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DESIGN PROPOSAL PACK . . .

0699-AM2-CP

144 NOTTINGHAM RD, RAVENSHEAD, NOTTINGHAM, NG15 9HL

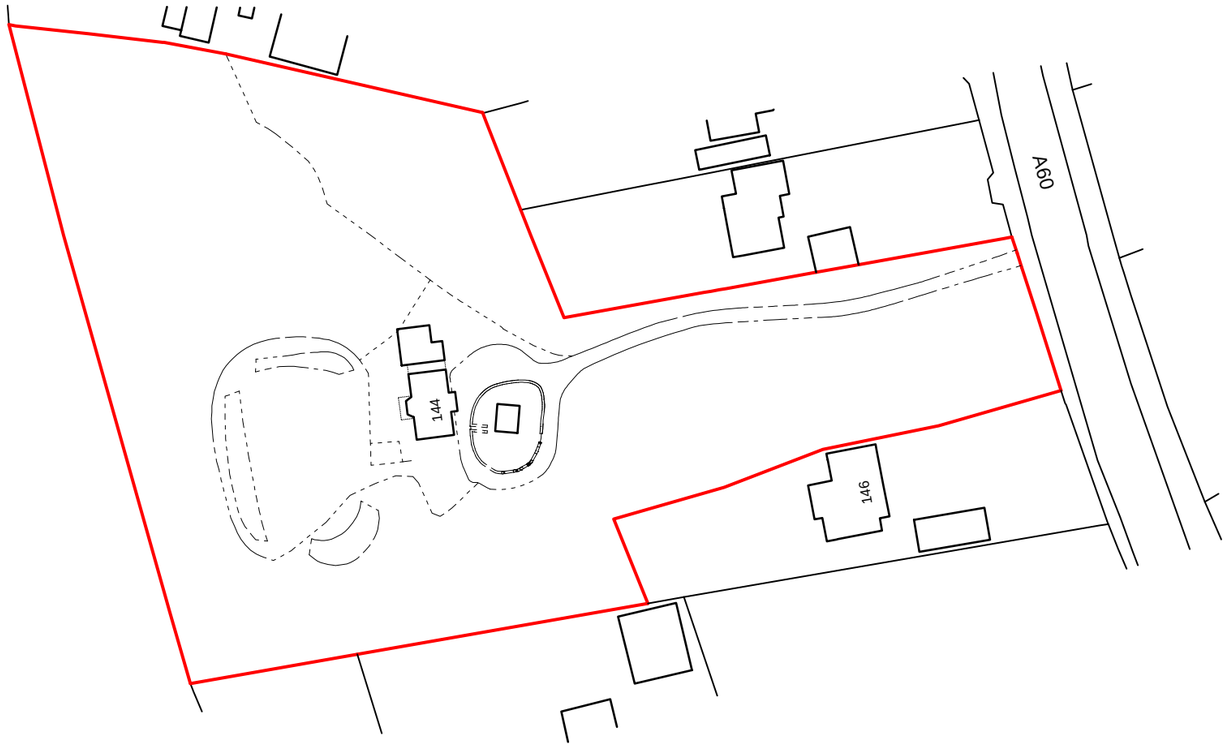
INDEX . . .

0699-AM2-I

LOCATION PLAN . . .

0699-AM2-GP01

144 NOTTINGHAM RD, RAVENSHEAD, NOTTINGHAM, NG15 9HL



LOCATION PLAN 1:1250

SITE PLAN . . .

0699-AM2-GP02

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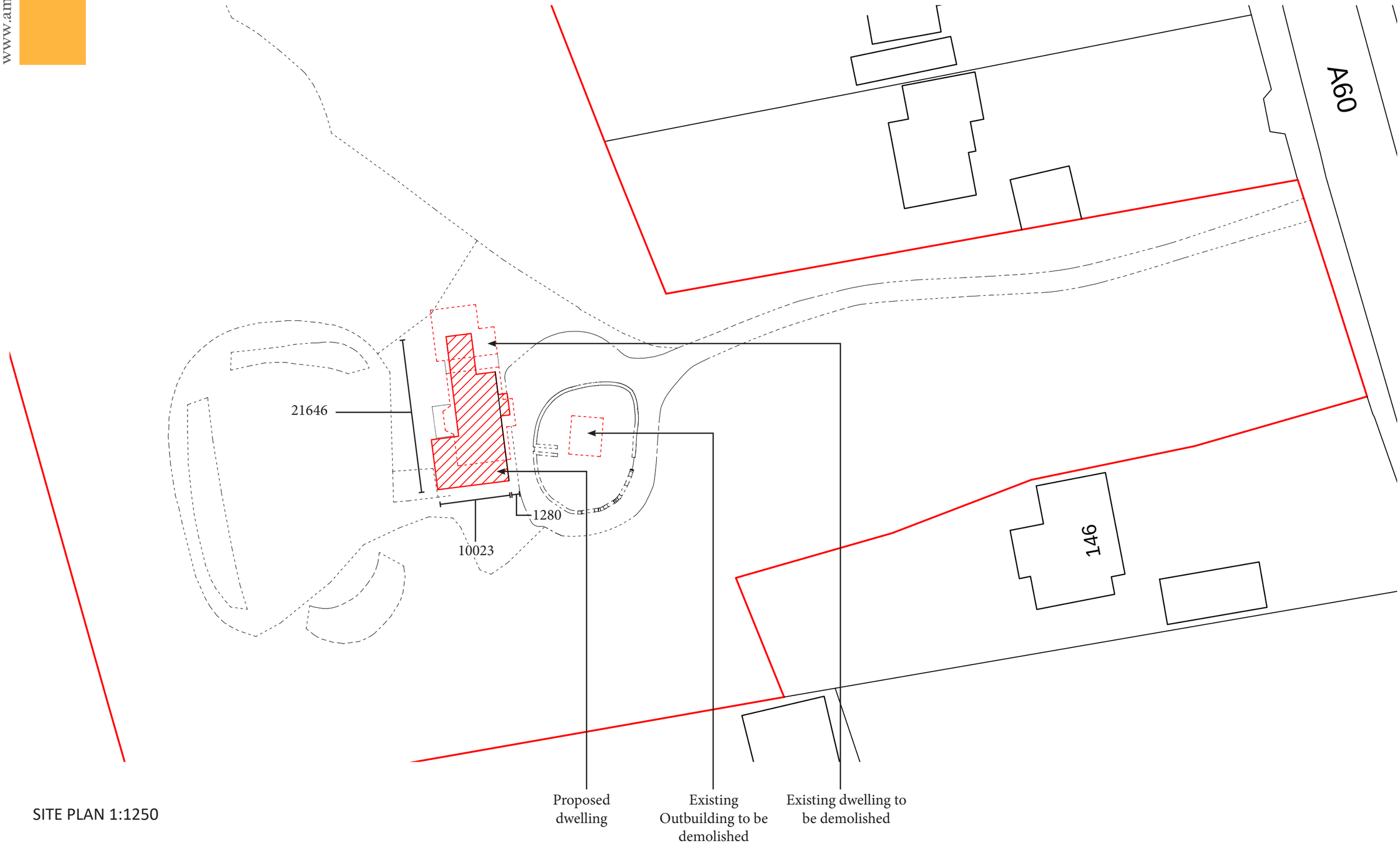

SITE PLAN 1:1250

SITE PHOTOGRAPHY . . .
0699-AM2-SP

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Front facade - East Elevation

Existing driveway

Rear Amenity and West Elevation

Rear Amenity and West Elevation

Existing site entrance

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EXISTING . . .

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EXISTING SITE PLAN . . .

0699-AM2-ESP

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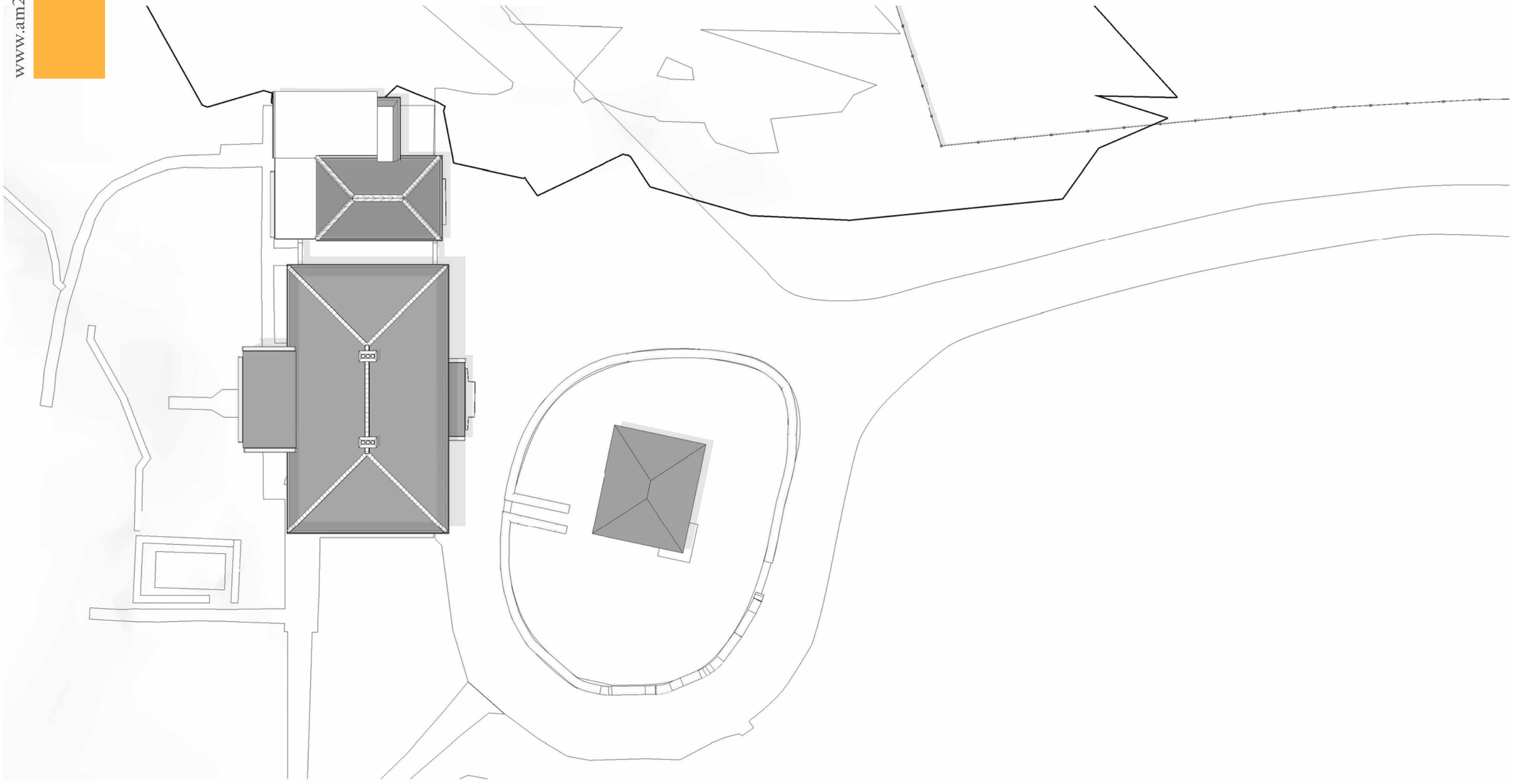

Site Plan

1 : 200

EXISTING GROUND FLOOR PLAN . . .

0699-AM2-EGFP

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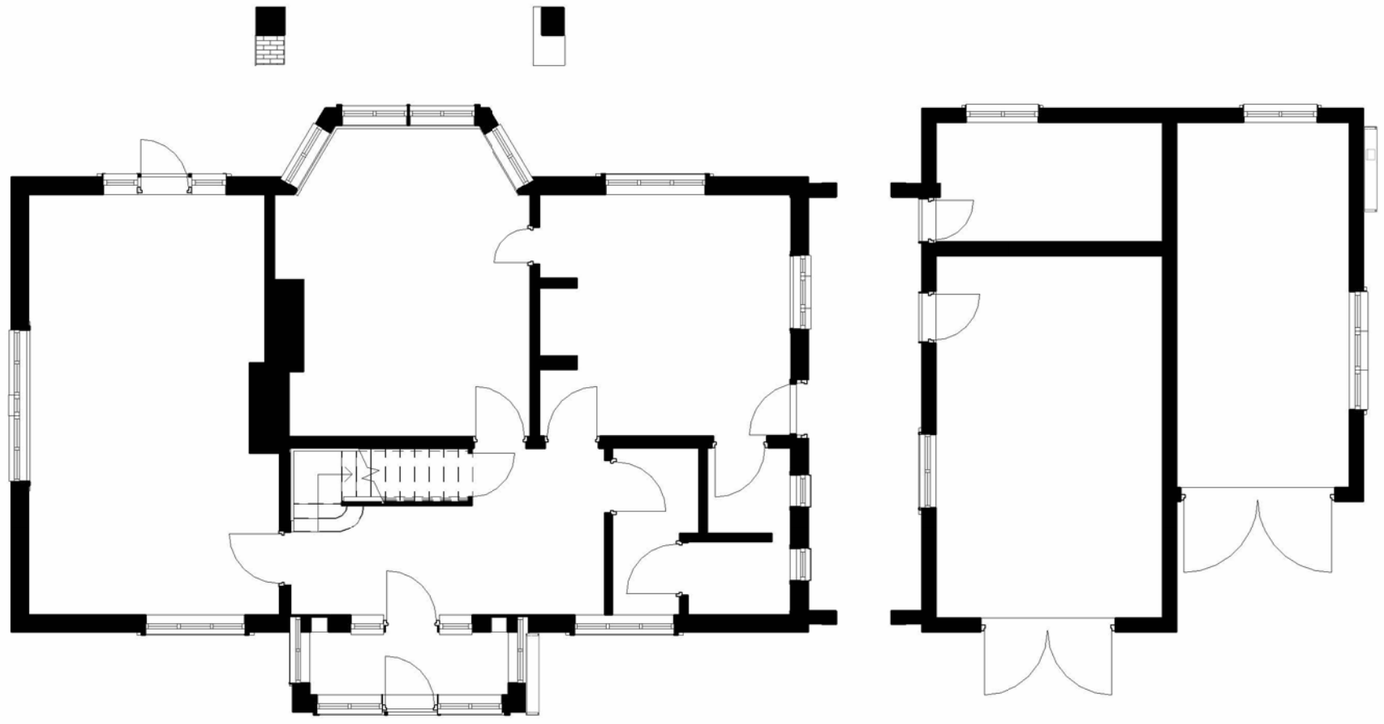


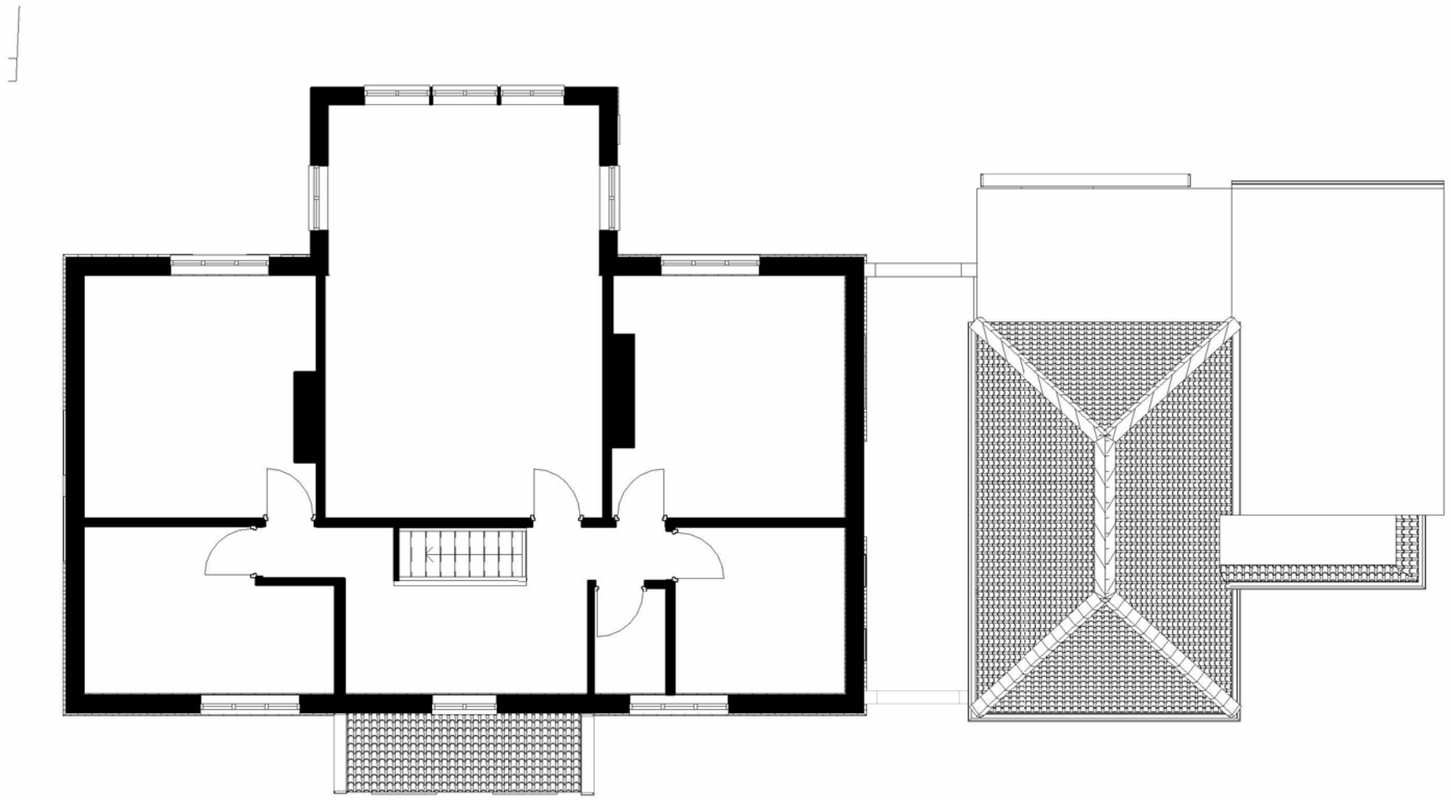
Ground Floor

1 : 100

EXISTING FIRST FLOOR PLAN . . .

0699-AM2-EFFP

144 NOTTINGHAM RD, RAVENSHEAD, NOTTINGHAM, NG15 9HL



First Floor

1 : 100

SCALE 1:100

0 1 5 10 m

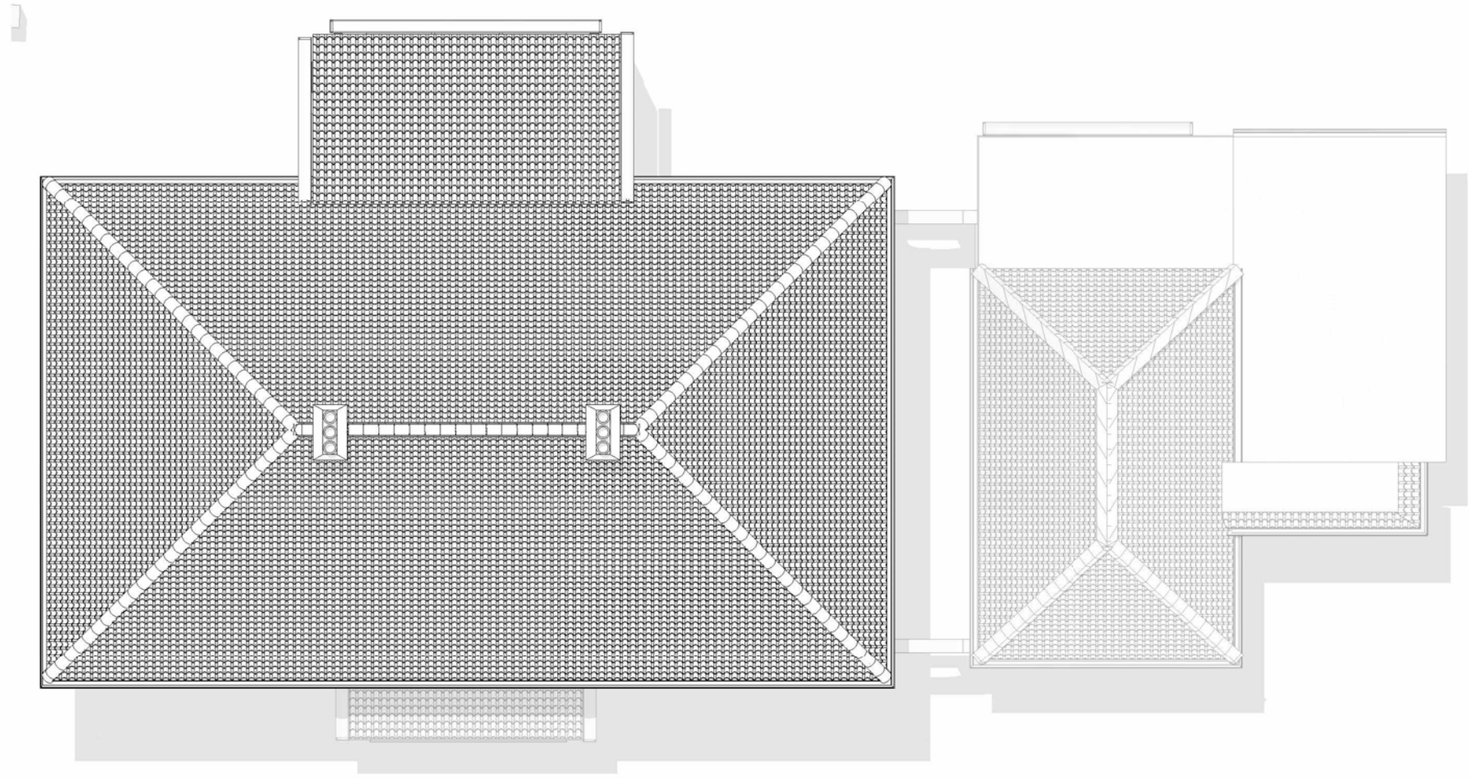
N

SCALE 1:100 @A3

EXISTING ROOF PLAN . . .

0699-AM2-ERP

144 NOTTINGHAM RD, RAVENSHEAD, NOTTINGHAM, NG15 9HL



Roof

1 : 100

SCALE 1:100

0 1 5 10 m

N

SCALE 1:100 @A3

EXISTING ELEVATIONS 01 . . .

0699-AM2-EE01

144 NOTTINGHAM RD, RAVENSHEAD, NOTTINGHAM, NG15 9HL

East

1 : 100

North (Courtyard)

1 : 100

North

1 : 100

SCALE 1:100

0 1 5 10 m

EXISTING ELEVATIONS 02 . . .

0699-AM2-EE02

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West

1 : 100

South

1 : 100

SCALE 1:100

0 1 5 10 m

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PROPOSED DWELLING . . .

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PROPOSED SITE PLAN . . .

0699-AM2-PSP

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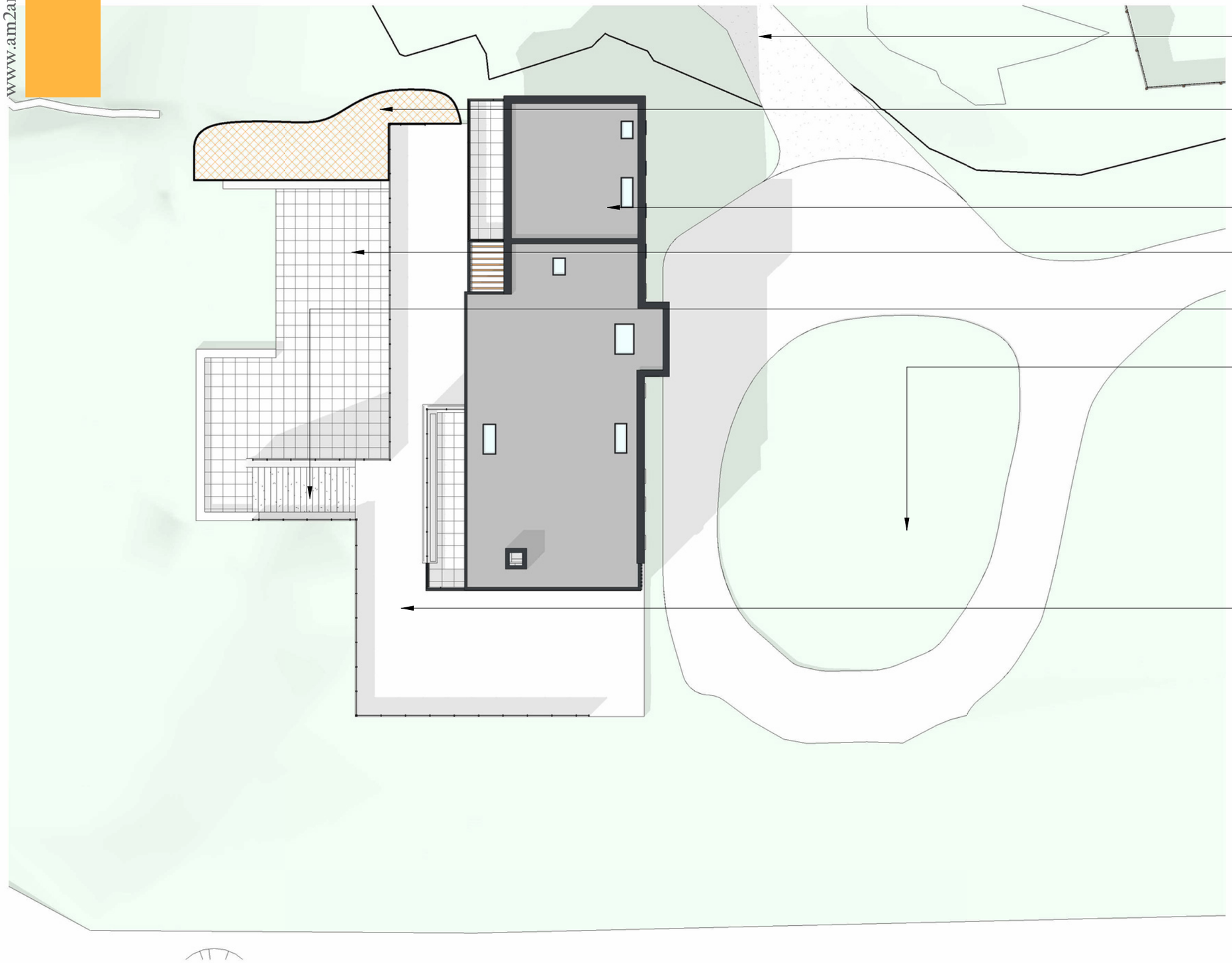

Proposals:
Existing pathway to woodland

Landscaping:
Proposed natural landscaped path to follow existing contours. TBC

Proposals:
Proposed Dwelling

Landscaping:
Proposed porcelin tile or similar

Proposals:
Proposed Stair

Landscaping:
Proposed landscaping will utilise the existing driveway where possible. Should additional driveway be required a "no dig" solution is proposed.

Proposals:
Proposed raised patio space

Site Plan

1 : 200

Do not scale from drawing. AM2 Ltd accept no responsibility for any dimensions obtained by measuring or scaling from this drawing and no reliance should be placed on such dimensions. If no dimension is given, it is the responsibility of the recipient to obtain the dimension specifically from the author or by site measurement.
The sizing of all structural and service elements must always be checked against the relevant engineer's drawings. No reliance should be placed upon sizing information shown on this drawing.

SCALE 1:200

0 1 5 10 20 m

N

SCALE 1:200 @A3

PROPOSED TREE SITE PLAN . . .

0699-AM2-PTSP

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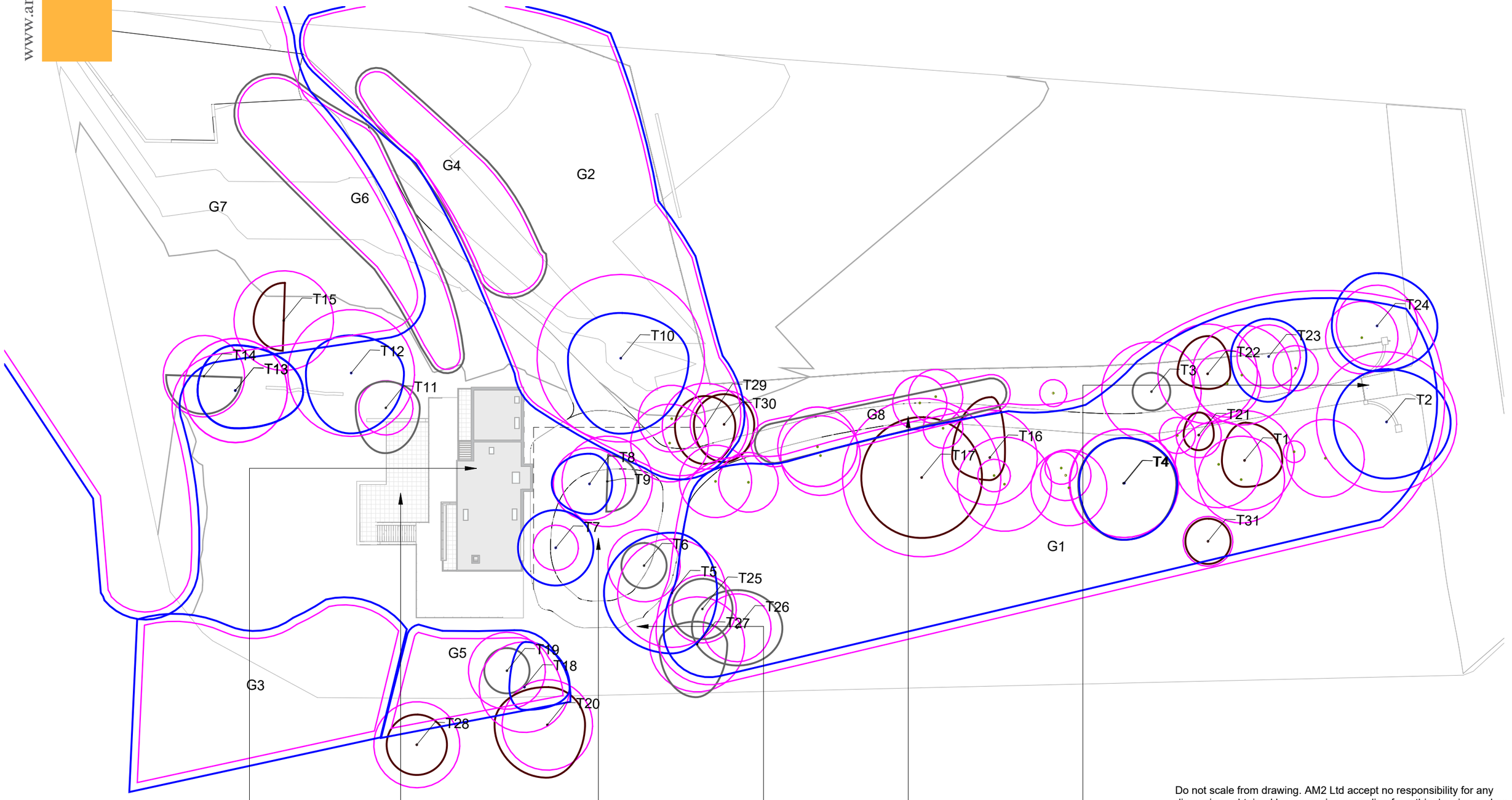

Proposals:
Proposed Dwelling Location avoids all surrounding RPA's

Landscaping:
Proposed landscaping

Proposals:
Existing outbuilding to be removed if required

Landscaping:
Proposed driveway to be extended and is to match existing

Landscaping:
Existing foliage to be groomed and crowned where required to allow for suitable space for emergency vehicles. Please refer to AIA for more info

Proposal:
Proposed site gateway and entrance to improve ingress and egress to the site with improved visibility splays. Exact design TBC

SCALE 1:500

0 5 25 50 m

SCALE 1:500 @ A3

PROPOSED BASEMENT PLAN . . .

0699-AM2-PBP

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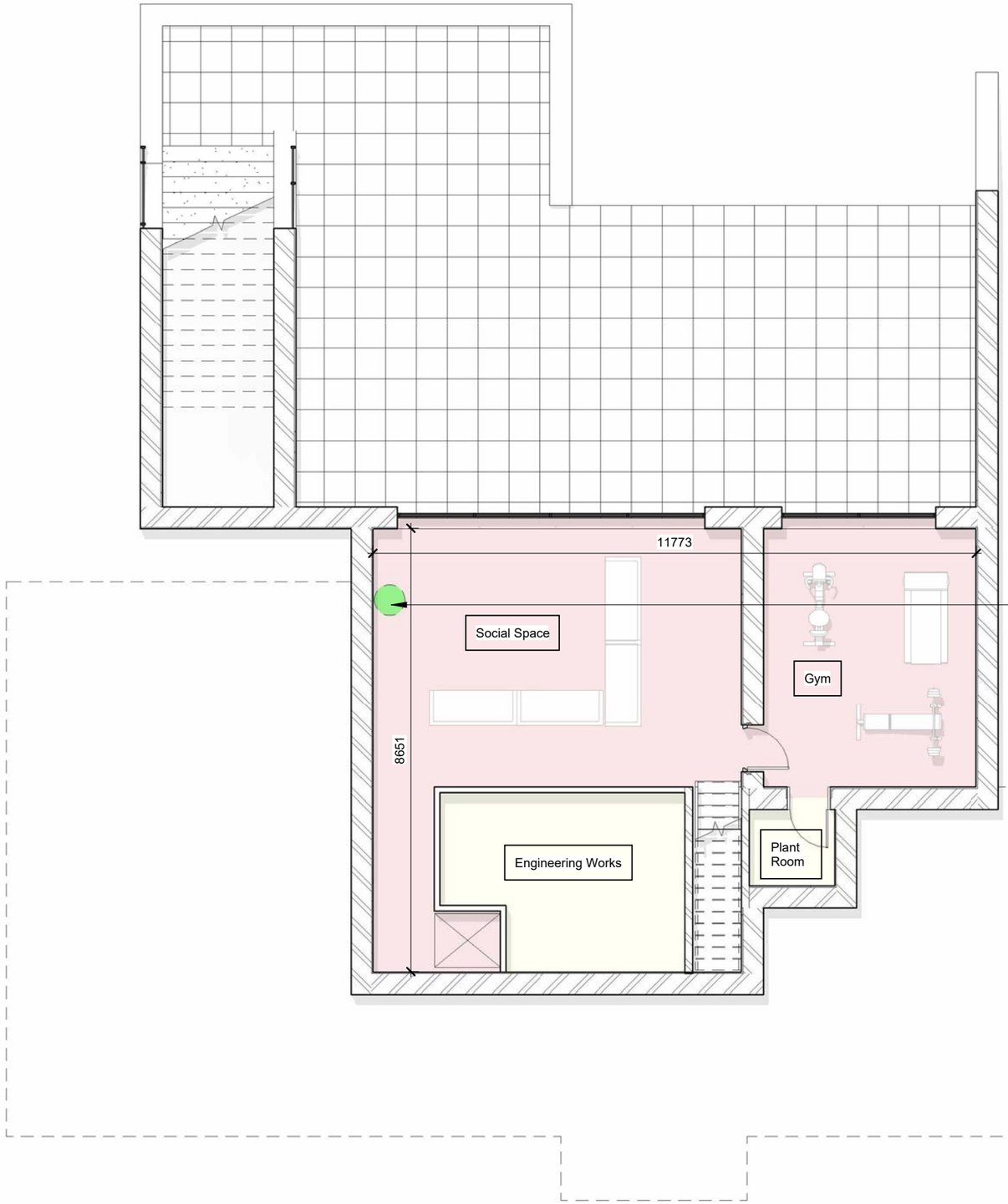

Example of external porcelain tile floor finish

Feature:
Proposed electric of biofuel fireplace

Basement

1 : 100

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PROPOSED GROUND FLOOR PLAN . . .

0699-AM2-PGFP

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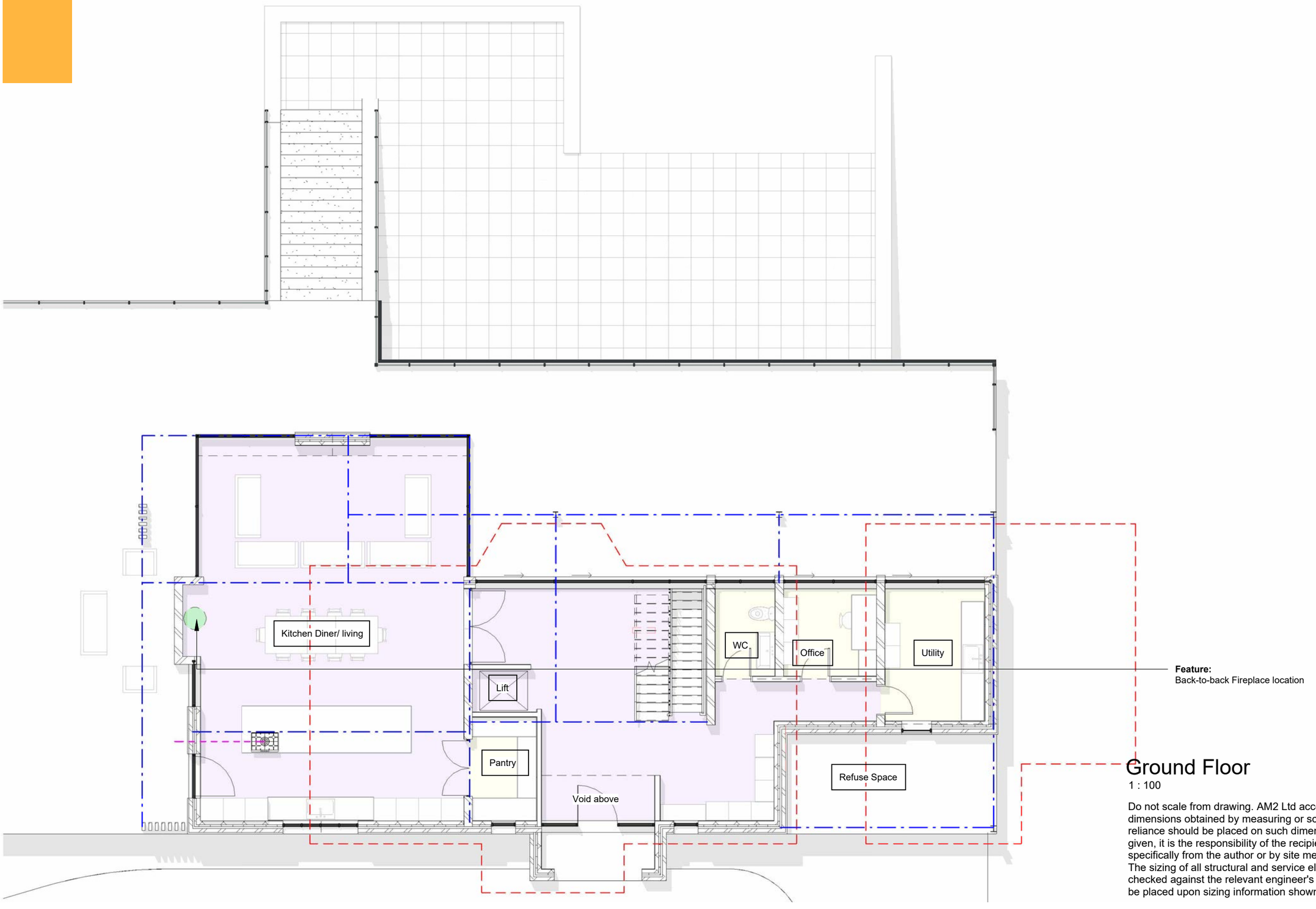

Feature:
Back-to-back Fireplace location

Ground Floor

1 : 100

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Creating Value Through Design

SCALE 1:100

0 1 5 10 m

N

SCALE 1:100 @A3

PROPOSED FIRST FLOOR PLAN . . .

0699-AM2-PFFP

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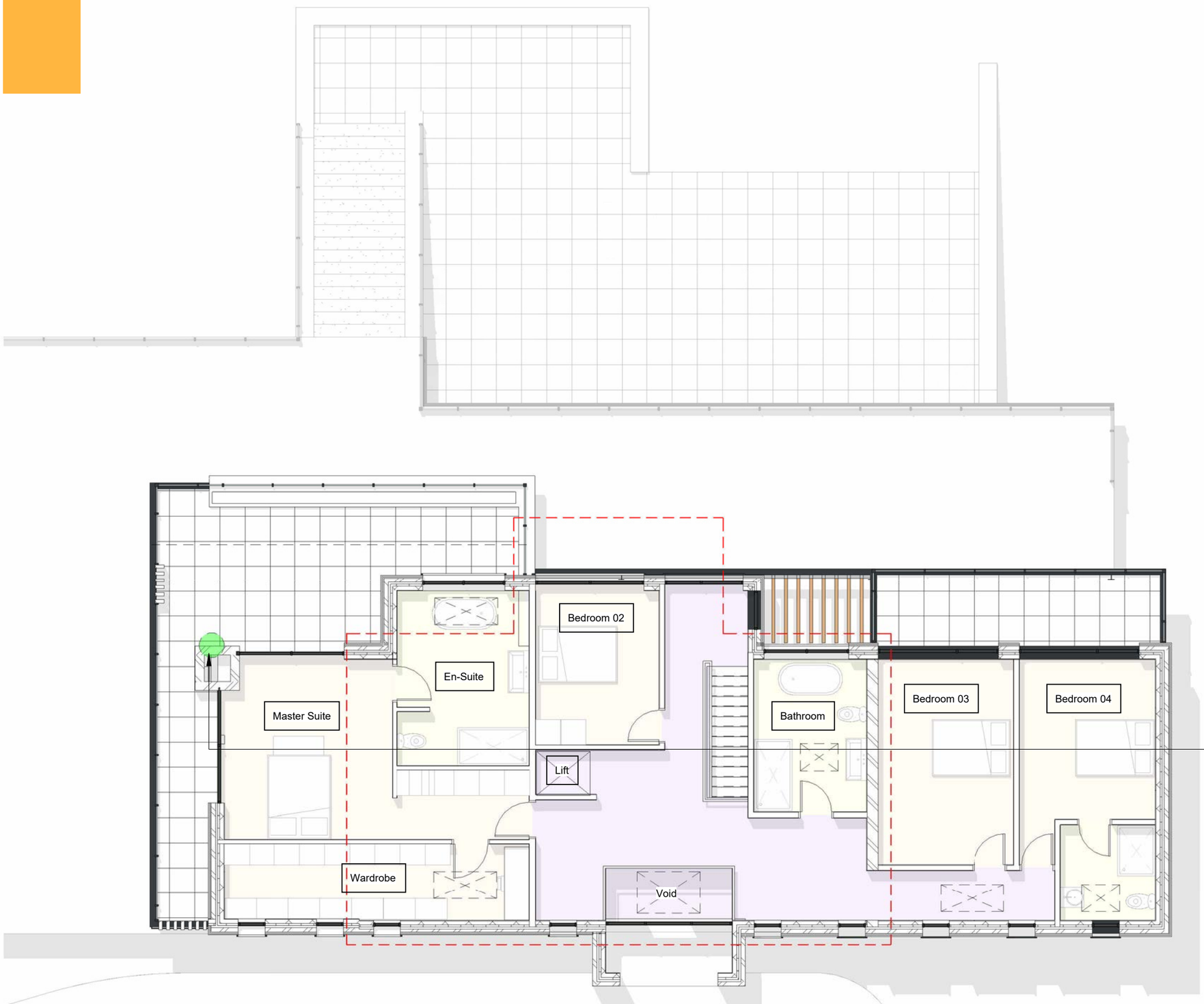

Feature:
Fireplace location

First Floor

1 : 100

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PROPOSED ROOF PLAN . . .

0699-AM2-PRP

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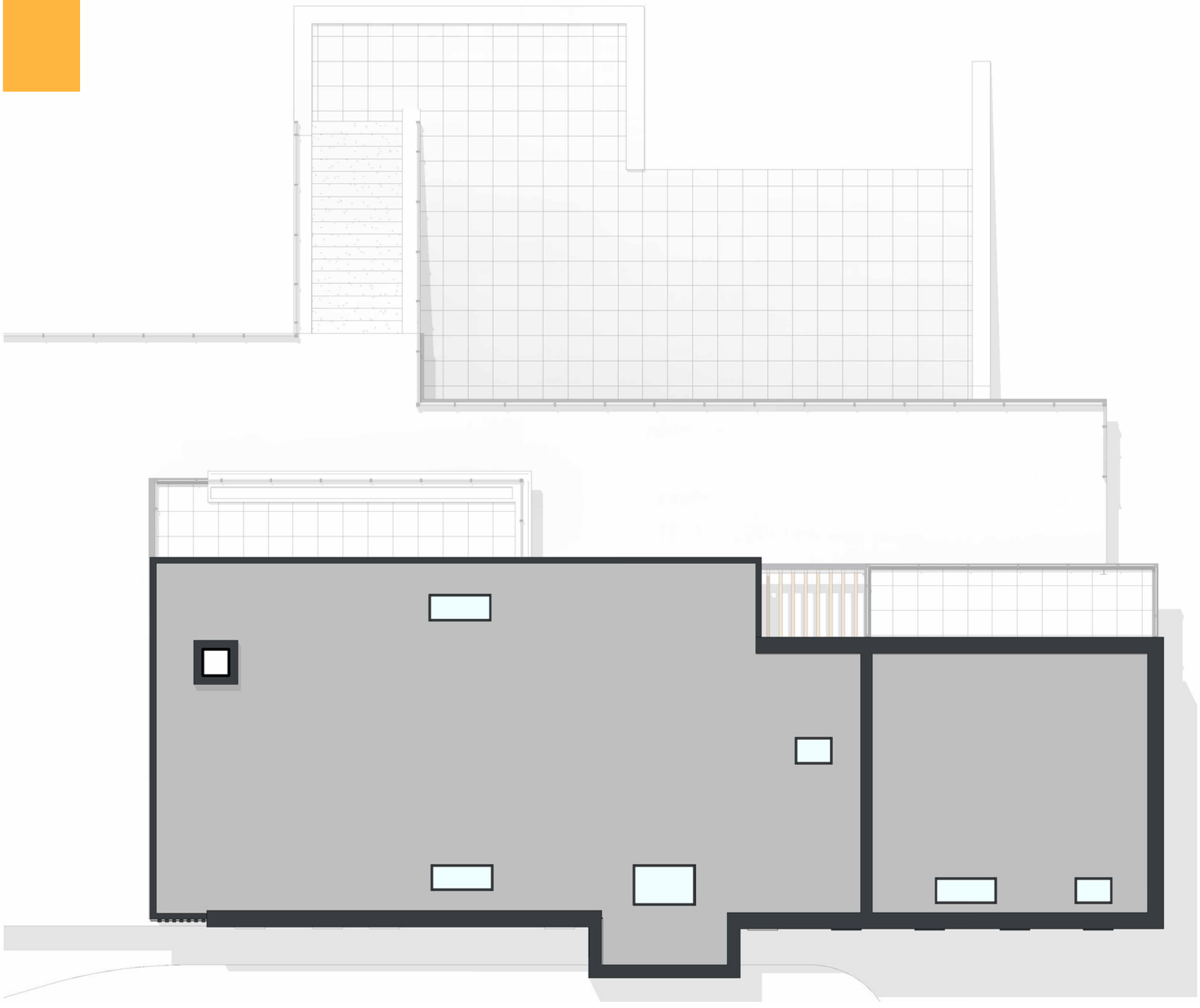

Roof

1 : 100

Do not scale from drawing. AM2 Ltd accept no responsibility for any dimensions obtained by measuring or scaling from this drawing and no reliance should be placed on such dimensions. If no dimension is given, it is the responsibility of the recipient to obtain the dimension specifically from the author or by site measurement.
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PROPOSED ELEVATIONS 01 . . .

0699-AM2-PE01

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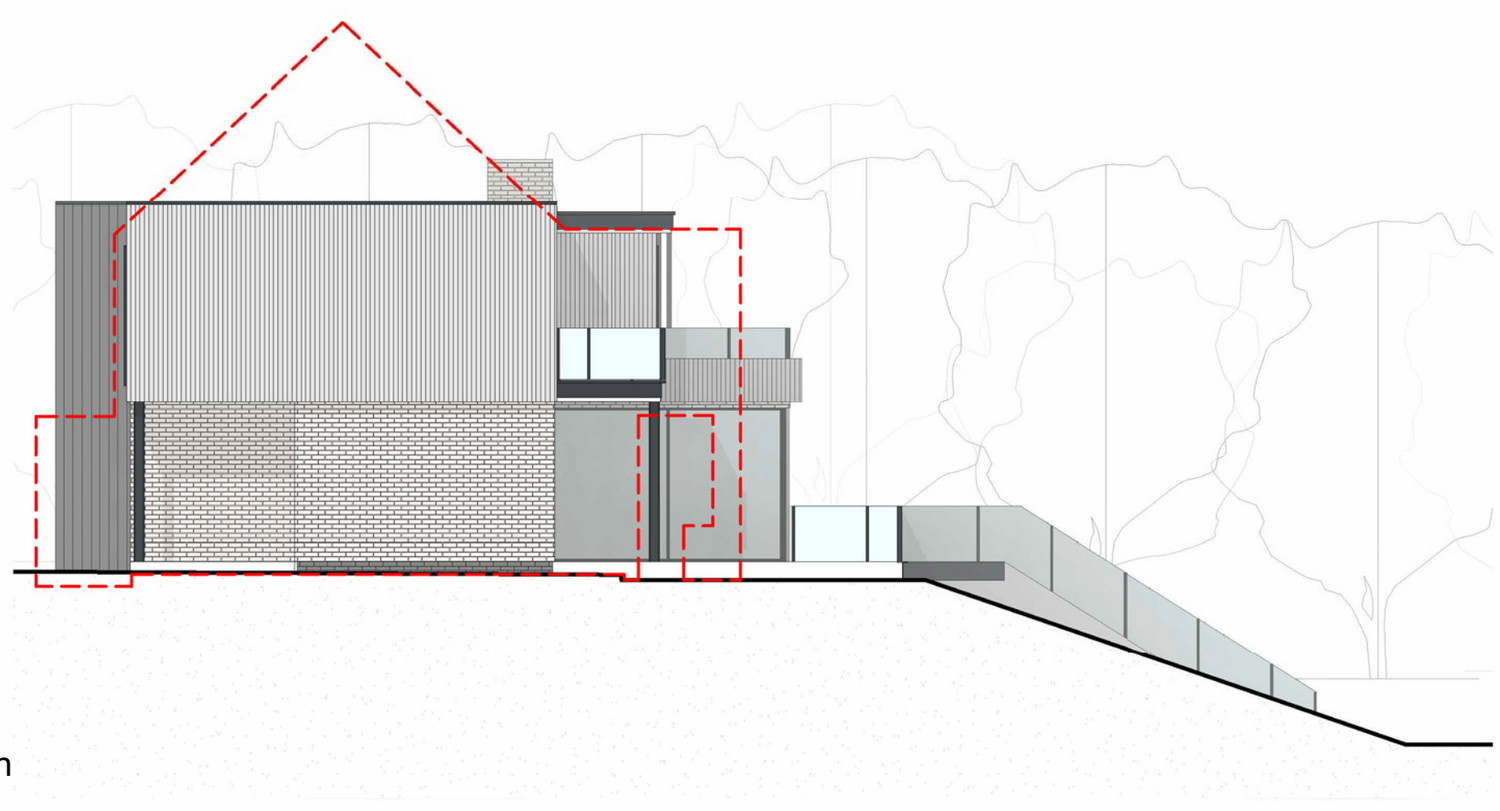
East

1 : 100



North

1 : 100

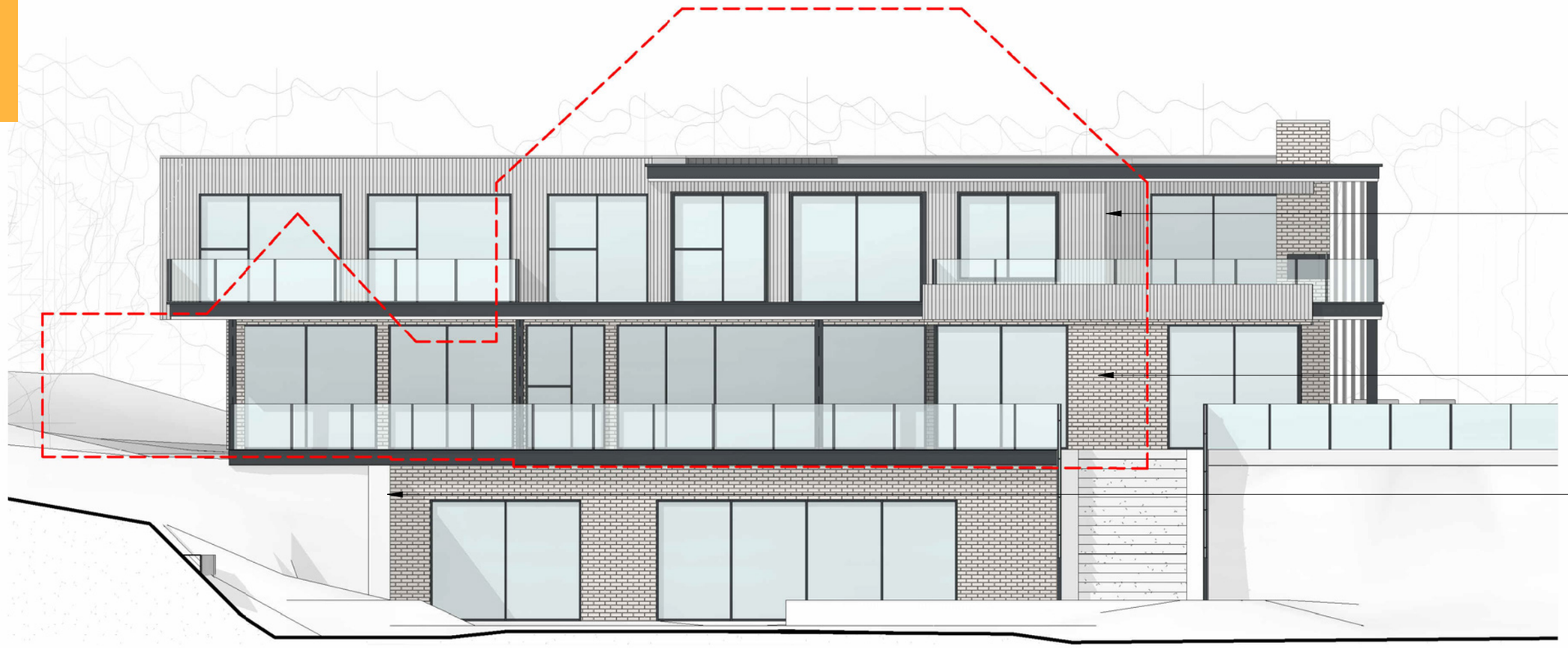
SCALE 1:100

0 1 5 10 m

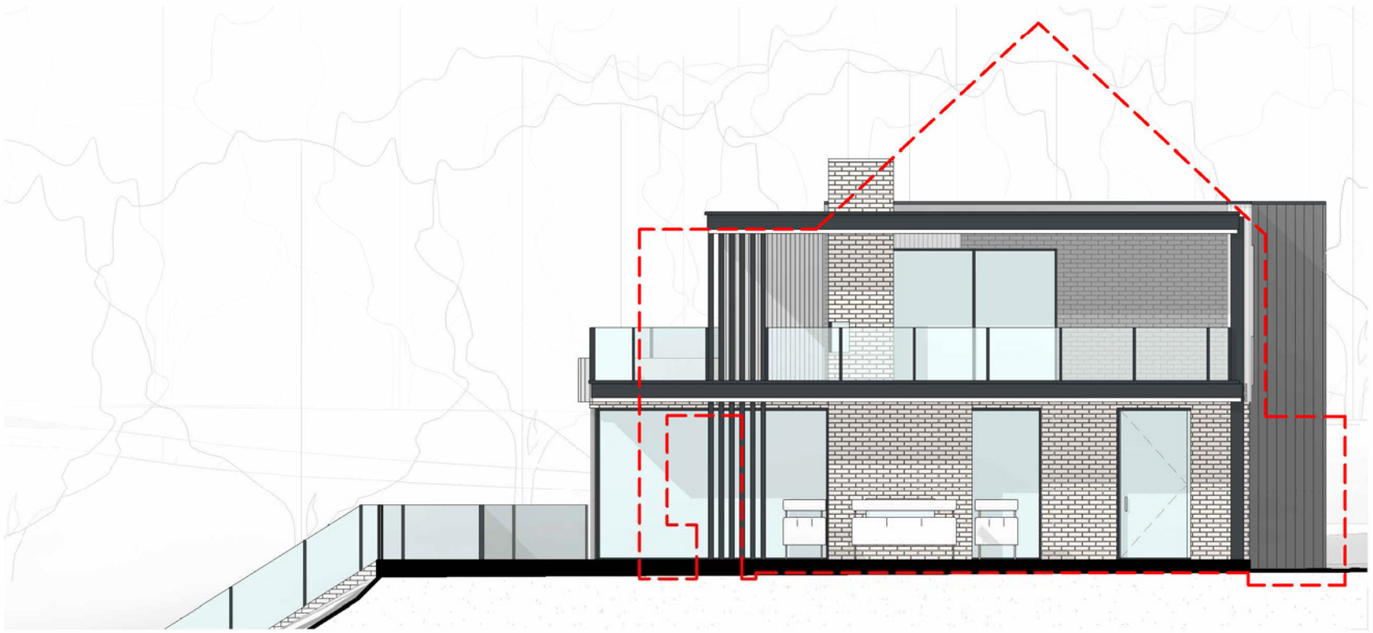
PROPOSED ELEVATIONS 02 . . .

0699-AM2-PE02

144 NOTTINGHAM RD, RAVENSHEAD, NOTTINGHAM, NG15 9HL



West
1 : 100



South
1 : 100

Do not scale from drawing. AM2 Ltd accept no responsibility for any dimensions obtained by measuring or scaling from this drawing and no reliance should be placed on such dimensions. If no dimension is given, it is the responsibility of the recipient to obtain the dimension specifically from the author or by site measurement.
The sizing of all structural and service elements must always be checked against the relevant engineer's drawings. No reliance should be placed upon sizing information shown on this drawing.

SCALE 1:100

0 1 5 10 m

PROPOSED SECTIONS . . .
0699-AM2-PS

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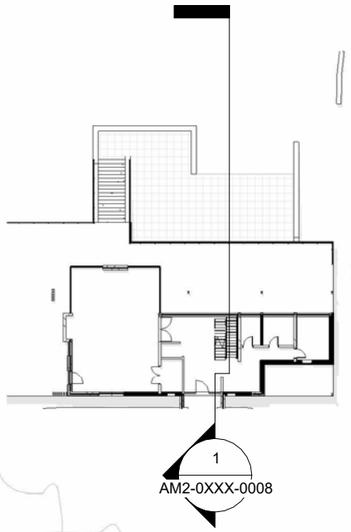
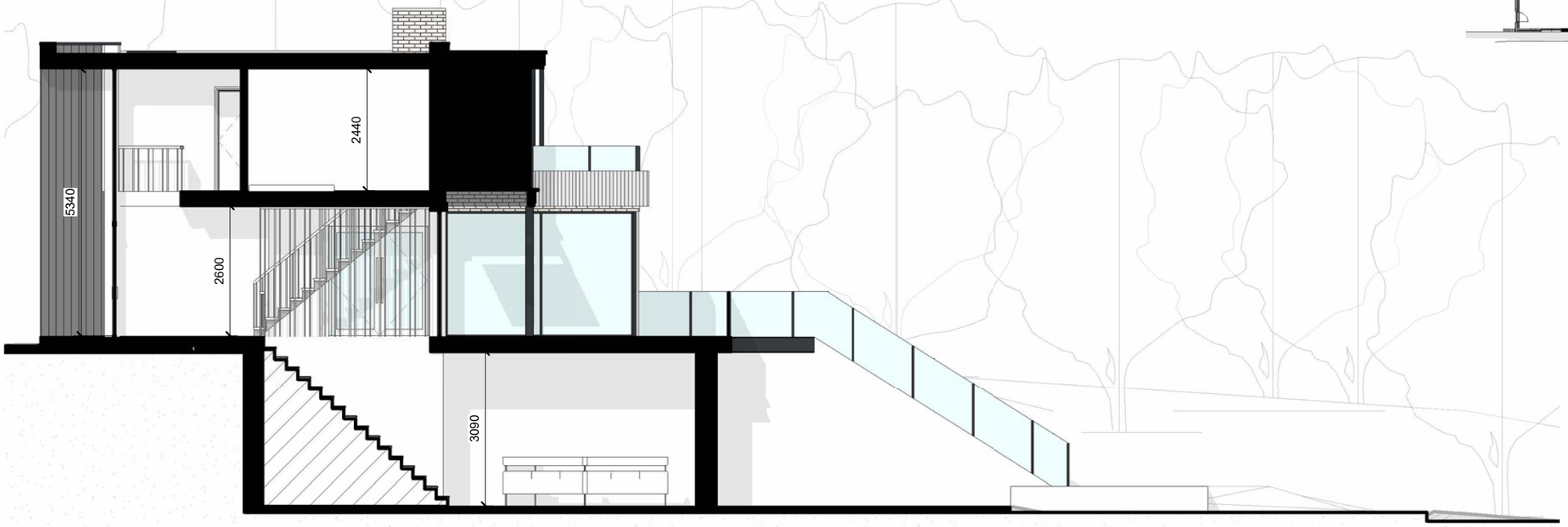


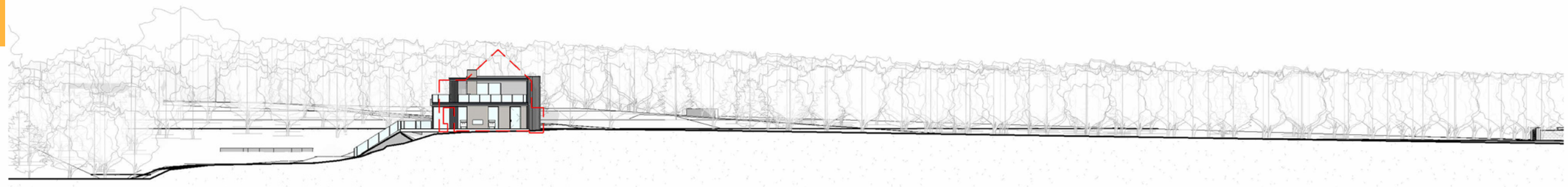


Section 2
1 : 100

SCALE 1:100
0 1 5 10 m

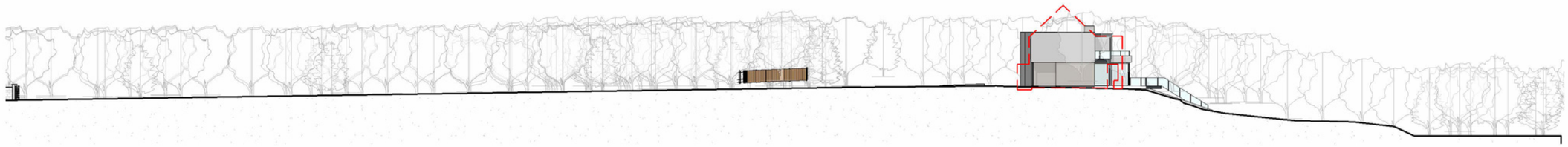
PROPOSED SITE SECTIONS . . .

0699-AM2-PSS



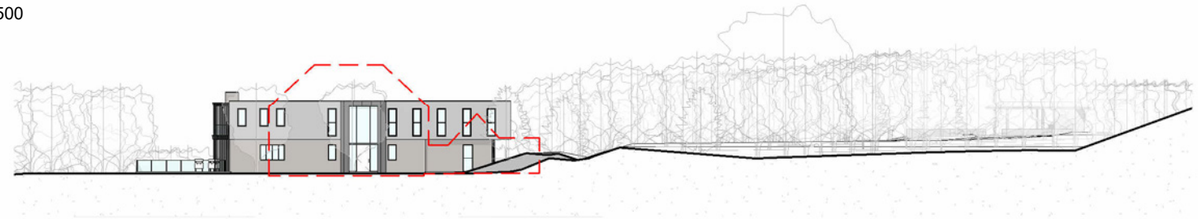
Site Elevation - South

1 : 500



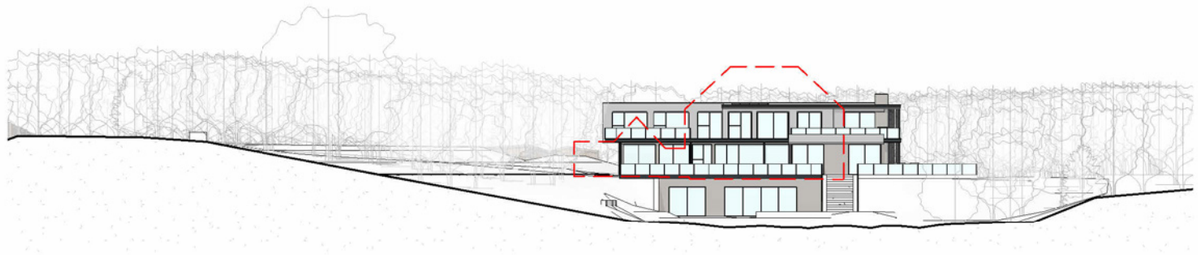
Site Elevation - North

1 : 500



Site Elevation - East

1 : 500



Site Elevation - West

1 : 500

SCALE 1:500

0 5 25 50 m

PROPOSED GATE PLAN . . .

0699-AM2-PGP

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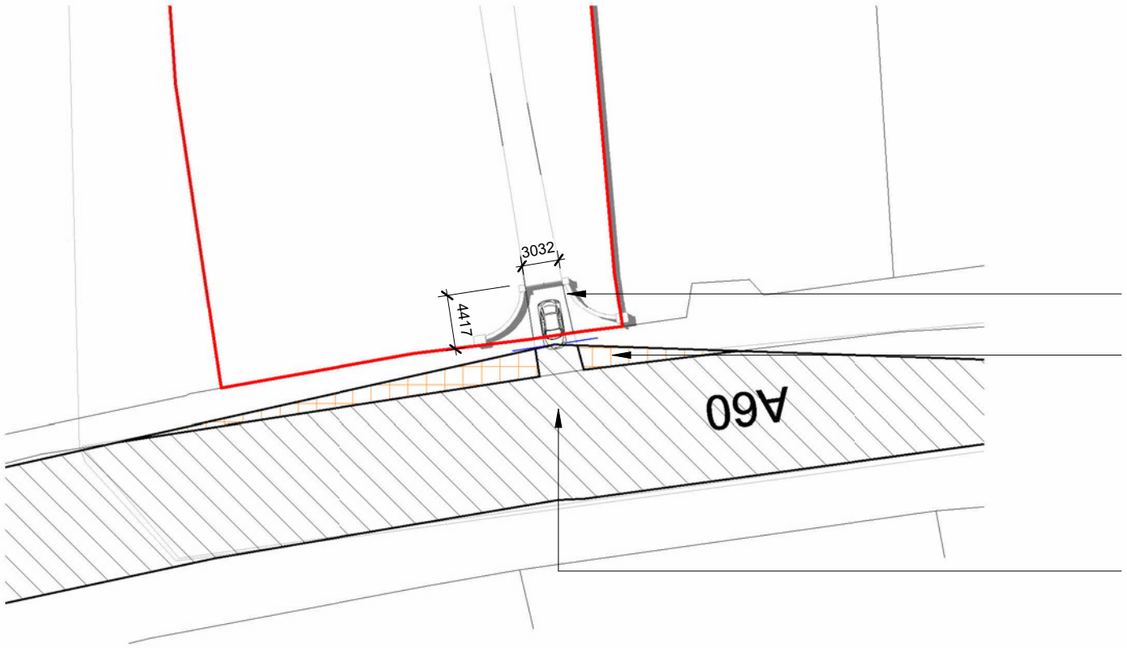


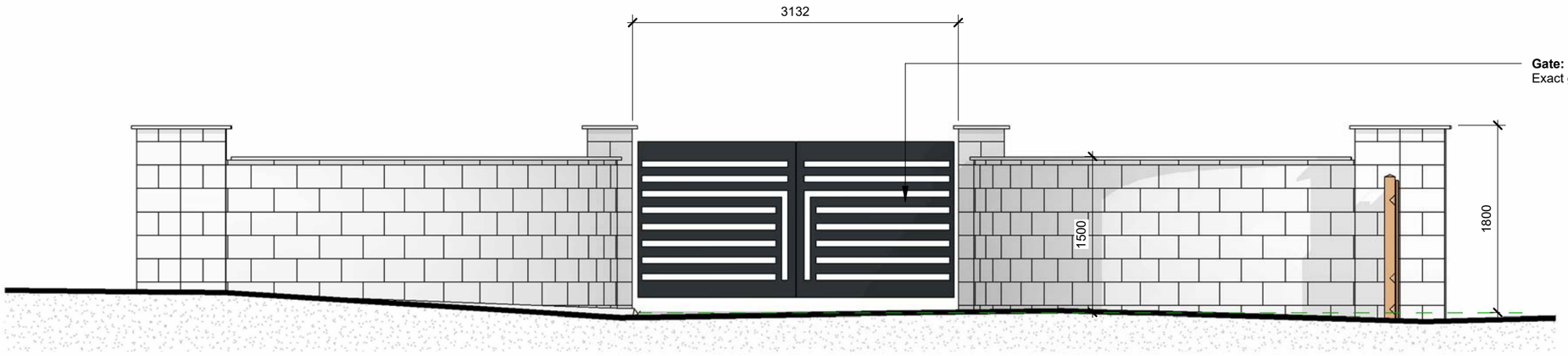
Existing site entrance to be pushed into the site to provide additional space for visibility splays. Existing columns to be used where able. Materials to match eixtsing

Area of Vegetation to be reduced where relevant so not to impair visibility. Max height of vegetation within splay to be a max height of 600mm.

Viability Splay calculation has been made with consideration to the speed limit of the road which is 40mph. The Visibility Splay successfully crosses carriageway providing sight over its entirety over a 65m range minimun.

Gate Site Plan

1 : 500



Gate:
Exact gate design TBC by specialist

Gate Elevation

1 : 50

AREA AND VOLUME STUDIES . . .

0699-AM2-AVCP

Site currently houses 1x Residential Dwelling with garage and various buildings. Proposal would not alter the current use of the site.

AREA STUDY - EXISTING . . .

0699-AM2-ASE

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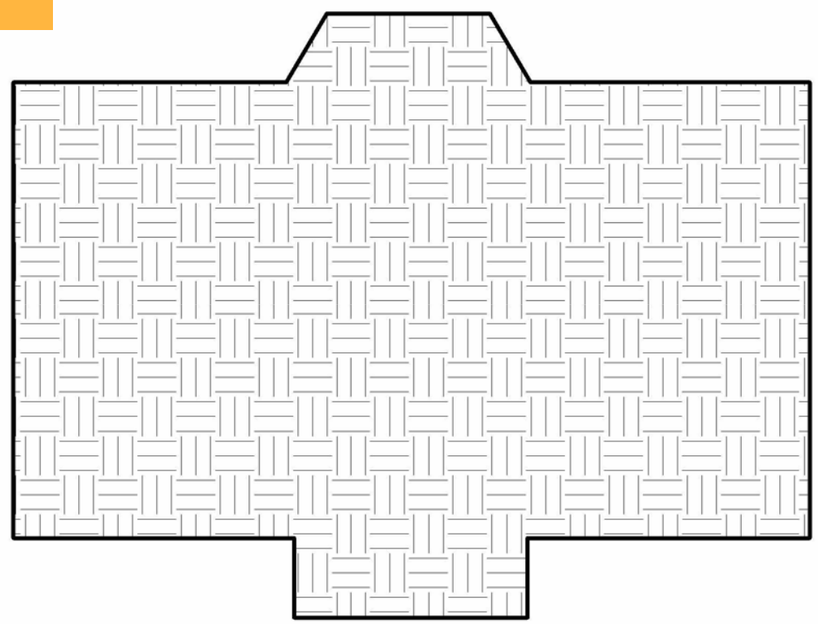
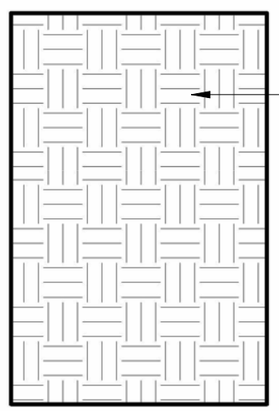
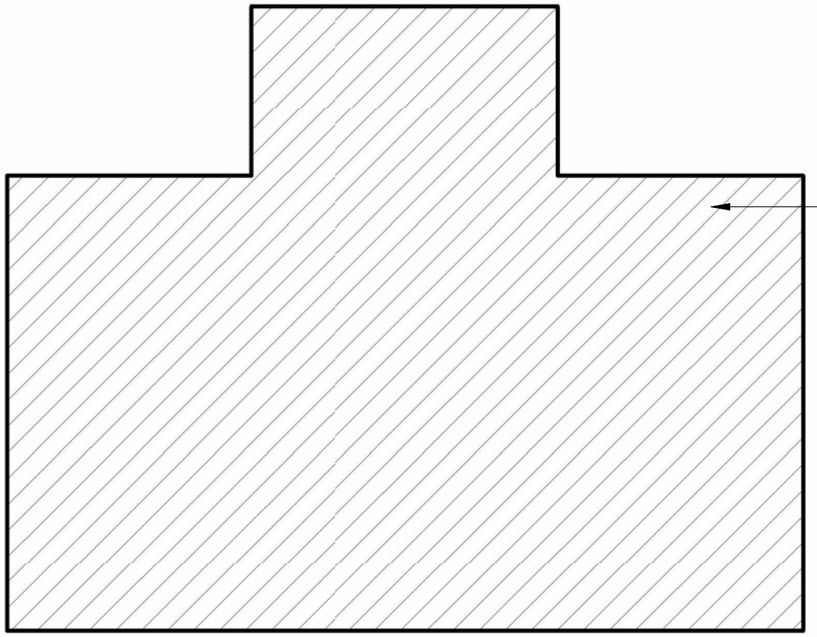




Ground Floor Total GEA = 132m²

Flat roof extensions omitted from calculations



First Floor Total GEA = 110m²

Existing GEA Calculations

Ground Floor GEA- 132m²
First Floor GEA- 110m²²

Total Existing GEA = 242m²

50% Area increase = 363m²

SCALE 1:100

0 1 5 10 m

N

SCALE 1:100 @ A3

AREA STUDY - PROPOSED . . .

0699-AM2-ASP

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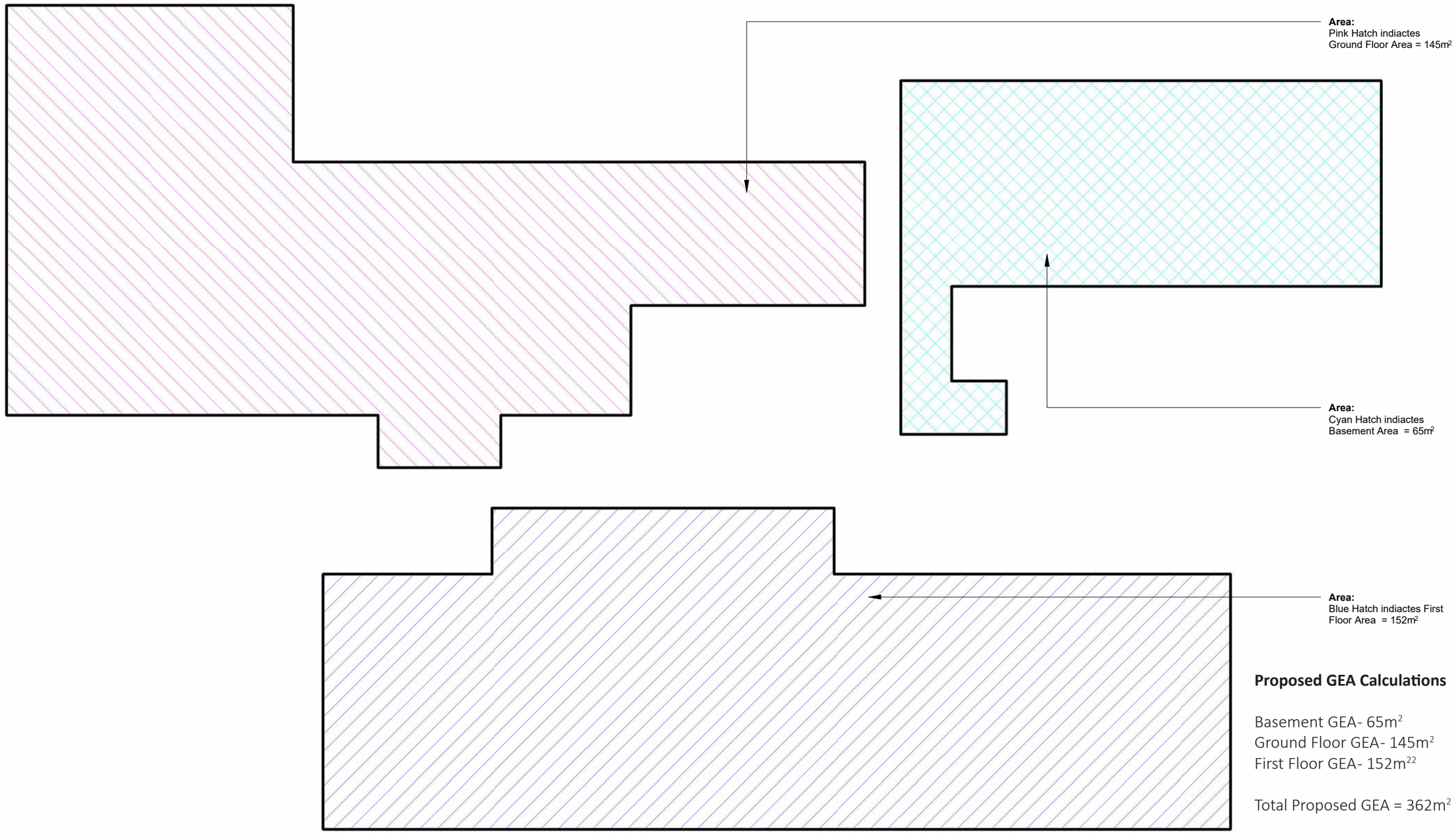
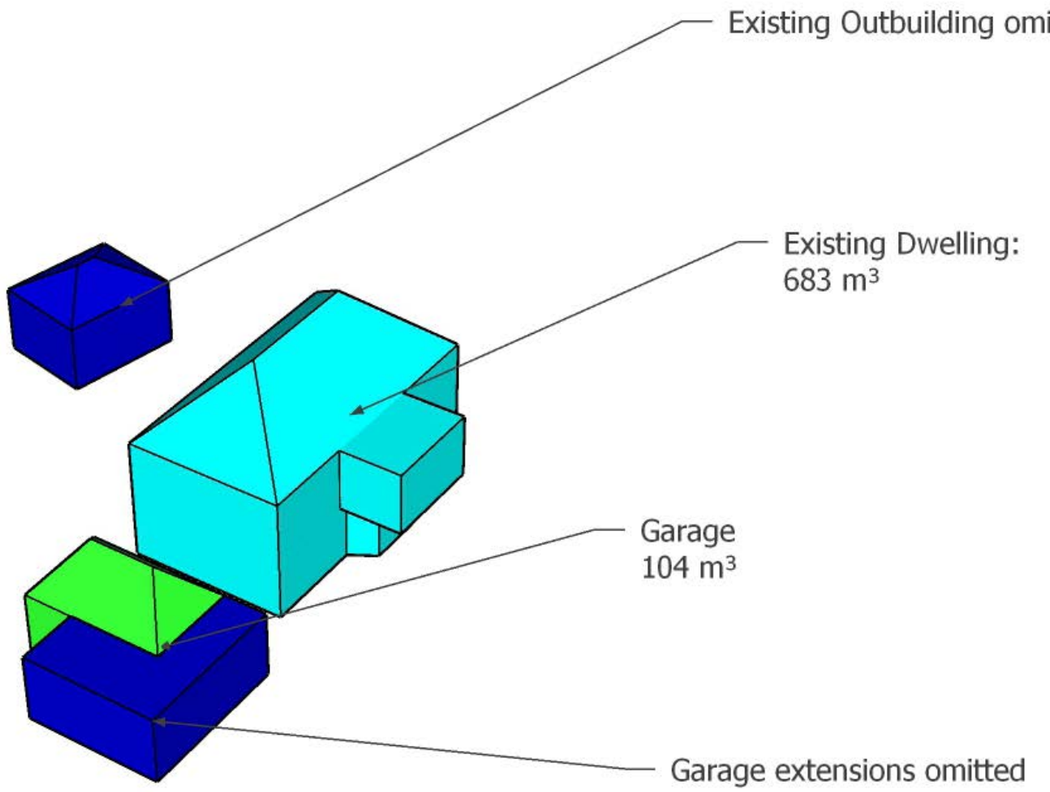


Proposed GEA Calculations

Basement GEA- 65m²
Ground Floor GEA- 145m²
First Floor GEA- 152m²²

Total Proposed GEA = 362m²



VOLUME CALCULATIONS

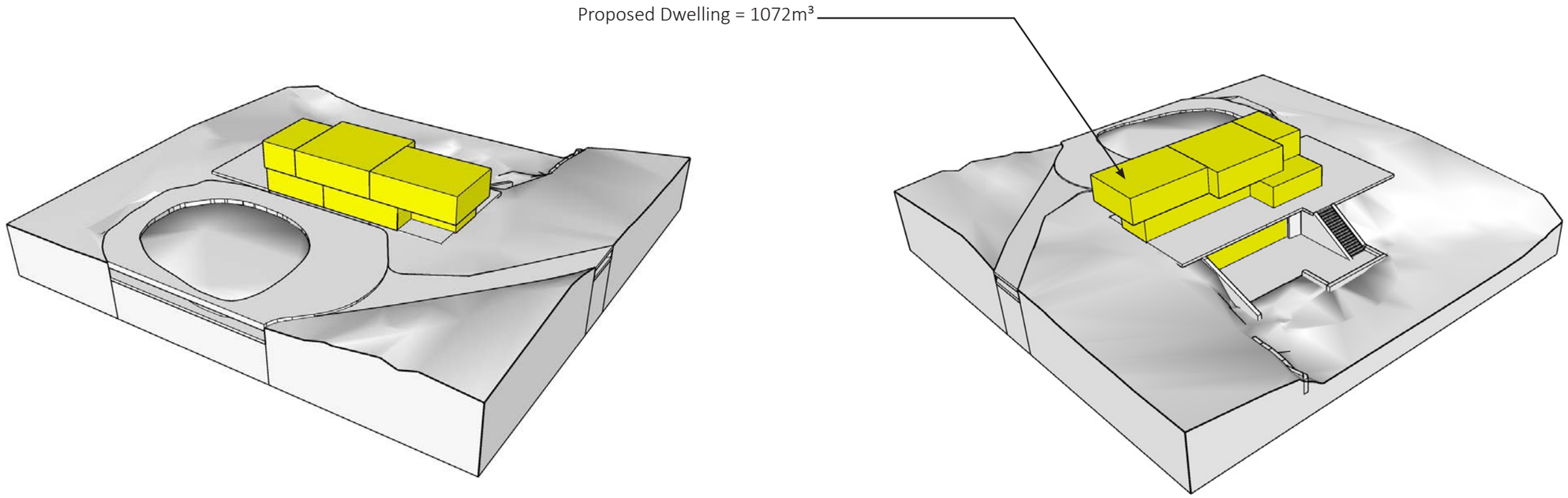
Existing dwelling and Garage 787m³ ÷ 2 = 393.5m³

787m³ + 393.5m³ = 1180.5m³ (50% Increase)

Maximum allowable volume increase = 1180.5m³ (50% Increase from existing)

VOLUME STUDY - PROPOSED . . .

0699-AM2-VSP



VOLUME CALCULATIONS

Proposed Dwelling = 1072m³

Maximum allowable volume increase = 1180.5m³ (50% Increase from existing)

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SUPPLEMENTARY INFORMATION. . .

0699-AM2-SICP

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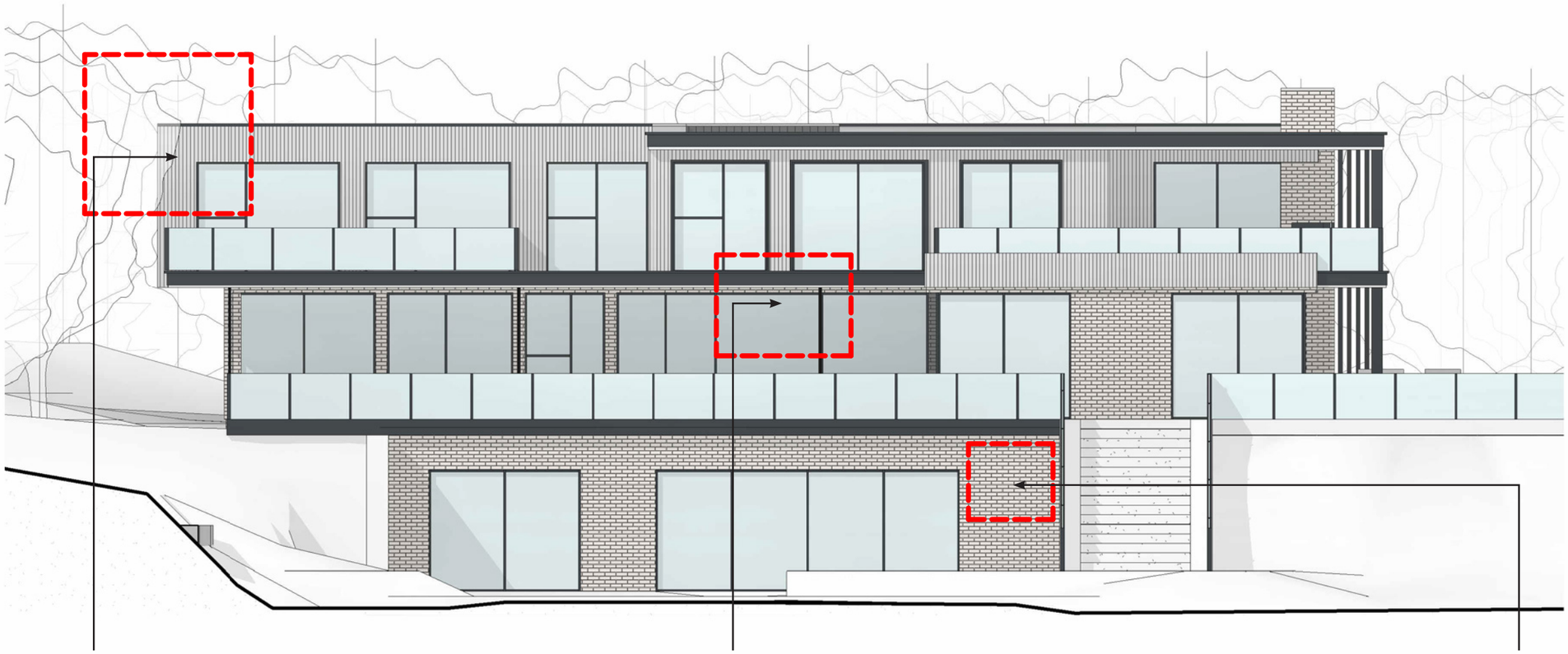
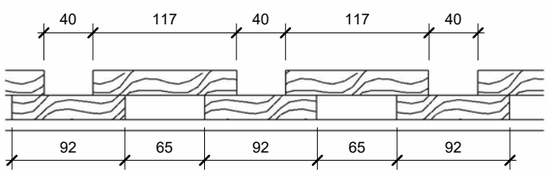
PROPOSED PRECEDENTS 01 . . .

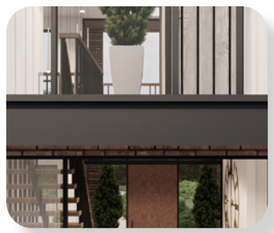
0699-AM2-SI01



Proposed vertical timber cladding - Russwood Abodo®
Vulcan Flatsawn - Profile: board on board “2RA”

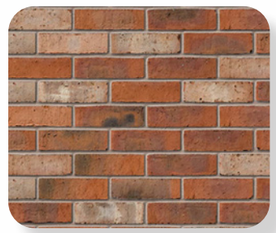


Board on Board Profile



Facia Profile detail example

Porch material to be a seemed metal cladding
colour RAL 7016



Proposed Red brick - Ibstock Beamish Blend -
Profile: Long Format

SCALE 1:150

0 1 5 10 15 m

SUSTAINABILITY STRATEGY . . .

0699-AM2-SI02

The design proposes to utilise a combination of materials which balances its context. It is considered that the proposed dwelling will achieve vastly reduced levels of regulated emissions and energy usage through the adoption of the following measures throughout the design of the proposed scheme:

ENERGY DEMAND

- Building Fabric: The building's fabric will be designed to create a highly efficient thermal envelope. This will involve the use of highly insulated thermal elements, high-performance glazing, and the minimisation of thermal bridges. This will help to reduce heat loss and improve energy efficiency.

- Air Tightness: The building will be designed with excellent air tightness to reduce convective losses and eliminate inefficiencies in building services. This will help to maximise energy efficiency and reduce energy demands.

- Heat Distribution and Control: Intelligent heat distribution and control systems will be implemented to encourage energy-efficient behaviour. This will involve the use of a highly efficient ground/air source heat pump, intelligent zoning technologies, and user-friendly controls.

- Low Energy Lighting and Control: The building will feature highly efficient low-energy lighting and control systems. Natural daylight will be maximised through the use of large glazed openings and lightly coloured surfaces. This will help to reduce energy demands and improve the wellbeing of the occupants.

- Passive Design Principles: A 'fabric first' approach will be taken to create a building that acts as a 'solar collector' to reduce space heating demands. This will be achieved through the intelligent consideration and combination of orientation, shading, fenestration, passive ventilation, mechanical ventilation, mechanical ventilation heat recovery, and thermal zoning.

- Water Consumption: Water consumption will be minimised through the use of low water W/C and appliances. This will help to reduce water demands and improve the building's overall environmental performance.

RENEWABLE ENERGY

After optimising the building design to reduce energy demand, the next step is to consider the use of renewable energy technologies to meet the remaining energy needs. Several variables are taken into account, such as the availability of renewable energy resources or fuels, space limitations, and building orientation.

The proposal incorporates the following renewable technologies:

- Ground Source Heat Pump (GSHP) or Air Source Heat Pump (ASHP): These low-carbon technologies offer greater heating efficiency than direct electricity. They utilise renewable energy from the ground or air to heat the building and provide hot water.

- Photovoltaics (PV) on the roof: PV panels with optimal orientation can generate the energy needed to operate the air source heat pump. By including PV, the building has the potential to become a carbon aware building in accordance with Building Regulations.

- Battery Storage: Surplus solar energy generated by the PV panels can be stored in batteries for use when sunlight is not available or in the event of a power cut. This avoids the need to draw power from the national grid unnecessarily and provides backup power during outages.

EMBODIED CARBON

To minimise the environmental impact of the building, we will try to reduce waste and encourage the reuse or recycling of materials during and after construction. The proposed will consider the following criteria:

- Sustainable and/or Local Sourcing: Materials will be sourced sustainably or locally where possible to reduce the carbon footprint associated with transportation and to support the local economy.

- Environmentally Inert, Long Life, and Low Maintenance Materials: Materials with a long life and low maintenance requirements, which are inherently environmentally inert, will be prioritised to minimise the environmental impact of the building.

- Embodied Energy Reduction: Material and structural choices will aim to reduce the embodied energy of the build by at least 50% and exceed the current government targets for embodied energy in residential buildings.