CAMDEN SCHOOLS

Design Note 003 – Utility Connections

PARLIAMENT HILL SCHOOL

Gas

Quotation: Fulcrum 5054268/PQ102837

A new gas connection will be installed from the 380Ø CI gas main in Highgate Road and serve the new central gas fired boilers and combined heat power (CHP) unit within the main plantroom in the Morant building and serve the gas appliances in the Ribbon building specialist teaching spaces. A new meter will be installed at the boundary in a dedicated enclosure with allowance for high and low level natural ventilation openings to atmosphere. The existing gas connection to the current drama extension boiler plant will be retained to serve the gas appliances in the new Dining Block kitchen.

Water

Retain existing connection to the Morant Building, however new cold water storage tank and cold water booster set are to be provided to serve the existing and new Parliament Hill School buildings.

Electricity

Quotation: UKPN 8500015987/QID 3500009318 (Revised 14th October 2015)

From an initial electrical load assessment, the refurbished and extended Parliament Hill School Building will require a new single three phase supply with a capacity of 480 KVA.

The existing 2No. 400A TP&N services will be required to be disconnected, to accmodate the new build wroks. A new electrical 800A TP&N cut-out will be coordinated and installed. A new main switchboard will be provided to serve the entire building and extensions.

WILLIAM ELLIS SCHOOL

Gas

Retain existing.

Water

Retain existing.

Electricity

Quotation: UKPN 8500015987/QID 3500009318 (Revised 14th October 2015)

The above quotation reflects the existing 400A TP&N service that serves the William Ellis School (WES), to have an upgraded declated capacity at 250kVA. However, following recent disucssions with the school caretaker, WES have advised that the existing cut-out fuses have been be replaced by UKPN due to potential overloading. In addition, it is now understood that the new food technology room will accmodate electric cookers, which increases the overall assessed maximum demand.

Therefore it is proposed that a new 630A TP&N supply and meter is provided local to the existing onsite substation, to UKPN's requirements. New submains will be provided from this location to the existing WES switchroom, complete with new main switchboard. The existing new supplies will be derived from the new switchboard. The phasing of this will be required to be coordinated.

LA SWAP

Gas

Quotation: Fulcrum 5033015/PQ064141

A new gas connection will be installed from the 380Ø CI gas main in Highgate Road and serve the two number wall hung boilers within the main plantroom. The gas meter (U6) will be located within the plantroom with allowance for high and low level natural ventilation openings to atmosphere.

Water

Quotation: Thames Water 50024384

There is an existing 125Ø PE water main adjacent to the development running under Highgate Road. The new 32mmØ metered water connection is proposed to serve the new building entering the plantroom from below ground floor level and fed from the existing water main in Highgate Road. A new water authority meter shall be installed at site boundary to serve the building

A pulsed output controls signal will be taken from the Water Authorities meter back to the Building Management System, to allow for leak detection.

Electricity

Quotation: UKPN 8500015987/QID 3500009318 (Revised 14th October 2015)

From an initial electrical load assessment, the new LaSWAP building will require new single three phase supply with a capacity of 80 KVA

A new 200A TP&N cut-out and meter will be installed at the LASWAP electrical cupboard. This will supply a new MCCB panel board to serve the building.

This design note should read with reference to drawing 2601078-HL-XX-00-SP-U-900-0001 – External Works Siteplan Infrastructure Layout.