



Project:
Reading - Palmer Park Sports Centre

Document:
Utility Assessment – Issue 2

Client:
Pellikaan Construction Ltd / GLL (Greenwich Leisure Limited)

Author:
Nick Macina

TLP Project No:
C7402



Thornley & Lumb Partnership Ltd
Building Services Consultant Engineers

Century House
257 Cutler Heights Lane
Bradford
BD4 9JG

Tel: +44 (0) 1274 687 755
Mob +44 (0) 7867 397 322

Email: nick.macina@thornleylumb.co.uk
Website: www.thornleylumb.co.uk

Document Control

Document	Utility Assessment
Project	GLL Palmer Park Stadium – Reading
Client	Pellikaan Construction Ltd / GLL (Greenwich Leisure Limited)
Job Number	C7402

Revision	Issue 1
Document Date	19 th November 2020
Prepared By	Nick Macina
Checked By	Martin Thornley
Description of Revision	First Issue

Revision	Issue 2
Document Date	25 th November 2020
Prepared By	Nick Macina
Checked By	Martin Thornley
Description of Revision	Minor Amendments to suit comments & plan updates

CONTENTS

1.	INTRODUCTION.....	1
2.	DEVELOPMENT DESCRIPTION.....	1
3.	AIMS & OBJECTIVES.....	1
4.	METHODOLGY.....	1
5.	PRE DEVELOPMENT ENQUIRIES	1
6.	EXISTING SITE UTILITIES.....	2
7.	DIVERSIONARY WORKS.....	2
8.	PROPOSED SITE UTILITIES	2
9.	CONCLUSIONS.....	3
10.	APPENDICES	3



1. INTRODUCTION

This utilities report has been prepared by Thornley & Lumb Partnership on behalf of Pellikaan Construction Ltd to support a planning application for a new 2 storey leisure centre & swimming pool adjacent the existing band stand and changing facilities on the existing land.

2. DEVELOPMENT DESCRIPTION

The proposed development consists of a new 2 storey viewing Hub & leisure centre facility incorporating an open area gym, wet and dry changing facilities, 25m swimming pool, soft play viewing area and a public café.

The development is located in Reading Borough Council and as such will be subject to local planning Conditions defined by Reading Borough Council



Figure 1 – Existing Site Location (Proposed extension outlined in red)

3. AIMS & OBJECTIVES

The development will also make use of, as far as possible, the existing infrastructure (sewerage, water services, road network etc) within the site and adjoining areas in order to minimize the impact on the existing users and the Environment, thus promoting sustainable development.

4. METHODOLOGY

As the site is an existing site servicing of the site is not seen as an issue although information was requested from various statutory providers to confirm where any infrastructure can be found.

5. PRE-DEVELOPMENT ENQUIRIES

Pre-development enquiries were submitted to the following statutory undertakers

Electricity	Scottish & Southern Electricity (SSE)
Gas	Scotia Gas Networks (SGN)
Water	Thames Water (TW)
Telecoms	BT / Virgin



6. EXISTING SITE UTILITIES

Existing Service Drawings can be found in Appendix A at the rear of this report, approximate routes have been identified from the historical recorded information provided by the utilities companies and need to be finally located by CAT Scanning & Hand Digging prior to any works taking place.

See relevant guidance contained in: -

- BS 6031:2009 Code of Practice for Earthworks
- HSG47 – HSE Avoiding Danger from Underground Services
- NJUG 0 Best Practice Guidelines

Electrical Infrastructure

There is an existing substation on the Wokingham Road Stadium site, a quotation has been provided by SSE (Ref ERK120/1) for the following: -

- Install approx. 101m of 185WC cable to divert the existing cable away from the customer's development zone
- All excavation work by customer

The existing services fouling the footprint of the proposed new development will be diverted & removed prior to commencement on site

Gas Infrastructure

There is an existing gas supply located on site a quote has been provided by SGN (Ref 2084524) for the following:-

- Disconnection of gas supply

SGN to disconnect 1 x 90mm service from the main as per site survey.

Water Infrastructure

The existing water service is fed from an existing service derived from Wokingham road,

The existing service will be disconnected and made safe prior to demolition, if required the existing service will be utilised for site temporary water and reconnected subject to agreement on completion.

Fire Hydrant

Existing Single Fire Hydrants on St Bartholomew's Road.

Openreach Infrastructure

The existing BT Service will be disconnected prior to commencement.

7. DIVERSIONARY WORKS

There are several utility diversions associated with the site as identified above and recorded on TLP Drawing No: C7402-TLP-RM-00-DR-ME-901

All the required disconnection works will be captured via the above diversions / disconnection's quotations supplied by the utility providers.

8. PROPOSED SITE UTILITIES

Electrical Infrastructure

A Budget quotation has been provided by SSE (Ref ERF763/2) which allows for a new 500 KVA Substation, south of the existing bandstand, to serve the development with LV Supplies to the following: -

- New Leisure Centre – 220kVa

SSE Budget costs are based on the following: -

- SSE to dismantle & remove existing 315kVA substation & replace with a new 500kVA substation.
- All on site excavations and reinstatements by customer.



Gas Infrastructure

A quotation has been provided by SGN (Ref 2010297) which allows for new LP gas supplies to serve the development with connections for the following: -

- New Leisure Centre – 600 KWH

SGN costs are based on the following: -

- SGN to connect to the existing 12" ST LP main in the footpath of Wokingham Road
- install a new PE LP single valve service across the public footpath and road, entering the site.
- Terminate externally in a Kingsley No.5 Free Standing Kiosk with a 2" Capped ECV.
- No meter or meter works are included in this quote.
- SGN to supply & fit 1x No.5 free standing kiosk.
- Customer to supply & fit 1x suitable kiosk base.
- SGN will provide all excavation and reinstatement of the trenches up to your site boundary.

The Gas meters will be located at the boundary of the site house within a suitable weatherproof enclosure. Final location TBC

Water Infrastructure

A detailed survey of the site has been organised to confirm a suitable point of connection. We await a quotation from Thames Water (Ref DS6072004) for new clean water supplies to serve the site: -

- New Leisure Centre – supply request 30m³/day (2l/s)

The Water meter will be located below ground within the boundary of the site. Final location TBC.

New Fire Hydrant

Subject to scheme agreement and Building Control Approval.

We have requested 1 No single hydrant to be located within the site. Awaiting Thames water proposals.

NB: Existing Single Fire Hydrants on St Bartholomew's Road.

Openreach Infrastructure

On behalf of the client TLP shall liaise with the telecoms operator to arrange new incoming lines via BT/Openreach's Network to serve the new development fed from the existing highway infrastructure.

The site has been registered with Openreach and A quotation is awaited for the new connection.

- Openreach New Sites Ref: TBC

The proposed new utilities connections are detailed on TLP Drawing No: C7402-TLP-RM-00-DR-ME-902

9. CONCLUSIONS

It is considered from the above investigations that the necessary services can be provided for the above proposed new leisure centre development.

10. APPENDICES

APP A1 - Drawing C7402-TLP-RM-00-DR-ME-902

APP A2 - SSE Electricity HV (ELEC)

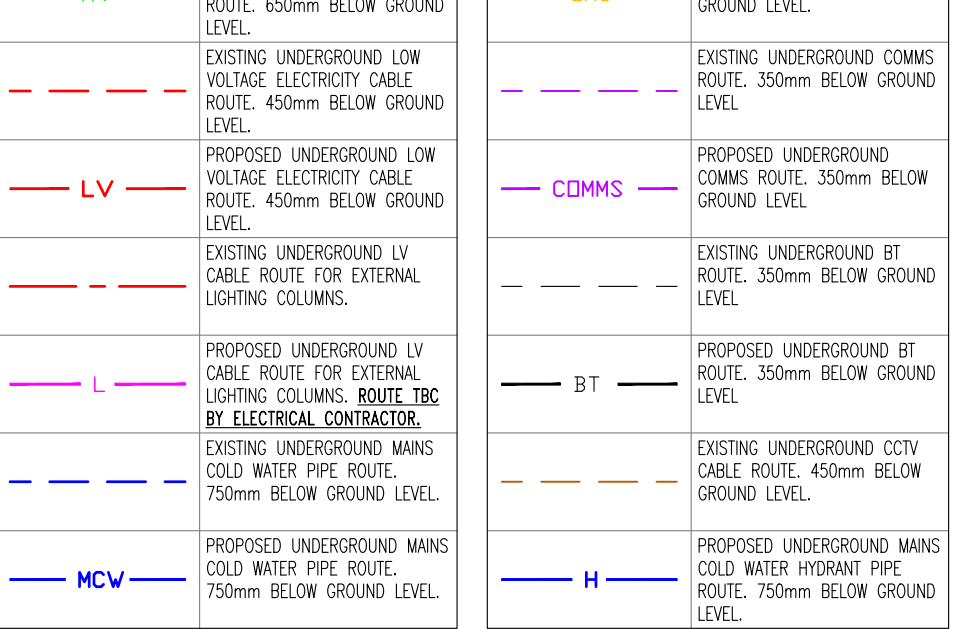
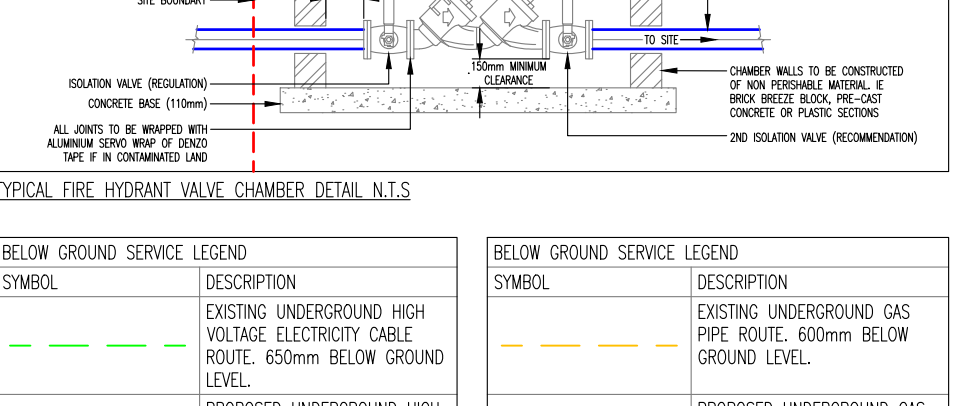
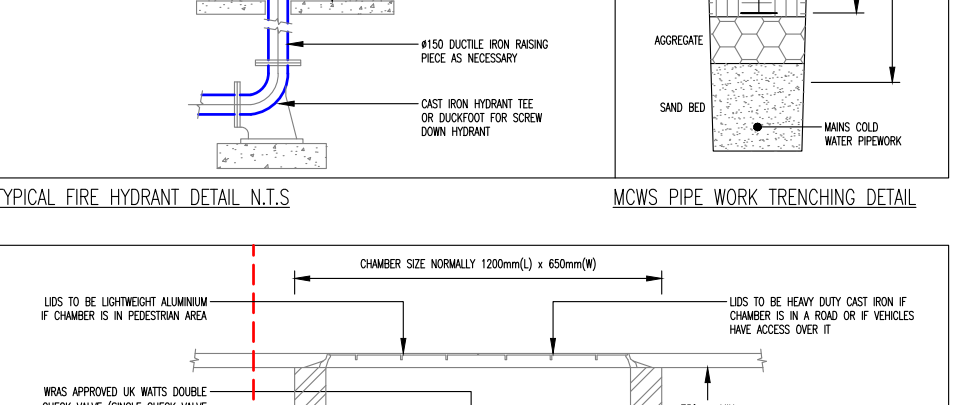
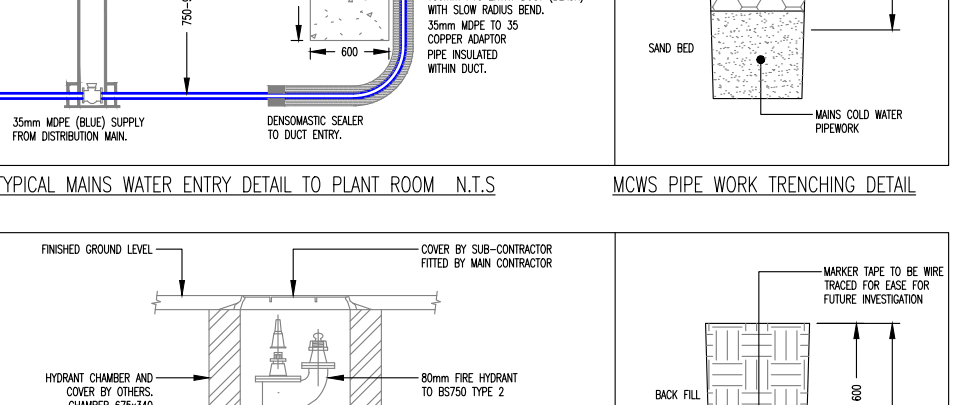
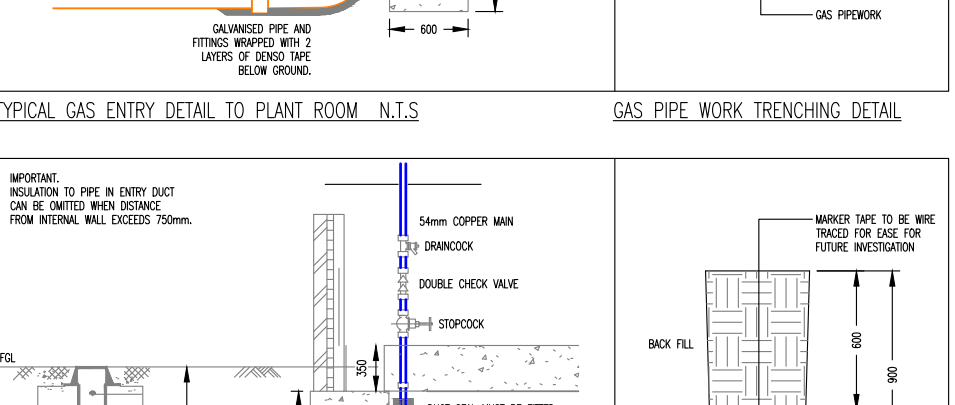
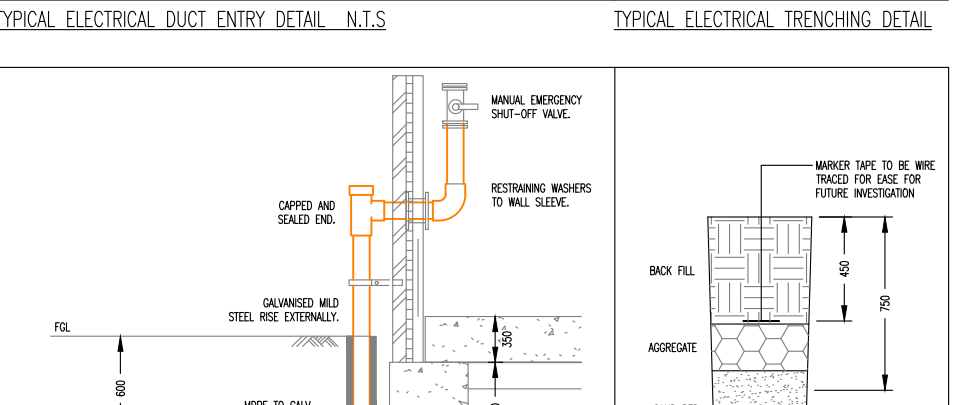
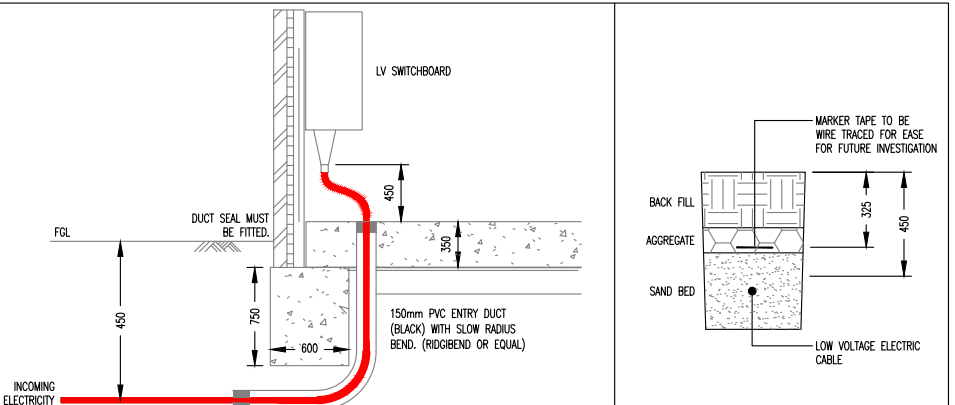
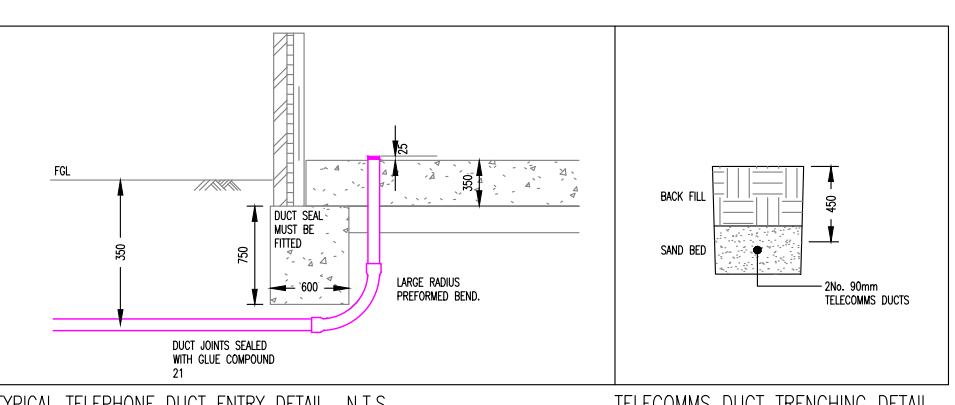
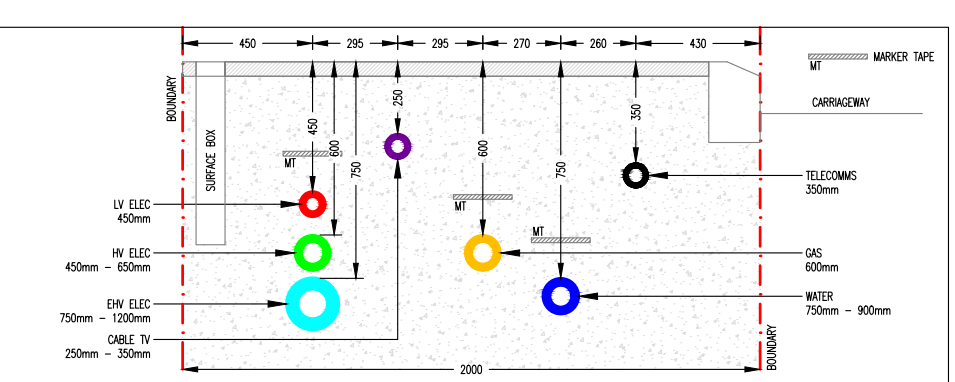
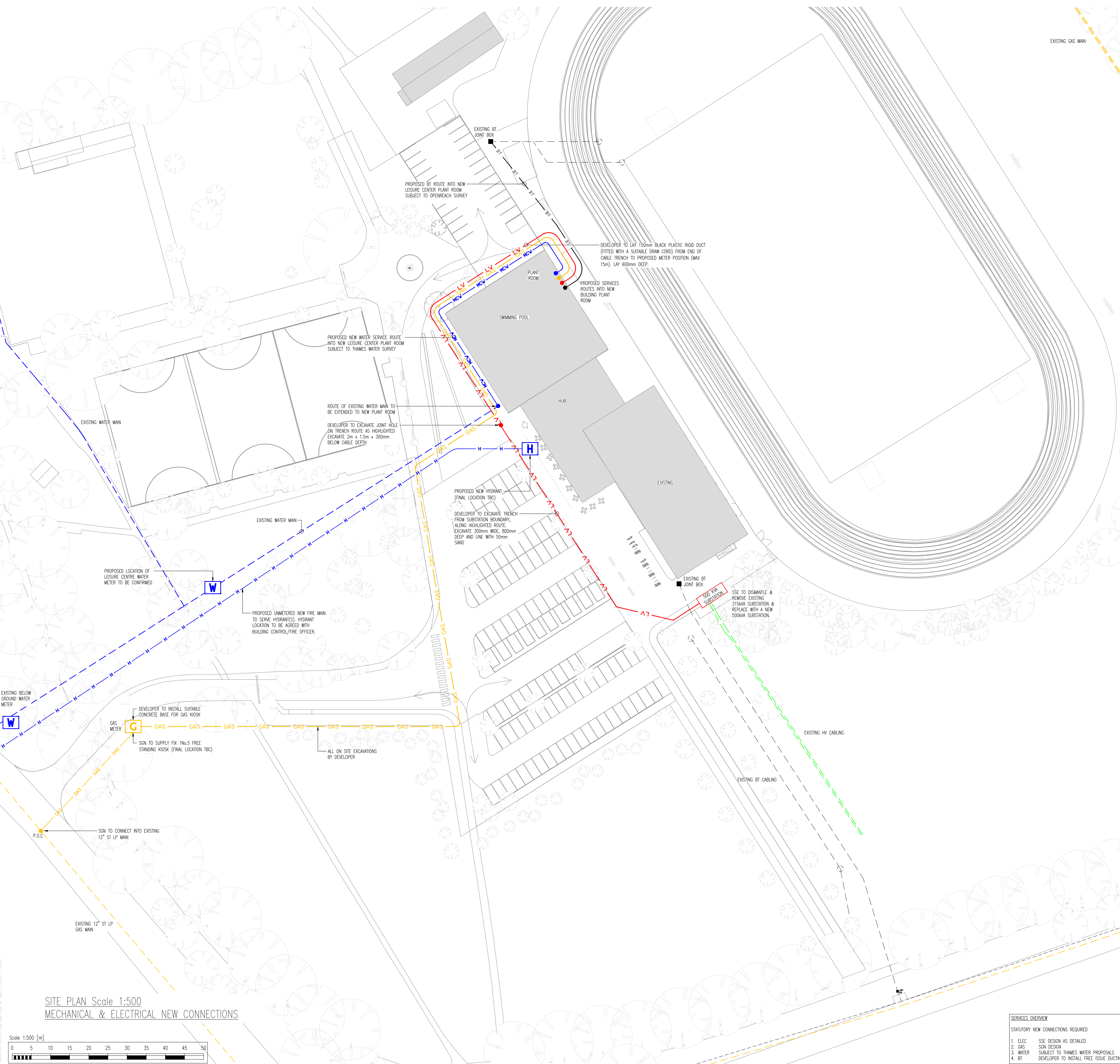
APP A3 - SSE Electricity LV (ELEC)

APP A4 – SGN (GAS)

APP A5 – Thames Water (WATER)

APP A6 – BT (TELECOMS)

APP A7 – BT (TELECOMS)



THIS DRAWING IS PROTECTED UNDER COPYRIGHT AND AT NO TIME MUST ANY PORTION OF THIS DRAWING BE REPRODUCED OR COPIED IN ANYWAY WITHOUT THE WRITTEN CONSENT OF THORNFLEY & LUMB PARTNERSHIP LIMITED.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE AND MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING. THIS DRAWING IS TO BE READ IN ACCORDANCE WITH ALL RELEVANT SPECIFICATIONS AND ROOM DATA DOCUMENTS.

NOTES

THE GENERAL ELECTRICAL INSTALLATION WORK SPECIFICALLY HAS BEEN INSTALLED AND CONFORMS TO/COMPLIES WITH, THE FOLLOWING CURRENT STANDARDS, REGULATIONS AND ALL RECOMMENDATIONS COVERED UNDER BRITISH STANDARDS, UNLESS OTHERWISE DETAILED ELSEWHERE IN THIS SPECIFICATION:-

- THE REGULATIONS FOR ELECTRICAL INSTALLATIONS, LATEST EDITION, AS ISSUED BY THE INSTITUTION OF ENGINEERING AND TECHNOLOGY, (HEREINAFTER REFERRED TO AS THE IET 17TH EDITION WIRING REGULATIONS BS7671).
- THE REGULATIONS OF UK AND RELATED GOVERNING BODIES
- THE ELECTRICITY SUPPLY REGULATIONS 1937.
- THE ELECTRICITY SUPPLY AUTHORITY GENERAL AND LOCAL REQUIREMENTS.
- ALL RELEVANT BRITISH STANDARD SPECIFICATIONS AND CODES OF PRACTICE.
- LOCAL FIRE OFFICERS REQUIREMENTS
- THE FIRE PRECAUTIONS (WORKPLACE) REGULATIONS 1997.
- THE ELECTRICITY SUPPLY AUTHORITY GENERAL AND LOCAL REQUIREMENTS.
- DISABILITY & DISCRIMINATION ACT (DDA)
- BS5366-1 2011 EMERGENCY LIGHTING
- PART L2B - EXISTING NON DWELLING 2011
- ALL SUBSEQUENT AMENDMENTS TO THE ABOVE.

GENERAL

ALL ON-SITE TRENCHES SHALL BE EXCAVATED AND BACKFILLED WITH CLEAN MATERIAL BY THE GROUNDWORKS CONTRACTOR TO THE SATISFACTION OF THE C.A.

TRENCHES SHALL BE EXCAVATED TO ALLOW FOR A SAND BED LAYER OF 50MM THICKNESS UNLESS OTHERWISE INDICATED.

WHERE DUCTS ARE WITHIN BUILDING STRUCTURE OR BELOW HIGHWAYS ETC, THE DEPTH AND LOCATION SHALL BE CONFIRMED BY THE STRUCTURAL ENGINEER REGARDING CONSTRUCTION SUITABILITY.

ALL SERVICES BELOW HIGHWAYS OR CONCRETE HARD STANDING SHALL BE INSTALLED WITHIN TWIN WALLED RIGIDUCTS

ALL INFORMATION ILLUSTRATED ON THIS DRAWING IS INDICATIVE & THE CONTRACTOR SHALL ENSURE THAT EXISTING SITE SERVICES ARE LOCATED BY C.A.T. SCAN OR OTHER METHODS AS APPROPRIATE, SO AS TO ENABLE ANY LIVE SUPPLY SERVING ADJACENT PROPERTIES TO BE MAINTAINED.

ALL NECESSARY TRIAL HOLES EXCAVATED TO LOCATE PRIVATE SITE SERVICES SHALL BE DUG BY HAND AND THE RESULTS RECORDED ON EXISTING SITE SERVICES DRAWING.

WHERE EXCAVATING IN THE VICINITY OF LIVE SITE SERVICES APPROPRIATE HEALTH & SAFETY REQUIREMENTS SHALL BE APPLIED AT ALL TIMES.

WHERE EXCAVATING CLOSE TO STATUTORY AUTHORITY SUPPLIES THE AUTHORITIES HEALTH & SAFETY REQUIREMENTS SHALL BE APPLIED.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH STATUTORY AUTHORITY DRAWINGS.

THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORK.

WATER SERVICES

ALL BURIED WATER SERVICES SHALL BE INSTALLED USING 'BLUE' MEDIUM DENSITY POLYETHYLENE PIPES (MDPE) TO BS 6572 LAID WITH A MINIMUM COVER OF 900mm & METAL TRACE MARKER TAPE TO B.E INSTALLED OVER THE FULL LENGTH OF PIPEWORK RUN (IDENTIFIABLE FROM GROUND LEVEL). THE ON-SITE MAINS SHALL BE SUBJECTED TO A PRESSURE TEST OF 10 BAR PRIOR TO BACKFILLING COMMENCING AND SHALL BE WITNESSED BY THE C.A. A FINAL TEST SHALL BE CARRIED OUT ON COMPLETION. A CHLORINATION INJECTION TEE SHALL BE PROVIDED ON THE WATER MAINS AT THE CONNECTION POINT TO THE SUPPLY PIPE. CHLORINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ELECTRICAL SERVICES

ALL NEW ELECTRICAL DUCTS SHALL BE RIGIDUCT TYPE COMPLETE WITH EASYSWEEP BENDS

ALL NEW ELECTRICAL DUCTS SHALL BE PROVIDED A MINIMUM 2xNo. DRAW CORDS

THIS DRAWING IS PRODUCED IN ACCORDANCE WITH ARCHITECTS/MAIN CONTRACTORS DRAWING REFERENCE

1789-SBA-PP-XX-DR-A-5003 Rev-N

A	FIRE MAIN ADDED & UPDATED TO LATEST ARCHITECT PLANS	TVC	JF	25.11.20
REV.	DESCRIPTION	DRN	CHK	DATE

PLANNING

Client
Pelikaan Construction Ltd
38 Graemesdyke Avenue
East Sheen
London, SW14 7BJ
Tel: 0208 392 9355
Email: info@pelikaan.co.uk

Architect
Saunders Boston Architects
Eastern Gate House
119 Newmarket Road
Cambridge, CB5 8HA
Tel: 01223 367 733
Email: office@saundersboston.co.uk

Pellikaan
DESIGN • BUILD • OPERATE

sba

Thornley & Lumb
Mechanical and Electrical Consultant Engineers
Century House
257 Cutler Heights Lane
Bradford
West Yorkshire
BD4 9JG
Telephone: 01274 687755
www.thornleylumb.co.uk
cad@thornleylumb.co.uk

Project Number
C7402

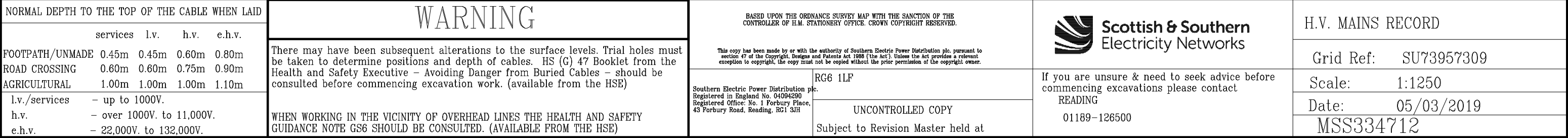
Project Name
Reading
Palmer Park Sport Centre

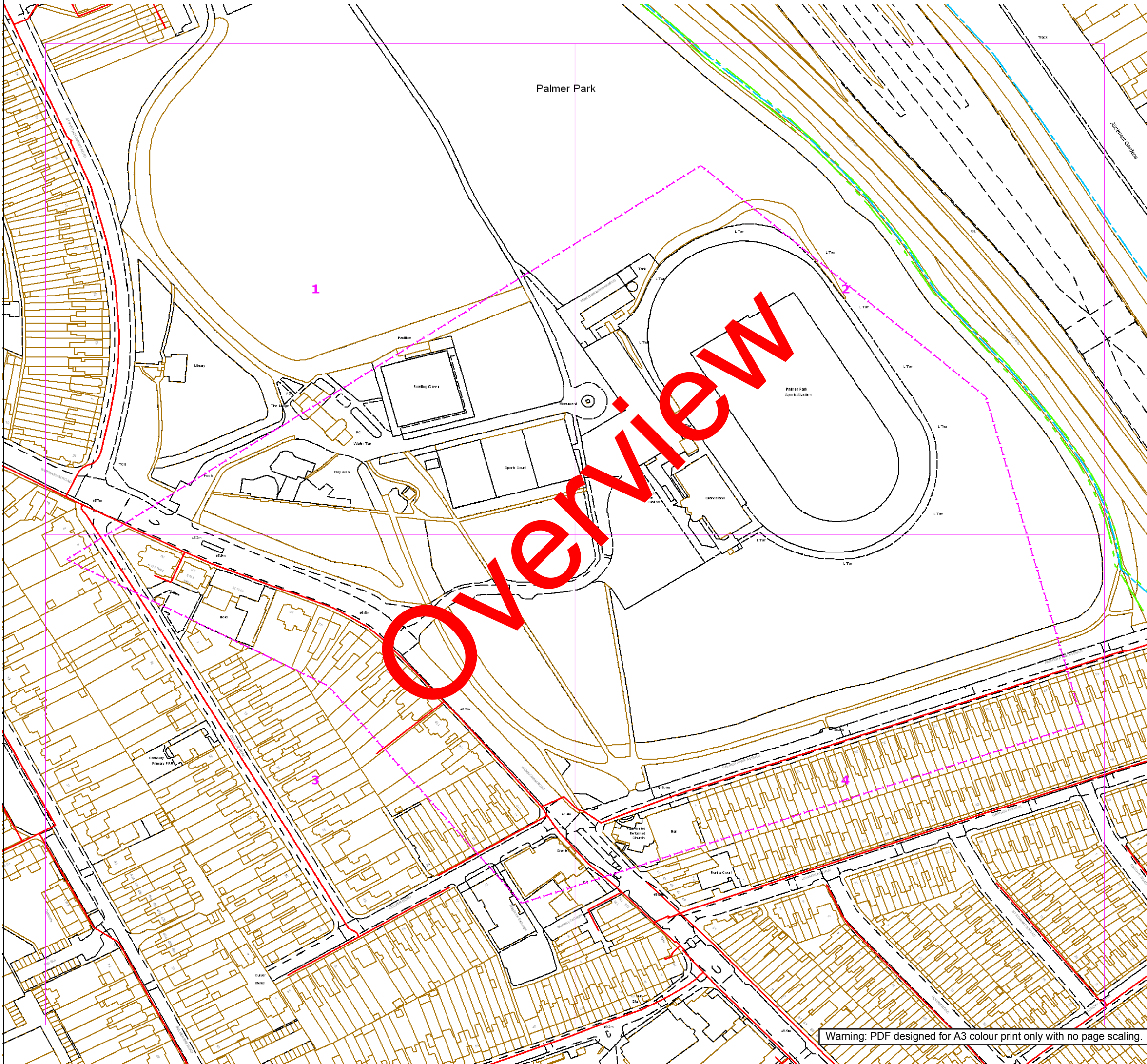
Drawing Title
Site Plan - NEW CONNECTIONS
Mechanical & Electrical Site Services Layout

Engineer	NM	Checked by	MT	Drawn By	TVC
Date	08.09.20	Scale	1:500	Size	A1

Drawing Number
C7402 - TLP - PP - 00 - DR - ME - 902 A

Project	Originator	Volume	Level	Type	Role	Number	Revision
C7402	TLP	PP	00	DR	ME	902	A





SGN
Your gas. Our network.

Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 04/03/2019
Job Reference: 14976471
Site Location: 473841 173008
Requested by:
Mr Tony Cochranre
Your Scheme/Reference:
C7402 - GLL Palmer Park Reading

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LA's

GT's

SSSIs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

Material Change

Digsite:

Line:

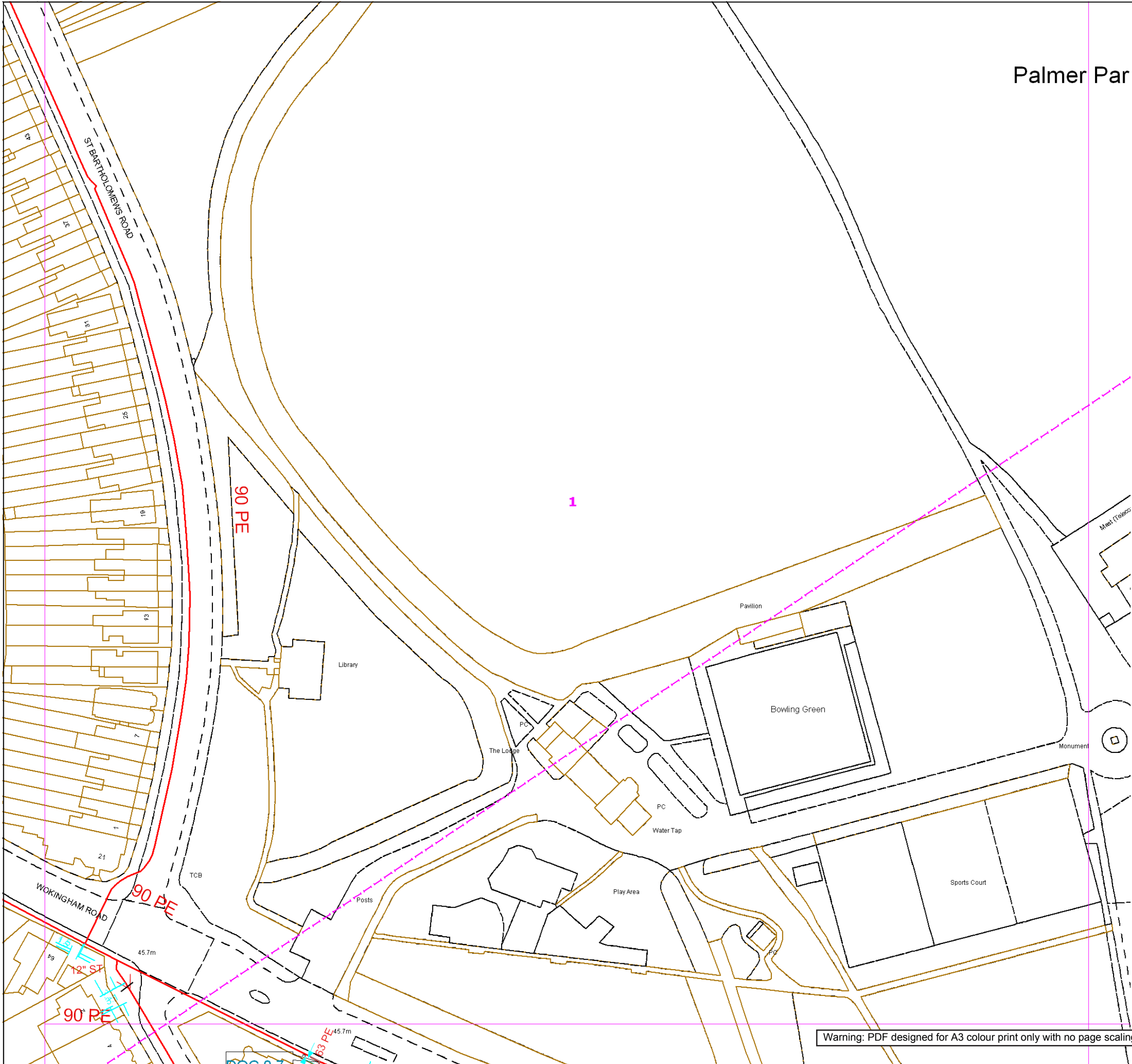
Area:



Lineasearch
before u dig

This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.

Warning: PDF designed for A3 colour print only with no page scaling.



Palmer Par



SGN
Your gas. Our network.

Contact Us

Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 04/03/2019
Job Reference: 14976471
Site Location: 473841 173008
Requested by:
Mr Tony Cochranre
Your Scheme/Reference:
C7402 - GLL Palmer Park Readingeading
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

- Low Pressure Mains
- Medium Pressure Mains
- Intermediate Pressure Mains
- High Pressure Mains

LAs
GTs

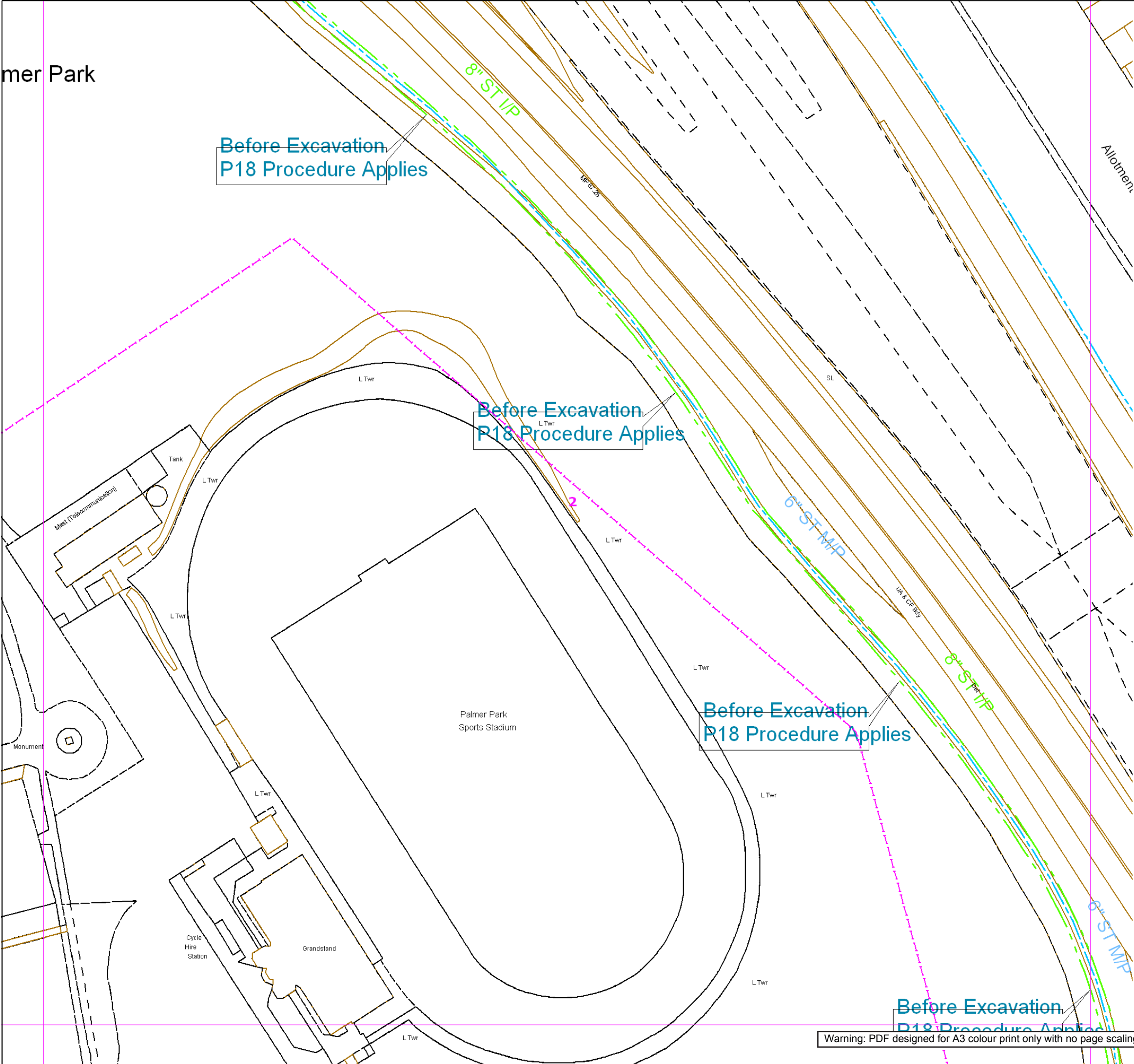
Some Examples Of Plant Items
Valve Syphon Depth of Cover Diameter Change Material Change

Digsite: Line: Area:



This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.

Warning: PDF designed for A3 colour print only with no page scaling.



SGN

Your gas. Our network.

Contact Us
Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 04/03/2019
Job Reference: 14976471
Site Location: 473841 173008
Requested by:
Mr Tony Cochranre
Your Scheme/Reference:
C7402 - GLL Palmer Park Readingeadingeading
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs

SSSIs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

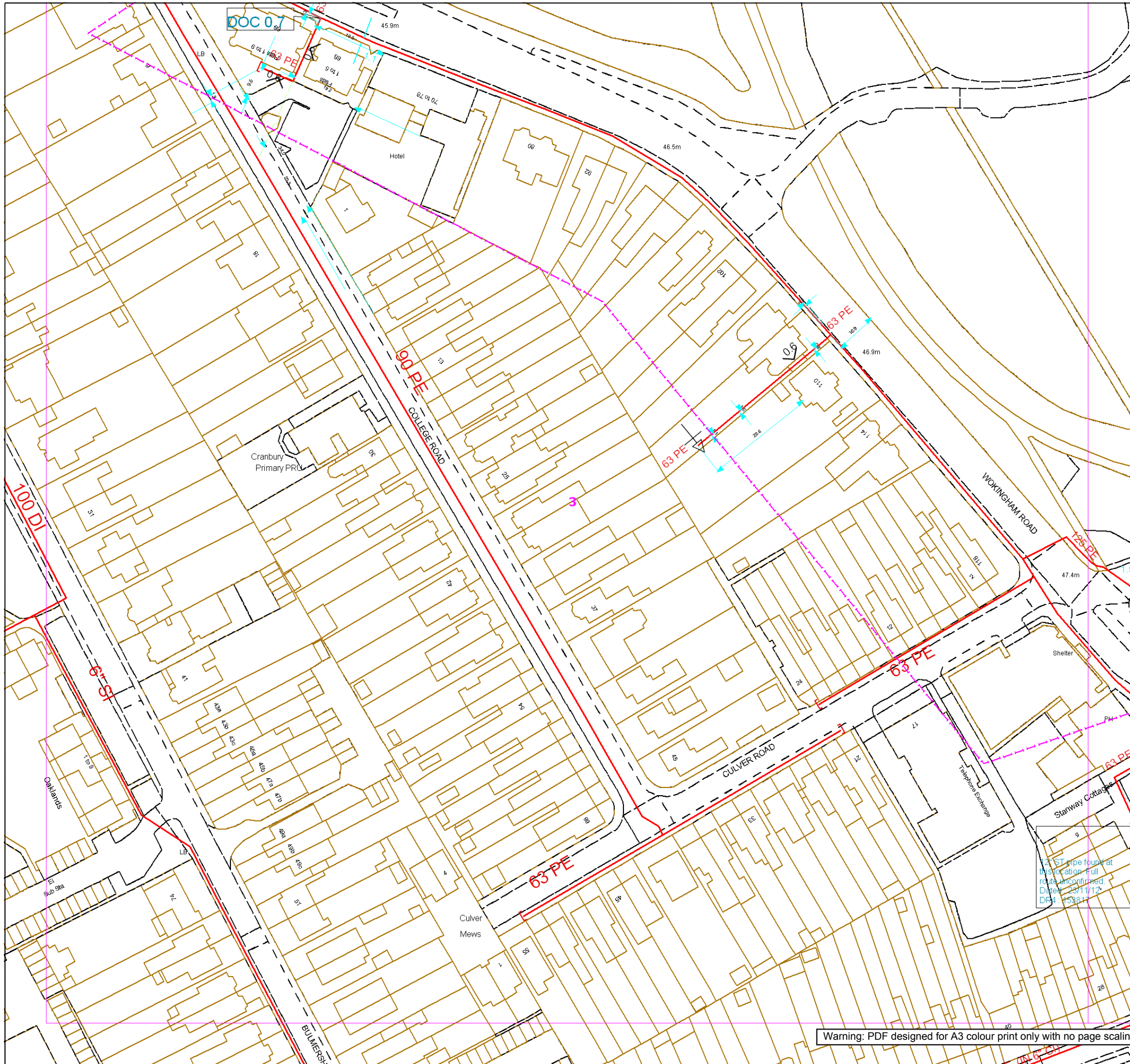
Material Change

Digsite: Line:

Area:



This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.



Contact Us
Mapping Enquiries: All areas
General Enquiries: All areas

Date Requested: 04/03/2019
Job Reference: 14976471
Site Location: 473841 173008
Requested by:
Mr Tony Cochranre
Your Scheme/Reference:
C7402 - GLL Palmer Park Readingeadingeadingeading
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

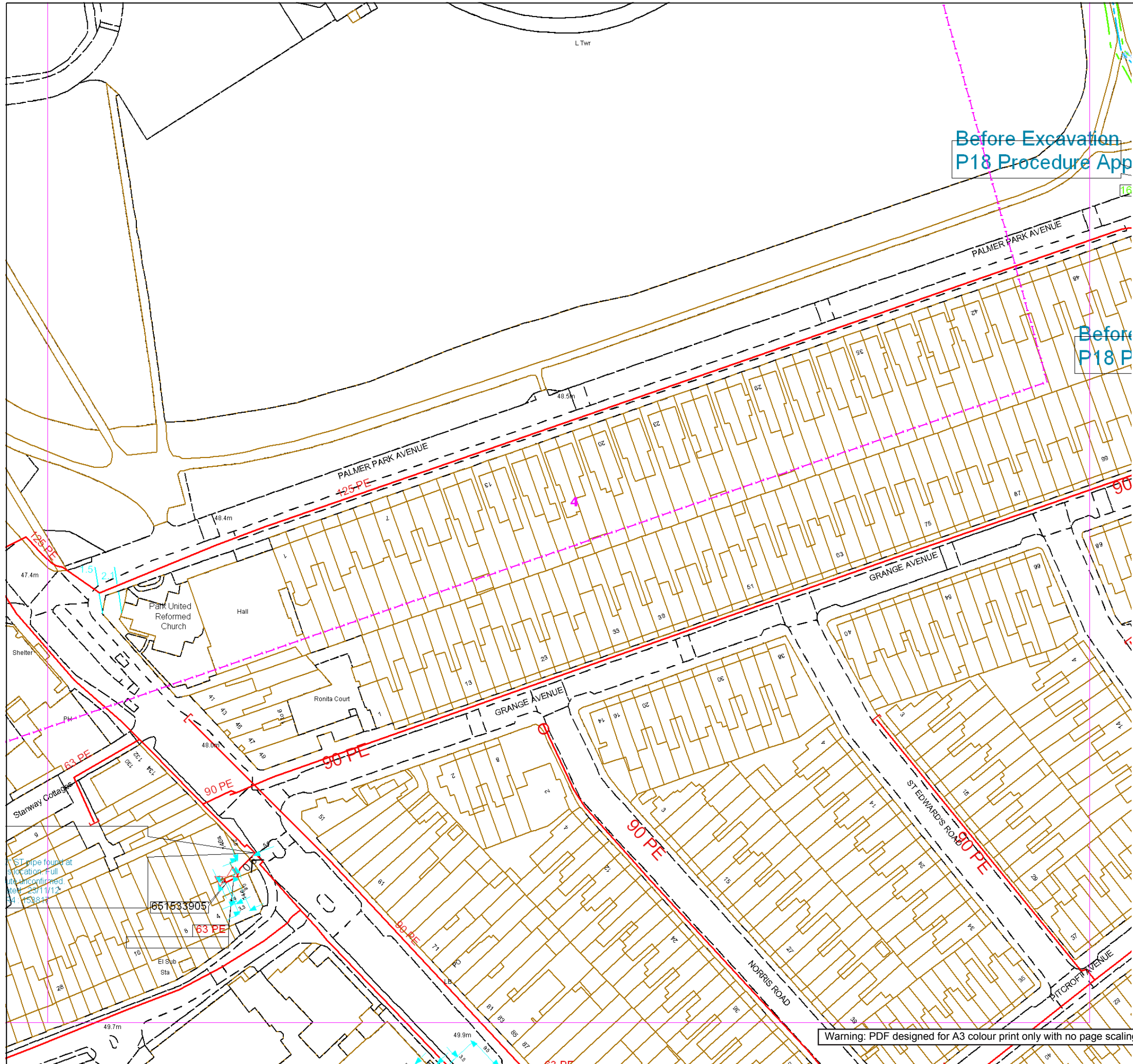
Low Pressure Mains
Medium Pressure Mains
Intermediate Pressure Mains
High Pressure Mains
LAS
GTs
SSSIs
Some Examples Of Plant Items
Valve
Siphon
Depth of Cover
Diameter Change
Material Change

Digsite: Line: Area:



This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.

Warning: PDF designed for A3 colour print only with no page scaling.





Contact Us
Mapping Enquiries:
All areas

General Enquiries:
All areas

Date Requested: 04/03/2019
Job Reference: 14976471
Site Location: 473841 173008
Requested by:
Mr Tony Cochranre
Your Scheme/Reference:
C7402 - GLL Palmer Park Readingeadingeadingeadingeading
Exact Scales:
1:1000 Area or Circle dig site
1:1000 Line dig site

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

LAs

GTs

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Diameter Change

Material Change

Digsite: Line:

Area:



This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.

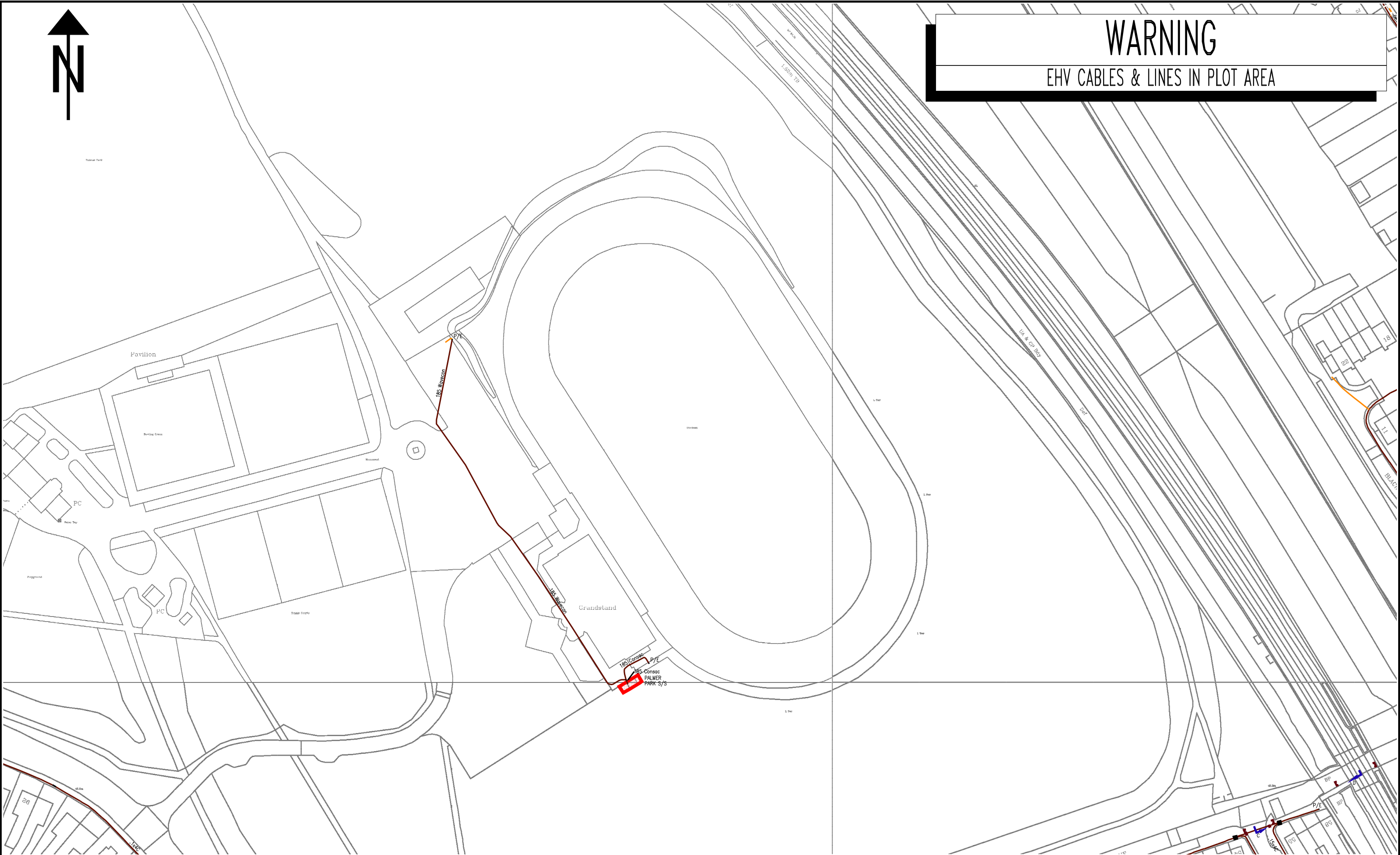
Before Excavation
P18 Procedure App

Before
P18 P



WARNING

EHV CABLES & LINES IN PLOT AREA



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH/UNMADE	0.45m	0.45m	0.60m	0.80m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
AGRICULTURAL	1.00m	1.00m	1.00m	1.10m
l.v./services	– up to 1000V.			
h.v.	– over 1000V. to 11,000V.			
e.h.v.	– 22,000V. to 132,000V.			

WARNING

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.

This copy has been made by or with the authority of Southern Electric Power Distribution plc. pursuant to section 47 of the Copyright, Designs and Patents Act 1988 (‘the Act’). Unless the Act provides a relevant exception to copyright, the copy must not be copied without the prior permission of the copyright owner.

Southern Electric Power Distribution plc.
Registered in England No. 04004290
Registered Office: No. 1 Forbury Place,
43 Forbury Road, Reading, RG1 3JH

RG6 1LF

UNCONTROLLED COPY

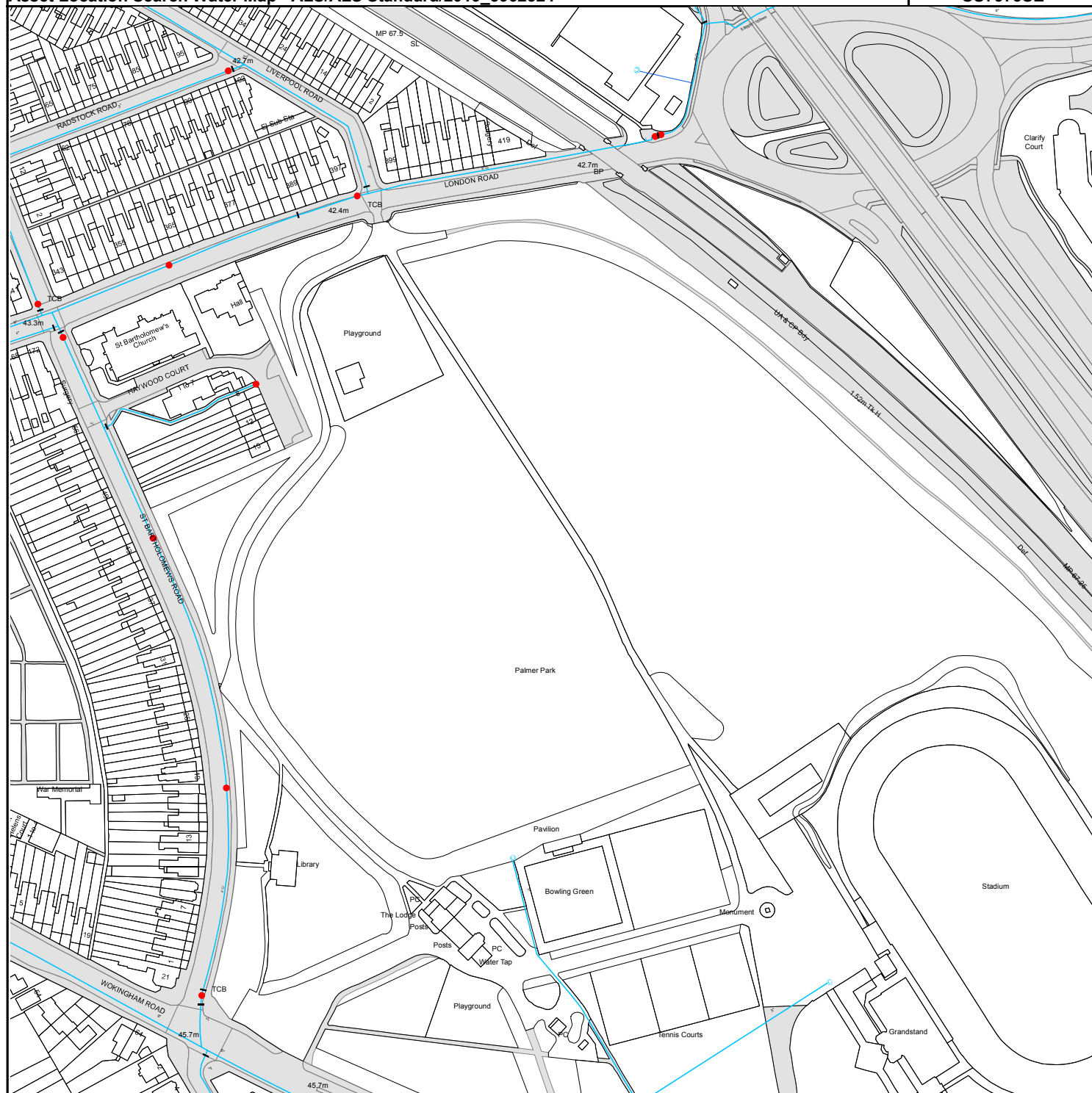
Subject to Revision Master held at



Scottish & Southern
Electricity Networks

If you are unsure & need to seek advice before commencing excavations please contact
READING
01189-126500

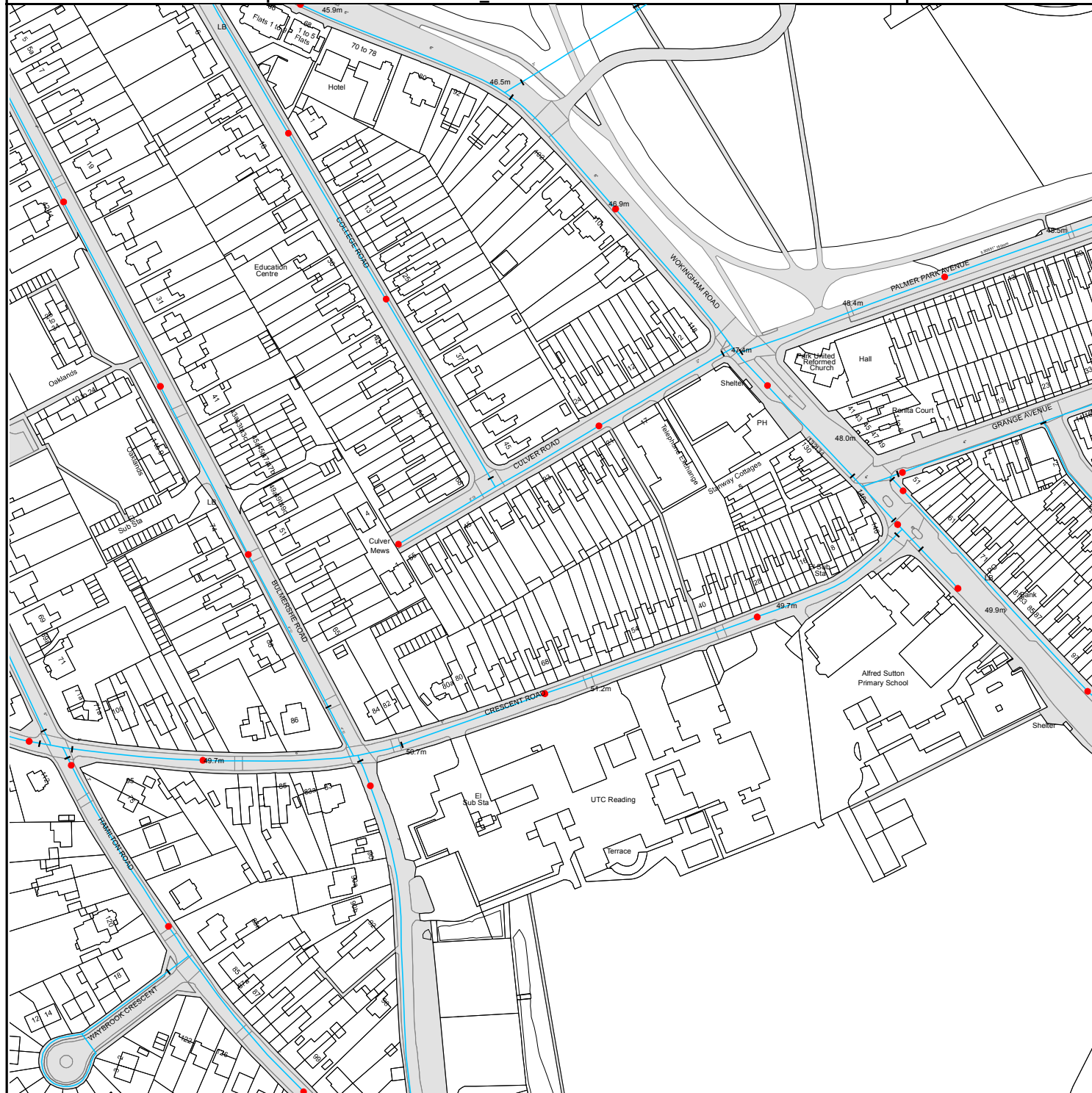
L.V. MAINS RECORD	
Grid Ref:	SU73957309
Scale:	1:1250
Date:	05/03/2019
MSS334712	



The width of the displayed area is 500m and the centre of the map is located at OS coordinates 473750, 173250

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.

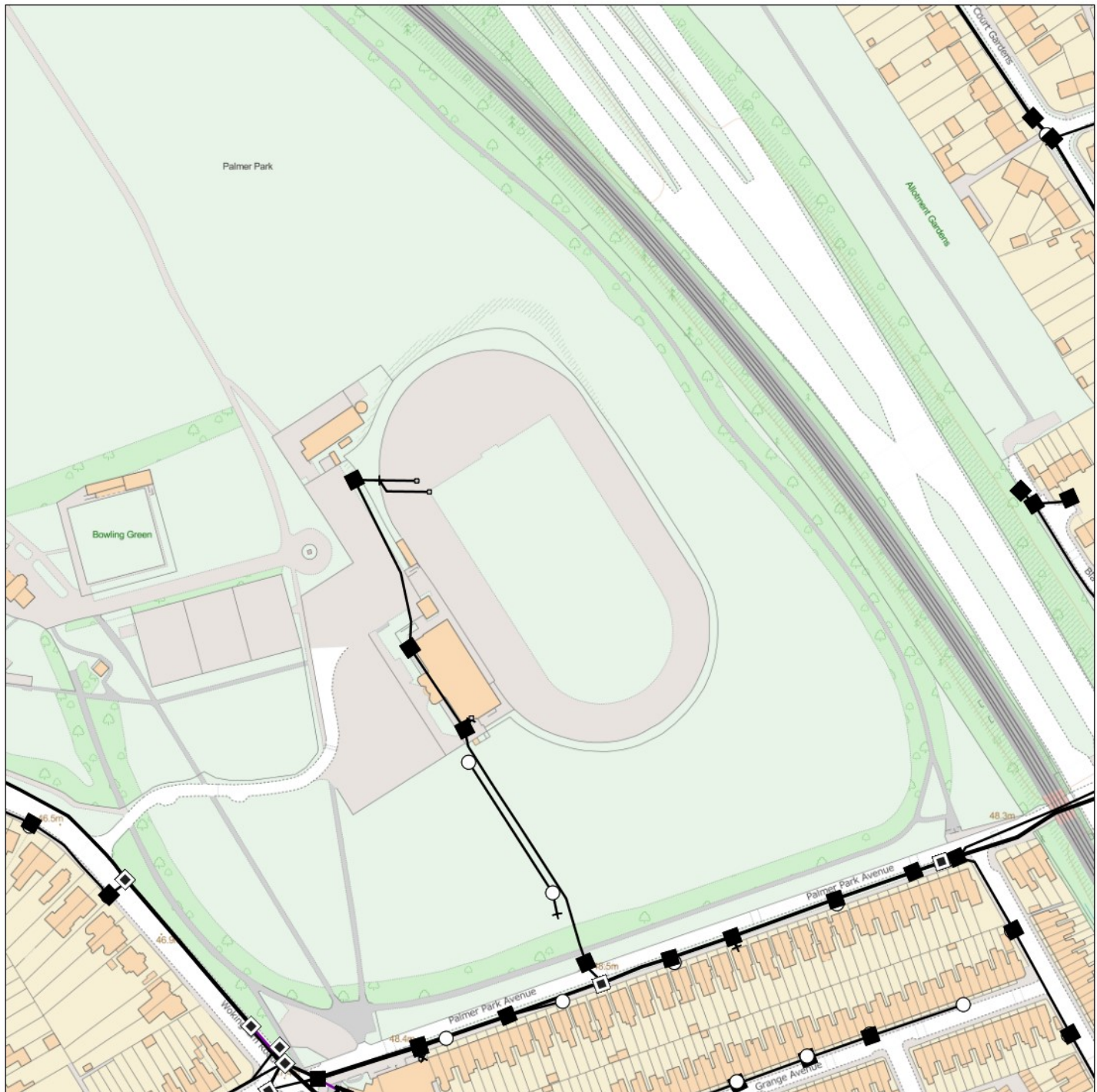


The width of the displayed area is 500m and the centre of the map is located at OS coordinates 473750,172750

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.

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.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

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

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			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 time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : KYZ10035N

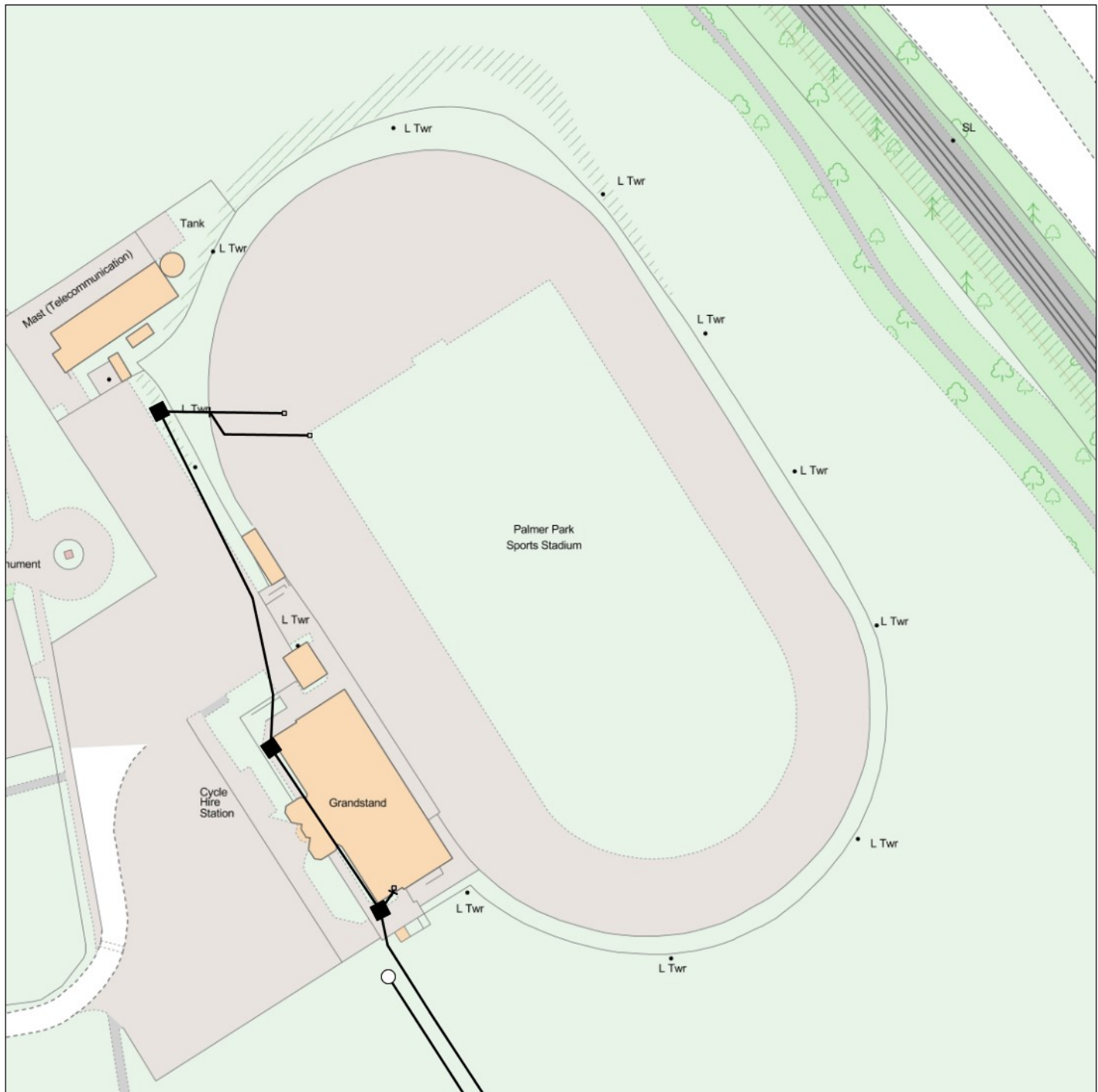
Map Reference : (centre) SU7395873086

Easting/Northing : (centre) 473958,173086

Issued : 04/03/2019 10:03:34

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

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.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

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

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Built	
Pole			Duct Tee		Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			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 time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : ZAZ10034J

Map Reference : (centre) SU7395873086

Easting/Northing : (centre) 473958,173086

Issued : 04/03/2019 10:03:47

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk