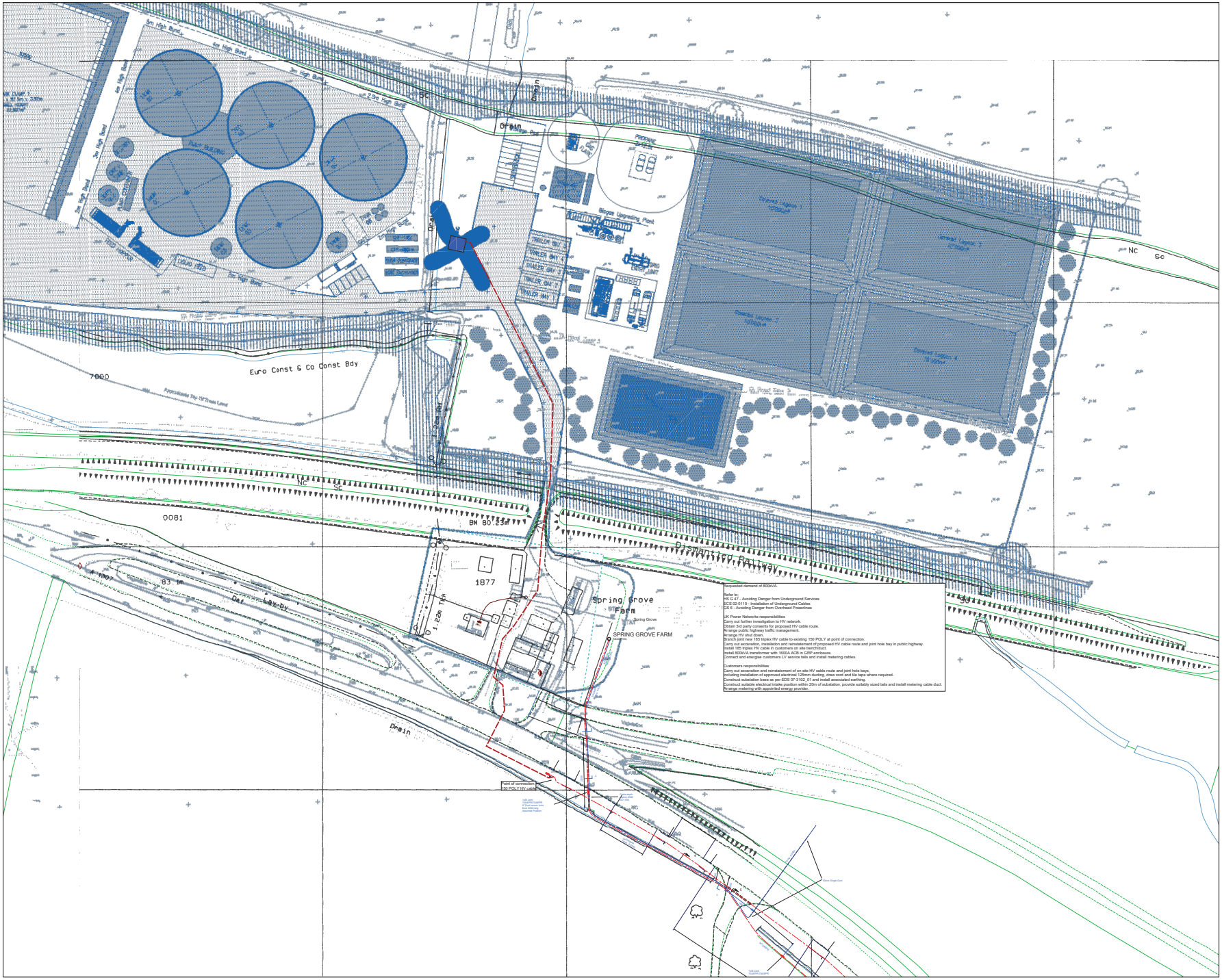


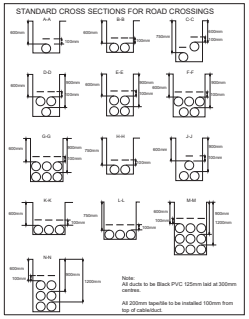
Requested demand of 800kVA.

Refer to:
HS G 47 - Avoiding Danger from Underground Services
ECS 02-0119 - Installation of Underground Cables
GS 6 - Avoiding Danger from Overhead Powerlines

UK Power Networks responsibilities
Carry out further investigation to HV network.
Obtain 3rd party consents for proposed HV cable route.
Arrange public highway traffic management.
Arrange HV shut down.
Branch joint new 185 triplex HV cable to existing 150 POLY at point of connection.
Carry out excavation, installation and reinstatement of proposed HV cable route and joint hole bay in public highway.
Install 185 triplex HV cable in customers on site trench/duct.
Install 800kVA transformer with 1600A ACB in GRP enclosure.
Connect and energise customers LV service tails and install metering cables.

Customers responsibilities
Carry out excavation and reinstatement of on site HV cable route and joint hole bays,
including installation of approved electrical 125mm ducting, draw cord and tile tape where required.
Construct substation base as per EDS 07-3102_01 and install associated earthing.
Construct suitable electrical intake position within 20m of substation, provide suitably sized tails and install metering cable duct.
Arrange metering with appointed energy provider.

STANDARD CROSS SECTIONS FOR ROAD CROSSINGS



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.

SAFETY

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 presence of cables has been proved by hand digging.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
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 COMPANY.

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.

UK Power Networks

Proposals For :	8500233647
	Thurlow Estate CB9 7SW
Plotted By: Luke Drake	Scale 1:500 (When plotted at A0)
Plotted On: 11/10/2022	Map Centre : TL6446NW

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