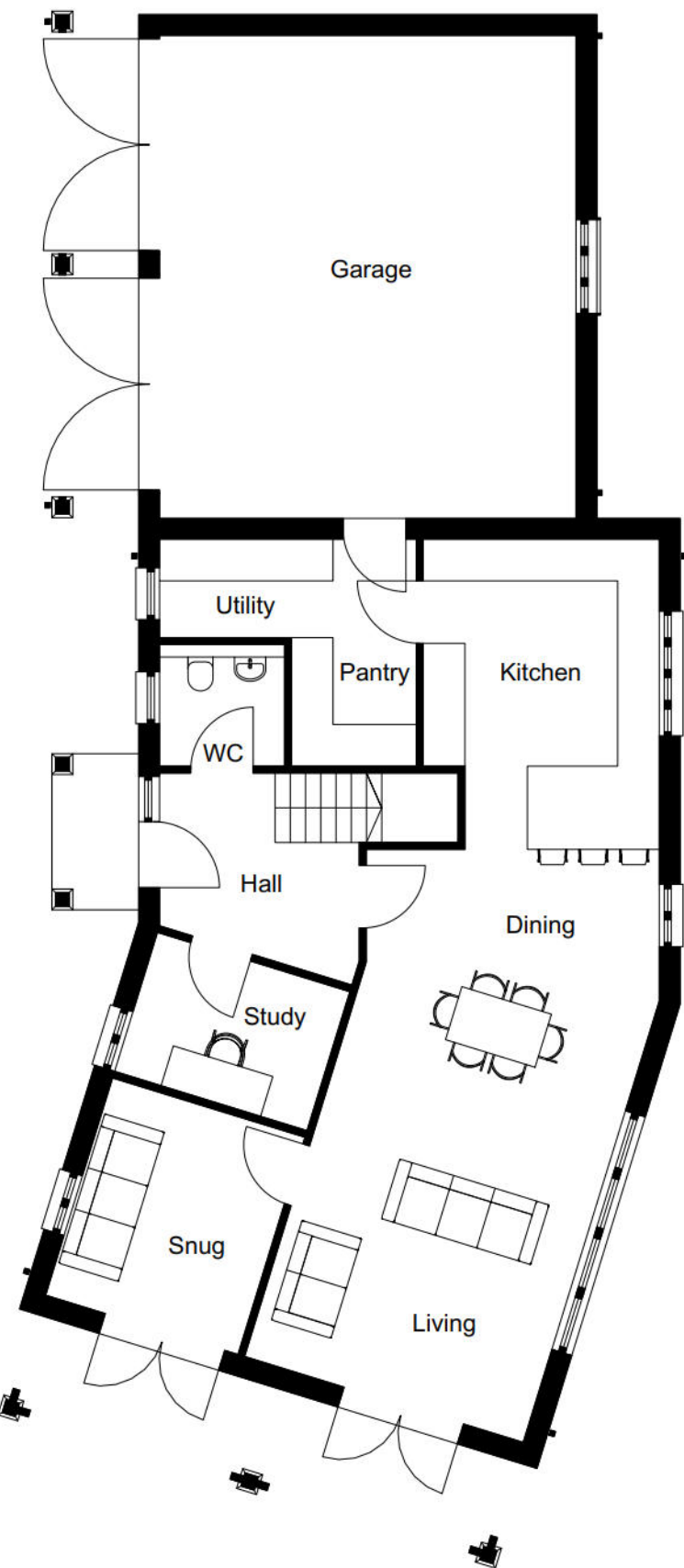
UNIT 9



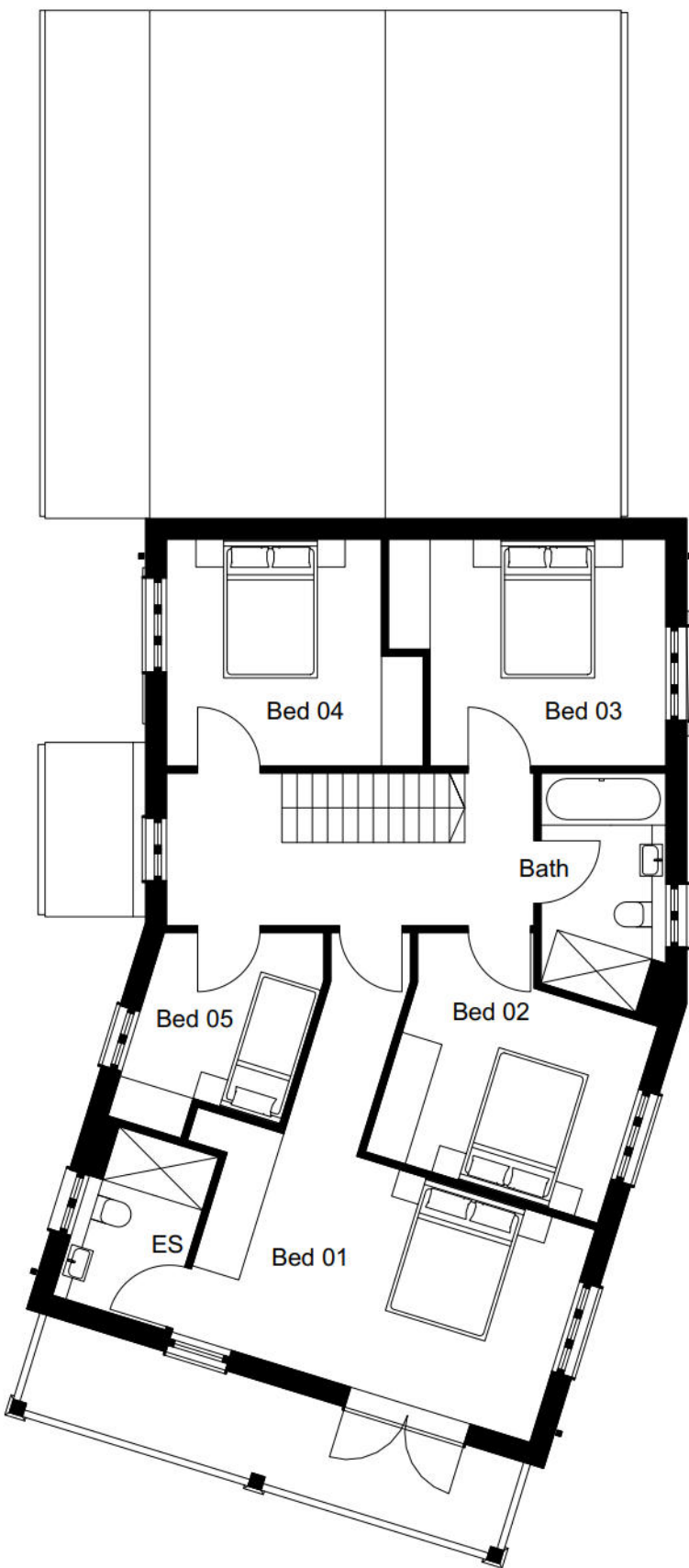
Proposed West Elevation  
1:100



Proposed East Elevation  
1:100



Proposed Ground Floor Plan  
1:100



Proposed First Floor Plan  
1:100



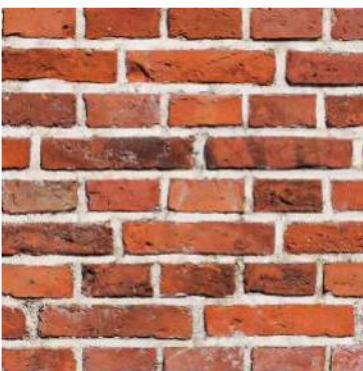
Proposed South Elevation  
1:100



Proposed North Elevation  
1:100



Knapped flint



Red clay brick



Dark stained horizontal  
weatherboard cladding



Plain clay tiles



Natural slates

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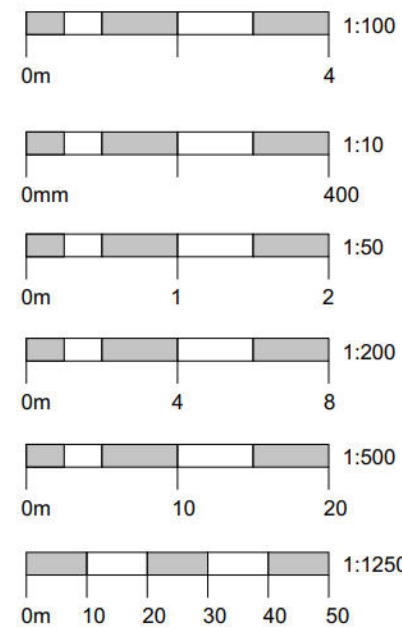
DESIGNERS RISK ASSESSMENT:  
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THE CONSTRUCTION (DESIGN AND  
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Building Products and Construction Execution  
Hazards

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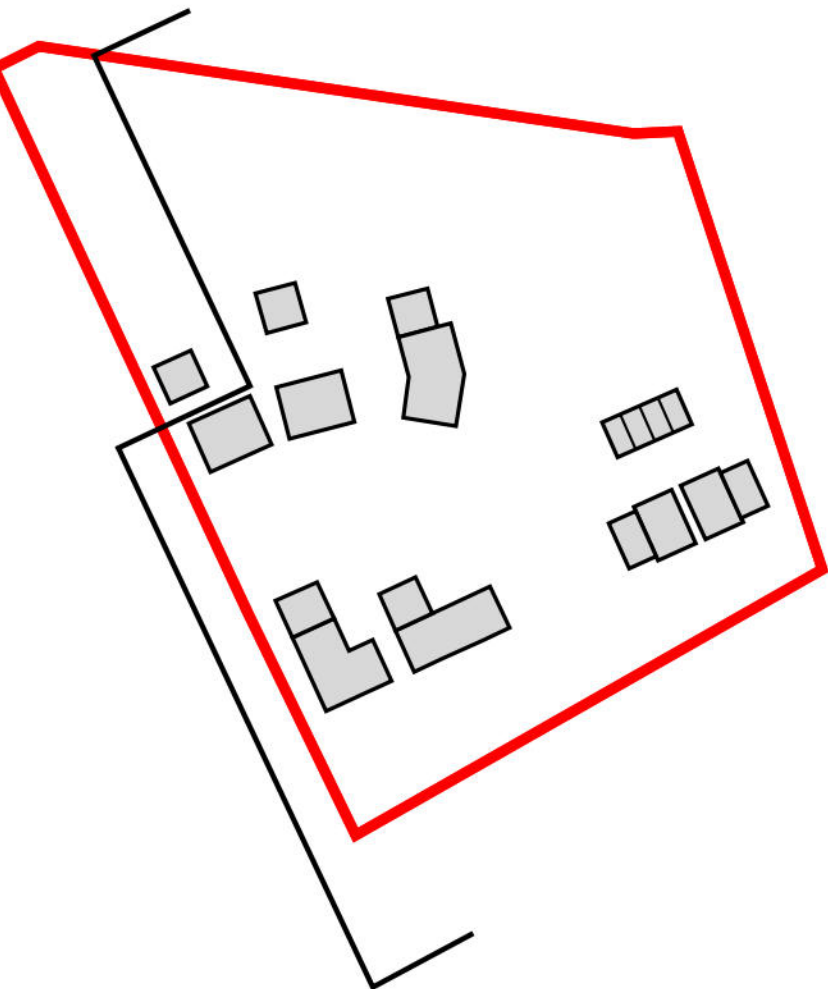


| REV            | COMMENT                                                       | DATE |
|----------------|---------------------------------------------------------------|------|
| Project:       | New Dwellings<br>Land at Bishopstone,<br>Salisbury, Wiltshire |      |
| Client:        | Cherrington Planning                                          |      |
| Drawing Title: | Unit 9 Plans & Elevations                                     |      |
| Job No:        | 250821                                                        |      |
| Drawn:         | RM   NH                                                       |      |
| Date:          | 14.01.2026                                                    |      |
| Scale:         | As Indicated @ A1                                             |      |
| Drawing No:    | PL010                                                         |      |
| Rev:           |                                                               |      |

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SITE SECTION



Section Key  
NOT TO SCALE



Proposed Site Section  
1:200

--- Existing Ground Line

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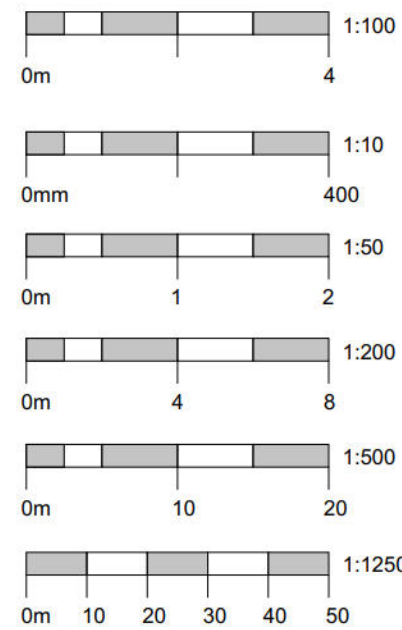
DESIGNERS RISK ASSESSMENT:  
HEALTH AND SAFETY  
THE CONSTRUCTION (DESIGN AND  
MANAGEMENT) REGULATIONS 2007

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| REV            | COMMENT                                                       | DATE |
|----------------|---------------------------------------------------------------|------|
| Project:       | New Dwellings<br>Land at Bishopstone,<br>Salisbury, Wiltshire |      |
| Client:        | Cherrington Planning                                          |      |
| Drawing Title: | Proposed Site Section                                         |      |
| Job No:        | 250821                                                        |      |
| Drawn:         | RM   NH                                                       |      |
| Date:          | 14.01.2026                                                    |      |
| Scale:         | As Indicated @ A1                                             |      |
| Drawing No:    | PL011                                                         |      |
| Rev:           |                                                               |      |

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## **APPENDIX 264/NNAMS/A2**

### **Nutrient Calculations**

| Nutrients from wastewater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------|
| <p>This sheet contains 2 tables. The tables are separated by a heading, which describes the following table.</p> <p><b>Note:</b> You will need to fill in cells B5 to B9 in the first table 'Water infrastructure information'. Cells B10 to B12 are automatically calculated and will state '0.00' unless the user inputs have been entered. Cells A11 to A12 and B11 to B12 are automatically generated and will state 'Not applicable' depending on the inputs to cells B5 and B9. You may need to fill in cell C10 depending on the information you entered in cell B9. Cells C5 to C9 and cells C11 to C12 are intentionally blank cells.</p> <p>You do not need to fill in any cells in the second table 'Final calculation of nutrient load from wastewater'. Cells B16 to B18 are automatically calculated and will state '0.00' unless the user inputs have been entered to the first table 'Water infrastructure information'. Cells A19 to A22, cells B20 and B22 are automatically generated and will state 'Not applicable' depending on the user inputs to the first table 'Water infrastructure information'. Cell B15, cell B19 and cell B21 are intentionally blank cells.</p> <p><b>How to fill in the table 'Water infrastructure information'</b></p> <p>Cell B5: Enter the date of first occupancy.</p> <p>Cell B6: Enter the average occupancy rate of the development. The default rate is 2.4, this should not be edited without sufficient evidence.</p> <p>Cell B7: Enter the water usage. This value should be kept at 120 unless other efficiency measures are used.</p> <p>Cell B8: Enter the total number of dwellings or units that will be within the development site as of the project completion date.</p> <p>Cell B9: Choose the receiving wastewater treatment works (WwTW) from the dropdown list.</p> <p>If you select 'Package Treatment Plant user defined' or 'Septic Tank user defined', you must enter their certified value of total phosphorus (TP) in cell C10. Otherwise the default values will be used in the calculation of the nutrient load associated with wastewater.</p> <p>Nutrient permits may be changing for the WwTW you select, from 01/01/2025, or 01/04/2030. If the date of first occupancy is in-between changing permit dates, multiple permit limits may be automatically generated in cells B10 to B12. If applicable, up to 3 values for the nutrient loading associated with wastewater will be presented in cell B18, B20 or B22.</p> |                                          |                                                            |
| Water infrastructure information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                            |
| Description of required information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Data entry column - user inputs required | Additional data entry column - user inputs may be required |
| Date of first occupancy (dd/mm/yyyy):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |                                                            |
| Average occupancy rate (people/dwelling or people/unit):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2.40                                     |                                                            |
| Water usage (litres/person/day):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 95                                       |                                                            |
| Development proposal (dwellings/units):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9                                        |                                                            |
| Wastewater treatment works:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Package Treatment Plant user defined     |                                                            |
| Current wastewater treatment works P permit (mg TP/litre):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Enter value in cell C10                  | 0.6                                                        |
| Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                           |                                                            |
| Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                           |                                                            |
| Final calculation of nutrient load from wastewater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                                            |
| Description of values generated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Values generated                         |                                                            |
| Wastewater nutrient loading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                                            |
| Additional population (people):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21.60                                    |                                                            |
| Wastewater by development (litres/day):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2052.00                                  |                                                            |
| Annual wastewater TP load (kg TP/yr):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.45                                     |                                                            |
| Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                            |
| Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                           |                                                            |
| Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                            |
| Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                           |                                                            |

## Nutrients from current land use

This sheet contains 21 tables. The tables are separated by a heading, which describes the following table.

**Note:** You will need to fill in cells B5 to B8 in the first table 'Current land use information'. You will need to fill in cells A11 to A27, and B11 to B27 in the second table 'Current land use'. Cells B28, C11 to C28 are automatically calculated and will state '0.00' unless the user inputs have been entered. Cells D11 to D27 are automatically generated and will state 'Not applicable' depending on automatically generated data in cells C11 to C27. Row 28 is a Total Row. The Total Row states 'Totals' in cell A28 and automatically calculates the total sum of cells B11 to B27 in cell B28 and C11 to C27 in cell C28. Cell D28 is intentionally blank.

**How to fill in the table 'Current land use information'**

Cell B5: Choose the operational catchment the site is located within from the dropdown list.

Cell B6: Choose the soil drainage type associated with the predominant soil type within the development site from the dropdown list.

Cell B7: Choose the annual average rainfall the development will receive from the dropdown list. If the rainfall value is not on the list, choose the nearest value.

Cell B8: Choose whether the development is in a nitrate vulnerable zone (NVZ) from the dropdown list.

**How to fill in the table 'Current land uses'**

Cell A11-A27: Choose the existing (pre-development) land use type(s) from the dropdown list. Cells B11-B27: Enter the area of each land use type in m<sup>2</sup>.

The nutrient load from current land uses is shown in cells C11-C27 for total phosphorus (TP). The total nutrient load from current land uses is shown in cell C28 for TP.

## Current land use information

| Description of required information   | Data entry column - user inputs required |
|---------------------------------------|------------------------------------------|
| Operational catchment:                | Avon Hampshire                           |
| Soil drainage type:                   | Freely draining                          |
| Annual average rainfall (mm):         | 900.1 - 950                              |
| Within nitrate vulnerable zone (NVZ): | Yes                                      |

### Current land uses

| Existing land use type(s) - user inputs required | Area (ha) - user inputs required | Annual phosphorus export (kg TP/yr) | Notes on data  |
|--------------------------------------------------|----------------------------------|-------------------------------------|----------------|
| Lowland                                          | 0.79                             | 0.09                                | Not applicable |
| Commercial/Industrial urban land                 | 0.21                             | 0.28                                | Not applicable |
| Greenspace                                       | 0.05                             | 0.00                                | Not applicable |
| Lowland                                          | 0.24                             | 0.03                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
|                                                  |                                  | 0.00                                | Not applicable |
| Totals:                                          | 1.29                             | 0.41                                |                |

### Nutrients from future land use

This sheet contains one table.

**Note:** You will need to fill in cells A5 to A21 and B5 to B21. Cells B22 and C5 to C22 are automatically generated calculations and will state '0.00' unless the user inputs have been entered. Row 22 is a Total Row. The Total Row states 'Totals:' in cell A22 and automatically calculates the total sum of cells B5 to B21 in cell B22 and C5 to C21 in cell C22.

### How to fill in the table 'Future land uses'

Cells A5-A21: Choose the future (post-development) land use type(s) of landcover present on the new site from the dropdown list  
Cells B5-B21: Enter the area in hectares of each land use type.

The nutrient load from future land uses is shown in cells C5 to C21 for total phosphorus (TP).

The total nutrient load from future land uses is shown in cell C22 for TP.

### Future land uses

| New land use type(s) - user inputs required | Area (ha) - user inputs required | Annual phosphorus export (kg TP/yr) |
|---------------------------------------------|----------------------------------|-------------------------------------|
| Residential urban land                      | 0.63                             | 1.17                                |
| Greenspace                                  | 0.42                             | 0.01                                |
|                                             |                                  | 0.00                                |
| Greenspace                                  | 0.24                             | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
|                                             |                                  | 0.00                                |
| Totals:                                     | 1.29                             | 1.18                                |

**Nutrients from future land use after sustainable urban drainage system (SuDS) treatment**

This sheet contains one table.

Note: You will need to fill in cells A29, cells B5 to B29, cells C5 to C29, cells E5 to E29 and cells F5 to F29 if you are including SuDS to remove nutrients from the surface runoff. Cells B30, D35 to D39 and cells G5 to G30 are automatically calculated and will state '0.00' unless the user inputs have been entered. Cells H5 to H29 are automatically generated and will state 'Not applicable' unless the total area of the landscaped entered is larger than the total area of the landscaped entered into the worksheet 'Nutrients\_from\_future\_land\_use'. Row 30 is a Total Row. The Total Rows 'Totals' in cell A30 and automatically calculates the total sum of cells B5 to B29 in cell B30, cells D5 to D29 in cell D30 and cells G5 to G29 in cell G30. Cell C30, cell E30, cell F30 and cell H30 are intentionally blank.

### How to fill in the table 'SuDS information'

Cells A5 to A29: Choose the future (post-development) land use type(s) of landcover present on the new site within the SuDS catchment area from the dropdown list. Only landcovers entered into the worksheet titled 'Nutrients from future land use' can be entered.

Cells C5 to C29: Enter the percentage of the flow entering the SuDS feature. If all flow is being diverted to the SuDS feature then this value should be set to 100%.

The annual total phosphorus (TP) loads associated with the landcovers in the SuDS catchment area are automatically calculated in cells D6 to D20.

Cells E5 to E29: Enter the name of the SuDS features used to intercept surface flows can be entered in. Any text can be entered into these cells.

Cells F5 to F29: Enter the nutrient removal rates associated with the SuDS features for TP.

Values for column F must be identified by the user and must be specific to the SuDS features being implemented. The annual TP load removed by the SuDS features are automatically calculated in cells G5 to G29. These values are subtracted from the nutrient budget.

You do not need to fill in column H 'Notes on data'. It will state "Not applicable" unless the total area of each landcover within the SuDS

### SuDS information

| New land use type(s) within SuDS catchment area - user inputs required | SuDS catchment area (ha) - user inputs required | Percentage of flow entering the SuDS (%) - user inputs required | Annual phosphorus inputs to SuDS feature(s) (kg T/yr) | Name of SuDS feature(s) - user inputs required                              | TP removal rate for features - user specified (%) - user inputs required | Annual phosphorus load removed by SuDS (kg TP/yr) | Notes on data                                                                                   |
|------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Residential urban land                                                 | 0.63                                            | 73.00                                                           | 1.17                                                  | Modified Rational Method - 26.91% runoff, therefore 73% discharge to ground | 100.00                                                                   | 0.85                                              | Area of new land covers within SuDS catchment area exceeds the area of new land covers proposed |
| Residential urban land                                                 | 0.63                                            | 27.00                                                           | 1.17                                                  | SuDS to ground                                                              | 100.00                                                                   | 0.31                                              | Area of new land covers within SuDS catchment area exceeds the area of new land covers proposed |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
|                                                                        |                                                 |                                                                 | 0.00                                                  |                                                                             |                                                                          | 0.00                                              | Not applicable                                                                                  |
| Totals:                                                                | 1.26                                            |                                                                 | 2.33                                                  |                                                                             |                                                                          | 1.17                                              |                                                                                                 |

## Final nutrient budgets

This worksheet contains one table. This table is automatically populated using the outputs from the previous worksheets.

**Note:** You do not need to fill in any cells in the table.

Cells B5 to B8 and cells B10 are automatically calculated and will state '0.00' unless the user inputs have been entered to all of the required worksheets.

Cells A11 to A14, cell B12 and cell B14 are automatically generated and will state 'Not applicable' depending on the user inputs to the worksheet 'Nutrients\_from\_wastewater'.

Cell B9, B11 and B13 are intentionally blank.

This table presents calculations that underpin the final annual nutrient budget for the development site. Up to 3 values for the nutrient budget may be presented in cells B10, B12 and B24 for total phosphorus (TP).

### Total nutrient budget calculations

| Description of values generated                             | Values generated |
|-------------------------------------------------------------|------------------|
| Wastewater TP load (kg TP/year):                            | 0.45             |
| Net land use TP change (kg TP/year):                        | -0.39            |
| TP budget:                                                  | 0.06             |
| TP budget + 20% buffer:                                     | 0.07             |
| <b>Annual nutrient budget</b>                               |                  |
| The total annual phosphorus load to mitigate is (kg TP/yr): | 0.07             |
| <b>Not applicable</b>                                       |                  |
| Not applicable                                              | Not applicable   |
| <b>Not applicable</b>                                       |                  |
| Not applicable                                              | Not applicable   |

Manufacturers Certificate



# Certificate

Nr. 457.1C2

## CRX II

Primary settlement zone with electro-coagulation unit and submerged fixed bed biofilm reactor

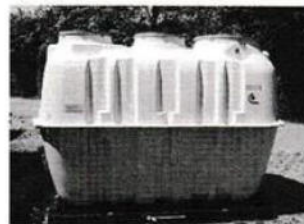
Fuji Clean Co.,Ltd.

4-1-4 Imaike, Chikusa, Nagoya, Aichi 464-8613, Japan

EN 12566-3:2005+A2:2013, Annex B: Treatment efficiency test

Small wastewater treatment systems for up to 50 PT – Part 3:  
Packaged and/or site assembled domestic wastewater  
treatment plants

Detailed results and information on the test are provided in  
test report PIA2024-457B03.



### Extract of performance details (EN 12566-3, Annex B: Treatment efficiency test)

|                                                                           |                             |            |           |
|---------------------------------------------------------------------------|-----------------------------|------------|-----------|
| Organic daily load (influent, nominal)                                    | 0.21 kg BOD <sub>5</sub> /d |            |           |
| Hydraulic daily load (nominal)                                            | 0.65 m <sup>3</sup> /d      |            |           |
| Treatment efficiency (nominal)                                            |                             | Efficiency | Effluent  |
|                                                                           | COD                         | 95.8 %     | 32 mg/l   |
|                                                                           | BOD <sub>5</sub>            | 98.3 %     | 5 mg/l    |
|                                                                           | TN <sub>b</sub>             | 71.8 %     | 18 mg/l   |
|                                                                           | NH <sub>4</sub> -N          | 73.8 %     | 12.0 mg/l |
|                                                                           | P <sub>tot</sub>            | 93.5 %     | 0.6 mg/l  |
|                                                                           | SS                          | 97.8 %     | 8 mg/l    |
| Electrical consumption (nominal)                                          | 1.75 kWh/d *                |            |           |
|                                                                           | 1.41 kWh/d **               |            |           |
| Number of desludging (complete test – 38 + 4 weeks)                       | 0                           |            |           |
| Number of maintenance operations during the test (without start-up phase) | 2                           |            |           |

\* inclusive of transformer 240 V-110 V

\*\* exclusive of transformer 240 V-110 V

Tested by:  
PIA – Prüfinstitut für Abwassertechnik GmbH  
Hergenrather Weg 30  
52074 Aachen, Germany

This certificate is for information purposes only and  
replaces neither the related test report nor the  
declaration of performance or the CE marking.  
The results relate only to the tested object.

PIA – Sustainable Certification



November 2024, Dipl.-Ing. Gabriel Schatzki  
Head of department "Wastewater Testing"



Notified Body  
No.: 1739



Certified according to  
ISO 9001:2015



## APPENDIX 264/NNAMS/A4

### SuDS 100% discharge to ground evidence

|                                                                                                                                                           |                                                                                         |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                          |                                                                                         | Site name: <input type="text" value="Bishopstone"/><br>Project ref: <input type="text" value="264"/> |
| <b>SuDS Pollution Risk Assessment (CIRIA Guidance C808)</b>                                                                                               |                                                                                         |                                                                                                      |
| <b>1 - The SuDS device will not be subject to significant flooding, i.e. it is not in Flood Zone 2 or 3.</b>                                              |                                                                                         |                                                                                                      |
| The SuDS device is in:                                                                                                                                    | <input type="text" value="Flood Zone 1"/>                                               |                                                                                                      |
| Source:                                                                                                                                                   | <input type="text" value="Environment Agency Flood Map for Planning (Rivers and Sea)"/> |                                                                                                      |
| <b>2 - The SuDS device is in an area where the high-water table groundwater depth is at least 1 m below the base of the proposed infiltration device.</b> |                                                                                         |                                                                                                      |
| Depth to groundwater:                                                                                                                                     | <input type="text" value="15.00"/>                                                      | mbgl                                                                                                 |
| Groundwater level:                                                                                                                                        | <input type="text" value="59.00"/>                                                      | mAOD                                                                                                 |
| Elevations at site:                                                                                                                                       | <input type="text" value="74.00"/>                                                      | mAOD                                                                                                 |
| Source:                                                                                                                                                   | <input type="text" value="BGS Borehole Log SU02NE34"/>                                  |                                                                                                      |
| <b>3 - The total pollution risk score for the SuDS device calculated in accordance with Table 28.8 of C753 is &lt;180.</b>                                |                                                                                         |                                                                                                      |
| Pollution risk score:                                                                                                                                     | <input type="text" value="170"/>                                                        | <i>See pollution risk score table attached</i>                                                       |
| <b>4 - The SuDS device is at least 5 m away from any surface water feature, including a river, stream or lake.</b>                                        |                                                                                         |                                                                                                      |
| Distance to nearest surface water feature:                                                                                                                | <input type="text" value="310.00"/>                                                     | m                                                                                                    |
| Source:                                                                                                                                                   | <input type="text" value="River Ebble"/>                                                |                                                                                                      |

| Risk Element |                                                                                  | Risk score                                                                            |                                                                                        |                |       | Weighting factor | Pollution risk score | Source     |
|--------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------|-------|------------------|----------------------|------------|
| No.          | Description                                                                      | Low risk 1                                                                            | Medium risk 2                                                                          | High risk 3    | Score |                  |                      |            |
| 1            | Pollution hazard                                                                 | All standard urban land use types                                                     |                                                                                        |                | 1     | 15               | 15                   | CIRIA C808 |
| 2            | Standard average annual rainfall depth                                           | <740 mm                                                                               | 740-1,060 mm                                                                           | >1,060 mm      | 2     | 15               | 30                   |            |
| 3            | Type of SuDS                                                                     | Continuous unlined linear collection and conveyance component (filter strips, swales) | Shallow soakaway (infiltration basin, permeable paving) draining <5,000 m <sup>2</sup> |                | 2     | 15               | 30                   |            |
| 4            | Average Unsaturated zone depth                                                   | >15 m                                                                                 | 5-15 m                                                                                 | 1-5 m          | 1     | 20               | 20                   |            |
| 5            | Predominant flow type through soils between infiltration surface and groundwater | Intergranular flow                                                                    | Mixed fracture and intergranular flow                                                  | Fractured flow | 2     | 20               | 40                   |            |
| 6            | Unsaturated zone clay content                                                    | >15% clay                                                                             | 1-15% clay                                                                             | <1% clay       | 2     | 5                | 10                   |            |
| 7            | Unsaturated zone organic carbon content<br>soil organic matter content           | >15% SOM                                                                              | 1-15% SOM                                                                              | <1% SOM        | 3     | 5                | 15                   |            |
| 8            | Unsaturated zone soil pH                                                         | >8                                                                                    | 5-8                                                                                    | <5             | 2     | 5                | 10                   |            |
| Total        |                                                                                  |                                                                                       |                                                                                        |                |       |                  | 170                  |            |

**APPENDIX 264/NNAMS/A6**  
**Evidence Photos**











