NEW FOUNDATIONS

Width - 600mm & 450mm
Concrete thickness - min. 300mm
Depth - To comply with the following (unless noted otherwise on the plan drawing):

1. min.1000mm below external ground level.
2. A further 300mm below any tree roots (if applicable)
3. Depth to minimally match existing foundations. If the existing foundations are deeper than the points above, then the new foundations should extend deeper to match the depth of the existing foundations.
4. **To the satisfaction of the local Building Control Officer on site.**
5. To be founded on undisturbed firm ground.

An allowable GBP of 100kN/m² has been conservatively assumed based on likely underlying soil conditions. To be confirmed by the local Building Control Officer on site. Any changes to foundations to be advised to the Structural Engineer for approval.

New foundations to be fixed into existing foundations using H20 dowels resin anchored at max. 200mm c/c, where applicable.

If in doubt, contact the Structural Engineer for further guidance.

MASONRY SPECIFICATION (BELOW DPC)

Internal walls and inner leaf of cavity walls are to be built in min. 7.3N blocks laid in class (ii) mortar.
External leaf of cavity wall to be built in F2, S2 min. 10N bricks laid in class (ii) mortar.

LEGEND

B&B 1 — Denotes span of ground floor beam and block system.

Provide 155mm deep T beams with medium density infill blocks at beam centres of 285mm (N - Narrow).

Notes:
Alternative beam and block spacing may be used, subject to Structural Engineers approval.

B&B 2 — Denotes span of ground floor beam and block system.

Provide 155mm deep T beams with medium density infill blocks at beam centres of 510mm (W - Wide).

Confirmation of specification for B&B floor to be confirmed by the chosen suppliers prior to ordering material and commencing works

STEEL POST AND PAD FOUNDATION DETAILS

C1 & C2

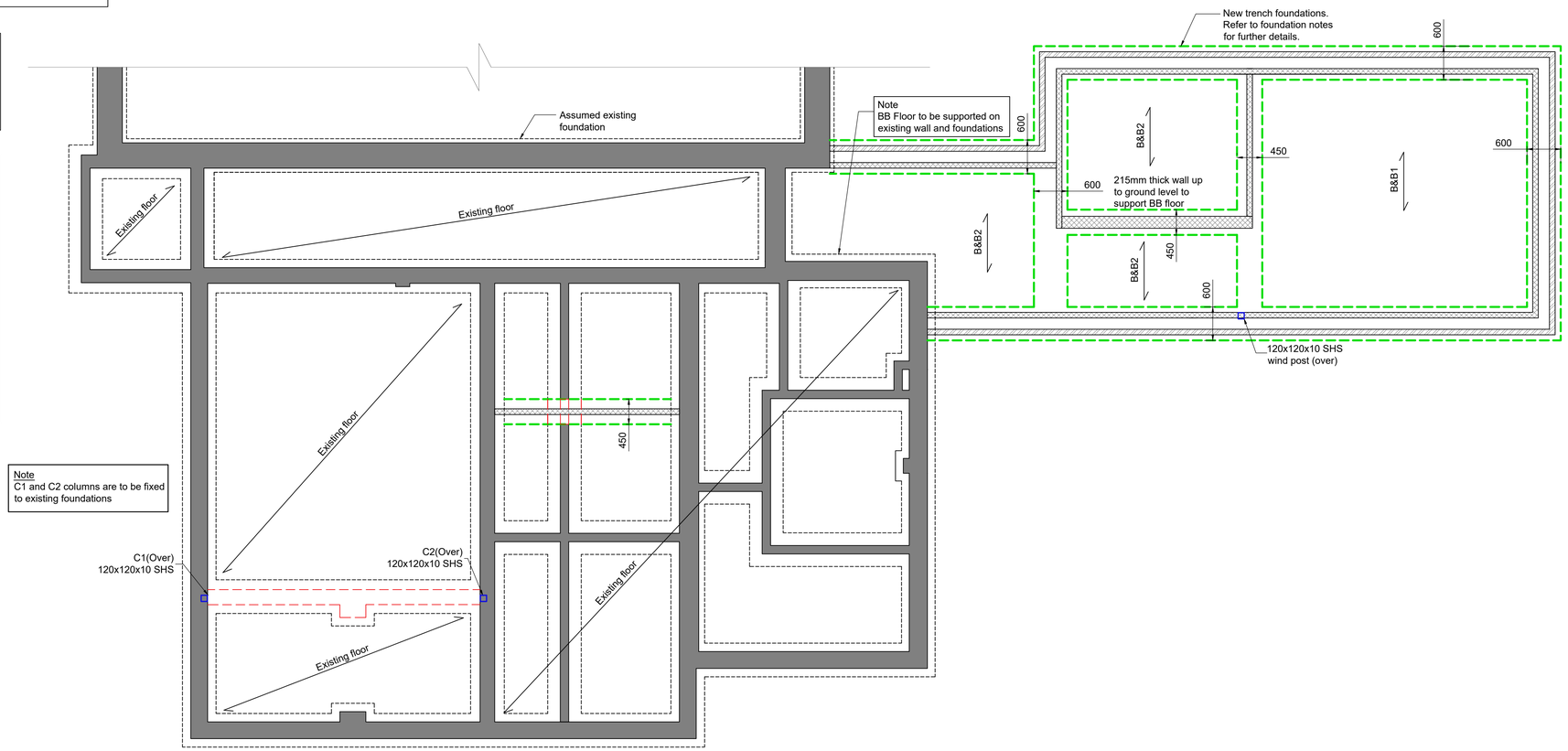
120x120x10 mm SHS steel post .

Post to be fixed to wall using appropriate ties/straps @ max. 450mm c-c vertically.

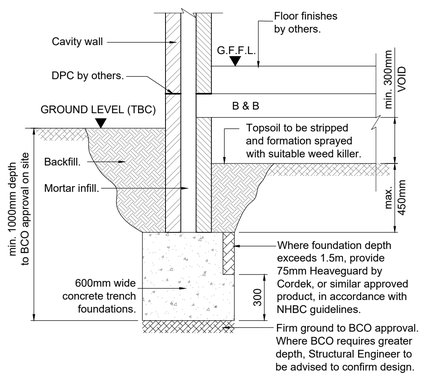
Post to be supported by existing foundations

Post to be fixed to existing foundation using a min. 300mm x 300mm x 20mm thick plate with 4M20 bolts (grade 8.8).

Final connection details to be provided by the steel fabricator.



Proposed Foundation Plan
(Showing structure below)
(1:50)



Typical Foundation Detail
(Showing schematic section)
(NTS)

General

1. The copyright of this drawing is held by Haus Structures Ltd and it may not be reproduced in whole or part without the express permission of the copyright holder.

2. This drawing is to be read in conjunction with all relevant architect's, supplier's, manufacturer's and Haus Structures Ltd drawings, calculations and specifications.

3. Dimensions shown are in mm (unless noted otherwise).

4. Do not scale directly from this drawing for ordering of materials or setting out of works. Exact measurements should be taken on site by the contractor. Work only to figured dimensions where provided.

5. It is the responsibility of the contractor to maintain the stability and integrity of the structure, and adjacent structures during construction.

6. The contractor is to open up the structure to confirm assumptions at the start of the project and prior to ordering of any materials. Structural Engineer to be consulted if any differences are found.

7. Contractor is to ensure that all works comply with current Codes of Practice, British Standards and Building Regulations.

8. Contractor to establish with the local authority their requirements for inspecting the works from the beginning of the project and adhere to these.

Steel

1. Steel connections are to be detailed and designed by the fabricator taking into account the loadings outlined in the calculations and/or on the drawing (unless specific details are provided by the Structural Engineer).

2. All steelwork to be high yield (S355) unless noted otherwise.

3. Steel beams to be dry packed up to existing structure over to ensure full load transfer and prevent settlement cracks.

4. All internal steelwork to be clad to comply with minimum fire resistance in according with Building Regulation requirements.

5. All internal steelwork should be protected with at least two coats of zinc phosphate primer.

6. All external steelwork should be hot dip galvanised.

REV:	DESCRIPTION:	BY:	DATE:
A	Updateed to latest Architectural drawings	DG	02.07.2025

STATUS: FOR CONSTRUCTION

Haus Structures
Consulting Structural Engineers

Haus Structures Ltd.
The Long Barn, Down Farm
Cobham Park Road,
Surrey KT11 3NE

www.haus-structures.co.uk

CLIENT: Horley Town Council

PROJECT: 92 Albert Road Horley Surrey RH6 7HZ

TITLE: Proposed Foundation Plan

SCALE AT A1:	DATE:	CHARTERED ENGINEER:
1:50 (U.N.O)	July 2025	DG

PROJECT NO:	DRAWING NO:	REVISION:
25039	001	A

LEGEND

- To be demolished
- ECJ — Assumed span of existing ceiling joists. Span to be confirmed prior to ordering of any materials. Refer back to Structural Engineer if different to assumed.
- CJ1 — Span of new 47x150mm C24 ceiling joists @ 400mm centres.
- PS1 (Marked) — 330x100x215mm deep precast concrete padstone (min.C30)
- L1 — Catnic Standard Duty Lintel - CG (or similar approved). Lintel to have minimum 150mm bearing at both ends onto masonry and installed in accordance with the manufacturers recommendations.
- L2 — Catnic Heavy Duty Lintel(or similar approved). Lintel to have minimum 150mm bearing at both ends onto masonry and installed in accordance with the manufacturers recommendations.
- L3 — 100mm (w) x 140mm (d) prestressed concrete lintel supplied by Naylor Concrete, Ref: R6, or similar approved. To be installed with 150mm end bearings and installed in accordance with the manufacturers recommendations.

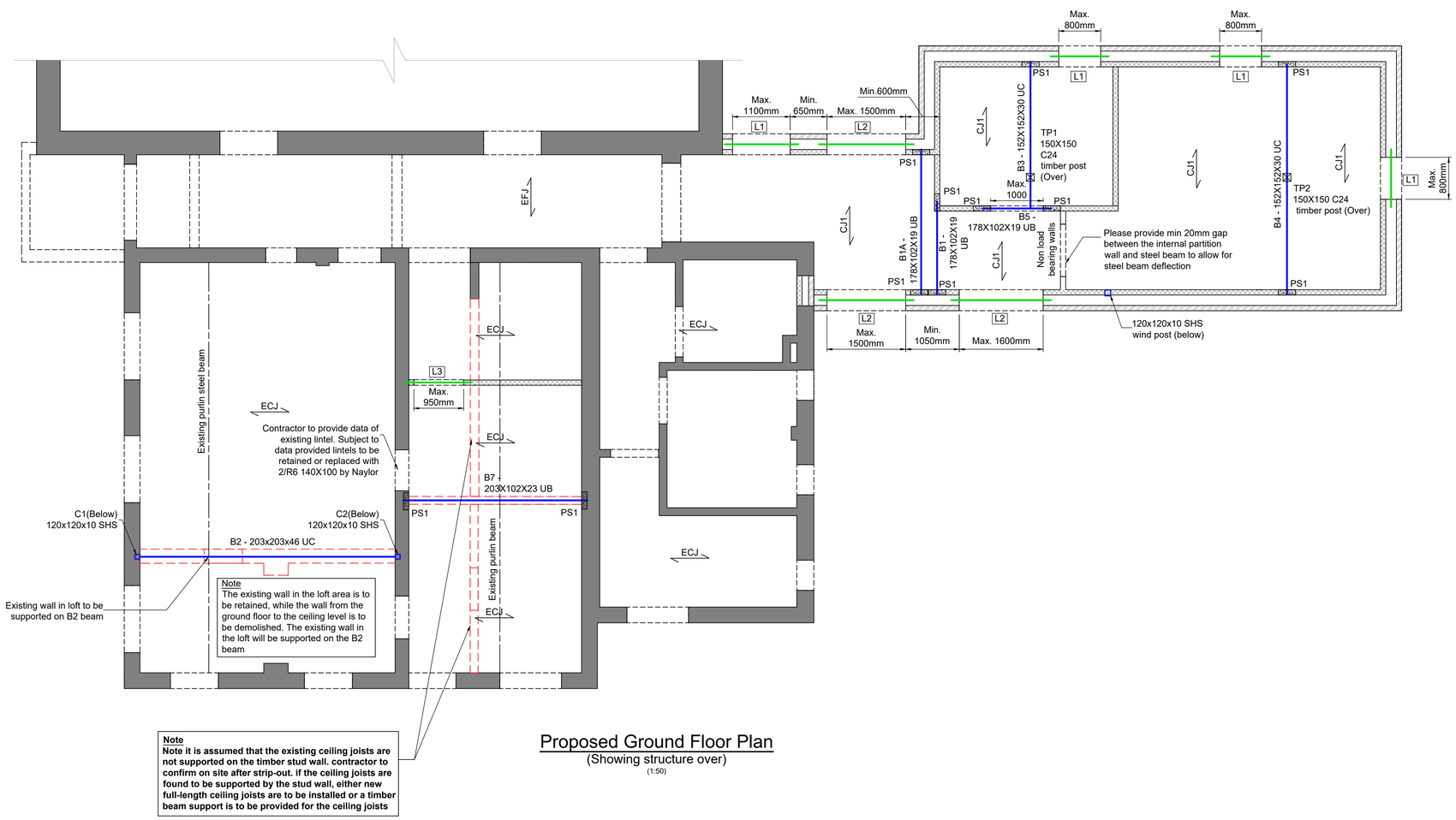
PLATE FOR STEEL BEAMS

A 12mm thick steel plate may be welded to the bottom of beams B5 & B6, if additional bearing area is required for the structure above.

MASONRY SPECIFICATION (ABOVE DPC)

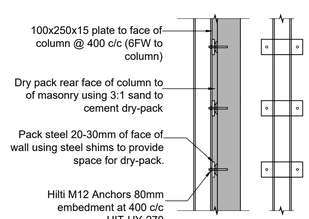
Internal walls and inner leaf of cavity wall are to be built in min. 7.3N blocks laid in class (iii) mortar. External leaf of cavity wall to be built in F2, S2 min. 10N bricks laid in class (iii) mortar.

New masonry to be tooth bonded into existing walls (unless a MJ is shown on plan).



Note
Note it is assumed that the existing ceiling joists are not supported on the timber stud wall. contractor to confirm on site after strip-out. if the ceiling joists are found to be supported by the stud wall, either new full-length ceiling joists are to be installed or a timber beam support is to be provided for the ceiling joists

Proposed Ground Floor Plan
(Showing structure over)
(1:50)



SHS to Exisitng Wall Connection Detail
(Showing schematic section)
(1:20)

0 1.0m 1.5m 2.0m 3.0m
SCALE BAR (1:20)

0 1.0m 1.5m 2.0m 3.0m 5.0m 10.0m
SCALE BAR (1:50)

General

1. The copyright of this drawing is held by Haus Structures Ltd and it may not be reproduced in whole or part without the express permission of the copyright holder.

2. This drawing is to be read in conjunction with all relevant architect's, supplier's, manufacturer's and Haus Structures Ltd drawings, calculations and specifications.

3. Dimensions shown are in mm (unless noted otherwise).

4. Do not scale directly from this drawing for ordering of materials or setting out of works. Exact measurements should be taken on site by the contractor. Work only to figured dimensions where provided.

5. It is the responsibility of the contractor to maintain the stability and integrity of the structure, and adjacent structures during construction.

6. The contractor is to open up the structure to confirm assumptions at the start of the project and prior to ordering of any materials. Structural Engineer to be consulted if any differences are found.

7. Contractor is to ensure that all works comply with current Codes of Practice, British Standards and Building Regulations.

8. Contractor to establish with the local authority their requirements for inspecting the works from the beginning of the project and adhere to these.

Steel

1. Steel connections are to be detailed and designed by the fabricator taking into account the loadings outlined in the calculations and/or on the drawing (unless specific details are provided by the Structural Engineer).

2. All steelwork to be high yield (S355) unless noted otherwise.

3. Steel beams to be dry packed up to existing structure over to ensure full load transfer and prevent settlement cracks.

4. All internal steelwork to be clad to comply with minimum fire resistance in according with Building Regulation requirements.

5. All internal steelwork should be protected with at least two coats of zinc phosphate primer.

6. All external steelwork should be hot dip galvanised.

REV:	DESCRIPTION:	BY:	DATE:
A	Updateed to latest Architectural drawings	DG	02.07.2025

STATUS: FOR CONSTRUCTION

Haus Structures
Consulting Structural Engineers

Haus Structures Ltd.
The Long Barn, Down Farm
Cobham Park Road,
Surrey KT11 3NE
www.haus-structures.co.uk

CLIENT: Horley Town Council

PROJECT: 92 Albert Road Horley Surrey RH6 7HZ

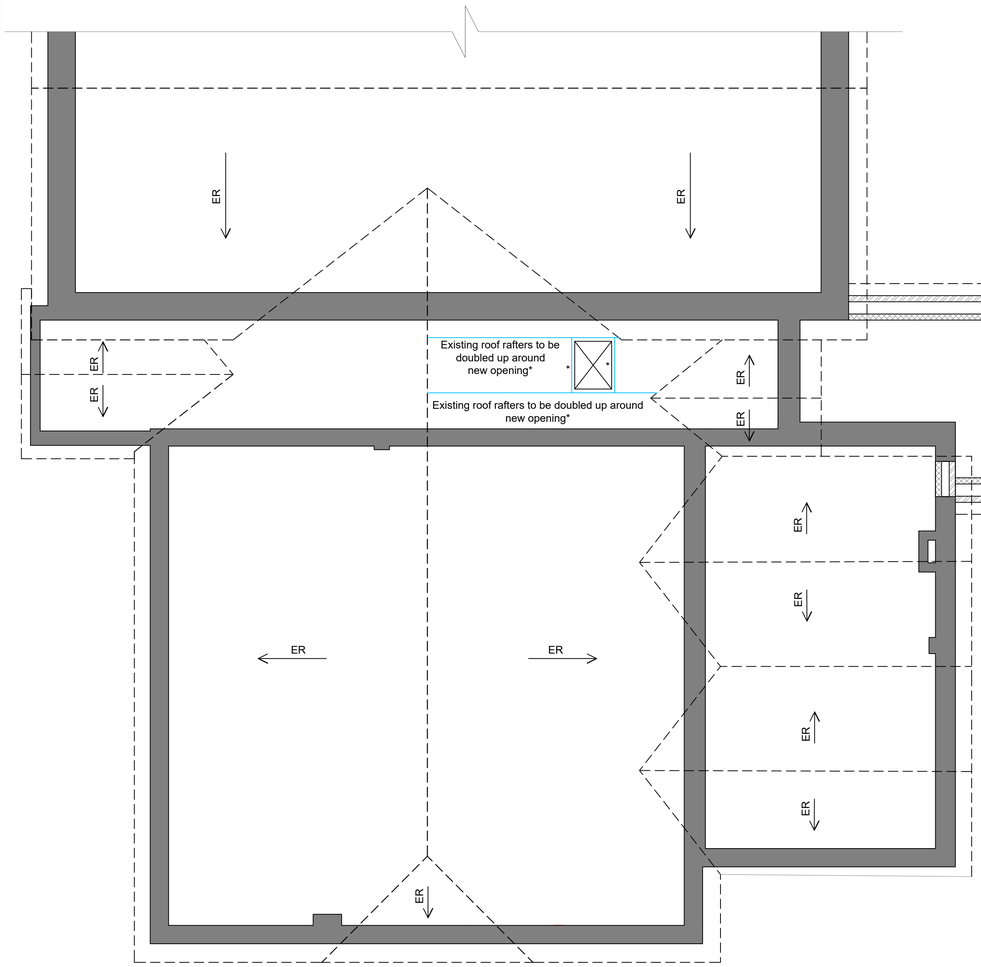
TITLE: Proposed Ground Floor Plan

SCALE AT A1:	DATE:	CHARTERED ENGINEER:
1:50 (U.N.O)	July 2025	DG

PROJECT NO:	DRAWING NO:	REVISION:
25039	002	A

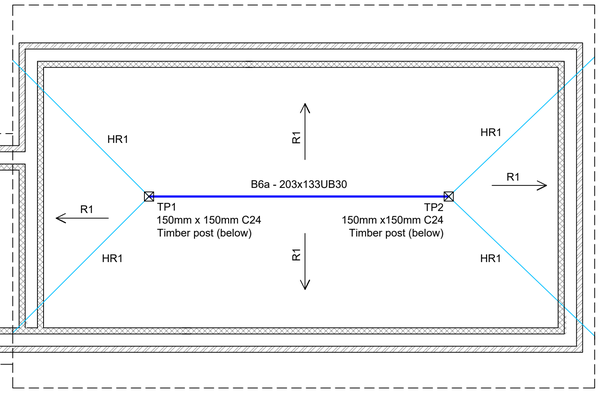
LEGEND

ER →	Denotes the span of the existing rafters.
FRJ1 ⟷	Span of new min.47x150mm C24 flat roof joists @ 400mm centres.
R1 →	Span of new min. 47x150mm C24 rafters @ 400mm centres.
HR1 ———	3No.47x200mm C24 tripled rafters bolted together using M12 bolts @ 400mm staggered centres.

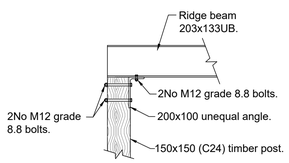


NOTES

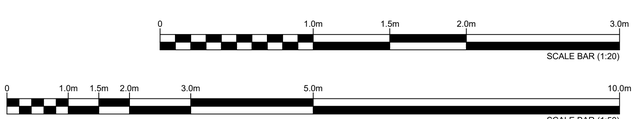
Roof strapping details to be in accordance with Building Regulations.



Proposed Roof Plan
(Showing roof structure)
(1:50)



Ridge beam to posts connection detail
(Showing schematic section)
(1:20)



General

1. The copyright of this drawing is held by Haus Structures Ltd and it may not be reproduced in whole or part without the express permission of the copyright holder.

2. This drawing is to be read in conjunction with all relevant architect's, supplier's, manufacturer's and Haus Structures Ltd drawings, calculations and specifications.

3. Dimensions shown are in mm (unless noted otherwise).

4. Do not scale directly from this drawing for ordering of materials or setting out of works. Exact measurements should be taken on site by the contractor. Work only to figured dimensions where provided.

5. It is the responsibility of the contractor to maintain the stability and integrity of the structure, and adjacent structures during construction.

6. The contractor is to open up the structure to confirm assumptions at the start of the project and prior to ordering of any materials. Structural Engineer to be consulted if any differences are found.

7. Contractor is to ensure that all works comply with current Codes of Practice, British Standards and Building Regulations.

8. Contractor to establish with the local authority their requirements for inspecting the works from the beginning of the project and adhere to these.

Steel

1. Steel connections are to be detailed and designed by the fabricator taking into account the loadings outlined in the calculations and/or on the drawing (unless specific details are provided by the Structural Engineer).

2. All steelwork to be high yield (S355) unless noted otherwise.

3. Steel beams to be dry packed up to existing structure over to ensure full load transfer and prevent settlement cracks.

4. All internal steelwork to be clad to comply with minimum fire resistance in according with Building Regulation requirements.

5. All internal steelwork should be protected with at least two coats of zinc phosphate primer.

6. All external steelwork should be hot dip galvanised.

REV:	DESCRIPTION:	BY:	DATE:
A	Updateed to latest Architectural drawings	DG	02.07.2025

STATUS: FOR CONSTRUCTION

Haus Structures
Consulting Structural Engineers

Haus Structures Ltd.
The Long Barn, Down Farm
Cobham Park Road,
Surrey KT11 3NE
www.haus-structures.co.uk

CLIENT: Horley Town Council

PROJECT: 92 Albert Road Horley Surrey RH6 7HZ

TITLE: Proposed Roof Plan

SCALE AT A1:	DATE:	CHARTERED ENGINEER:
1:50 (U.N.O)	July 2025	DG

PROJECT NO:	DRAWING NO:	REVISION:
25039	003	A