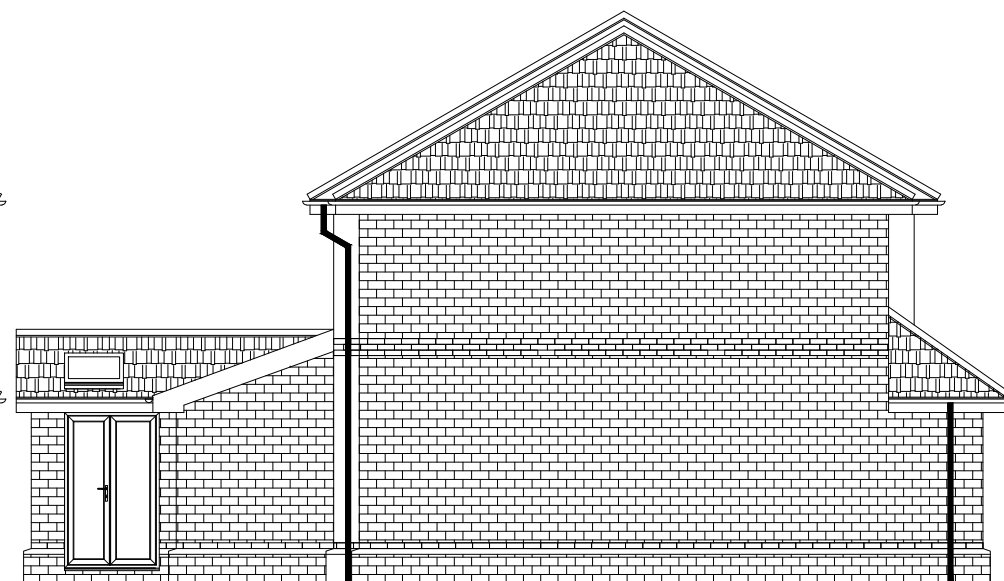




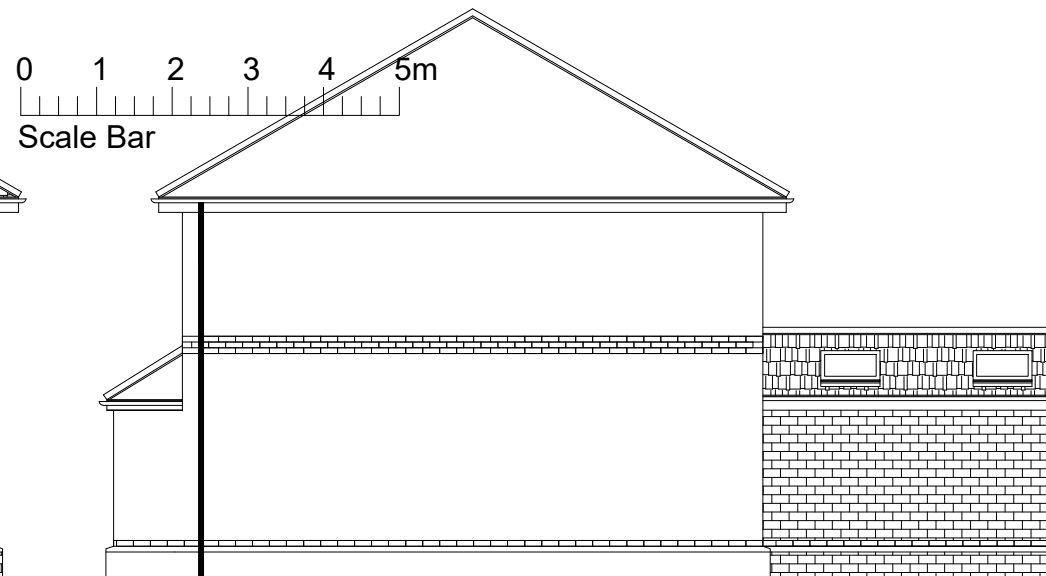
**PROPOSED FRONT ELEVATION**



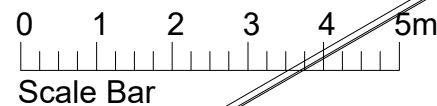
**PROPOSED SIDE ELEVATION**



**PROPOSED REAR ELEVATION**



**PROPOSED SIDE ELEVATION**



**FIRST FLOOR CONSTRUCTION**

22mm Weyroc to BS 5669 on 200 x 50 C16 joists @ 600mm crs approx and built into blockwork each end and supported by steel beam designed by Engineer. Herring bone strutting spaced at mid span of floor joists. 2 x 12.5mm wallboard with staggered joints to garage ceiling with 200mm Quilt insulation in floor void. 15mm Plasterboard and skim to u/side with 100mm Quilt insulation in floor void over Utility

**GROUND FLOOR CONSTRUCTION**

65mm Mesh reinforced screed to be laid on a 500 gauge separation membrane on 100mm Kingspan K103 floor insulation or similar on 2000 gauge visqueen turned up 100mm at wall abutments with all laps and intersections taped and sealed in accordance with Agreement Certificate 87/1796. on 100mm oversite on 150mm approved consolidated hardcore. Must achieve minimum U-value of 0.18 W/m2K. Ventilation must be maintained to the existing house sub floor through the new ground supported floor. This can be achieved using 100mm diameter pipes and telescopic vents.

**RADIATORS**

All new radiators to be provided with Thermostatic valves. Client to agree locations with Builder prior to commencement of works.

**INTERNAL GARAGE WALL**

12.5mm plasterboard and skim to inner face of tanalised 140 x 50 studs. 140mm TW55 in void with mesh reinforced quilt at head of wall for fire protection. 30 mins fire door with 25mm rebated frame, cold smoke seals and self-closing device (perko or similar) with step down to garage (or non-combustible thresh provided).

**RAINWATER GOODS**

Gutters to be molded upvc to match existing Rainwater pipe to connect to existing drains. All pipes to be fitted with rodding access to all changes of direction and at junctions. All new underground pipes to be 110mm UPVC laid 1:40 fall min. with granular encasement. Rainwater gulley to be trapped.

**INTERNAL WALL CONSTRUCTION**

Non loadbearing internal walls shall be stud partitions comprising 75 x 75mm sole and head plates and 75 x 50 mm vertical studs at 600 mm maximum centres. 75 x 50mm noggins are to be incorporated between studs at 600 mm centres vertically. 50 x 38 mm intermediate noggins as required for radiators, shelves, socket and switch boxes etc. Stud Partitions to be dry-lined with 12.7 mm British Gypsum wallboard, Ames mechanical jointing, Topcoat finish.

80mm rockwool quilt in void and moisture resistant plasterboard and skim to bathroom walls

**WINDOWS**

New windows to be double glazed in UPVC frame to match existing to pattern shown and all windows to habitable rooms are to be supplied pre-fitted with permanently fixed controllable trickle ventilators having an area not less than 10000mm2. All glazing below 800mm above floor level, and in doors or 300mm adjacent doors, to be either toughened or laminated safety glass in accordance with BS 6206:1981. Soft coat Low E glass to inner skin. Certification to verify Part L1 compliance 1.4W/m2K) to be issued from suppliers.

New UPVC windows to First Floor Bedrooms to be fitted with an unobstructed openable area of 0.33m2 with minimum dimensions of 450mm high x 450mm wide (i.e clear opening of 750 x 450mm) Window not to be fitted with removable key and bottom of openable area to be between 800mm and 1100mm above floor level. 10000mm2 trickle vents required.

**VENTILATION**

Mechanical extractor capable of 15 litres / second to be vented through external Shower room / Bathroom wall

Mechanical extractor capable of 30 litres / second to be vented through external utility wall.

Mechanical extractor capable of 60 litres / second (or 30 L/s incorporated in cooker hood direct to external wall) to be vented through external kitchen wall.

**ELECTRICS**

Electrics must be Part P compliant with full certification that all works are carried out in accordance with BS7671 to be provided, if not Part P credited then separate application to be made through Local Authority Building Control Dept.

**GENERAL**

All works to comply with Current Building Regulations and associated legislation and to the satisfaction of the Local Authorities Building Control Officer. All building materials to comply with BSS and used in accordance with the relevant Codes of Practice. All structural timber to be C16 or C24 grade. All openings to be fitted with vertical and horizontal DPM. All lintels to have 150mm end bearing and 1/2 hour fire resistance. All new electrical work to be 13A ring main and lighting circuit to comply to IEE standards and to clients instructions.

**FOUNDATIONS**

Subject to suitable ground conditions, new strip foundations to comply to BS:8004 on suitable loadbearing strata and to the satisfaction of the Local Authority Building Control Officer. Top of foundations to be min 750mm below ground level and reinforced with A193 mesh with 50mm cover top and bottom. Foundations to be taken below invert levels of existing drains. Check existing foundations and underpin if necessary, at staggered stages. Any deviation from a strip foundation may require design and calculations from Structural Engineer.

NOTE - Should the Builder prefer using a raft foundation in lieu of a strip foundation, they must provide details and calculations to the LA Building control officer prior to commencement of works.

**EXTERNAL WALL**

300mm cavity walling shall comprise of an outer leaf of facing brickwork to match existing, an inner leaf of 100mm thick blockwork "Toplite" or similar, 100mm Dritherm 32 cavity slab full fill insulation taken 225mm below dpc providing minimum U-Value of 0.18W/m2K. Stainless steel vertical twist type wall ties to BS 1243:1978 every 750mm horizontally and 450mm vertically and ties within 150mm of openings to be at 225mm crs vertically. Lateral restraint provided by means of 30mm x 5mm galvanised steel holding down straps @ 2m centres maximum and carried across at least 3 timber members. Vertical strapping required to joists / wallplates by 30mm x 5mm galvanised steel holding down straps @ 2m centres maximum. All masonry below ground level externally and dpc level internally shall be either Class B engineering bricks or loadbearing solid type A blocks. Cavity fill below ground level shall be ordinary prescribed mix to BS 5328, grade C10P. All cavities to be continuous, all openings trimmed with Kingspan Thermabate (or similar) insulated cavity closers. Where pipes pass through wall PC Lintel to be provided and 50mm compressible material to surround pipework. Dpc.s to all openings shall be a minimum width of 150mm Horizontal Dpc located 150 mm above ground level. Blockwork walls shall be finished in 62.5mm Insulated Plasterboard on Dri-wall dabs with all joints to be taped and sealed. Insulated cavity closers to all openings.

**NEW INNER LEAF OF BLOCKWORK TO GABLE WALL**

Existing foundation to be underpinned / overpinned at 1m staggered intervals. New blockwork to be screw tied to existing wall at sufficient centres to satisfy the LA Building Control Officer.

**ABOVE GROUND DRAINAGE**

All waste pipes and fittings from sanitary appliances are to be PVCu to BS5255: 1076. Branch pipes and vent pipes to be PVCu to BS 4514 : 1983. All pipes to be fitted with rodding access to all changes of direction and at junctions. All wastes to be fitted with 75 mm deep seal traps.

**EFFICIENCY LIGHT FITTINGS**

Provide lighting fittings as tabled below to be fixed lighting that only accepts lamps having a luminous efficiency greater than 45 lumens per circuit watt and a total output greater than 400 lamp lumens. Such fittings would include fluorescent tubes and compact fluorescent lamps but not GLS tungsten lamps with bayonet cap or Edison screw bases. *Number not less than three per four of all the light fittings.*

**SMOKE DETECTORS**

Smoke detectors are to be installed in complete compliance with Approved Document B1, Section 1 of the Building Regulations. Multiple installations are to be wired together on a separate circuit in accordance with the current IEE regulations.

**VAULTED ROOF TO SINGLE STOREY EXTENSION**

Pitched 'warm roof' to be Interlocking concrete tiles on 38 x 25 mm treated battens on 38 x 25 mm treated counter battens on Kingspan Nilvent breathable sarking membrane (sealed as necessary with 75mm wide double sided acrylic adhesive tape), on roof to engineer's design. 100mm Kingspan K7 insulation between pushed up with 50mm gap to top of rafters for airflow. 50mm Kingspan K7 boards underline rafters 12.5mm plasterboard and 3mm skim to u/side. Must achieve minimum U-value of 0.15 W/m2K. Galvanised steel restraint straps to be installed at gable wall and 75 x 38 mm sw noggins to be between the rafters at each strap. Spacing of straps to be 1800mm centres max. and straps to be installed at ceiling level and up the slope of the roof and carried across end 3 rafters. Continuous 10mm ventilators at eaves and ducting trays to rafters for airflow in roof.

**ROOF CONSTRUCTION**

Approved interlocking single lap concrete tiles to match existing on battens on one layer of roofing felt 1F to BS 747 on trussed rafters @ 600mm crs approx. Rafters are to be supported on 100 x 65mm wallplates at base and held down by means of galvanised mild steel restraint straps type BAT M305 or similar, 30 x 5 mm and 100 x 650 mm twice fixed to top of wallplate using No. 12x50mm countersunk head woodscrews and plugged and screwed to blockwork. 30 x 5mm Galvanised steel restraint straps to be installed at gable wall and 75 x 38 mm sw noggins to be between the rafters at each strap. Spacing of straps to be 1800mm centres max. and straps to be installed at ceiling level and up the slope of the roof and carried across end 3 rafters. BS 5250 requirement for a ventilation gap equivalent to a 5mm slot for the length of the ridge to be provided. Continuous 10mm ventilators at eaves and ducting trays to rafters for airflow in roof. Roof bracing shall be installed horizontally and diagonally and in strict accordance with engineer's design and calculations. 15mm plasterboard and skim to u/s bottom chord. 150mm Knauf glass mineral wool between chords and 150mm Knauf glass mineral wool laid perpendicular over to achieve 1.5 W/m2k.

Valley base formed using 19mm timber supports cut between rafters and supported by 38 x 25 battens nailed to rafters. Top surface of board must be flush with top of trussed rafters Code No 4 lead to be laid and dressed in lengths not exceeding 1.5m on 4mm plywood sheathing Min 125mm width provided between vertical faces of valley. Roof bracing shall be installed horizontally and diagonally and in strict accordance with BS 5268: Part 2 1985 and manufacturer's instructions.

Rev.	Revision Note	Date
	Proposed alterations to 5 Well Ridge Park Whitley Bay NE25 9PQ	Scale 1:100 Date 12.11.23
	Title Proposed Elevations	Sheet No. 003