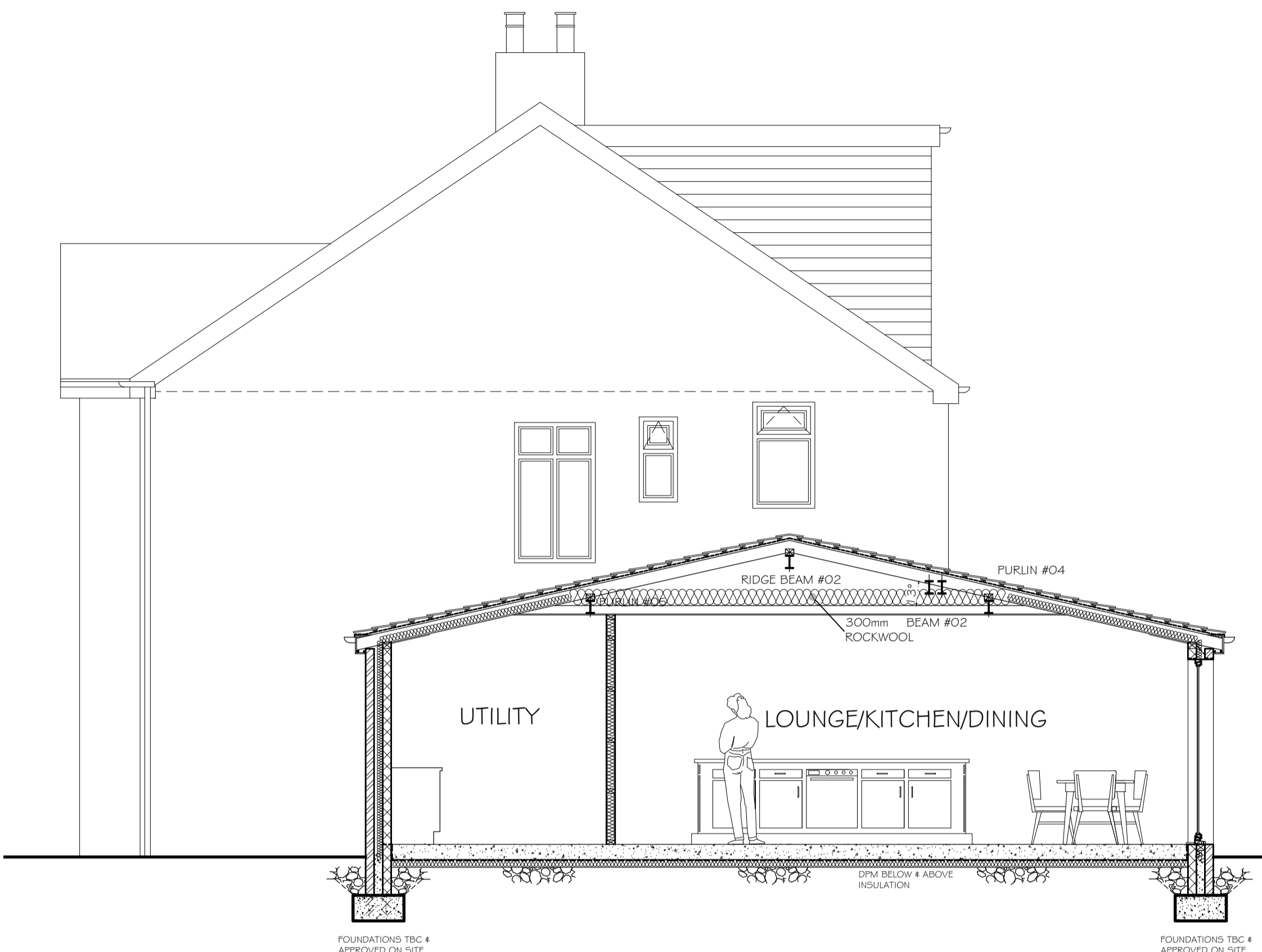
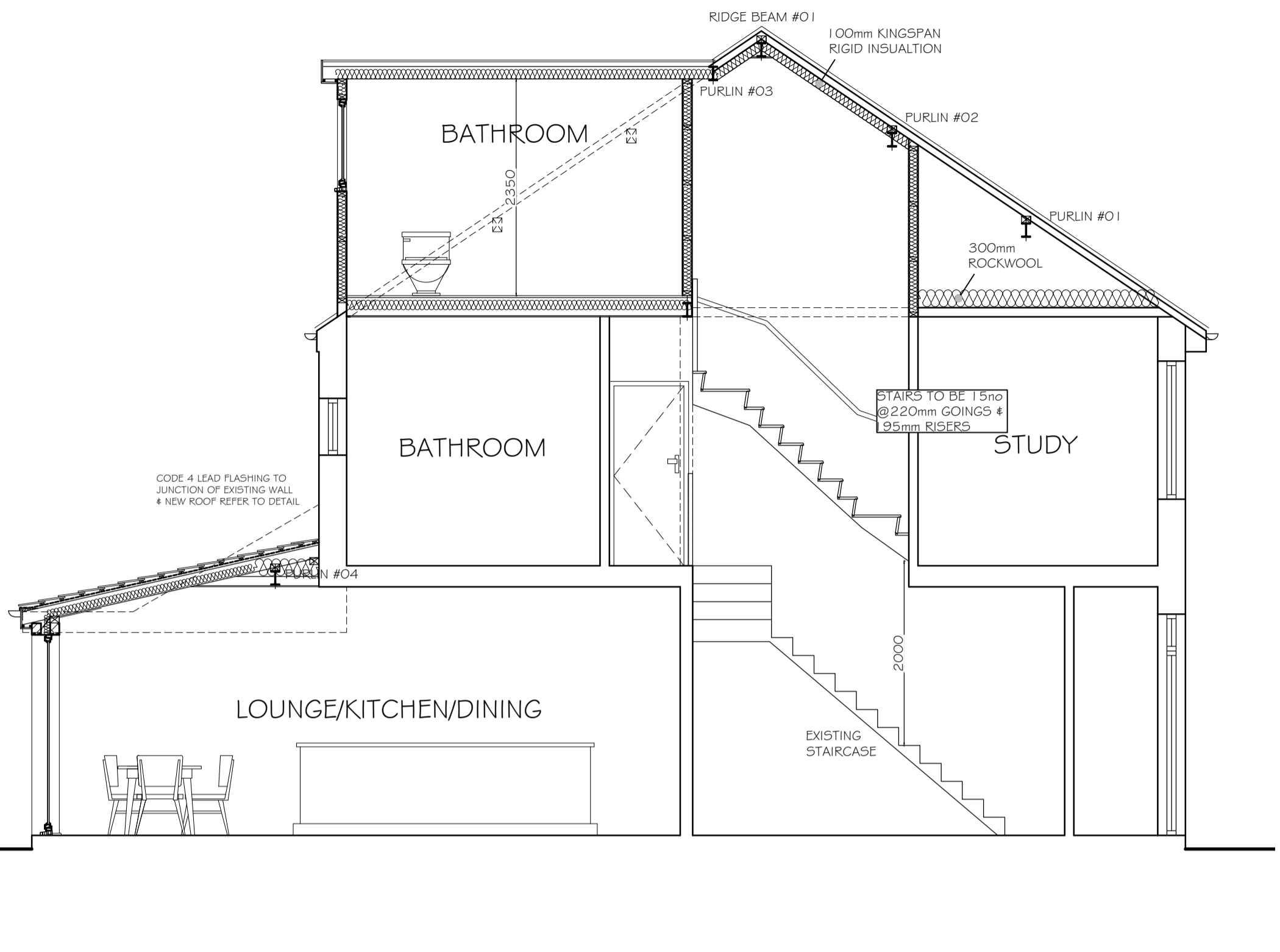


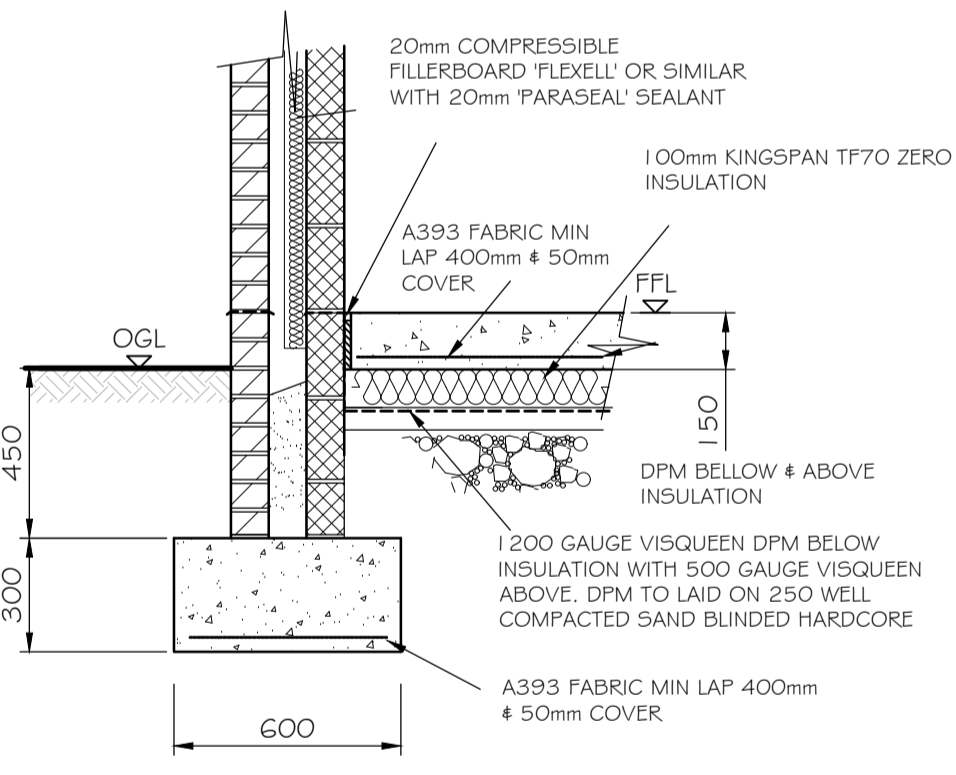
DO NOT SCALE DIMENSIONS FROM DRAWING



SECTION BB



SECTION AA



FOUNDATION DETAIL SCALE 1:20

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND DOCUMENTS. THE USER SHOULD CONSULT THE DRAWING ISSUE REGISTER FOR DETAILS.
4. THE CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
5. THE ENGINEER/ARCHITECT SHOULD BE CONTACTED IMMEDIATELY IF THE ASSUMPTIONS USED IN THE DESIGN DIFFER TO THAT FOUND ON SITE.

- CONCRETE**
1. The grade of concrete is to be C35 as specified in BS5328, nominal Agg size 20mm, with w/c ratio of 0.60 and minimum cement content to be 300 Kg/m<sup>3</sup>
  2. All reinforcement to be high yield conforming to BS 4449, fy=460N/mm<sup>2</sup>
  3. Cover to reinforcement to be 50mm
  4. Lap length of bars to be 40x diameter, minimum length to be 300mm
  5. All joints to be formed as shown in the standard details and debonded using Flexcell and null-seal
  6. All concrete to be spray cured
  7. Finish to be class U4 as per Specification for Highways
  8. All works to be in accordance with BS 8110
  9. Concrete to be cured in accordance with BS 8110 Cl. 6.2.3
  10. Formwork to be designed, prepared and struck in accordance with BS 8110 Pt1:1997 Cl.6.2.6
  11. Reinforcement to be in accordance with Cl.7.1.7.5, system of marking to be as follows:  
10 - 1 - 20 - 18 - 150 - TF  
No Type Dia Bar/Mark Spacing Layer
  12. Binding to be C15A 50mm thk to U/S of all ground bearing structures

- FOUNDATIONS**
1. All foundations are to be taken down to a suitable bearing strata as stipulated by the Engineer; to be taken as 75kN/m<sup>2</sup> S.B.P as, i.e. firm to stiff Boulder clay or similar; to verified on site by the Contractor to the satisfaction of the L.A. Building Inspector. All works are to conform to the Building Regulations Approved Document A1/2 Pt E
  2. All excavation is to be inspected and approved by the Engineer and L.A. Inspector prior to backfilling
  3. All excavation are to be straight side to at least the dimensions as shown on the drawing, free of standing water and loose material. Site traffic on the formation surface shall not be permitted.
  4. All existing foundations to be adopted in the works are to be exposed and confirmed to be as assumed. If the foundations differ from that shown on the drawing and are unsuitable underpinning to the Engineer's requirements will be required.
  5. Standard strip foundations are to be 450mm below ground level, with cross-sectional dimensions 600mm x 225mm min. Concrete is to be C20 as specified in BS5328.
  6. Brickwork below the DPC is to be clay commons with a lean mix concrete cavity fill to ground level; the dpc to be reinforced pvc or bitumen polymer as supplied by permitite (class d) to be minimum of 150mm above ground level.
  7. Ground floor slab to be 150mm thk with A252 mesh in top face, with a minimum of 400mm laps, on 1200 gauge visqueen dpm below insulation and 500 gauge visqueen above dpm to laid on 250 well compacted sand blinded hardcore. Insulation to be 100mm kingspan foil backed polyurethane insulation (or similar approved between 2 layers of 1200 gauge visqueen dpm or similar approved on 150 thick well compacted sand blinded hardcore
  8. Suspended timber floor to be moisture resistant T&G chipboard V83, C16 timber joists at 400mm c/c. Under floor void to be minimum 150mm with 75mm thk C15 concrete weed check. Under-floor ventilation to be provided to all suspended floors, 3000mm<sup>2</sup>/m run, provided by ventilation bricks in accordance with approved document c. Insulation to be 100mm thick kingspan TF70 zero odp thermafloor between joists
  9. Insulation above new slab with no batons to be 100mm thick kingspan TF70 zero odp thermafloor & 18 ply t&g or chipboard wood topping
  10. Floating timber floor on existing slab to be 100mm thick kingspan koothern K3 between battens on breathable membrane
  11. Boundary wall foundations to be exposed prior to commencement of works & asuitabley confirmed by engineer or BCI
  12. Where relevant trial hole to be evacuated to establish depth of footing or existing slab. to be checked by engineer / building control officer for adequacy before works commence
  13. Where relevant existing garden wall footings to be exposed to ensure suitability, to be checked by engineer / building control officer for adequacy before works commence

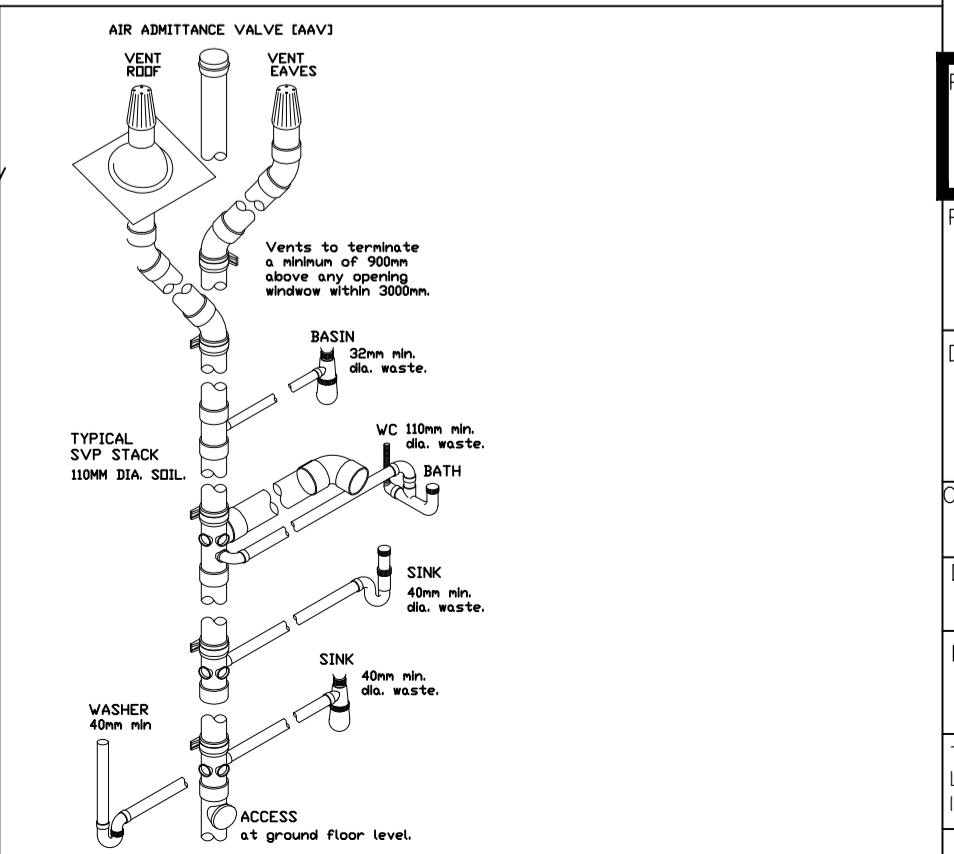
- WINDOWS**
1. All windows are to be double glazed, U=1.6w/m<sup>2</sup> - 16mm cavity with 90% argon fill & low E coating
  2. All frames are to be proprietary system UPVC system, to match existing
  3. trickle ventilation to be fitted to all frames, minimum 8000mm<sup>2</sup> to new habitable areas, 4000mm<sup>2</sup> to other areas.
  4. All windows to be fitted with window locks
  5. Minimum openers to be 1/20th floor area, to be as indicated on the drawing.
  6. New escape windows to be min. 0.33 sqm no dimensions smaller than 450mm clear opening, maximum sill height 1100mm min all height 800mm windows with cills below 800mm to be fitted with BS safety glass & release catch in accordance with approved document 'B' note 2
  7. BS Toughened Safety glazing to be provided on all windows up to 800mm above finished floor level and 1500mm on doors + 300mm side panels
  8. Existing windows and doors must achieve, Min U = 1.8 w/m<sup>2</sup>/k and contain safety glazing in all critical areas
  9. Glazing not to exceed 25% of floor area to extended dwelling
  10. When ventilation not from existing windows ventilation to be 20% of floor area to 8000mm<sup>2</sup> in accordance with approved doc F.
- DOORS**
1. All doors to meet U-Value = 1.8
  2. All internal doors to have 10mm gap under door for ventilation
  3. All internal doors without direct ventilation to have louvred vents in doors fitted with smoke seals
  4. All internal doors to common areas to be min 750mm clear opening
  5. All door to comply with doc n table 4 in relation to corridor widths
  6. All windows & doors are to be made in accordance with BS standards & building regulations.

7. Where necessary existing door frames to be checked for suitability to fit F&D2 doors with intumescent strip
  8. Where necessary all F&D2 door frames to be specialist made to incorporate F&D2 doors all frames to have a 44mm rebate, and grouted to incorporate intumescent strip in accordance with building regulations approved doc b volume 2 all works to be approved by building control
- STAIRWAYS**
1. Location and support is indicated on drawing
  2. Refer to section for risers and goings.
  3. Timber closed tread type constructed from grade C16 timber regulated.
  4. Trimmers in accordance with trade guidance
  5. Minimum width 750mm clear to handrails
  6. Clear headroom to be 2000mm through out the length of the staircase
  7. Handrails to stair to be 900mm high Handrail to landings to be 1100mm high both with vertical baluster 100mm apart maximum, balustrading to withstand horizontal force of 0.74kN/m<sup>2</sup>
  8. Soffit to be 1 hour fire resistance provided by 2 layers of plaster board with staggered joints.
  9. Tapered Treads should be a minimum of 50mm at the inner edge and a minimum of 200mm going at the centre. Tapered treads should be same going and to comply with approved doc k at the centre of the deened length
  10. Ambulant staircase min width 1000mm
  11. Winders rise and goings to the tapered treads to comply with approved doc k at the centre of the deened length
  12. Balcony balustrade to be 1100mm high from finished floor level with vertical strings 100mm apart maximum, balustrading to withstand horizontal force of 0.74kN/m<sup>2</sup>
  13. External stairs leading into existing dwelling if exceed more than 600mm fall from ground level to finished floor level handrail to be fitted in accordance with approved document k
  14. All stringers and underside of treads to be double boarded with 12.5mm plasterboard to give 1 hour fire protection.

- EXTERNAL WALLS**
1. All blockwork to comply with BS5628
  2. External walls to be constructed from 102mm thk clay facing brick to match existing structure. Cavity to be cleared of all internal snots, closed with propriety cavity closure or slate or solder course
  3. Insulation to be provided by 50mm thick kingspan thernawall TW50 zero odp or similar approved
  4. Inner leaf to be 100mm thk Thermalite 'Shield 2000' concrete blocks. (U=0.25w/m<sup>2</sup>), Fk=20V/m<sup>2</sup>
  5. Cavity ties to be stainless steel double drip triangular ties to BS1243, at staggered centres 750mm c/c horizontally and 450mm c/c vertically
  7. Openings to be closed with 'Thernabate' proprietary insulated cavity closer system.
  8. Cavity trays to be placed above all openings to be supplied by Cavity Tray type E or similar approved, installed as detailed in manufacturers instructions, unless specified on drawing
  9. Lintels to be type 7N as supplied by Catic, or similar, unless specified on drawing. Minimum bearing to be 150mm. Weep holes at 400mm/c to be provided above all openings, as supplied by Glievale
  10. Mortar to be class III 6:1 sand/cement mix with Feb plasticer in accordance with BS5628
  11. All flashings to be lead code 4 to BLM Handbook.
  12. Ensure continuous 50mm clear cavity through
  13. Existing building comprising thermal envelope to be checked for compliance with approved document L1 B table 3 2010, where inadequate to be replaced
  14. Brickwork below the DPC is to be clay commons with a lean mix concrete cavity fill to ground level; the dpc to be reinforced pvc or bitumen polymer as supplied by permitite (class d) to be minimum of 150mm above ground level.

15. External envelope of building to be upgraded in accordance with approved document L table 3. Insulation to existing walls, ceilings, floors to be exposed and upgraded where necessary. all works to approved site by building control.
- INTERNAL WALLS**
1. All internal walls to be 100mm blockwork with 13mm two-coat plaster skin to both sides
  2. Non load bearing walls are to be timber stud walls, 12.5mm thk plaster board taped and skimmed both sides on 105 x 50mm timber framing at 600mm c/c, 100mm rockwool insulation in fill to void
  3. All walls between habitable rooms and washrooms to be sound insulated
  4. Where relevant walls to only with doc E should be 15mm plaster board or 12mm sound block
  5. Stud partition up to underside of floor to provide protected escape route, min 1 hour fire protection required
  6. Kingspan assessment required & target 'u' value calculated for every flat before works commence
  7. Sound testing to be undertaken after development to any separating walls & floors between two dwellings
  8. All walls to the apartment entrance halls and common areas to give 30min fire protection
  9. External envelope of building to be upgraded in accordance with approved document L table 3. Insulation to existing walls, ceilings, floors to be exposed and upgraded where necessary. all works to approved site by building control.

- INTERNAL PLUMBING**
1. All plumbing to comply with CP572:
  2. Sink to have 40mm diameter plastic waste pipe with 75mm deep seal bottle traps.
  3. Mechanical ventilation to be provided in all confined rooms providing 5 air changes/hour discharging to external environment, connected to the light switch with 20 minute overrun, and mandatory to kitchen and bathroom areas, pull operated expel air ducted fans to KITCHEN RATE 60 LITRES/ SEC via wall/ceiling mounted extractor KITCHEN RATE 30 LITRES/ SEC above hob
  4. All gas and heating appliances to be designed by specialist and installed by CORGI registered fitter.
  5. Radiators posn marked on drw, rads to be fitted with thermostatic valves to every room
  6. Boiler condenser - combi boiler to be seasonally adjusted TRV/ therno st. controlled Sedbuk rating of boiler to be 86%
  7. Any soil pipes that pass through the floor to be fitted with intumescent quietline collars & boxed off with 15mm plaster board and sound insulated
  8. Heat recovery fans, sfp. cont. 0.8l/s/s minimum 66% efficiency
  9. All svps to be clad with 2 ply plasterboard to achieve one hour fire resistance and sound insulated with rockwool
  10. Where waste runs are excessive use anti siphon traps or 50mm pipes and or air admittance valves to be fitted in accordance with building regulations approved document LBI
  11. All Extractors & ventilation rates in accordance with approve document f



B	Client Amendments	21/04/22	JG
A	Client Amendments	14/04/22	JG
Rev.	Amendments	Date	By

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PROJECT ADDRESS  
**53 ARGYLL ROAD, BISPHAM  
FY2,9TG**

PROJECT TITLE  
**HIP TO GABLE, LOFT CONVERSION  
& SIDE EXTENSION**

DRAWING TITLE  
**PROPOSED SECTIONS**

Client	MR & MRS MELLOR	Scales@A1	1:50
Drawn	JG	Checked	Date 11/04/22

DRAWING No. **A022/057/BR/03** Revision **B**

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