

TFL Landholdings at Northwood

Utilities Assessment

034233

28 October 2015

Revision 03

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02	Final Draft Issue (revised following comments)	NP	19/10/2015	П
03	Final Issue	NP	28/10/2015	П

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date	28/10/2015
approved	Les Johnson
signature	Alexander 1
date	28/10/2015

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1 Introduction

This report summaries the utilities in the vicinity of Transport for London (TfL) Landholdings at Northwood, London, HA6 2QB. The report identifies those requiring diversion as a result of the new development.

1.1 Site description

The site is located on the junction of Green Lane (B469) and Eastbury Road within the London Borough of Hillingdon (LBH).

The site comprises land north and south of Green Lane including part of the highway. The area of land north of Green Lane comprises a parade of single storey retail units located over the railway bridge with a two storey adjoining unit on the Corner of Eastbury Road. The northern part of the site is bounded by the Eastbury Surgery to the north; Green Lane to the south; Eastbury Road to the east and the retail units on the bridge to the west.

The majority of the site lies south of Green Lane, in Northwood and comprises the existing London Underground (LU) station and a mix of A-Class uses, residential flats, a light industrial use, dental practice and area of surface car parking. The southern part of the site is bounded by Green Lane to the north; the London Underground compound to the south; the railway line to the east; and the rear boundaries of the Northwood Central Club, St John's United Reformed Church and residential properties fronting Hallowell Road to the west.

Groundwise Searches Limited were employed to carry out a utility search of utilities affected and unaffected by the proposed development.

The following sections list the affected utilities and indicate diversions required.

2 Background

2.1 Project Proposal

The proposed development centres around the application site the site) with the existing site shown in Figure 2—1. The planning application proposal are, as shown in Figure 2—2 and Figure 2—3.

A hybrid planning application for comprehensive redevelopment of the site comprising full planning permission involving demolition of existing buildings to provide 93 residential units (C3) and associated car parking, 1,440 sq.m retail (A1-A5), a new operational railway station (Sui Generis) with step free access and associated car parking; new bus interchange, and a new piazza. Outline planning consent for up to 34 residential units, car parking (all matters reserved apart from access) and refurbishment works to existing retail units along Station Approach.

Figure 2—1: Location plan, extracted from Google Maps



Figure 2—2: Location plan – application boundaries

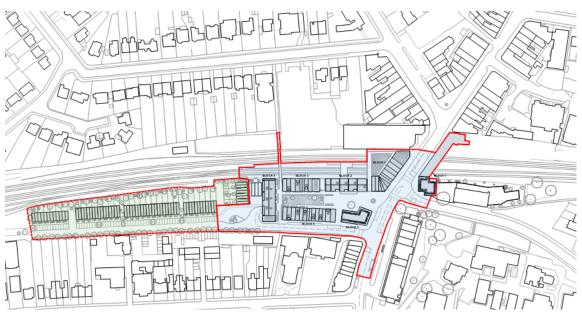
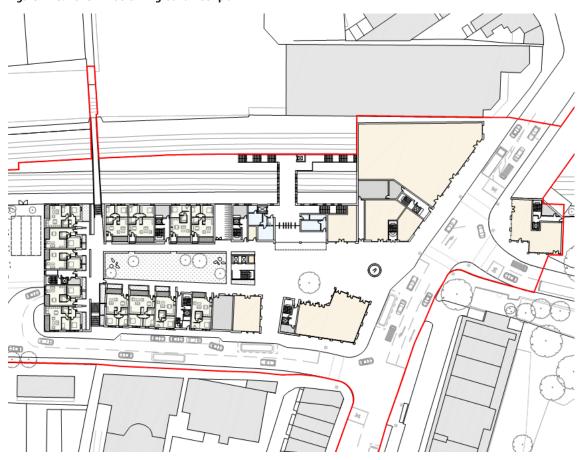


Figure 2—3: Zone A Blocks 1-7 ground floor plan



3 Utilities Summary

3.1 Utilities Affected

The following utilities are affected:

Table 3—1: Utilities affected by the proposed development

	Туре
Utility Company	
UK Power Networks	Electricity
National Grid Gas	Gas
ВТ	Telecoms
Instalcom	Telecoms
OFCOM	Mobile Phone Bases
Transport for London	Rail
London Underground Asset Power	Rail
Affinity Water	Mains
Thames Water	Sewers
MBNL	Telecoms
Virgin Media	Telecoms

3.2 Utilities Unaffected

The following utilities are unaffected – apparatus are not present:

Table 3—2: Utilities unaffected where apparatus are not present

Utility Company	Туре
Energetics	Electricity/Gas
GTC	Electricity/Gas
SSE	Telecom/Gas/Electric
Linesearch.org	Telecoms/Oil/Fuel
КСОМ	Telecoms
ВЅКҮВ	Telecoms
Colt	Telecoms
McNicholas - TATA	Telecoms
McNicholas - KPN	Telecoms
Verizon	Telecoms
Trafficmaster	Telecoms
Interoute	Telecoms
Fulcrum Pipelines Ltd	Gas

Utility Company	Туре
Telent	Telecoms
EU Networks	Telecoms
Citigen	Telecoms
London Overground	Rail
Network Rail	Rail
Crossrail	Rail
Cityfibre	Telecoms
MOD	Tunnels
Vodaphone	Telecoms
Vtesse	Telecoms

4 Utility Diversions

The following sections each show a plan highlighting affected utilities. Section 4 is summarised in Table 4—1 listing all the diversions identified:

Table 4—1: Summary of diversions identified for the Northwood station development

	Туре	Diversion Requirements
Utility Company		
UK Power Networks	Electricity	Electrical cables to be diverted; abandoned street lighting to be removed; sub-station assets to be confirmed (located at north end of existing station carpark) for relocation. Other utilities at risk.
National Grid Gas	Gas	Low pressure mains to be diverted.
ВТ	Telecoms	Underground assets; joint boxes; distribution boxes; manholes to be diverted. Some underground assets at risk.
Instalcom	Telecoms	Telecoms cable running down side of rail tracks – at risk
OFCOM	Mobile Phone Bases	Bases 1 and 2 possibly at risk – clarification required
Transport for London	Rail / Surface Transport	Road junction at Green Lane / Station Approach / Eastbury Rd to be reconfigured (removal of station approach and addition of bus drop off / pick up). Signal timings will need to be altered to suit.
London Underground Asset Power	Rail	High voltage and pilot cables – potentially require diversion.
Affinity Water	Mains	Water supply mains to be diverted. Some are at risk.
Thames Water	Sewers	Surface and foul Water sewers require diversion. Others at risk.
MBNL	Telecoms	Assets believed to be outside site boundary and not affected by proposed development. Needs confirmation.
Virgin Media	Telecoms	

Some utilities are shown as at risk on the basis that they are believed to not be directly affected by the construction of the proposed development. They may be located close to the site boundary in open areas or located such that with protective measures they can remain in their existing alignment e.g. under the new residential access road. This is subject to confirmation with more accurate coordination of the proposals (layout and levels) and site boundary relative to the various utilities.

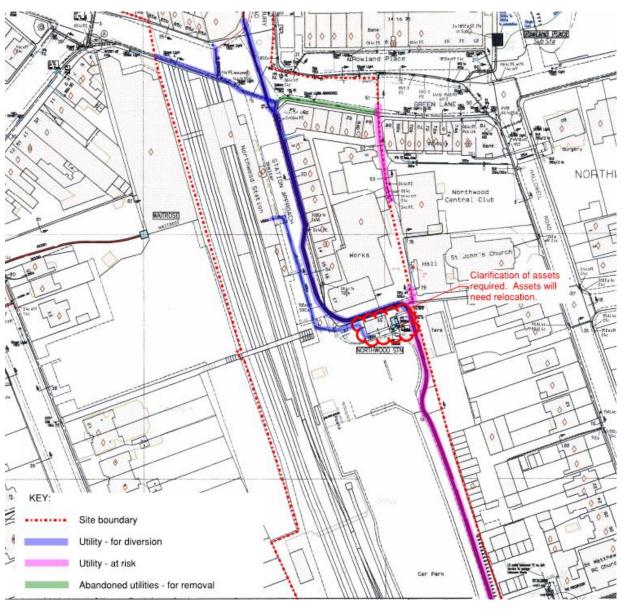
4.1 Electricity – UK Power Networks

Figure 4—1 shows UKPN elecitity assets for diversion or possible diversion.

Additionally, there appears to be abandoned street lighting on Green Lane (located adjacent to building numbers 54 – 64, east of the existing station entrance) which will need removal to accommodate the proposed bus drop off/pick up. This will be subject to further detailed construction design.

Refer to Appendix B for the UKPN asset plan.

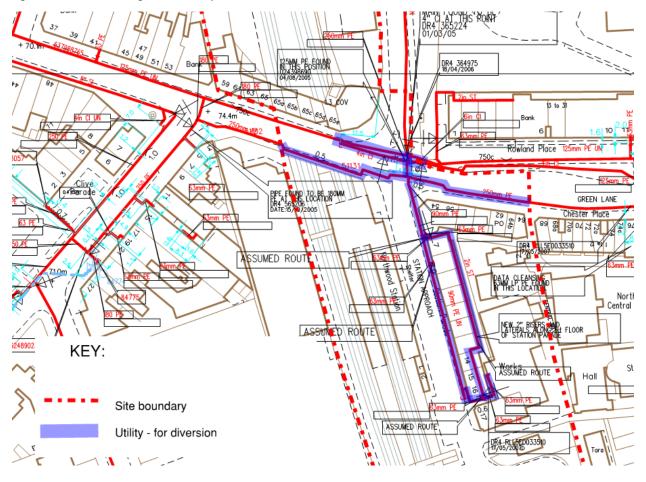
Figure 4—1: UK Power Network – affected assets for diversion



4.2 Gas – National Grid Gas

There are low pressure mains in Green Lane and Station Approach which require diversion, as shown in Figure 4—2 Appendix C shows the extent of the NG asset plan.

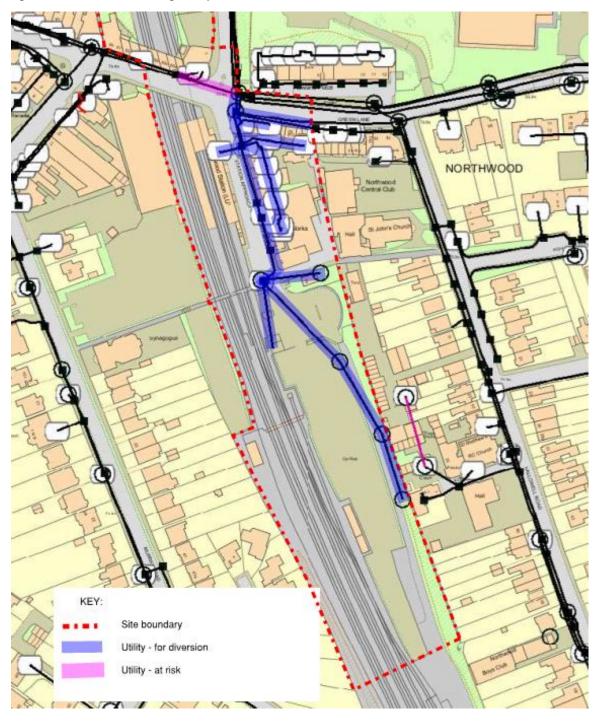
Figure 4—2: National Grid gas mains (low pressure) for diversion



4.3 BT – Telecoms

BT assets affected include underground plant, joint boxes, distribution points and manholes. Diversions are shown in Figure 4—3 and a full size version of the BT asset plan is shown in Appendix D.

Figure 4—3: BT Telecomms underground plant



4.4 Instalcom – Telecoms

Instalcom represent Level 3 Communications who have leased from Network Rail PLC telecommunication cable lying alongside the railway track.

The proposed new station entrance and some of the proposed retail spans the rail tracks at Northwood Station and may affect the above mentioned Level 3 telecoms, as indicated in Figure 4—4. Appendix E shows the plan received from Instalcom.

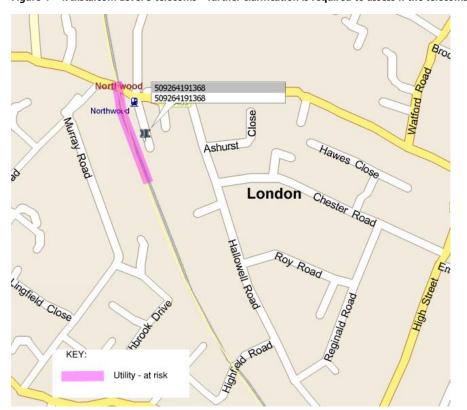


Figure 4—4: Instalcom Level 3 telecoms – further clarification is required to assess if the telecoms cables are affected

4.5 OFCOM - Mobile Phone Bases

OFCOM identified 3 mobile phone bases in the local area but all are outside the site boundary. Bases 1 and 2 as shown in Figure 4—6 are close to the site boundary but appear to be located east of Central Way hence just outside the site boundary. However, these bases could be at risk and so further checks should be made. Plans from OFCOM are shown in Appendix F.



Figure 4—5: OFCOM mobile phone bases locations - all bases identified by OFCOM as affected are outside site boundary

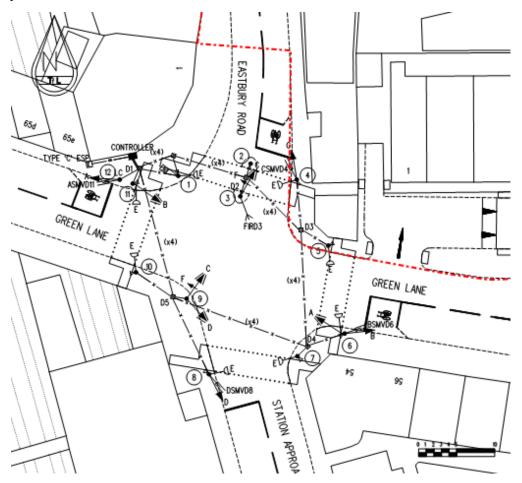
Figure 4—6: Mobile Phone Bases 1 and 2 – outside of site boundary (alignment is approximate)



4.6 Transport for London – Rail / Surface Transport

Signalling at the junction of Green Lane/Eastbury Road/Station Approach will change as a result of the removal of Station Approach and the addition of the bus drop off/pick up. Existing signal layout is shown in Figure 4—7. Refer to Appendix G for full plan version.

Figure 4—7: Traffic Signal at Green Lane / Station Approach / Eastbury Road – signalling will change as a result of changes to the junction



4.7 London Underground Asset Performance Power – Rail

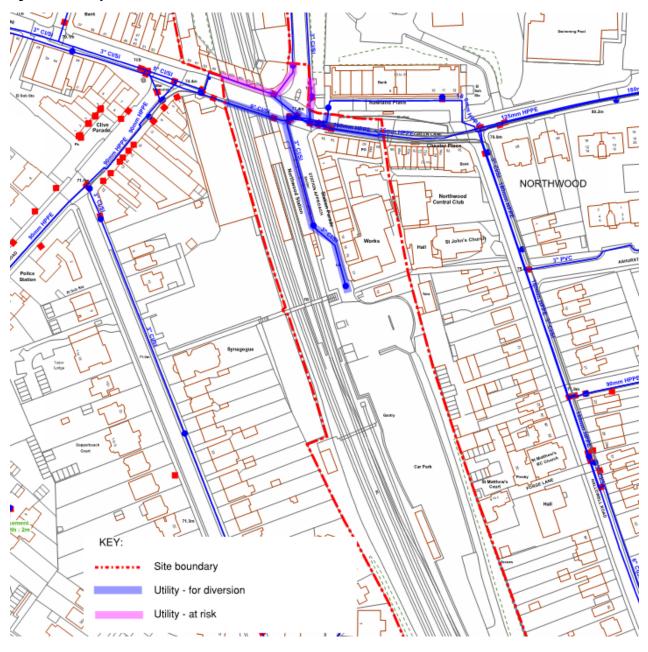
LU manage high voltage and pilot cables for London Underground's distribution network. They have cables on both sides of the rail tracks.

The cables on the west side are on the site boundary and are at risk where new retail is proposed. The cables on the west side are buried and have manhole access within the site area. These will require diversion as they sit in the proposed new retail area and new station entrance. Appendix H shows full size plans.

4.8 Affinity Water – Mains

Affinity Water have distribution mains, fire hydrants and 'fittings' within the site area as shown in Figure 4—8. Appendix I shows the Affinity Water plan. Some assets are shown at risk dependent on the extent of works on the road junction.

Figure 4—8: Affinity Water – Mains

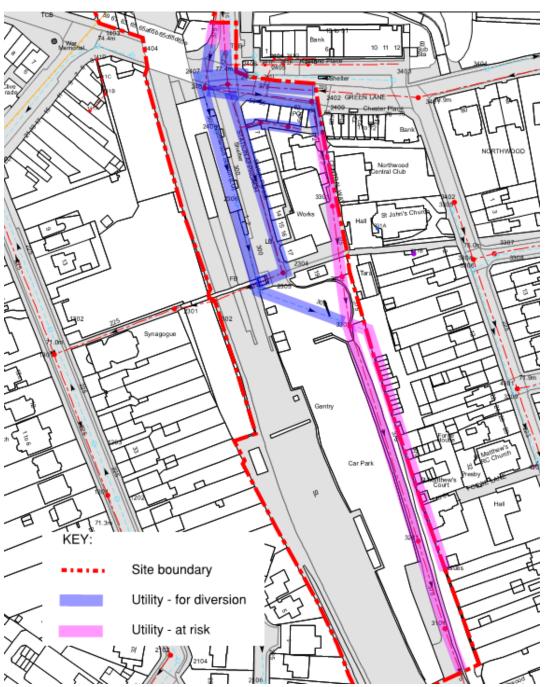


4.9 Thames water – Sewer

Thames water have both surface and foul water drainage networks within the site boundary. Those requiring diversion are shown in Figure 4—9. Appendix J shows the Thames Water plan.

There are some sections of the existing utilities that will not need to be diverted but protective measures will be required.

Figure 4—9: Thames Water - Sewer for diversion



4.10 MBNL - Telecoms

MNBL represent EE and HG3 mobile telecommunications networks. They have confirmed they have plant nearby but have not provided further detail except that shown in Figure 4—10 which appears to show they have plant (ref HA0029) located east of Central Way and the site boundary and are, in fact, unaffected. Appendix K shows the plan provided by MBNL.

Northwood B469 Green Lal Manust Chester A Roy Ros

Figure 4—10: MNBL - Telecoms possibly affected

4.11 Virgin Media - Telecoms

Virgin Media have ducts, chambers and cabinets within the site boundary. The ducts may contain fibre optic, Coaxial and/or 240 v power cables. Those requiring diversion are shown in Figure 4—11. Some ducts have been identified at risk where they are located close to the site boundaries and may not be affected by the built works so will not require diversion. At risk ducts may require protective measures. Refer to Appendix L for telecoms plan.

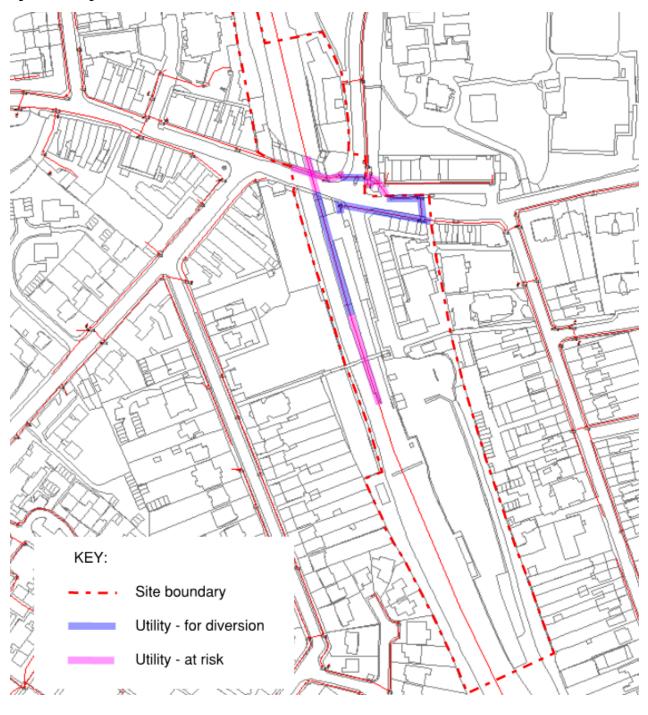
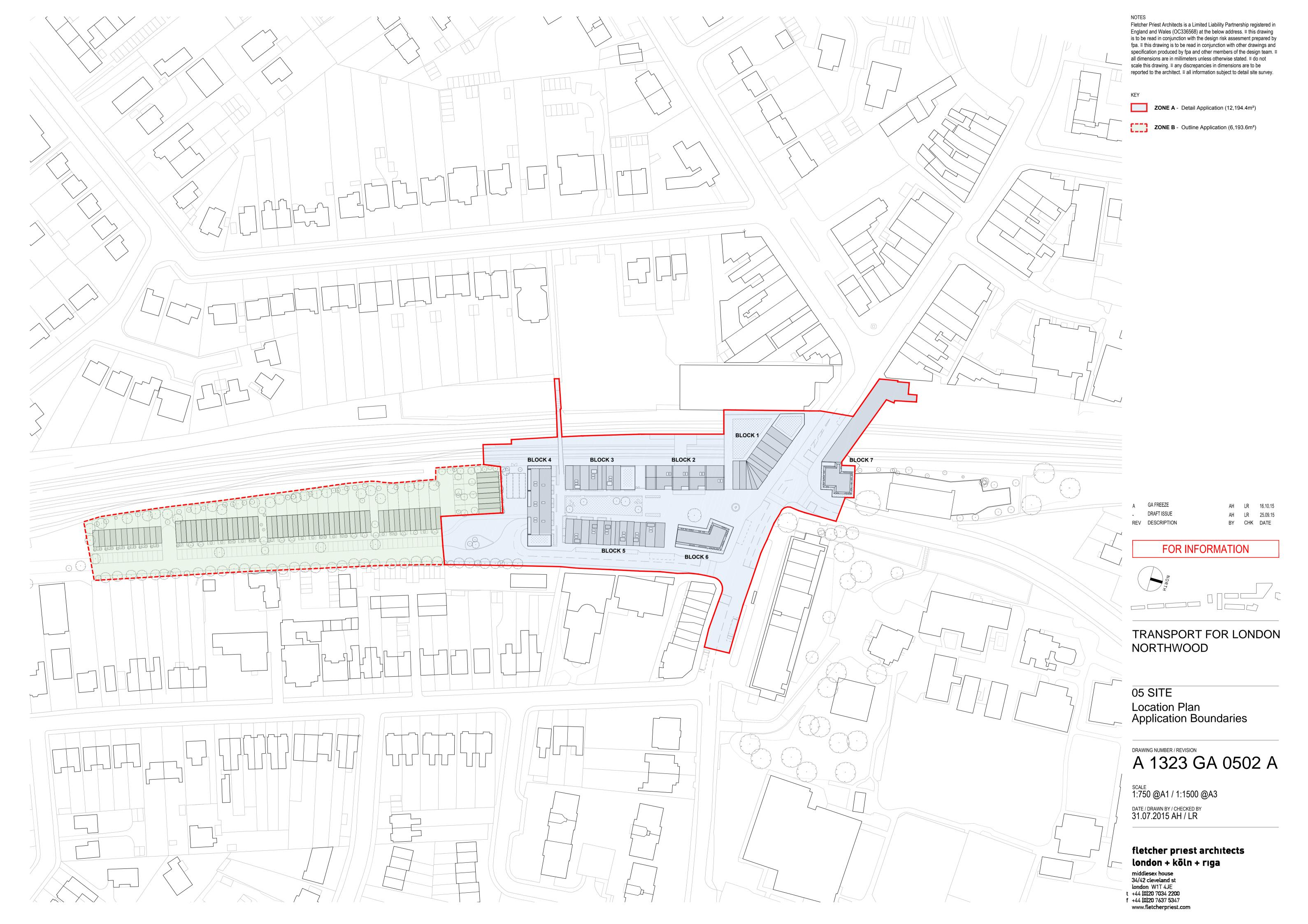
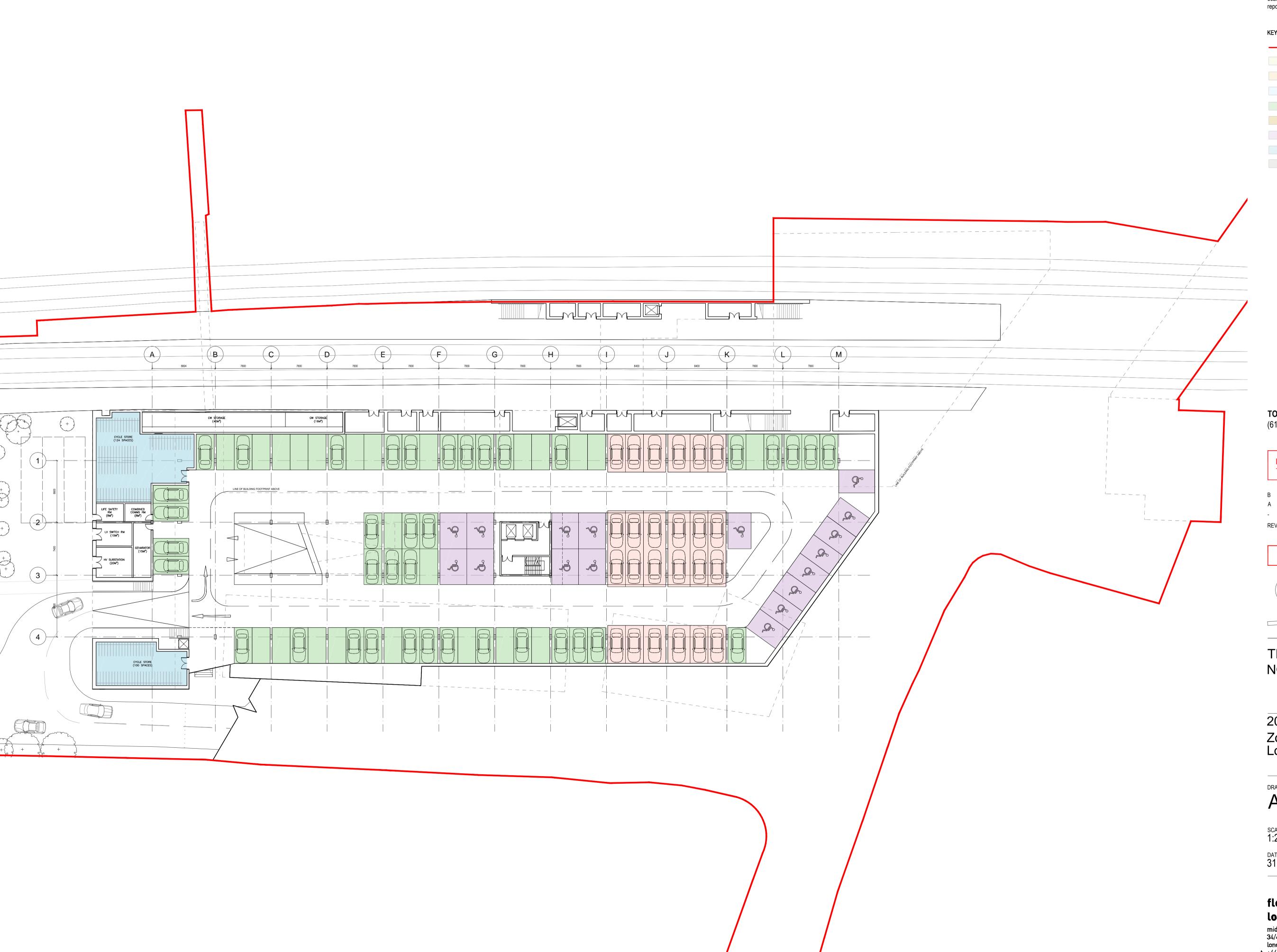


Figure 4—11: Virgin Media – Telecoms ducts for diversion or at risk

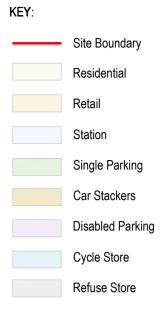
Appendix A Proposed Development





NOTES

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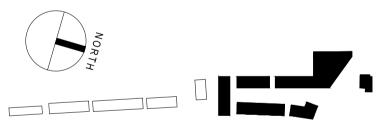


TOTAL CAR SPACES - 126 (61 Commuter / 17 Accessible / 48 Residential)

IN ABEYANCE, STRUCTURES/SERVICES TO BE COORDINATED WITH BH.

В	GA FREEZE	АН	LR	16.10.15
Α	GA FREEZE	AH	LR	09.10.15
-	DRAFT ISSUE	АН	LR	25.09.15
REV	DESCRIPTION	BY	CHK	DATE

FOR INFORMATION



TRANSPORT FOR LONDON NORTHWOOD

20 GA PLANS Zones A Blocks 1-7 Lower Ground 2 Floor Plan

A 1323 GA 2000 B

SCALE 1:250 @A1 / 1:500 @A3 DATE / DRAWN BY / CHECKED BY 31.07.2015 RE / LR

fletcher priest architects london + kōln + riga

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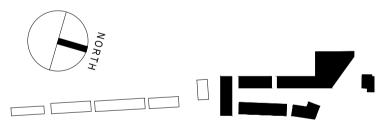


TOTAL CAR SPACES - 126 (61 Commuter / 17 Accessible / 48 Residential)

IN ABEYANCE, STRUCTURES/SERVICES TO BE COORDINATED WITH BH.

В	GA FREEZE	АН	LR	16.10.15
Α	GA FREEZE	AH	LR	09.10.15
-	DRAFT ISSUE	AH	LR	25.09.15
REV	DESCRIPTION	BY	CHK	DATE

FOR INFORMATION



TRANSPORT FOR LONDON NORTHWOOD

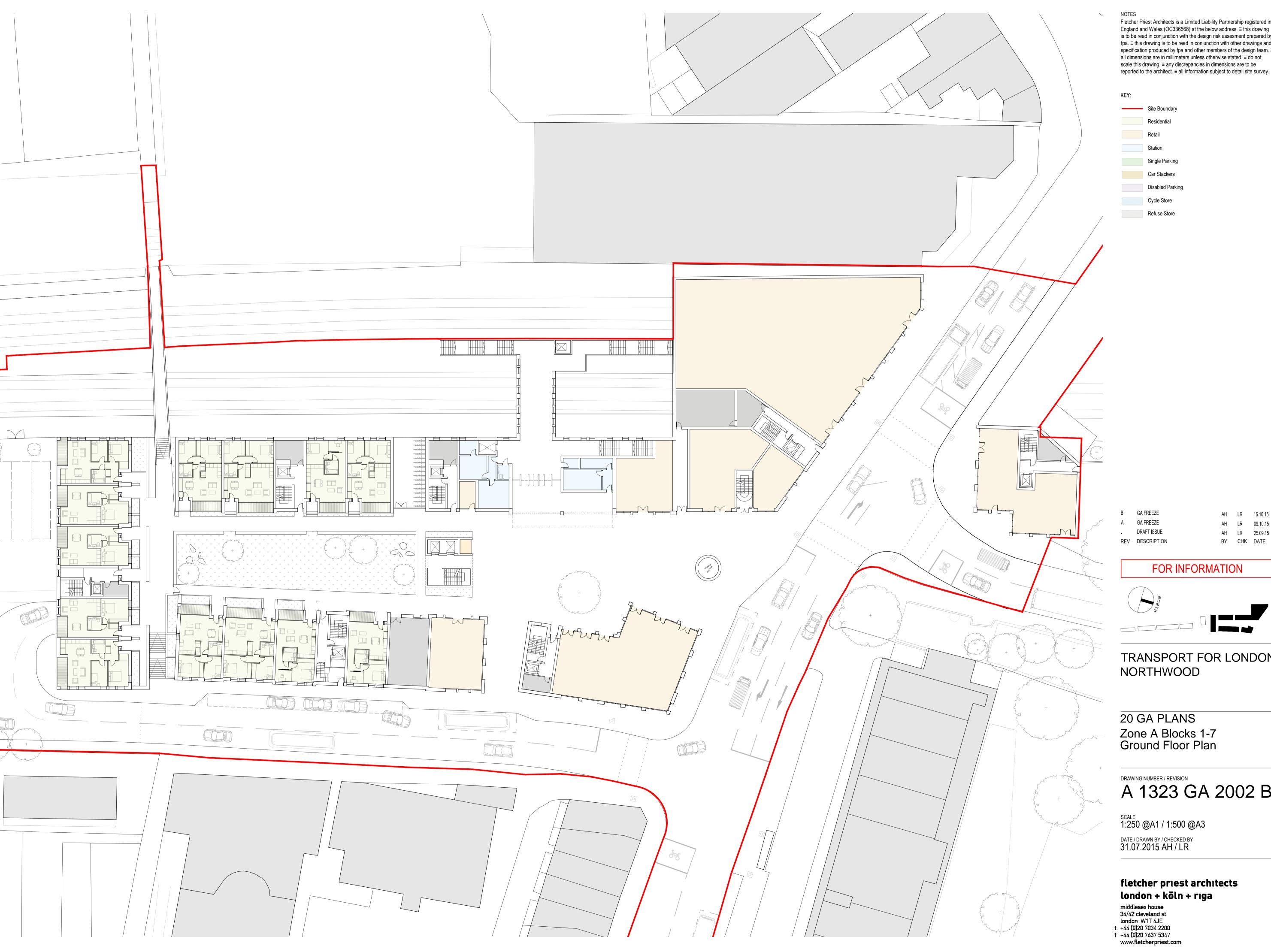
20 GA PLANS
Zone A Blocks 1-7
Lower Ground 1 Floor Plan

A 1323 GA 2001 B

SCALE 1:250 @A1 / 1:500 @A3 DATE / DRAWN BY / CHECKED BY 31.07.2015 RE / LR

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Single Parking

Car Stackers Disabled Parking

Cycle Store

Refuse Store

GA FREEZE DRAFT ISSUE REV DESCRIPTION

AH LR 16.10.15

AH LR 09.10.15

AH LR 25.09.15

BY CHK DATE

FOR INFORMATION

TRANSPORT FOR LONDON NORTHWOOD

20 GA PLANS Zone A Blocks 1-7 Ground Floor Plan

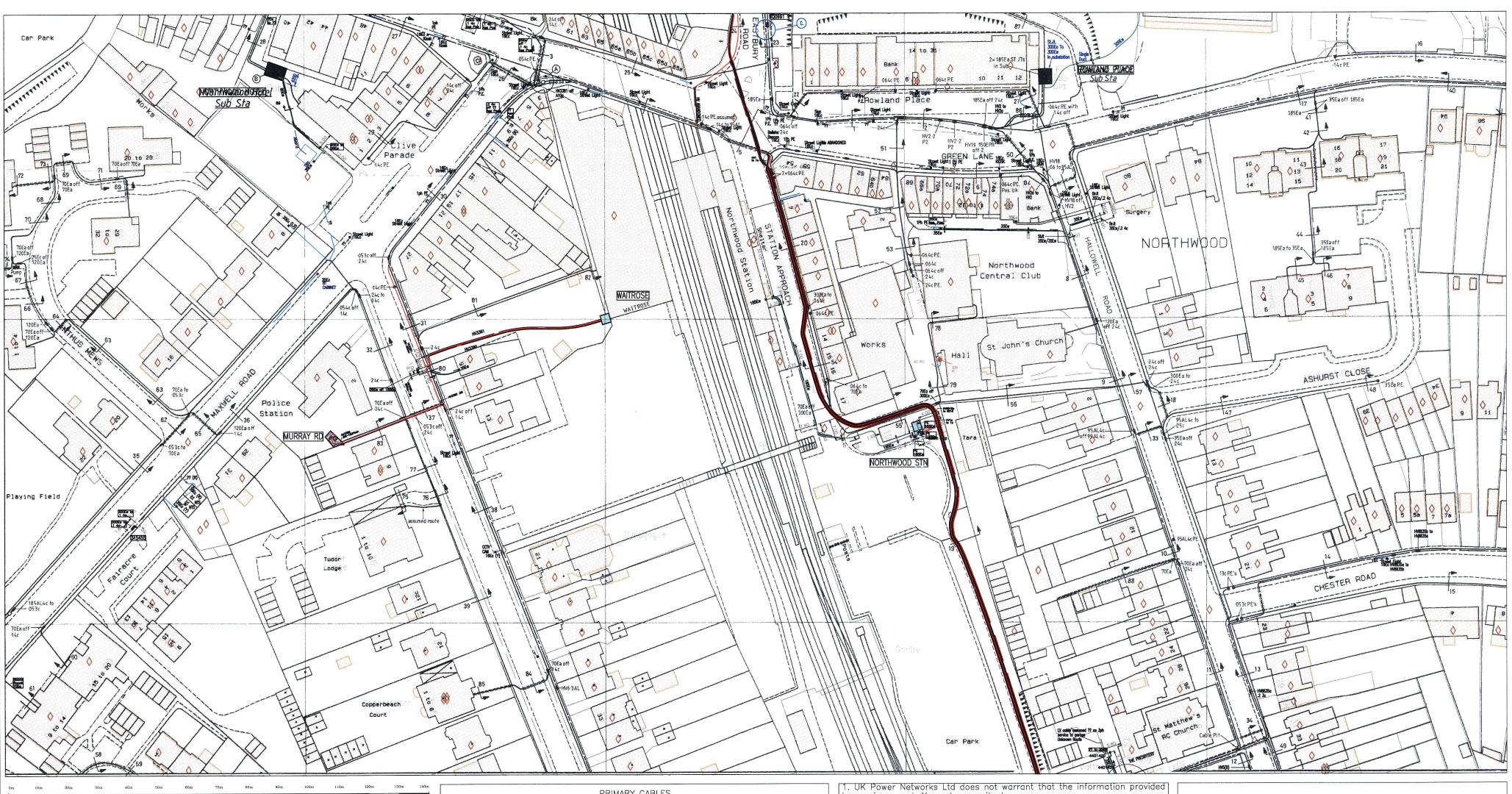
DRAWING NUMBER / REVISION A 1323 GA 2002 B

scale 1:250 @A1 / 1:500 @A3

DATE / DRAWN BY / CHECKED BY 31.07.2015 AH / LR

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Appendix B UKPN Electricity Plan



Plotted On: 19/05/2015

Plotted By : Lynda Blizard

Plot Description: AT NORTHWOOD STATION GREEN LANE NORTHWOOD GREATER LONDON HA6 2XN

2015/2187748

Map Centre : TQ0991SW

UK Power Networks Plan Provision Fore Hamlet **IPSWICH** Suffolk IP3 8AA Tel 0800 0565 866 Fax 08701 963782

Power



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. 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 each property and item of street furniture has an electricity supply.

Service cables shown only where known. 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.

to you is correct. You rely upon it at

your own risk.

2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a 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 Ltd 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

nformation provided whether for physical damage to property or for any economic loss (including without

imitation 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.

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

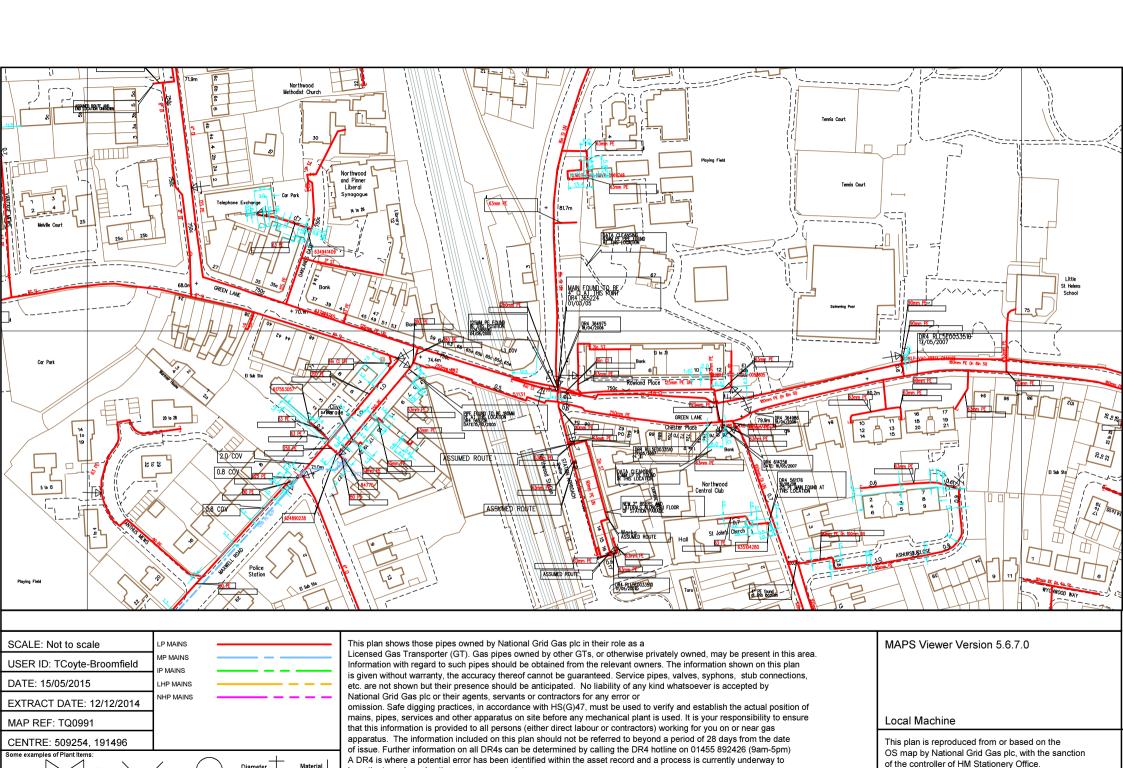
IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY — If you damage a cable or line Phone 0800 780 0780 (24hrs) URGENTLY

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

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.

For details of the symbology please refer to http://www.ukpowernetworks.co.uk/safety—emergencies/in—the—workplace/understanding—safety—symbols.shtml

Appendix C National Grid Gas Plan



Crown Copyright Reserved.

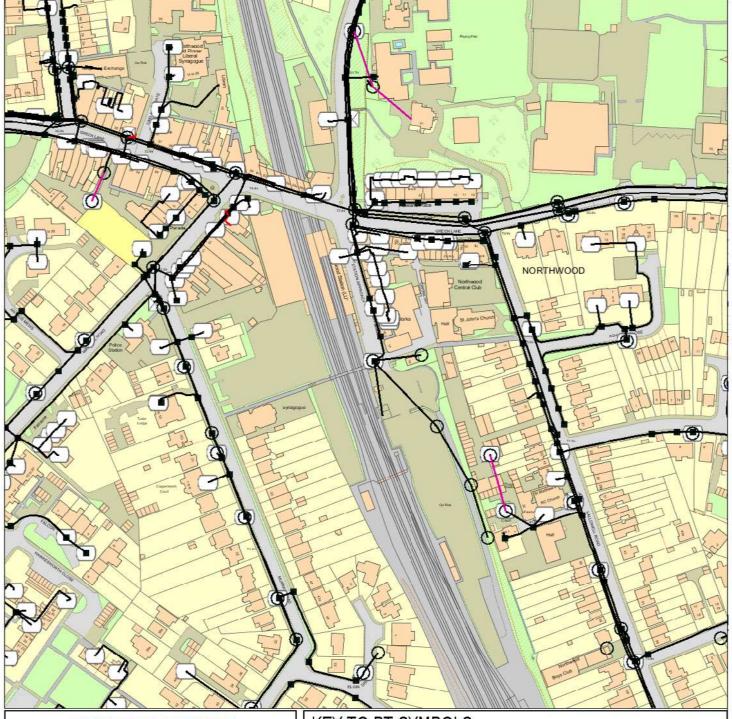
investigate and resolve the error as appropriate.

Depth of

Valve

Appendix D BT Telecoms Plan

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

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY TO BT SYMBOLS

UNDERGROUND PLANT
OVERHEAD PLANT
JOINT BOX

TO DISTRIBUTION POINT

MANHOLE

DR POUNDARY

···—·— DP BOUNDARY OTHER BT BOUNDARY

☐ BURIED JOINT

☐ JOINTING POST

PROPOSED U/G

☑ 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: RSY10403R

Map Reference : (centre) TQ0926491368

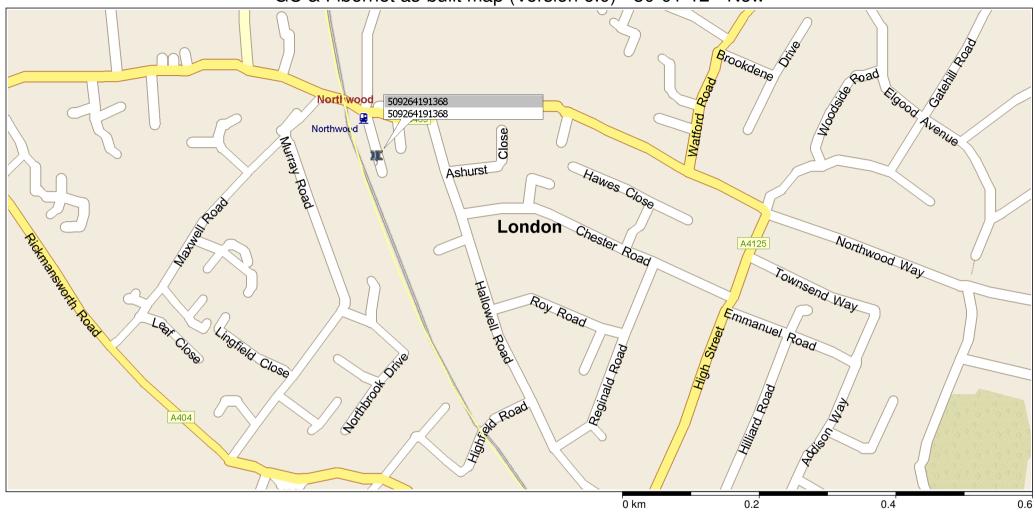
Easting/Northing : (centre) 509264,19136

Issued: 15/05/2015 10:48:02

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

Appendix E Instalcom Telecoms Plan

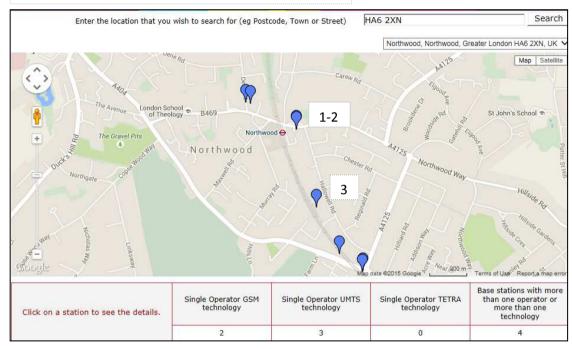
GC & Fibernet as-built map (Version 6.0) - 30-01-12 - New



Appendix F OFCOM Mobile Phone Bases Plan



OFCOM mobile phone bases are located below:



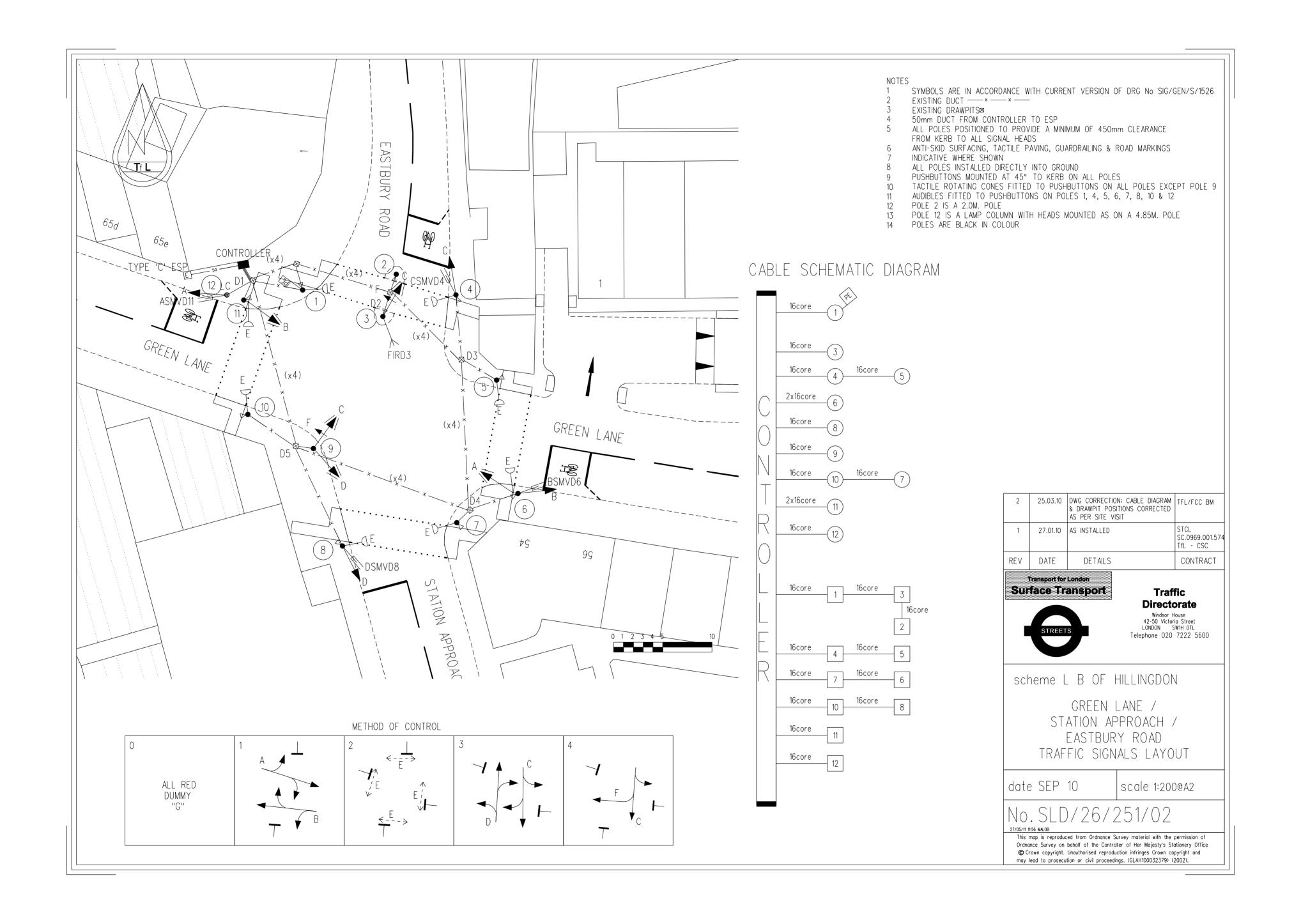


OFCOM

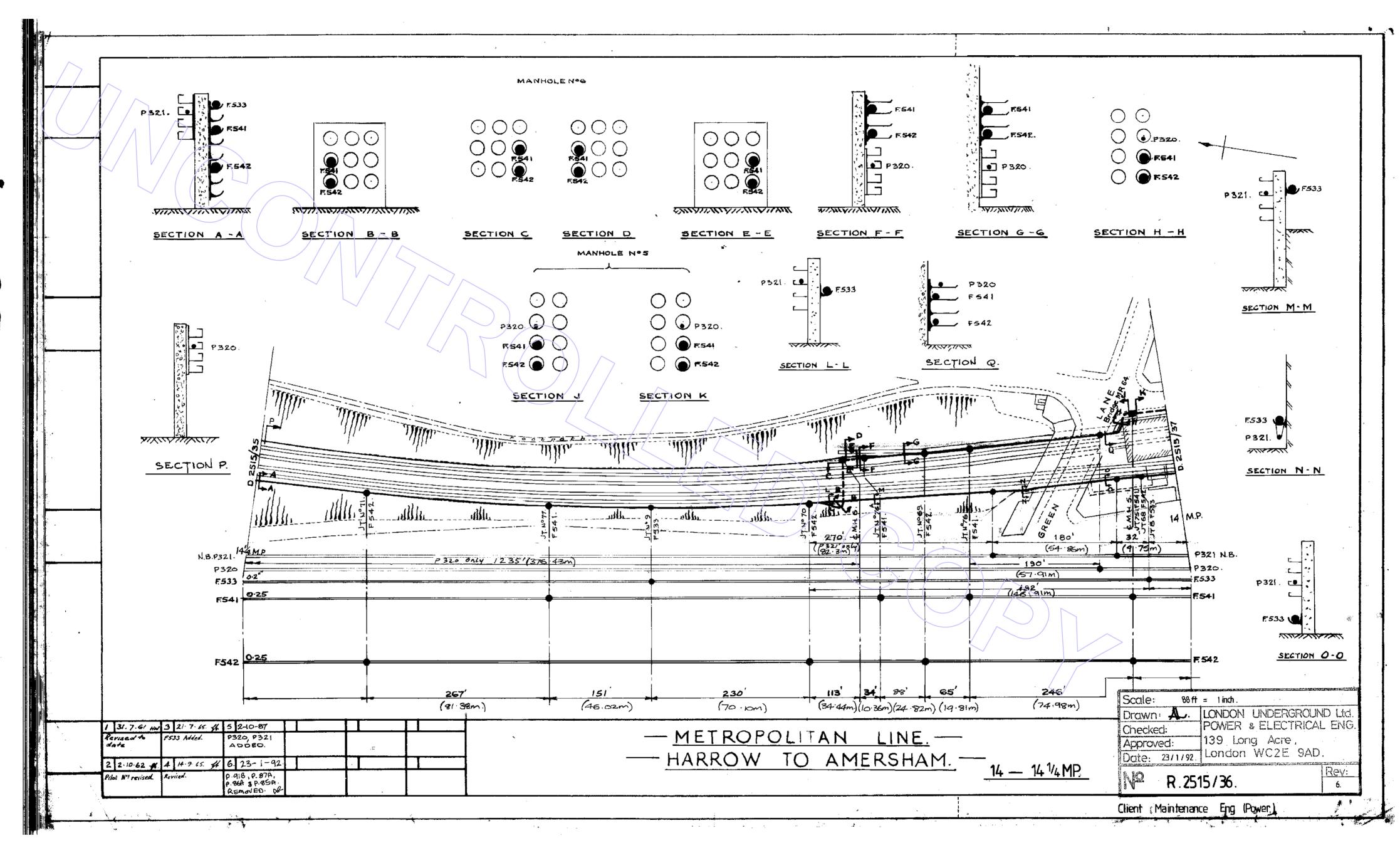
Riverside House 2a Southwark Bridge Road London SE1 9HA

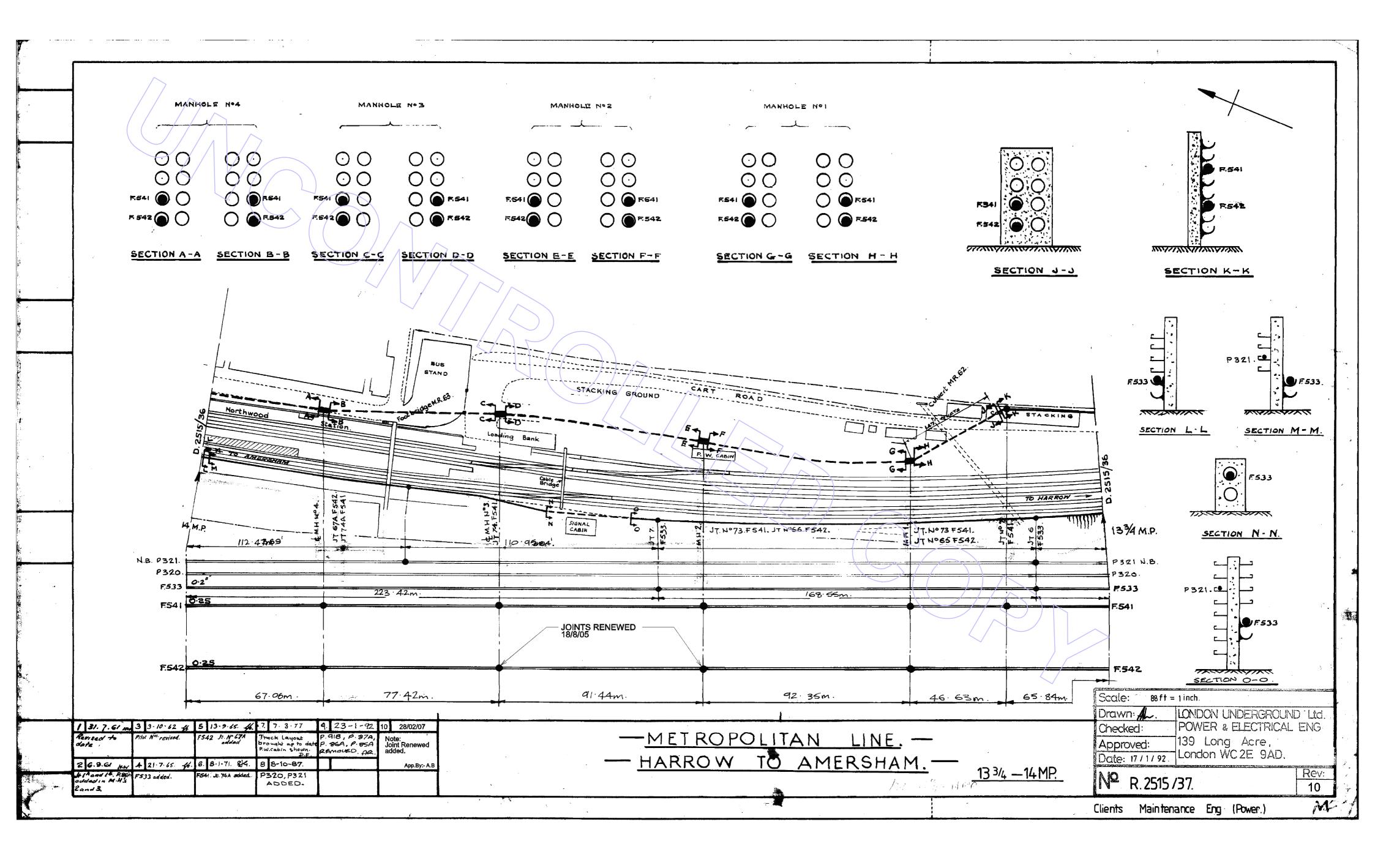
Tel: 020 7981 3040

Appendix G Transport for London Plan

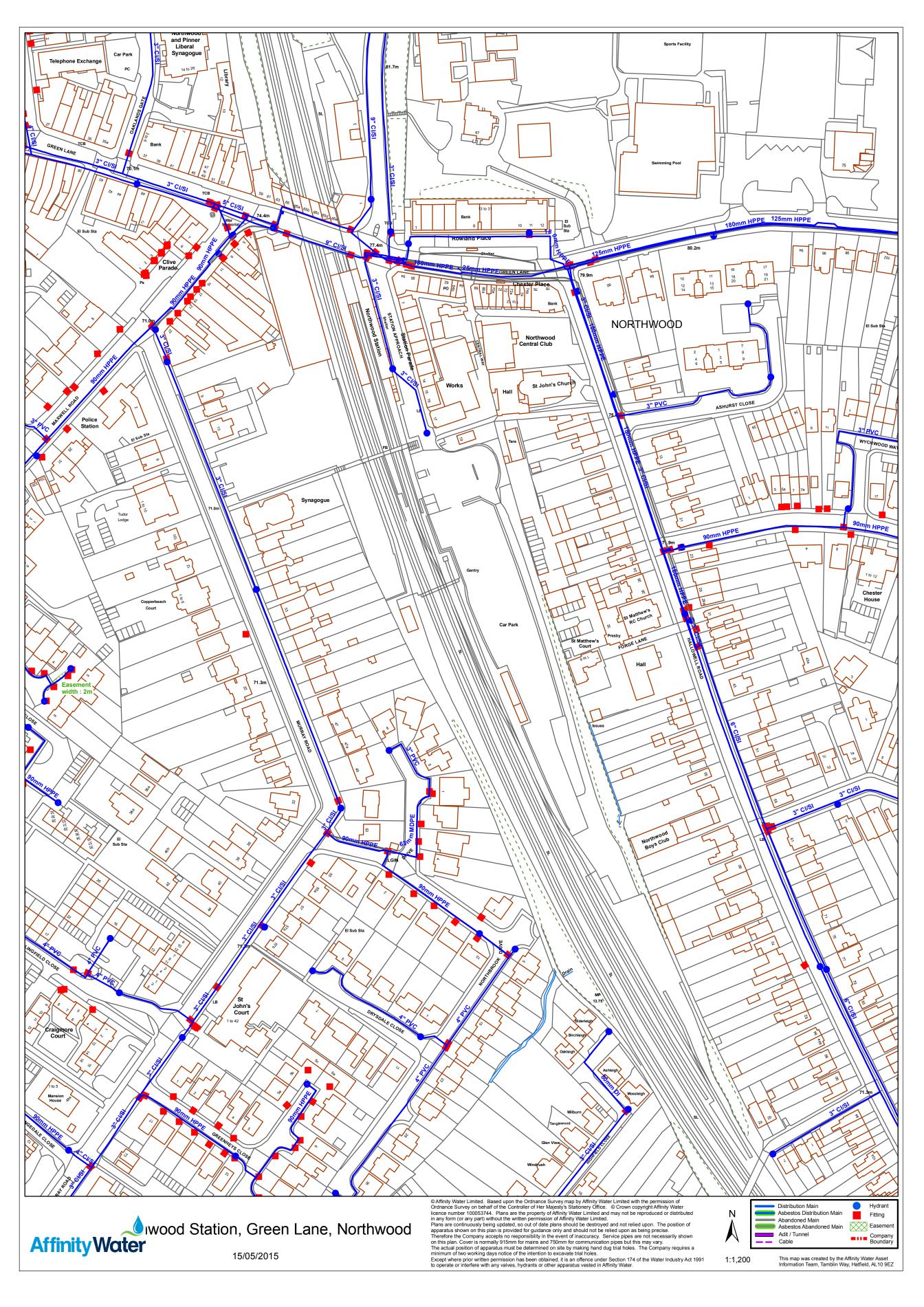


Appendix H London Underground Asset Power Plans





Appendix I Affinity Water – Water Mains Plan



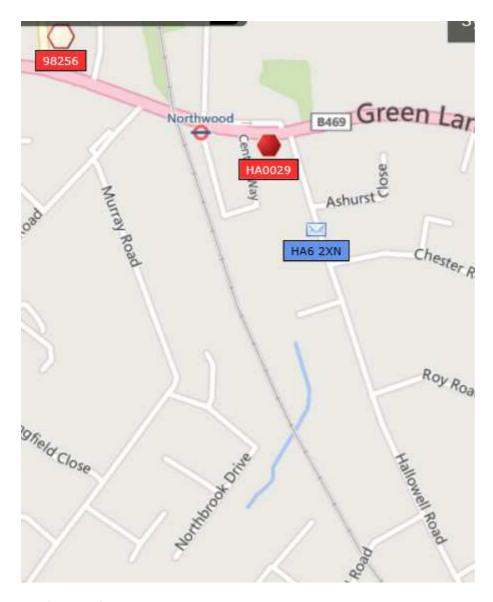
Appendix J Thames Water – Sewers Plan



The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

Appendix K MBNL – Telecoms Plan



Kind Regards

Anthony

Anthony Eyre Consultant

Turner & Townsend

t: +44 (0) 121 262 1100|

http://www.turnerandtownsend.com

From: Debbie Miller [mailto:DMiller@groundwise.com]

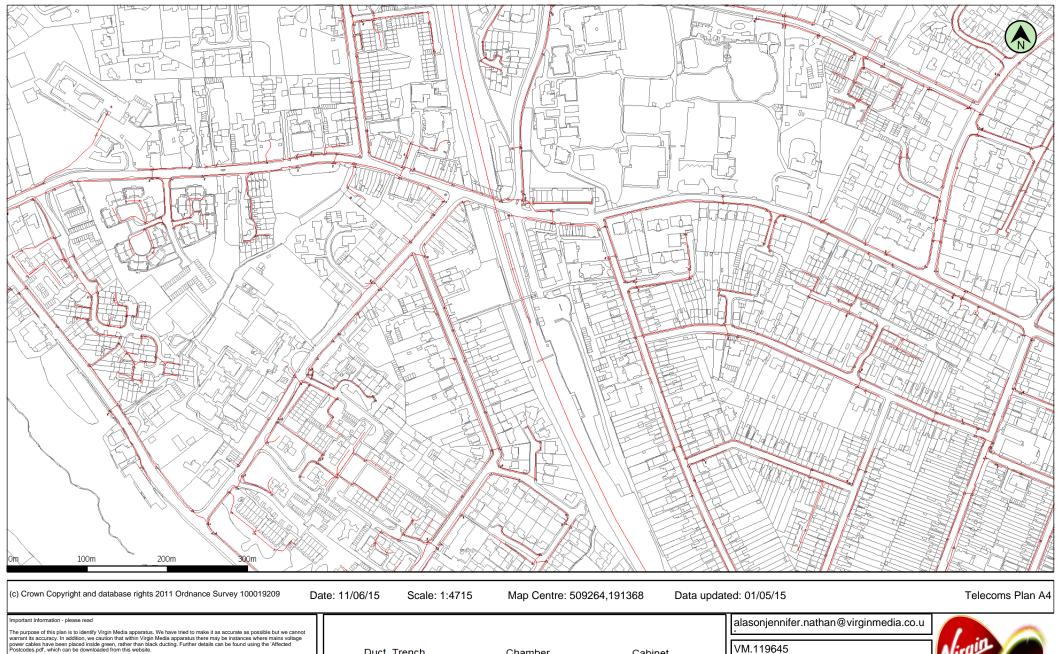
Sent: 15 May 2015 10:19

To: plantenquiries@energetics-uk.com; osm.enquiries@atkinsglobal.com; highwaysadmin@kcom.com; plantenquiries@mcnicholas.co.uk; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; interoute.enquiries@plancast.co.uk; telenttelia.plantenquiries@telent.com; lorraine.mccarthy@eonenergy.com; safeguarding@crossrail.co.uk; LULHVpowerassets@tfl.gov.uk; plantenquiries@psgservices.co.uk; locationenquiries@tube.tfl.gov.uk; plantenquiries@tfl.gov.uk; FPLplantprotection@fulcrum.co.uk; plant.enquiries@cityfibre.com; plantenquiries@catelecomuk.com; NRSWA@bskyb.com; OPBuriedServicesEnquiries@networkrail.co.uk; mbnlplantenquiries@turntown.com; plantenquiries@trafficmaster.co.uk; loip@tfl.gov.uk; DIOODC-LMSSE3@mod.uk; searches@thameswater.co.uk; asset.informationteam@affinitywater.co.uk

Subject: Ref: 15969DM - Site: At Northwood Station, Green Lane, Northwood, Greater London, HA6 2XN

Ref: 15969DM

Appendix L Virgin Media – Telecoms Plan



Important Information - please read
The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cabbles have been placed inside green, rather than black ducting, Further detailact can be found using the Affected Postcodes, pdf., which can be downloaded from this website.

Therefore, you must not rely solve on the plan it you are cerrying out any excavation or other works in the vicinity of Virgin Media. See interployees or agents, Virgin Media all not have any liability for any omissions of inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan.

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In addition of the virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equipment, etc. and established a paratus. The actual position of any underground service must be verified by cable detection equ

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