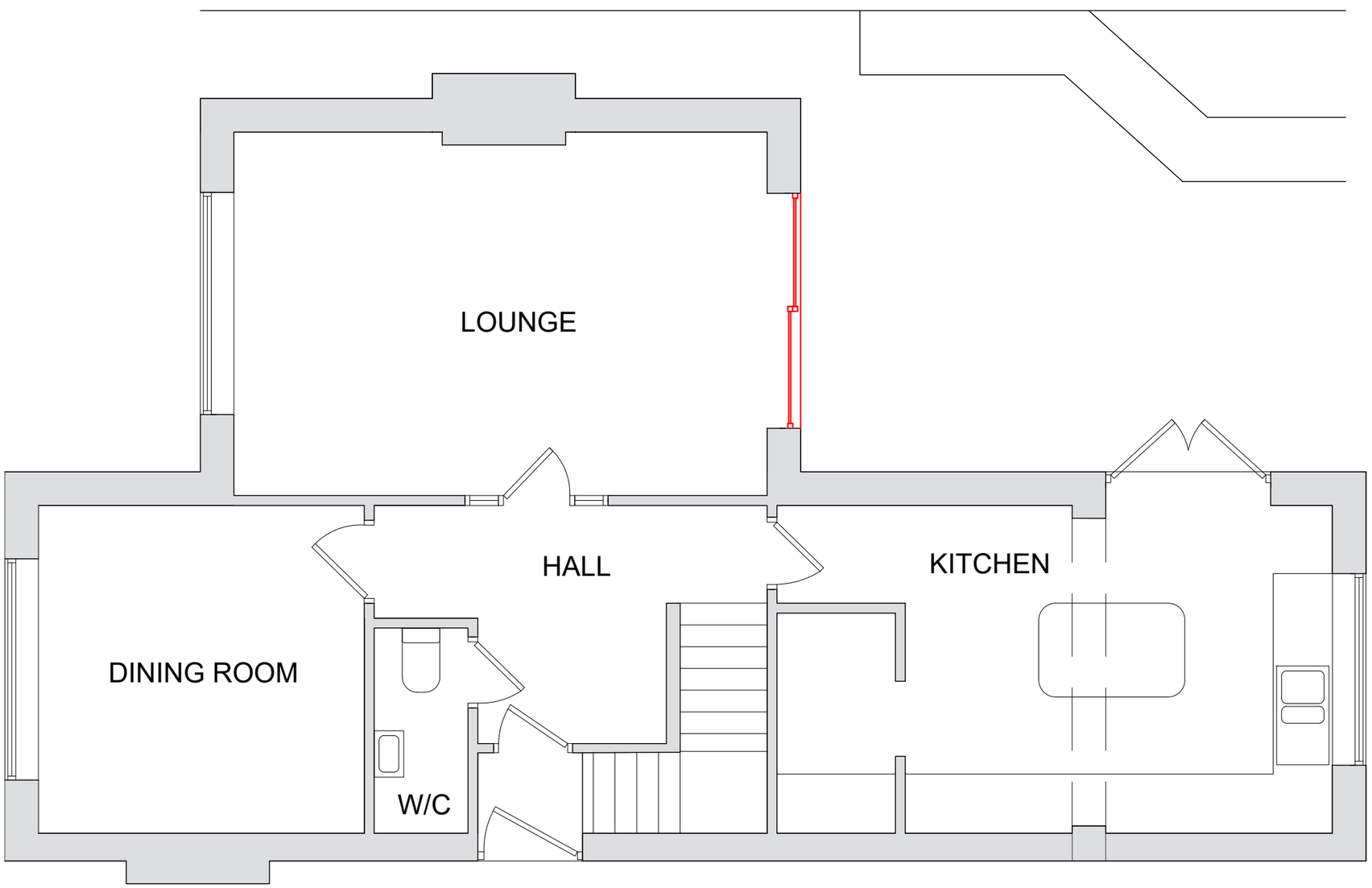

EXISTING GROUND FLOOR PLAN

0 1000 2000 3000 4000 5000

SCALE 1:50 (A3) MILLIMETRES

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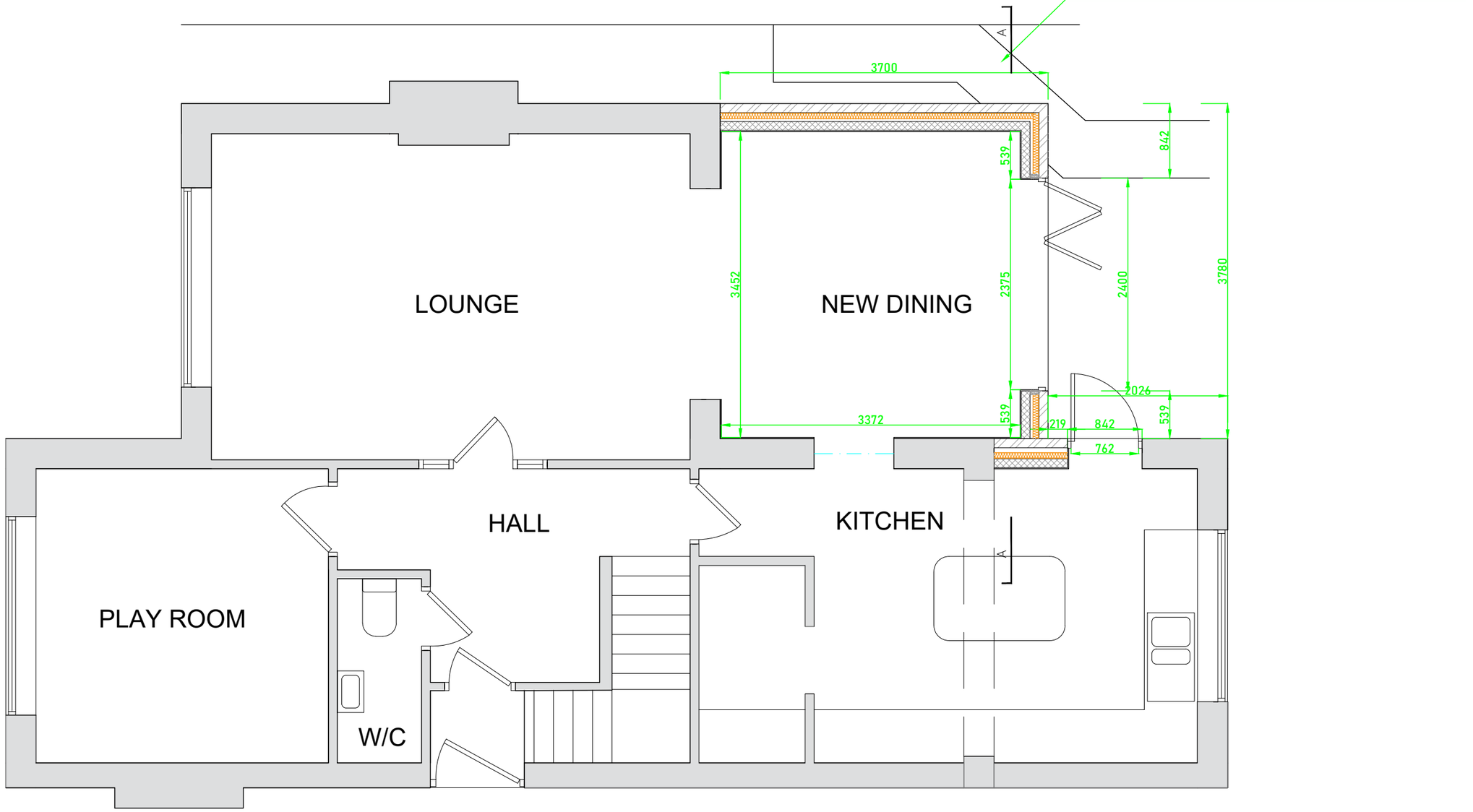
ADDRESS: 44 Mount Pleasant Drive, Belper, DE56 2TH		DRAWING NO: 873 – 1	REV B

Retaining wall and bed:
amended to make way for extension,
with waterproof detailing to suit



PROPOSED GROUND FLOOR PLAN

0 1000 2000 3000 4000 5000

SCALE 1:50 (A3) MILLIMETRES

ALL DIMS IN MILLIMETERS UNLESS NOTED OTHERWISE
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EXISTING FIRST FLOOR PLAN

0 1000 2000 3000 4000 5000

SCALE 1:50 (A3) MILLIMETRES

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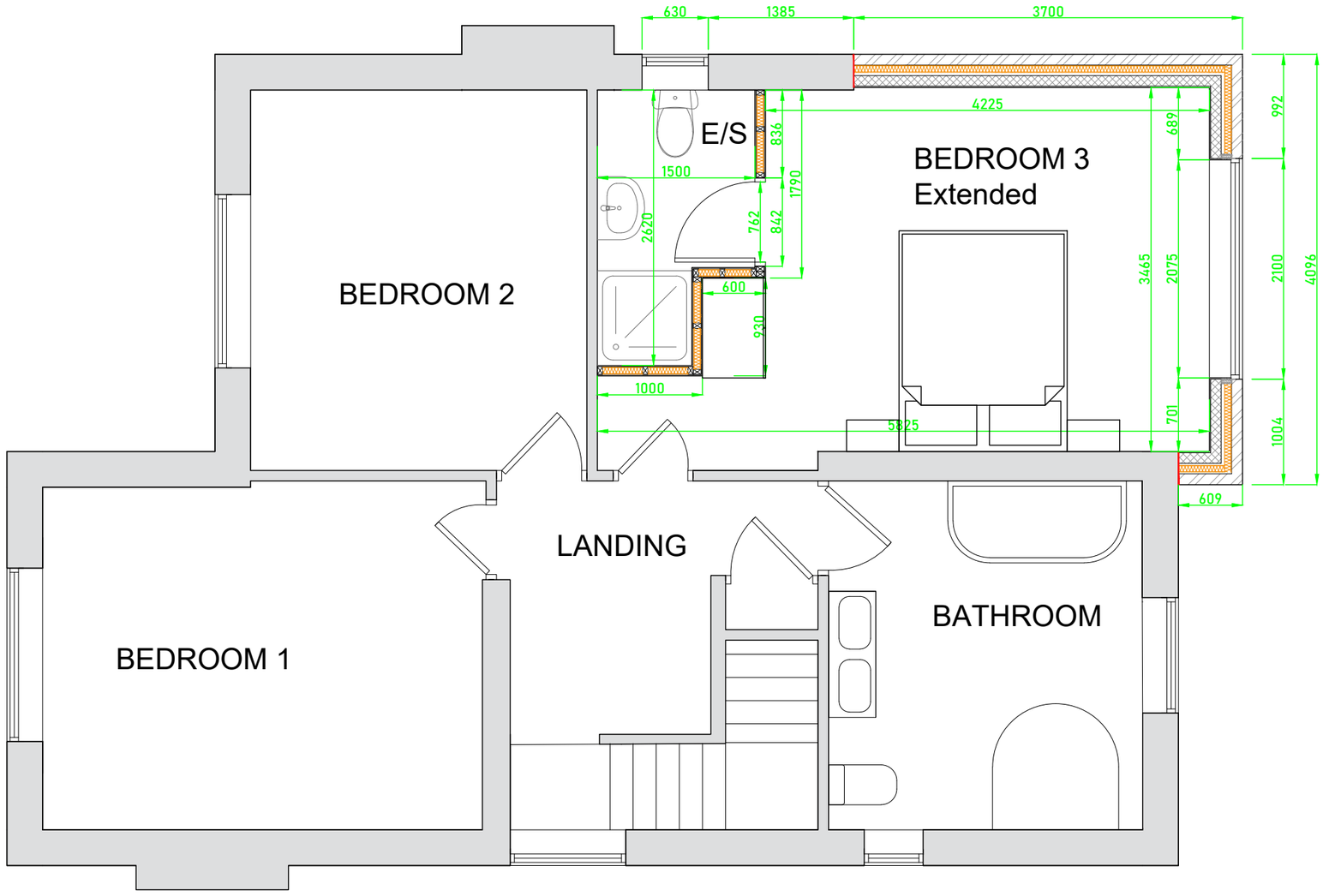

PROPOSED FIRST FLOOR PLAN

0 1000 2000 3000 4000 5000

SCALE 1:50 (A3) MILLIMETRES

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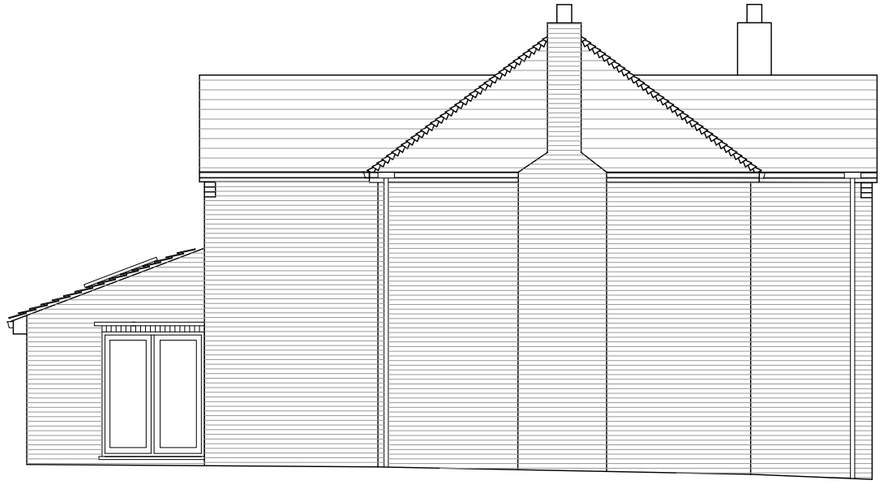
EXISTING FRONT ELEVATION



EXISTING SIDE ELEVATION (EAST)



EXISTING REAR ELEVATION



EXISTING SIDE ELEVATION (WEST)

0 5 10

SCALE 1:100 (A3) METRES

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ADDRESS:		DRAWING NO:	REV
44 Mount Pleasant Drive, Belper, DE56 2TH		873 – 5	B



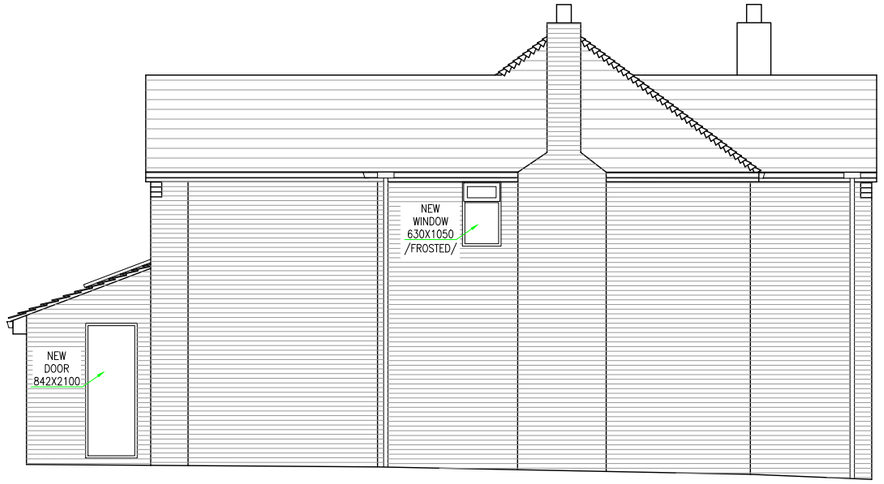
PROPOSED FRONT ELEVATION



PROPOSED SIDE ELEVATION (EAST)



PROPOSED REAR ELEVATION



PROPOSED SIDE ELEVATION (WEST)

0 5 10

SCALE 1:100 (A3) METRES

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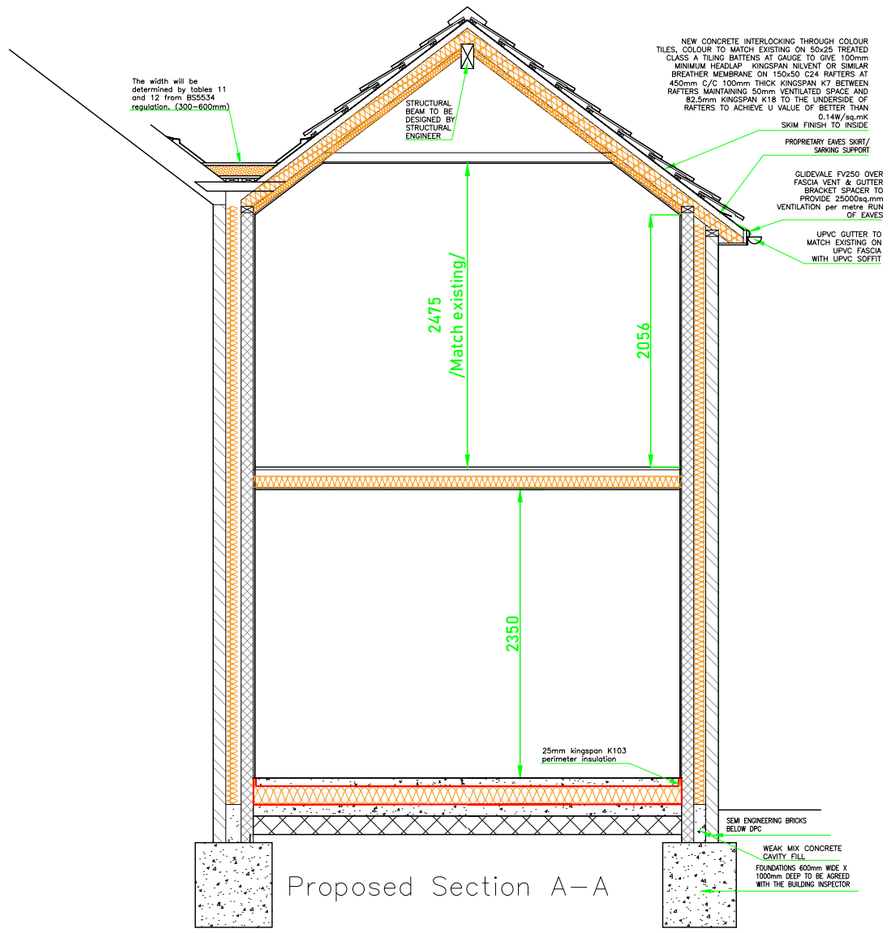
ADDRESS:		DRAWING NO:	REV
44 Mount Pleasant Drive, Belper, DE56 2TH		873 – 6	B



Proposed Section A–A

0 1000 2000 3000 4000 5000

SCALE 1:50 (A3) MILLIMETRES

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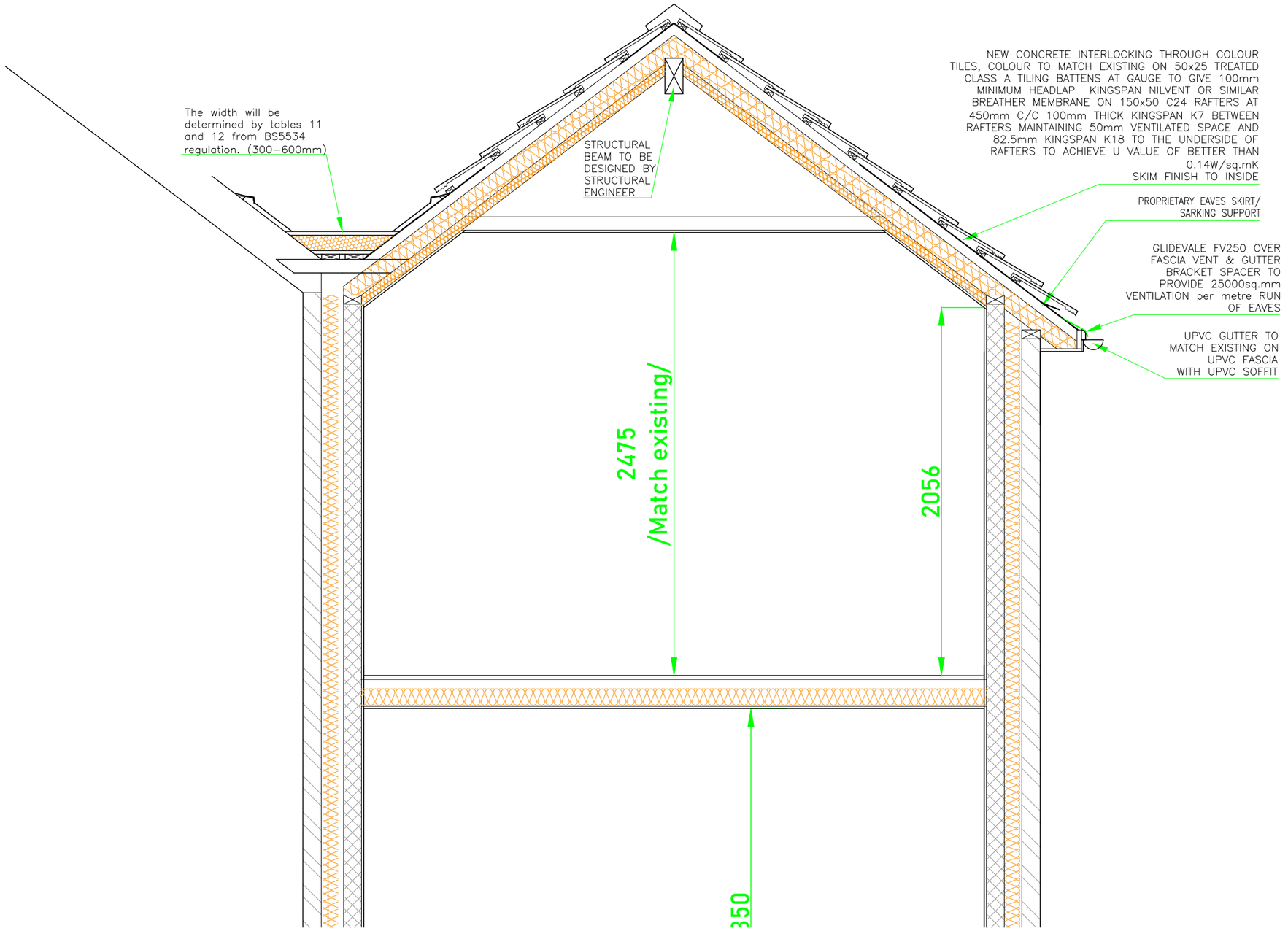

0 0.5 1 1.5 2

SCALE 1:25 (A3) METRES

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ADDRESS: 44 Mount Pleasant Drive, Belper, DE56 2TH		DRAWING NO: 873 – 8	REV B





0 10 20 30 40 50 60 70 80 90 100

SCALE 1:1250 (A3) METRES

0 10 20 30 40 50

SCALE 1:500 (A3) METRES

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Andy Walls	23/07/21	Dipun Gandhi / Ivan Sapov	
ADDRESS: 44 Mount Pleasant Drive, Belper, DE56 2TH		DRAWING NO: 873 – 9	REV B

CONSTRUCTION NOTES

GENERAL NOTE

Before commencement of work, positions of all existing services including drainage are to be ascertained & any protective or diversion works are to be carried out as necessary. Severn trent approval may be required – contractor to check with relevant authority. Existing drainage inverts to be determined to establish adequate falls from new drainage fittings. Any necessary propping and strutting is to be carried out to ensure stability of the structure during building operations. All materials & workmanship are to comply with all building regulations, british standards & codes of practice. All timbers are to be double vacuum pressure impregnated with' Protim Prevac 80' or similar approved preservative, with all site cuts, ends & holes etc to be treated with 'Protim' cut end preservative liberally applied by brush.

Client/builder to carry out site investigation & results to be forwarded to the building control body to establish the levels of contamination if any & the suitability of ground conditions before the works commence.

Builder to check all load bearing elements on site before any works commence on site.

The drawings are prepared to comply with the current building regulations & are to be read in conjunction with all relevant specialist drawings, calculations & details where appropriate.

All dimensions are to be checked on site by builder before work commences, and adhered to in all cases including heights etc. As noted on the drawings. KPD takes no responsibility for any alterations to these drawings.

These drawings are for building regulation approval only. Any work undertaken before approval is obtained is all at the risk of the client and builder. KPD takes no responsibility for any work undertaken at this stage.

Please note these drawings were prepared in compliance with planning and building regulations which were in force at the time of preparation. KPD accepts no responsibility for drawings relied upon, which by virtue of a change in legislation and/or to planning guidelines or building regulations, render the drawings non-compliant with such legisation/guidlines after the preparation of such drawings.

KPD accepts no responsibility for any alterations from the approved drawings.

Nothing in our appointment or provision of drawings shall be deemed to create any appointment as or obligations as a duty holder pursuant to the regulation 7 of the com regulations 2015.

Boundaries shown are for identification only and are not to be taken as a legal definition.

Notes:

1. Upon commencement of the works the size and position of all existing structural elements as shown on the drawing are to be verified by the contractor.
2. Existing timbers shall be exposed to allow complete timber and damp survey as necessary. All timbers shall be treated or replaced in accordance with the specialists recommendations. All timber connections are to be examined by the contractor to verify their integrity and made good of deemed necessary by the inspector. Where wall plates required replacement the new timbers are to be secured by 30x2.5mm galvanised mild steel straps at 1200mm max. ctr's and screwed to existing wall with sno. 50mm long no.12 wood screws in plastic plugs.
3. All new timbers shall be strength class C16 to BS5268 part 2 unless noted otherwise. All new timber connections are to be formed using joists hangers and or framing anchors and clips supplied by 'Expamet' or similar.
4. All existing masonry shall be examined by the contractor any cracked or flaked brickwork shall be repaired or rebuilt to the satisfaction of the client. any loose or soft mortar shall be raked out and repointed.
5. All new steelwork shall comply fully with BS5950. The contractor shall take all necessary site dimensions and levels prior to commencement of fabrication.
6. The contractor shall be responsible for the stability of the existing building whilst carrying out the proposed alterations all temporary works needing propping and shoring to the existing structure shall be designed by the contractor.
7. All new brickwork to have a compressive strength of 21N/mm sq. built in 1:1:6 cement:lime:sand mortar unless stated otherwise.
8. Concrete padstones to be grade C35 10mm maximum size aggregate with 300kgs/m3 o.p.c.
9. Floor joists to be doubled up below new baths
10. Joist size to be deemed by structural engineer

Building regulations approval, cdm regulations, health & safety, temporary work and interim stability

1. The builder shall comply with the building regulations. Any work carried out on site prior to full building regulation approval from the building control body is entirely at the risk of the builder.
2. The builder shall comply with all aspects of the construction (Design & Management) regulations 2015.

2.1 The builder shall carry out his own risk assessments for all aspects of the Works.

2.2 The builder shall provide method statements for the following items of work or items as requested:

a) Excavation below existing foundation levels when in close proximity to existing foundations
b) Underpinning
c) Working with machinery when adjacent to or over existing occupied buildings
d) Erection/installation of steelwork adjacent to or over existing occupied buildings

3. The builder shall maintain records of all on site changes to the drawings and calculations and provide a full set of "marked-up" drawings to show the "as-built" construction.
4. The builder is reminded that the structures stability relies on all structural elements to be completed and cured. The builder is required to consider his construction methods/sequences and to assess temporary works and bracing requirements to ensure the interim stability of partially completed

THE PARTY WALL ACT 1996: The client is responsible for conforming with the Party Wall Act 1996 and obtaining the necessary neighbour agreements in the required period depending on the extent of work to the party wall/boundary.

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Andy Walls	23/07/21	Dipun Gandhi / Ivan Sapov	NTS
ADDRESS: 44 Mount Pleasant Drive, Belper, DE56 2TH		DRAWING NO: 873 – 10	REV B

CONSTRUCTION NOTES

GENERAL
All work to be carried out in full accordance with current Building Regulations and 'robust details' as applicable. All on site operations to be carried out in full accordance with current Health & Safety Regulations and CDM Regulations 1994 as applicable.

SITE CLEARANCE
Site to be cleared of all vegetable matter, turf, concrete etc to a minimum depth of 200mm below existing ground level.

FOUNDATIONS AND FOOTINGS
New ground floor external walls to be taken down to concrete strip or trench fill foundations 600 wide Internal walls to be taken down to strip foundations 440 x 200 thick. Depths to suit site conditions and to Local Authority approval prior to pouring concrete.
Foundations to be grade C.20P to BS.5328:1981 (min. mix 1:3:6) concrete.
Build up external walls in two skins of 7N solid dense concrete blocks using mortar mix 1:3 up to one brick depth below finished ground level. Fill cavity with sand cement mix.

DAMP PROOF COURSE
To be Andersons XTRA–LOAD ELITE or equal approved polymeric DPC. To be installed to inner and outer skins of cavity walls and to all internal blockwork walls, to be located minimum 150mm above finished ground levels to avoid the raise of water through absorption. All joints to be lapped min. 150mm (basic Radon measure).

VERTICAL DPC; at abutments of external cavity wall to solid 215 wall.

Cavity Trays And Weepholes
Cavity trays and weepholes to be provided above structural openings and base of cavity to provide basic radon protection.

Allow for suitable cavity tray and lead flashing to roof abutment as required

Existing DPM to be exposed and suitably extended using lapped and sealed joints to make connection with the new external wall Cavity Tray

INTERNAL BLOCK WALLS
to be single skin lightweight concrete block dry lined with 12.5 plasterboard tapered edge plasterboard, scrim joints and skim with neat Thistle plaster.

EXTERNAL WALLS
Construction to comprise: 103 brick to match existing, 100mm cavity filled with 100mm Drytherm32 100mm Optilyte blockwork, inner lining to be 12.5mm plasterboard on dabs and skim finish. achieving U–val 0.23 W/m^2K
Both leaves of wall construction to be tied together using stainless steel vertical twist ties at 900mm horizontal, 450mm vertical centres and no greater than 300mm at reveals.
Cavities to be closed at reveals with proprietary fire proof closer such as Thermabate.
Brickwork and blockwork attached to existing with Simpson Strong tie masonry connectors or similar ties

WALL TIES
Two and a half wall ties per square metre of masonry with a maximum horizontal spacing is 900mm and a maximum vertical spacing is 450mm. Each wall tie to be set a minimum of 50mm into both masonry leaves. Cavity wall ties to be stainless steel and 225mm in length.
Three courses of blue engineering bricks in 1:3 mortar to all 215mm external walls.

BONDING OF NEW AND EXISTING WALLS
New walls to be secured to existing walls by use of stainless steel Firfix or Crocodile (or S.A.). Fixings in accordance with manufacturers instructions complete with weather strip and mastic pointing. 100mm Dpc behind all wall end ties.

CAVITY
To be cleared of all mortar droppings and closed at all openings at top of wall cavity closers .
Lean mix concrete cavity fill to 225mm min. below DPC.

MORTAR
Shall be at least in strength 1:1:6 Portland cement/lime/fine aggregate mortar measured by volume of dry materials up to the proportions given in BS.5628. mix to be 1:1/2:4 below dpc.

STUDWALLS
1No layers of 12.5mm Gyproc wall board ten (with a minimum mass per unit area of 10Kg/m2) fixed each side of studs, at 150mm crs, with 40mm non–ferrous driwall screws to 100x50 sw treated studs at 450mm crs for 900mm boards + 600mm crs for 1200mm boards. With a sound absorbent layer of Isowool Acoustic partition roll fully filling the wall cavity. All joints to be well sealed. 100x50mm noggins to be fixed to support ends of boards and 900mm crs vertically between studs.

Stud walls to be skimmed with 5mm thistle board finish.
Gyproc moisture resistant board to be used in bathroom areas.

Fill all gaps around internal walls to avoid air paths between rooms.
Where partitions occur at first floor level and run parallel with joists, additional joist is to be inserted and the two bolted together.

Accoustic sealant and intumescent/ accoustic sealant on the 30min walls and ceiling around the garage.

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ADDRESS: 44 Mount Pleasant Drive, Belper, DE56 2TH		DRAWING NO: 873 – 11	REV B

STRUCTURE

FOUNDATIONS, STEEL BEAMS, PURLINS, RAFTERS, LINTELS, FLOOR JOISTS, PADSTONES & BEARINGS, SUSPENDED SOLID FLOORS, BLOCK STRENGTH, LATERAL RESTRAINT, SCREEN WALLS, RETAINING WALLS, ALL MOVEMENT JOINTS , PIER SIZES & STRUCTURAL STABILITY OF WALLS, BUTTRESSES ETC., TO BE DESIGNED BY STRUCTURAL ENGINEER.

New steel beams inserted together with padstones etc to carry existing/new construction all to structural calculations.
HALF HOUR FIRE PROTECTION; to structural steel beams supporting floors and steel columns to be encased with 12.5mm Fireline plasterboard and skim to give 30mins fire resistance.
If restricted space around beams then coat the steelwork with intumescent paint to the thickness required by the manufacturer to provide 30mins fire protection

Lintels to be insulated in external walls.
Foundations within 5m of any trees to be adequate for root protection.

CEILINGS
To be 12.5mm plasterboard with scrim taped joints and 3mm skim finish. 50x50mm noggins to be provided to all unsupported edges.
New ceiling to provide a minimum 30 min Fire Resistance.

DOORS & WINDOWS
Glazing in doors which is wholly or partially within 1500mm from floor level and any glazing between finished floor level and 800mm above that level in internal and external walls and partitions should conform to at least Class C of BS 6206.
However if the smaller dimension of the pane is greater than 900MM, it should conform to at least Class B of BS 6206. In both cases glass must be marked in accordance with BS 6206.
Window and Door Reveals
All window reveals to be formed by closing cavity at jambs and cills with Thermabate or similar approved, insulated cavity closer to avoid cold bridging, installed strictly in accordance with manufacturers instructions.

ALL EXTERNAL DOORS AND WINDOWS TO BE DOUBLE GLAZED
Windows and doors to be glazed with 24mm minimum sealed double glazed units comprising Low E glass or K glass of 0.15 emissivity and 16mm gap giving a U value of 1.5W/sq.m K
Velux windows to be fitted with double glazed units giving u value of better than 1.5W/sq.m K and to have double rafters to both sides, top & bottom
All new first floor bedrooms to have windows capable of being used as a means of escape ie; a minimum of 0.33sq.m, and at least 450mm wide & 750mm high clear opening with the cill between 800 & 1100mm above floor level
Windows to have min 1/20th floor area as opening lights and 1/10th floor area as glazed area to all habitable rooms.

VENTILATION
All habitable rooms to have 8000 sq. mm trickle ventilation plus an openable window or door equal to 1/20th of the floor area.
Kitchens to have background trickle ventilator of 4000 sq. mm plus an openable window and a mechanical extract fan capable of extracting 30 litres per second if a cooker hood or if a fan located elsewhere capable of extracting 60 litres per second.
Ventilation to an internal wc provided by an extract fan capable of extracting 6 litres per second operated intermittently and have an overrun of 15 minutes.
Air inlet provided by a 10mm gap under the door. Wc's with window to have opening of window equivalent to 1/20th floor area does not require mechanical extract.
Bathrooms and shower rooms to have background trickle ventilator of 4000 sq.mm and to be provided with an extract fan capable of extracting 15 litres per second and operated intermittently plus an openable window.
Utility Room to have trickle vent of 4000sq.mm and fan capable of extracting 30 litres per sec.
All extracts from fans to be connected via a pvc duct to outside air, terminating in an approved grille.

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TIMBER TREATMENT

All existing timber to be checked for damage and repaired/replaced with similar materials as necessary, under the guidance and agreement of the conservation officer and the structural engineer.
All existing timbers in roof spaces to be treated against rot and infestation.
All structural timber to be pressure impregnated with an approved fungicide/insecticide preservative fluid all in accordance with B
S 4978:1975 and BS 5268.

HEATING

To be extended small bore h.w. radiator system
Thermostatic control in ground floor hall space and thermostatic valves to all radiators
New floor areas to have underfloor heating system if required
Space and water heating also controlled using a manually adjustable timer

Heating system generally to comply with the requirements of BS5449:1990

Hot water & heating systems Hot water & heating system to be sealed gas fired condensing combi boiler with automatic ignition with balanced flue – outlet to terminate externally through the external wall 300mm from any opening light. System to be designed & installed by a Capita gas safe registered heating engineer/contractor. All radiators are to be convector type with thermostatic valves. New boilers to have a SEDBUK rating of 88.

Rating & capacity of existing boiler to be checked for adequacy to ensure enough spare output to be capable of servicing new extension.

PITCHED ROOF

To be plain tiles to match existing main roof pitch and fixed in accordance with BS5534 pt1 1978(1985) tiles to have 100mm maximum gauge headlap 65mm minimum, nailed using 38x12g aluminium alloy nails laid on 38 x 25mm s.w. tanalised class A battens, battens secured with galvanised clout nails.
Tiles twice nailed every third course and all tiles to be twice nailed at ridge, eaves and verge.
Continuous proprietary eaves skirt at eaves.
Tyvek Untearable Breathable sarking on timber rafters at 450c/c. Rafter depth to suit span and to be specified by structural engineer.
100mm Kingspan K107 insulation between rafters leaving a minimum of 50mm between sarking and insulation gap provided by using 25x25 treated batten fixed to both sides of all the rafters.
82.5mm Kingspan K118 beneath rafters with all joints taped using self adhesive foil tape.
All insulation boards fitted in accordance with manufacturers detailsand instructions.
Wall plate to be bedded on mortar and fixed down to the inner leaf of the cavity wall with 30 x 5mm galvanised steel straps 1000mm long at 2000mm max. centres. All fixings to steel straps to be plugged and screwed to masonry.

Glidevale AV50 AbVent or similar approved ventilated abutment flashing to provide 5000sq.mm ventilation per metre run of ridge abutment.
Ridge to be Dry ridge system to allow for roof ventilation.

ELECTRICAL INSTALLATION

All new cable runs to be concealed, no surface wiring is to be used. Switches, sockets and other electrical equipment controls are to be positioned at a height usable by all i.e between a height of 450mm&1200mm above finished floor level in accordance with approved document M.
All work to comply with the latest edition of the IEE code. Contractor to allow for extending existing circuits as necessary.

Energy efficient bulbs & fittings to be provided in areas indicated thus (E) one number light fitting installed which will only take lamps having a luminous efficacy greater than 40 lumens per circuit–watt.
Any new external mounted light fitting are to be fitted with energy efficient Either a lamp not exceeding 150watts per fitting with automatic switch off when there is insufficient light and at night when light is not required or a light fitting with a socket that can only be used with bulbs having an efficiency greater than 40 lumens per circuit watt.

All electrical works to be carried out to meet the requirement of part P of the building regulations by a person competent to do so.
Prior to completion the local authority are to be provided with a copy of either:
An electrical installation certificate issued under a competent person scheme
or
An electrical installation certificates as defined in BS 7671 signed by a person competent to do so.

ELECTRICAL INSTALLATION AND POSITIONS OF SOCKETS AND LIGHTS TO BE DISCUSSED WITH BUILDER OR ELECTRICIAN

AN ELECTRICAL CERTIFICATE SHOULD BE OBTAINED BY THE CLIENT

STUDWALLS

1No layers of 12.5mm Gyproc wall board ten (with a minimum mass per unit area of 10Kg/m2) fixed each side of studs, at 150mm crs, with 40mm non–ferrous driwall screws to 100x50 sw treated studs at 450mm crs for 900mm boards + 600mm crs for 1200mm boards. With a sound absorbent layer of Isowool Acoustic partition roll fully filling the wall cavity. All joints to be well sealed. 100x50mm noggins to be fixed to support ends of boards and 900mm crs vertically between studs.

Stud walls to be skimmed with 5mm thistle board finish.
Gyproc moisture resistant board to be used in bathroom areas.

Fill all gaps around internal walls to avoid air paths between rooms.
Where partitions occur at first floor level and run parallel with joists, additional joist is to be inserted and the two bolted together.

Accoustic sealant and intumescent/ accoustic sealant on the 30min walls and ceiling around the garage.

ALL DIMS IN MILLIMETERS UNLESS NOTED OTHERWISE
DO NOT SCALE EXCEPT FOR PLANNING PURPOSES
IF IN DOUBT – ASK

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CLIENT:	DATE:	ARCHITECT: / DRAFTER:	SCALE:
Andy Walls	23/07/21	Dipun Gandhi / Ivan Sapov	NTS
ADDRESS: 44 Mount Pleasant Drive, Belper, DE56 2TH		DRAWING NO: 873 – 13	REV B

PART Q

SECURITY DOORS
All external doors and windows to be designed to meet security requirements of British Standard Publication PAS 24:2012 and letter plates to have max aperture of 260 x 40mm and to be located as per par 1.3 of Part Q.
Main doors to each dwelling to have door viewer, door chain or door limiter.

All door and window frames to be mechanically fixed to the structure in accordance with the manufacturers instructions.

WINDOWS
Windows to ground floor level, basement and easily accessible rooflights manufactured to meet the security requirements of British Standards publication PAS 24:2012, or designed and manufactured in accordance with Appendix B of Approved Document Q.

All door and window frames to be mechanically fixed to the structure in accordance with the manufacturers instructions.

PART R

INFRASTRUCTURE
In accordance with Part R of the Building Regulations, provide physical infrastructure (from the service providers access point to the occupiers network termination point) so that copper or fibre optic cables or wireless devices capable of delivering broadband speeds greater than 30mpbs can be installed.

ENERGY CONSERVATION
Low Energy at 40 lumens per circuit watt efficacy in accordance with L1 para 42 to be fitted to all rooms.

AUTOMATIC FIRE DETECTION
Automatic fire detection system to be installed in accordance with BS 5839 Part 6 2019. This system needs to be a minimum grade D (Mains powered with a battery back up and interlinked). In this instance it will require a category LD3 with smoke detectors in the hallway and landing with a heat detector in the kitchen.

Note: If ceiling mounted it is to be at least 300mm from any wall or light unit. If wall mounted it is to be fixed between 150 and 300mm below the ceiling. The smoke alarm is not to be located immediately above a stair shaft so that easy access is available to the unit and is to be located within 7 metres of a kitchen or living room or within 3 metres of a bedroom.

Electrician to supply commission certificate on completion.

SD Smoke detectors to be provided in positions shown.

CO Carbon Monoxide detector fitted in rooms with a boiler

HD Heat Detector fitted in kitchen

FD30 = Fire Door with 30 Minutes (minimum) integrity & rising butt hinges self closing

FD30s = 30 Minutes integrity fire door with self closing device and smoke stop and intumescent sealant

COMMISSIONING
Upon completion of the works the builder is required to issue to the building inspector a notice confirming that the fixed building services have been commissioned in accordance with a procedure approved by the secretary of state. A set of operating and maintenance instructions should be left for the occupier.

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