

Indicative Layout Key: Layout to be confirmed by subcontractor and client.

One Way Light Switch

Spot Downlight

Pendant Light Fixture External Wall Light Fixture

Single Socket

Double Socket

Double USB Socket

Cooker Outlet

Cooker Hood Extract Fan

Shaving Point

Smoke Detector

Heat Detector

(L1) Catnic CG90/100 lintel with minimum 150mm end bearings. (BSP) Bespoke Semi Circular Arch

(ENG) Lintel / steelwork to be specified by Structural Engineer.

(RL) Lintel to be checked and re-used.

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Building Control

5 Westcliffe Road

Floorplans

Project No.

Sheet No.

BC-001

19/11/2019 12:22:59

Drawn by

Scale @ A1

Date

As indicated

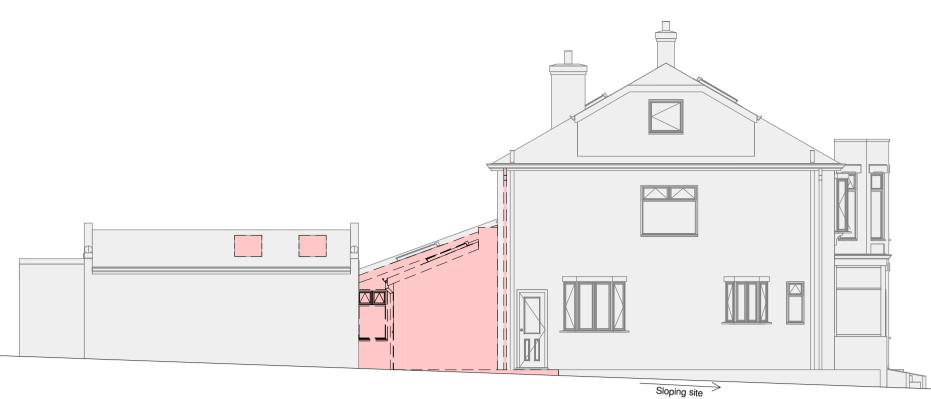
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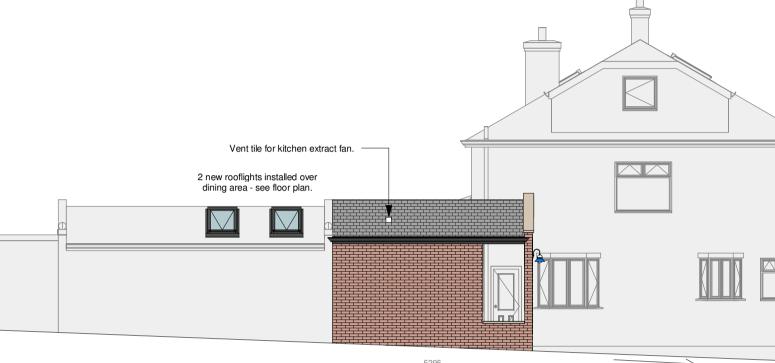
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Site Existing BC

Site Proposed BC



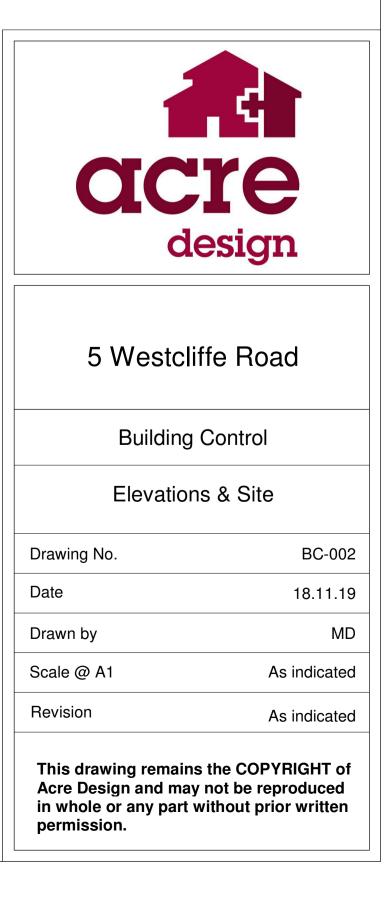


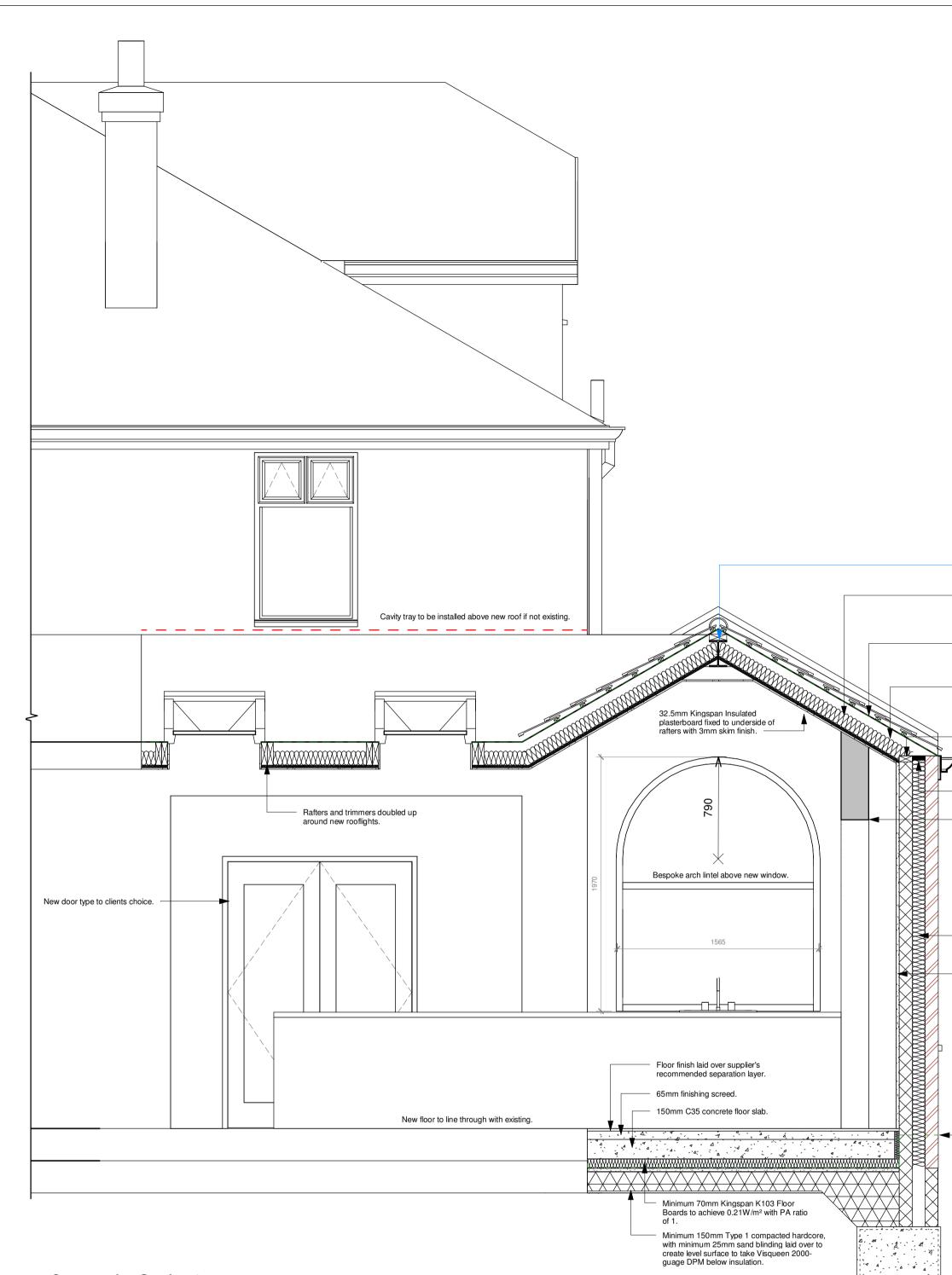
3D View - Proposed Porch 1











Construction Section 1

<u>Siteworks</u>

Demolition works All areas marked in red are to be demolished, the sequence of which will be determined by the principal contractor ensuring suitable support where load bearing elements are to be removed.

Site Scrape Scrape all top soil and vegetable material from areas of proposed building, scraping to a minimum of 200mm below proposed Finished floor level. Any demolition materials to be removed from site.

Foundations

Contractor to dig trial pits to ascertain level of existing foundations prior to beginning formation of new foundations.

Foundations (Standard strip)

Dig strips for foundations to a depth of min. 750mm below finished ground level, or or to the depth of the existing foundations (whichever is lowest), confirming firm undisturbed ground. Top of foundations to be finished level to take new cavity wall construction. Base and sides to be firm and true, if sides are instable support with ply shuttering. Pour foundations minimum 600x300mm strips in C35 grade concrete, ensuring 150mm scarcement. 1 Layer A193 reinforcement mesh to be installed 50mm from the bottom of the foundations, ensuring 50mm cover all round.

Foundations (Eccentrically loaded at Boundary)

Dig strips for foundations to a depth of min. 750mm below finished ground level, to firm undisturbed ground. If there is an existing structure close to the boundary that is to remain, remove ground in alternate 1m sections below to avoid collapse and leave for 24 hours once poured to provide suitable support. Contact Acre Design if there are any questions. Top of foundations to be taken to a minimum of the underside of any existing foundations, and finished level to take new cavity wall construction. Base and sides to be firm and true, if sides are instable support with ply shuttering. Pour foundations minimum 600x600mm strips in C35 grade concrete, to allow for cavity wall to be built on edge of new footing. 2 Layers of A193 reinforcement mesh to be installed 50mm from the bottom and 50mm from the top of the foundations, ensuring 50mm cover all round.

Underbuilding

Underbuilding (Brick and Block cavity construction) Build off foundations 2 layers dense blockwork, fill cavity to ground level with lean mix concrete, build up to ground level, above ground level to DPC level outer leaf 100mm Brickwork to match existing to client's specification laid in 1:1:6 cement lime sand mortar and pointed joints. Openings for all services to be installed with prestressed lintels or the like. All blockwork/Brickwork walls below DPC level to comply with BS 5628 and BS 6073:1981, minimum compressive strength to be 7N/sq mm and certified as frost resistant for use below ground.

Ground Floor Construction

GROUND FLOOR Insulation under concrete (U Value to equal or better 0.22 W/m2K) :

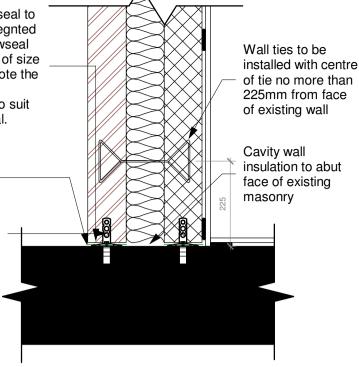
Clean out and reduce existing solum areas to reduced levels. Lay layers of 150mm well compacted bottoming/hardcore and 25mm sand blinding. 1 Layer Visqueen 2000 gauge polythene DPM lapped a min of 250mm at all joints and lapped up to meet DPC. Minimum 70mm KINGSPAN Kooltherm K103 floor board rigid insulation to achieve 0.21 W/m² with PA ratio of 1. Provide 25mm thick POLYFOAM PLUS FLOORBOARD 220 or similar approved Extruded Polystyrene insulation slab upstand round perimeter of floor slab where required. See cross section for further information. 150mm in-situ concrete floor slab (concrete quality 30N or as directed by the engineer). Separation laver between concrete and final floor finish 65mm finishing screed. Floor finish laid over supplier's recommended seperation layer.

Structural steel and foundations as per Structural Engineer Structural steelwork to be encased in 12.5mm Gyproc fireline board with staggered joints nailed to timber cradles or painted in Nullfire S or similar intumescent paint to provide 1/2 fire resistance. Refer to Structural Engineers report for sizes, specification and details.

Create thermal and acoustic seal to inner leaf using bitumen impregnted expanding foam tape (eg Flowseal by Movement Joints (UK) Ltd of size 40mm wide x 20mm deep - note the 40mm dimension must be compressed down to 20mm to suit joint and provide required seal.

Install vertical Dpc aganist existing external wall prior to construction of new wall.

Ancon Staifix 36/8 wall extension starter system channels c/w 150mm long SP36 ties @ 450 vertical ctrs



Wall Junction 1:10

ew ridge beam to be specified by Structural Engineer.

110mm Kingspan Kooltherm K7 Pitched Roof Board partially filling space between rafters to ahiceve minimum U-value of 0.18w/m²K

Proctor Roofshield (or similar approved) breathable roofing membrane fixed below tile fixing

Proprietary cross flow ventilator to

maintain minimum 50mm ventilatio gap between top of insulation and underside of roofing membrane

Wallplate strapped to inner leaf @ 2m centres.

hermal cavity closer by Kingspan Thermabate (or similar approved Bespoke arch lintel above stove

surround

0.28 W/m2K

100mm Rockwool flexi full-fill cavity wall insulation to achieve minimum U-Value of

12.5mm plasterboard on 10mm adhesive dabs, taped and sealed at

joints.

DPC by Hyload (or similar approved) laid between masonry courses at minimum 150mm above external ground level.

Eccentrically loaded reinforced concrete foundation - see specification for full details

External Walls

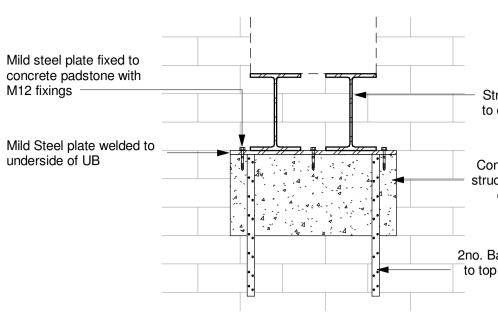
Existing to new walls Cavities in new walls to be made continous with existing walls where possible to ensure a continous weather break. If a continous cavity cannot be achieved, where new walls abuts the existing walls provide a movement joint with vertical DPC. All tied into existing contruction with suitable proprietary stainless steel profiles.

External Walls (Brick and block above DPC) U value - Minimum 0.28 W/m2K

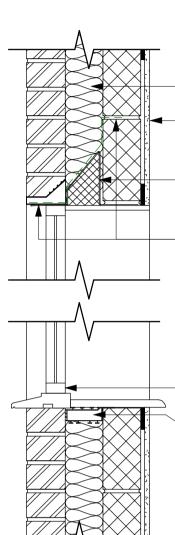
Hyload DPC min 150mm above ext. Ground level. New external wall above DPC to include weep holes to perp joints at 1000mm centres. Super Structure Walls above DPC Level: 100mm thick Thomas Armstrong Airtec standard concrete block work (3.6N laid in 1:1:6 cement lime sand mortar Fullfill cavity batt insulation. by rockwool or similar all to achieve minimum minimum 0.28 U-value. Facing brickwork external leaf to client's specification/to match existing property laid in 1:1:6 cement lime sand mortar and pointed joints. Stainless steel wall ties as per the provided specification.

External walls general (Masonry)

Wall ties to be austenitic stainless steel to BS 1243 at 600mm horizontal centres and 450mm vertical centres (staggered layout) and to be spaced at jambs of openings at 225mm centres and to be within 300mm of reveals. Wall ties also to be positioned at either side of any movement joints. Holding down straps to be 1200mm longx30x3mm in galvanised MS at each side of the openings and at 1800mm centres, fixed a minimum of 6 times with galvanised nails, movement joints, at first floor level, at eaves level and at gables if over 8m. DPC material to be Anderson 'Xtra Load Elite' high performance polymeric DPC system or equal and approved. Fit to full width of both leafs of external wall with external DPC minimum 150mm above finished ground level. Lay DPC with 300mm laps at corners etc. Stepped DPC to be BS 5628: Part 3 and BS 8251: 1991. Window cills, door threshold to be as specified on floor plans and elevations, designed in accordance with BS 5642 Part 1. BRC bricktor or equal should be provided in two courses above and below all openings and extended at least 600mm beyond the opening. All reinforcement should extend to full length between movement joints.



Padstone Bearing Detail 1:10



100mm Rockwoool flexi (or similar) full-fill cavity insulation to achieve 0.28 U-value

12.5mm plasterboard on 10mm adhesive dabs with skim coat plaster finish

Steel lintel by Birtley Steel (or similar approved), sizes specified on accompanying plans.

Type E Cavitray by Cavity Trays Ltd. (or similar approved) to be installed in conjunction with Beak Weep at 450mm ctrs.

PVC-U window installed in accordance with manufacturer's instructions.

Thermabate (or similar) insulated cavity closer to suit 100mm insulated cavity

Window Sill / Head Detail - Full Fill

Stud Walls

New Stud Partitions

Non-loadbearing Internal partitions of 45 x 75mm C16 treated standards or as sized by Structural Engineer, at 600mm centres with one row of bracing at mid height, lined with 12.5mm plasterboard (min 10kg/sgm) tapered edge plasterboard with all joints taped and filled or plaster skimmed. All studwork to include sole & head plates from chipboard flooring respectively to underside of plasterboard and ceiling. All partitions filled with 47mm rockwool acoustic slab or Knaufalcopor Rocksil Slab RS60 insulation between studs. 9.5mm exterior quality plywood to all bathrooms. kitchen and heating cupboard walls prior to fixing plasterboard. Moisture resistant plasterboards to all kitchens, bathrooms to wet side of partitions.

Insulated Stud Wall (Conversion)

45 x 75mm C16 treated standards, at 600mm centres with one row of bracing at mid height. Minimum 50mm air gap between timber frame and existing masonry. 50mm Kingspan Kooltherm K112 Framing Board between timber studs with 9mm exterior grade OSB sheathing to back of timber frame. Internal finish: 32.5mm Kingspan K118 Insulated plasterboard screw fixed to timber studs with 3mm plaster skim finish.

Windows & Doors

Windows & Doors All windows and doors to be individually site-sized before manufacturer and installation. SIZES NOT TO BE SCALED FROM ARCHITECTURAL DRAWINGS. All windows and doors to be double glazed in a material specified on the elevations. Windows and doors are to have opening action as detailed on elevation drawings, complying with BS 6375 1989. Top rail of window units to incorporate trickle ventilators with manual opening/closing mechanism. The windows are to be fitted with double glazing to BS 5713. All items below 800mm in height shall be fitted with toughened glass. All windows to have mastic pointing to frame perimeter to seal all gaps. Toughened safety glass in accordance with BS6262:Part 4:2005 and so marked, should be used in all critical locations, being any glazing below 800mm above finished floor levels, and within 300mm of any door opening, All ground floor windows and doors to meet the requirements relating to the robustness referring to BS 7412: 2007 PVCU window units, windows should be fitted with either a keyed locking system with removable key or a keyless locking system with incorporated laminated glass. Door sets should be designed in accordance with Annex A of BS 8220-1:2000 unless a material standard is available. Door set hinges to comply with BS EN 1935: 2002 and locking devices to comply with BS 3621:2007. Doors and windows fitted in accordance within BS 8213-4: 2007 or manufacturer's instructions if they meet or exceed the BS. All windows Uvalue of 1.4 or better. Escape type windows to be provided to all habitable rooms, with minimum dimensions of

450x750mm and an area of 0.33m². With a height of no more than 1100mm from FFL to cill. All blinds to be provided to all new glazing. Doors Doors to be generally as shown on plans, internal doors to be from range of selected by client. All ironmongery to

Draught-proofing

Draught proofing: Masonry Cavity wall.

The air tightness and limiting air infiltration must followed in accordance with good practise and the provided detailing and specification. Provide mastic sealant round all service pipe entries through external walls, floors and ceiling finishes. Provide mastic sealant or caulking round perimeter joints between ceiling and floor finishes. Close all vertical soil and vent pipe ducts at top and bottom.

Kitchen / Utility

Kitchen and utility fitments To be supplied and installed by the client's selected specialist designer/supplier within new kitchen and utility areas shown on plan. Kitchen and Utility fitments to be provided with all worktops, haffits, ect. Fitments to be selected by client and installed in accordance with the manufacture's printed instructions by the clients designer/installer. Kitchen specification to be as listed by the client, items that maybe required by the client include cooker/hob, integral dishwasher, and large american style fridge and/ or freezer). N.B. Main Contractor to make allowance for being in attendance during the Kitchen and/or Utility fit out and for providing services for each and connecting the clients appliances to electrical points, water distribution system and draining and waste systems on completion.

Universal Beam Structural Engineer to confirm final size

Concrete Pad Stone structural engineer to confirm final size

2no. Bat strips securely to top of padstone and masonry

internal doors to clients choice/ to match existing. External doors to have 3 point locking device.

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Building Control

5 Westcliffe Road

Construction Details 1

Project No. Sheet No.

Date

Drawn by

Scale @ A1

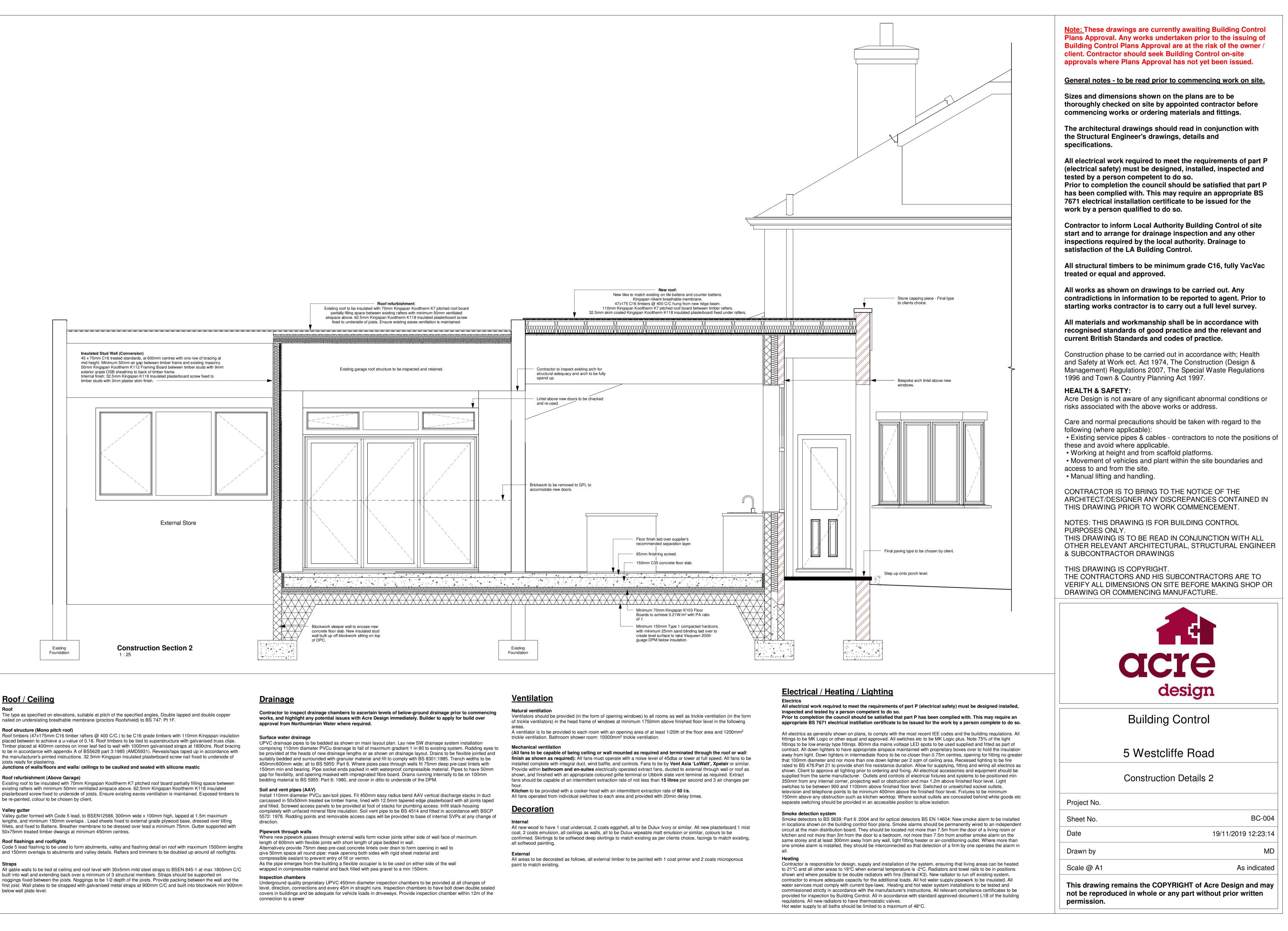
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MD

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BC-003

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Roof / Ceiling

Roof

nailed on underslating breathable membrane (proctors Roofshield) to BS 747: Pt 1F.

Roof structure (Mono pitch roof)

placed between to achieve a u-value of 0.18. Roof timbers to be tied to superstructure with galvanised truss clips. Timber placed at 400mm centres on inner leaf tied to wall with 1000mm galvanised straps at 1800ctrs. Roof bracing to be in accordance with appendix A of BS5628 part 3:1985 (AMD5931). Reveals/laps taped up in accordance with the manufacturer's printed instructions. 32.5mm Kingspan insulated plasterboard screw nail fixed to underside of ioists ready for plastering

Existing roof to be insulated with 70mm Kingspan Kooltherm K7 pitched roof board partially filling space between existing rafters with minimum 50mm ventilated airspace above. 62.5mm Kingspan Kooltherm K118 insulated plasterboard screw fixed to underside of joists. Ensure existing eaves ventilation is maintained. Exposed timbers to be re-painted, colour to be chosen by client.

Valley gutter

lengths, and minimum 150mm overlaps . Lead sheets fixed to external grade plywood base, dressed over tilting fillets, and fixed to Battens. Breather membrane to be dressed over lead a minimum 75mm. Gutter supported with 50x75mm treated timber dwangs at minimum 450mm centres.

Roof flashings and rooflights

and 150mm overlaps to abutments and valley details. Rafters and trimmers to be doubled up around all rooflights.

built into wall and extending back over a minimum of 3 structural members. Straps should be supported on noggings fixed between the joists. Noggings to be 1/2 depth of the joists. Provide packing between the wall and the first joist. Wall plates to be strapped with galvanised metal straps at 900mm C/C and built into blockwork min 900mm below wall plate level.