

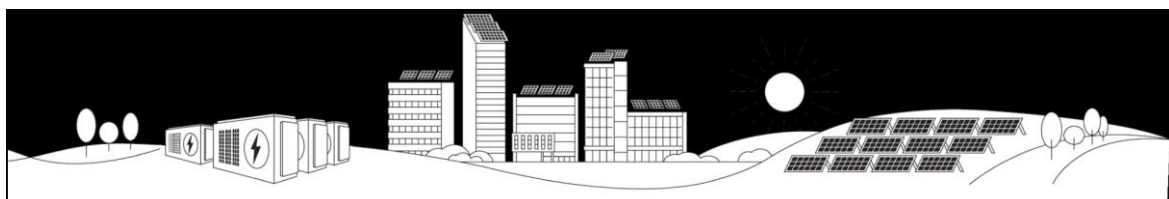


VITAL ENERGI UTILITIES LIMITED

Supplementary CCTV, Poles, Feeder Pillar and Sub Station Information Chamber House - Rochdale

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1 Introduction

This document gives supplementary information associated with CCTV, Poles, Feeder Pillar and Sub Station Information Chamber House, Chamber House, Rochdale Road East, Heywood, Rochdale, OL10 1RL

2 CCTV and Poles

The CCTV system will utilise 6 cameras with motion activated monitoring. The Cameras will be positioned at intervals around the perimeter of the site on 4m tall galvanised steel posts. Positions are highlighted on drawing 50716-VE-SW-XX-DR-A-XX01.

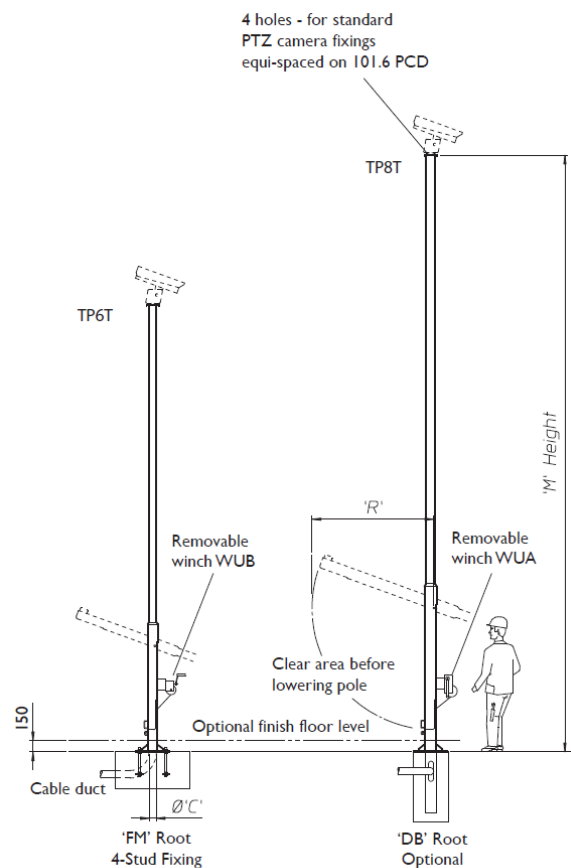


Figure 1 - CCTV Pole Detail



Figure 2 - Example CCTV Pole

3 Feeder Pillar

A Feeder Pillar collects multiple low voltage power cables from the below ground ducts into a GRP enclosure. A Ring Main Unit (RMU) then converts Low Voltage Power into High Voltage Power. High Voltage cables then distribute below ground from the RMU to the Vital Energi sub station.

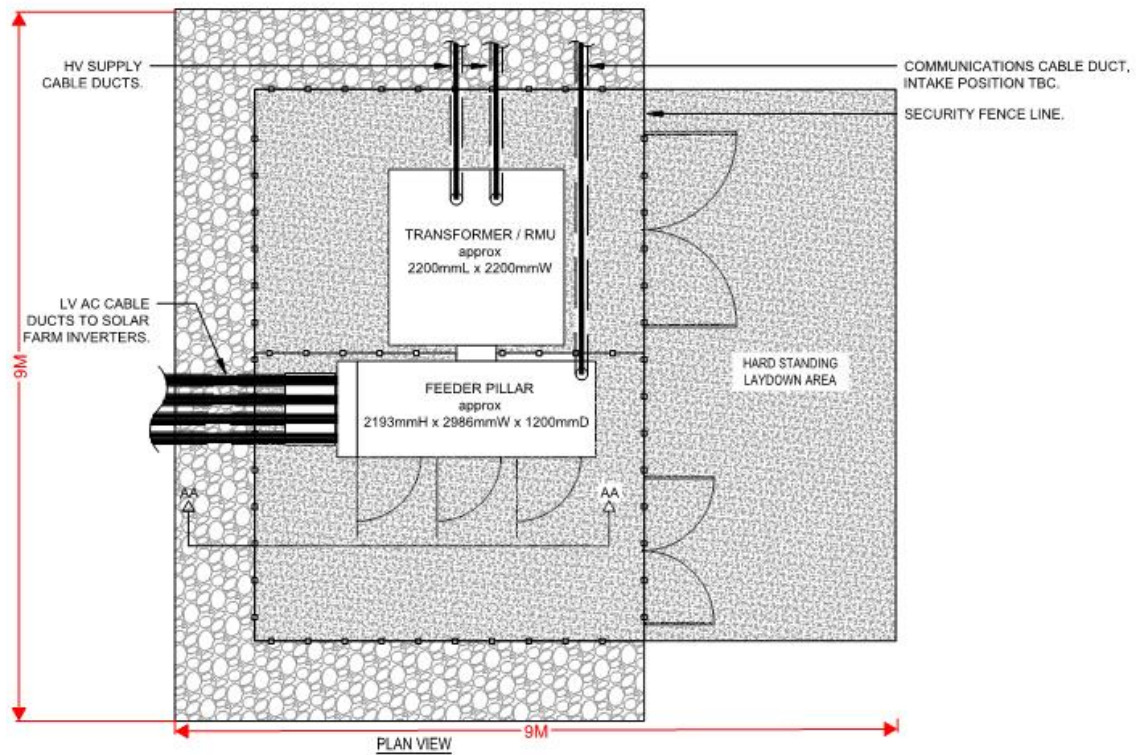


Figure 3 - Typical Feeder Pillar Installation

Each Feeder Pillar is located on concrete hard standing – a 9 meter square concrete plinth. The feeder pillar consists of a GRP enclosure finished to Moss Green RAL 6005 and typically 2400mm(h) x 3000mm (w) x 1200mm(d).

The RMU Is an industrial piece of equipment, Typically 3000mm(h) x 2200mm(w) x 2200mm(d) finished in Grey.

The installation is protected by a 2m high V mesh security fence – finished in green.



Figure 4 - Example Feeder Pillar Installation

4 Vital Energi Sub Station

The Vital Energi Sub Station collects the HV cables from below ground ducts into the external HV switch panel. The HV switch panel is connected via below ground ducts to the Transformer, which modifies the condition of the electricity to enable export to the DNO substation.

A GRP enclosure is positioned at the sub-station which contains control equipment and support ancillaries, which enables the solar farm to function.

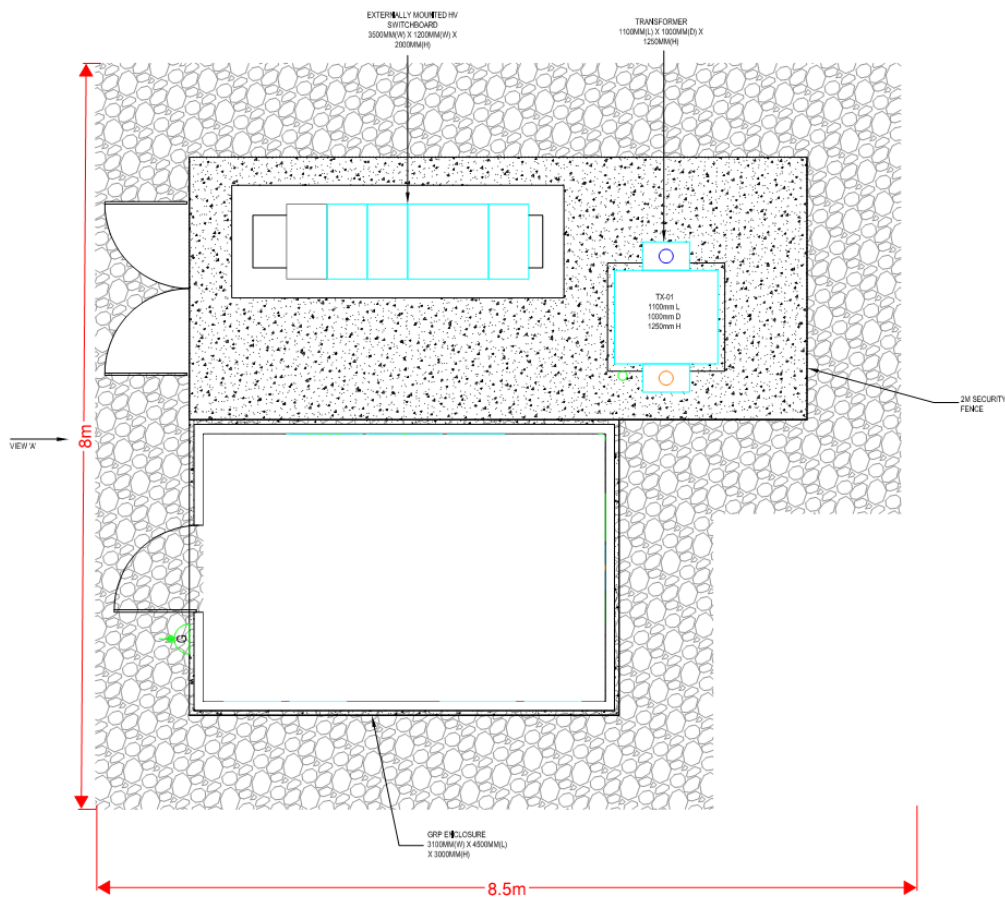


Figure 5 - Typical VE Substation

The substation is located on concrete hard standing – a 8m x 8.5m meter concrete plinth. The GRP enclosure finished to Moss Green RAL 6005 and typically 3000mm(h) x 4500mm(l) x 3100mm (w) in size.

The Switchboard and Transformer are industrial pieces of equipment, Typically 2000mm(h) x 2000mm(l) 1200mm (d) and 1250mm(h) x 1100mm(l) 1000mm(d) respectively. Both finished in Grey.

The Switchboard and transformer is protected by a 2m high V mesh security fence – finished in green.



Figure 6 – Example External Switchboard



Figure 7 – Example GRP Enclosure

5 Electricity North West (ENW) Sub Station

The ENW Substation takes the HV cabling from the below ground ducts, meters, provides protection and transfers this to the national grid via below ground ducts. ENW are a Statutory Authority and will determine the ultimate design of the substation. Below is the typical example based upon experience of similar schemes and early engagement with ENW.

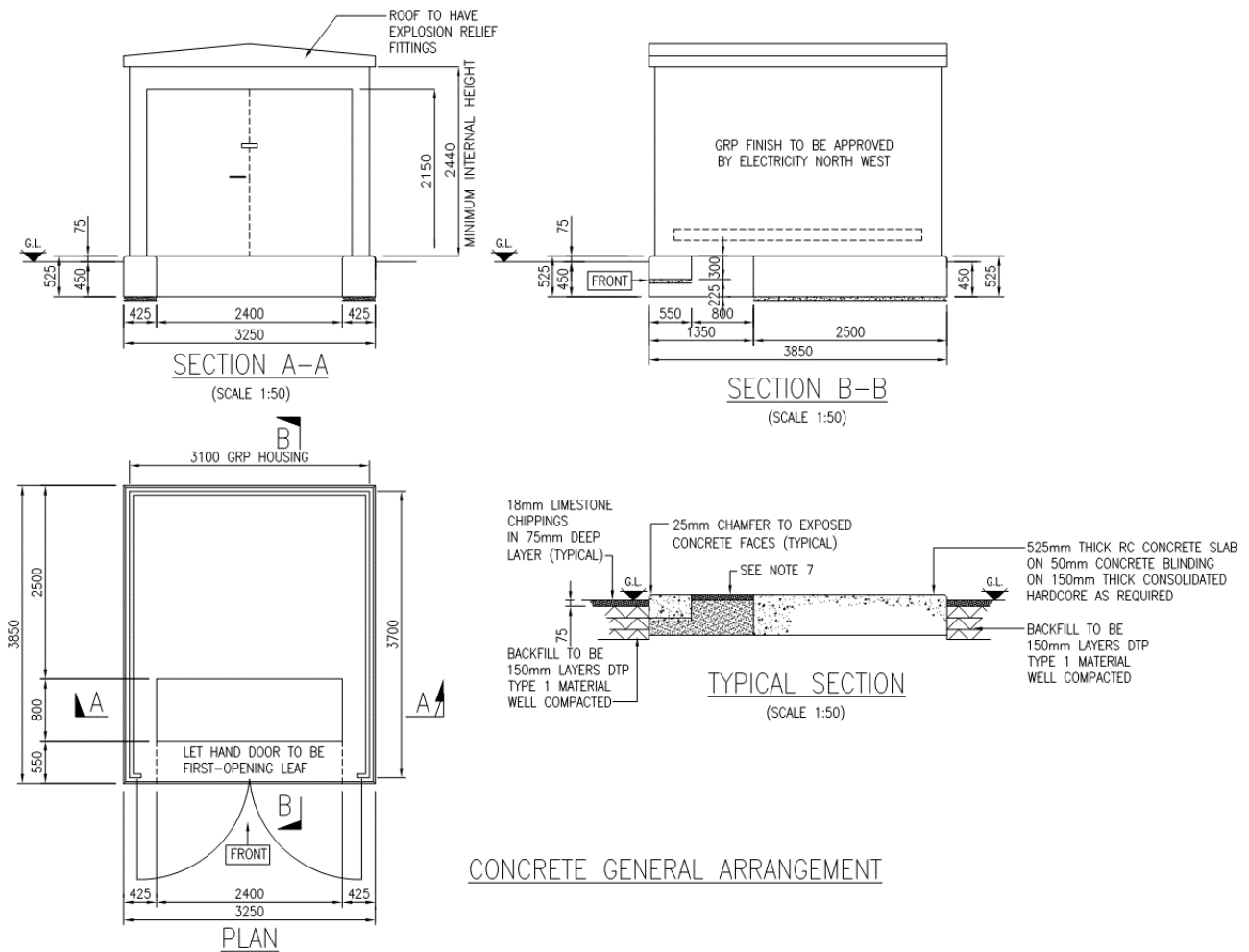


Figure 8 - Typical ENW Substation

The ENW substation will visually look like Figure 7 – Example GRP Enclosure. The GRP enclosure will be finished to Moss Green RAL 6005 and typically 3000mm(h) x 3700mm(l) x 3250mm (w) in size.