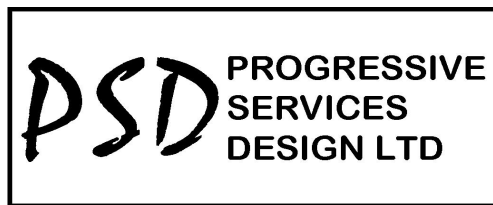


**RESIDENTIAL DEVELOPMENT  
ROSE PLACE  
LIVERPOOL**

**UTILITY STRATEGY**

**PREPARED BY:**



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## **Utility Strategy**

### **1.0 Water**

The development will be provided with 2 suitably sized incoming mains water supplies, 1 for each of the following areas:

- The commercial unit metered supply
- Apartment cold water storage tank metered supply

The residential apartment supply will enter the building via the plantroom and will feed a cold-water storage tank. The tank should be suitably sized to serve all apartments in accordance with BS EN 806. The tanked water will be taken to a packaged booster set which will provide a boosted cold water supply to all the apartments. Within each apartment a United Utilities meter will be installed, all meters and pipework will be installed in accordance with Water Regulations, BS EN 806 and United Utilities requirements.

Commercial units are to be provided with individual water supplies direct from the external United Utilities main. Meters will be installed within the commercial area or at the boundary in accordance with United Utilities requirements.

### **2.0 Electrical**

A HV point of connection will be provided by Scottish Power who will bring in a new HV main into a substation within the development. The substation will either be a network substation or dedicated to this project, this decision will be made by Scottish Power on the application.

We estimate a single substation will be required to supply the development however this is to be confirmed by Scottish Power specialist during the detailed design stage.

LV cables will connect from the transformers to LV switchboards and from this position the electrical network will be adapted by the building network operator where all design, procurement and installation (excluding meters) will be appointed by the M&E contractor.

LV cables will then be distributed to the vertical risers through each block and meters will be installed within these cupboards on each floor serving each individual apartment.

Separately metered supplies will also be installed from the LV switch room to serve the following areas with meters being located in areas accessible to the tenants:

- Landlord's supply for communal areas
- Commercial unit

The electrical installation will comply with BS7671 and the main supply isolator in the LV switch room shall be able to be sealed by the BNO as it forms part of the BNO network in compliance with the ENA Engineering Recommendation G87.

### **3.0 Gas**

The development is to be provided with a single gas connection suitably sized to serve the apartments as well as the commercial unit if required.

The Gas supply will enter the building above ground via the plantroom. The incoming gas supply is to be metered internally in accordance with National Grid and relevant gas shipper requirements.