

Part R Physical infrastructure for high-speed electronic communications networks  
In-building physical infrastructure

R1  
(1) Building work must be carried out so as to ensure that the building is equipped with a high-speed-ready in-building physical infrastructure, up to a network termination point for high-speed electronic communications networks.

(2) Where the work concerns a building containing more than one dwelling, the work must be carried out so as to ensure that the building is equipped in addition with a common access point for high-speed electronic communications networks.

- Requirement R1 is to provide the in-building physical infrastructure so that, in future, copper or fibre-optic cables or wireless devices capable of delivering broadband speeds greater than 30 Mbps can be installed.  
NOTE: A standard copper telephone cable, when connected to a service provider's fibre network, can deliver broadband speeds up to 70 Mbps.

- The requirement is to provide only the in-building physical infrastructure, from the service provider's access point to the occupier's network termination point. Multi-dwelling buildings must be equipped with a common access point capable of serving all the dwellings within the building.

- It is not a requirement to provide any network cabling or equipment, or any in-building infrastructure that extends internally beyond the network termination point. Nor is it a requirement to provide any external or site-wide infrastructure beyond the access point. The developer and broadband service provider should agree who will install such external infrastructure.

- All works to comply with Building regs Approved Doc Part R

Electrical Installation consisting of :-

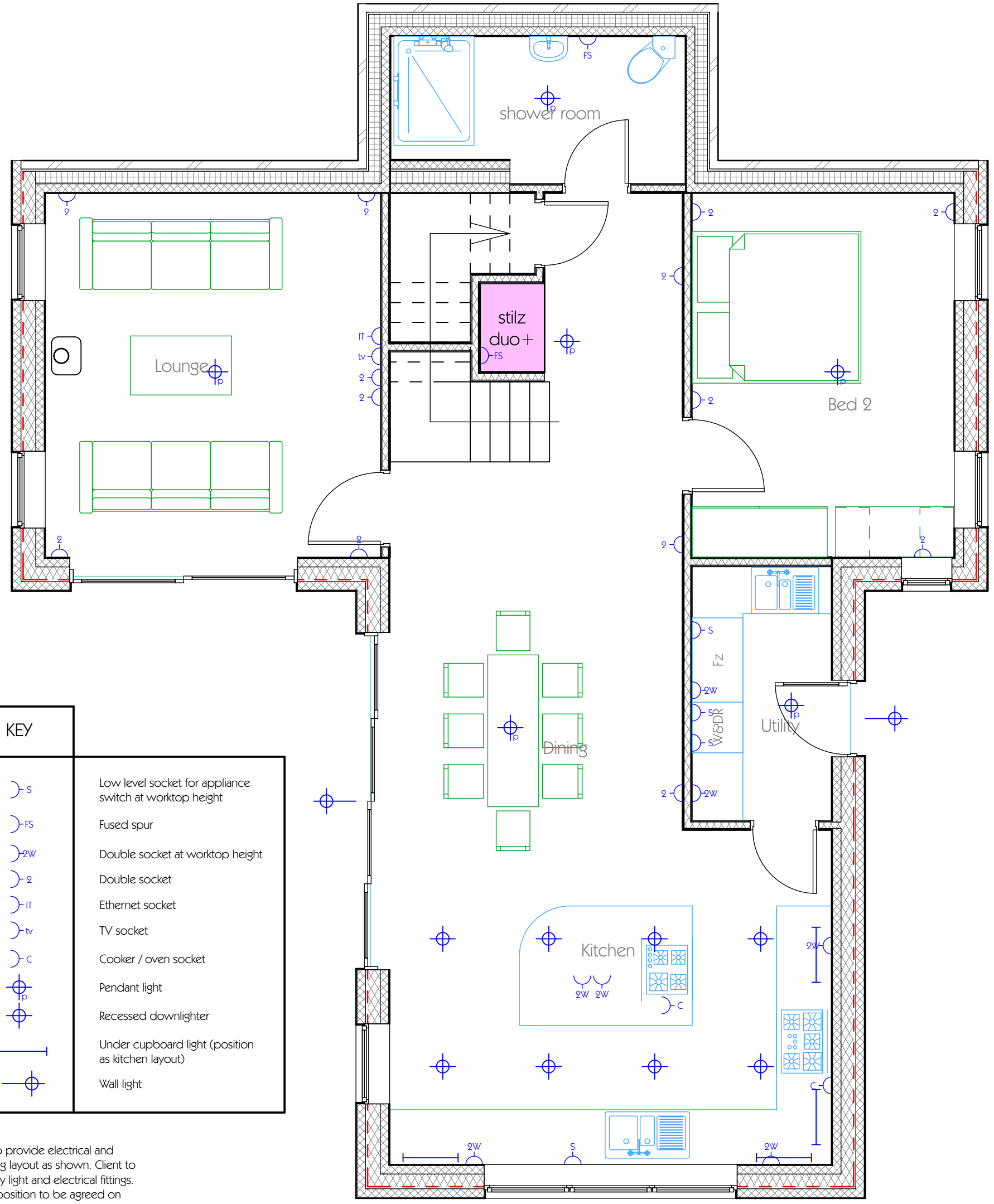
- All electrical installation to be carried out in accordance with latest I.E.E Regulations and Part P of the Building Regulations by a competent person and electrical test certificate issued on completion.

- All joints in cables to be made at junction boxes.  
- Minimum of 250mm clearance between any electrical wiring and hot pipework.

- MC to confirm requirements for encasement of cables where laid on rigid insulation board in accordance with manufacturers specification.  
- Where cables are to be run through joists. Holes to be in the vertical centre of timbers and are to be located within the first third of the span from the support.

- Minimum 75% proposed light fittings to be capable of taking energy efficient lamps.  
- Switch and sockets heights to be between 450mm - 1200mm above floor level all in accordance with Section 8, Part M of the Building Regulations.

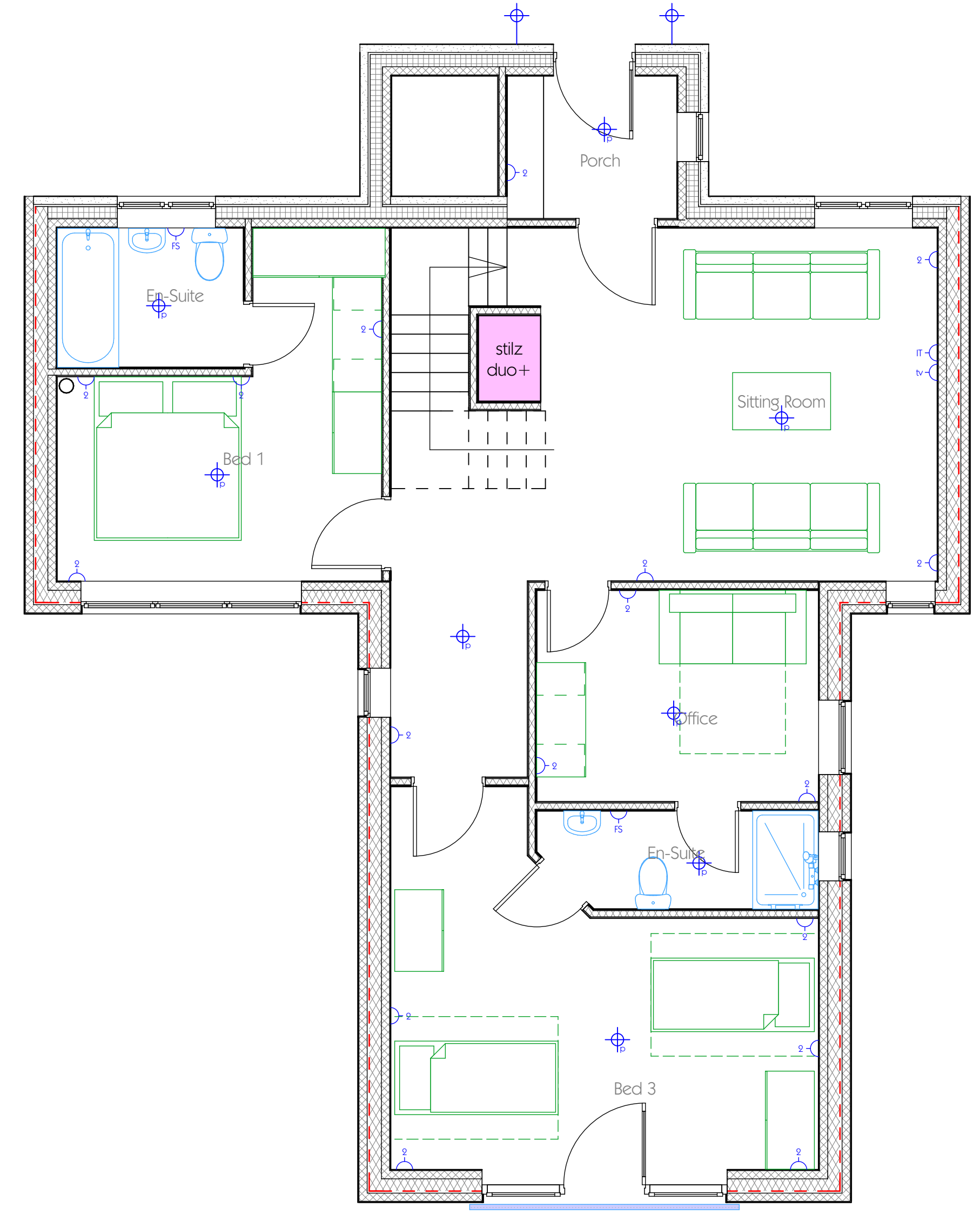
- In new dwellings mount the consumer unit so that the switches are between 1350mm and 1450mm above floor level.



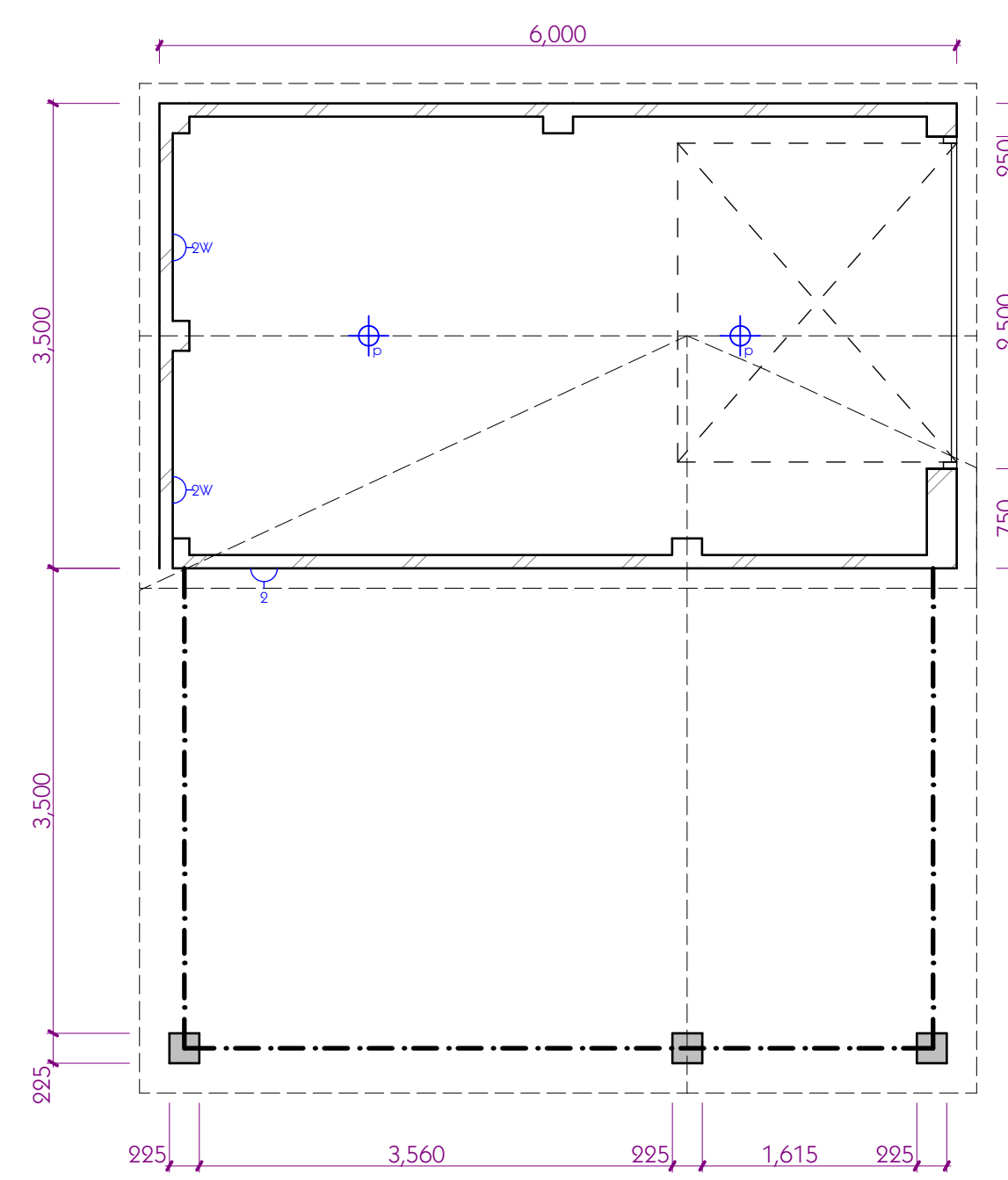
KEY	
	Low level socket for appliance switch at worktop height
	Fused spur
	Double socket at worktop height
	Double socket
	Ethernet socket
	TV socket
	Cooker / oven socket
	Pendant light
	Recessed downlighter
	Under cupboard light (position as kitchen layout)
	Wall light

MC to provide electrical and lighting layout as shown. Client to supply light and electrical fittings. Final position to be agreed on site.

Ground Floor - Proposed layout 1:50



First Floor - Proposed layout 1:50



MC to provide electrical and lighting layout to garage as shown including external socket. Client to supply light and electrical fittings. Final position to be agreed on site.

Proposed Garage and Car Port 1:50

rev	details	by	date
Project Vaughan Willow Bank Kniveton			
Drawing Name Proposed Layout - Services			
Drawn by cta		Date June 23	
Project No. 2019		Drawing Scale 1:50	
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