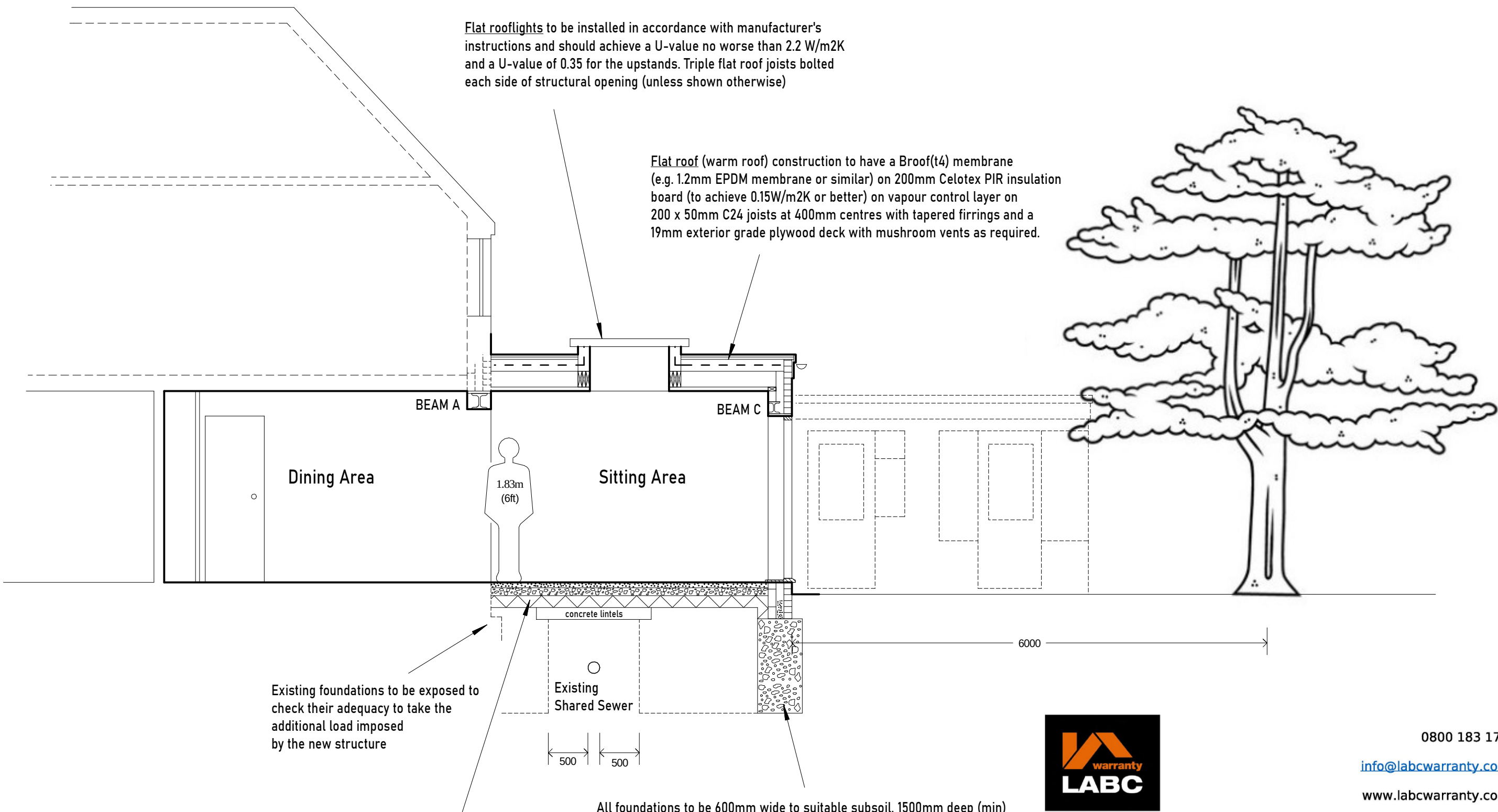




Solid floors to be 75mm screed layer on 500g polythene on 150mm Celotex PIR insulation board (turned-up at slab edges to prevent cold bridging) on 150mm concrete on 1200g damp proof membrane (contiguous with dpc's) on sand on 150mm hardcore to achieve 0.18W/m2K or better.

All foundations to be 600mm wide to suitable subsoil, 1500mm deep (min) if in medium shrinkage subsoil (due to proximity of tree), but at least to level of existing adjacent buildings and invert level of all drains passing within 1m of new works. Contractor to ensure all necessary temporary support, edge guarding and Personal Protective Equipment is provided to ensure the safety of all people at risk from this activity.

Depending upon subsoil conditions, the foundations may need to be in excess of 1m deep in accordance with NHBC practice note 4.2. Foundations may require additional structural design in accordance with recognised guidelines for building close to trees should shrinkable sub-soils be encountered. 150 x 100mm r.c. lintel to be provided to each wall skin at point of any pipe crossing.

Notwithstanding the representation on the drawings, the foundations are to meet the requirements of the Local Authority in all respects.



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Your foundation depth calculation:

Foundation depth for strip and mass-fill concrete foundations where trees are nearby. Please note heave protection is required to all foundations in excess of 1.5 metres deep in accordance with Technical Manual section 3 (Foundations).

Postcode area: RG – Reading

Volume change potential: Medium

Species of tree governing the depth: Beech

Tree	Group	Water Demand	Mature Height	Status	Height	Distance to Foundations
Beech	Broad leaf	Moderate	20	Remaining	20	6

All dimensions are in metres.

Required Foundation Depth (metres): 1.48

The warranty provider accepts no liability where foundation depths have been determined from third party information until this is verified by the Site Audit Surveyor.

Walls to be single brick to match existing, 100mm cavity with 90mm Thermaclass Cavity Wall 21 and 100mm 'Thermalite Shield' block providing a U-value of 0.18W/m2K or better.

3.6N blocks to be used for all walls up to two-storey high. For walls in excess of two-storeys, 7N blocks to be used at ground floor level.

Ties: 750 horizontal, 450 vertical, and double at all reveals. Reveals to have Thermabate Insulated Cavity Closers to prevent cold bridging and provide vertical dpc. All cavities to be clear 225mm below dpc level and closed at roof level. All brickwork to match existing.

1.2m galvanised steel straps to be provided at not greater than 2000mm centres, having a cross section of 30 x 5mm.

Contractor to ensure all scaffolding is securely attached when working at height. All Personal Protective Equipment to be provided to all people at risk from this activity to protect against falling objects.

All beams to have 100mm (min) end bearings on C30 concrete padstones, painted with 2 coats of red oxide and covered with 12.5mm GYPROC FIRELINE plasterboard to achieve 30 minutes fire resistance, using batten fixings where necessary. Contractor to provide all lifting equipment, temporary support and Personal Protective Equipment for all people impacted by the installation of heavy steel beams, particularly when working at height.

Lintels to be heaviest manufactured gauge (i.e. extra heavy duty) unless shown otherwise.

Bolted triple joists for trimmers, and under studding.

All structural timber to be C24.

Code 4 lead flashings to be used throughout.

Floor joists with spans in excess of 2.5m to have solid or herringbone strutting.

Cavity trays at all abutments.

Cavity infill to finish at least 225mm below the level of the lowest dpc.

DPC to be at least 2 brick courses above surrounding ground level

No development to overhang the boundary (incl. foundations).

All ceilings to be 12mm foil backed plasterboard.

Contractor to notify Building Control Department at all relevant stages of construction for inspection. This should include commencement, all interim stages and completion of works. Completion certificate to be obtained from Building Control at the end of the contract for handover to client.

New areas of construction are to be constructed with no significant thermal bridges or gaps in the insulation layer(s) e.g. at joints between floor joists & walls and around window and door openings (in accordance with "Limiting thermal bridging and air leakage: Robust construction details for dwellings and similar buildings 2002"). The contractor to provide a suitable report, if required, by the Local Authority, to confirm that the work has been carried out in accordance with these details.

All electrical works required to meet the requirements of Part P (Electrical Safety) must be designed, installed, inspected and tested by a person competent to do so. Prior to completion, the Council should be satisfied that Part P has been complied with. This may require an appropriate BS 7671 electrical installation certificate to be issued for the work by a person competent to do so.

Switches and sockets to be fitted between 450-1200mm above finished floor level.

Low energy lighting to be provided in compliance with Approved Document L1 with a minimum luminous efficacy of 75 light source lumens.

GAS SAFE registered person to carry out all work relating to repositioning of existing gas-fired boiler, and issue commissioning certificate. The boiler in its new position must have an efficiency no worse than when it was in its previous position.

All solid, gas and oil combustion devices will require a carbon monoxide detector to be positioned in the same room as the appliance, on the ceiling at least 300mm from any wall. If located on a wall, as high-up as possible (above any doors or windows) but not within 150mm from a ceiling and between 1-3m horizontally from the appliance.

New radiators to be fitted with thermostatic valves

	S BIDDLE Ltd Email: stephen@sbiddle.co.uk Mob: 07864 122 313 Web: www.sbiddle.co.uk		
Client	Mrs P. Stone		
Address	11 Wychelm Road, Shinfield, Reading RG2 9DJ		
Drwg No	STONE-0125-03	Scale: (A2)	1:50
Title	PROPOSED SECTION A-A		
	1m	2m	3m
			4m

Revision					