



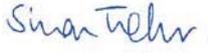
WEST CAMBRIDGE

OUTLINE PLANNING APPLICATION

UTILITIES STATEMENT

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Revision	Date	Description	Prepared	Reviewed	Approved

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1 Introduction

1.1 Background

- 1.1.1 This utilities assessment has been prepared by Peter Brett Associates on behalf of the University of Cambridge to support the outline planning application for development at West Cambridge.
- 1.1.2 The total West Cambridge site area is approximately 64.9ha and is bordered to the north by Madingley Road, the M11 to the west, Clerk Maxwell Road to the east and Coton Brook footpath to the south. Refer to Appendix A showing a location plan of the site.
- 1.1.3 The outline planning application seeks permission for up to 383,300sqm (GEA) of floor space, the majority of which would comprise academic research (Class D1) and/or commercial research (B1(b)) floor space. Together with retained floor space, the total amount of development on site on completion of the redevelopment would be approximately 500,000sqm. The development will be completed in phases over a 15-20 year period.

1.2 Purpose of Assessment

- 1.2.1 The purpose of this assessment is to provide an overview of the existing utilities infrastructure at West Cambridge and to explain how utilities will be provided to serve the proposed development.
- 1.2.2 This assessment summaries the potential onsite connection works associated with delivering each utility, the potential diversionary works which may need to be made and identifies requirements for off-site reinforcement.
- 1.2.3 Refer to Appendix A showing a site location plan of the West Cambridge (WC) site.

2 Methodology

2.1.1 This report will seek to provide three pieces of information for each utility;

- Existing utility infrastructure already in place at West Cambridge
- Proposed extent of works required to existing utility infrastructure to obtain connection including potential offsite reinforcement measures.
- Proposed extent of diversionary works required to existing utility infrastructure to deliver the proposed development

2.2 Existing Utility Infrastructure

2.2.1 Existing utility locations and sizes have been identified from existing utility asset plans which were obtained from the relevant utility statutory undertakers. Further to this, as-built records by J Breheny Contractors have been used. These records span over a time frame of approximately 10 years. Within this timeframe, 4 phases of historical construction works have been undertaken.

2.2.2 In order to verify these previous records and plans, more recently, a full utilities Ground Penetration Radar (GPR) survey trace has been undertaken. Refer to Appendix B.

2.3 Proposed supply works

2.3.1 In order to confirm whether adequate capacity exists within statutory undertaker assets, PBA have consulted with the various utility providers to determine whether available service capacities exist within their existing networks to deliver the additional demand generated by the proposed development. Where existing network capacity is deemed insufficient to meet this proposed demand, PBA have asked the relevant utility providers to provide an indication as to the likely improvement and reinforcement works required to their networks to ensure the proposed demand of the development can be accommodated.

2.3.2 A summary of demand for each utility service as well as the relevant statutory undertaker in control of the utility is provided in Table 1.

Table 1 Summary of Utility Demand

Utility	Utility Provider	Demand Description	Demand
Electricity	UK Power Networks (UKPN)	Peak Demand MW	18.92
Gas	National Grid (NGG)	Peak Hourly Demand kWh	16881
		Annual Demand MWh	38405
Potable Water	Cambridge Water (CW)	Demand m ³ /day	931.06
		Daily Peak Demand litres/sec	75

- 2.3.3 The demand for each utility identified within Table 1, has been derived from the following information;
- Estimated energy demand calculations (electricity, gas, and potable water) were based on the 'West Cambridge Capacity Test, Working Draft, 19th September 2014' drawing, which indicated 29 points of connection (PoC).
 - The extent of development proposed has been based on the West Cambridge proposed densification of development.
- 2.3.4 At the time of sending out initial capacity enquiries to the relevant utility statutory undertakers the information contained within Table 1 was up to date. Due to the time frames involved in sending out and then receiving information from utility providers all extents of works outlined within this report will require verification from utility statutory undertakers to support reserved matters submissions.

2.4 Extent of Diversionary Works

- 2.4.1 In practice, it is likely that a significant proportion of the existing utility infrastructure will be unaffected by delivery of the masterplan layout and thus can remain or be used to aid delivery of new utility networks. The Parameter and Design Guidelines submitted for approval seek to ensure that existing utility infrastructure can be retained to serve the proposed development wherever possible. This is considered to be a more sustainable approach than seeking to replace existing utilities, some of which have only recently been installed.

3 Existing Utilities

3.1 Electricity

Existing Assets On-Site

- 3.1.1 Refer to Appendix B showing GPR utility trace
- 3.1.2 There are HV cables within JJ Thomson Avenue, Charles Babbage Road Access Road A.
- 3.1.3 There is a HV connection from both the HV cable in Madingley Road and JJ Thomson Avenue crossing through building A02 and continues to the east and south looping back to the JJ Thomson Avenue main. There are two main spurs to the south from this loop. There is another spur to the east to building A03 and A09. There is a spur to the west to building A15.
- 3.1.4 From the HV cable within Charles Babbage Road there is a spur to the south to the residences at building A13.
- 3.1.5 There is a HV cable from the primary substation to the south of Madingley Road, which loops round buildings B10, B03 and the Vet School to join the HV cable in Charles Babbage Road.
- 3.1.6 There are two HV cables in Access Road A to both the east and west from Madingley Road to join the HV cable in Charles Babbage Road.
- 3.1.7 There is a short spur from Madingley Road to building C08.
- 3.1.8 A HV cable runs from Madingley Road the west of the site to buildings D01, D02, D03 and D04.

Existing Assets Off-Site

- 3.1.9 There are HV cables in the north and south sides of Madingley Road. A HV cables runs along the east side of Clerk Maxwell Road.
- 3.1.10 There is an existing substation known as *Madingley Road Primary* which was built in the mid-90s to meet the demand requested at the time for the University development. The substation is secure for summer loads up to 18MVA and winter loads up to 24MVA. Currently, this substation is running at approximately 8MVA. To date, the NWC development has been allocated 6.5MVA of available capacity but is now expecting 9.6MVA of the remaining capacity to deliver phase 1 (this report takes the view therefore that within the near future the NWC site will reserve the required 9.6MVA). In light of both the existing load and that of the NWC development, Table 2 indicates existing capacity within both summer and winter months available for the West Cambridge development.

Table 2 Existing Capacity available to West Cambridge

Time of year	Existing capacity of substation	Current demand	NWC Demand	Available Capacity for NWC
Summer	18 MVA	8MVA	9.6MVA	0.4 MVA
Winter	24 MVA	8 MVA	9.6MVA	6.4MVA

3.2 Gas

Existing Assets On-Site

- 3.2.1 Refer to Appendix B showing GPR utility trace
- 3.2.2 There is a 273mm diameter LHP gas main crossing the site from north to south to the east of Access Road C.
- 3.2.3 The 180mm diameter MP gas main enters the site from Madingley Road into JJ Thomson Avenue, where it then splits into a 90mm diameter MP gas main (west side) and a 125mm diameter MP gas main (east side).
- 3.2.4 A 63mm diameter MP gas main spur from the 125mm diameter MP gas main, to the east follows the internal road layout to feed buildings A09, A03 and A04. This has two 63mm diameter LP gas main spurs to the north and south.
- 3.2.5 There is a 125mm diameter spur to the south end of JJ Thomson Avenue, to the east flowing the internal road to buildings A12. There is also an unknown size/pressure spur to the east side of A07. There is also a 63mm diameter MP gas main spur to building A13.
- 3.2.6 From the 90mm diameter MP gas main in the west side of JJ Thomson there is a 32mm diameter MP spur to the west to building A15.
- 3.2.7 There is a 90mm diameter MP gas main in Charles Babbage Road, which is connected to both the 90mm diameter MP gas main and a 125mm diameter MP gas main in JJ Thomson Avenue. A 63mm diameter MP gas main spurs to the south to building APR12. This gas main continues to the west, we do not have the gas main size. There is an unknown size and pressure gas main to the north along Access Road A to buildings B06, C01 and B07.
- 3.2.8 There is a 6in diameter LP gas main from Madingley Road to the south along Access Road C, this has a 90mm diameter LP gas main spur to the east to building C08.
- 3.2.9 There is a 100mm diameter LP gas main spur to the west to building D02. There is a 125mm diameter LP gas main to the west to D04 and a 125mm diameter Lp gas main spur to the west to building D05. There is an unknown size LP gas main to the east to buildings C05, C04 and C07.
- 3.2.10 A 250mm diameter LP gas main from Madingley Road to the south through the development between buildings A17, B01 following the route round the landscaping and to building B02. There is a 125mm diameter LP gas main spur to the west to building B10.
- 3.2.11 There is a 90mm diameter LP gas main spur from Madingley Road to the south to building A02.
- 3.2.12 A 180mm diameter LP gas main from Madingley Road run to the east of Clerk Maxwell Road with a 90mm diameter LP gas main spur to the west to building A06.

Existing Assets Off-Site

- 3.2.13 A 355mm/300mm diameter MP gas main is present in the south side of Madingley Road.
- 3.2.14 A 6in diameter LP gas main is present in the north side of Madingley Road.

3.3 Potable Water

Existing Assets On-Site

- 3.3.1 Refer to Appendix B showing GPR utility trace
- 3.3.2 There is an 18in diameter water main running east to west along the southern site boundary and then continuing to the west. A 280mm diameter connection south of residence A13 then continues north to run along the south side of Charles Babbage Road.
- 3.3.3 The water main then continues along the west side of JJ Thomson Road and reduces in size to 200mm diameter. There are a number of unknown size connections to both the east and west to serve existing buildings, mainly following the internal road layout. The utility trace will confirm the size and location of these water mains.
- 3.3.4 There is an unknown size water main to the east side of Access Road A, with connection to both the water mains in Charles Babbage Road and Madingley Road.
- 3.3.5 There is a 6in diameter water main to the east side of Access Road C, flowing from Madingley Road, and continuing south. There are 2 connections to the west and 1 connection to the east from the 6in diameter water main in Access Road C, to feed existing buildings.

Existing Assets Off-Site

- 3.3.6 There is a 24in diameter water main in Grange Road, 1km to the east of the site boundary. This water main then continues to the east to Queens Road and the west towards the development site, as an 18in diameter water main.
- 3.3.7 There is a 12in diameter water main in Queens Road and also in Huntingdon Road/Castle Street to the north east of the development.
- 3.3.8 There is a 6in diameter and a 3in diameter water main within Madingley Road to the north of the development site.
- 3.3.9 There are a number of 6in/5in/4in and 3in water mains within the local road network to both the north and east of the development.

3.4 Sewerage

- 3.4.1 A CCTV survey (undertaken by Camline Services, dated December 2014) has been undertaken which identifies the locations, sizes and gradients of both the surface water and foul water pipe networks which exist within the WC redline boundary. This pipework is made up of both adoptable (owned by Anglian Water) and private sewers (owned by the UoC). Due to the extents of the sewerage network and the additional details these plans provide, these plans should be referred to for further information on existing sewerage assets located within the WC site boundary. Most notably however and in reference to both the surface water and foul water networks, the following can be observed;

Surface Water

- 3.4.2 A 225mm diameter surface water sewer is located to the north west of the development boundary and south of Madingley Road. The final MH of this run is AW SW MH 2352 which outfalls to an un-named watercourse just north of Madingley Road. This discharges to Washpit Brook.

- 3.4.3 Towards the north east side of the development boundary, a 300mm diameter surface water main runs through the site curtilage. This adjoins to a 450mm diameter SW sewer which drains by gravity to AW SW MH 5752 located along Wilberforce Road which consequently outfalls to Coton Brook watercourse.
- 3.4.4 A 300mm diameter SW sewer runs north to south along Clerk Maxwell Road which outfalls to the existing south east lake owned by UoC

Foul Water

- 3.4.5 A 300mm diameter FW sewer runs from the South east corner of the WC development boundary to a 225mm diameter sewer located along Wilberforce Road
- 3.4.6 A 300mm diameter FW sewer runs along the entirety of Madingley Road adjacent to the WC site boundary.

3.5 Telecommunication

Existing Assets On-Site

- 3.5.1 Refer to Appendix B showing GPR utility trace
- 3.5.2 The GPR utility trace indicates extensive presence of underground telecommunication infrastructure.
- 3.5.3 The Cambridge Asset Manual identifies that these networks are maintained by the following telecommunication providers;
 - British Telecom
 - Virgin Media
 - Granta Backbone Network
- 3.5.4 These networks run along all site internal main roads including Charles Babbage Road, JJ Thompson Avenue and also the 3 internal roads which run north to south and connect Madingley Road to Charles Babbage Road in which they incept at right angles.
- 3.5.5 The size of these cables however remains unidentified and will need to be confirmed by the relevant telecom providers.

Existing Assets Off-Site

- 3.5.6 The Cambridge Asset Manual identifies that British Telecom and Virgin Media underground cable runs along the full extent of Madingley Road adjacent to the WC site. BT underground assets run along the full length of Clerk Maxwell Road.
- 3.5.7 The size of these cables however remains unidentified and will need to be confirmed by the relevant telecom providers

3.6 District CHP Network

3.6.1 No existing District heating network is present within or nearby the site boundary

4 Proposed Supply

4.1 Electricity

Onsite New Supply Works

Table 3 New Supply – Electricity Peak Demand

Utility	Demand Description	Demand
Electricity	Peak Demand MW	18.92

4.1.1 PBA wrote to UKPN on 23 October 2014. UKPN have advised in their letter dated 24 November 2014 ref 401675377, that the new development can be supplied via an 11kV Point of Connection (PoC) at the existing Madingley Road Primary Substation.

Off-site New Supply Works

4.1.2 Further to the initial enquiry response from UKPN on 24 November 2014, UKPN have since provided a more detailed breakdown of the off-site reinforcement works which could potentially be undertaken to the existing Madingley Road Substation and associated infrastructure to provide additional capacity.

4.1.3 It should be noted that due to the reduced summer capacity of all electrical infrastructure when compared to that of the winter, the summer represents the worst case and therefore represents the design target which needs to be met.

4.1.4 It should also be noted that as of current, the NWC development has reserved a capacity of 6.5MVA but is now currently expecting a capacity of 9.6MVA. This will therefore be taken into account.

4.1.5 Breakdown as follows;

- Increased transformer capacity to increase the maximum summer capacity at Madingley Road from 18 to 26 MVA. The next limiting factor is the size of a cable between the tee-off of the 33kV cable to Storey’s Way Primary, and the 33kV bars at Madingley Rd.
- Increased cable size which will not increase the maximum summer capacity at Madingley Rd from 26 MVA (Winter capacity increases from 28- 33MVA), keeping the available Summer capacity at 8.4MVA. This is due to the existing overhead line (next reinforcement stage) being seasonally rated, whilst underground cables have a single rating throughout the year. The next limiting factor is the 33kV Overhead line (OHL) between Histon Grid and Madingley Rd.
- Reinforced OHL which will increase the maximum summer capacity at Madingley Rd from 26 to 31 MVA.

4.1.6 The additional capacity each of these measures gives to the West Cambridge development is shown in Table 4.

Table 4 Additional Capacity generated from Madingley Road Primary and associated infrastructure Improvements

Reinforcement option	Summer capacity	Winter Capacity	Assumed load from NWC development	Assumed existing Load	WC available capacity in summer months
Existing	18	24	9.6	8.0	0.4
1. (2.2m)	26	28	9.6	8.0	8.4
2. (1.4m)	26	33	9.6	8.0	8.4
3. (1.4m)	31	40	9.6	8.0	13.4

4.1.7 It should be noted that the WC available capacity identified in Table 4 likely assumes a best case scenario.

4.1.8 Madingley Road, in a best case scenario, can potentially supply 13.4MVA of electricity (not taking account of future increases in existing load or phases beyond phase 1 of the NWC development coming forward) and the peak demand has been calculated at 18.92MW, a minimum deficit exists of around 5.52MVA and which will need to be provided for.

4.1.9 The options to meet the additional demand are as follows:

- Storey’s Way Primary can take approximately 5MVA but is best located to contribute to the supply of future phases of the NWC development. This will provide relief to the Madingley Road primary which may consequently allow a greater load from the WC development.
- An additional sub could be installed at Madingley Road. This would double the full capacity of the site to over 60MVA. Reinforcement costs associated with this would be apportioned between UKPN and the UoC based on the final demand required.

Caveats

- At this stage in the project the demand estimates can only be based on a BSRIA factor/m² based on the proposed building class (A1/B1 etc) and cannot be considered summer or winter loads. More detailed estimates following M&E designs are likely to reduce the BSRIA demand predictions.
- The total detailed development demands arising from the North West Cambridge development are unknown.

4.1.10 These capacity values are based on the following assumptions:

- Load on Storey’s Way Primary does not significantly increase
- No account is taken of any load that may be released from existing buildings to be demolished
- No other loads are connected to Madingley Road Primary.

Timescales

4.1.11 From the acceptance of a formal quote the required reinforcement works to Madingley Road Primary would take 18-24 months to complete including all lead-in and design time. This assumes that all three stages of upgrade are done in parallel. If done separately the Transformer would take circa 18-24 months, New cable and cable reinforcement would take circa 12-18 months.

4.2 Gas

New Supply

Table 5 New Supply – Gas Peak Demand

Utility	Demand Description	Demand
Gas	Peak Hourly Demand kWh	16881
	Annual Demand MWh	38405

4.2.1 PBA applied for a confirmation of the Point of Connection (PoC) for the new development to the existing network on 28 November 2014.

4.2.2 NGG have advised in their letter dated 4 December 2014 that a suitable PoC was identified 10m from the site boundary within Madingley Road, to a Medium Pressure (MP) main to meet the estimated demand. Following review of the asset records provided, PBA requested a more appropriate PoC on the campus to a MP main.

4.2.3 NGG have advised in their letter dated 18 December 2014 that a suitable PoC was identified on JJ Thomson Avenue to a medium pressure (MP) main to meet the estimated demand.

4.2.4 Following completion of the phased loadings sheets, there is an apparent additional demand of some 7444 kWh (peak) required above the original application. The nearest point of connection for this would be 10m from the NE site boundary and the connection would be to a 355mmØ MP pipe. It is likely that this demand will reduce as the buildings designs develop and a more accurate demand assessment can be made, particularly if the CHP plant is utilised.

4.3 Potable Water

New Supply

Table 6 New Supply – Potable Water Peak Demand

Utility	Demand Description	Demand
Potable Water	Demand m ³ /day	931.06
	Daily Peak Demand litres/sec	75

- 4.3.1 PBA applied for a budget estimate for the new development to the existing network on 28 November 2014 and Cambridge Water (CW) advised on 12 December 2015 that they would need to carry out modelling works to measure impact of West Cambridge demand on the existing network.
- 4.3.2 Following an interim meeting between PBA and CW on 27 January 2015, it was identified that modelling works carried out should be based on a peak demand of 75l/s
- 4.3.3 CW advised in an email dated 10 February 2015 that there is currently capacity in the trunk mains along JJ Thomson Avenue, Charles Babbage Road and Madingley Road for potential PoCs. To satisfactorily supply this, CW indicated the need for reinforcement of a section of the existing trunk mains along Queens Rd, Madingley Rd and Lady Margaret Rd to avoid adverse effects on the water pressures to the West and North of the city centre.

4.4 Sewerage

New Supply

- 4.4.1 For further information and detail on the surface water drainage strategy refer to PBA Flood Risk Assessment, dated May 2016

Surface Water New Supply

- 4.4.2 The on-site drainage and flood risk strategy has been developed by PBA based on the use of SuDS features to ensure the disposal of surface water runoff in regards to both runoff rate and volume is less than or equal to that of pre-developed greenfield runoff. This approach therefore does not require any offsite works to be completed because discharge rates into the wider drainage system will not increase.

Foul Water New Supply

- 4.4.3 It is proposed foul water will be discharged to 2 separate foul water public sewers maintained by Anglian Water. The location of these public sewers and envisaged Dry Weather Flows (DWF) discharge rates are as follows;
 - 3l/s DWF (9l/s peak flow) to Madingley Road public sewer, MH ref (TL42595201)
 - 40l/s DWF (120l/s peak flow) to Wilberforce Road public sewer, MH ref (TL43585604)
- 4.4.4 For further information on the foul water drainage refer to PBA Flood Risk Assessment, dated May 2016

- 4.4.5 Connection to both public sewer discharge locations has been agreed by Anglian Water within an Addendum to the preplanning assessment report dated 24 December 2015 – revision 1.0.
- 4.4.6 This report concludes that no offsite reinforcement works are required to be undertaken by Anglian Water directly to deliver a foul water connection. It should be noted however that a 300mm diameter pipe of around 350m in length will need to be constructed beyond the site boundary to make a connection to the Wilberforce Road public sewer. This infrastructure has been included in Gardiner Theobald cost plan and should be referred to for detailed costings.

4.5 Telecommunication

New Supply

- 4.5.1 Existing asset records indicate that the coverage of telecommunication infrastructure within the WC site is extensive and runs along all main internal corridors. It is thought the provision of new infrastructure to connect new development would be minimal.

4.6 District CHP Network

New Supply

- 4.6.1 A District CHP Network is proposed as part of the proposed development. Appendix E shows the location of the proposed energy centre located to the west side of the WC site and also the indicatively proposed District Heating Pipe Network. The arrangement shows the largest trunk pipe diameters exist along Charles Babbage Road which then reduce as the pipework splits off to various areas around the site.

Appendix A Site Location Plan



All information other than that identified as being for approval is shown for contextual purposes only.

West Cambridge

WC/OPA/APP/01 - Plan for Approval:
 Application Site Boundary

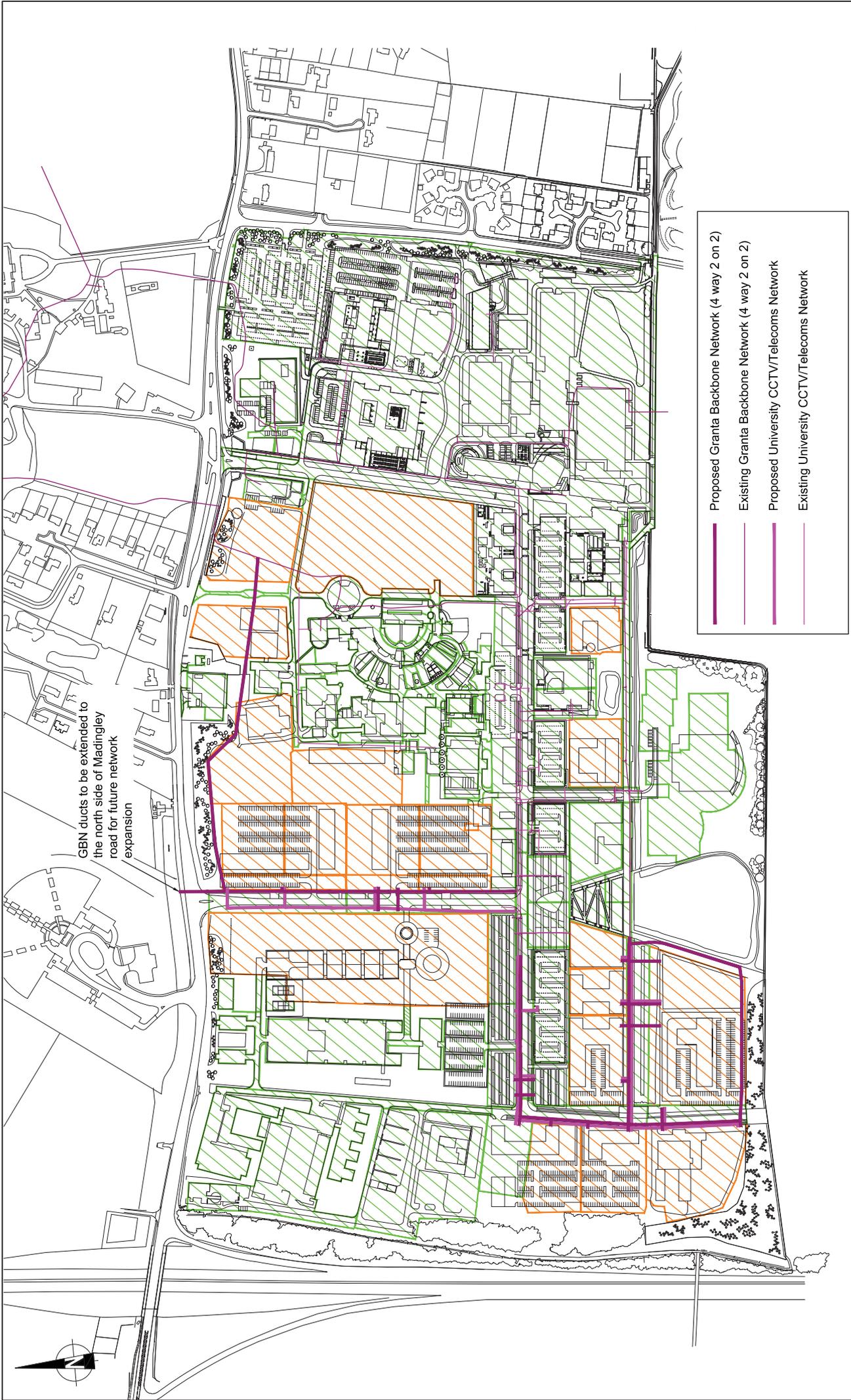
February 2016



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Appendix B Site Wide GPR Utility Trace

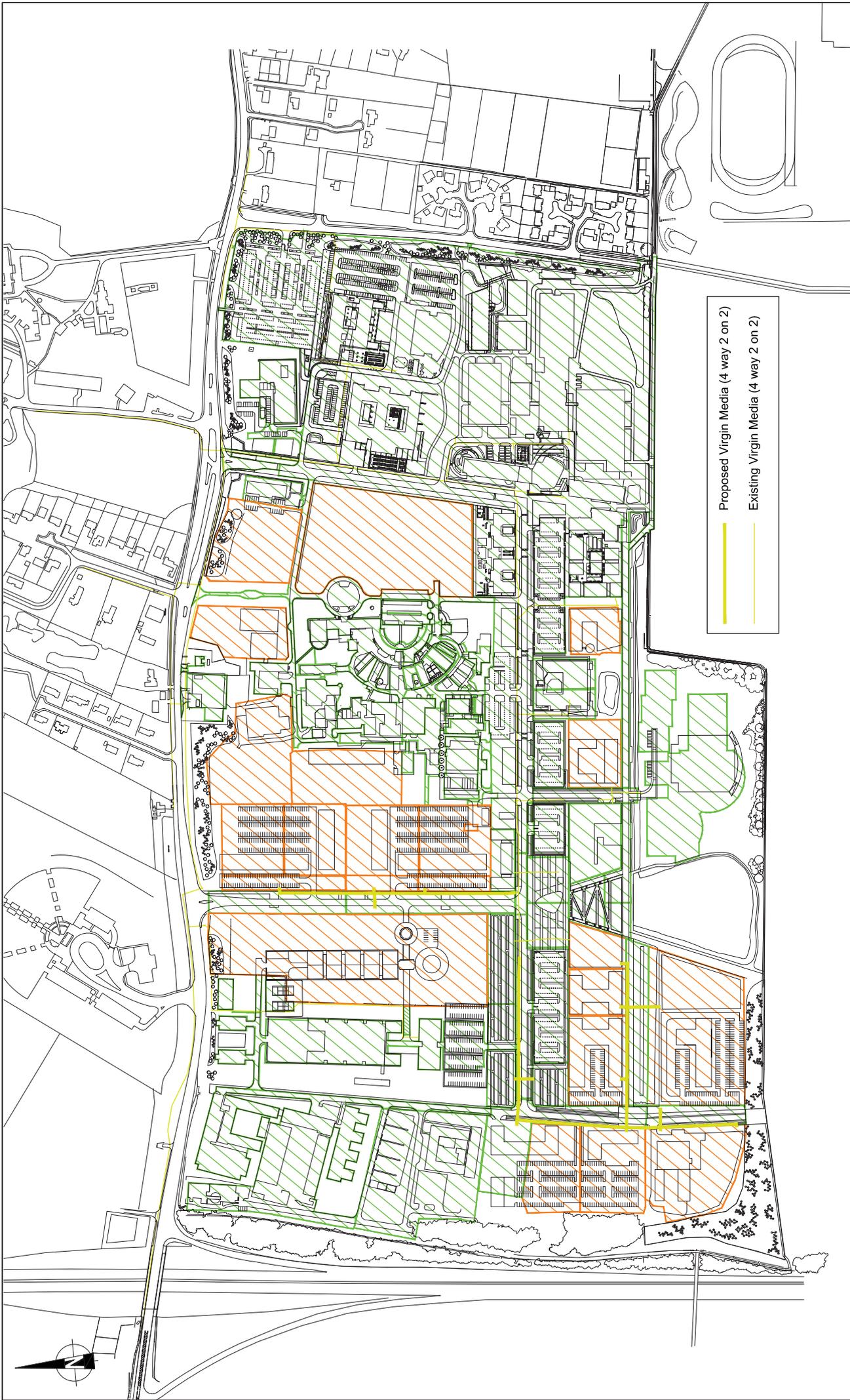
Appendix C Asset Plans



GBN ducts to be extended to the north side of Madingley road for future network expansion

	Proposed Granta Backbone Network (4 way 2 on 2)
	Existing Granta Backbone Network (4 way 2 on 2)
	Proposed University CCTV/Telecoms Network
	Existing University CCTV/Telecoms Network

<p>UNIVERSITY OF CAMBRIDGE</p>	<p>CLIENT</p>																																			
	<p>SERVICE ENQUIRY PLAN GRANTA BACKBONE NETWORK AND UNIVERSITY CCTV/TELECOMS NETWORK</p>																																			
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<p><small>SCALING NOTE: Do not scale from this drawing. If in doubt, ask. Utility services, plant or apparatus shown on this drawing is believed to be correct. However, the user should verify the location and depth of any services, plant or apparatus shown on this drawing. Other than plant or apparatus shown on this drawing, the user should verify the location and depth of any services, plant or apparatus shown on this drawing. The user should verify the location and depth of any services, plant or apparatus shown on this drawing. The user should verify the location and depth of any services, plant or apparatus shown on this drawing.</small></p>																																				



Proposed Virgin Media (4 way 2 on 2)
 Existing Virgin Media (4 way 2 on 2)

KEY

	DEVELOPED AREA
	GREENFIELD AREA

**SERVICE ENQUIRY PLAN
 VIRGIN MEDIA SERVICES**



Client
 UNIVERSITY OF CAMBRIDGE

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INFORMATION

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Drawing Status				
Date of 1st Issue	NY1	Drawing Number	3 1500/2001/136	
A3 Scale	NTS	Checked by	-	
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Revision				

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours: Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : BVB10449U

Map Reference : (centre) TL4314058989

Easting/Northing : (centre) 543140,258989

Issued : 10/06/2016 10:44:38

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



IMPORTANT WARNING

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : CUA10431F

Map Reference : (centre) TL425 105899Z

Easting/Northing : (centre) 542510,25899Z

Issued : 10/06/2016 10:43:55

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : DSK10464D

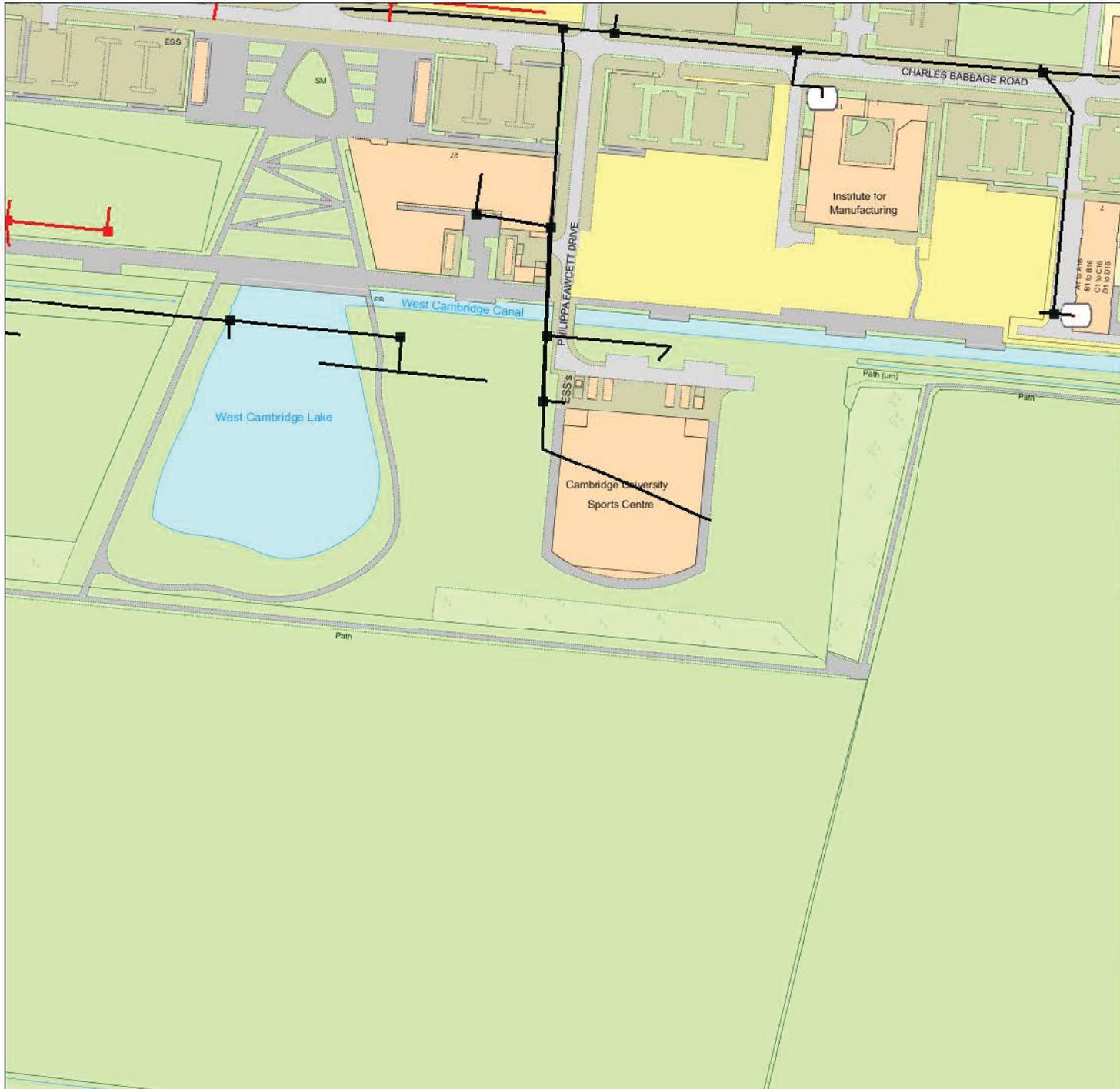
Map Reference : (centre) TL4303458796

Easting/Northing : (centre) 543034,258796

Issued : 10/06/2016 10:46:15

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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BT Ref : FZL10467H

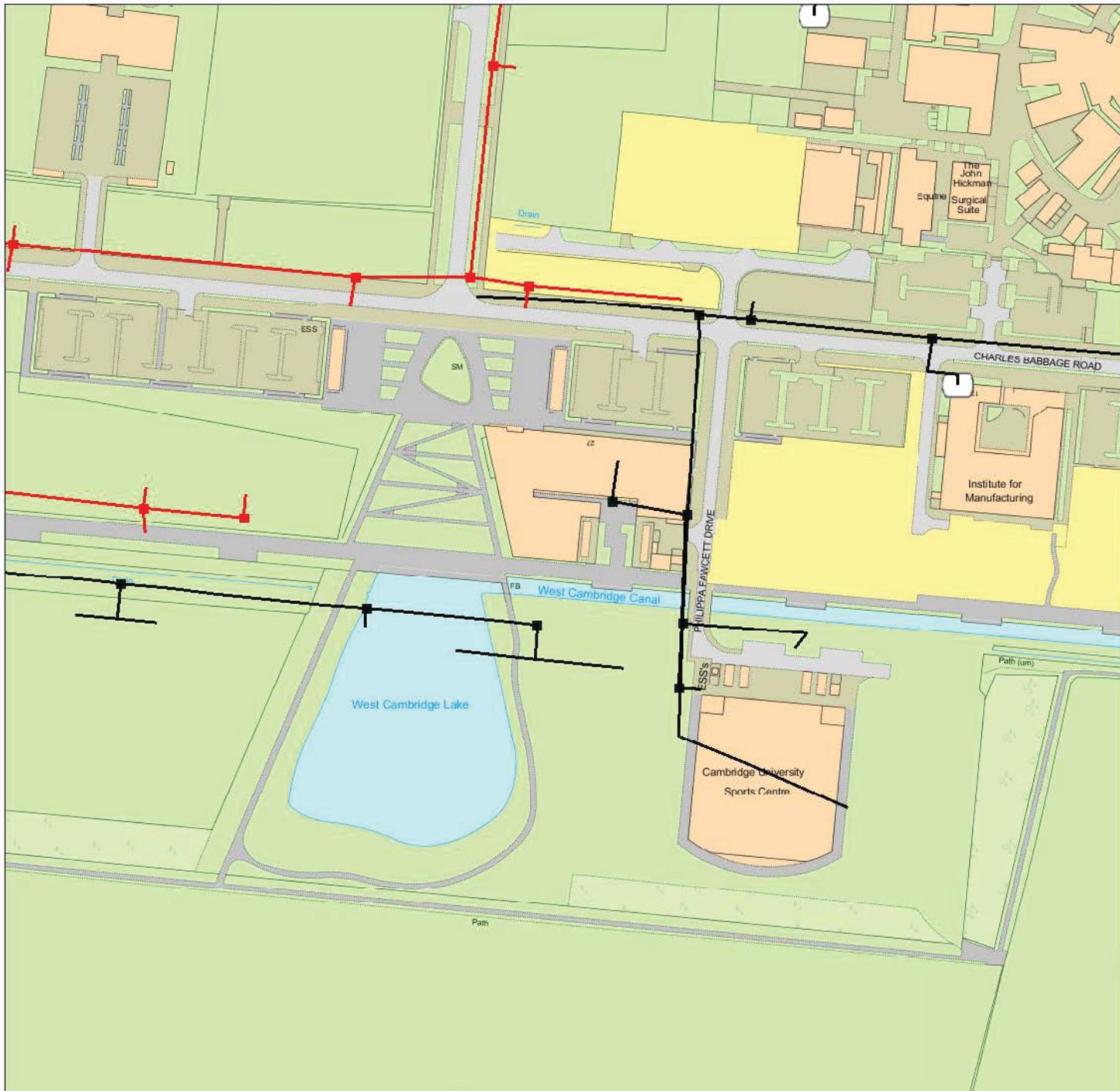
Map Reference : (centre) TL4258358678

Easting/Northing : (centre) 542583,258678

Issued : 10/06/2016 10:46:54

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : IZJ10456H

Map Reference : (centre) TL4252258809

Easting/Northing : (centre) 542522,258809

Issued : 10/06/2016 10:45:28

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Maps by email Plant Information Reply



IMPORTANT WARNING

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : NTP10423X

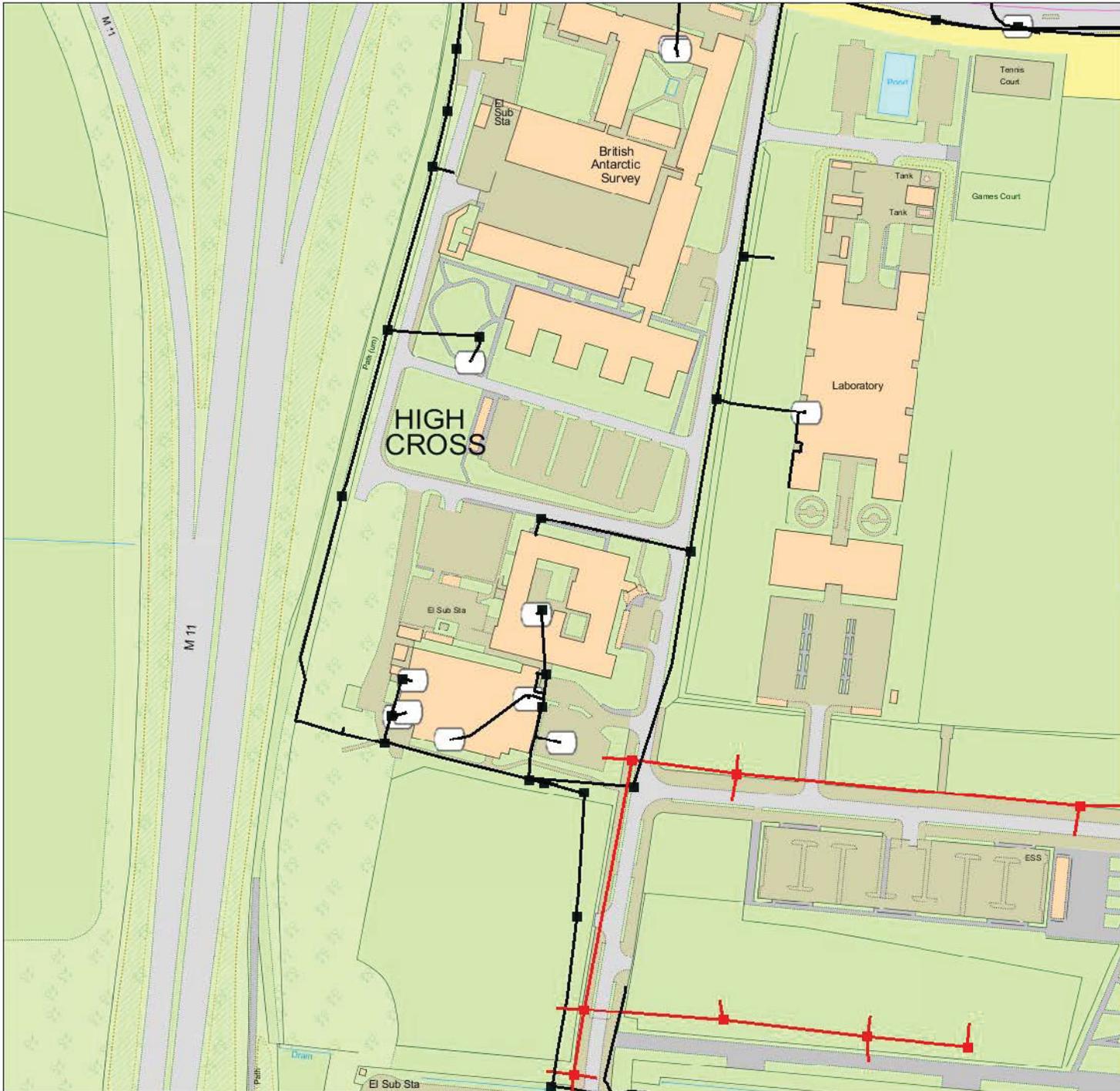
Map Reference : (centre) TL4310359122

Easting/Northing : (centre) 543103,259122

Issued : 10/06/2016 10:43:02

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : RQR10437Y

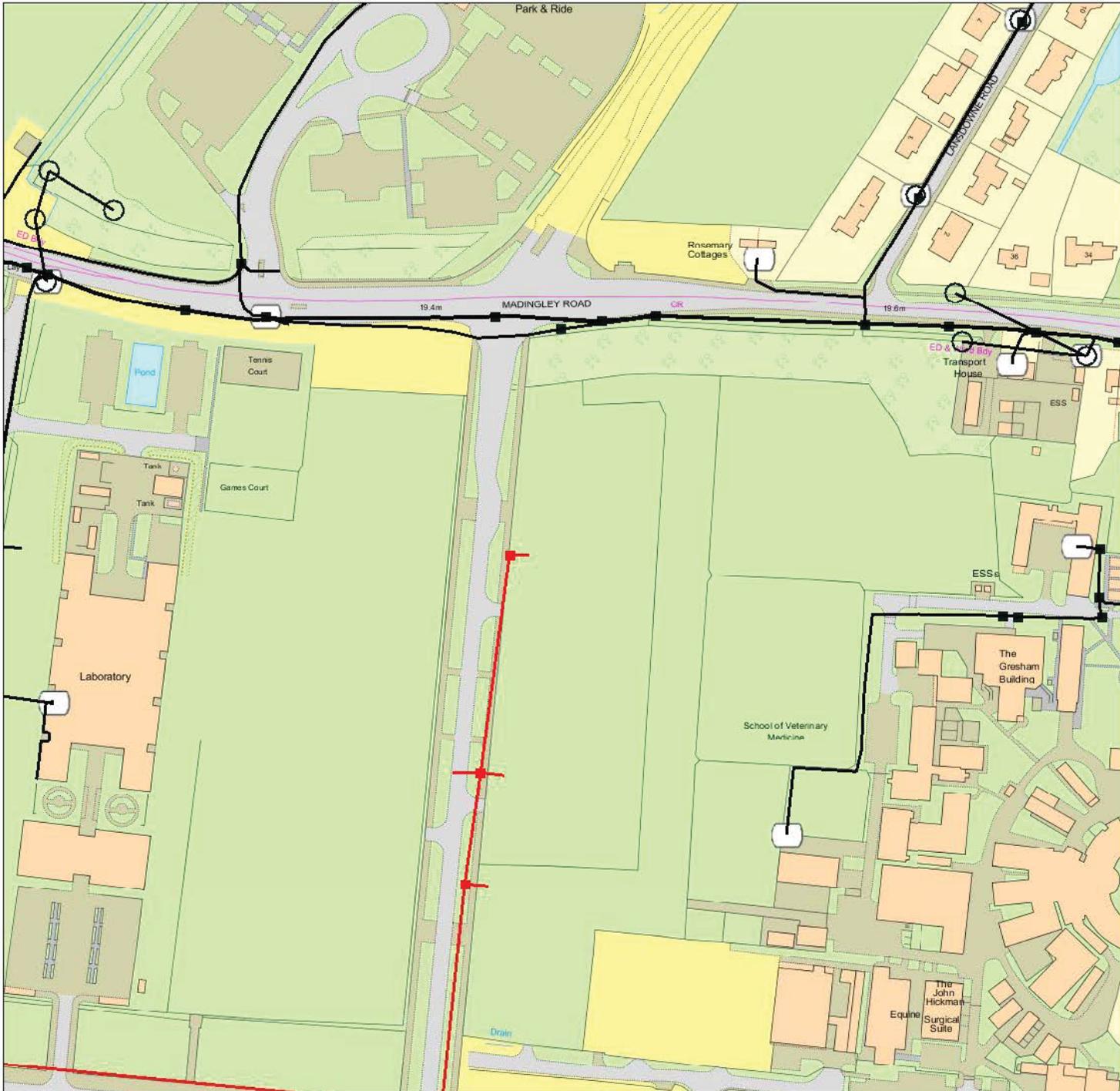
Map Reference : (centre) TL4219859052

Easting/Northing : (centre) 542198,259052

Issued : 10/06/2016 10:43:23

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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BT Ref : RZC10416H

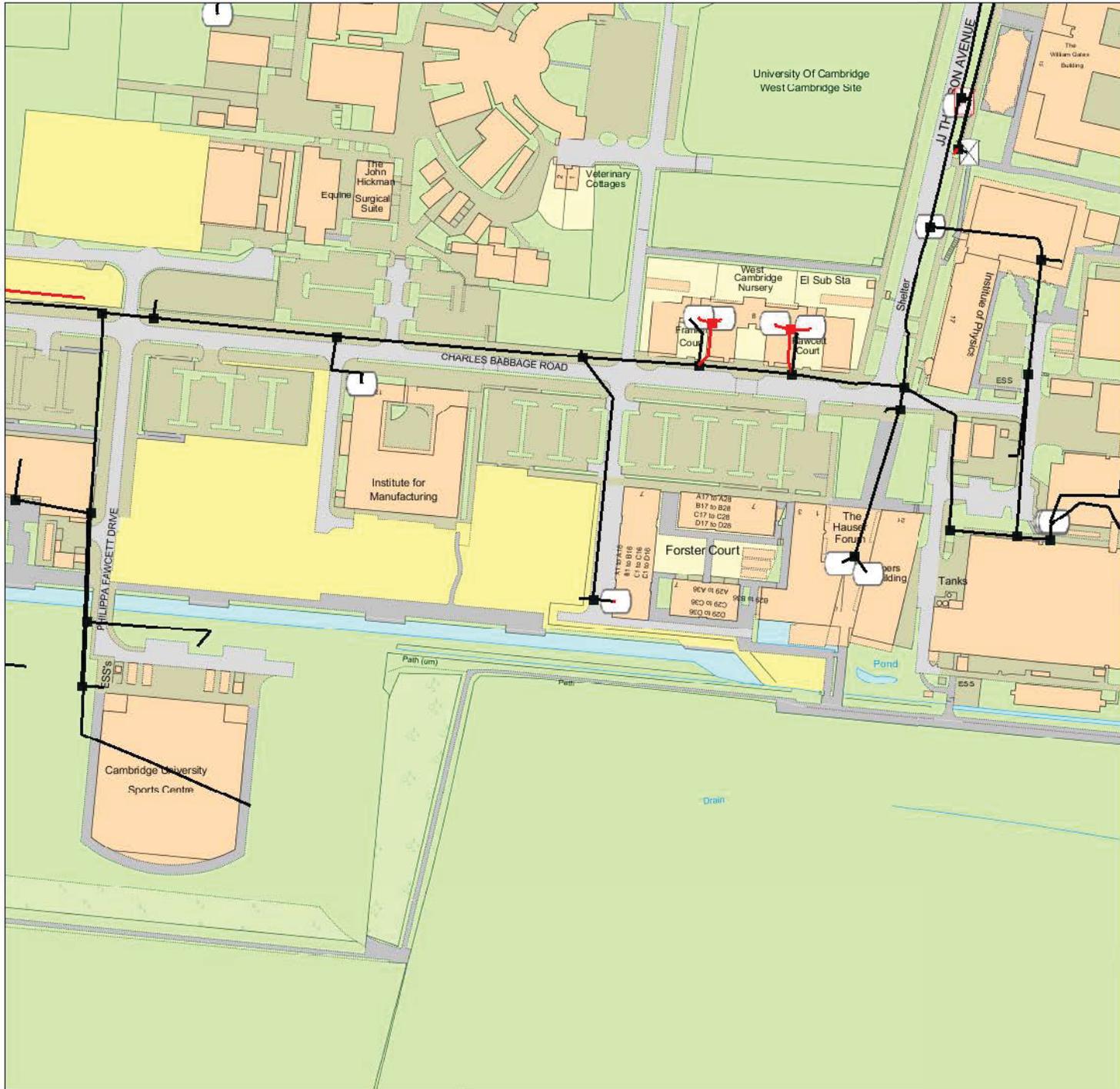
Map Reference : (centre) TL4253459185

Easting/Northing : (centre) 542534,259185

Issued : 10/06/2016 10:42:08

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	A/C, D/W or W OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	456 OR 456 DISTRIBUTION POINT		JOINTING POST
	72 OR 72 MANHOLE		PROPOSED U/G
	DP BOUNDARY		A/C, D/W or W PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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BT Ref : SFN10456P

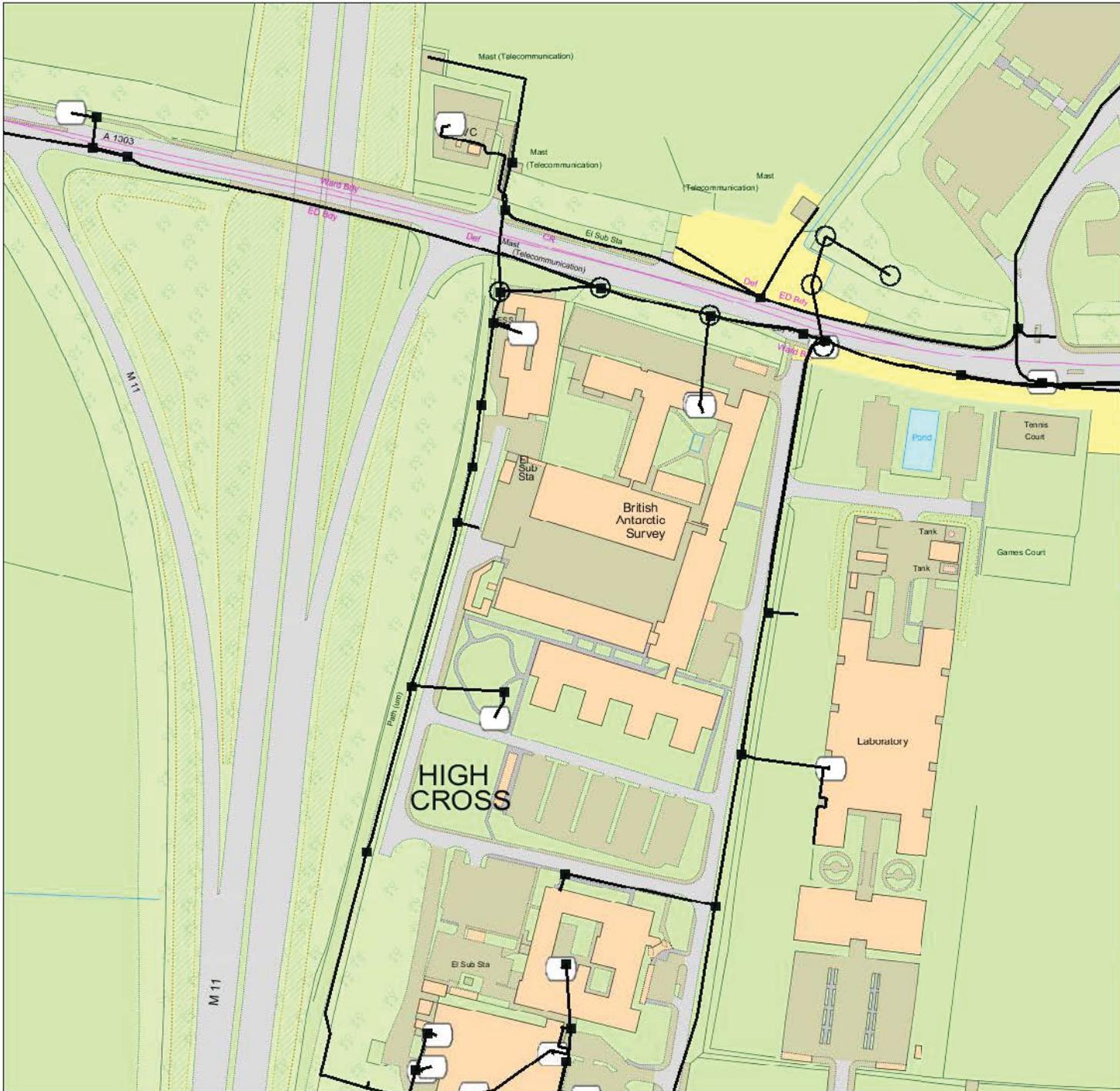
Map Reference : (centre) TL4278958809

Easting/Northing : (centre) 542789,258809

Issued : 10/06/2016 10:45:48

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : SOZ104130

Map Reference : (centre) TL4218759215

Easting/Northing : (centre) 542187,259215

Issued : 10/06/2016 10:41:51

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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BT Ref : TOU10441T

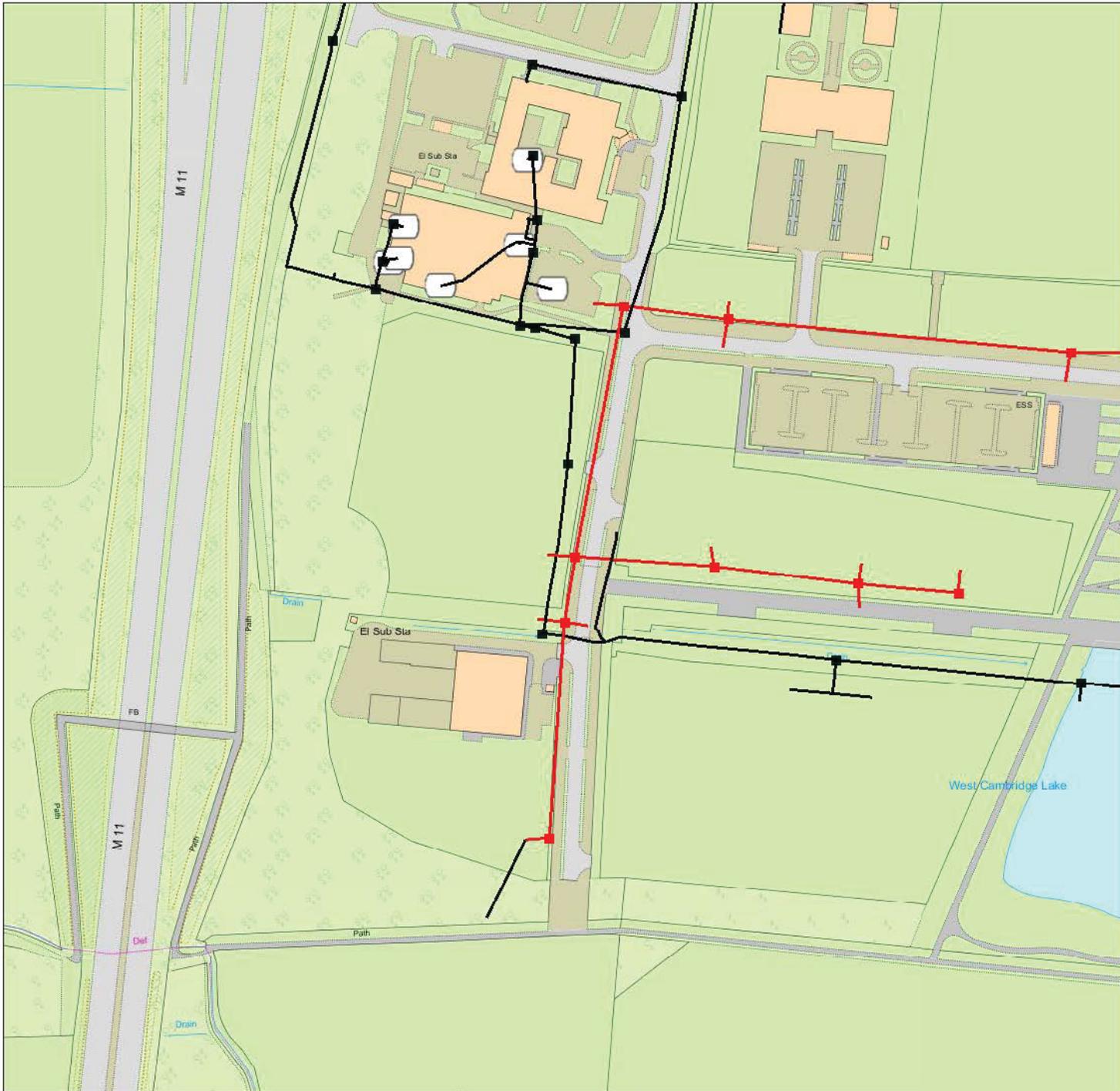
Map Reference : (centre) TL4286558997

Easting/Northing : (centre) 542865,258997

Issued : 10/06/2016 10:44:14

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Maps by email Plant Information Reply



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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

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BT Ref : YFO10449Y

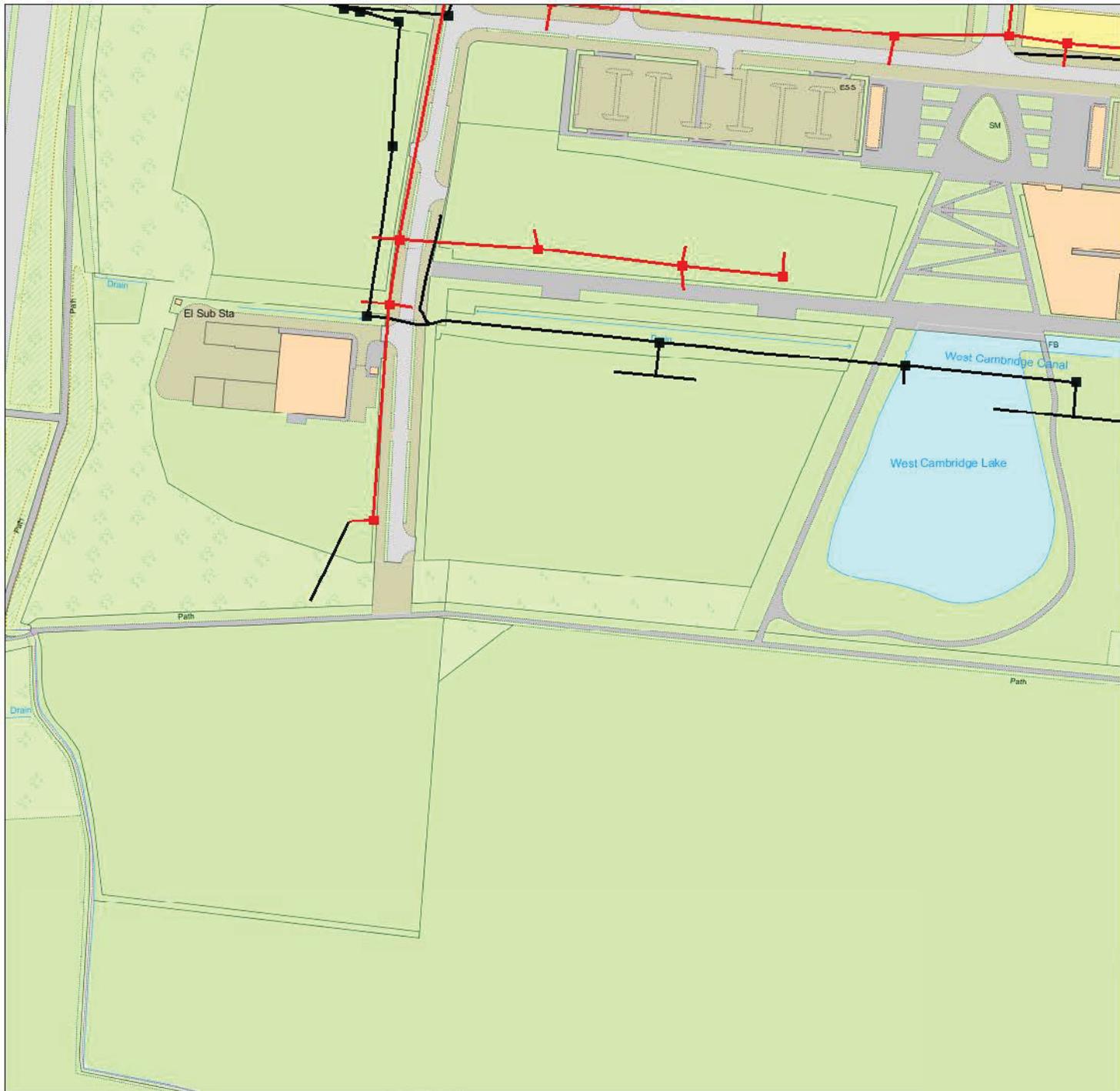
Map Reference : (centre) TL4220258844

Easting/Northing : (centre) 542202,258844

Issued : 10/06/2016 10:45:07

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.



BT Ref : YIE10465P

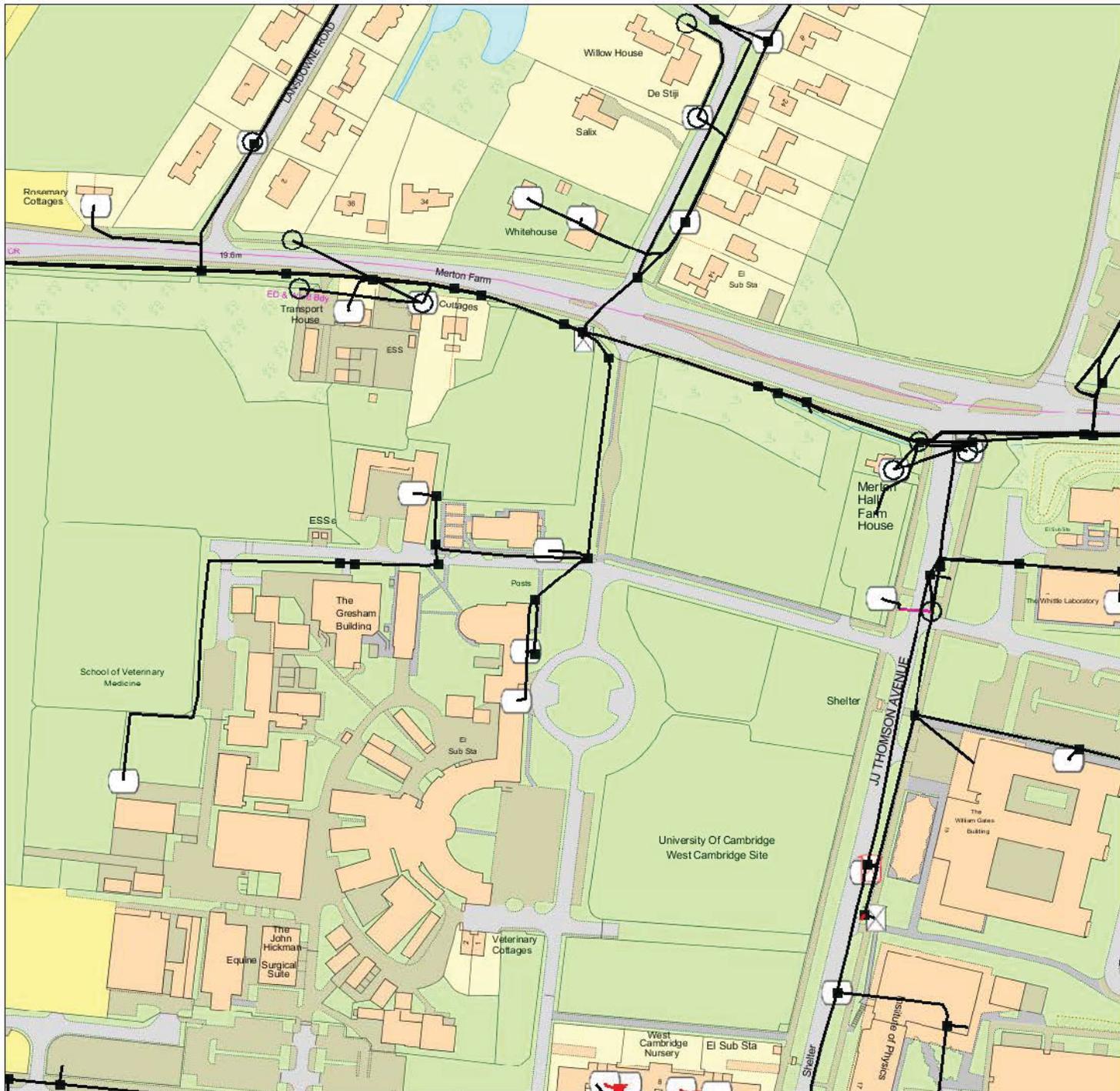
Map Reference : (centre) TL4228158698

Easting/Northing : (centre) 542281,258698

Issued : 10/06/2016 10:46:32

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

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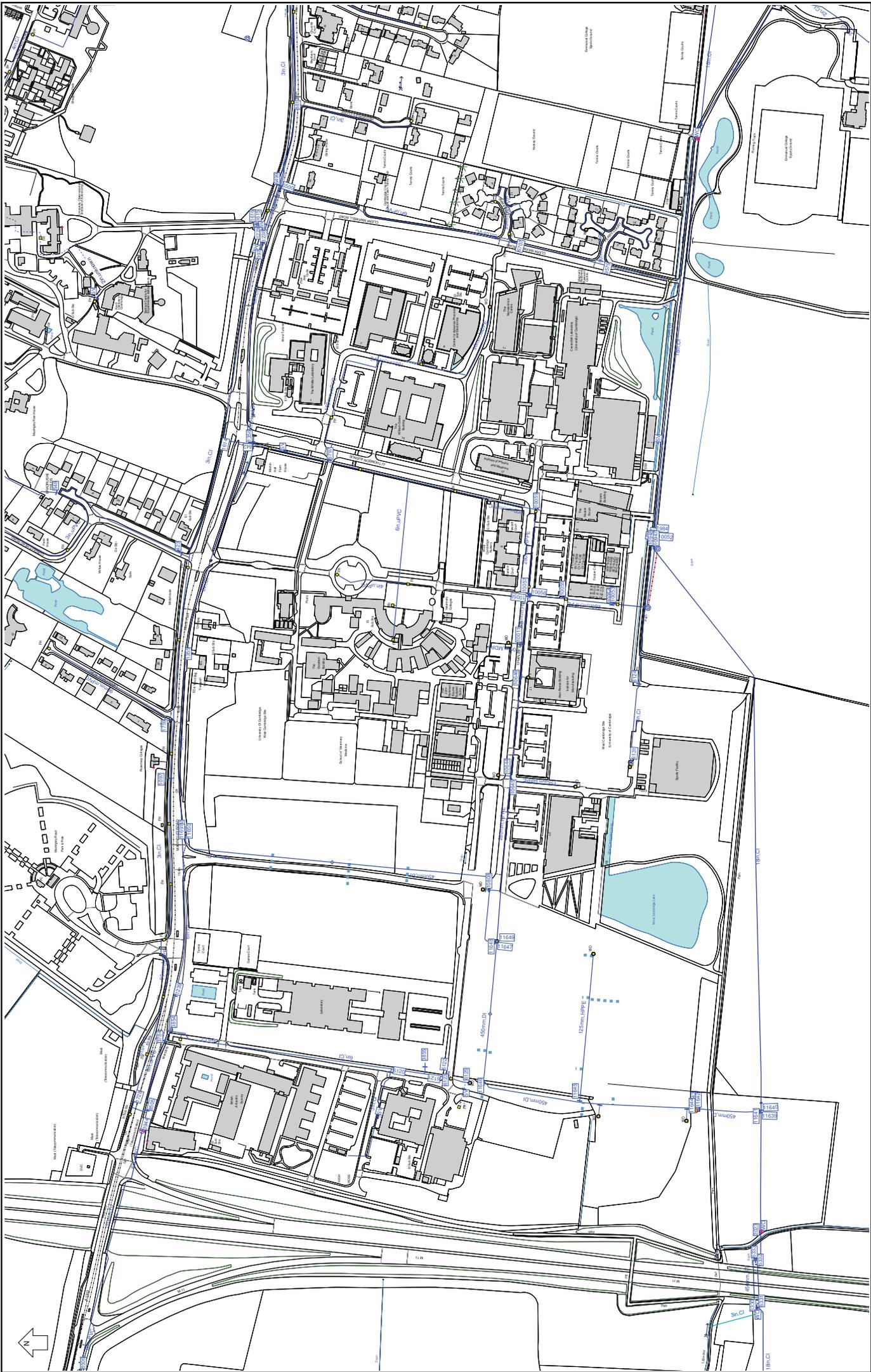
BT Ref : YRR10425N

Map Reference : (centre) TL4283159160

Easting/Northing : (centre) 542831,259160

Issued : 10/06/2016 10:42:44

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This information is provided for general guidance only. It is not intended to be used as a basis for any design or construction. The actual position of the mains may be established by taking a trial hole in all cases. The Company must be given two working days notice before any work is carried out on the pipes. No service pipes are shown on this plan. Information correct at time of printing, but subject to change.

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 Cambridge
 CB2 1JH
 01223 760303

Scale @A1: 1:2000

Drawn: 21/10/2014 By: 103494

Title: West Cambridge site



Haider Ali
Hannah Reed & Associates
Telford House
Cow Lane
Fulbourn
Cambridge
Cambridgeshire
CB215HB

Date: 10/06/2016
Our Ref: EA_TE_Z5_3FWX_030346
Your Ref: 31500
RE: Formal Enquiry, 31500 - West Cambridge Masterplan

Thank you for your enquiry which was received on 10/06/2016.
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

For details of National Grid's network areas please see the National Grid website (<http://www.nationalgrid.com/uk/Gas/Safety/work/>) or the enclosed documentation.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

Plant Protection
National Grid
Block 1; Floor 1
Brick Kiln Street
Hinckley
LE10 0NA
E-mail: plantprotection@nationalgrid.com
Telephone: +44 (0)800 688588

**National Grid Electricity Emergency Number:
0800 40 40 90***

**National Gas Emergency Number:
0800 111 999***

* Available 24 hours, 7 days/week.
Calls may be recorded and monitored.

www.nationalgrid.com

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does **NOT** include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>).

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the National Grid Plant Protection team via e-mail ([click here](#)) or via the contact details at the top of this response.

Yours faithfully

National Grid Plant Protection Team

ASSESSMENT

Affected Apparatus

The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- High or Intermediate pressure (above 2 bar) Gas Pipelines and associated equipment
- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)
- Above ground gas sites and equipment

Please do not commence any work before you have been contacted, and the relevant authorisation received.

As your project progresses, it is recommended that you make a further enquiry to reflect that progress, at which point you will be asked to supply further information.

Requirements

BEFORE carrying out any work you must:

- **Ensure that no works are undertaken in the vicinity of our gas pipelines and that no heavy plant, machinery or vehicles cross the route of the pipeline until detailed consultation has taken place.**
- **Note the presence of an Above Ground Installation (AGI) in proximity to your site. You must ensure that you have been contacted by National Grid prior to undertaking any works within 10m of this site.**
- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <http://www.hse.gov.uk>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

GUIDANCE

High Pressure Gas Pipelines Guidance:

If working in the vicinity of a high pressure gas pipeline the following document must be followed: 'Specification for Safe Working in the Vicinity of National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties' (SSW22). This can be obtained from:
<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33968>

Dial Before You Dig Pipelines Guidance:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33969>

Excavating Safely - Avoiding injury when working near gas pipes:

http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982>

General Guidance document:

<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103>

Excavating Safely in the vicinity of gas pipes guidance (Credit card):

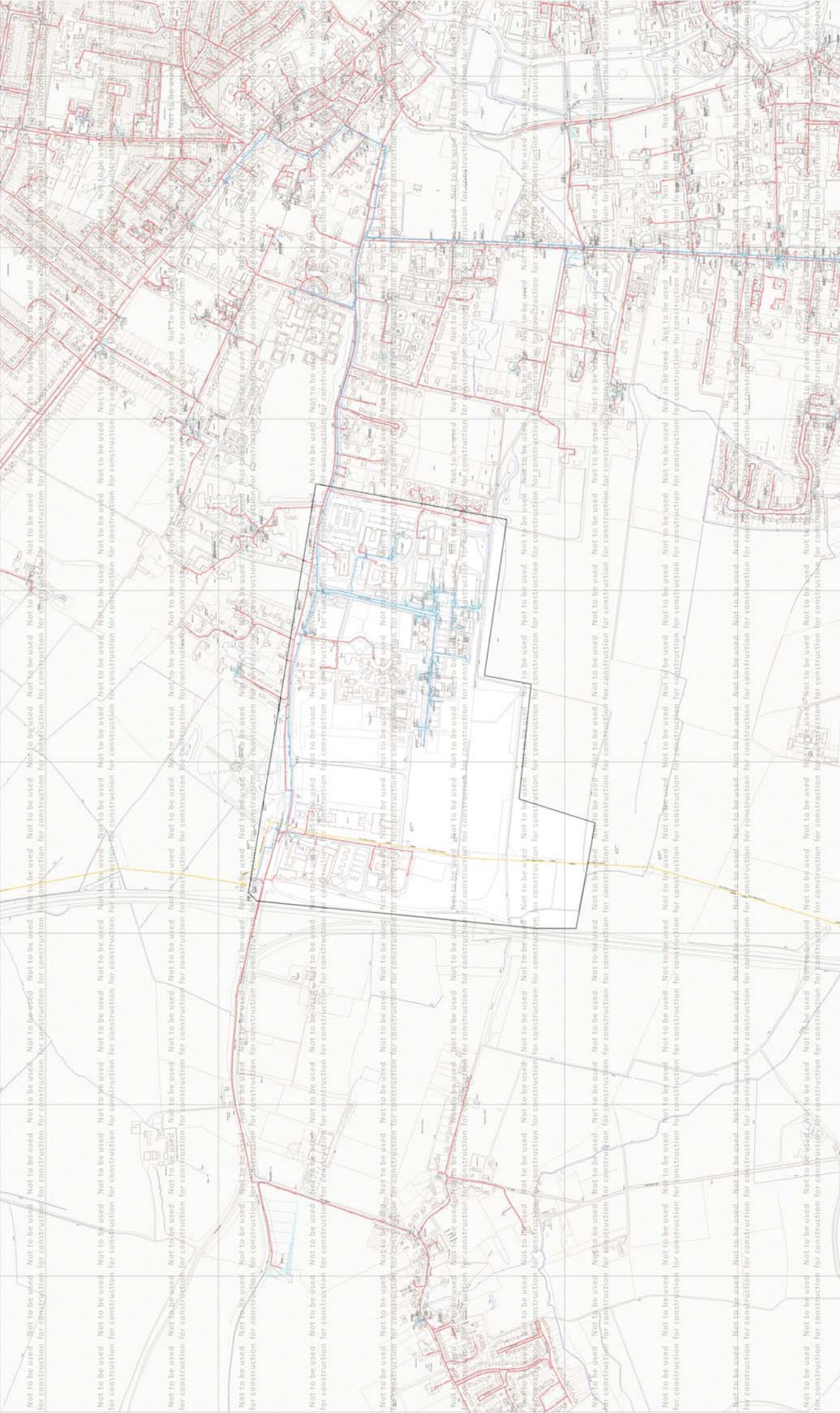
<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

Excavating Safely in the vicinity of electricity cables guidance (Credit card):

<http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf>

Copies of all the Guidance Documents can also be downloaded from the National Grid Website:

<http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/>



ID: EA_TE_Z5_3FWX_030346 View extent: 4120m, 2440m

USER: HannahReed

DATE: 10/06/2016

DATA DATE: 09/06/2016

REF: 31500

MAP REF: TL4258

CENTRE: 642663, 256913

Some examples of Pipe Mains:
 View Depth of Cover Syphon Diameter Change Mains Change Out of Cover Service

Map not to be used for construction

This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSG47, must be used to verify and establish the actual position of mains pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

ENQUIRY SUMMARY

Received Date

10/06/2016

Your Reference

31500

Location

Centre Point: 542663, 258912

X Extent: 1300

Y Extent: 1005

Postcode: CB3 0ES

Location Description: 31500 - West Cambridge Masterplan

Map Options

Paper Size: A3

Orientation: LANDSCAPE

Requested Scale: 10000

Actual Scale: 1:10000 (GAS)

Real World Extents: 4120m x 2440m (GAS)

Recipients

hali@peterbrett.com

Enquirer Details

Organisation Name: Hannah Reed & Associates

Contact Name: Haider Ali

Email Address: hali@peterbrett.com

Telephone: 01223882000 (01223882000)

Address: Telford House, Cow Lane, Fulbourn, Cambridge, Cambridgeshire, CB215HB

Description of Works

N/A. N/A

Enquiry Type

Formal Enquiry

Activity Type

Development Project

Work Types

Work Type: Surface Works

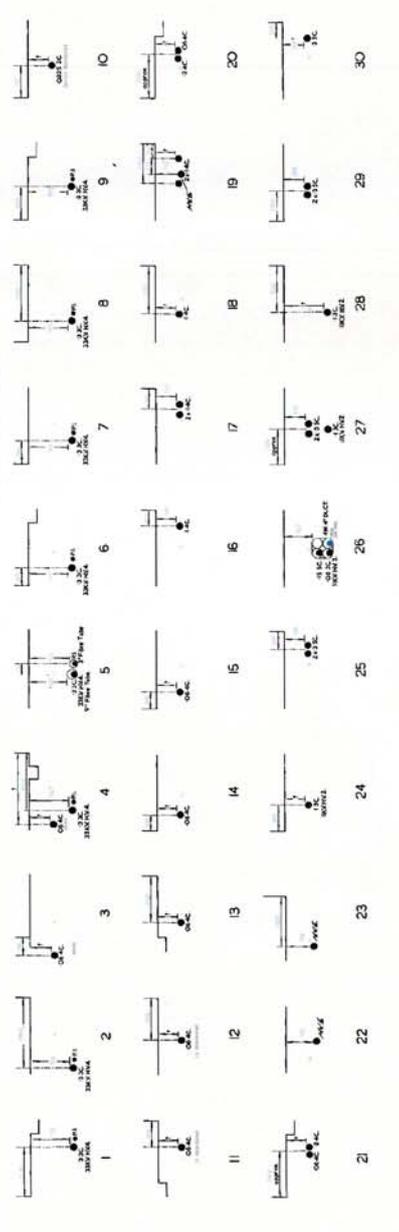
Notice Types

Notice Type: NRSWA Diversion Request (C2 Preliminary Enquiry)

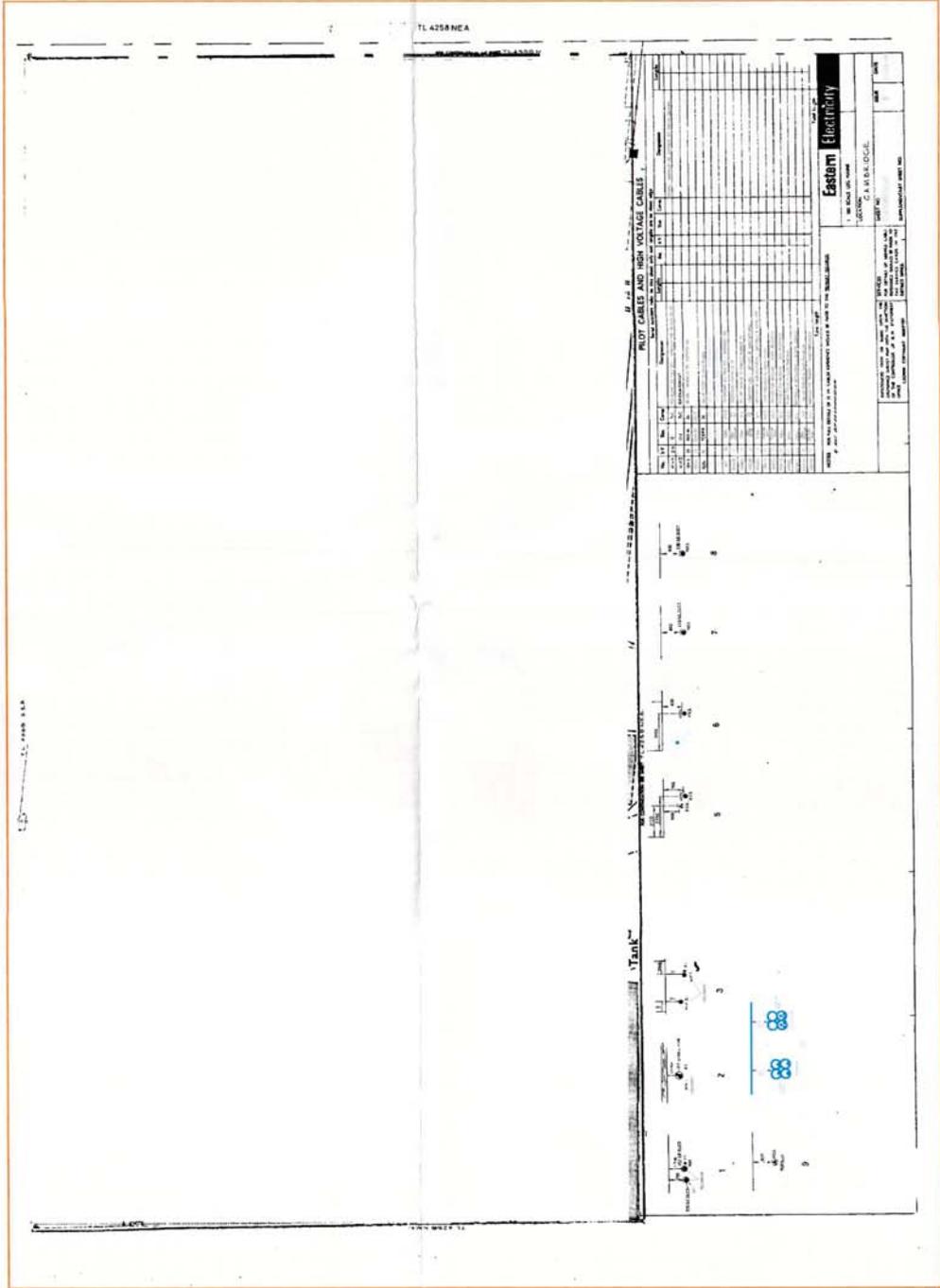
PILOT CABLES AND HIGH VOLTAGE CABLES

No.	Size	Core	Description	Serial Number	Designation	No.	Size	Core	Designation
1	1/2"	3C	3C	1000000000	1000000000	1	1/2"	3C	1000000000
2	1/2"	3C	3C	1000000000	1000000000	2	1/2"	3C	1000000000
3	1/2"	3C	3C	1000000000	1000000000	3	1/2"	3C	1000000000
4	1/2"	3C	3C	1000000000	1000000000	4	1/2"	3C	1000000000
5	1/2"	3C	3C	1000000000	1000000000	5	1/2"	3C	1000000000
6	1/2"	3C	3C	1000000000	1000000000	6	1/2"	3C	1000000000
7	1/2"	3C	3C	1000000000	1000000000	7	1/2"	3C	1000000000
8	1/2"	3C	3C	1000000000	1000000000	8	1/2"	3C	1000000000
9	1/2"	3C	3C	1000000000	1000000000	9	1/2"	3C	1000000000
10	1/2"	3C	3C	1000000000	1000000000	10	1/2"	3C	1000000000
11	1/2"	3C	3C	1000000000	1000000000	11	1/2"	3C	1000000000
12	1/2"	3C	3C	1000000000	1000000000	12	1/2"	3C	1000000000
13	1/2"	3C	3C	1000000000	1000000000	13	1/2"	3C	1000000000
14	1/2"	3C	3C	1000000000	1000000000	14	1/2"	3C	1000000000
15	1/2"	3C	3C	1000000000	1000000000	15	1/2"	3C	1000000000
16	1/2"	3C	3C	1000000000	1000000000	16	1/2"	3C	1000000000
17	1/2"	3C	3C	1000000000	1000000000	17	1/2"	3C	1000000000
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19	1/2"	3C	3C	1000000000	1000000000	19	1/2"	3C	1000000000
20	1/2"	3C	3C	1000000000	1000000000	20	1/2"	3C	1000000000
21	1/2"	3C	3C	1000000000	1000000000	21	1/2"	3C	1000000000
22	1/2"	3C	3C	1000000000	1000000000	22	1/2"	3C	1000000000
23	1/2"	3C	3C	1000000000	1000000000	23	1/2"	3C	1000000000
24	1/2"	3C	3C	1000000000	1000000000	24	1/2"	3C	1000000000
25	1/2"	3C	3C	1000000000	1000000000	25	1/2"	3C	1000000000
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28	1/2"	3C	3C	1000000000	1000000000	28	1/2"	3C	1000000000
29	1/2"	3C	3C	1000000000	1000000000	29	1/2"	3C	1000000000
30	1/2"	3C	3C	1000000000	1000000000	30	1/2"	3C	1000000000

For Continuation See Sheet T-42818A



Eastern Electricity
 1:500 SCALE 1/4" = 1' MARKS PLAN
 LOCATION: CAMBRIDGE
 SHEET NO. 11
 DATE 11/19/54

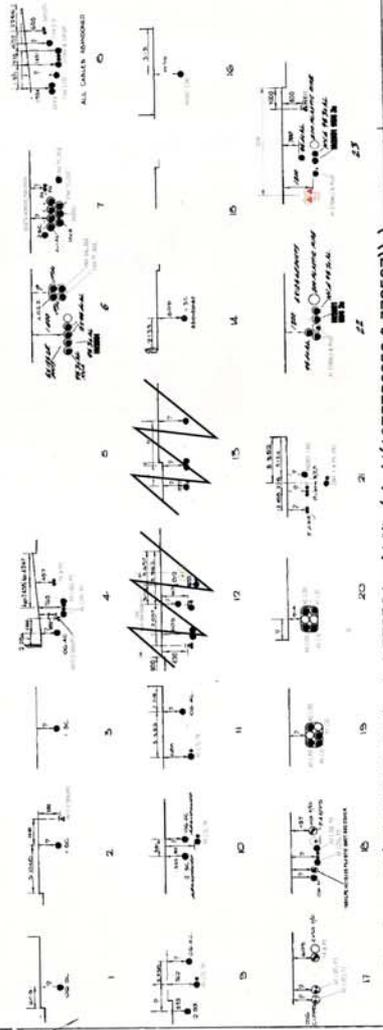


SO

TL4258NEA 1:500 LV

30W PILOTS		11W PILOTS	
No.	Notes	No.	Notes
1	...	1	...
2	...	2	...
3	...	3	...
4	...	4	...
5	...	5	...
6	...	6	...
7	...	7	...
8	...	8	...
9	...	9	...
10	...	10	...
11	...	11	...
12	...	12	...
13	...	13	...
14	...	14	...
15	...	15	...
16	...	16	...
17	...	17	...
18	...	18	...
19	...	19	...
20	...	20	...
21	...	21	...
22	...	22	...
23	...	23	...
24	...	24	...
25	...	25	...
26	...	26	...
27	...	27	...
28	...	28	...
29	...	29	...
30	...	30	...

No.	Item	Quantity	Unit	Notes
1
2
3
4
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29
30



Eastern Electricity

100 SCALE (UP MAIN)

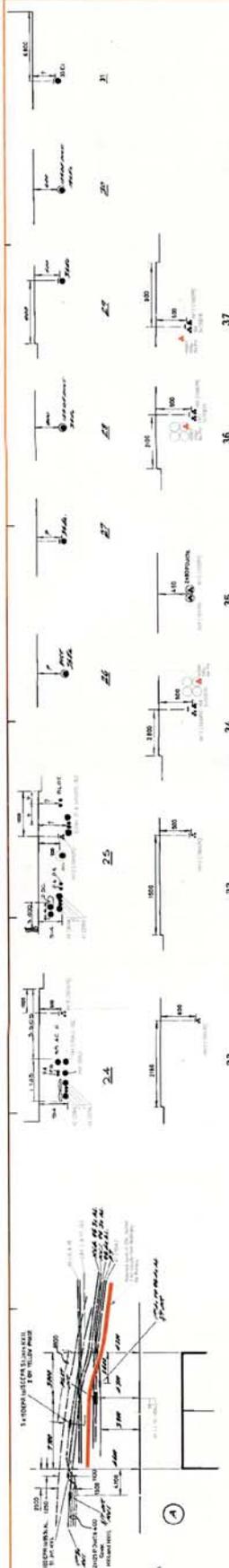
BOOK NO. C.A.M.D.C.C.E.

SHEET NO. 11

SUPPLEMENTARY SHEET NO. 20, 2002/20

DATE

Supplemental (TL42595EAS - Migrated - 378564 - grid-tie-(gis-id(1073786252-0-378567)))



Eastern Electricity

SCALE: _____

LOCATION: **CANBERRA**

SHEET NO: _____

SUPPLEMENTARY SHEET NO: _____

DESIGNED BY: _____

DRAWN BY: _____

CHECKED BY: _____

APPROVED BY: _____

DATE: _____

Supplemental(TL4259SEA.S Migrated 378564_grid_tile:(gis_id(1073786252,0,378587)))

TL4259 SEB

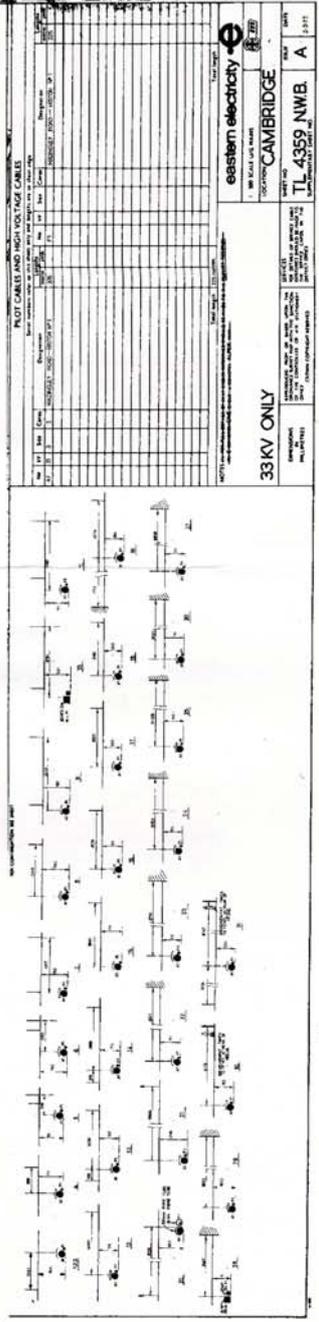
HIGH VOLTAGE CABLES & PILES		LOW VOLTAGE CABLES & PILES	
No.	Size	No.	Size
1	1/2"	1	1/2"
2	3/4"	2	3/4"
3	1"	3	1"
4	1 1/4"	4	1 1/4"
5	1 1/2"	5	1 1/2"
6	1 3/4"	6	1 3/4"
7	2"	7	2"
8	2 1/4"	8	2 1/4"
9	2 1/2"	9	2 1/2"
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155	39"	155	39"
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194	48 3/4"	194	48 3/4"
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196	49 1/4"	196	49 1/4"
197	49 1/2"	197	49 1/2"
198	49 3/4"	198	49 3/4"
199	50"	199	50"

HIGH VOLTAGE CABLES & PILES		LOW VOLTAGE CABLES & PILES	
No.	Size	No.	Size
1	1/2"	1	1/2"
2	3/4"	2	3/4"
3	1"	3	1"
4	1 1/4"	4	1 1/4"
5	1 1/2"	5	1 1/2"
6	1 3/4"	6	1 3/4"
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13	3 1/2"	13	3 1/2"
14	3 3/4"	14	3 3/4"
15	4"	15	4"
16	4 1/4"	16	4 1/4"
17	4 1/2"	17	4 1/2"
18	4 3/4"	18	4 3/4"
19	5"	19	5"
20	5 1/4"	20	5 1/4"
21	5 1/2"	21	5 1/2"
22	5 3/4"	22	5 3/4"
23	6"	23	6"
24	6 1/4"	24	6 1/4"
25	6 1/2"	25	6 1/2"
26	6 3/4"	26	6 3/4"
27	7"	27	7"
28	7 1/4"	28	7 1/4"
29	7 1/2"	29	7 1/2"
30	7 3/4"	30	7 3/4"
31	8"	31	8"
32	8 1/4"	32	8 1/4"
33	8 1/2"	33	8 1/2"
34	8 3/4"	34	8 3/4"
35	9"	35	9"
36	9 1/4"	36	9 1/4"
37	9 1/2"	37	9 1/2"
38	9 3/4"	38	9 3/4"
39	10"	39	10"
40	10 1/4"	40	10 1/4"
41	10 1/2"	41	10 1/2"
42	10 3/4"	42	10 3/4"
43	11"	43	11"
44	11 1/4"	44	11 1/4"
45	11 1/2"	45	11 1/2"
46	11 3/4"	46	11 3/4"
47	12"	47	12"
48	12 1/4"	48	12 1/4"
49	12 1/2"	49	12 1/2"
50	12 3/4"	50	12 3/4"
51	13"	51	13"
52	13 1/4"	52	13 1/4"
53	13 1/2"	53	13 1/2"
54	13 3/4"	54	13 3/4"
55	14"	55	14"
56	14 1/4"	56	14 1/4"
57	14 1/2"	57	14 1/2"
58	14 3/4"	58	14 3/4"
59	15"	59	15"
60	15 1/4"	60	15 1/4"
61	15 1/2"	61	15 1/2"
62	15 3/4"	62	15 3/4"
63	16"	63	16"
64	16 1/4"	64	16 1/4"
65	16 1/2"	65	16 1/2"
66	16 3/4"	66	16 3/4"
67	17"	67	17"
68	17 1/4"	68	17 1/4"
69	17 1/2"	69	17 1/2"
70	17 3/4"	70	17 3/4"
71	18"	71	18"
72	18 1/4"	72	18 1/4"
73	18 1/2"	73	18 1/2"
74	18 3/4"	74	18 3/4"
75	19"	75	19"
76	19 1/4"	76	19 1/4"
77	19 1/2"	77	19 1/2"
78	19 3/4"	78	19 3/4"
79	20"	79	20"
80	20 1/4"	80	20 1/4"
81	20 1/2"	81	20 1/2"
82	20 3/4"	82	20 3/4"
83	21"	83	21"
84	21 1/4"	84	21 1/4"
85	21 1/2"	85	21 1/2"
86	21 3/4"	86	21 3/4"
87	22"	87	22"
88	22 1/4"	88	22 1/4"
89	22 1/2"	89	22 1/2"
90	22 3/4"	90	22 3/4"
91	23"	91	23"
92	23 1/4"	92	23 1/4"
93	23 1/2"	93	23 1/2"
94	23 3/4"	94	23 3/4"
95	24"	95	24"
96	24 1/4"	96	24 1/4"
97	24 1/2"	97	24 1/2"
98	24 3/4"	98	24 3/4"
99	25"	99	25"
100	25 1/4"	100	25 1/4"
101	25 1/2"	101	25 1/2"
102	25 3/4"	102	25 3/4"
103	26"	103	26"
104	26 1/4"	104	26 1/4"
105	26 1/2"	105	26 1/2"
106	26 3/4"	106	26 3/4"
107	27"	107	27"
108	27 1/4"	108	27 1/4"
109	27 1/2"	109	27 1/2"
110	27 3/4"	110	27 3/4"
11			

50

TL4359NWB 1:500 33kv

TL 4359NWB



33KV ONLY

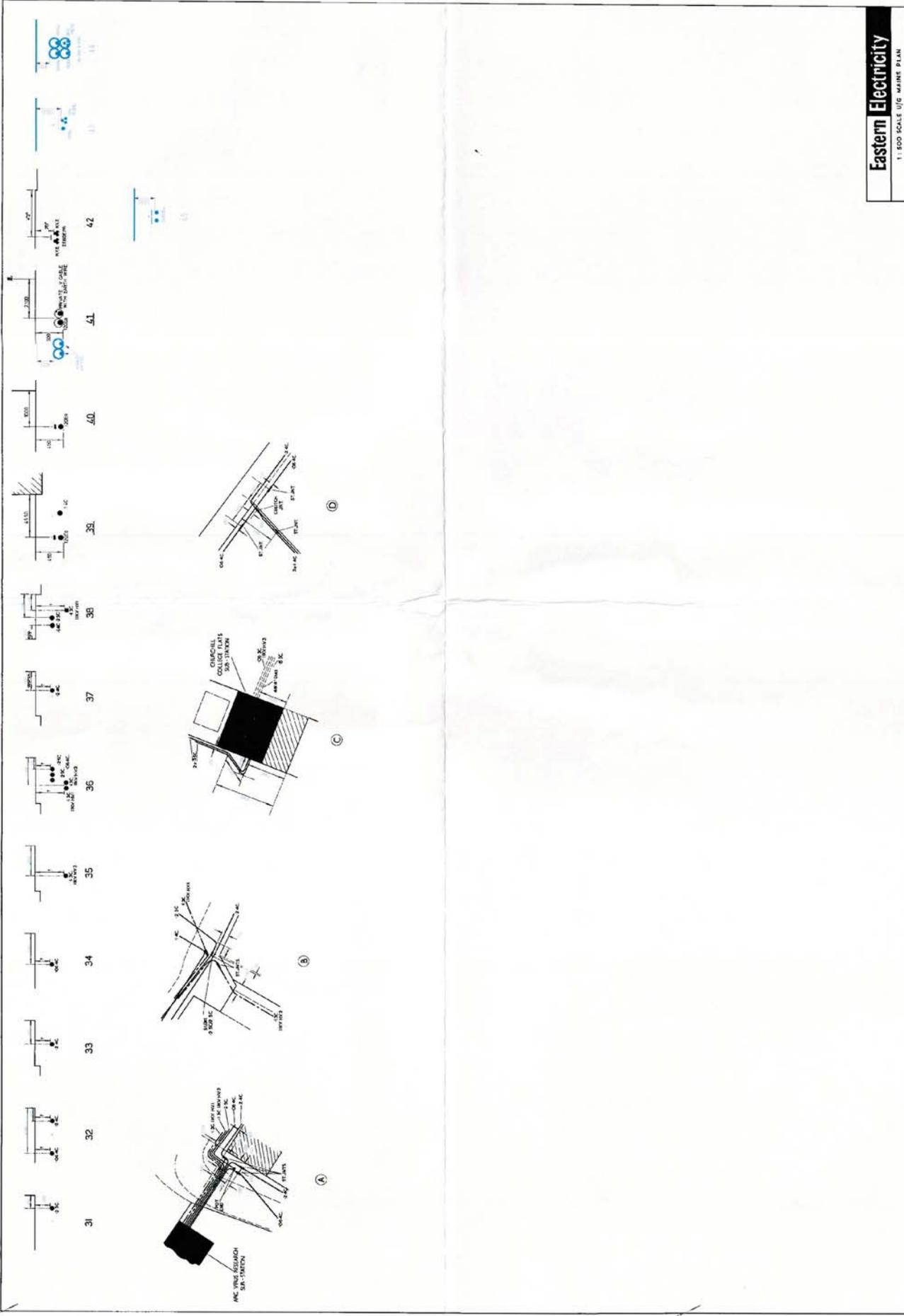
eastern electricity

1000000-CAMBRIDGE

TL 4359 N.W.B.

DATE: 1-3-91

A



Eastern Electricity
 1:800 SCALE U/G MAIN PLAN

LOCATION	CAMBRIDGE
SHEET NO.	7420200001
ISSUE	3
DATE	04/20/20

SERVICES
 For details of Services, please refer to the Service Schedule in the Contract Documents.
 For details of Services, please refer to the Service Schedule in the Contract Documents.

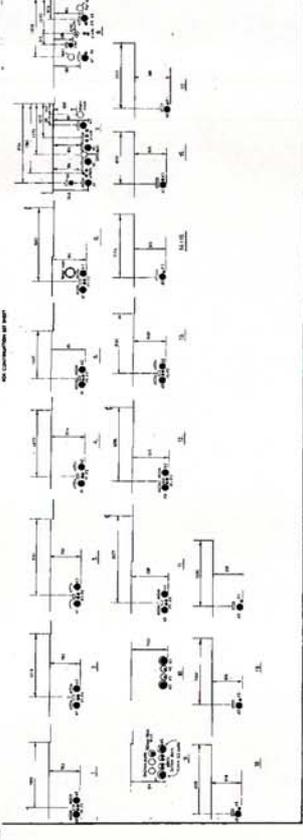
OS

TL4359SEB 1500 33KV

TL 4359 SEB

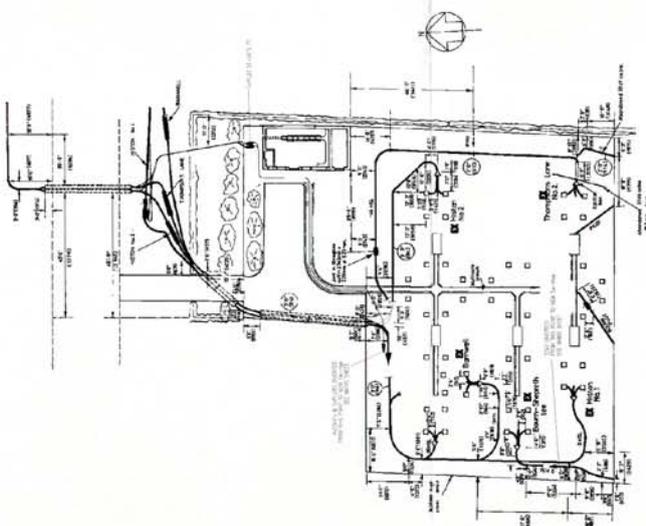
PLOT CABLES AND HIGH VOLTAGE CABLES
 This section is to be filled in by the contractor. It is to be submitted with the bid.

No.	Size	Material	Quantity	Remarks
1	1/2"	1/2" x 1/2" x 1/2" x 1/2"	100	1/2" x 1/2" x 1/2" x 1/2"
2	3/4"	3/4" x 3/4" x 3/4" x 3/4"	100	3/4" x 3/4" x 3/4" x 3/4"
3	1"	1" x 1" x 1" x 1"	100	1" x 1" x 1" x 1"
4	1 1/2"	1 1/2" x 1 1/2" x 1 1/2" x 1 1/2"	100	1 1/2" x 1 1/2" x 1 1/2" x 1 1/2"
5	2"	2" x 2" x 2" x 2"	100	2" x 2" x 2" x 2"
6	2 1/2"	2 1/2" x 2 1/2" x 2 1/2" x 2 1/2"	100	2 1/2" x 2 1/2" x 2 1/2" x 2 1/2"
7	3"	3" x 3" x 3" x 3"	100	3" x 3" x 3" x 3"
8	3 1/2"	3 1/2" x 3 1/2" x 3 1/2" x 3 1/2"	100	3 1/2" x 3 1/2" x 3 1/2" x 3 1/2"
9	4"	4" x 4" x 4" x 4"	100	4" x 4" x 4" x 4"
10	4 1/2"	4 1/2" x 4 1/2" x 4 1/2" x 4 1/2"	100	4 1/2" x 4 1/2" x 4 1/2" x 4 1/2"
11	5"	5" x 5" x 5" x 5"	100	5" x 5" x 5" x 5"
12	5 1/2"	5 1/2" x 5 1/2" x 5 1/2" x 5 1/2"	100	5 1/2" x 5 1/2" x 5 1/2" x 5 1/2"
13	6"	6" x 6" x 6" x 6"	100	6" x 6" x 6" x 6"
14	6 1/2"	6 1/2" x 6 1/2" x 6 1/2" x 6 1/2"	100	6 1/2" x 6 1/2" x 6 1/2" x 6 1/2"
15	7"	7" x 7" x 7" x 7"	100	7" x 7" x 7" x 7"
16	7 1/2"	7 1/2" x 7 1/2" x 7 1/2" x 7 1/2"	100	7 1/2" x 7 1/2" x 7 1/2" x 7 1/2"
17	8"	8" x 8" x 8" x 8"	100	8" x 8" x 8" x 8"
18	8 1/2"	8 1/2" x 8 1/2" x 8 1/2" x 8 1/2"	100	8 1/2" x 8 1/2" x 8 1/2" x 8 1/2"
19	9"	9" x 9" x 9" x 9"	100	9" x 9" x 9" x 9"
20	9 1/2"	9 1/2" x 9 1/2" x 9 1/2" x 9 1/2"	100	9 1/2" x 9 1/2" x 9 1/2" x 9 1/2"
21	10"	10" x 10" x 10" x 10"	100	10" x 10" x 10" x 10"
22	10 1/2"	10 1/2" x 10 1/2" x 10 1/2" x 10 1/2"	100	10 1/2" x 10 1/2" x 10 1/2" x 10 1/2"
23	11"	11" x 11" x 11" x 11"	100	11" x 11" x 11" x 11"
24	11 1/2"	11 1/2" x 11 1/2" x 11 1/2" x 11 1/2"	100	11 1/2" x 11 1/2" x 11 1/2" x 11 1/2"
25	12"	12" x 12" x 12" x 12"	100	12" x 12" x 12" x 12"
26	12 1/2"	12 1/2" x 12 1/2" x 12 1/2" x 12 1/2"	100	12 1/2" x 12 1/2" x 12 1/2" x 12 1/2"
27	13"	13" x 13" x 13" x 13"	100	13" x 13" x 13" x 13"
28	13 1/2"	13 1/2" x 13 1/2" x 13 1/2" x 13 1/2"	100	13 1/2" x 13 1/2" x 13 1/2" x 13 1/2"
29	14"	14" x 14" x 14" x 14"	100	14" x 14" x 14" x 14"
30	14 1/2"	14 1/2" x 14 1/2" x 14 1/2" x 14 1/2"	100	14 1/2" x 14 1/2" x 14 1/2" x 14 1/2"
31	15"	15" x 15" x 15" x 15"	100	15" x 15" x 15" x 15"
32	15 1/2"	15 1/2" x 15 1/2" x 15 1/2" x 15 1/2"	100	15 1/2" x 15 1/2" x 15 1/2" x 15 1/2"
33	16"	16" x 16" x 16" x 16"	100	16" x 16" x 16" x 16"
34	16 1/2"	16 1/2" x 16 1/2" x 16 1/2" x 16 1/2"	100	16 1/2" x 16 1/2" x 16 1/2" x 16 1/2"
35	17"	17" x 17" x 17" x 17"	100	17" x 17" x 17" x 17"
36	17 1/2"	17 1/2" x 17 1/2" x 17 1/2" x 17 1/2"	100	17 1/2" x 17 1/2" x 17 1/2" x 17 1/2"
37	18"	18" x 18" x 18" x 18"	100	18" x 18" x 18" x 18"
38	18 1/2"	18 1/2" x 18 1/2" x 18 1/2" x 18 1/2"	100	18 1/2" x 18 1/2" x 18 1/2" x 18 1/2"
39	19"	19" x 19" x 19" x 19"	100	19" x 19" x 19" x 19"
40	19 1/2"	19 1/2" x 19 1/2" x 19 1/2" x 19 1/2"	100	19 1/2" x 19 1/2" x 19 1/2" x 19 1/2"
41	20"	20" x 20" x 20" x 20"	100	20" x 20" x 20" x 20"
42	20 1/2"	20 1/2" x 20 1/2" x 20 1/2" x 20 1/2"	100	20 1/2" x 20 1/2" x 20 1/2" x 20 1/2"
43	21"	21" x 21" x 21" x 21"	100	21" x 21" x 21" x 21"
44	21 1/2"	21 1/2" x 21 1/2" x 21 1/2" x 21 1/2"	100	21 1/2" x 21 1/2" x 21 1/2" x 21 1/2"
45	22"	22" x 22" x 22" x 22"	100	22" x 22" x 22" x 22"
46	22 1/2"	22 1/2" x 22 1/2" x 22 1/2" x 22 1/2"	100	22 1/2" x 22 1/2" x 22 1/2" x 22 1/2"
47	23"	23" x 23" x 23" x 23"	100	23" x 23" x 23" x 23"
48	23 1/2"	23 1/2" x 23 1/2" x 23 1/2" x 23 1/2"	100	23 1/2" x 23 1/2" x 23 1/2" x 23 1/2"
49	24"	24" x 24" x 24" x 24"	100	24" x 24" x 24" x 24"
50	24 1/2"	24 1/2" x 24 1/2" x 24 1/2" x 24 1/2"	100	24 1/2" x 24 1/2" x 24 1/2" x 24 1/2"
51	25"	25" x 25" x 25" x 25"	100	25" x 25" x 25" x 25"
52	25 1/2"	25 1/2" x 25 1/2" x 25 1/2" x 25 1/2"	100	25 1/2" x 25 1/2" x 25 1/2" x 25 1/2"
53	26"	26" x 26" x 26" x 26"	100	26" x 26" x 26" x 26"
54	26 1/2"	26 1/2" x 26 1/2" x 26 1/2" x 26 1/2"	100	26 1/2" x 26 1/2" x 26 1/2" x 26 1/2"
55	27"	27" x 27" x 27" x 27"	100	27" x 27" x 27" x 27"
56	27 1/2"	27 1/2" x 27 1/2" x 27 1/2" x 27 1/2"	100	27 1/2" x 27 1/2" x 27 1/2" x 27 1/2"
57	28"	28" x 28" x 28" x 28"	100	28" x 28" x 28" x 28"
58	28 1/2"	28 1/2" x 28 1/2" x 28 1/2" x 28 1/2"	100	28 1/2" x 28 1/2" x 28 1/2" x 28 1/2"
59	29"	29" x 29" x 29" x 29"	100	29" x 29" x 29" x 29"
60	29 1/2"	29 1/2" x 29 1/2" x 29 1/2" x 29 1/2"	100	29 1/2" x 29 1/2" x 29 1/2" x 29 1/2"
61	30"	30" x 30" x 30" x 30"	100	30" x 30" x 30" x 30"
62	30 1/2"	30 1/2" x 30 1/2" x 30 1/2" x 30 1/2"	100	30 1/2" x 30 1/2" x 30 1/2" x 30 1/2"
63	31"	31" x 31" x 31" x 31"	100	31" x 31" x 31" x 31"
64	31 1/2"	31 1/2" x 31 1/2" x 31 1/2" x 31 1/2"	100	31 1/2" x 31 1/2" x 31 1/2" x 31 1/2"
65	32"	32" x 32" x 32" x 32"	100	32" x 32" x 32" x 32"
66	32 1/2"	32 1/2" x 32 1/2" x 32 1/2" x 32 1/2"	100	32 1/2" x 32 1/2" x 32 1/2" x 32 1/2"
67	33"	33" x 33" x 33" x 33"	100	33" x 33" x 33" x 33"
68	33 1/2"	33 1/2" x 33 1/2" x 33 1/2" x 33 1/2"	100	33 1/2" x 33 1/2" x 33 1/2" x 33 1/2"
69	34"	34" x 34" x 34" x 34"	100	34" x 34" x 34" x 34"
70	34 1/2"	34 1/2" x 34 1/2" x 34 1/2" x 34 1/2"	100	34 1/2" x 34 1/2" x 34 1/2" x 34 1/2"
71	35"	35" x 35" x 35" x 35"	100	35" x 35" x 35" x 35"
72	35 1/2"	35 1/2" x 35 1/2" x 35 1/2" x 35 1/2"	100	35 1/2" x 35 1/2" x 35 1/2" x 35 1/2"
73	36"	36" x 36" x 36" x 36"	100	36" x 36" x 36" x 36"
74	36 1/2"	36 1/2" x 36 1/2" x 36 1/2" x 36 1/2"	100	36 1/2" x 36 1/2" x 36 1/2" x 36 1/2"
75	37"	37" x 37" x 37" x 37"	100	37" x 37" x 37" x 37"
76	37 1/2"	37 1/2" x 37 1/2" x 37 1/2" x 37 1/2"	100	37 1/2" x 37 1/2" x 37 1/2" x 37 1/2"
77	38"	38" x 38" x 38" x 38"	100	38" x 38" x 38" x 38"
78	38 1/2"	38 1/2" x 38 1/2" x 38 1/2" x 38 1/2"	100	38 1/2" x 38 1/2" x 38 1/2" x 38 1/2"
79	39"	39" x 39" x 39" x 39"	100	39" x 39" x 39" x 39"
80	39 1/2"	39 1/2" x 39 1/2" x 39 1/2" x 39 1/2"	100	39 1/2" x 39 1/2" x 39 1/2" x 39 1/2"
81	40"	40" x 40" x 40" x 40"	100	40" x 40" x 40" x 40"
82	40 1/2"	40 1/2" x 40 1/2" x 40 1/2" x 40 1/2"	100	40 1/2" x 40 1/2" x 40 1/2" x 40 1/2"
83	41"	41" x 41" x 41" x 41"	100	41" x 41" x 41" x 41"
84	41 1/2"	41 1/2" x 41 1/2" x 41 1/2" x 41 1/2"	100	41 1/2" x 41 1/2" x 41 1/2" x 41 1/2"
85	42"	42" x 42" x 42" x 42"	100	42" x 42" x 42" x 42"
86	42 1/2"	42 1/2" x 42 1/2" x 42 1/2" x 42 1/2"	100	42 1/2" x 42 1/2" x 42 1/2" x 42 1/2"
87	43"	43" x 43" x 43" x 43"	100	43" x 43" x 43" x 43"
88	43 1/2"	43 1/2" x 43 1/2" x 43 1/2" x 43 1/2"	100	43 1/2" x 43 1/2" x 43 1/2" x 43 1/2"
89	44"	44" x 44" x 44" x 44"	100	44" x 44" x 44" x 44"
90	44 1/2"	44 1/2" x 44 1/2" x 44 1/2" x 44 1/2"	100	44 1/2" x 44 1/2" x 44 1/2" x 44 1/2"
91	45"	45" x 45" x 45" x 45"	100	45" x 45" x 45" x 45"
92	45 1/2"	45 1/2" x 45 1/2" x 45 1/2" x 45 1/2"	100	45 1/2" x 45 1/2" x 45 1/2" x 45 1/2"
93	46"	46" x 46" x 46" x 46"	100	46" x 46" x 46" x 46"
94	46 1/2"	46 1/2" x 46 1/2" x 46 1/2" x 46 1/2"	100	46 1/2" x 46 1/2" x 46 1/2" x 46 1/2"
95	47"	47" x 47" x 47" x 47"	100	47" x 47" x 47" x 47"
96	47 1/2"	47 1/2" x 47 1/2" x 47 1/2" x 47 1/2"	100	47 1/2" x 47 1/2" x 47 1/2" x 47 1/2"
97	48"	48" x 48" x 48" x 48"	100	48" x 48" x 48" x 48"
98	48 1/2"	48 1/2" x 48 1/2" x 48 1/2" x 48 1/2"	100	48 1/2" x 48 1/2" x 48 1/2" x 48 1/2"
99	49"	49" x 49" x 49" x 49"	100	49" x 49" x 49" x 49"
100	49 1/2"	49 1/2" x 49 1/2" x 49 1/2" x 49 1/2"	100	49 1/2" x 49 1/2" x 49 1/2" x 49 1/2"



TL 4359 SEB

eastern electricity
 1000 Cambridge
 TL 4359 SEB A
 1/16



eastern electricity 

SCALE: 1/4" = 1'-0"
MADINGLEY RD S/S
TL 4259 SEA/1 A
 DATE: 2004/08

DESIGNED BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 DRAWN BY: [Name]

SO

TL4259SEB 1:500 33KV

PILOT CABLES AND HIGH VOLTAGE CABLES

HIGH VOLTAGE CABLES & PILOTS	
NO.	DESCRIPTION
1	
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PILOT CABLES AND HIGH VOLTAGE CABLES	
NO.	DESCRIPTION
1	
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33KV ONLY

Eastam Electricity

MADINGLEY

TL 4259 SEB A



EASTERN ELECTRICITY

DATE: 02/20/2019

TIME: 10:00 AM

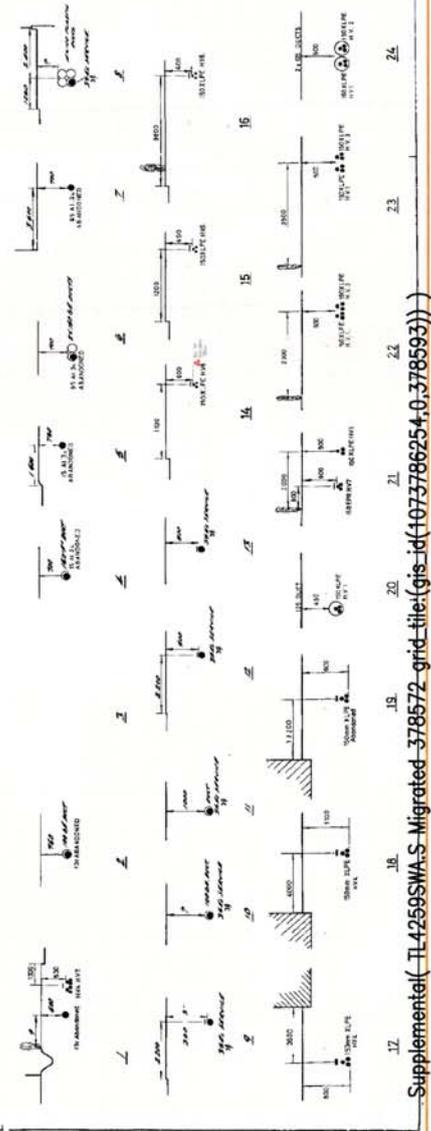
BY: J. J. [unreadable]

PROJECT NO.: [unreadable]

APPROVED FOR THE BOARD OF DIRECTORS
 SUPERVISOR OF THE UTILITY DIVISION
 EASTERN ELECTRICITY

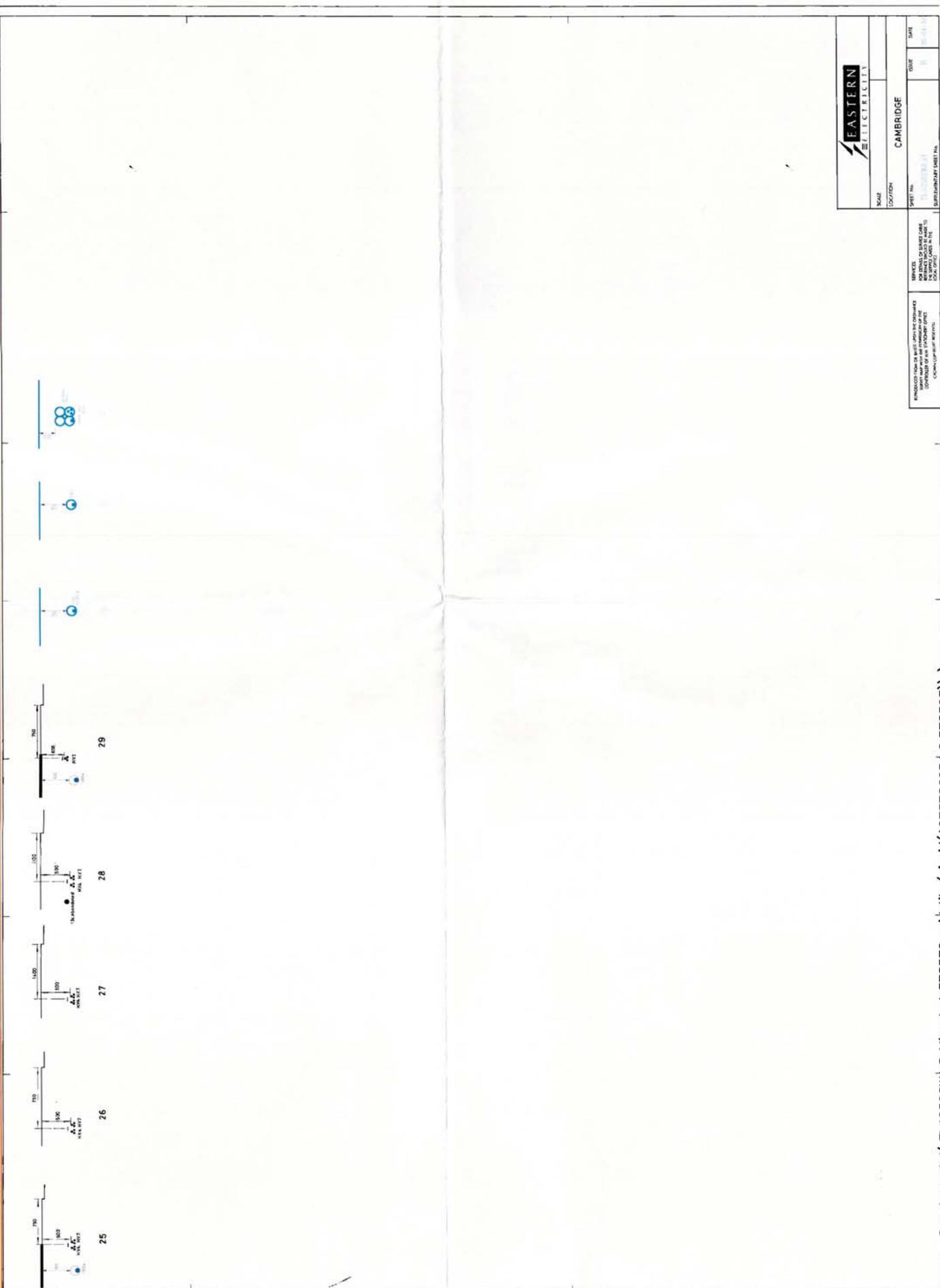
FOR CONTRACTOR USE ONLY - SEE SHEET 378572 FOR DETAILS

No.	Size	Code	Quantity	Length	No. 1/4"	No. 1/2"	No. 3/4"	No. 1"	Notes
1	1/4"	1	1	100'					1/4" RIGID PVC
2	1/2"	2	1	100'					1/2" RIGID PVC
3	3/4"	3	1	100'					3/4" RIGID PVC
4	1"	4	1	100'					1" RIGID PVC
5	1/4"	5	1	100'					1/4" RIGID PVC
6	1/2"	6	1	100'					1/2" RIGID PVC
7	3/4"	7	1	100'					3/4" RIGID PVC
8	1"	8	1	100'					1" RIGID PVC
9	1/4"	9	1	100'					1/4" RIGID PVC
10	1/2"	10	1	100'					1/2" RIGID PVC
11	3/4"	11	1	100'					3/4" RIGID PVC
12	1"	12	1	100'					1" RIGID PVC
13	1/4"	13	1	100'					1/4" RIGID PVC
14	1/2"	14	1	100'					1/2" RIGID PVC
15	3/4"	15	1	100'					3/4" RIGID PVC
16	1"	16	1	100'					1" RIGID PVC
17	1/4"	17	1	100'					1/4" RIGID PVC
18	1/2"	18	1	100'					1/2" RIGID PVC
19	3/4"	19	1	100'					3/4" RIGID PVC
20	1"	20	1	100'					1" RIGID PVC
21	1/4"	21	1	100'					1/4" RIGID PVC
22	1/2"	22	1	100'					1/2" RIGID PVC
23	3/4"	23	1	100'					3/4" RIGID PVC
24	1"	24	1	100'					1" RIGID PVC



Eastern Electricity
 1. NO. 1041 (10) NAME
 LOCATION **CANSA/DGE**
 SHEET NO. **378572**
 SUPPLEMENTARY SHEET NO.

Supplemental (TL4259SMA-S-Migrated-378572-grid-tile:(gts-id(1073786254-0-378593)))



EASTERN ELECTRICITY	
NAME	CAMBRIDGE
LOCATION	
SHEET No.	
DATE	
TOUR	
SUPERVISORY LABEL No.	

REVISED TO BE USED IN THE ORDINARY COURSE OF BUSINESS AND NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.

PILOT CABLES AND HIGH VOLTAGE CABLES

No.	Line	Code	Designation	Length	Notes
1	10000	100	10000	10000	10000
2	10000	100	10000	10000	10000
3	10000	100	10000	10000	10000
4	10000	100	10000	10000	10000
5	10000	100	10000	10000	10000
6	10000	100	10000	10000	10000
7	10000	100	10000	10000	10000
8	10000	100	10000	10000	10000
9	10000	100	10000	10000	10000
10	10000	100	10000	10000	10000
11	10000	100	10000	10000	10000
12	10000	100	10000	10000	10000
13	10000	100	10000	10000	10000
14	10000	100	10000	10000	10000
15	10000	100	10000	10000	10000
16	10000	100	10000	10000	10000
17	10000	100	10000	10000	10000
18	10000	100	10000	10000	10000
19	10000	100	10000	10000	10000
20	10000	100	10000	10000	10000
21	10000	100	10000	10000	10000
22	10000	100	10000	10000	10000
23	10000	100	10000	10000	10000
24	10000	100	10000	10000	10000
25	10000	100	10000	10000	10000
26	10000	100	10000	10000	10000

Eastern Electricity

1. SEE SCALE FOR DIMENSIONS

LOCATION: **CANBERRA**

SHEET NO: **25**

SHEET TOTAL: **26**

DATE: **1958**

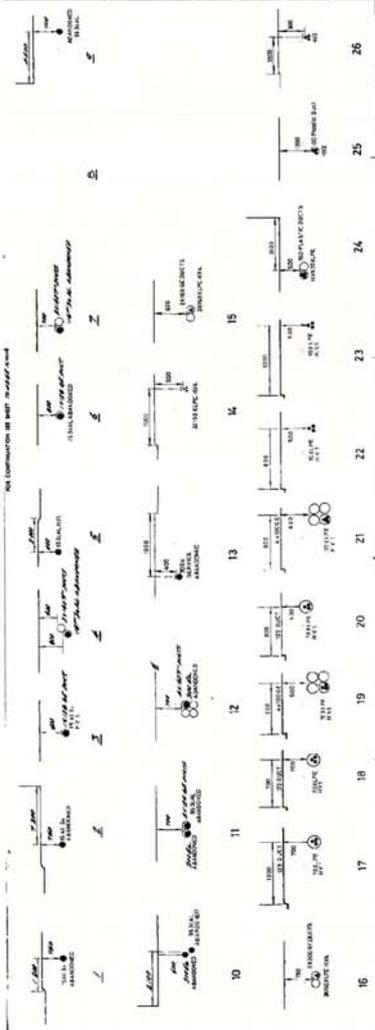
BY: **J. J. KING**

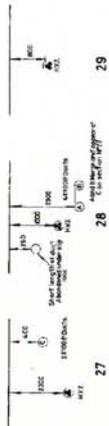
CHECKED BY: **J. J. KING**

APPROVED BY: **J. J. KING**

PROJECT NO: **10000**

SCALE: **1:1000**





EASTERN ELECTRICITY	
W.A.P.	CAMBRIDGE
SECTION	
SHEET No.	TL 4259 SWB1
DATE	

SERVICES FOR WHICH THE WORK IS TO BE DONE SHALL BE MARKED BY THE CONTRACTOR IN THE WORKSHEET AND IN THE SERVICE SHEET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SERVICES AND FOR THE REPAIR OF ANY DAMAGE TO THE SERVICES.

SO

TL4359SWB 1:500 33kv

TL 4359 SWB

PILOT CABLES AND HIGH VOLTAGE CABLES

NO.	TYPE	SIZE	LENGTH	DATE	REMARKS
1	33 KV	3"	1000'	10/10/10	PILOT CABLE
2	33 KV	3"	1000'	10/10/10	PILOT CABLE
3	33 KV	3"	1000'	10/10/10	PILOT CABLE
4	33 KV	3"	1000'	10/10/10	PILOT CABLE
5	33 KV	3"	1000'	10/10/10	PILOT CABLE
6	33 KV	3"	1000'	10/10/10	PILOT CABLE
7	33 KV	3"	1000'	10/10/10	PILOT CABLE
8	33 KV	3"	1000'	10/10/10	PILOT CABLE
9	33 KV	3"	1000'	10/10/10	PILOT CABLE
10	33 KV	3"	1000'	10/10/10	PILOT CABLE
11	33 KV	3"	1000'	10/10/10	PILOT CABLE
12	33 KV	3"	1000'	10/10/10	PILOT CABLE
13	33 KV	3"	1000'	10/10/10	PILOT CABLE
14	33 KV	3"	1000'	10/10/10	PILOT CABLE
15	33 KV	3"	1000'	10/10/10	PILOT CABLE
16	33 KV	3"	1000'	10/10/10	PILOT CABLE
17	33 KV	3"	1000'	10/10/10	PILOT CABLE
18	33 KV	3"	1000'	10/10/10	PILOT CABLE
19	33 KV	3"	1000'	10/10/10	PILOT CABLE
20	33 KV	3"	1000'	10/10/10	PILOT CABLE
21	33 KV	3"	1000'	10/10/10	PILOT CABLE
22	33 KV	3"	1000'	10/10/10	PILOT CABLE
23	33 KV	3"	1000'	10/10/10	PILOT CABLE
24	33 KV	3"	1000'	10/10/10	PILOT CABLE
25	33 KV	3"	1000'	10/10/10	PILOT CABLE
26	33 KV	3"	1000'	10/10/10	PILOT CABLE
27	33 KV	3"	1000'	10/10/10	PILOT CABLE
28	33 KV	3"	1000'	10/10/10	PILOT CABLE
29	33 KV	3"	1000'	10/10/10	PILOT CABLE
30	33 KV	3"	1000'	10/10/10	PILOT CABLE

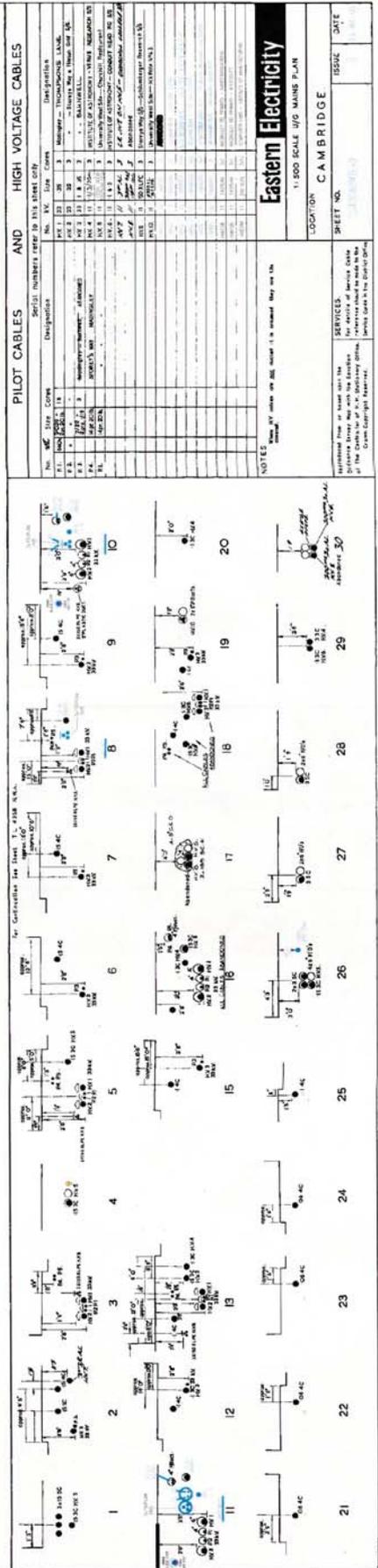
33 KV ONLY

eastern electricity

MADINGLEY

TL 4359 SWB

A



PILOT CABLES AND HIGH VOLTAGE CABLES				
No.	Size	Core	Designation	Serial Numbers refer to this sheet only
1	1/2"	3	WIRELESS SERVICE - AIRBORNE	
2	1/2"	3	WIRELESS SERVICE - AIRBORNE	
3	1/2"	3	WIRELESS SERVICE - AIRBORNE	
4	1/2"	3	WIRELESS SERVICE - AIRBORNE	
5	1/2"	3	WIRELESS SERVICE - AIRBORNE	
6	1/2"	3	WIRELESS SERVICE - AIRBORNE	
7	1/2"	3	WIRELESS SERVICE - AIRBORNE	
8	1/2"	3	WIRELESS SERVICE - AIRBORNE	
9	1/2"	3	WIRELESS SERVICE - AIRBORNE	
10	1/2"	3	WIRELESS SERVICE - AIRBORNE	
11	1/2"	3	WIRELESS SERVICE - AIRBORNE	
12	1/2"	3	WIRELESS SERVICE - AIRBORNE	
13	1/2"	3	WIRELESS SERVICE - AIRBORNE	
14	1/2"	3	WIRELESS SERVICE - AIRBORNE	
15	1/2"	3	WIRELESS SERVICE - AIRBORNE	
16	1/2"	3	WIRELESS SERVICE - AIRBORNE	
17	1/2"	3	WIRELESS SERVICE - AIRBORNE	
18	1/2"	3	WIRELESS SERVICE - AIRBORNE	
19	1/2"	3	WIRELESS SERVICE - AIRBORNE	
20	1/2"	3	WIRELESS SERVICE - AIRBORNE	
21	1/2"	3	WIRELESS SERVICE - AIRBORNE	
22	1/2"	3	WIRELESS SERVICE - AIRBORNE	
23	1/2"	3	WIRELESS SERVICE - AIRBORNE	
24	1/2"	3	WIRELESS SERVICE - AIRBORNE	
25	1/2"	3	WIRELESS SERVICE - AIRBORNE	
26	1/2"	3	WIRELESS SERVICE - AIRBORNE	
27	1/2"	3	WIRELESS SERVICE - AIRBORNE	
28	1/2"	3	WIRELESS SERVICE - AIRBORNE	
29	1/2"	3	WIRELESS SERVICE - AIRBORNE	
30	1/2"	3	WIRELESS SERVICE - AIRBORNE	

Eastern Electricity

11,500 SCALE 1/16" MAINS PLAN

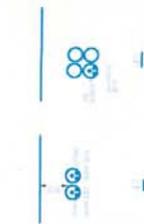
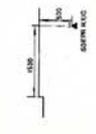
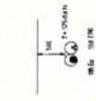
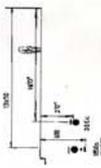
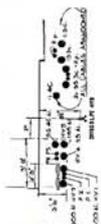
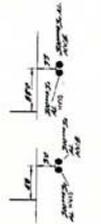
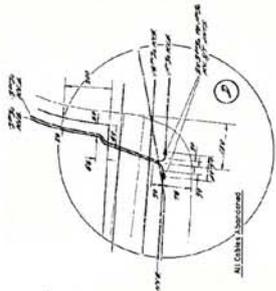
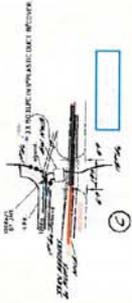
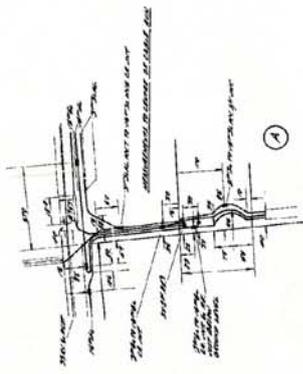
LOCATION: CAMBRIDGE

SHEET NO. 378938

ISSUE DATE

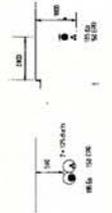
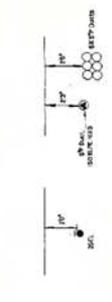
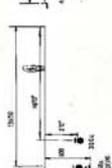
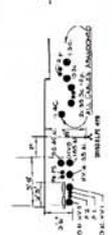
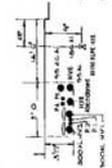
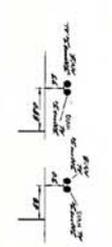
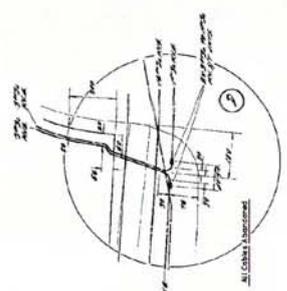
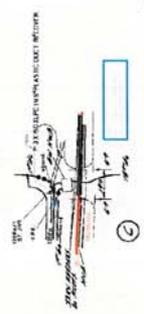
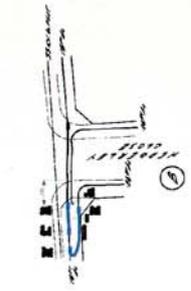
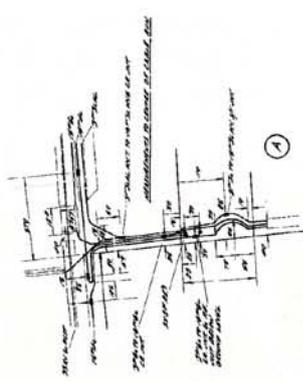
NOTES:
 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE
 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE
 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE

SERVICES:
 For details of Service Order
 at the Cambridge P.O. 378938 Office,
 1000 Cambridge Street, Cambridge, MA 02142



Eastern Electricity	
SCALE	LOCATION
SHEET NO.	DATE
SUPPLEMENTARY SHEET NO.	

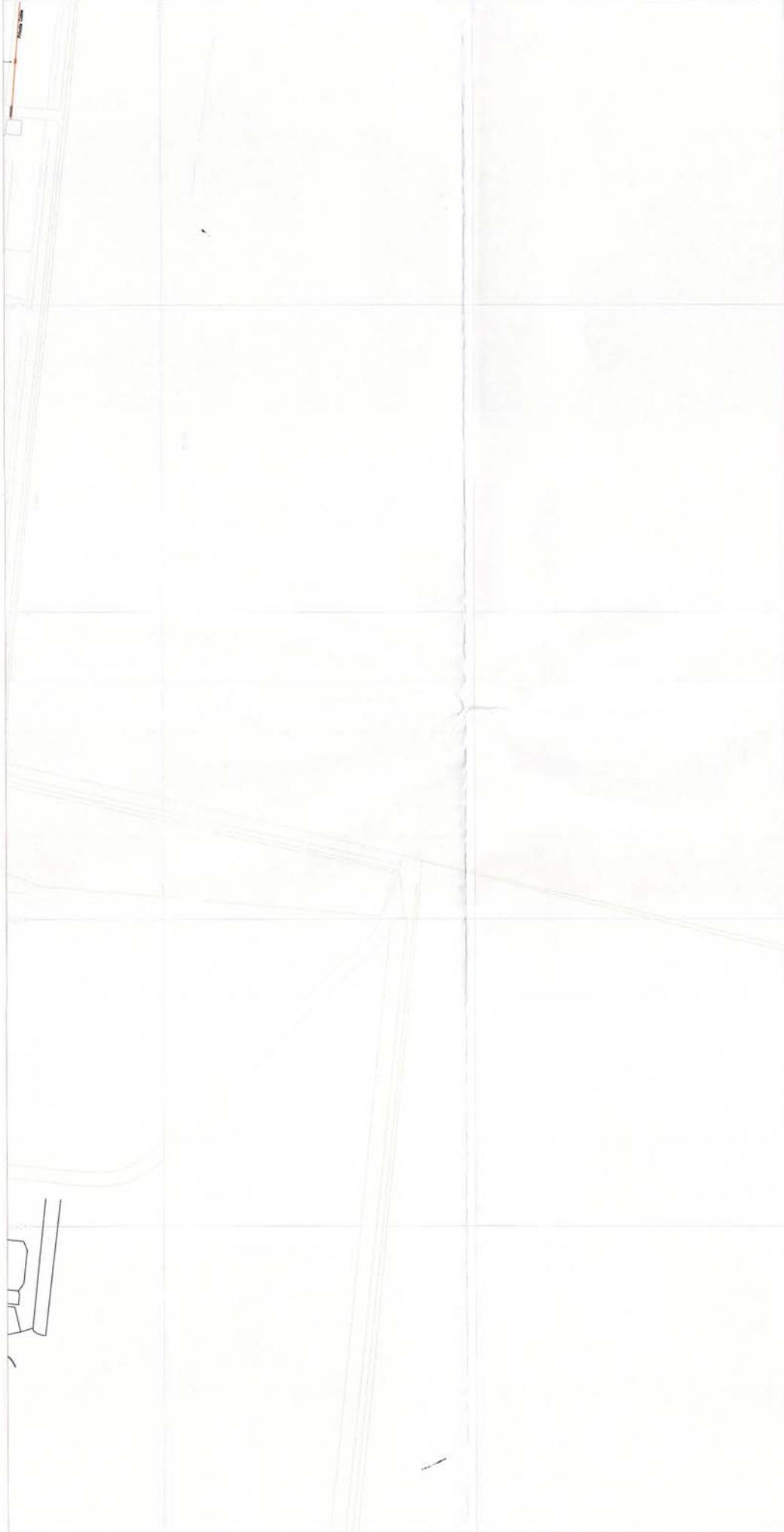
DESIGNED BY: [Name] DRAWN BY: [Name] CHECKED BY: [Name] DATE: [Date]
 PROJECT NO.: [Number] SHEET NO.: [Number] OF [Total]
 LOCATION: [Location] SCALE: [Scale]
 EASTERN ELECTRICITY COMPANY



STATION	DESCRIPTION	SCALE	DATE
31	TRANSFORMER	1:100	10/10/00
32	TRANSFORMER	1:100	10/10/00
33	TRANSFORMER	1:100	10/10/00
34	TRANSFORMER	1:100	10/10/00
35	TRANSFORMER	1:100	10/10/00
36	TRANSFORMER	1:100	10/10/00
37	TRANSFORMER	1:100	10/10/00
38	TRANSFORMER	1:100	10/10/00
39	TRANSFORMER	1:100	10/10/00
40	TRANSFORMER	1:100	10/10/00
41	TRANSFORMER	1:100	10/10/00

Eastern Electricity	
SCALE	LOCATION
SHEET NO.	DATE
SUPPLEMENTARY SHEET NO.	ISSUE

FORWARDED TO THE ENGINEER IN CHARGE OF THE PROJECT FOR HIS REVIEW AND APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE WORK SHOWN ON THIS SHEET.



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) Use 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(CA7) Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HNSO.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for any purpose, including for any special or consequential loss or damage whatsoever, business, loss of use) or any special or consequential loss or damage whatsoever.

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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 please 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.

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 or a probe to ascertain any suitable hand tools.
3. It is the responsibility of the user to make 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, 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 any equipment which may be used to cut or damage cables.
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.

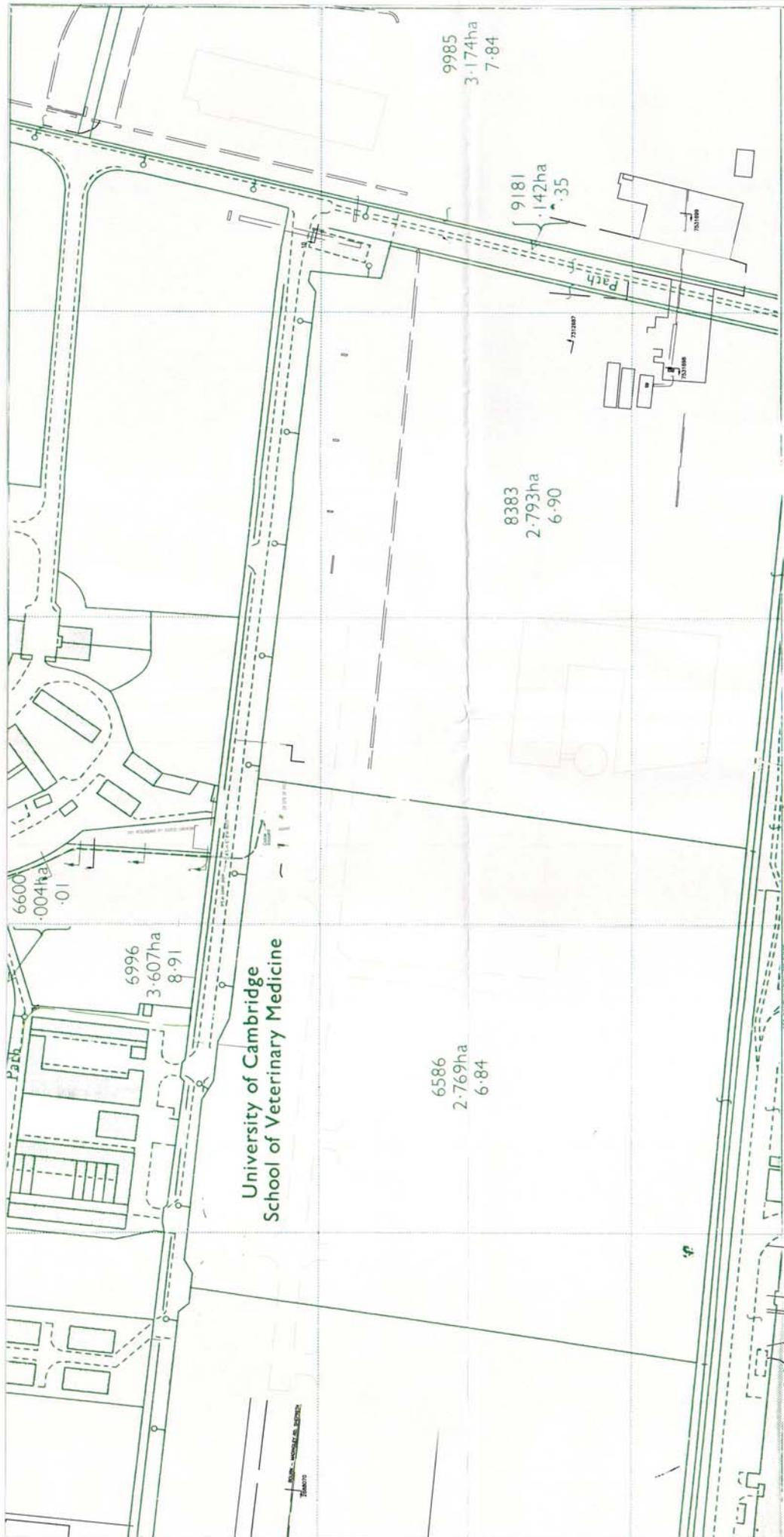
Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu file title_line_1
 Contents of plot menu file title_line_2

Map Centre : TL4258NE



UK Power Networks
 Plot Provision
 Fore Hamlet
 PSWCH
 SUR6X
 Tel 0800 0565 866
 Fax 08701 86782

For details of the symbols shown refer to
<http://www.ukpowernetworks.co.uk/safety-symbols>



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) Do not use a mechanical excavator within 0.5m 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 electrically cables and joints or their protective covers.

IF IN DOUBT - ASK! PHONE 0800 056 5866
 EMERGENCY - PHONE 0800 056 5866
 Phone 0800 788 0780 (24hrs) URGENT!

These basic safety precautions are explained in detail in the HSE booklet, HSG47 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation physical damage to property or for any economic loss (including without limitation business, loss of use) or any special or consequential loss or damage whatsoever.

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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
 1. Check that the Company's apparatus may be located on site and any necessary protection works agreed.

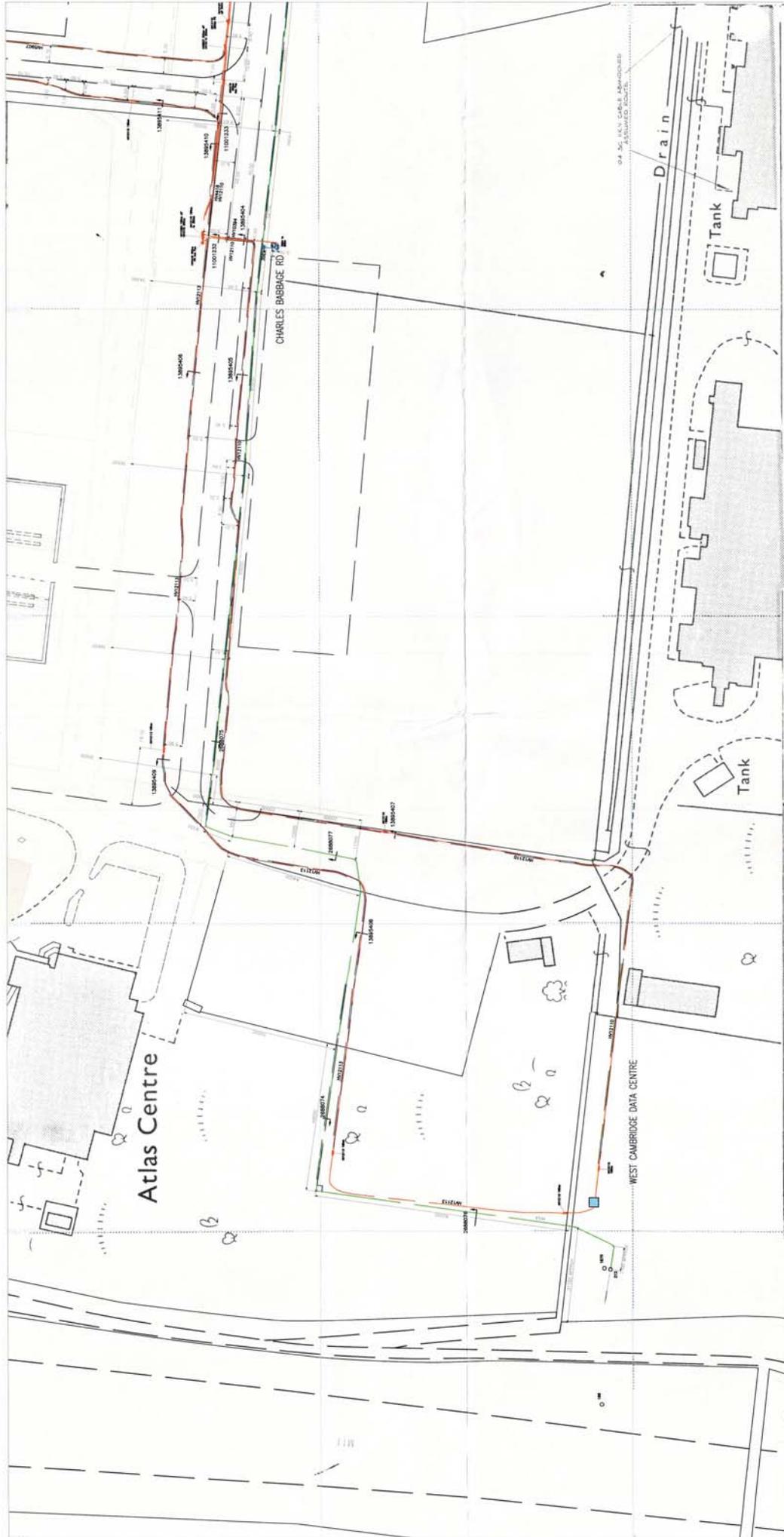
N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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
3. It is essential that the following steps be 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, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. All cables must be treated as being live unless proved otherwise by UK Power Networks.
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.

Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu line title_line_1
 Contents of plot menu line title_line_2
 Map Centre : TL4258NE

UK Power Networks
 Plan Provision
 Fore Horntel
 S1101
 IP3 8AA
 Tel 0800 0565 866
 Fax 08701 963782

For details of the symbols please refer to <http://www.ukpowernetworks.co.uk/safety-emergencies/> or the website <http://www.ukpowernetworks.co.uk/safety-emergencies/>



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) Use 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, HSG63, 'Avoiding Danger from Buried Electricity Cables', a copy of which may be obtained from your supervisor or HSE.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including loss of profit, business, loss of use) or any special or consequential loss or damage whatsoever.

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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. THRU-ROTT BARRIERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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. Make 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, 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 and to all contractors and subcontractors who are working on the site.
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.

Plotted On : 24/09/2014
Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu file title_line_1
Contents of plot menu file title_line_2
Map Centre : TL4258W

UK Power Networks
Plan Provision
Fore Hamlet
PSWICH
SUSSEX
Tel 0800 0565 866
Fax 08701 963782

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ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- 1) Do have cable locator tool on site and use it before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Do not use a cable locator tool on electrical cables less than 0.5m of electricity cables.
- 4) Do not use a cable locator tool on electrical cables more than 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electrically cables and joints or their protective covers.

IF IN DOUBT - ASK! PHONE 0800 056 5866
URGENTLY! - PHONE 0800 056 5866
URGENTLY! - PHONE 0800 780 0780 (24hrs) URGENTLY!

These basic safety precautions are explained in detail in the HSE booklet HSC047 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMO.

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.

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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, check the metre of these cable routes
 before digging. If the depth of the Company's apparatus may be located on site and any necessary protection works agreed.

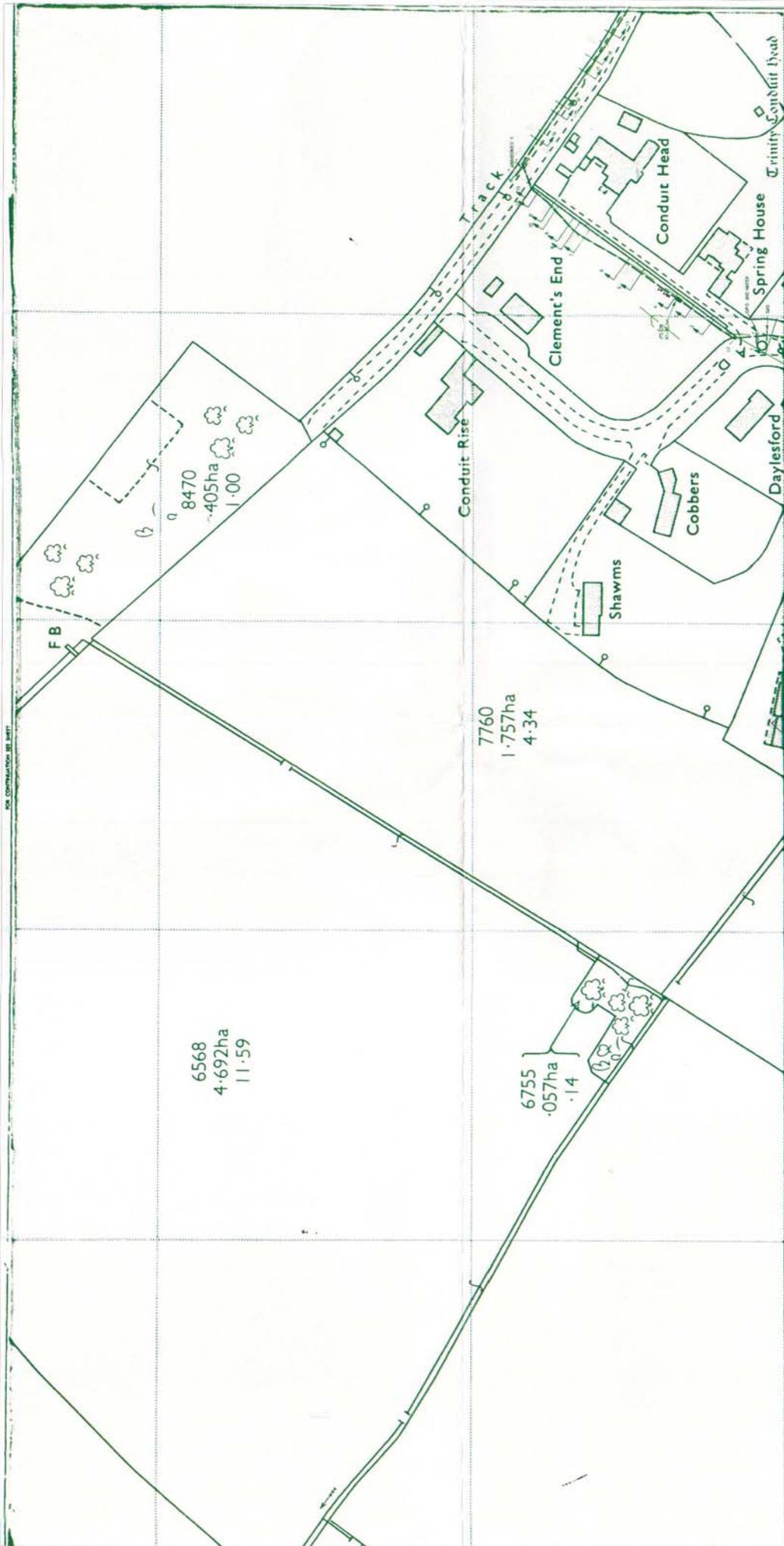
N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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. It is essential that the position of the apparatus should be verified - use approved cable avoidance tools.
3. It is essential that the position of the apparatus should be verified - use approved cable avoidance tools.
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. All cables must be treated as being live unless proved otherwise by UK Power Networks.
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.

Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu line title_line_1
 Contents of plot menu line title_line_2
 Map Centre : TL4258NW

UK Power Networks
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 Fax 08701 963782

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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) Do not use a mechanical excavator within 0.5m 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 CALL - FIRE
PHONE 0800 783 0780 (24hrs) URGENT!

These basic safety precautions are explained in detail in the HSE booklet, HSG147 - Working Danger from Underground Services, a copy of which may be obtained from your supervisor or HMS.

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.

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2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including a loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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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
so 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.

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. It is essential that the exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation.
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, etc.
5. The cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The cables must be protected by using the correct equipment (UK Power Networks' point & click equipment). Do not use plans more than 3 months after the issue date for licensed electricity equipment. Do not use plans more than 3 months after the issue date for licensed electricity distribution systems may be present and it is your responsibility to identify their location.

Plotted On : 24/09/2014
Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu file title_line_1
Contents of plot menu file title_line_2
Map Centre : TL4259NE

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ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

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 HNSO.

IF IN DOUBT - ASK! PHONE 0800 056 8666
EMERGENCY - If you damage a cable or line
Phone 0800 780 0780 (24hrs) URGENTLY

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether or not you have accepted any liability or indemnity or any other arrangement for loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use or any special or consequential loss or damage whatsoever.

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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, please phone 0800 056 8666 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.

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 position of the apparatus shown on this drawing should be verified - use approved cable avoidance tools prior to excavation.
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.
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.

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Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu file title_line_1
Contents of plot menu file title_line_2
Map Centre : TL4259NE

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For details of the working areas visit to
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 Contents of plot menu file title_line_2
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 Tel 0800 0565 866
 Fax 08701 963782

For details of the package please refer to
<http://www.ukpowernetworks.co.uk/entry-emergency/> or
<http://www.ukpowernetworks.co.uk/entry-emergency/>

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
 please call 0800 0565 866 to ensure that the Company's apparatus may be located on site and
 any necessary protection works agreed.

PRIMARY CABLES
 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.

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 fixed tools.
 3. Do not use any other tools or methods which may damage the cables.
 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 not be used for any other purpose without the written consent of
 UK Power Networks. Do not use the information for any other purpose without the written consent of
 UK Power Networks.
 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.

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 injury is caused by its negligence.
 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract,
 in tort (including negligence), for breach of statutory duty or otherwise howsoever
 for any loss, damage, costs, claims, demands, or expenses that you or any third
 party may suffer or incur as a result of using the information provided whether for
 physical damage to property or for any opportunity, loss of savings, loss of profit, loss of
 business, loss of use) or any special or consequential loss or damage whatsoever.

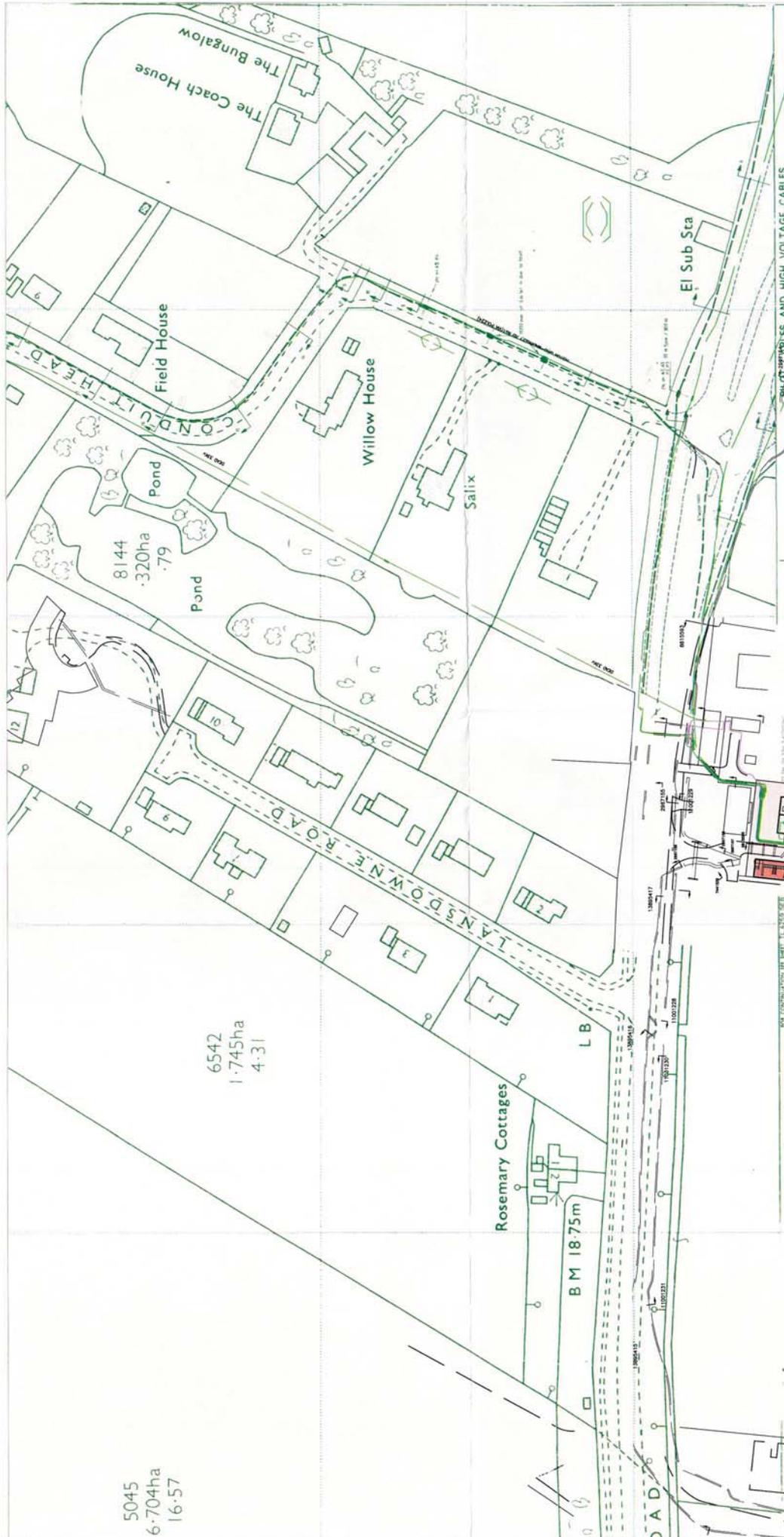
ADVISE TO CONTRACTORS ON AVOIDING DANGER FROM
 BURIED ELECTRICITY CABLES.

1) Do have cable drawings with you on site and check them before you start the
 excavation.
 2) Use 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 0760 (24hrs) URGENTLY

These basic safety precautions are explained in detail in the HSE booklet,
 HSG100, 'Guiding Contractors and Ground Services, a copy of which may
 be obtained from your supervisor or HWSU.

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.



5045
6.704ha
16.57

6542
1.745ha
4.31

Plotted On : 24/09/2014
Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu file title_line_1
Contents of plot menu file title_line_2



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For details of the working safety code by
<http://www.ukpowernetworks.co.uk/safety> - emergency/for-the-website/understanding-safety-worksite.shtml

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
anyone 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.

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. Do not use hand tools that could be adversely affected by the use of mechanical tools or picks until the cable has been located.
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 & apparatus. Do not use mechanical tools or equipment for excavation purposes.
7. 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.

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3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of business, loss of income, loss of reputation, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

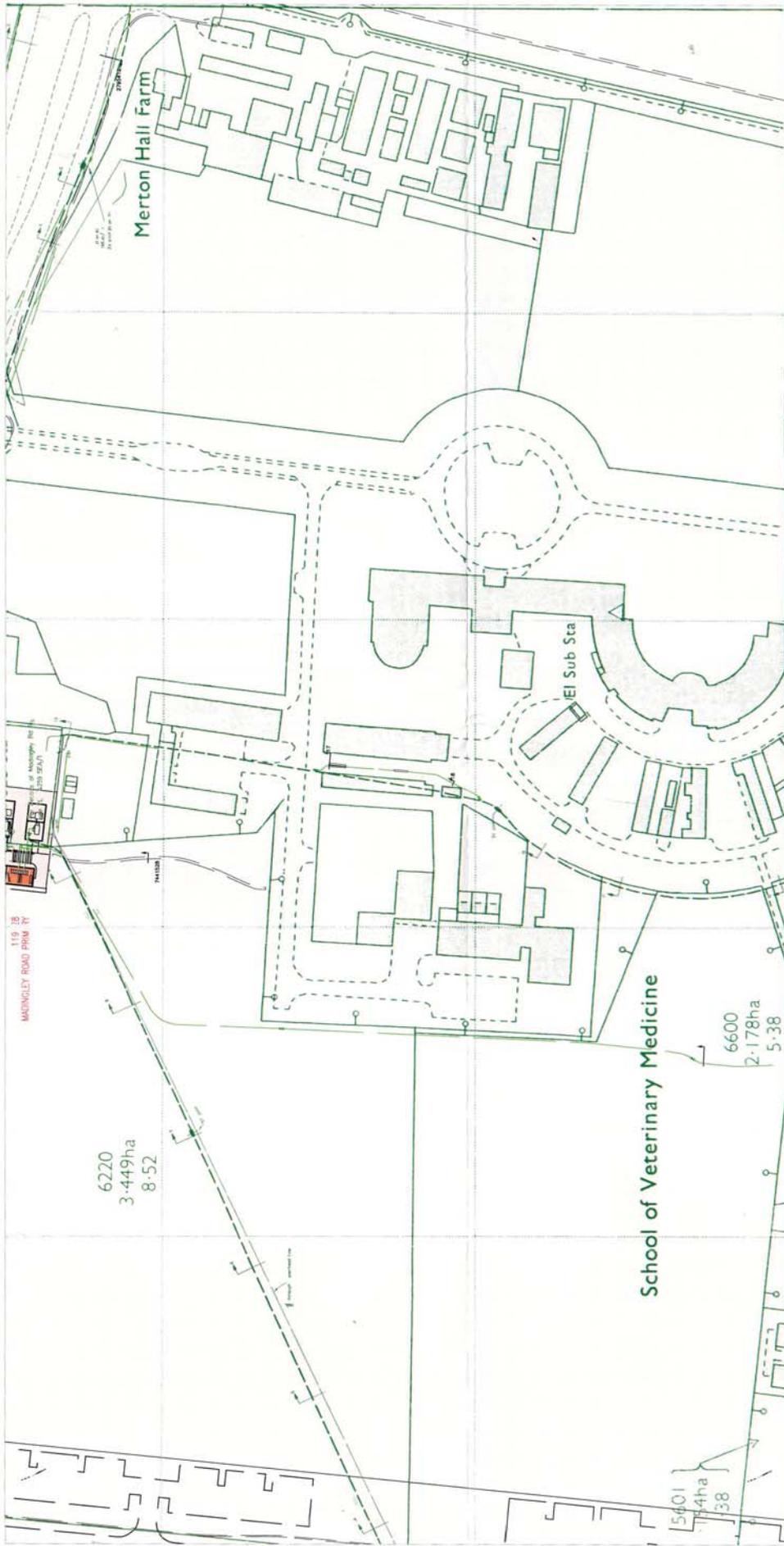
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- ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.**
- 1) Do have cable drawings with you on site and check them before you start the excavation.
 - 2) Do have a cable locator tool on site and use it to help you.
 - 3) Do not use a mechanical excavator within 0.5m of electrically cables.
 - 4) Do not use a mechanical excavator within 0.5m of electrically 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 - 111
Phone 0800 760 0760 (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 HNSO.

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.



ADVISE 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) Use a cable locator tool to check for cables 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(047) - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HSE.

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.

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3. Subject to paragraph 2 UK Power Networks has no liability to you in contract in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for payment or otherwise to property or for any economic loss (including loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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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 BOREDS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

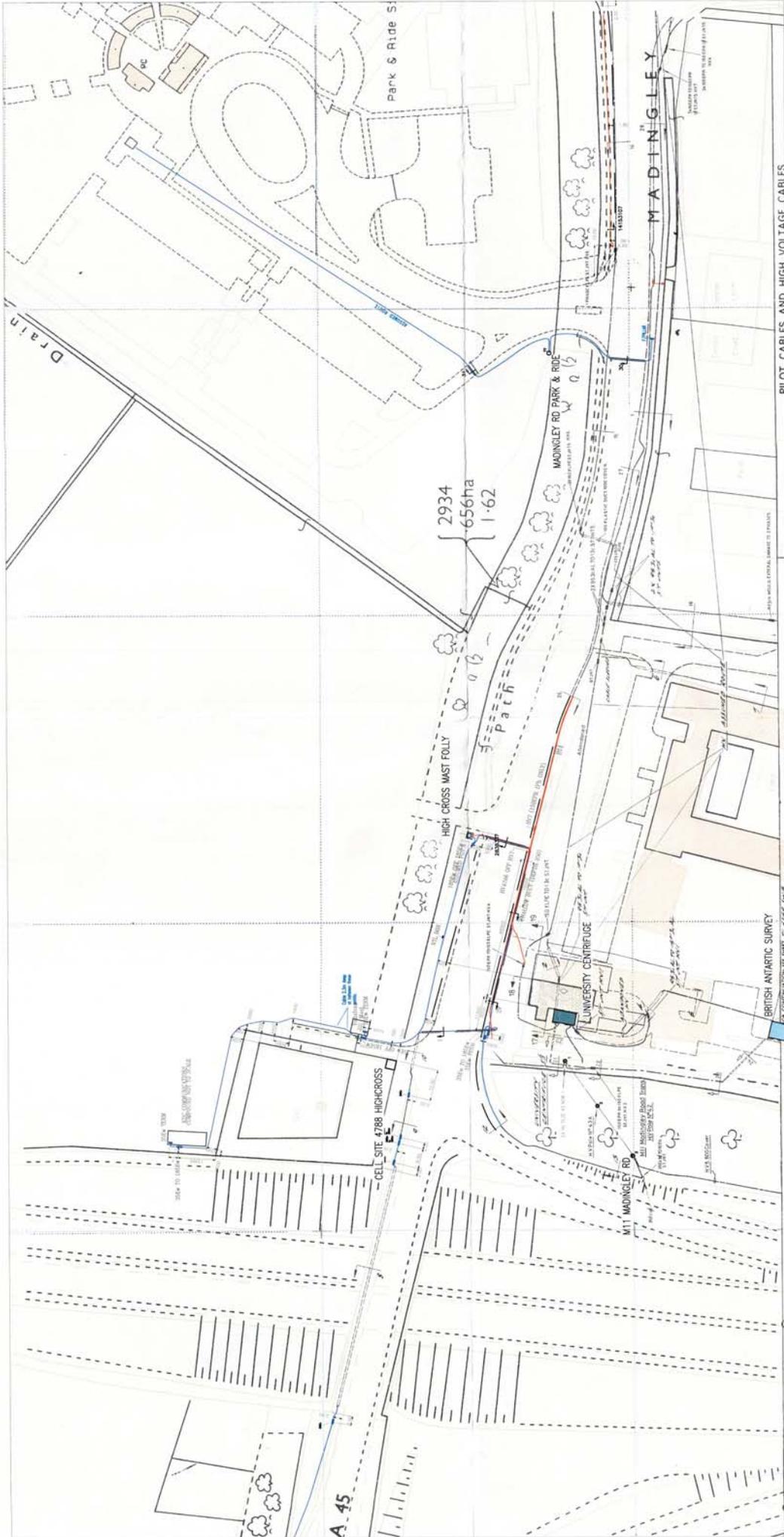
1. The position of the apparatus shown on this drawing is believed to be correct but the original layout may have been altered since the apparatus was installed.
2. It is essential that all work is carried out in accordance with the relevant standards.
3. It is essential that tools are carefully used 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 site.
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.

The relevant distribution services area as that term is defined in such licensee's distribution systems may be present and it is your responsibility to identify their location.

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Plot Description : Contents of plot menu file title_line_1
Contents of plot menu file title_line_2
Map Centre : TL4295E

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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 job.
- 2) Do not use 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 pits or their protective covers.

IF IN DOUBT - ASK: PHONE 0800 056 9866
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 HSC047 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

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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 9866. 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.

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. The position of the apparatus should be verified - use approved cable avoidance 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, 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.
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.

Plotted On : 24/09/2014
Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu line title_line_1
Contents of plot menu line title_line_2
Map Centre : T4255W

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For details of the publication please refer to:
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<http://www.ukpowernetworks.com/the-workplace/understanding-safety-symbols.shtml>



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 work.
 - 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.
- 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.

UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

1. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
2. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided without limitation of any kind, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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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.

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. The position of the apparatus should be verified - use approved cable avoidance tools or probes 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, 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.
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.

Plotted On : 24/09/2014
Plotted By : Tracy Gilbert

Plot Description : Contents of plot menu line title_line_1
Contents of plot menu line title_line_2

Map Centre : T42595W



UK Power Networks
Plc
Foreham Road
Ipswich
Suffolk
IP3 8AA
Tel 0800 0565 866
Fax 0870 965782

http://www.ukpowernetworks.co.uk/safety-management/avoiding-danger-from-buried-electricity-cables



ADVISE 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) Use 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 HSC047. Copies of this booklet and services, a copy of which may be obtained from your supervisor or HMSO.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any other loss or damage, including but not limited to financial loss, loss of profits, loss of savings, loss of goodwill, loss of business, loss of tax) or any special or consequential loss or damage whatsoever.

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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, please ensure that the Company's apparatus may be located on site and any necessary protection works agreed.

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

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
3. If excavation using suitable hand tools.
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 unit do not provided must be given to a person working in UK Power Networks' plant & equipment.
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.

Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu file title_line_1
 Contents of plot menu file title_line_2

Map Centre : TL4358W

UK Power Networks
 Plan Provision
 Fore Hamlet
 PSWICH
 BN1 8AA
 Tel 0800 0565 866
 Fax 08701 963782

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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) If you 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, 'Avoiding Danger from Buried Electricity Cables', a copy of which may be obtained from your supervisor or HSE.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss or loss of profit, loss of business, loss of use or any special or consequential loss or damage whatsoever.

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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.

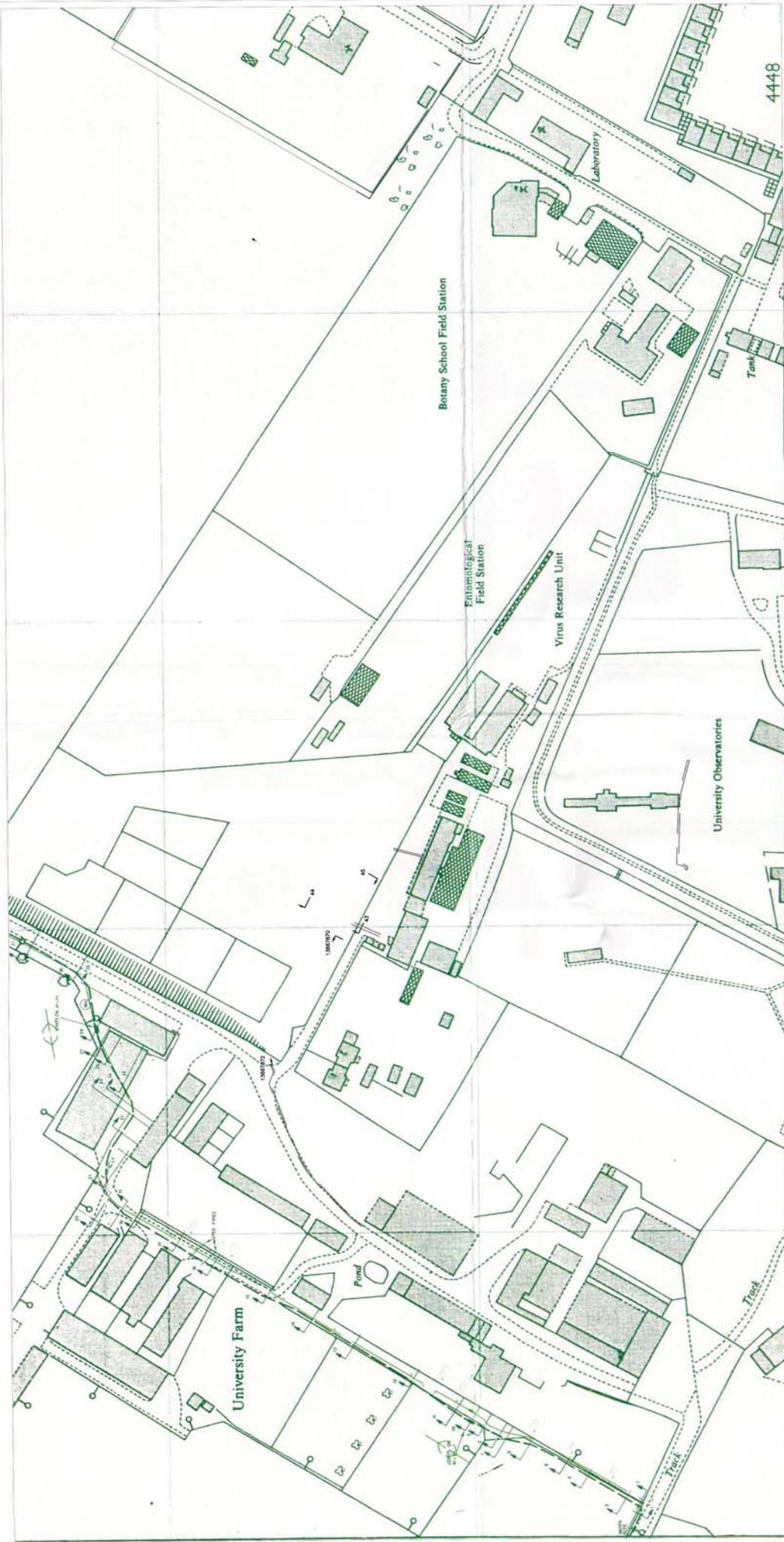
BELOWING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

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. The position of the apparatus should be verified - use approved cable avoidance 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, 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 and to all contractors and subcontractors who are working on the site.
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.

Plotted On : 24/09/2014
Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu line title_line_1
Contents of plot menu line title_line_2
Map Centre : TL4358W

UK Power Networks
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Fore Hamlet
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Fax 08701 963782

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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 work.
- 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 - ASKI 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, HSG47 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it ceases the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information (including without limitation physical damage to property, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use), or any special or consequential loss or damage whatsoever.

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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.

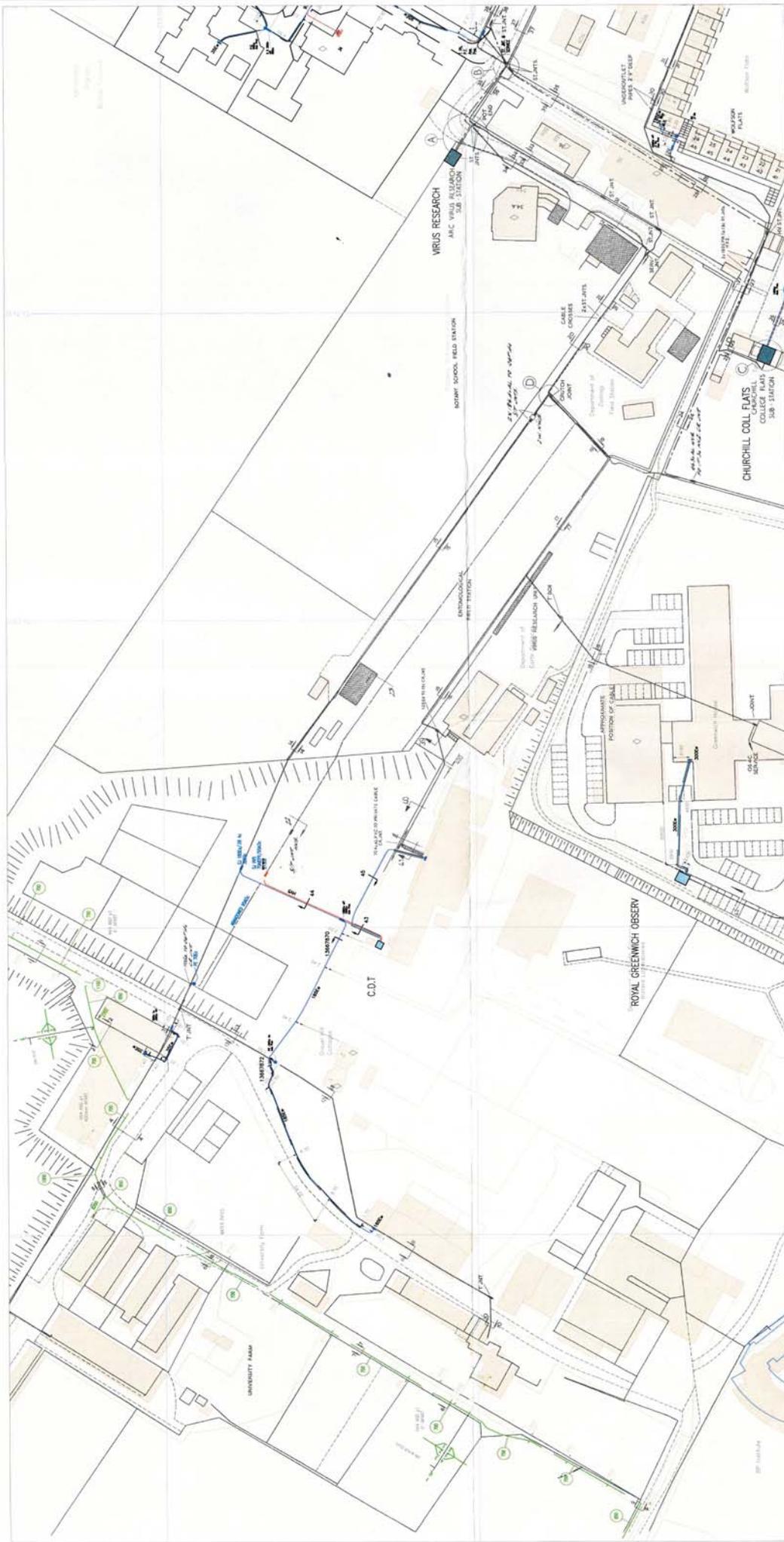
1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. All cables are assumed to be overhead unless otherwise stated.
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 & apparatus to not that it contains information relating to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu file title_line_1
 Contents of plot menu file title_line_2

Map Centre : TL4359W

UK Power Networks
 An Innovation
 For Tomorrow
 IPSWICH
 Suffolk
 IP3 8AA
 Tel 0800 0565 866
 Fax 08701 903762

The details of the drawing shall refer to the specification/contract documents for the work/works/contracting activity/works/works.



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) Use 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 HSC63 'Avoiding Danger from Buried Electricity Services', a copy of which may be obtained from your supervisor or HMSO.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise whatsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including loss of production, business, loss of use) or any special or consequential loss or damage whatsoever.

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PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts
 Depth normally 750mm cover in carriageway & 800mm 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.

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 all holes are carefully made avoiding the use of mechanical tools or any other equipment which may damage the cables.
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 & premises to ensure they are aware of the location of the cables and the date of the most recent survey.
7. 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.

Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu line title_line_1
 Contents of plot menu line title_line_2

Map Centre : TL4359N

UK Power Networks
 20, Foreham Road
 Ipswich
 Suffolk
 IP3 8AA
 Tel: 0800 056 586
 Fax: 08701 963792

<http://www.ukpowernetworks.com/safety>



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) Use 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 786 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.

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

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever in any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided hereunder for any purpose other than that for which it was intended. This limitation includes, but is not limited to, loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use or any special or consequential loss or damage whatsoever.

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EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts
 Depth normally 750mm cover in carriageway & 600mm cover in footway.
 Before digging within 2 metres of these cable routes
 1800 056 5866 or the Company's apparatus may be located on site and any necessary protection works agreed.

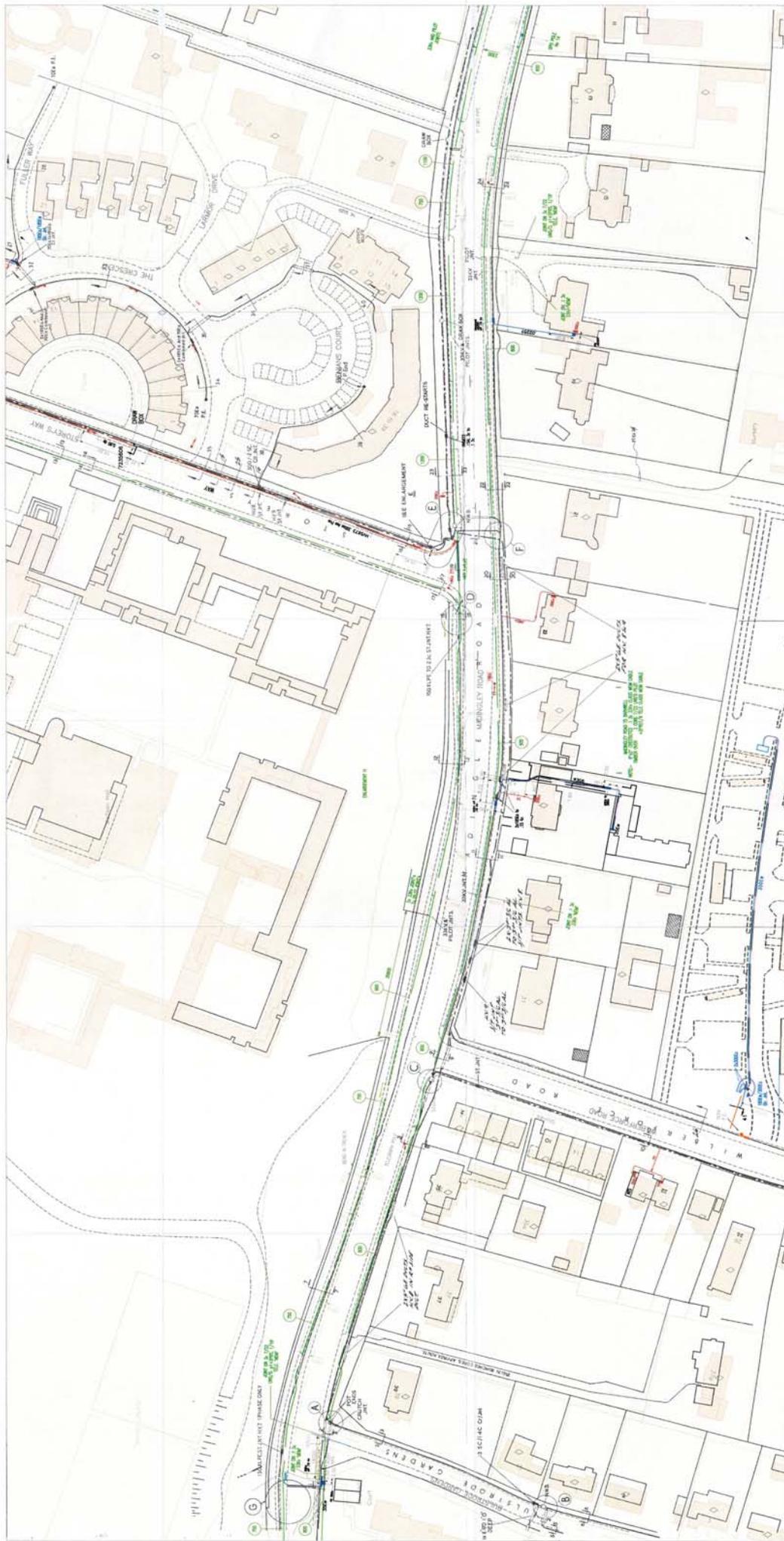
N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original records may have altered since the apparatus was installed.
2. The location of the apparatus must 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.
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.

Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu file title_line_1
 Contents of plot menu file title_line_2
 Map Centre : TL43595E

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For a full list of the services we offer visit www.ukpowernetworks.co.uk or email enquiries@ukpowernetworks.co.uk



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) Use 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 0160 (24hrs) URGENTLY

These basic safety precautions are explained in detail in the HSE booklet, HSG(C)77, 'Safety in the Workplace - Avoidance of Services, a copy of which may be obtained from your supervisor or HWSU.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for any purpose or for any reason, including but not limited to, any loss of profit, loss of business, loss of use, or any special or consequential loss or damage whatsoever.

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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:
 1. Check 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.

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.
3. It is essential that suitable hand signals be used to avoid 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, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. Covering made to the apparatus must be removed within 3 months of the date for installation of equipment. Do not use any equipment for a period of 3 months after the date for installation of equipment.
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.

Plotted On : 24/09/2014
 Plotted By : Tracy Gilbert
 Plot Description : Contents of plot menu file title_line_1
 Contents of plot menu file title_line_2
 Map Centre : TL4359E

UK Power Networks
 Plan Provision
 Fore Hamlet
 PSWICH
 P33 BA
 Tel 0800 0565 866
 Fax 08701 963782

For details of the working please refer to <http://www.ukpowernetworks.co.uk/safety-avoidance/>



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, a cable locator tool on site and use it to help you.
- 2) Mark out the location of electricity cables.
- 3) Do not use a mechanical excavator within 0.5m of electricity cables.
- 4) Use spades and shovels in preference to other tools.
- 5) 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(GA7) - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for private or professional purposes, including but not limited to loss of profit, loss of business, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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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, please ensure you have read 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.

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.
3. It is essential that trial holes be 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, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. All cables must be given to all personnel using UK Power Networks plant & equipment. Do not use plant or equipment unless you are a competent person.
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.

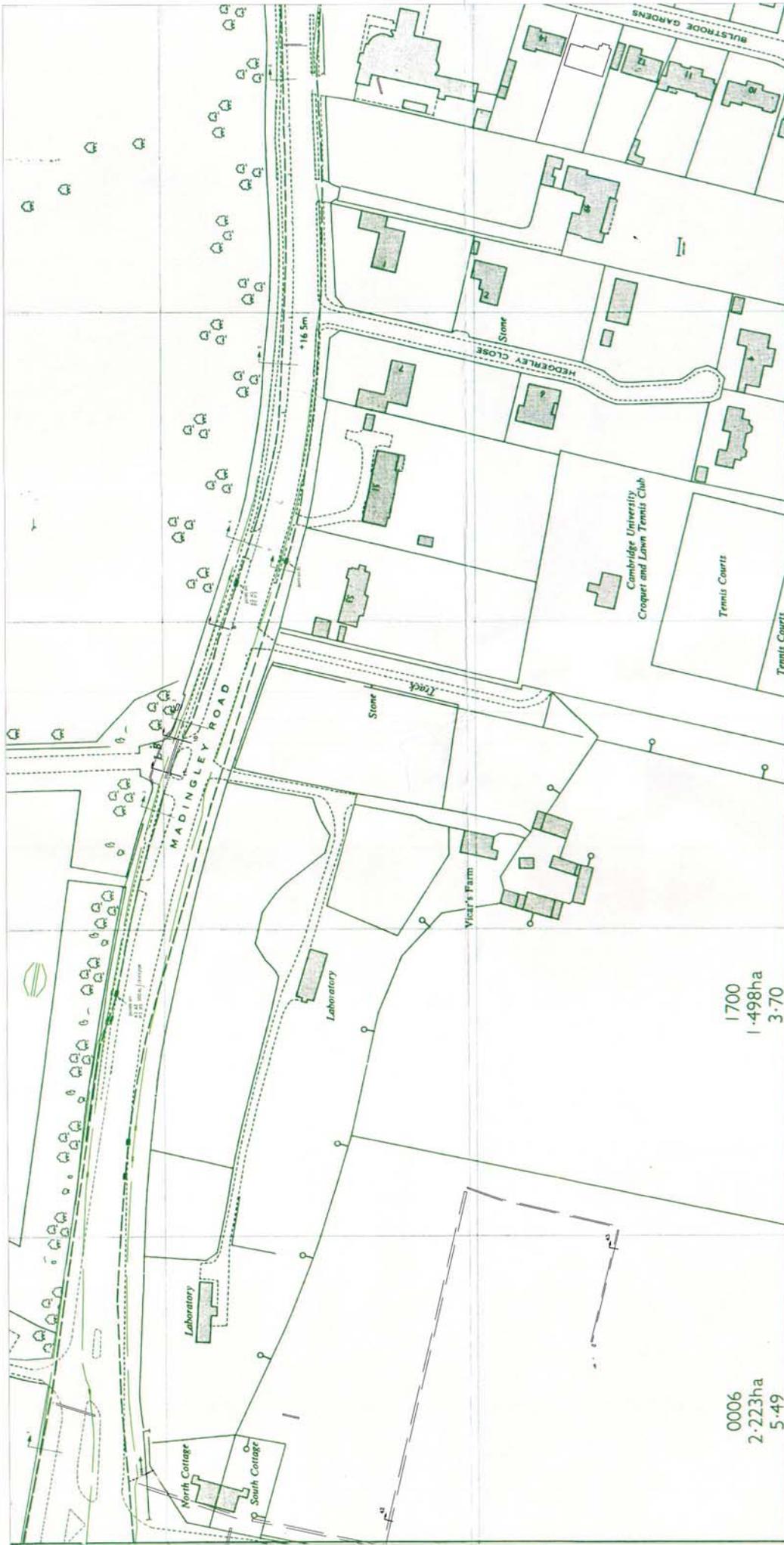
Plotted On : 24/09/2014
Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu line title_line_1
Contents of plot menu line title_line_2

Map Centre : TL4359SW



UK Power Networks
Plan Provision
Fore Hamlet
PSWICH
SUSSEX
Tel 0800 0565 866
Fax 08701 863782

For details of the working please refer to
<http://www.ukpowernetworks.co.uk/utility-emergencies/> or to the workplace/industry safety systems unit



0006
2.223ha
5.49

1700
1.498ha
3.70

Plotted On : 24/09/2014
Plotted By : Tracy Gilbert
Plot Description : Contents of plot menu line title_line_1
Contents of plot menu line title_line_2
Map Centre : TL4355SW

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Plan Provision
Fore Homet
IPSWICH
Suffolk
Tel: 0800 0565 866
Fax: 03701 963782

For details of the participating please refer to:
<http://www.ukpowernetworks.com/safety-requirements/in-the-workplace/understanding-safety-requirements.shtml>

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
please refer to the above information to ensure 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.
- 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.
 - The exact position of the apparatus should be verified - use approved cable avoidance tools to establish existing suitable hand tools.
 - It is essential that the apparatus is used in a safe manner, avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
 - It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
 - All cables must be treated as being live unless proved otherwise by UK Power Networks. The information provided must be given to all workers before the use of any excavation plant & equipment. Do not touch any cables or wires unless you are a qualified electrician.
 - 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.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

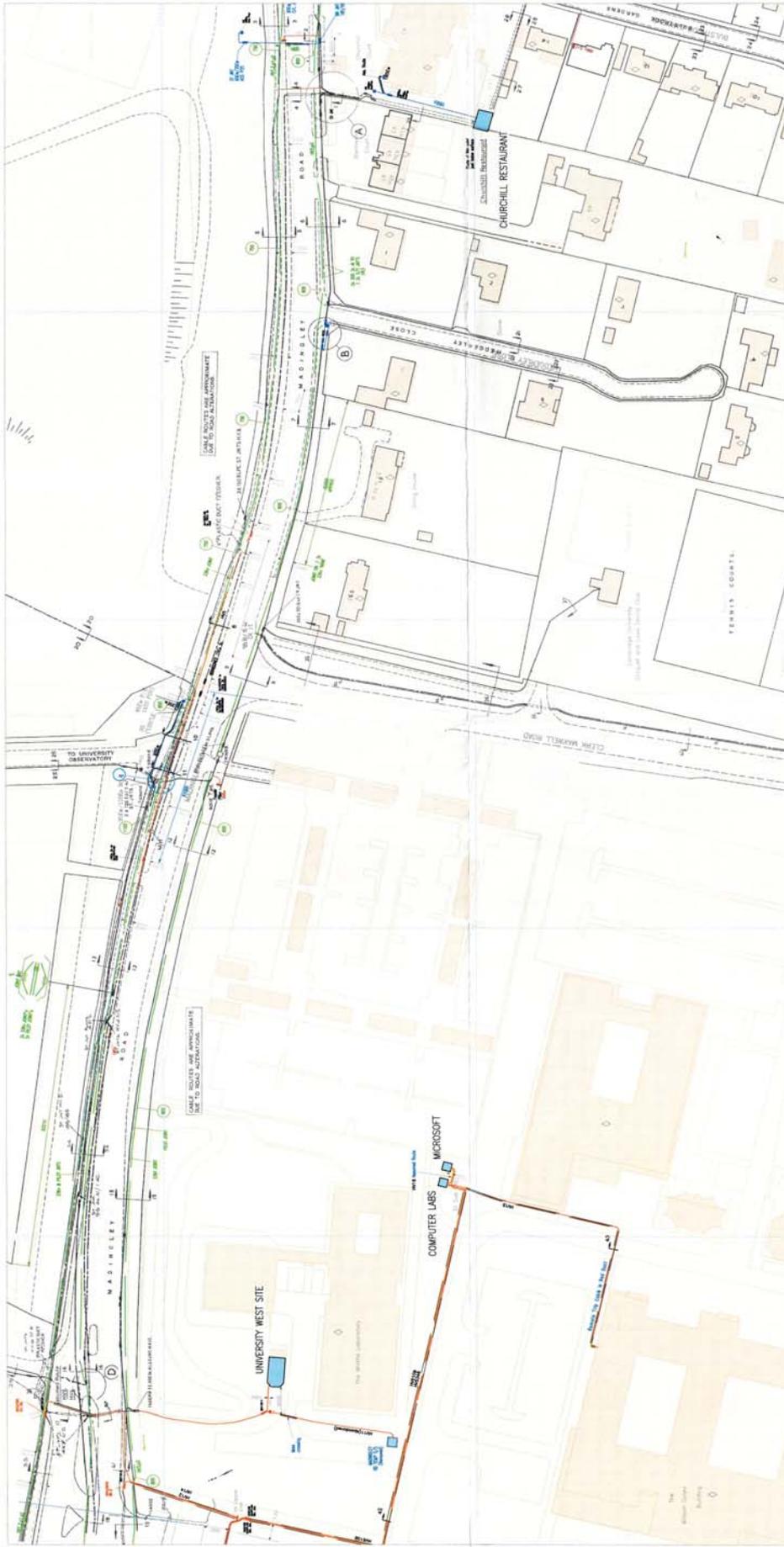
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- Do have cable drawings with you on site and check them before you start the work.
 - Do have a cable locator tool on site and use it to help you.
 - Mark out the location of electricity cables.
 - Do not use a mechanical excavator within 0.5m of electricity cables.
 - Use spades and shovels in preference to other tools.
 - 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.
- 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.



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 dig deeper than 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 - RSK PHONE 0800 056 8866
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 HMSU.

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. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death or personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2, UK Power Networks has no liability to you in contract, tort, negligence, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

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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 8866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.

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

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. Prior to excavation the apparatus should be verified - use approved cable avoidance 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. No excavation shall be made until the position of all cables has been determined.
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 (including those who are not employees of UK Power Networks) in order to ensure safety.
7. 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.

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 Pointed By : Troy Gilbert
 Plot Description : Contents of plot menu line title_line.1
 Contents of plot menu line title_line.2
 Map Centre : TL4358W



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 To: Troy Gilbert
 Suffolk
 P3 BAA
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 Fax 0370 1 903782

For details of the applicable licence visit:
<http://www.ukpowernetworks.co.uk/safety>

Appendix D District Combined Heat and Power Network

Figure 1: Proposed district heating network

