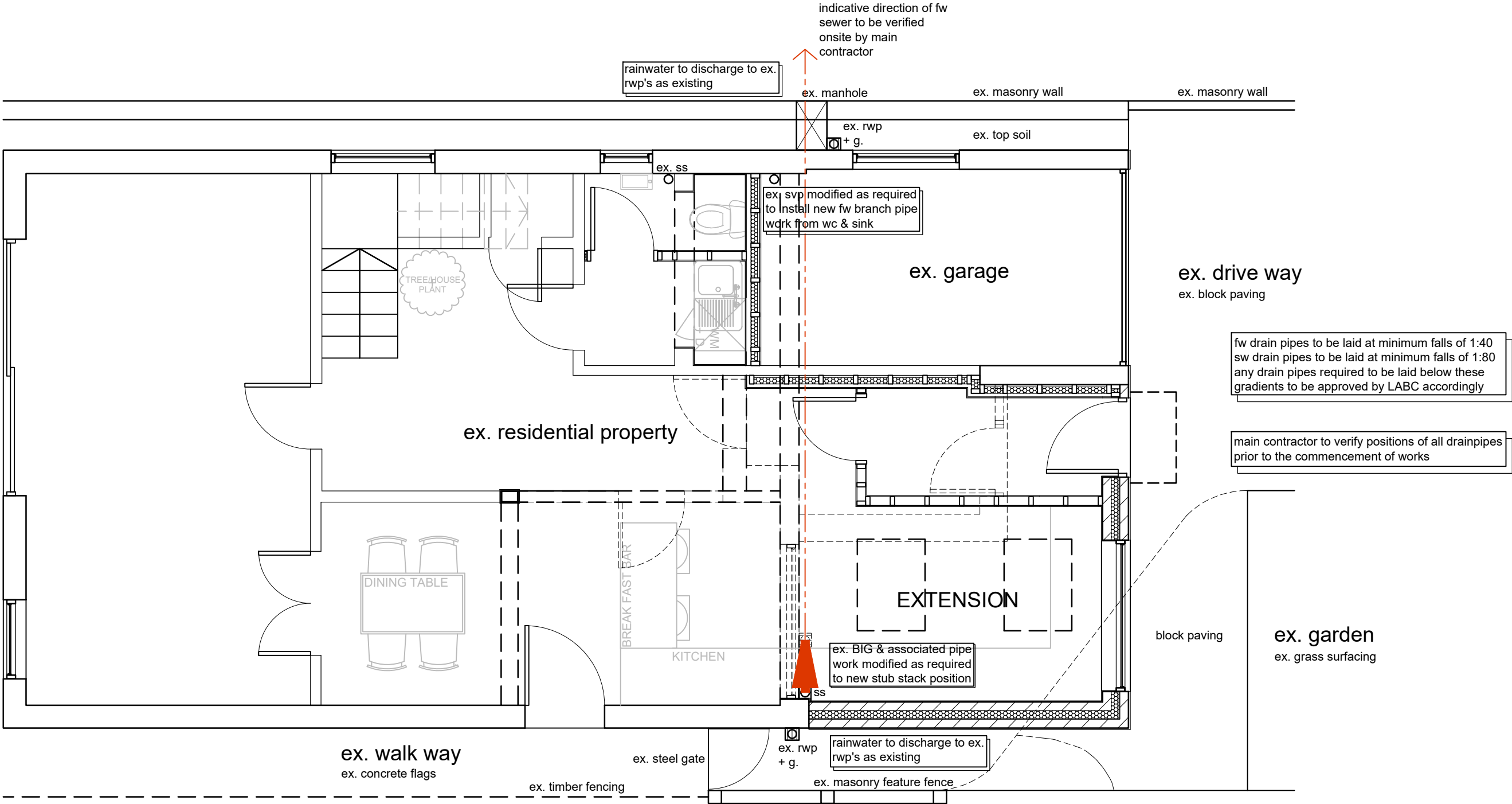
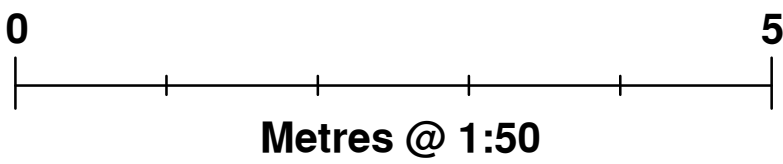


EXISTING SITE LAYOUT PLAN

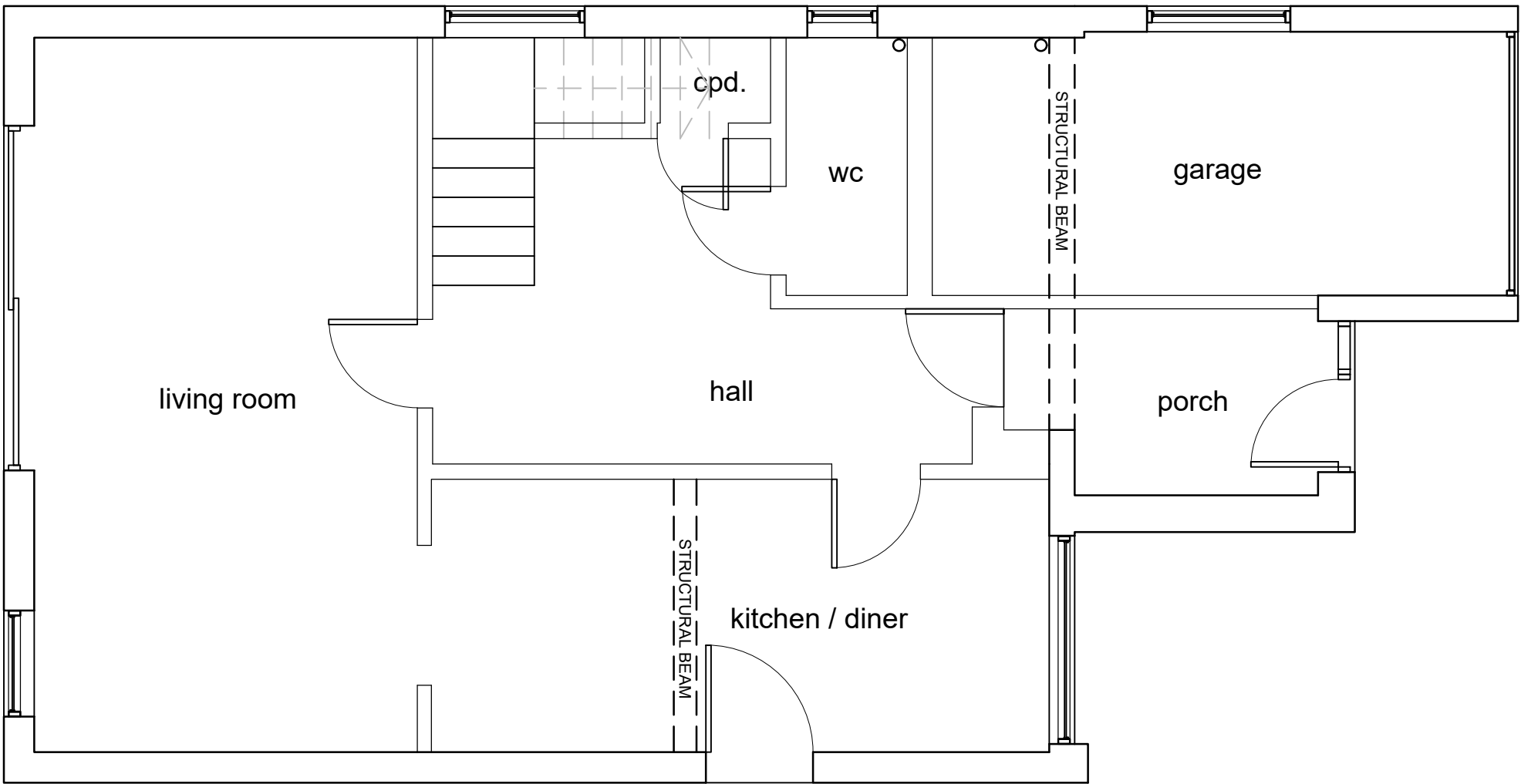
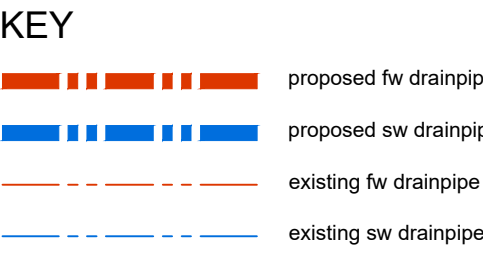


PROPOSED SITE LAYOUT PLAN

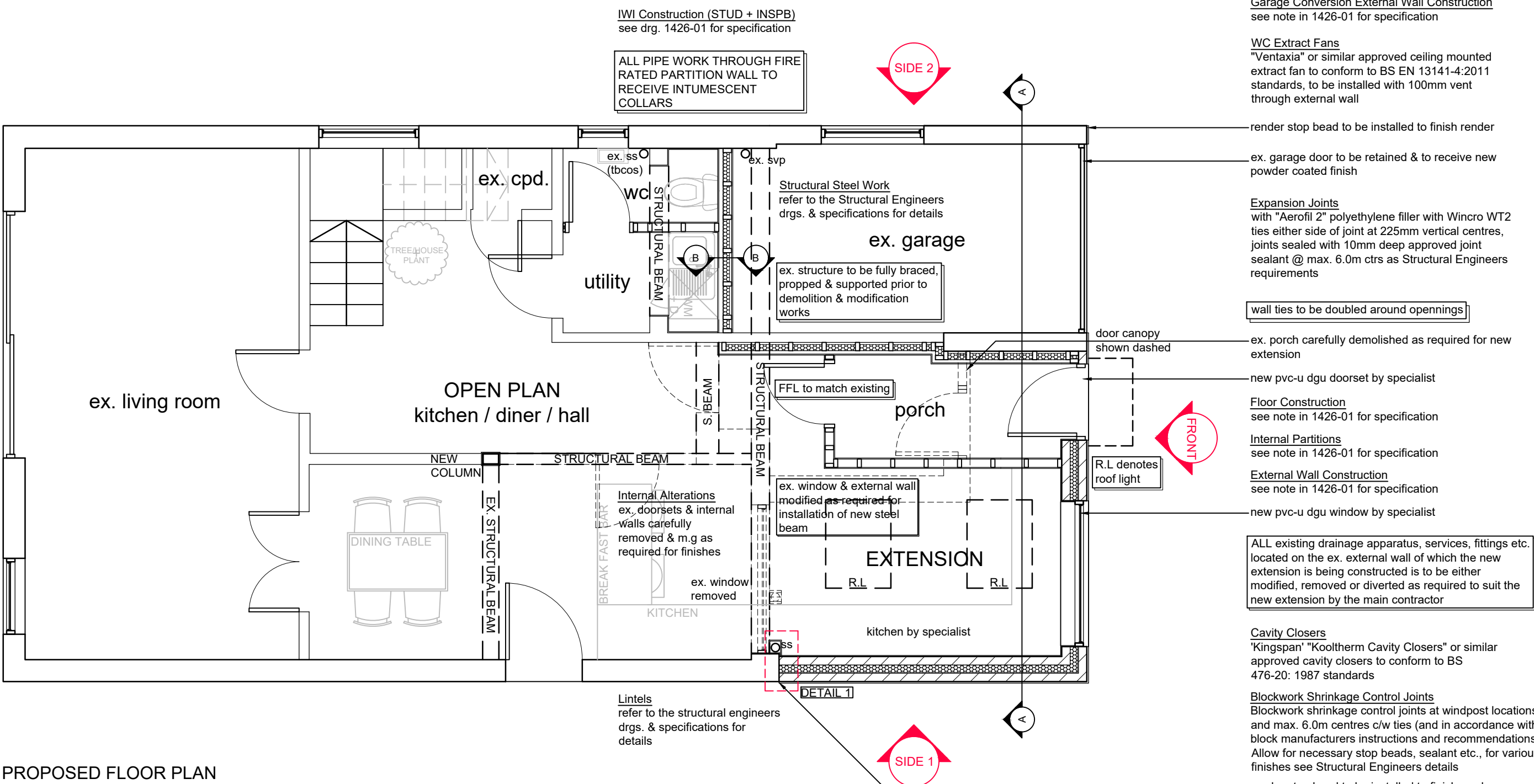
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NOTE: CONTRACTORS TO VERIFY ALL DETAILS, SERVICES (ABOVE AND BELOW GROUND) DIMENSIONS ETC. PRIOR TO COMMENCEMENT OF WORKS  
drawing to be read in conjunction with relevant Neptune Planning & Development Ltd., Structural Engineers, M&E Consultants and Specialist Sub-Contractors drawings, specifications, details etc.

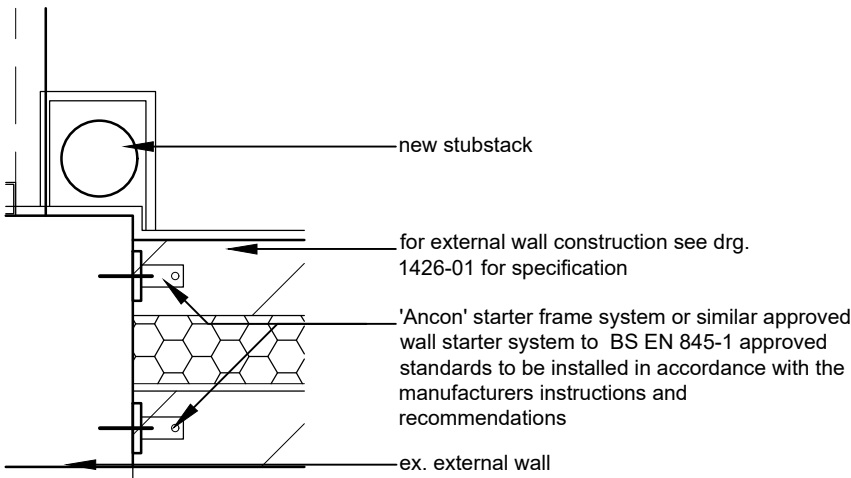


EXISTING FLOOR PLAN



PROPOSED FLOOR PLAN

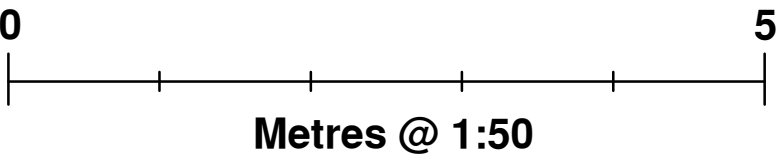
H4 BUILDING OVER OR NEAR PUBLIC SEWERS  
The developer is to consult the Local Sewers Undertaker when constructing, extending or underpinning over a sewer or within 3m of the centreline of sewer shown on the sewerage undertakers sewer records and when the following applies:  
- The building or extension is to be constructed over a manhole or inspection chamber or other access fitting on a sewer.  
- The length of the drain or sewer under the proposed building or extension will exceed 6m.  
The Building or extension is to be constructed over or within 3m of any drain or sewer more than 3m deep or greater than 225m in diameter.



DETAIL 1 @ 1:10

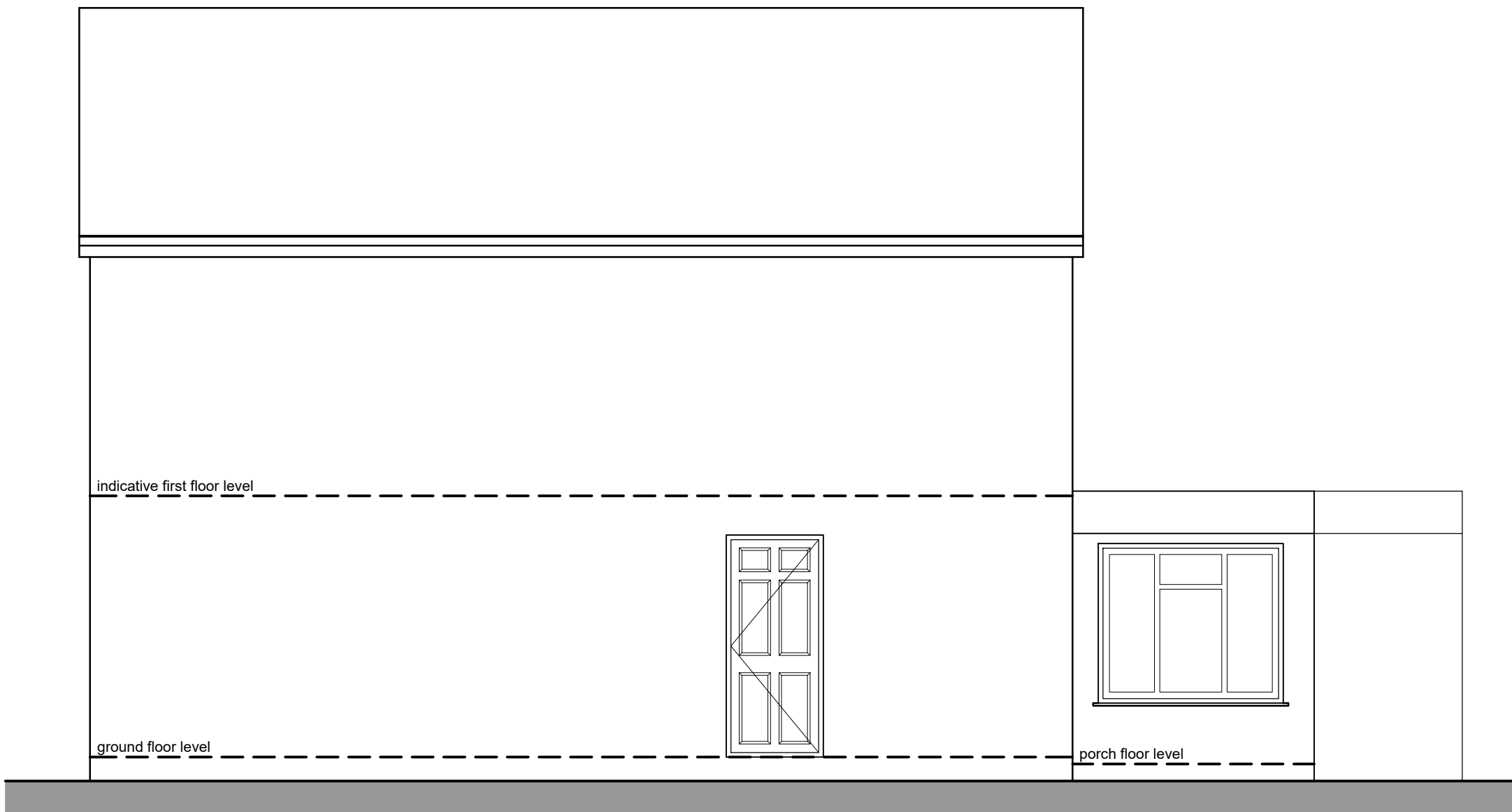
BUILDING REGS

		Project: 22 SAMBOURNE CLOSE SOLIHULL B91 2SA	
Client: Mrs R Fellows		Drawing Title: EXISTING AND PROPOSED SITE LAYOUT & FLOOR PLANS	Checked by:
Scale (s): 1:50	Date: 10/01/22	Size: A1	Project No.: Drawing No.: Revision: 1426 - BR02
		Drawn by:	RAB

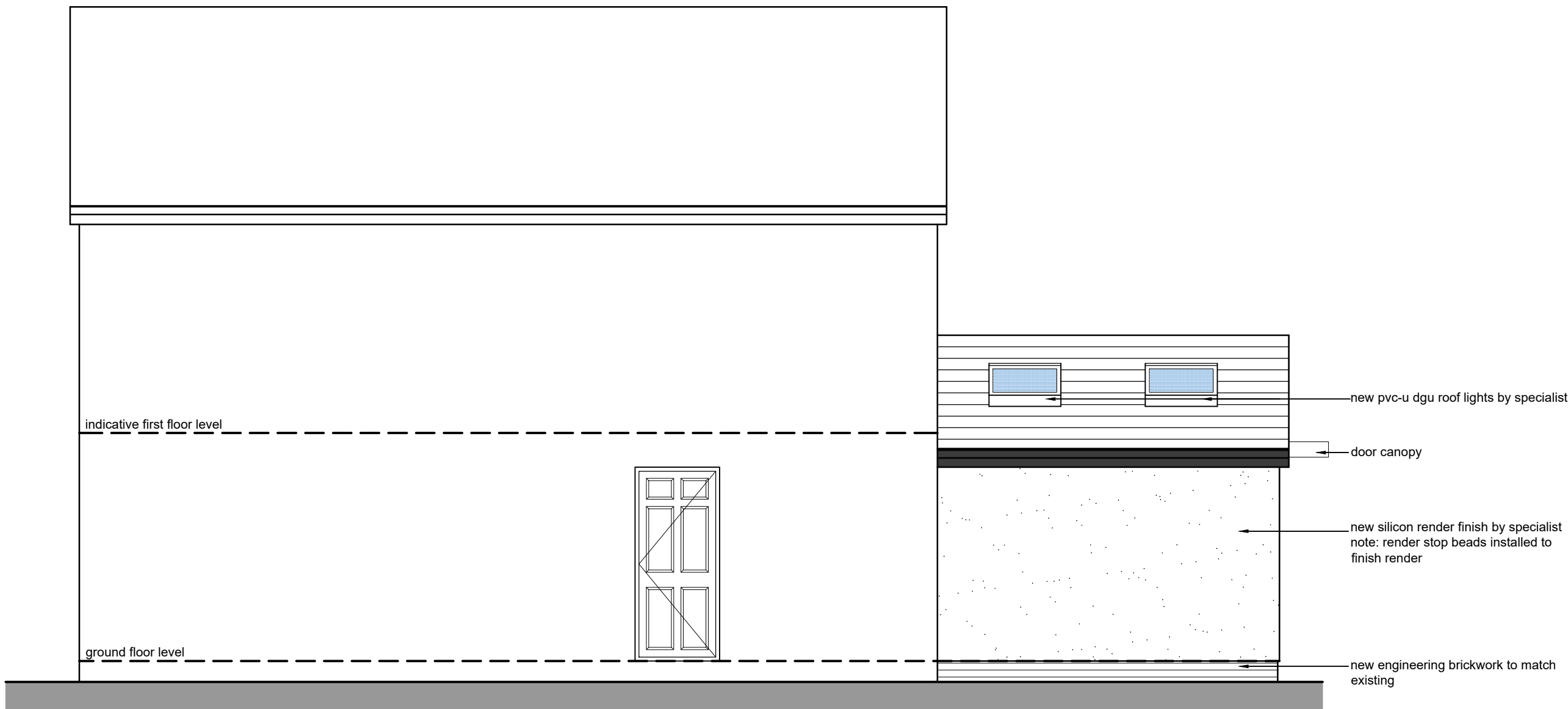


NOTE:  
CONTRACTORS TO VERIFY ALL DETAILS, SERVICES (ABOVE AND BELOW GROUND) DIMENSIONS ETC. PRIOR TO COMMENCEMENT OF WORKS

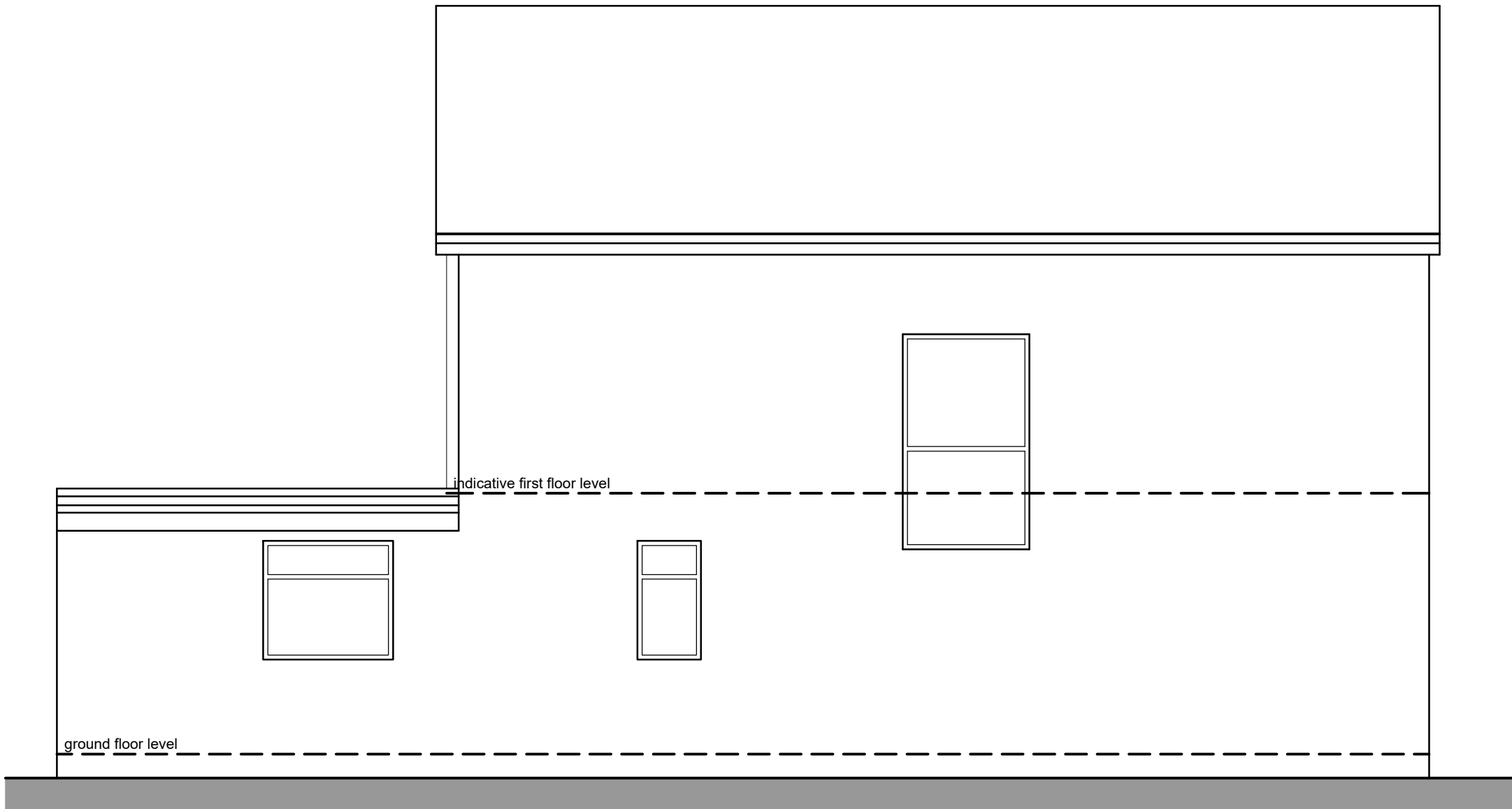
drawing to be read in conjunction with relevant Neptune Planning & Development Ltd., Structural Engineers, M&E Consultants and Specialist Sub-Contractors drawings, specifications, details etc.



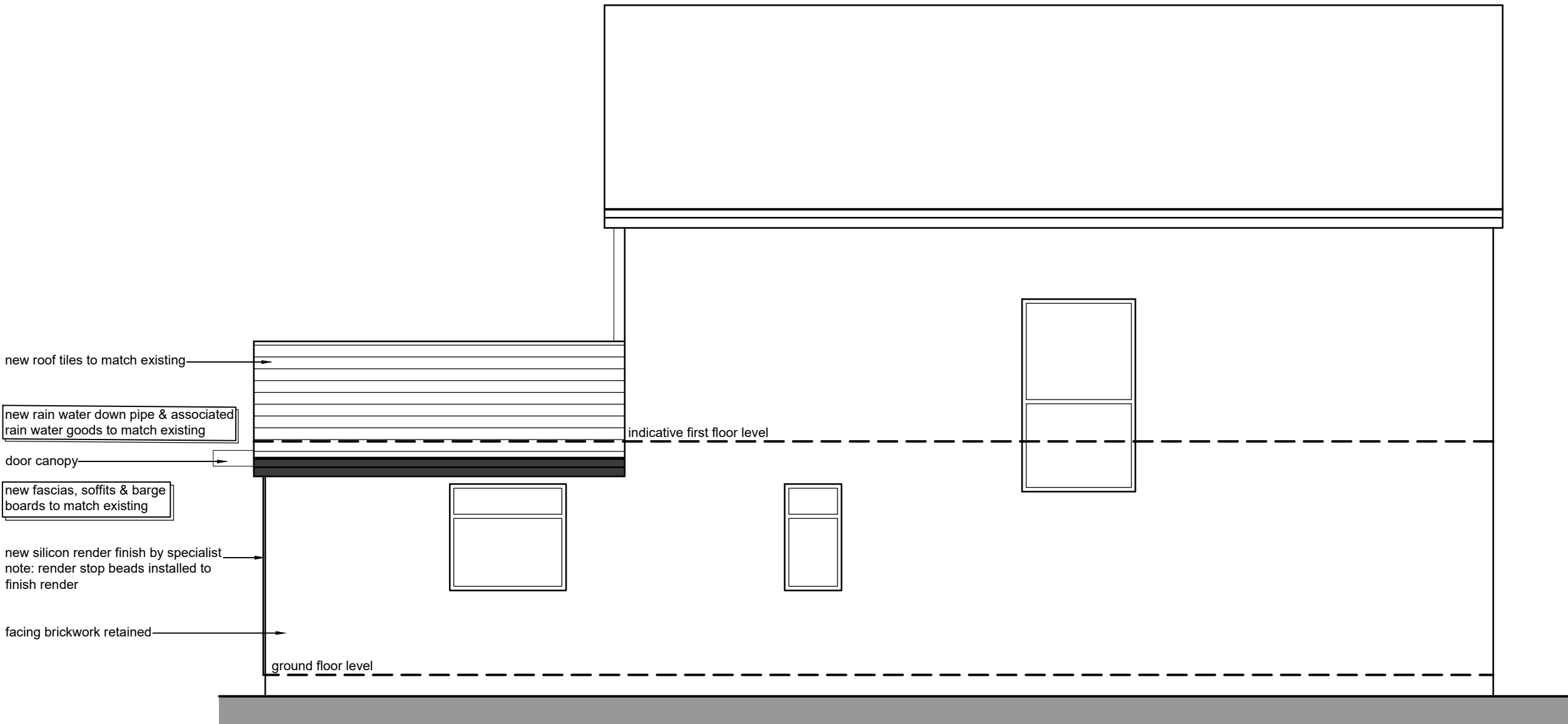
EXISTING SIDE 1 ELEVATION



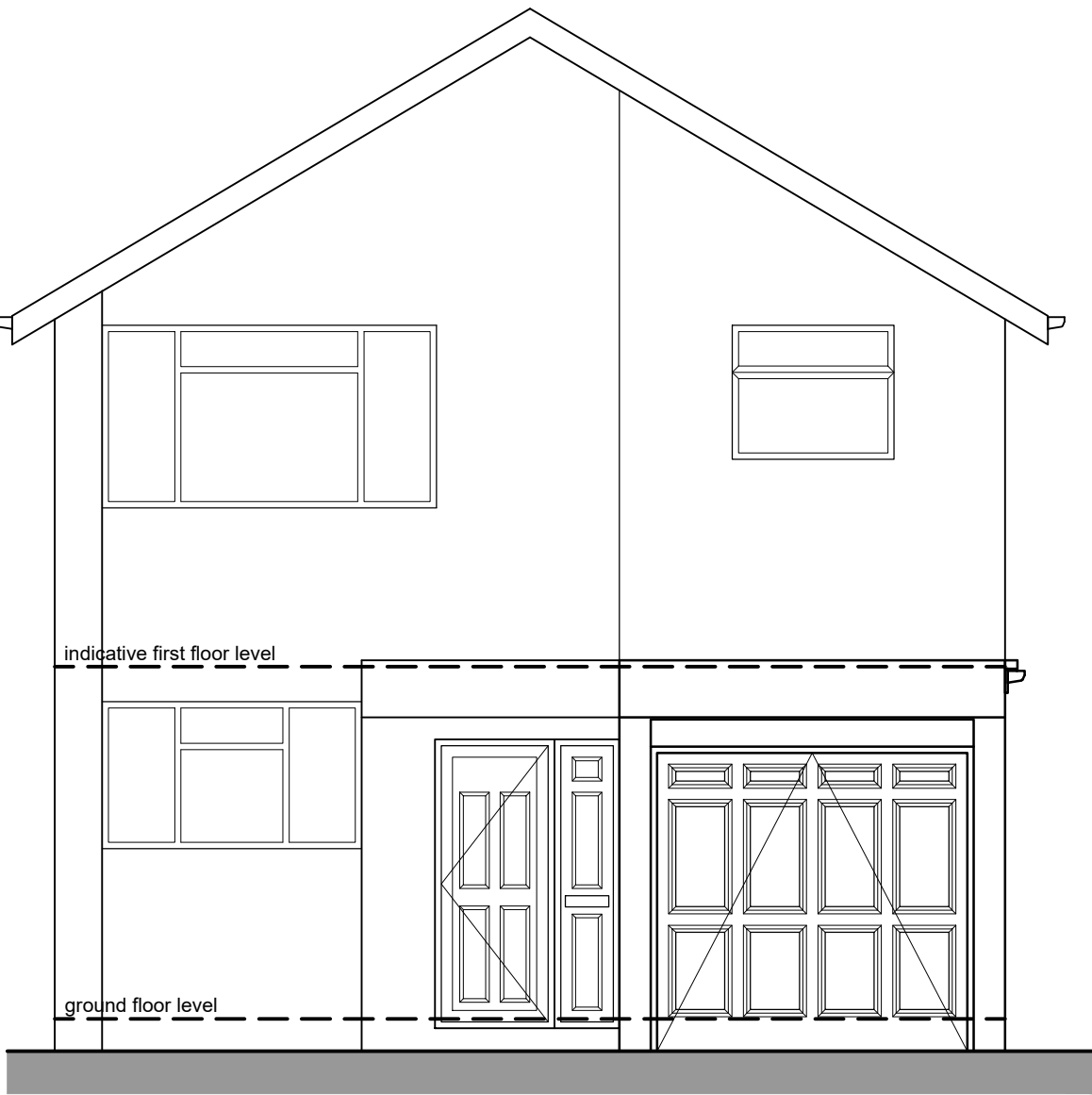
PROPOSED SIDE 1 ELEVATION



EXISTING SIDE 2 ELEVATION



PROPOSED SIDE 2 ELEVATION

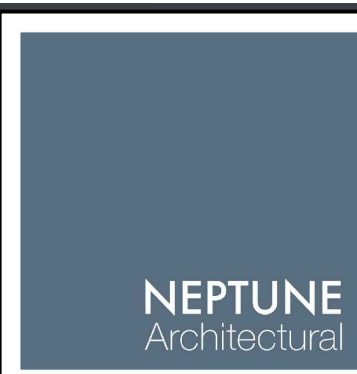


EXISTING FRONT ELEVATION

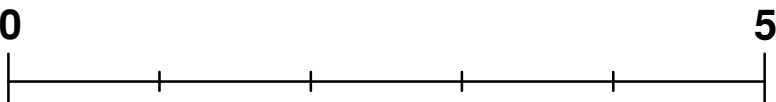


PROPOSED FRONT ELEVATION

Purpose of Issue: BUILDING REGS

 <div>Neptune Architectural Suite 20-24 The White House 93 Lifford Street Limerick B79 7GP 01675 944411 www.neptunearchitectural.co.uk</div>	Project: 22 SAMBOURNE CLOSE SOLIHULL B91 2SA	
Client: Mrs R Fellows		Drawing Title: EXISTING & PROPOSED ELEVATIONS
Scale (s): 1:50	Date: 10/01/22	Size: A1
Project No.: 1426 - BR03		Revision: RAB





NOTE:  
CONTRACTORS TO VERIFY ALL DETAILS, SERVICES (ABOVE AND BELOW GROUND) DIMENSIONS ETC. PRIOR TO COMMENCEMENT OF WORKS

drawing to be read in conjunction with relevant Neptune Planning & Development Ltd., Structural Engineers, M&E Consultants and Specialist Sub-Contractors drawings, specifications, details etc.

ALL lead work to be carried out by competent/qualified persons and in accordance with BS6915:1986 & LSA guidelines

'Marley' or similar approved duo-pitched roof tile

Warm Roof Construction  
see drg. 1426-01 for specification

External Wall Construction  
see drg. 1426-01 for specification

'Velux' or similar approved installed to be agreed with the Client in accordance with the manufacturers instructions and recommendations

Eaves  
25mm thk. sw fascia board and 9mm external quality 'Eurocell' pvc-u soffit (colour to match existing)

wall ties to be doubled around openings

Rain Water Goods  
'Osma' guttering system or similar approved installed to the manufacturers instructions/recommendations

Expansion Joints  
with 'Aerofill 2' polyethylene filler with Wincro WT2 ties either side of joint at 225mm vertical centres, joints sealed with 10mm deep approved joint sealant @ max. 6.0m ctrs as Structural Engineers requirements

Blockwork Shrinkage Control Joints  
Blockwork shrinkage control joints at windpost locations and max. 6.0m centres c/w ties (and in accordance with block manufacturers instructions and recommendations) Allow for necessary stop beads, sealant etc., for various finishes see Structural Engineers details

'Hyload' or similar approved cavity trays & DPCs installed in accordance with the manufacturers instructions & recommendations

stop beads to be installed to external wall for render finish

DPM to lap under DPC in accordance with the manufacturers details and specifications

class B engineering brick work & block work to conform to BS EN 771 standards to ensure suitable for construction below dpc level, GEN3 concrete cavity fill to 225mm below dpc

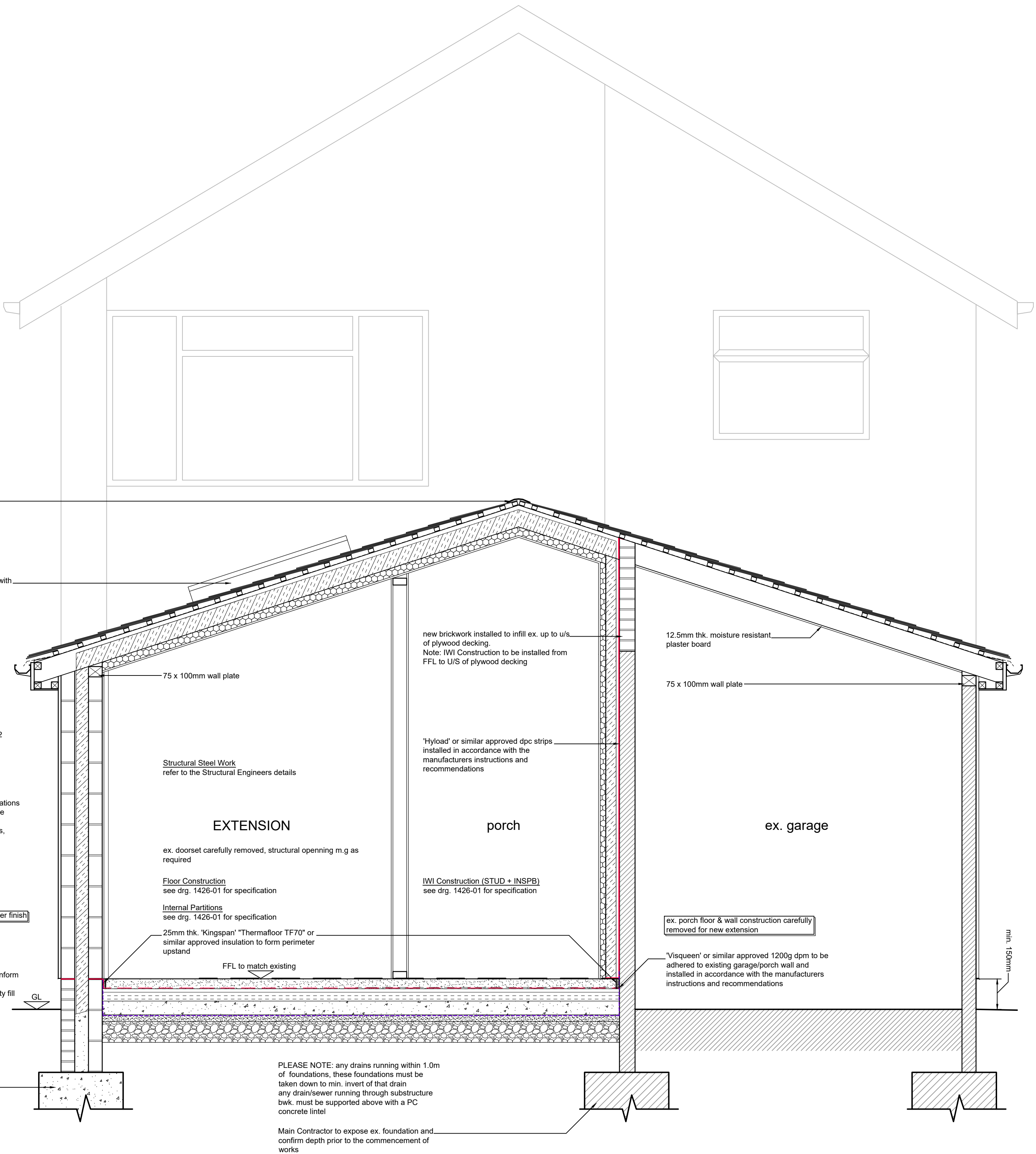
PLEASE NOTE: any drains running within 1.0m of foundations, these foundations must be taken down to min. invert of that drain any drain/sewer running through substructure bwk. must be supported above with a PC concrete lintel

Main Contractor to expose ex. foundation and confirm depth prior to the commencement of works

SECTION A\_A @ 1:20

'Velux' 'Roof Window - MK06' with integral blackout blind or similar approved installed in accordance with the manufacturers instructions and recommendations

ROOFLIGHT @ 1:20



15mm thk. 'Gyproc' 'FireLine Board MR' or similar approved fire rated board fixed to timber stud work for 60mins min. fire resistance

sw timber sole plate

engineering brick work

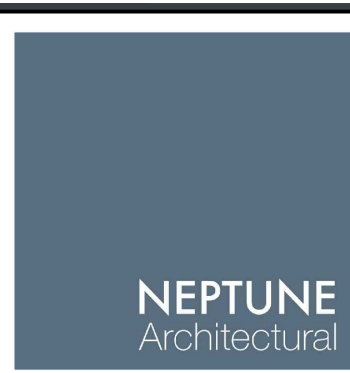
ex. floor slab shown indicative only

SECTION B\_B @ 1:20

IWI CONSTRUCTION (STUD + INSPB)

15mm 'Gyproc' 'Fireline MR' board or similar approved fire rated plasterboard fixed to 100x50mm timber studwork @ 400mm ctrs, with sole plate bolted to the top of the brickwork with 'Hyload' or similar approved dpc strips, 75mm thk. 'Kingspan' 'Kooltherm K112 Framing Board' or similar approved system with a 25mm thk. timber stop batten fixed in between insulation and brickwork ALL to be installed in strict accordance with the manufacturers instructions & recommendation, 52.5mm thk. 'Kingspan' 'Kooltherm K118 Insulated Plasterboard' fixed to studwork or similar approved system to be installed in accordance with the manufacturers instructions & recommendations, skim finish to be applied to finish the wall. (U value = 0.17W/m²K)

Purpose of Issue: BUILDING REGS

 <div>Neptune Architectural Suite 23-24 The White House 93 Lifford Street Limerick B78 7GP 01675 944411 www.neptunearchitectural.co.uk</div>		Project: 22 SAMBOURNE CLOSE SOLIHULL B91 2SA	
Client: Mrs R Fellows		Drawing Title: SECTIONS	Checked by:
Scale (s): 1:20	Date: 10/01/22	Size: A1	Project No.: Drawing No.: Revision: 1426 - BR04
		Drawn by:	RAB



BUILDING REGULATIONS NOTES

All notes to be read and applied as applicable

MATERIALS AND WORKMANSHIP

All works are to be carried out in a workmanlike manner. All materials and workmanship must comply with Regulation 7 of the Building Regulations, all relevant British Standards, European Standards, Agreement Certificates, Product Certification of Schemes (Kite Marks) etc. Products conforming to a European technical standard or harmonised European product should have a CE marking.

SITE PREPARATION

Ground to be prepared for new works by removing all unsuitable material, vegetable matter and tree or shrub roots to a suitable depth to prevent future growth. Seal up, cap off, disconnect and remove existing redundant services as necessary. Reasonable precautions must also be taken to avoid danger to health and safety caused by contaminants and ground gases e.g. landfill gases, radon, vapours etc. on or in the ground covered, or to be covered by the building.

EXISTING STRUCTURE

Existing structure including foundations, beams, walls and lintels carrying new and altered loads are to be exposed and checked for adequacy prior to commencement of work and as required by the Building Control Officer.

WALLS

RENDERED BLOCKWORK EXTERNAL WALL CONSTRUCTION

20mm thk. render finish to conform to BS EN 13914 on 100mm thk. dense blockwork, 90mm thk. 'Kingspan' "Kooltherm K106 Cavity Board" or similar PIR insulation boards installed in strict accordance with the manufacturers instructions & recommendations with a 10mm thk. residual cavity (100mm thk. cavity), 100mm thk. aerated blockwork (k-value = 0.15W/mK), tie leaves together with Wincro WT2 ties at 750mm horizontal ctrs. and 450mm vertical ctrs. (staggered) and 225mm ctrs. (U value = 0.17W/m²K)

IWI CONSTRUCTION (STUD + INSPB)

102mm thk. facing brickwork to match existing / retained brickwork / 15mm 'Gyproc' "Fireline MR" board or similar approved fire rated plasterboard with 100x50mm timber studwork @ 400ctr. fixed to brick work with 'Hyload' or similar approved dpc strips, 75mm thk. 'Kingspan' "Kooltherm K112 Framing Board" or similar approved system with a 25mm thk. timber stop batten fixed in between insulation and brickwork ALL to be installed in strict accordance with the manufacturers instructions & recommendation, 52.5mm thk. 'Kingspan' "Kooltherm K118 Insulated Plasterboard" fixed to studwork or similar approved system to be installed in strict accordance with the manufacturers instructions & recommendations, skim finish to be applied to finish the wall. (U value = 0.17W/m²K)

PITCHED ROOF

ROOF (INSULATION BETWEEN & UNDER RAFTER) CONSTRUCTION

'Marley Eternit' or similar approved roof tiles to match existing on 38x25mm tanalised battens on 'Tyvek' or similar approved breather membrane to BS5250 all installed in strict accordance with the manufacturers instructions & recommendations.

120mm thk. 'Kingspan' "Kooltherm K107 Pitched Roof Board" or similar approved PIR insulation to be installed between rafters, 72.5mm thk. 'Kingspan' "Kooltherm K118 Insulated Plasterboard" to be installed beneath the rafter line as shown in accordance with the manufacturers instructions and recommendations. (U value = 0.12W/m²K)

FLOOR

FLOOR CONSTRUCTION

75mm thk. screed and finish (floor finish TBC) on 'Visqueen' or similar approved 500g polythene separation layer/VCL on 90mm thk. 'Kingspan' "Kooltherm K103 Floorboard" or similar approved PIR insulation to be installed in accordance with the manufacturers instructions & recommendations on 150mm thk. concrete slab to be constructed in strict accordance with the Structural Engineers drawings / calculations, on 1200 gauge 'Visqueen' or similar approved DPM well lapped with DPC's on 50mm sand blinding on top of consolidated well rammed hardcore min. 150mm thk. (U value = 0.17W/m²K)

GARAGE CONVERSION FLOOR CONSTRUCTION

75mm thk. screed and finish (floor finish TBC) on 'Visqueen' or similar approved 500g polythene separation layer/VCL on 75mm thk. 'Kingspan' "Kooltherm K103 Floorboard" or similar approved PIR insulation to be installed in accordance with the manufacturers instructions & recommendations on 1200 gauge 'Visqueen' or similar approved DPM well lapped with DPC's (U value = 0.20W/m²K)

FOUNDATIONS

mass concrete foundations, width and depth to be confirmed onsite by LABC.

BEAMS

Refer to the Structural Engineers drawings and specifications for details

LINTELS

- For uniformly distributed loads and standard 2 storey domestic loadings only  
Lintel widths are to be equal to wall thickness. All lintels over 750mm sized internal door openings to be 65mm deep pre-stressed concrete plank lintels. 150mm deep lintels are to be used for 900mm sized internal door openings. Lintels to have a minimum bearing of 150mm on each end.  
Any existing lintels carrying additional loads are to be exposed for inspection at commencement of work on site. All pre-stressed concrete lintels to be designed and manufactured in accordance with BS EN 1992-1-1, with a concrete strength of 50 or 40 N/mm² and incorporating steel strands to BS5896 to support loadings assessed to BS 5977 Part 1.  
For other structural openings provide proprietary insulated steel lintels suitable for spans and loadings in compliance with Approved Document A and lintel manufacturer's standard tables. Stop ends, DPC trays and weep holes to be provided above all externally located lintels.  
Independent lintels to have an insulated cavity closure between the inner and outer lintel. Common leaf lintels base plates should not be continuous and the lintel core to be insulated.

THERMAL BRIDGING

Care shall be taken to limit the occurrence of thermal bridging in the insulation layers caused by gaps within the thermal element, (i.e. around windows and door openings). Reasonable provision shall also be made to ensure the extension is constructed to minimise unwanted air leakage through the new building fabric.

STRAPPING FOR PITCHED ROOF

Gable walls should be strapped to roofs at 2m centres. All external walls running parallel to roof rafters to be restrained at roof level using 1000mm x 30mm x 5mm galvanised mild steel horizontal straps or other approved to BSEN 845-1 built into walls at max 2000mm centres and to be taken across minimum 3 rafters and screw fixed. Provide solid noggins between rafters at strap positions.  
All wall plates to be 100 x 50mm fixed to inner skin of cavity wall using 30mm x 5mm x 1000mm galvanised metal straps or other approved to BSEN 845-1 at maximum 2m centres.

OPENINGS AND RETURNS

An opening or recess greater than 0.1m² shall be at least 550mm from the supported wall (measured internally).

DPC

Provide horizontal strip polymer (hyload) damp proof course to both internal and external skins minimum 150mm above external ground level. New DPC to be made continuous with existing DPC's and with floor DPM. Vertical DPC to be installed at all reveals where cavity is closed.

WALL TIES

All walls constructed using stainless steel vertical twist type retaining wall ties built in at 750mm ctrs horizontally, 450mm vertically and 225mm ctrs at reveals and corners in staggered rows. Wall ties to be suitable for cavity width and in accordance with BS EN 845

CAVITIES

Provide cavity trays over openings. All cavities to be closed at eaves and around openings using Thermabate or similar non combustible insulated cavity closers. Provide vertical DPCs around openings and abutments. All cavity trays must have 150mm upstands and suitable cavity weepholes (min 2) at max 900mm centres.

EXISTING TO NEW WALL

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

CAVITY BARRIERS

30 minute fire resistant cavity barriers to be provided at tops of walls, gable end walls and vertically at junctions with separating walls & horizontally at separating walls with cavity tray over installed according to manufacturer's details.

MOVEMENT JOINTS

Movement joints to be provided at the following maximum spacing:  
Clay brickwork - 12m.  
Calcium silicate brick - 7.5-9m.  
Lightweight concrete block - density not exceeding 1,500kg/m3 - 6m.  
Dense concrete block - density exceeding 1,500kg/m3 – 7.5-9m.  
Any masonry in a parapet wall (length to height ratio greater than 3:1) - half the above spacings and 1.5m from corners.  
Movement joint widths for clay bricks to be not less than 1.3mm/m i.e. 12m = 16mm and for other masonry not less than 10mm.  
Additional movement joints may be required where the aspect ratio of the wall (length :height) is more than 3:1.  
Considerations to be given to BS EN 1996-1-2:2005 Eurocode 6. Design of masonry structure.

LEAD WORK AND FLASHINGS

All lead flashings, any valleys or soakers to be Code 5 lead and laid according to Lead Development Association. Flashings to be provided to all jams and below window openings with welded upstands. Joints to be lapped min 150mm and lead to be dressed 200mm under tiles, etc. All work to be undertaken in accordance with the Lead Development Association recommendations.

INTERNAL STUD PARTITIONS

100mm x 50mm softwood treated timbers studs at 400mm ctrs with 50 x 100mm head and sole plates and solid intermediate horizontal noggins at 1/3 height or 450mm. Provide min 10kg/m³ density acoustic soundproof quilt tightly packed (eg. 100mm Rockwool or Isowool mineral fibre sound insulation) in all voids the full depth of the stud. Partitions built off doubled up joists where partitions run parallel or provide noggins where at right angles, or built off DPC on thickened concrete slab if solid ground floor. Walls faced throughout with 12.5mm plasterboard with skim plaster finish. Taped and jointed complete with beads and stops.

ELECTRICAL

All electrical work required to meet the requirements of Part P (electrical safety) must be designed, installed, inspected and tested by a competent person registered under a competent person self certification scheme such as BRE certification Ltd, BSI, NICEIC Certification Services or Zurich Ltd. An appropriate BS7671 Electrical Installation Certificate is to be issued for the work by a person competent to do so. A copy of a certificate will be given to Building Control on completion.

INTERNAL LIGHTING

Install low energy light fittings that only take lamps having a luminous efficiency better than 80 lumens per circuit watt. All fixed to have lighting capacity (lm) 185 x total floor area, to comply with Part L of the current Building Regulations and the Domestic Building Services Compliance Guide.

HEATING

Extend all heating and hot water services from existing and provide new TRVs to radiators. Heating system to be designed, installed, tested and fully certified by a GAS SAFE registered specialist. All work to be in accordance with the Local Water Authorities bye laws, the Gas Safety (Installation and Use) Regulations 1998 and IEE Regulations.  
The energy performance of the new components to be assessed. The results should be recorded and given to the building owner.  
All accessible pipes to be insulated to the standards in Table 4.4 Approved Document L.

BEAMS

Supply and install new structural elements such as new beams, roof structure, floor structure, bearings, and padstones in accordance with the Structural Engineer's calculations and details. New steel beams to be encased in 12.5mm Gyproc FireLine board with staggered joints, Gyproc FireCase or painted in Nullifire S or similar intumescent paint to provide 1/2 hour fire resistance as agreed with Building Control. All fire protection to be installed as detailed by specialist manufacturer.

SMOKE DETECTION

Mains operated linked smoke alarm detection system to BS EN 14604 and BS 5839-6:2019 to at least a Grade D category LD3 standard and to be mains powered with battery back up. Smoke alarms should be sited so that there is a smoke alarm in the circulation space on all levels/ storeys and within 7.5m of the door to every habitable room. If ceiling mounted they should be 300mm from the walls and light fittings. Where the kitchen area is not separated from the stairway or circulation space by a door, there should be an interlinked heat detector in the kitchen.

SAFETY GLAZING

All glazing in critical locations to be toughened or laminated safety glass to BS 6206, BS EN 14179 or BS EN ISO 12543-1 and Part K (Part N in Wales) of the current Building Regulations, i.e. within 1500mm above floor level in doors and side panels within 300mm of door opening and within 800mm above floor level in windows.

NEW AND REPLACEMENT WINDOWS

New and replacement windows to be double glazed with 16-20mm argon gap and soft coat low-E glass. Window Energy Rating to be Band B or better and to achieve U-value of 1.4 W/m²K. The door and window openings should be limited to 25% of the extension floor area plus the area of any existing openings covered by the extension. Insulated plasterboard to be used in reveals to abut jambs and to be considered within reveal soffits. Fully insulated and continuous cavity closers to be used around reveals. Windows and door frames to be taped to surrounding openings using air sealing tape.  
Windows to be fitted with trickle vents to provide adequate background ventilation in accordance with Approved Document F.

NEW AND REPLACEMENT DOORS

New and replacement doors to achieve a U-Value of 1.4W/m²K. Glazed areas to be double glazed with 16-20mm argon gap and soft low-E glass. Glass to be toughened or laminated safety glass to BS 6206, BS EN 14179 or BS EN ISO 12543-1 and Part K (Part N in Wales) of the current Building Regulations. Insulated plasterboard to be used in reveals to abut jambs and to be considered within reveal soffits. Fully insulated and continuous cavity closers to be used around reveals.  
Windows and door frames to be taped to surrounding openings using air sealing tape.

PURGE VENTILATION

Minimum total area of opening in accordance with Table 1.4 Approved Document F1.  
Hinged pivot windows with an opening angle of 15 to 30 degrees to have an openable area in excess 1/10 of the floor area of the room.  
Sash windows, external doors or hinged pivot windows with an opening angle of equal to or greater than 30 degrees to have an openable area in excess of 1/20 of the floor area of the room.  
Purge ventilation should be capable of extracting at least 4 air changes per hour per room directly to the outside.  
Internal doors should be provided with a 10mm gap below the door to aid air circulation.

EXTRACT TO WC

WC to have mechanical ventilation ducted to external air with an extract rating of 15l/s operated via the light switch. Vent to have a 15min overrun if no window in room. Internal doors should be provided with a 10mm gap below the door to aid air circulation. Ventilation provision in accordance with the Domestic Ventilation Compliance Guide. Intermittent extract fans to BS EN 13141-4. All fixed mechanical ventilation systems, where they can be tested and adjusted, shall be commissioned and a commissioning notice given to the Building Control Body.

BACKGROUND VENTILATION

Controllable background ventilation at least 1700mm above floor level to be provided to habitable rooms and kitchens at a rate of min 10,000mm², and to wet rooms at a rate of min 5000mm², Background ventilators to be tested to BS EN 13141-1  
Background ventilator equivalent area and operation to be measured and recorded.

C2. CONDENSATION

Walls, floors and roof of the building to be designed and constructed so that their structural and thermal performance will not be adversely affected by interstitial condensation, surface condensation or mould growth. Account to be taken of the building's form and orientation in relation to topography, prevailing winds, sunlight and over-shadowing, and the rate at which humidity is generated.  
Materials with the highest vapour resistance should be located on the warm side of a thermal element. VCLs to be provided where necessary. The junctions between elements are designed to Accredited Construction Details or guidance of BRE IP17/01] and BS 5250:2011+A1:2016 Code of practice for control of condensation in buildings to be followed.

RAINWATER DRAINAGE

New rainwater goods to be new 110mm UPVC half round gutters taken and connected into 68mm dia UPVC downpipes. Rainwater taken to new soakaway or mains sewer, situated a min distance of 5.0m away from any building, via 110mm dia UPVC pipes surrounded in 150mm granular fill. Soakaway to be min of 1 cubic metre capacity (or to depth to Local Authorities approval) with suitable granular fill and with geotextile surround to prevent migration of fines. If necessary carry out a porosity test to determine design and depth of soakaway.

UNDERGROUND FOUL DRAINAGE

Underground drainage to consist of 100mm diameter UPVC proprietary pipe work to give a 1:40 fall. Surround pipes in 100mm pea shingle. Provide 600mm suitable cover (900mm under drives). Shallow pipes to be covered with 100mm reinforced concrete slab over compressible material. Provide rodding access at all changes of direction and junctions. All below ground drainage to comply with BS EN 1401-1.

ABOVE GROUND DRAINAGE

All new above ground drainage and plumbing to comply with BS EN 12056-2 for sanitary pipework.  
All drainage to be in accordance with Part H of the Building Regulations. Wastes to have 75mm deep anti vac bottle traps and rodding eyes to be provided at changes of direction.  
Size of wastes pipes and max length of branch connections (if max length is exceeded then anti vacuum traps to be used)  
Wash basin - 1.7m for 32mm pipe 3m for 40mm pipe  
Bath/shower - 3m for 40mm pipe 4m for 50mm pipe  
W/c - 6m for 100mm pipe for single WC  
All branch pipes to connect to 110mm soil and vent pipe terminating min 900mm above any openings within 3m.  
Or to 110mm upvc soil pipe with accessible internal air admittance valve complying with BS EN 12380, placed at a height so that the outlet is above the trap of the highest fitting.  
Waste pipes not to connect on to SVP within 200mm of the WC connection.  
Supply hot and cold water to all fittings as appropriate.

PIPEWORK THROUGH WALLS

Where new pipework passes through external walls the pipe work is to be provided with 'rocker pipes' at a distance of 150mm either side of the wall face. The 'rocker pipes' must have flexible joints and be a maximum length of 600mm.  
Alternatively provide 75mm deep pre-cast concrete plank lintels over drain to form opening in wall to give 50mm space all round pipe: mask opening both sides with rigid sheet material and compressible sealant to prevent entry of fill or vermin.

H4 BUILDING OVER OR NEAR PUBLIC SEWERS

The developer is to consult the Local Sewers Undertaker when constructing, extending or underpinning over a sewer or within 3m of the centreline of sewer shown on the sewerage undertakers sewer records and when the following applies:  
- The building or extension is to be constructed over a manhole or inspection chamber or other access fitting on a sewer.  
- The length of the drain or sewer under the proposed building or extension will exceed 6m.  
- The Building or extension is to be constructed over or within 3m of any drain or sewer more than 3m deep or greater than 225m in diameter.

PIPES PASSING THROUGH TRENCH FOUNDATIONS


The load-bearing capability of foundations must not be affected where services pass through.  
The pipe work should be sleeved and be provided with 'rocker pipes' at a distance of 150mm either side of the foundation concrete. The 'rocker pipes' should have flexible joints and be a maximum length of 600mm.  
Alternatively pipework should pass through a suitably strengthened opening in the foundation, i.e. foundation shuttered and provided with suitable lintel over the pipe allowing for sufficient space for movement to ensure that the drain is capable of maintaining line and gradient. Opening should be masked with granular backfill (pea shingle) around the pipe.  
DPC to be provided as required by BCO.  
Advice from Building Control to be sought on suitability of pipe running through foundation before construction.

PIPES PASSING THROUGH WALLS

Walls above pipes passing through substructure walls to be supported on suitable lintel on semi-engineering bricks. Pipe to be provided with a 50mm clearance all round, opening to be masked with granular backfill (pea shingle) around pipe. DPC to be provided as required by BCO.  
Alternatively where new pipework passes through external walls the pipe work is to be provided with 'rocker pipes' at a distance of 150mm either side of the wall face. The 'rocker pipes' must have flexible joints and be a maximum length of 600mm.

IMPORTANT NOTE

ALL PRODUCTS AND SYSTEMS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS & RECOMMENDATIONS

NOTE: CONTRACTORS TO VERIFY ALL DETAILS, SERVICES (ABOVE AND BELOW GROUND) DIMENSIONS ETC. PRIOR TO COMMENCEMENT OF WORKS  drawing to be read in conjunction with relevant Neptune Planning & Development Ltd., Structural Engineers, M&E Consultants and Specialist Sub-Contractors drawings, specifications, details etc.			REV'S	Issue Name	Issue Date	Issued By
 <div>Neptune Architectural Suite 23-24 The White House 93 Lifford Street Limerick B78 7GF 01678 944411 www.neptunearchitectural.co.uk</div>			Project: 22 SAMBOURNE CLOSE SOLIHULL B91 2SA			
Client: Mrs R Fellows			Drawing Title: SPECIFICATION		Checked by:	
Scale (s):	Date:	Size:	Project No.: Drawing No.: Revision:			Drawn by:
	10/01/22	A1	1426 - BR02			RAB