Shuttleworth Agricultural College

Basin
7843
Pond
·113ha
·28

Shuttleworth
College

Business Centre

Gardeners Cottage

Russell Hall

Pump House

Pond

Pond

Bath Pond

Bath Or

0337
·129ha
·32

Pp
Pump

SWITCH GEAR CHANGED 17/12/2008. NO DETAILS OF JOINTING OR RE-CONNECTION

TLEWORTH COLLEGE

Posts

Cattle Grid

Sports
Area

AGRONOMY CENTRE

FOR SS ENLARGEMENT
COLLEGE HEAT PUMPS

Animal Centre

Science and Resources Centre

8626
·198ha
·49

THE CUSTOMER WILL BE RESPONSIBLE FOR INSTALLING A 50mm MINIMUM DIAMETER ELECTRICITY DUCT BETWEEN THE METER POSITION AND THE SUBSTATION TO ACCOMMODATE THE METERING PILOT CABLE. THE MAXIMUM PILOT CABLE LENGTH BETWEEN THE CTs IN THE SUBSTATION AND THE METER IS 20 METRES THE CUSTOMER WILL BE RESPONSIBLE FOR INSTALLING SUITABLY SIZED ELECTRICITY DUCTS BETWEEN THE SERVICE POSITION AND THE SUBSTATION TO ACCOMMODATE THE CUSTOMERS CABLES. THE CABLES BETWEEN THE SERVICE POSITION AND THE SUBSTATION ARE TO BE SIZED AND INSTALLED BY THE CUSTOMERS ELECTRICAL CONTRACTOR, ENOUGH CABLE MUST BE LEFT AT THE SUBSTATION TO ALLOW THE TERMINATION TO BE MADE BY UK POWER NETWORKS. THE CUSTOMERS ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE SUPPLY OF ALL TERMINATION KITS/LUGS FOR ALL LOW VOLTAGE SERVICE CABLE ENDS AND FOR THE TERMINATION OF THE SERVICE CABLE/S INTO THE CUSTOMERS NEW MAIN SWITCHGEAR.

Proposed New Substation Location Subject to a Legal Consent.

UKPN TO
INSTALL A NEW GRP PACKAGE SUBSTATION CONSISTING OF A 800KVA TX/RMU/ 5 WAY LV CABINET CONSISTING OF A 1600A ACB AND 1 LV WAY. NO CABLES TO BE CONNECTED TO THE LV WAY.(DUE TO HARMONICS)

109088966

6300

185Sq SERVICE

UKPN TO
Lay 2 x 300mm Triplex 11KV cables in 150mm diameter Black Twin walled ducting installed by the customer, ducting should be laid at a depth to allow for 750mm of cover.

Customer to install 4 x 150mm diameter Black Twin walled ducting (with pullcord) from the site boundary to the proposed New substation location.To be installed at a depth to allow for 750mm of cover. Ducting must be to standard ENATS 12-24.

Point Of Customers Excavations

UK Power Networks to carry out off-site excavations and reinstatement works.

6400
6400
800
2000
95AL 70PA CR JT
3500

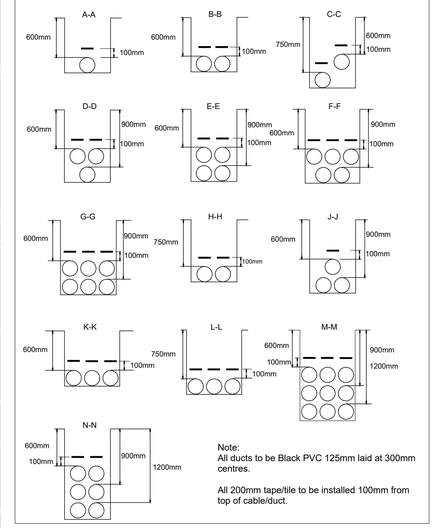
Points of Connection to the network
UKPN TO
11KV - Straight joint two 300ax 11KV cables onto the existing 95AL 11KV cable, circuit is "HV2 Shuttleworth College - Kings Hill Farm ABSD with teeds".

BEWARE HV CABLE IN AREA OF WORKS

Underground cables exist on the site. It is important that all works should comply with the requirements of the Health and Safety Executive Document HS(G)47- Avoiding danger from underground services.

Additional Notes
1. Customer to provide UK Power Networks with all relevant HSE information,
2. A legal consent will be required from the landowner for the new substation site and the associated cables.
3. Customer is responsible for all on-site excavations, installation of ducts and reinstatement works.
4. The customer is responsible for the excavation of the substation base and the substation earthing to UK Power Networks Specifications.
5. Pull pits will be required for the cable installation, the location and sizes of pull pits to be agreed on site with the UK Power Networks Field Engineer.
6. The access to the substation must be a minimum of 3.5 metre width and be built to withstand a vehicle weight of 32 tonnes.
7. .A meeting will be required with the road owner/highways officer to discuss and agree the pedestrian/ traffic management requirements.
8. Weatherproof enclosure required for the metering to be within 20 metres of the substation
9. Customer to provide a safe designated work site for UK Power Networks staff and contractors with safe access and egress
10. Customer to provide UK Power Networks staff 24 hours access to the substation.
11. ADDITIONAL EARTHING IS REQUIRED, CUSTOMER TO LEAVE THE TRENCH OPEN TO ALLOW FOR THE INSTALLATION OF THE ADDITIONAL EARTHING

STANDARD CROSS SECTIONS FOR ROAD CROSSINGS



Note:
All ducts to be Black PVC 125mm laid at 300mm centres.

All 200mm tape/tile to be installed 100mm from top of cable/duct.

Legend

	Existing (Old)	Existing (New)	Proposed
Service U/G			
Low Voltage U/G			
HV (11Kv) U/G			
EHV (33Kv) U/G			
EHV (132Kv) U/G			
LV Overhead			
HV Overhead			
EHV (33Kv) O/H			
EHV (132Kv) O/H			

Maps produced at 1:2500 scale are LV Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign,
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.

Before digging within one metre of these cable routes
Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.

N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS

ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

1) Do have cable drawings with you on site and check them before you start the excavation.
2) Do have a cable locator tool on site and use it to help you.
3) Mark out the location of electricity cables.
4) Do not use a mechanical excavator within 0.5m of electricity cables.
5) Use spades and shovels in preference to other tools.
6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT - ASK! PHONE 0800 056 5866
EMERGENCY - If you damage a cable or line
Phone 0800 780 0780 (24hrs) URGENTLY

These basic safety precautions are explained in detail in the HSE booklet.
HS(G)47 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

N
W E
S

UK Power Networks

Proposals For : 8500277253 Proposed CAF Plan
Shuttleworth College, Old Warden park, Biggleswade sg18 9dx

Plotted By: Gabriel McCullogh
Scale 1:500 (When plotted at A1)

Plotted On: 10/11/2023
Map Centre : TL1444SE

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