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Architectural drawing of a building facade. The drawing shows a cross-section of a building with a flat roof. The roof is labeled "Flat Roof". The building has a vertical section on the left and a horizontal section on the right. The vertical section has a height dimension of 2900. The horizontal section has a width dimension of 5175. The building is shown with a decorative finial on the right side. The drawing includes a north arrow pointing upwards.

BUILDING REGULATIONS: NOTES

1. **SERVICES:**
The existing systems to be extended as required, the size of all components being calculated by a CORGI registered plumber, and incorporating:

- Thermostatic valves on all radiators.
- A 7-day programmable timer, internal and external sensors to thermostatically control the individual operation of the separate heating and hot water systems.

Mechanical extract ventilation to be provided to all:

- Kitchens: capable of extracting at a minimum rate of 60 l/s.
- Utility Rooms: capable of extracting at a minimum rate of 30 l/s.
- Bathrooms and Wc's: capable of extracting at a minimum rate of 15 l/s.

All to be able to be operated intermittently and with 15 minutes overrun.

All electrical work is to be designed, installed, inspected and tested in accordance with BS 7671, an electrical installation certificate (complete with a schedule of inspections and a schedule of test results as required by part 7 f BS 7671) being provided at completion. The electrical installation is to incorporate:

- The Building Control officer is to be notified prior to any covering up of any electrical cables or fittings so that an inspection can be made while they are still visible. In addition the Building Control officer is to be informed of and given the opportunity to witness the BS 7671 inspection and testing of the fixed electrical installation work.

Efficient lighting is to be provided to at least 25% of all new light fittings or one per 25m² of floor area, whichever is greater. (Efficient lighting has an efficacy of greater than 40 lumens/circuit-Watt). External lighting will be less than 150W, and controlled so as to only come on when required and where there is not enough daylight.

1. **ACCESS, CIRCULATION & PROTECTION FROM FALLING:**
 - Guarding to be provided to all balconies which will:
 - withstand a horizontal UDL of 0.36kN/m and at a height of 1100 mm above the floor level.
 - ensure a 100 mm sphere cannot pass through any opening, and that children will not readily be able to climb it.
2. **STAIRS** to be at a maximum pitch and width of 42° and 1000mm respectively and with a minimum headroom of 2000mm provided above (measured vertically from the pitch line of the stair). The maximum rise and minimum going of each step is to be 200mm and 250mm respectively, the sum of twice the rise plus the going being between 550mm and 700mm.
50mm diameter handrails capable of withstanding a horizontal UDL of 0.36kN/m to be provided to:
 - one side of all stairs minimum, at a height of between 900 and 1000mm measured vertically above the pitch line of the stair.
 - all balconies and landings at a height of 1100 mm above finished floor level.

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|------------------------------------|----------------------|------------|------|
| NO. | DATE | REVISION | BY |
| CLIENT | | | |
| Cerith & Kimberley Davies | | | |
| PROJECT | | | |
| Proposed two-storey side extension | | | |
| DRAWING TITLE | | | |
| Proposed Cross Section B-B | | | |
| DRAWN/CHECKED | SCALE | DATE | |
| GWLT | 1:25 @ A1, 1:50 @ A3 | 27/07/2021 | |
| DRAWING NO. | | | REV. |
| P 08 | | | |

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Existing foundations to existing single storey extension to be examined by structural engineer prior to commencement to determine suitability for two storey extension. Existing reports do exist, which confirm their suitability.