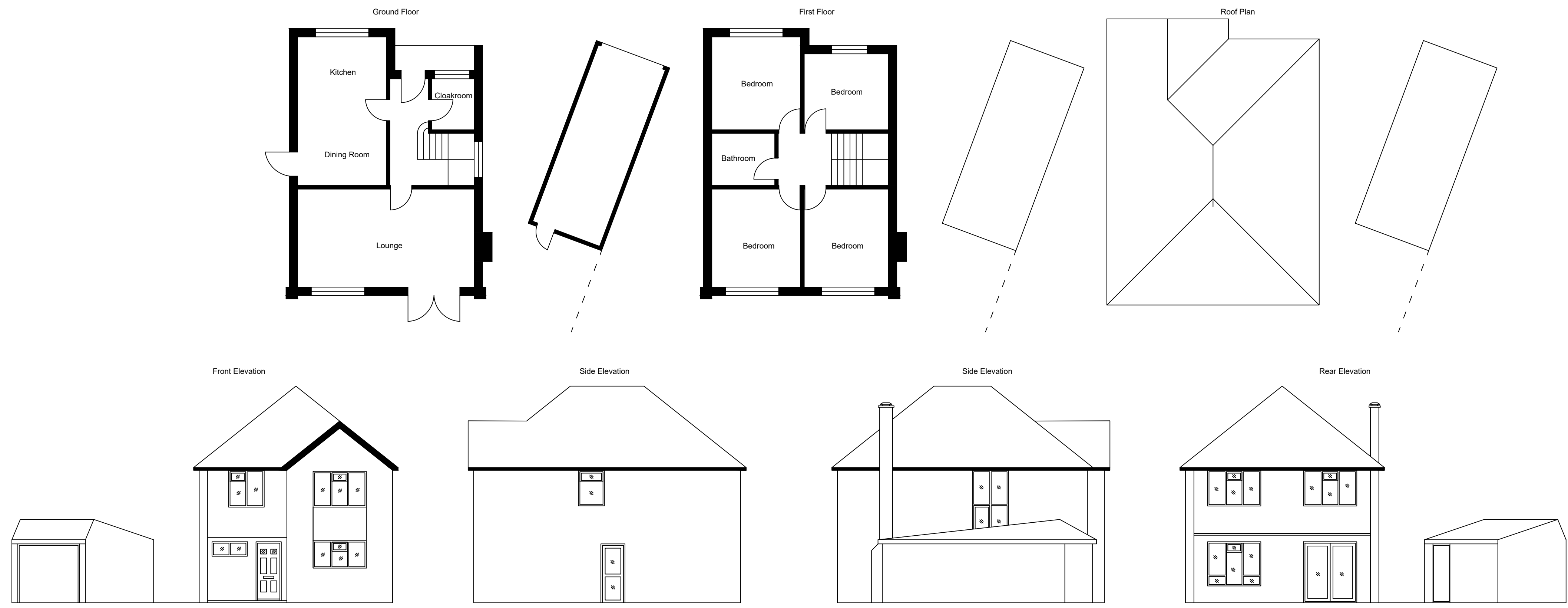
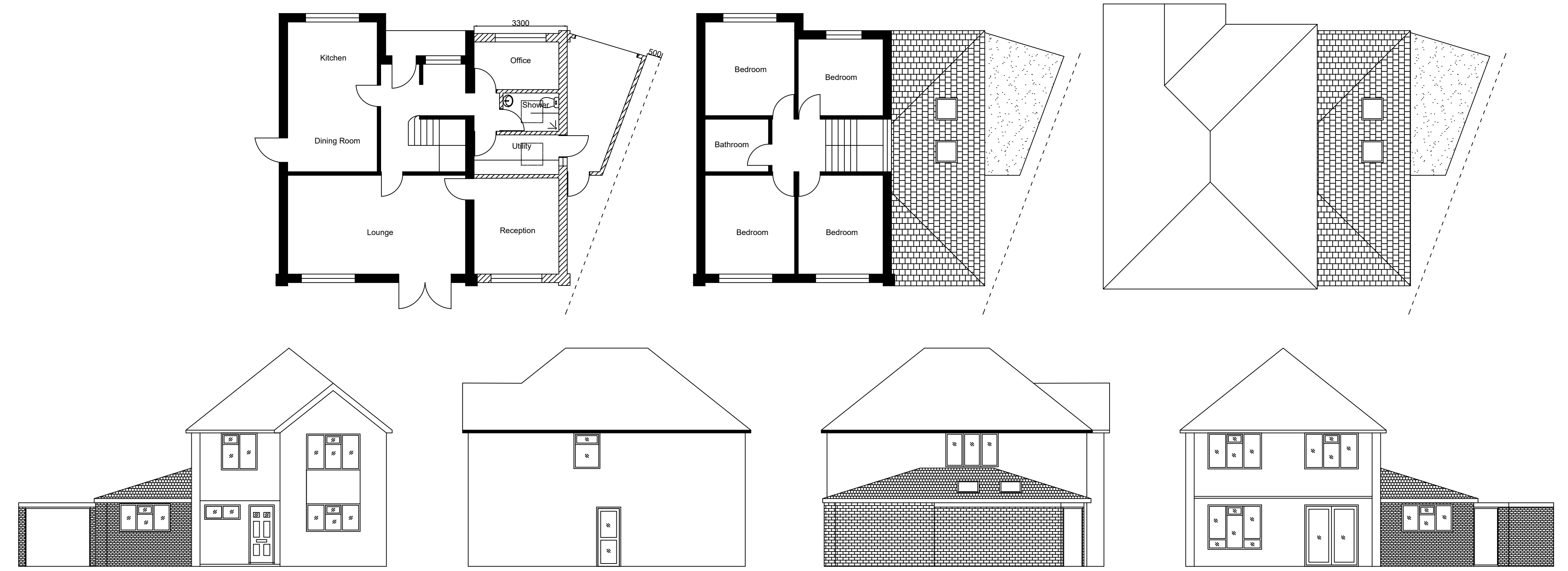


Existing



Proposed



**Agent-Quantum Architectural Designs (Building Engineers) Specifications.**

**Structure.** All structural elements to conform to BS5269. All structural timbers to be SC3/C24 grade (min) or equivalent and tannalised. Wall plate anchors and lateral restraints @ 1.5m. Walls bonded to existing using stainless steel furfix profiles. All structural steels to BS5950. Lintels and steels to have 150mm bearing. Stainless steel cavity wall ties @ 400mm. Insulated Cantic CG 90/100 over door/window openings. 150x100mm reinforced lintels over drains where they pass through walls. Minimum clearance of 300mm either side of underground pipework and foundation to be equal to or at greater depth. Hyalode DPC 150mm above ground.

**Fire Protection.** All new windows in rooms to have emergency egress through a minimum 500 x 600 fully opening sash, between 800 & 1100mm from the floor. All partitions, ceilings and steels to have 1/2hr fire protection. All pipe ducts to be encased in 12.5mm plasterboard, set & skimmed for 1/2hr fire protection. Recessed lighting to have 1/2hr fire cover in floor voids. Thermabate cavity closers. Mains linked smoke alarms in kitchens and lower/upper halls.

**Insulation.** External walls to achieve 0.28 W/m<sup>2</sup>K; party walls(existing) to achieve 0.55 W/m<sup>2</sup>K; roof voids 0.16 W/m<sup>2</sup>K; pitched roof elements 0.16 W/m<sup>2</sup>K; floors 0.22W/m<sup>2</sup>K. Internal stud wall/floors insulated with 100/150mm Rockwool for sound. External walls in 100mm celcon blocks or face bricks, 100mm full cavity fill capable Celotex, 100mm Super Solar Celcon block internal skins. Floors 100mm Celotex. Pitched roof 150mm Celotex if unvented (breathable felt) or 100mm between rafters and 50mm under rafters with 50mm air gap between celotex and felt. Roof voids 300mm Rockwool or Celotex equivalent.

Double glazed windows to have 20mm air gap(16mm min)& K reflective glass All glass to meet BS 6206 (safety and impact resistant in doors, & windows within 800mm of floor level). Internal floor voids and partitions to have 150mm sound insulation to meet part E. Windows to be no more than 25% of floor area (+redundant windows) with a minimum u value of 1.6W/m<sup>2</sup>K.

**Ventilation.** All windows to provide 1/20 vent and 1/10 light to habitable rooms. Trickle vents to be 4000mm<sup>2</sup> in bedrooms and 8000mm<sup>2</sup> in kitchen & living rooms achieved through windows Roof to be vented using Perma Forte breathable felt.

Internal wc's/bathrooms/utility rooms to have 30lit/sec extraction & 20min overrun. Kitchens to have 60lit/sec extraction or 45lit/s over cooker hood.

**Plumbing.** RWP to discharge into existing soak away(tested) or new 1m<sup>3</sup> honeycomb brickwork soak away with concrete slab lid, 5m from the building. Rodding eye at all changes of direction

**Heating.** Existing boiler retained or if replaced new boiler to be 96% efficient (condensing) and installed by a qualified operative (Corgi registered for gas) with instructions left for the owner.

**Electrical.** All work to conform to part P and current IEE regs (to BS7671), fitted by a qualified operative and certificated. All new light fittings to have energy efficient bulbs.

**Finishes.** To match existing finishes

**Scales.** 1: 100; 1:50; 1:1250; 1:500

Revision 00	
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Company	Address
Quantum Architectural Designs	19 West Way Carshalton Beeches Surrey SM5 4EJ
Client	Address
Mr & Mrs Casey	12 Aragon Avenue Epsom KT17 2QG

Job Title  
Demolition of existing garage to create single storey side extension

Drawing Title  
Plans of existing and proposed

Drawn by RFD/ CJD	Drw. No. 121121/RFD/CJD
Date 12/11/2021	
Scale 1:100	