# Proposed extension and alterations at Fron Ash Grove, Bronington
# Green Infrastructure Statement

02 September 2026



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# Green Infrastructure Statement

**1. Introduction and Project Overview**

This statement details the proposed green infrastructure (GI) elements integrated into the design of the new single-storey rear extension and alterations to the access at Ash Grove. The project aims to minimize environmental impact, enhance the site's biodiversity, improve surface water management, and contribute to the property's overall sustainability profile.

**2. Surface Water Management (SuDS)**

The primary focus of surface water drainage will be to prevent increased pressure on existing drainage networks and utilize water as a resource.
Rainwater Harvesting: Rainwater from the new extension's roof and existing roof areas will be directed into a new water butt system. The harvested water will be used for garden irrigation and potentially non-potable indoor uses (e.g., toilet flushing), reducing reliance on mains water supply. Excess rainwater from the extension roof will be taken to the existing soakaway which will be assessed and increased in size, if necessary, although the proposed extension is on a similar footprint to the existing conservatory.
Permeable Paving: the existing hardstanding around the extension is in gravel and will remain. Any new hardstanding areas associated with the extension, such as pathways, will utilize permeable paving materials (e.g., permeable concrete blocks). This allows surface water to soak directly into the ground rather than running off into public drains, naturally filtering the water and recharging local groundwater.

**3. Biodiversity and Ecology Enhancement**

The design incorporates features that increase the ecological value of the plot, although no garden space is being lost to the proposed extension.

Wildlife Features: The inclusion of features, such as bat and bird boxes will provide essential resources for local wildlife.

**4. Energy Efficiency and Sustainable Materials**
The extension's construction will prioritize materials with low embodied carbon and design principles that reduce operational energy demand.
High-Performance Insulation: All new walls, floors, and the roof will be constructed with insulation materials that exceed current building regulations, significantly reducing heat loss and the demand for heating.
High-Efficiency Glazing: New windows and glass doors will feature high-specification double or triple glazing, oriented to maximize natural light and passive solar gain during winter months while minimizing overheating in summer.
Sustainable Materials: Where possible, materials sourced from sustainable or recycled origins (e.g., FSC-certified timber cladding) will be used in construction.

**5. Summary and Maintenance**

The proposed green infrastructure measures ensure the single-storey extension will have a net positive impact on the site's environmental performance. All features, particularly the rainwater harvesting system and the replacement hedge will be incorporated into the property's long-term maintenance plan.




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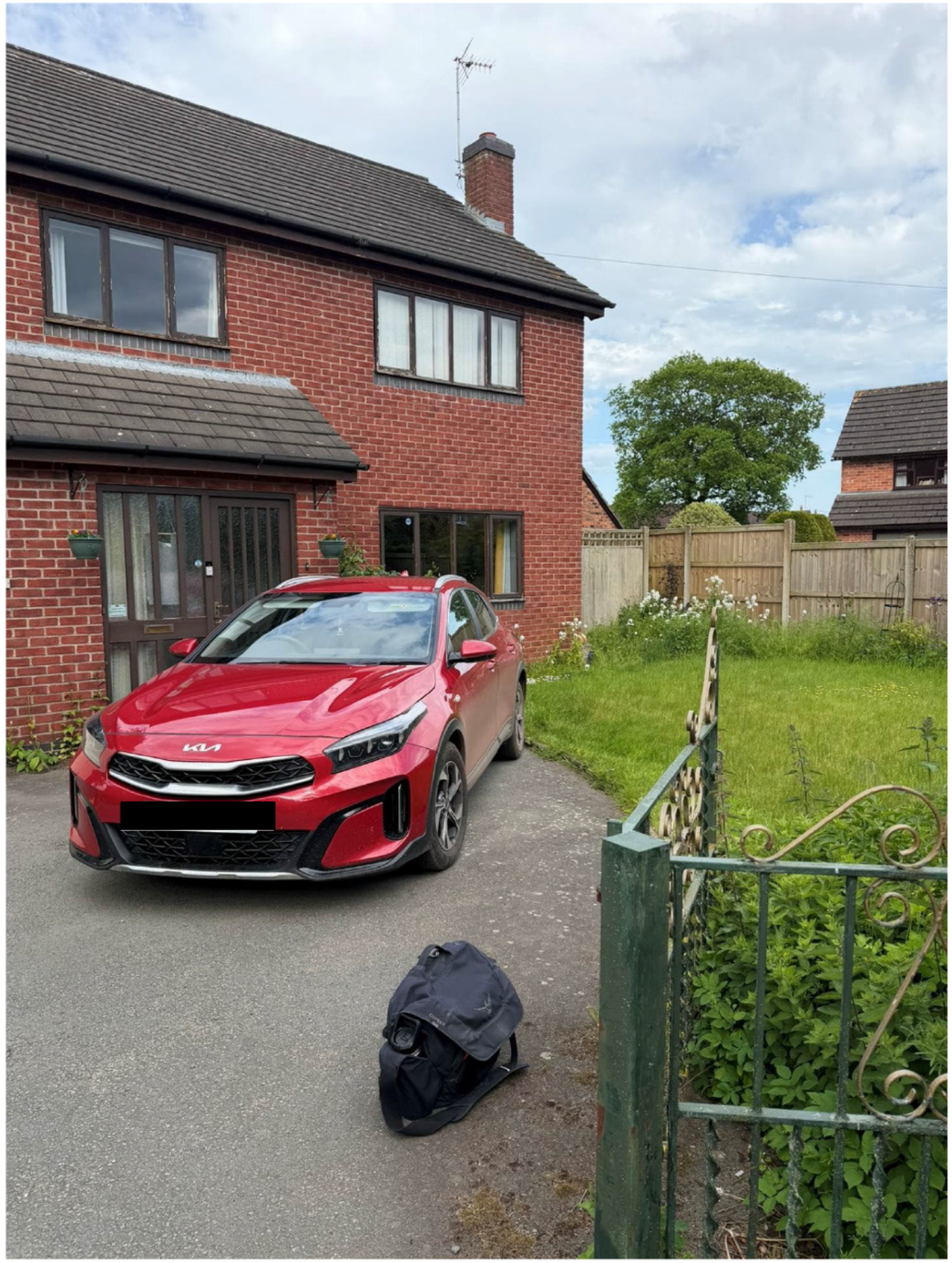
**Location Plan**
1 : 1250

0m 25m 50m 75m 100m 125m

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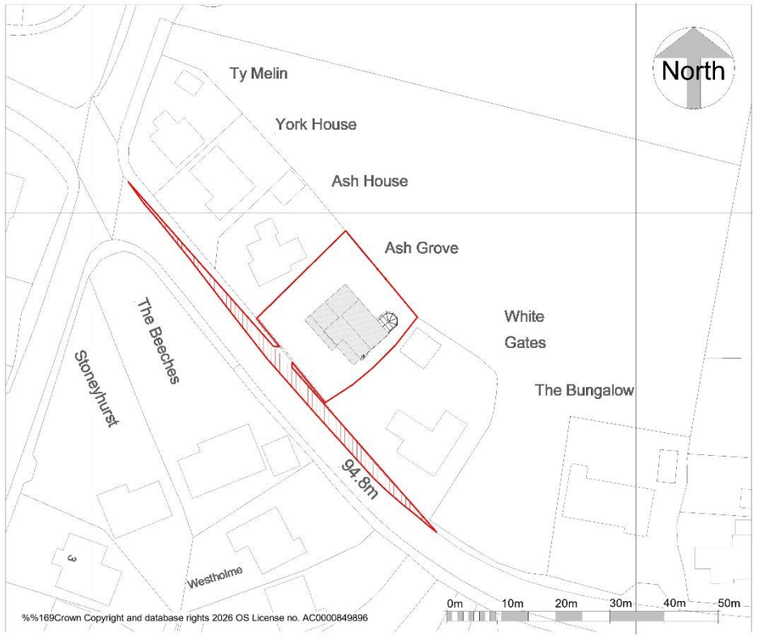
# Existing Photographs – External Views



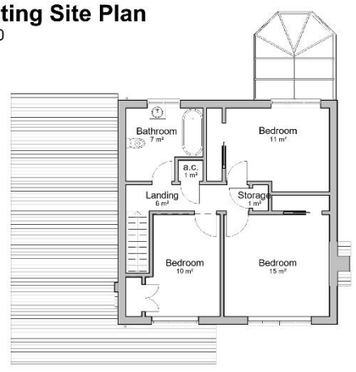


External views of the existing property with gravel forecourt and paved areas to the front of the dwelling.

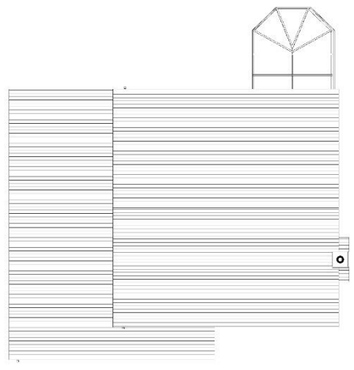
# Existing Site Plan, Plans and Elevations




**Existing Site Plan**
1 : 500




**Existing First Floor Plan**
1 : 100

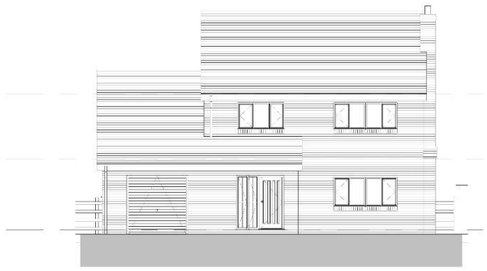


**Existing Roof Plan**
1 : 100




**Existing Ground Floor Plan**
1 : 100



**Existing South West Elevation**
1 : 100




**Existing South East Elevation**
1 : 100



**Existing North East Elevation**
1 : 100




**Existing North West Elevation**
1 : 100



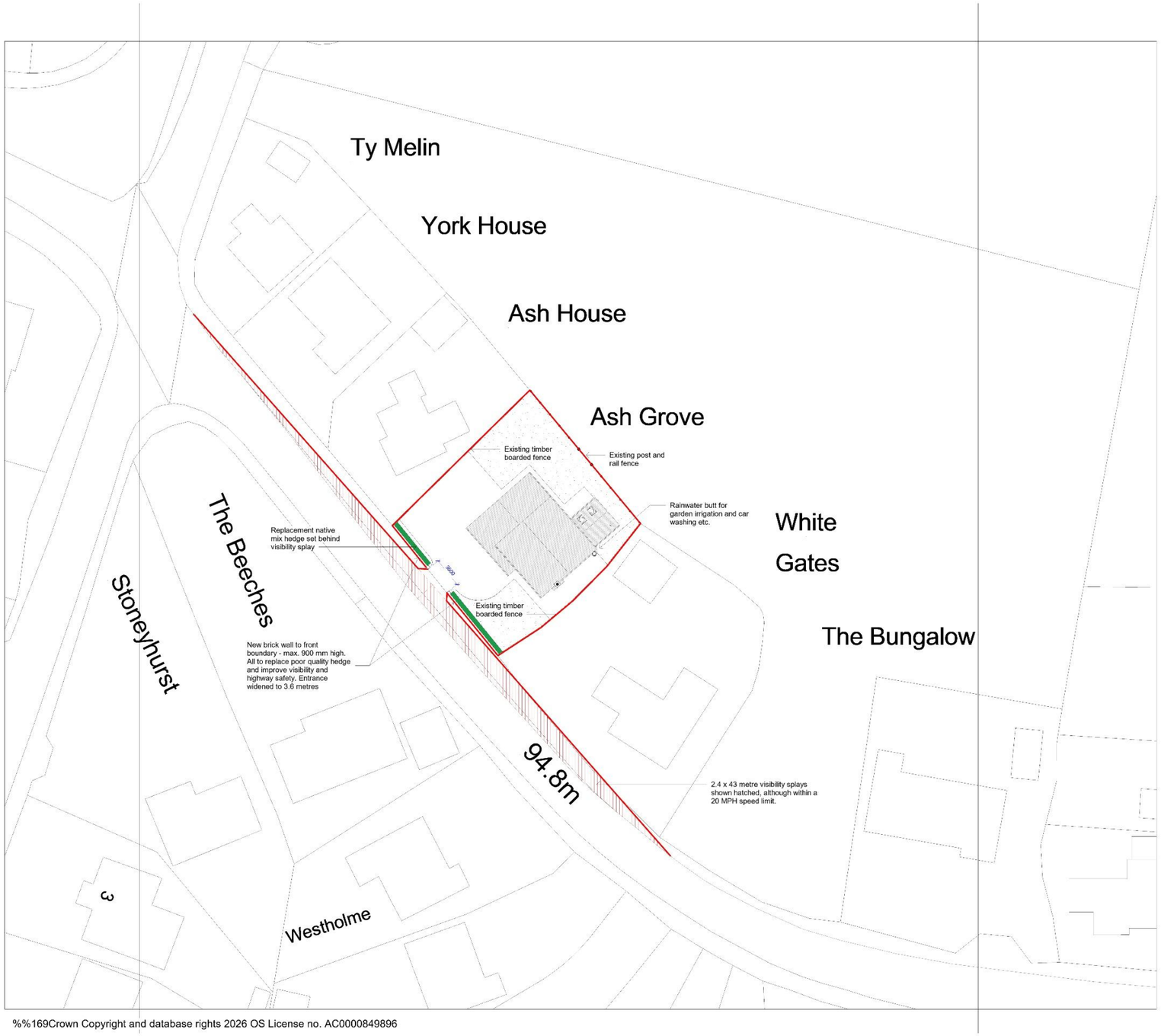

**Existing Section A-A**
1 : 100




**Existing Section B-B**
1 : 100



# Proposed Site Plan

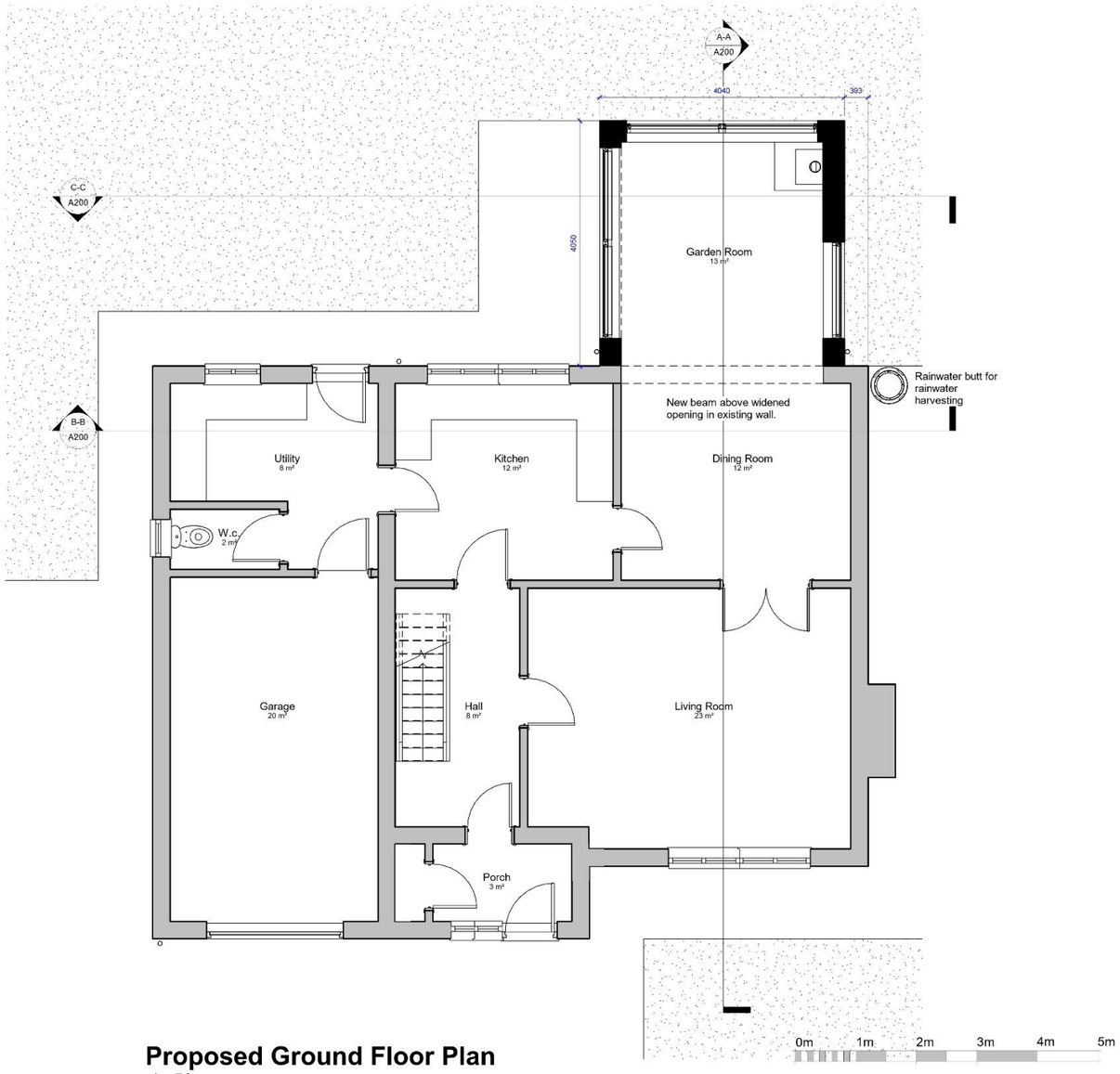



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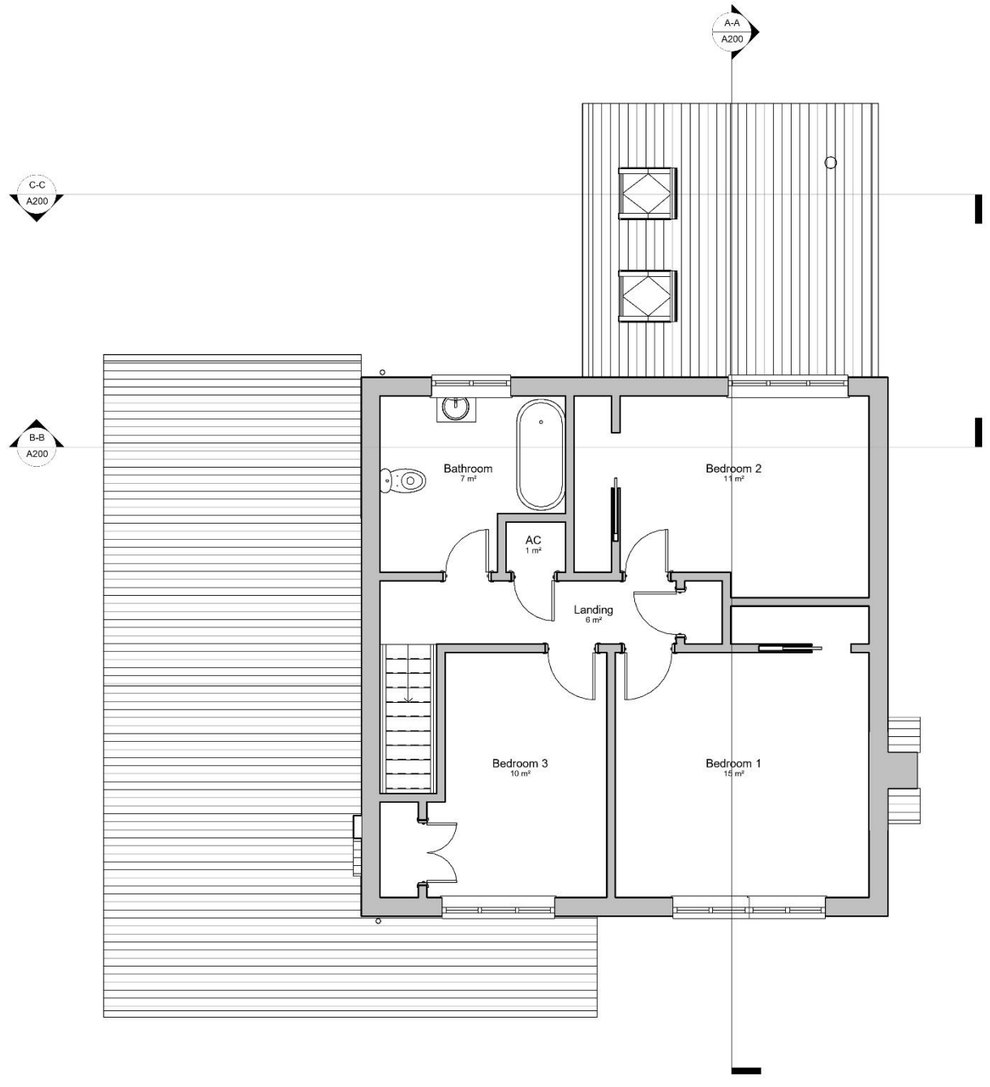
**Proposed Site Plan**
1 : 250

0m 5m 10m 15m 20m 25m

# Proposed Floor Plans




**Proposed Ground Floor Plan**
1 : 50




**Proposed First Floor Plan**
1 : 50

# Proposed Elevations




**Proposed South West Elevation**
1 : 50



**Proposed South East Elevation**
1 : 50




**Proposed North East Elevation**
1 : 50

0m 1m 2m 3m 4m 5m




**Proposed North West Elevation**
1 : 50

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