

## CURL CURL PUBLIC SCHOOL

### EXISTING ELECTRICAL SERVICES

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#### 1 SUPPLY

##### 1.1 Existing Supply

The School is served by means of a 200amp rated aerial service from the Ausgrid network on Playford Road. The supply is currently at full capacity and the School has experienced supply interruptions due to overloading.

The maximum demand indicators on the Main Switchboard indicate that the load has reached 249 amps per phase.

##### 1.2 New Supply

As part of the redevelopment it is planned to install a new 400 amp rated supply to the School. An application has been made to Ausgrid to upgrade the supply. However, advice has not yet been received from Ausgrid regarding the method by which this supply would be made available.

#### 2 MAIN SWITCHBOARD

The Main Switchboard is of the sheetmetal cubicle type incorporating Schneider Electric moulded case circuit breakers for the control of outgoing submains. The switchboard is installed in Block G which is planned for demolition.

#### 3 DISTRIBUTION BOARDS

The distribution boards in the Library and Block M are of the totally enclosed sheetmetal cubicle type incorporating miniature circuit breakers for the control of the outgoing subcircuits. The boards are in fair condition and suitable for use in the new installation.

#### 4 DATA CABLING

The Campus Distributor is located in the south western corner of the Library Building. The Distributor is served by means of a fibre optic data service from Playford Road.

Underground fibre optic data backbone cabling is installed to Building Distributors as follows:

|                        |   |                                                          |
|------------------------|---|----------------------------------------------------------|
| Building Distributor 1 | - | 6-core multi-mode fibre cable                            |
| Building Distributor 2 | - | 6-core multi-mode fibre cable                            |
| Building Distributor 3 | - | 6-core multi-mode fibre cable                            |
| Building Distributor 4 | - | 6-core multi-mode fibre cable                            |
| Building Distributor 5 | - | 12-core multi-mode fibre cable + 10-pair telephone cable |
| Building Distributor 6 | - | 12-core multi-mode fibre cable + 10-pair telephone cable |

#### 5 PUBLIC ADDRESS SYSTEM

The School is equipped with a public address system with the amplifier installed in the Administration Office in Block G. Speakers are generally installed on the exterior of the respective buildings.

#### 6 SOLAR POWER GENERATION SYSTEM

A solar power generation system with a capacity of 6kW is installed on the roof of Block M.