Levenshulme Road, Manchester.

Date: March 2022

Nationwide Land & Measured Building Surveyors

Site Location

Grid References

SJ 88692 95452

Grid Reference (6 figure)

SJ886954

X (Easting): **388692**

Y (Northing): **395452**

Latitude : **53.455697**

Longitude: **- 2.1717605**

Address Near:

Levenshulme Road, Manchester.

Postcode (nearest):

M18 7NL

Address Near:

option.beside.discrepancy.

Enclosures

Utility Type	Company	In-house Search	In Vicinity of Development	Not In Vicinity of Development	No Response Received to Date
Water Mains	United Utilities		14/03/2022		
Drainage	United Utilities		14/03/2022		
Gas	Cadent		14/03/2022		
Openreach (BT)	BT	x	14/03/2022		
CATV	Virgin	x	14/03/2022		
Electric	ENW		14/03/2022		
Communication	Colt			14/03/2022	
	BSkyB/Easynet			14/03/2022	
	Instalcom			14/03/2022	
	Tata			14/03/2022	
	Zayo Europe			14/03/2022	
	SSE Neos Networks			14/03/2022	
	Plancast			14/03/2022	
	EU networks			14/03/2022	
	Verizon			14/03/2022	
	Energi			14/03/2022	
	Telent			14/03/2022	
	Gtt			14/03/2022	
	Comm Masts (Above)			14/03/2022	
Environment Agency				14/03/2022	
Council				14/03/2022	
Tunnels & Pipelines	BT Deep Level Tunnels			14/03/2022	
	Thames Water Ring Main			14/03/2022	
	Post Office Tunnels			14/03/2022	
	Cemex (Cement Tunnel)			14/03/2022	
	MOD			14/03/2022	
	Post Office			14/03/2022	
	CHL (Fisher German)			14/03/2022	
Transport	Canal & River Trust			14/03/2022	
	Network Rail			14/03/2022	
	Crossrail			14/03/2022	
	London Underground			14/03/2022	
	Docklands Light Railway			14/03/2022	
	Private Rail Lines			14/03/2022	
	Trams			14/03/2022	
	Traffic Master			14/03/2022	

Also None Affected in This Search

	AWE Pipeline Esso Petroleum Company Limited Perenco UK Limited (Purbeck Southampton Pipeline) BOC Limited Fulcrum Pipelines Limited Petroineos BP Midstream Pipelines Phillips 66 Gateshead Energy Company Premier Transmission Ltd (SNIP) Carrington Gas Pipeline Gigaclear PLC Prysmian Cables & Systems Ltd (c/o Western Link)	CATS Pipeline c/o Wood Group PSN Humbly Grove Energy Redundant Pipelines - LPDA Cemex IGas Energy RWEnpower (Little Barford and South Haven) Centrica Energy Ineos Enterprises Limited SABIC UK Petrochemicals Centrica Storage Ltd DIO (MOD Abandoned Pipelines)

Abbreviations

Apparatus	
Electric:	
DNO	Distribution Network Operator
iDNO	Independent Distribution Network Operator
ICP	Independent Connections Provider
LV	Low Voltage
HV	High Voltage
EHV	Extra High Voltage
kVA	Kilovolt Amperes
MVA	Megavolt Amperes
AC	Alternating Current
S/S	Substation
PMT	Pole Mounted Transformer
Gas:	
GT	Gas Transporter
iGT	Independent Gas Transporter
UIP	Utility Infrastructure Provider
PRS	Pressure Reducing Station (Governor)
LP	Low Pressure
MP	Medium Pressure
IP	Intermediate Pressure
HP	High Pressure
Water	
SLO	Self Lay Organization
Incumbent	Local Water only or Water & Sewerage Company
WRAS	Water Regulation Advisory Scheme
Other	
PE	Polyethylene
DI	Ductile Iron
ST	Steel
CI	Cast Iron
SI	Spun Iron
HPPE	High Performance Polyethylene
MDPE	Medium Density Polyethylene
CATV	Cable Television
GRP	Glass Reinforced Plastic
FTTP	Fibre to the premise
FTTC	Fibre to the cabinet
l/min	Litres per minute
H&S	Health and Safety
HBF	House Builders Federation
TPO	Tree Preservation Order

Enclosure Table Key

Desk Research
A cross in this column indicates that the response has been determined In-house.

In Vicinity
Utility plant is expected to be within, adjacent to or very close to the search area. It's recommended to liaise with the utility in advance of any works taking place.

Not In Vicinity
Utility plant is not expected to be within, adjacent to or very close to the search area. It may be located some distance from the search area.

Disclaimer

Relevant Documents

The following documents must be referred to before work commences in the vicinity of existing services:

Health and Safety Booklet HS (GS) 6 Avoidance of Danger from Overhead Electric Lines.
General Safety Measures to Avoid Injury and Damage to Gas Apparatus.
HSE Guidance Note HS (G) 47 Avoiding Danger from Underground Services.
National Joint Utilities Group (NJUG) Publications Vol. 1.
CDM Regulations 2007 (Regulation 34 – Energy Distribution Installations).
Electricity at Work Regulations 1989.

Basic Risk Assumption for all Services

When dealing with existing services the following assumptions must always be accepted:
All existing buildings have gas, water electric and telecoms supplies to them until proven otherwise.
Any supply to an existing building, no matter how old the building is or how deteriorated the supply may appear, is taken to be 'live' until proven otherwise. All open land, vacant lots and derelict sites are deemed to have services beneath them until proven otherwise.

The only acceptable proof that a service is 'dead' and can be removed is written confirmation from the owner of the service. The quality and accuracy of information provided by utilities about their existing plant is indicative and no warranty is made as to its accuracy. Therefore, any utility record plans and/or marked up drawings provided by each utility must only be used as a guide and the actual location of plant should be verified by CAT Scan or trial holes before construction works commence.

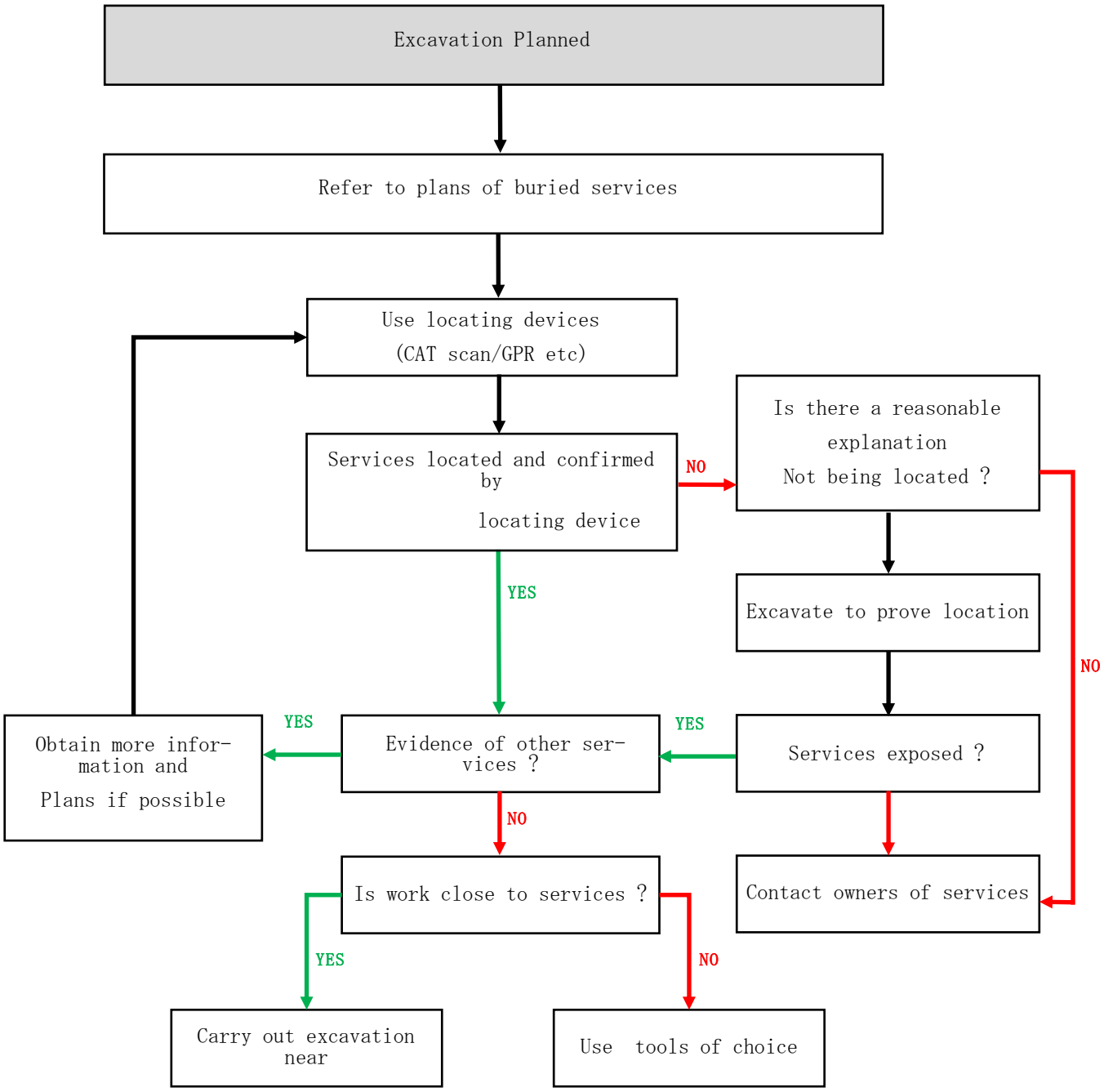
Please note not all service connections are shown on the utility record plans.

Plant Found Within Site Boundaries

Where utility plant is found within the site boundary, it is recommended for the client to check for legal easements or wayleaves.

Diversions of plant within site boundaries can be expensive and time consuming to relocate.
Further investigation of costs and timescales are recommended. Please ask PES for further details.

This flow diagram is intended to help give an understanding of the process from referring to plans on-site through to the start of excavation.



For example, could services be non-metallic pipes? Please refer to HS (G) 47 text for further information.

† In particular; visual evidence. Ensure that the presence of services, which may be unmarked on plans or for which no plans are available, has been considered, for example service connections.

*** If there is visual evidence of services, but owners cannot be traced, despite all reasonable attempts to do so, any excavation could proceed but using hand-dug trial holes and proceeding with great care.*

Guidelines on the Positioning and Colour Coding of Underground Utilities' Apparatus

Recommended Colour Coding of Underground Utilities Apparatus

All depths are from the surface level to the crown of the apparatus.

Utility	Duct	Pipe	Cable	Marker Systems	Recommended Minimum Depths	
					Footway Verge	Carriageway
Electricity HV (High Voltage)	Black or red duct or tile	N/A	Red or black	Yellow with black and red legend or concrete tiles	450mm - 1200mm	750m - 1200mm
Electricity LV (Low Voltage)	Black or red duct or tile	N/A	Black or red	Yellow with black legend		750mm
Gas	Yellow	* See row below	N/A	Black legend on PE pipes every linear metre.	600mm footway 750mm verge	750mm
	*** PE - up to 2 bar - yellow or yellow with brown stripes (removable skin revealing white or black core pipe). - between 2 to 7 bar -orange. Steel pipes may have yellow wrap or black tar coating or no coating. Ductile Iron may have plastic wrapping Asbestos & Pit / Spun Cast Iron – No distinguishable colour					
Water non Potable & Grey Water	N/A	Black with green stripes	N/A	N/A	600mm - 750mm	600mm - 750mm
Water - Firefighting	N/A	Black with red stripes or bands	N/A	N/A	600mm - 750mm	600mm - 750mm
Oil / fuel pipelines	N/A	Black	N/A	Various Surface markers Marker tape or tiles above red concrete	900mm All work within 3 metres of oil fuel pipelines must receive prior approval	900mm All work within 3 metres of oil fuel pipelines must receive prior approval
Sewerage	Black	No distinguishing colour / material (eg: Ductile Iron may be red; PVC may be brown)	N/A	N/A	Variable	Variable
Communications	Grey, white, green, Black, purple	N/A	Black or Light Grey	Various	250mm - 350mm	750mm minimum
Water	Blue or Grey	Blue polymer or blue or uncoated Iron / GRP. Blue polymer with brown stripe (removable skin revealing white or black pipe)	N/A	Blue or blue/ black	750mm	750mm minimum
Water pipes for special purposes (e.g. contaminated ground)	N/A	Blue polymer with brown stripes (non removable skin)	N/A	Blue or blue/ black	750mm	750mm minimum

*These guidelines describe utility industry practice. However, it should not be Assumed that all apparatus will conform the recommendations for positioning And colour coding contained in this report.

Recommended Colour Coding of Other Underground Apparatus
All depths are from the surface level to the crown of the apparatus.

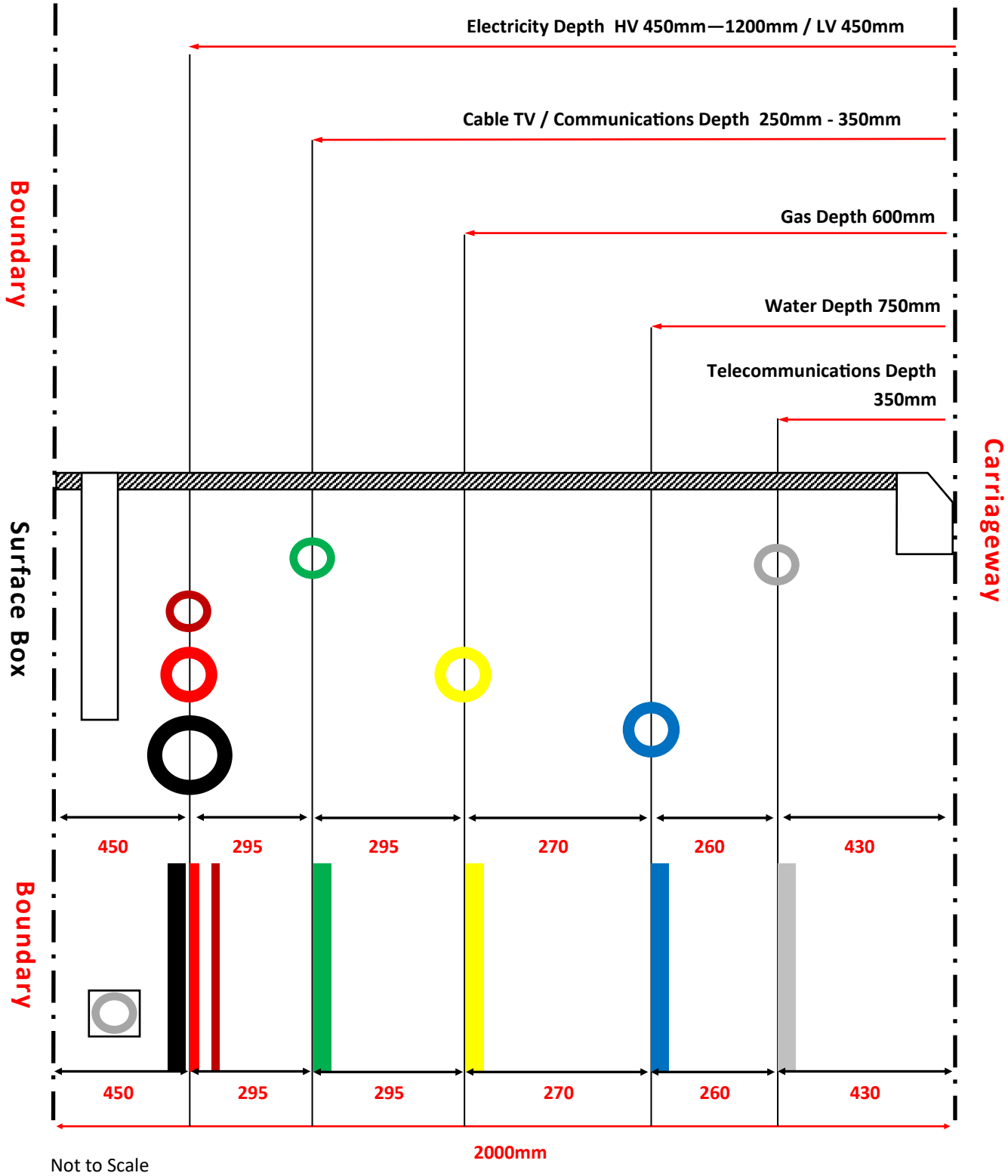
Utility	Duct	Pipe	Cable	Marker Systems	Recommended Minimum Depths	
					Footway Verge	Carriageway
At the time of publication the following were current examples of known highway authority apparatus colour coding but local variations may occur.						
Street Lighting						
England and Wales	Orange	N/A	Black	Yellow with black legend	450mm	600mm
Scotland	Purple	N/A	Purple	Yellow with black legend	450mm	450mm
Northern Ireland	Orange	N/A	Black or orange		450mm	450mm
Other						
Traffic Control	Orange	N/A	Orange	Yellow with black legend		
Street Furniture		N/A	Black	Yellow with black legend	450mm	600mm
Communications		N/A	Light grey or black	Yellow with black legend		
CCTV	Purple	N/A		Yellow with black legend		
Motorways and Trunk Roads England and Wales						
Communications	Purple	N/A	Grey	Yellow with black legend	450mm	
Communications Power	Purple	N/A	Black	Yellow with black legend		
Road Lighting	Orange	N/A	Black	Yellow with black legend		
Scotland						
Communications ○ ●	Black or grey	N/A	Black	Yellow with black legend		
Road Lighting	Purple	N/A	Purple	Yellow with black legend		

*These guidelines describe utility industry practise. However, it should not Be assumed that all apparatus will confirm to the recommendations for Positioning and colour coding contained in this publication.

NJUG Guidelines on the Positioning and Colour Coding of Underground Utilities

Recommended Positioning of Utility Apparatus in a 2 metre Footway (s)

Note - the same positioning should apply in the carriageway service strip (if safe and practical to do so) where a development has footways). available for services and or the boundary of the property in on the carriageway (please refer to minimum depths in carriageways) For further advise please contact the asset owner.



Not to Scale

Other warnings

WARNING
PIPELINE OFFSET BEHIND MARKER

The markers may not always be directly over the pipeline. In which case an additional waring sticker will indicate the direction of off-set.

Studs such as these may be found in footpaths and car parks etc.

Stile warning marker

CAUTION

THIS STRUCTURE IS IN CLOSE PROXIMITY TO A HIGH PRESSURE OIL PIPELINE.
BEFORE COMMENCING ANY EXCAVATION WORK PLEASE CALL

FREEFONE 0800 XXXXXX.

You may find signs such as these on apparatus close to the pipeline.

When the pipeline route has been located it will be marked with location pegs.

Pole warning marker

IMPORTANT

Marker posts only denote the presence of our pipelines. Never presume that the pipeline runs in a straight line between marker posts as there could either be a bend or the posts may have been moved without our knowledge.

DO NOT PRESUME ANYTHING; TELEPHONE OUR AGENTS AND WE WILL SEND SOMEONE TO VERIFY EXACTLY WHERE THE PIPELINE IS SITUATED.

Watch out- there's a pipeline about!

Typical pipeline Markers

LINEWATCH WEBSITE
www.linewatch.co.uk

Revision No **06.1**

Awareness and preparation is the key to safe excavation

Typical pipeline markers

Mainline marker post

Huntsman marker post

BPA marker post

ConocoPhillips marker post

MJL marker post

BP marker post

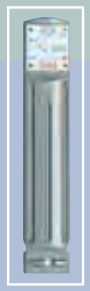
Esso marker posts

Total marker post

GPSS marker post

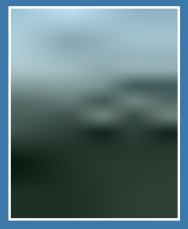
Shell marker posts

Beware of posts with brass studs (such as the post above) which have cables connecting to the pipeline below.



New design marker post

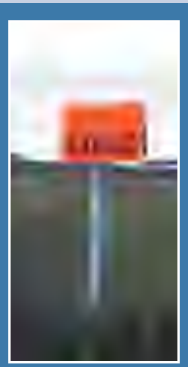
Typical pipeline aerial markers



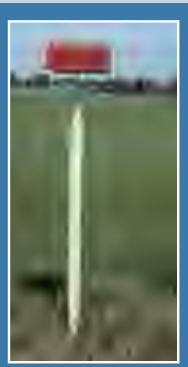
Shell aerial marker

Esso & MLP aerial marker

GPSS aerial marker



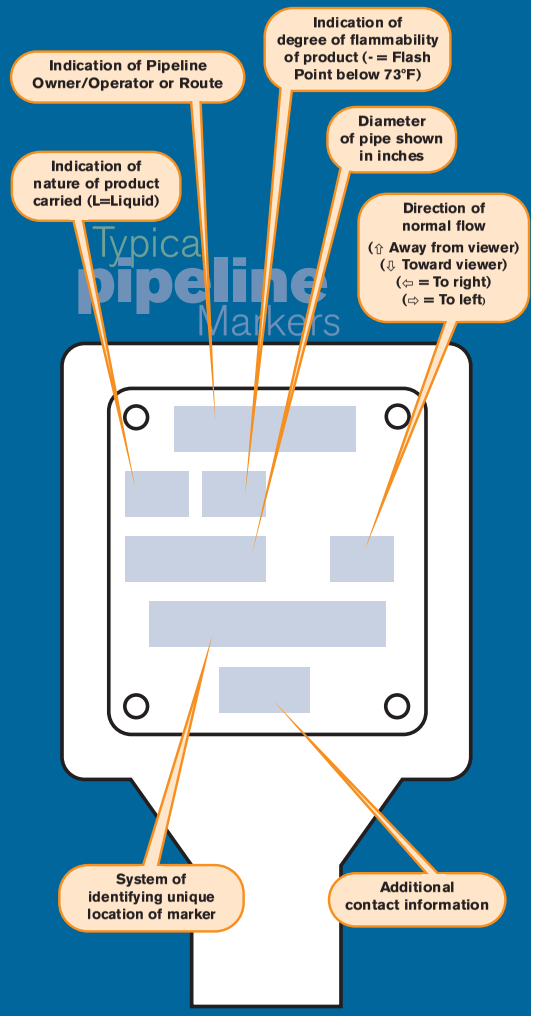
BP aerial marker



Plain orange with white stick

BPA
ConocoPhillips
Total/Huntsman
have similar aerial markers to left

Standard symbols on marker posts



The above information may not appear in the same order as indicated and some items may be omitted

Useful pipeline enquiry sites

www.linewatch.co.uk

for links to individual pipeline websites

www.linesearch.org

Water & Drainage

United Utilities
Water for the North West

How to contact us:

United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

Your Ref: levenshulme
Our Ref: UUPS-ORD-373402
Date: 08/03/2022

Location: 18 LOWFELL WALK, MANCHESTER, M18 7NL

I acknowledge with thanks your request dated 07/03/2022 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

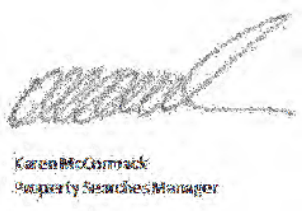
The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. http://www.unitedutilities.com/work-near-asset.aspx .

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please contact us .

Yours Faithfully,



Karen McCormack
Property Searches Manager

United Utilities Water Limited
Registered In England & Wales No. 2366678
Registered Office Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP

Water for the North West

TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

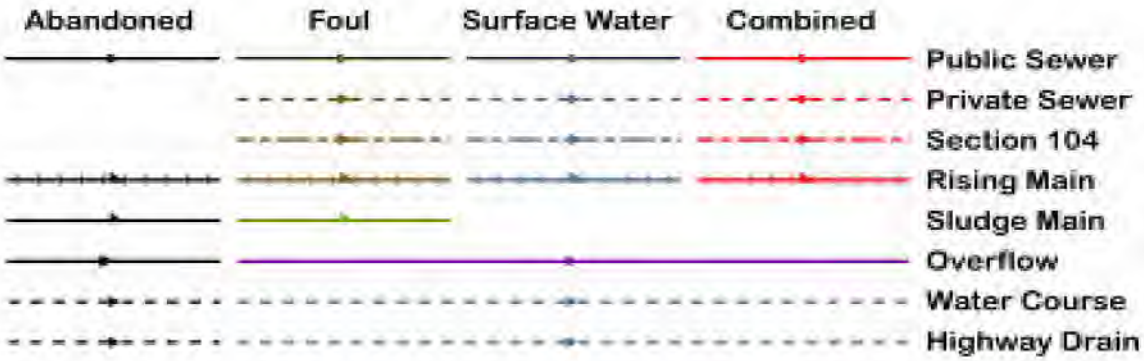
TERMS AND CONDITIONS:

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

United Utilities Water Limited
Registered In England & Wales No. 2366678
Registered Office Haweswater House, Lingley Mere Business Park,
Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP

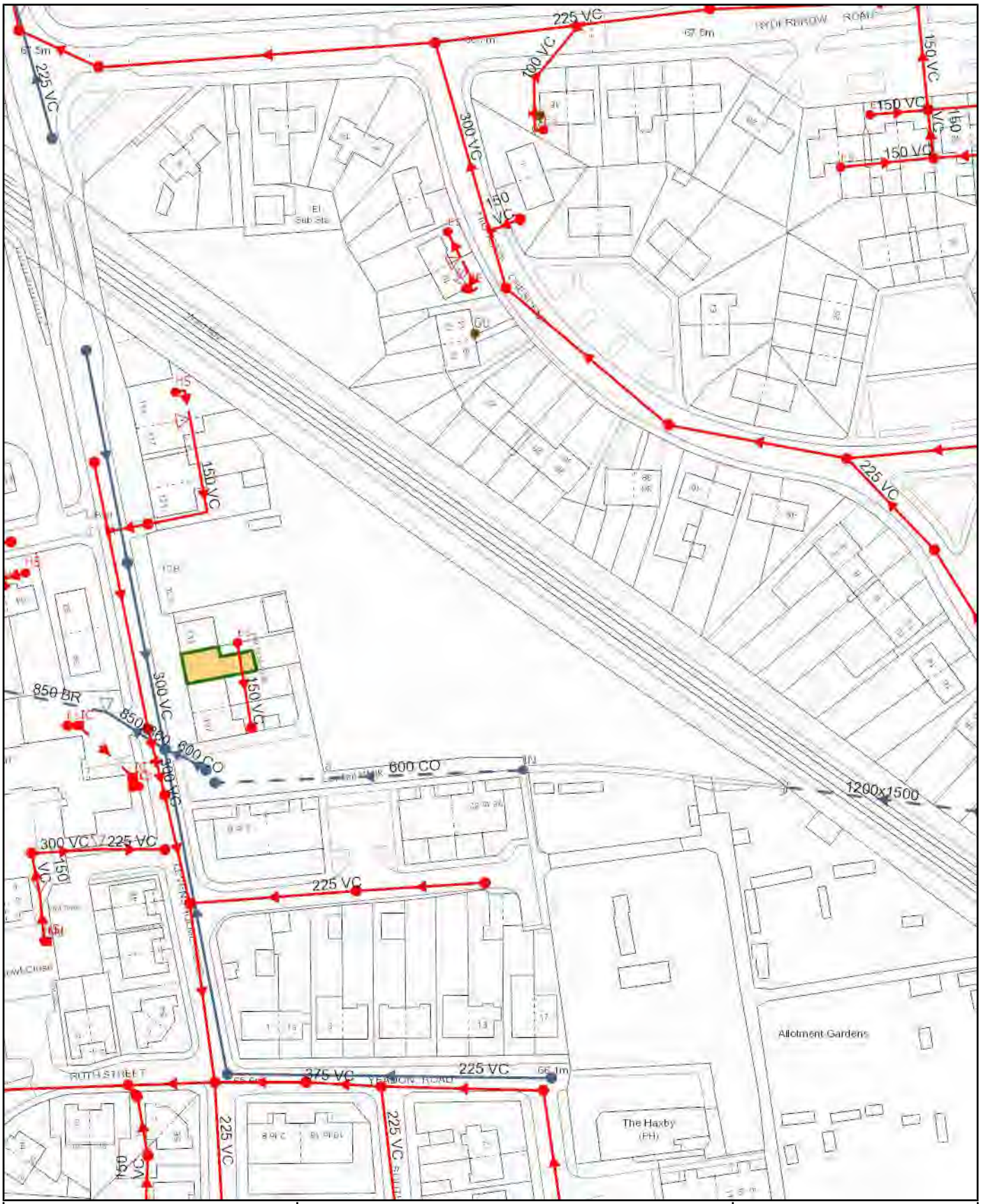
United Utilities
Water for the North West

Wastewater Symbology



All point assets follow the standard colour convention: red – combined, brown - foul, blue – surface water, purple - overflow

- Manhole
- Head of System
- Extent of Survey
- Rodding Eye
- Inlet
- Discharge Point
- Vortex
- Penstock
- Washout Chamber
- Valve
- Air Valve
- Non Return Valve
- Soakaway
- Gully
- Cascade
- Flow Meter
- Hatch Box
- Oil Interceptor
- Summit
- Drop Shaft
- Orifice Plate
- Side Entry Manhole
- Outfall
- Screen Chamber
- Inspection Chamber
- Bifurcation Chamber
- Lamp Hole
- T Junction / Saddle
- Catchpit
- Valve Chamber
- Vent Column
- Vortex Chamber
- Penstock Chamber
- Network Storage Tank
- Sewer Overflow
- Ww Treatment Works
- Ww Pumping Station
- Septic Tank
- Control Kiosk
- Change of Characteristic



Scale:	1:1270	**SEWER RECORDS**	United Utilities Water for the North West
Date:	08/03/2022		
Address or Site Reference:	18 LOWFELL WALK, MANCHESTER, M18 7NL		
Printed by:	Property Searches		

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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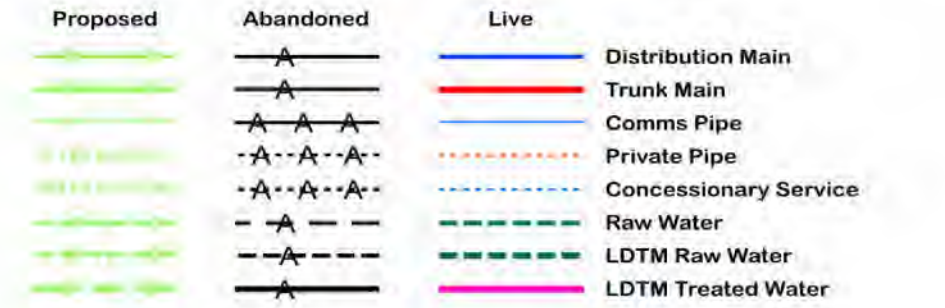
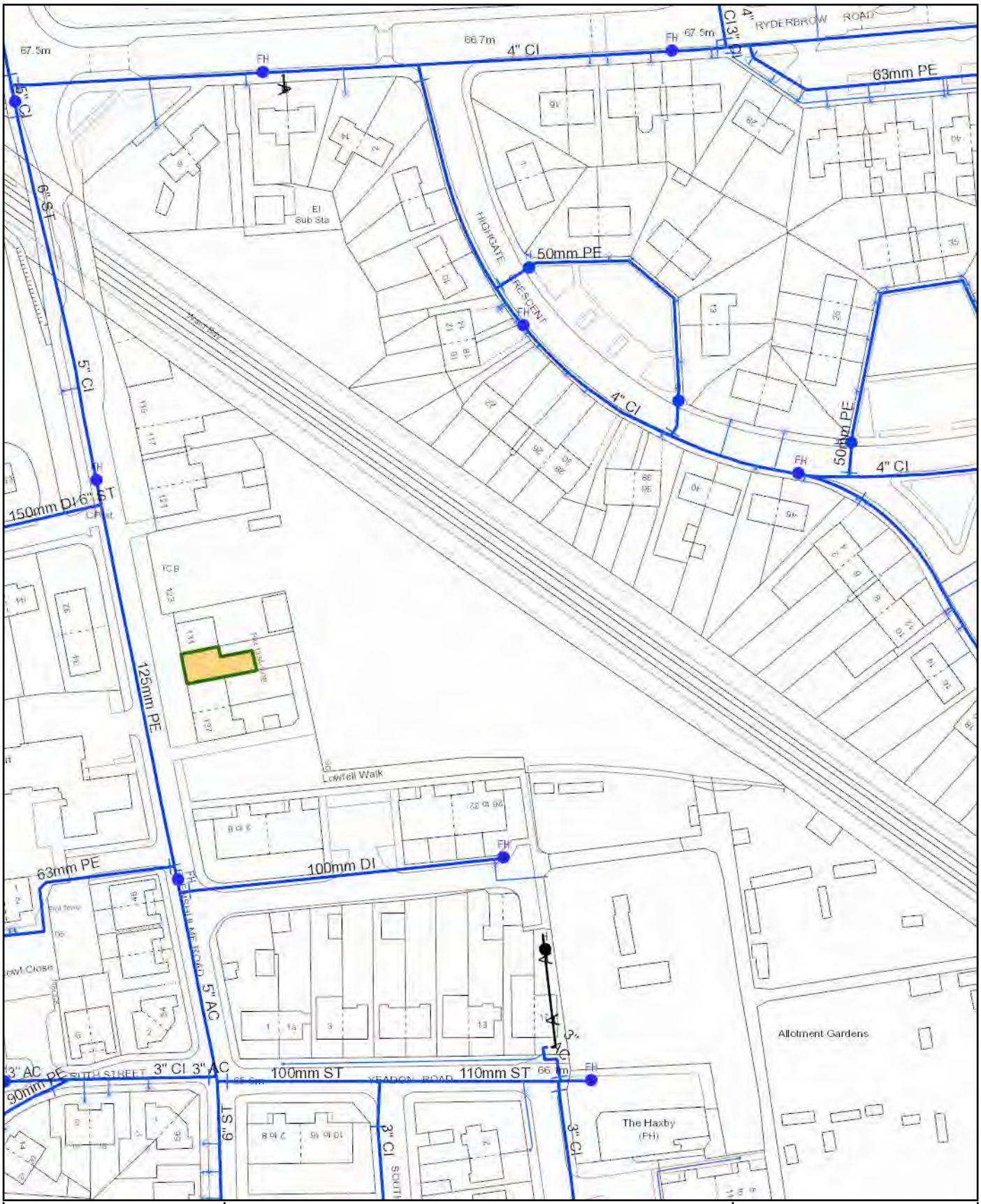
United Utilities

Water for the North West

Clean Water Symbology



Symbology for proposed assets is the same as above, but shown in green
Symbology for abandoned assets is the same as above, but shown in black



Scale:	1:1270	**WATER MAINS RECORDS**	United Utilities Water for the North West
Date:	08/03/2022		

Address or Site Reference: 18 LOWFELL WALK, MANCHESTER, M18 7NL

Printed by: Property Searches

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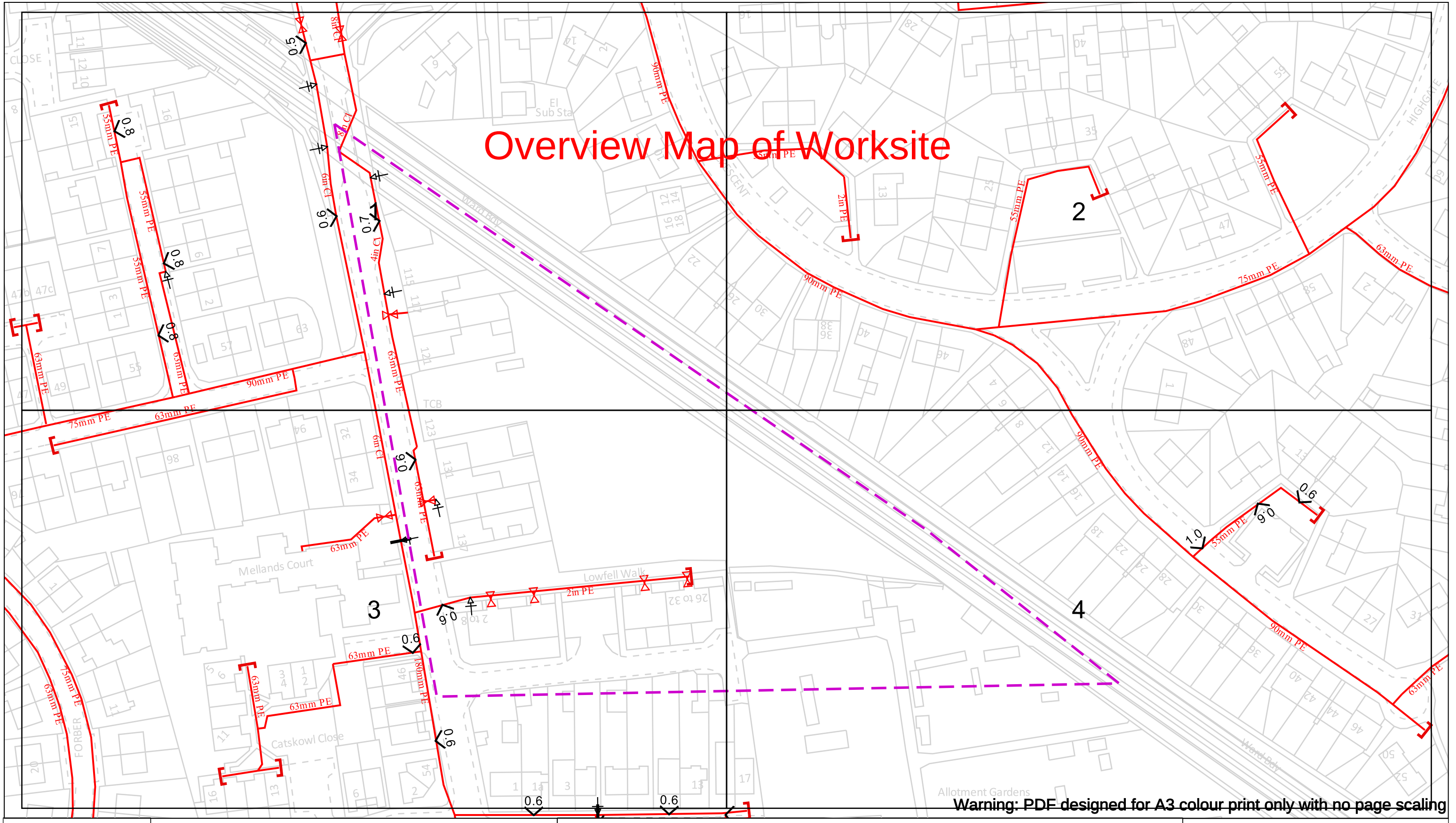
Gas

Overview Map of Worksite



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

View extent: 200m, 115m

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards 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 Cadent Gas Limited or their agents, servants or contractors for any errors or omission. 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 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.

In case of an emergency call 0800 111 999

Dig Sites

Area:

Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

Cadent

Your Gas Network

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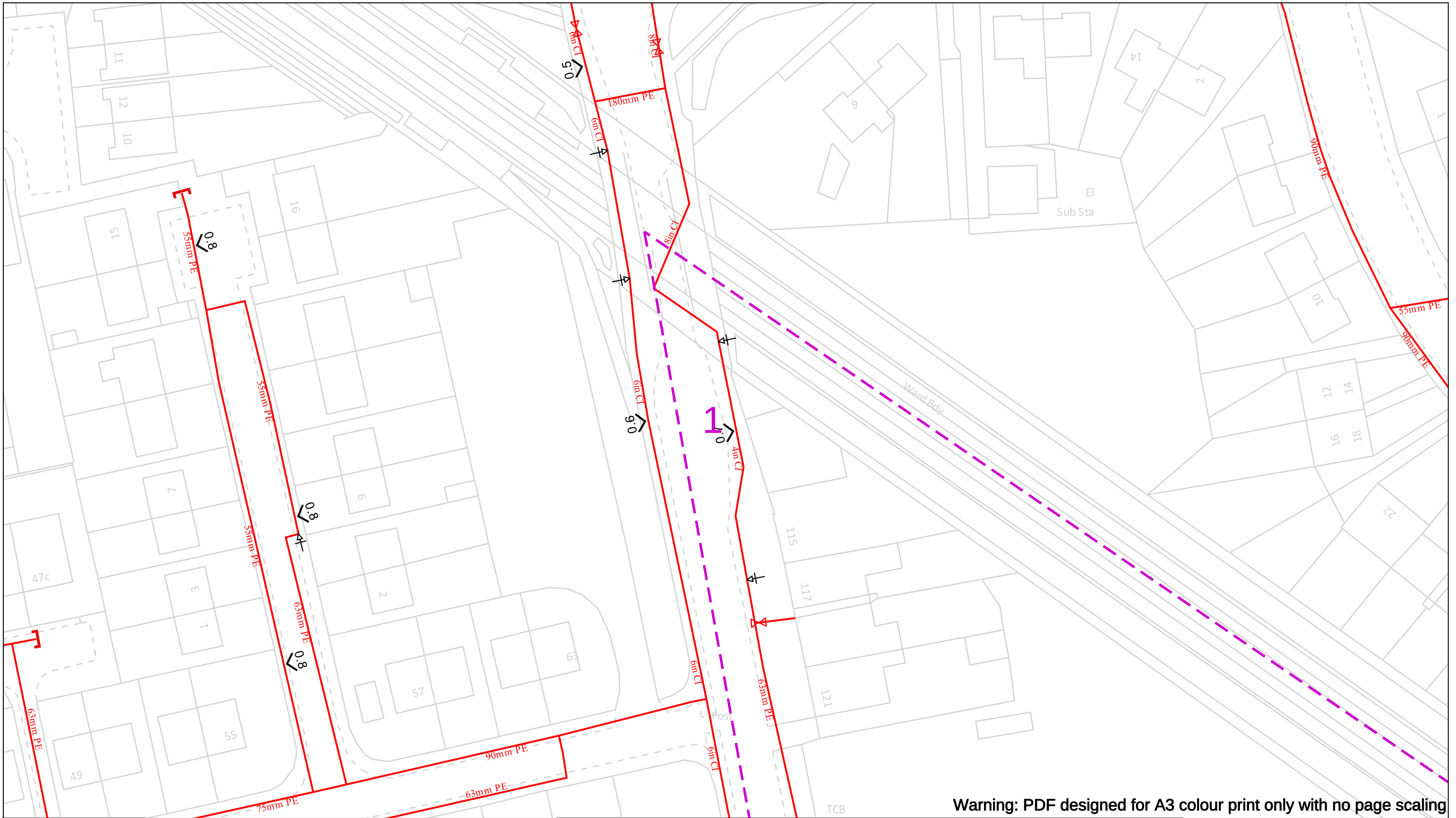

Warning: PDF designed for A3 colour print only with no page scaling

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In case of an emergency call 0800 111 999

50m

Dig Sites

Area:

Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon

Diameter Change
Material Change
Out of Standard Service

Cadent
Your Gas Network

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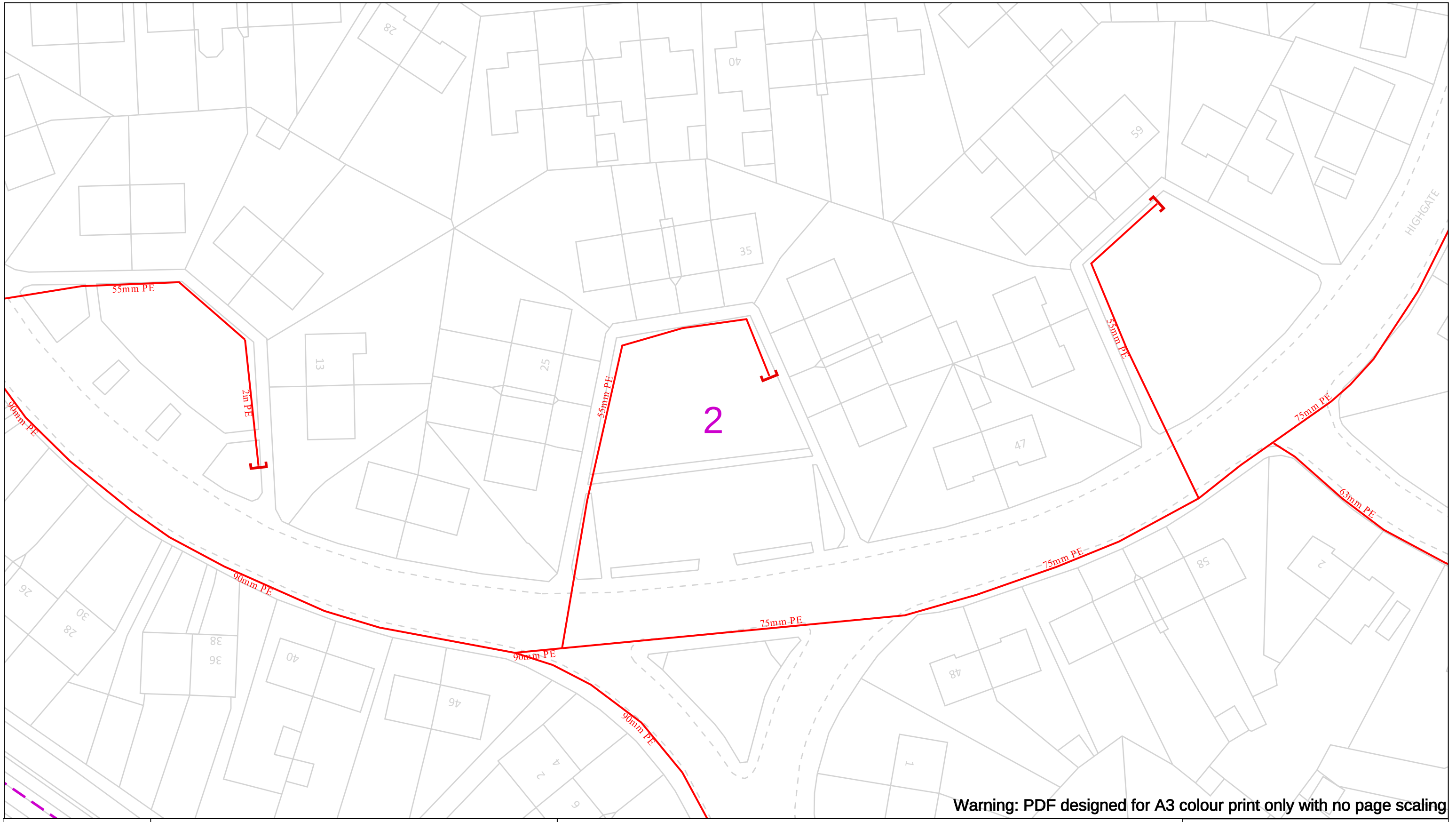

Warning: PDF designed for A3 colour print only with no page scaling

View extent: 200m, 115m

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards 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 Cadent Gas Limited or their agents, servants or contractors for any errors or omission. 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 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.

In case of an emergency call 0800 111 999

50m

Dig Sites

Area: Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon
Diameter Change
Material Change
Out of Standard Service

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Your Gas Network

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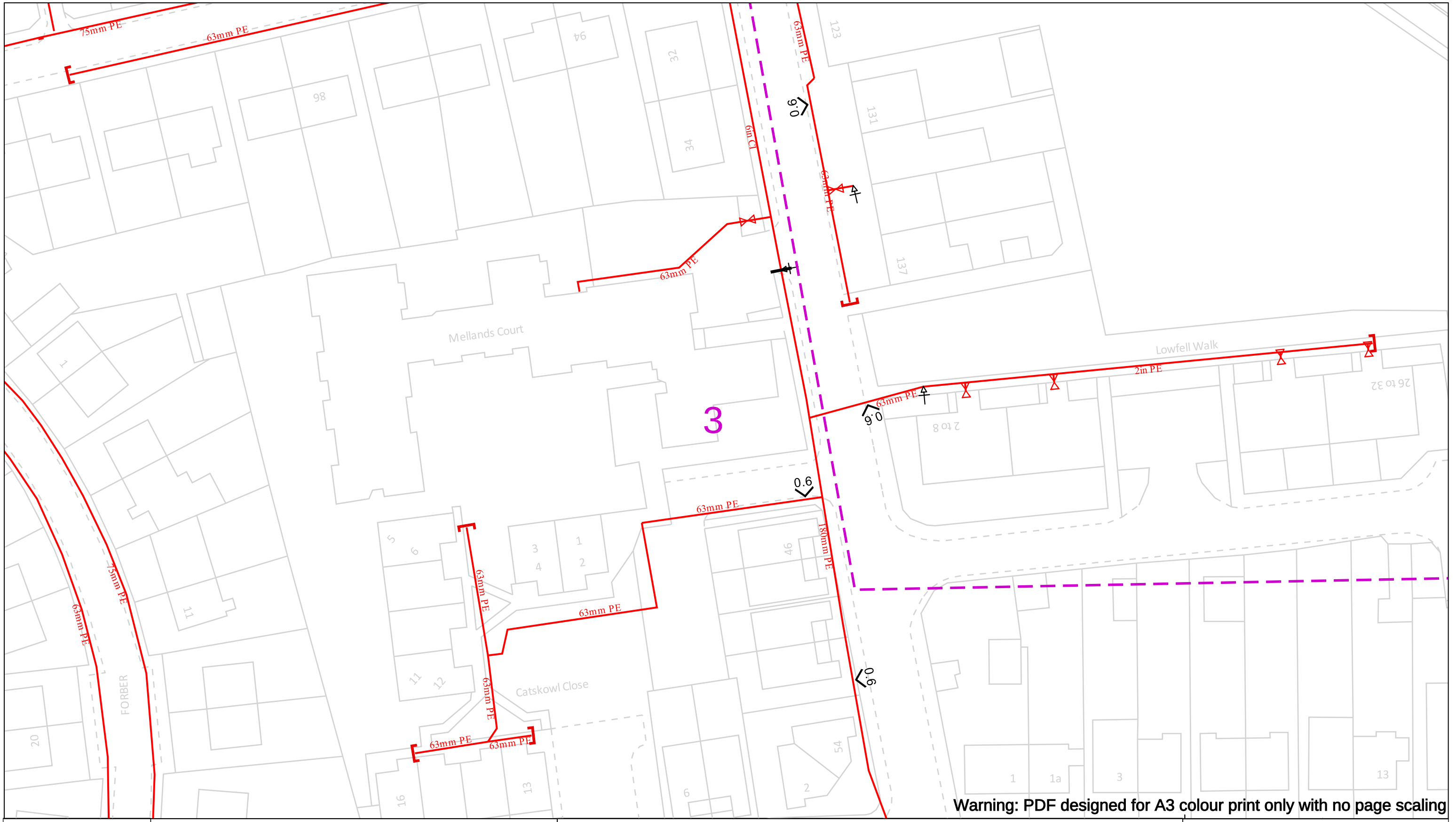

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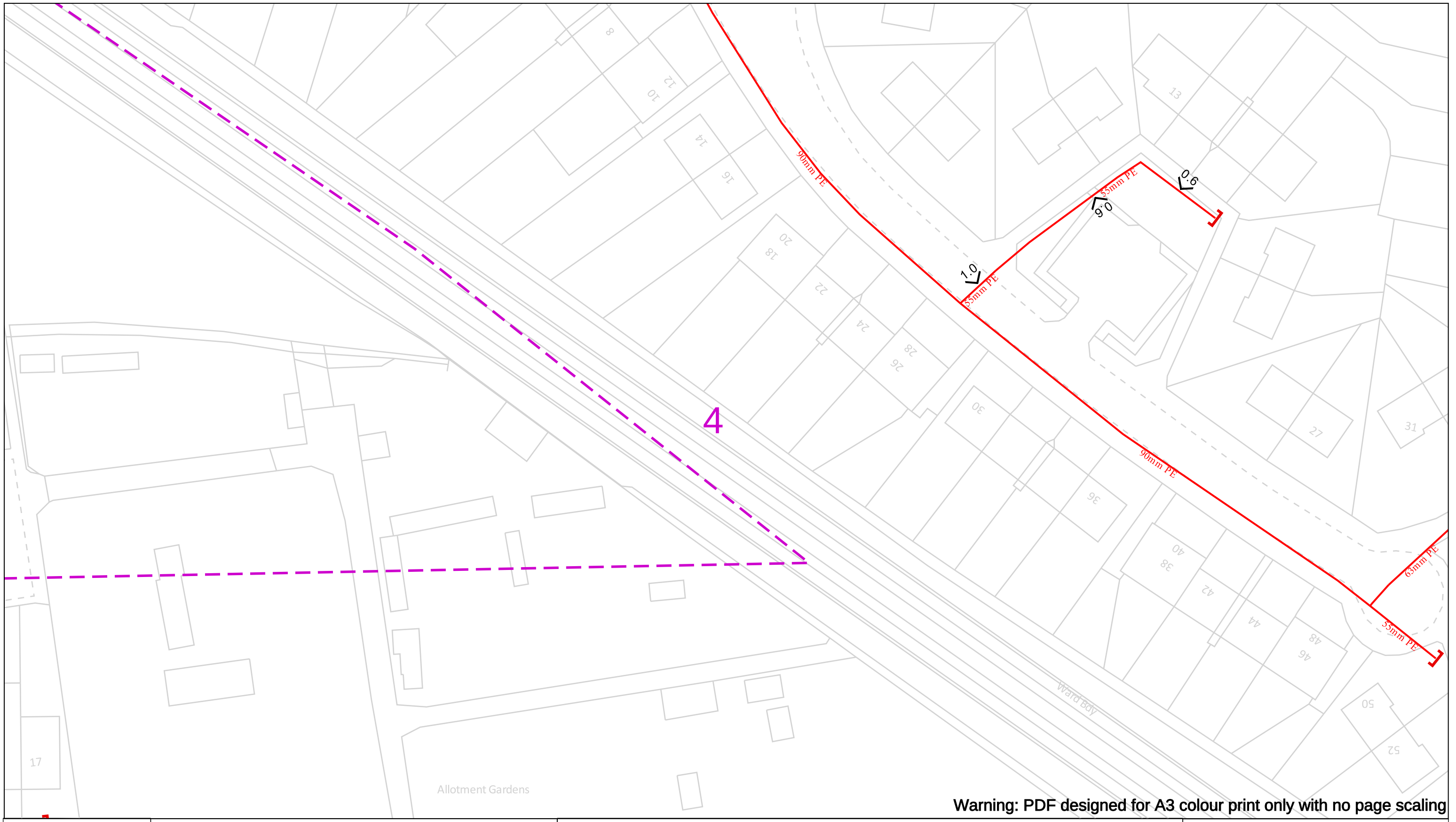

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Your Gas Network

Specification for safe working in the vicinity of Cadent assets - requirements for third parties

SSW22_v1

Cadent contact details

Disclaimer

This document is provided for use by third parties for safe working in the vicinity of Cadent assets. Where this document is used by any other party it is the responsibility of that party to ensure that this document is correctly applied.

Mandatory and non-mandatory requirements

In this document:

shall: indicates a mandatory requirement.

should: indicates best practice and is the preferred option.

If an alternative method is used then a suitable and sufficient risk assessment shall be completed to show that the alternative method delivers the same, or better, level of protection.

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Smell gas? Call the free, 24 hour National Gas Emergency Service:

0800 111 999*

*All calls are recorded and may be monitored

4 Location of gas assets

Cadent asset records shall be consulted to establish the indicative location of the gas assets in relation to the promoters work area.

Prior to site work commencing the gas assets should be located to verify the indicative location.

This should be carried out through non-intrusive methods utilising pipe locators. Once located the gas assets should be marked out at regular intervals using asset location markers with triangular flags (see Appendix A) or other suitable methods.

The requirements for trial holes to locate the asset or determine levels at crossing points shall be determined on site by the Cadent responsible person.

For assets exceeding 2 bar, the excavation of all trial holes shall be monitored by Cadent. For assets not exceeding 2 bar, this monitoring will be at the discretion of the Cadent responsible person. Any changes shall be agreed by Cadent.

Safe digging practices, in accordance with HSE publication HS(G)47 should be followed. Direct and consequential damage to gas plant can be dangerous both to employees and to the general public

5 Temporary and permanent protective measures

No temporary or permanent protective measures, including the installation of concrete slab protection, shall be installed over or near to the Cadent asset without the prior permission of Cadent. Cadent will need to approve the material, dimensions and method of installation of the proposed protective measure.

The method of installation shall be confirmed through the submission of a formal written method statement from the contractor to Cadent. Where permanent slab protection is to be applied over the asset, Cadent will normally carry out a coating survey of metallic assets to check that there is no existing damage to the coating prior to the slab protection being put in place.

Cadent shall therefore be given at least 14 days notice prior to the laying of any slab protection to arrange for this survey to be carried out.

Generally, due to the need for future access to below 2 bar gas assets, permanent slabs are not permitted but, can be approved at Cadent's discretion.

The safety precautions detailed in section 3 and either section 6 or 7 of this document should also be observed during the installation of the asset protection.

6 Working in the vicinity of a gas asset exceeding 2 bar

6.1 Excavation

6.1.1 In proximity to an asset in an easement

Following location and marking of the asset in agreement with the Cadent responsible person, powered mechanical excavation may be used no closer than 3 meters **(see Figure 1)**. The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

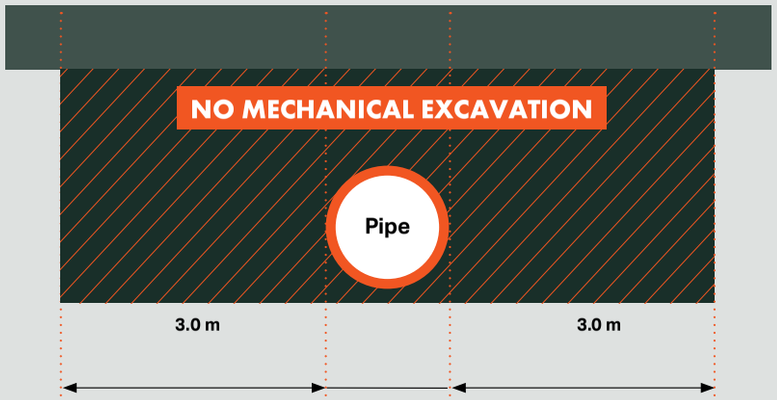
Any fitting, attachment or connecting pipework on the asset shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Consideration may be given to a relaxation of these limits or lower risk excavation methods by agreement with the Cadent responsible person on site.

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.) and following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 0.25 metres, using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or close to above ground gas installations.

Figure 1. Excavation restrictions



After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing, unless otherwise agreed by Cadent.

No new service shall be laid parallel to the asset within the easement. In special circumstances, and only with formal written agreement from Cadent, this may be relaxed for short excursions where the service shall be laid no closer than 0.6 metres.

Where work is being carried out parallel to the asset, within or just alongside the easement, suitable barriers shall be erected for protection between the works and the asset to prevent encroachment.

6.1.2 In proximity to an asset in the highway

Following location and marking of the asset in agreement with the Cadent responsible person, powered mechanical excavation may be used no closer than 3 meters **(see Figure 1)**.

The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 0.3 metres, unless any attachments or projections are present on the asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers is not permitted within 3 metres of the asset. The Cadent responsible person may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 0.3 metres deep, it shall only be removed by hand-held power assisted tools under the observation of Cadent.

In special circumstances, consideration may be given to a relaxation of these rules by agreement with the Cadent responsible person and only whilst they remain on site.

6 Working in the vicinity of a gas asset exceeding 2 bar

6.1.3 Crossing over an asset (Open cut)

Where a new service is to cross over the asset, a clearance distance of 0.6 metres between the crown of the asset and underside of the service should be maintained. If this cannot be achieved, the service shall cross below the asset, **(see section 6.1.4).**

In special circumstances, this distance may be reduced at the discretion of the Cadent responsible person on site.

6.1.4 Crossing below an asset (Open cut)

Where a service is to cross below the asset, a clearance distance of 0.6 metres between the crown of the service and underside of the asset shall be maintained. Where lengths of pipe greater than one metre are to be exposed, the Cadent responsible person shall be consulted.
The exposed asset/s should be suitably supported and protected by matting and timber cladding.
Any supports shall be removed prior to backfilling.

In special circumstances, this clearance distance may be reduced at the discretion of the Cadent responsible person on site.

6 Working in the vicinity of a gas asset exceeding 2 bar

6.1.5 Cathodic protection

Cathodic protection (CP) is applied to Cadent's buried steel pipe and is a method of protecting assets from corrosion by maintaining an electrical potential between the pipe and anodes placed at strategic points along the asset.

Where a new service is to be laid and similarly protected, the party installing the CP system will undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

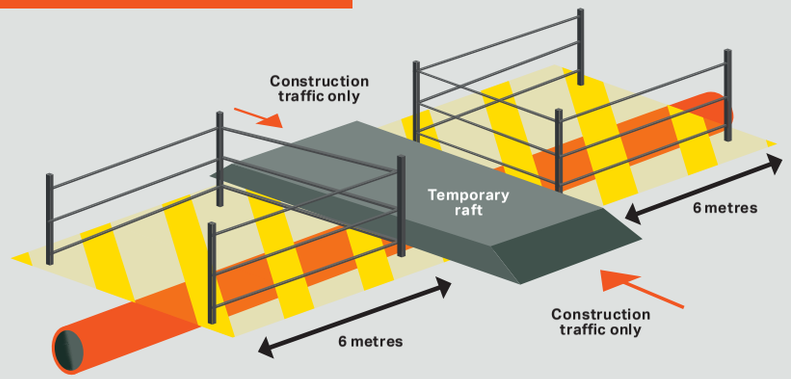
Should any cathodic protection posts or associated apparatus need to be moved to facilitate third party works, at least 14 days notice shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

6.1.6 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel assets, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment and method statement shall be submitted to Cadent for approval, prior to the works.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent's asset. The costs for any stray current mitigation systems required will be borne by the third party promoter.

Figure 2. Construction traffic requirements



6.2 Construction traffic

Where existing roads cannot be used, construction traffic should ONLY cross the asset at agreed locations. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points. The fence should cover the width of the easement and extend a further 6 metres along the length of the easement on both sides. **(See figure 2)**

The asset shall be protected, at the crossing points by a suitable method agreed with the Cadent responsible person prior to installation. The third party shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the raft required.

For larger scale projects, or permanent solutions, a protection slab may be required.

6.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of the asset. The promoter of works is required to consult Cadent when intending to undertake one of the listed activities and/or further advice is required on whether the work has the potential to affect the asset. The table to the right shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought **(see sections 6.3.1 to 6.3.13 for further details)**

Activity	**Distance within which Cadent advice shall be sought**
Piling	**15 m**
Surface mineral extraction	**100m**
Landfilling	**100 m**
Demolition	**150 m or 400m for structure mass >10000 tonnes**
Blasting	**500 m if the MIC is greater than 200 kg** **250 m if the MIC is greater than 10 kg but less than 200 kg** **100 m if the MIC is 10 kg or less.**
Deep mining	**1000 m**
Wind turbine	**Not permitted within 1.5 times the turbine mast height from the nearest edge of a pipeline (please see www.ukopa.co.uk)**

6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.6 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100 metres of an asset. Consideration should also be given to extraction around other plant and equipment associated with assets (e.g cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined by Cadent. The easement strip should be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope needs to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- bulging,
- the development of tension cracks on the slope or easement,
- any changes in drainage around the slope.

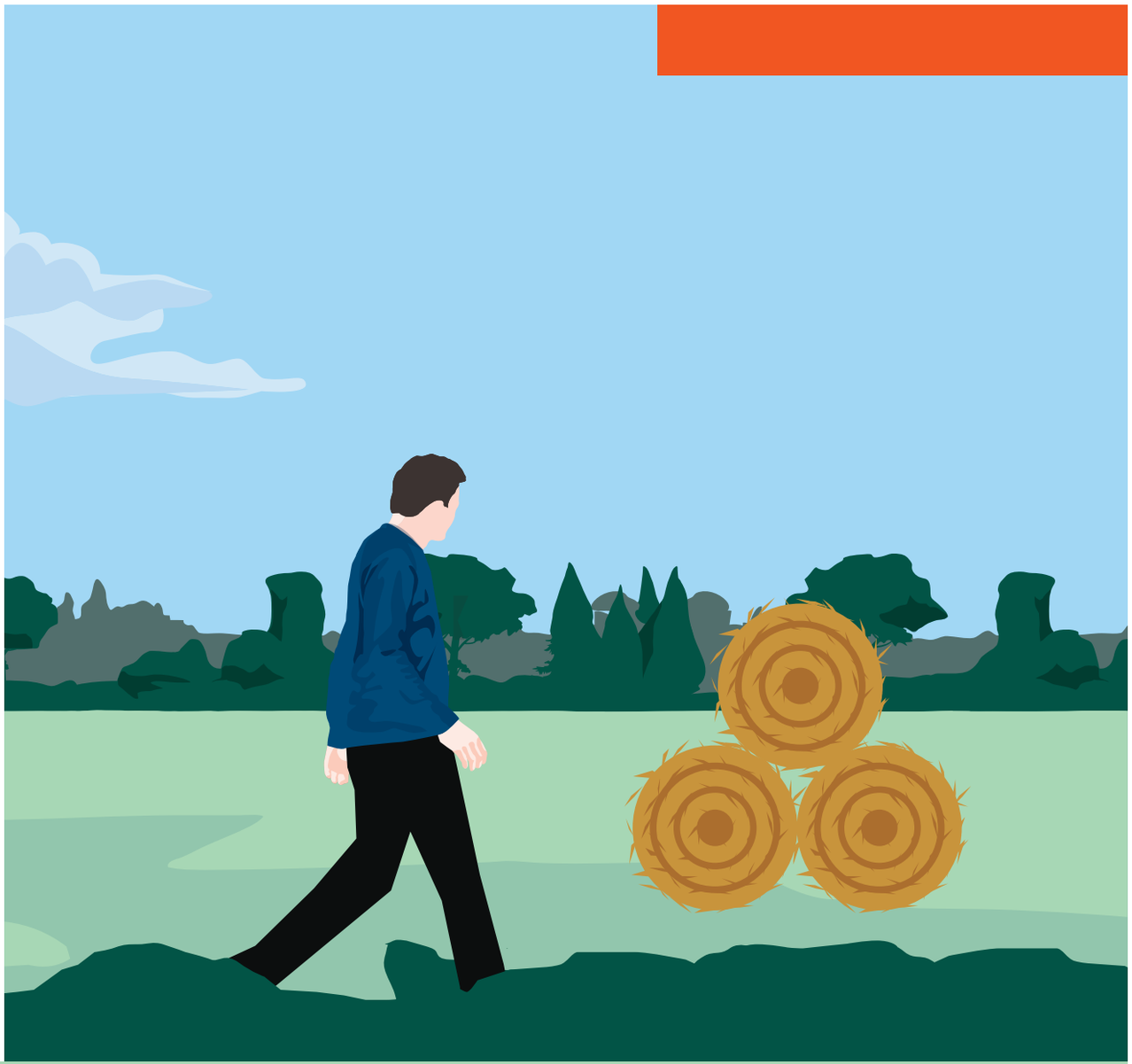
The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100 metres of the asset but do not extend up to the asset easement boundary, Cadent shall assess whether this could promote instability in the vicinity of the asset. This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of **section 6.3.5 apply.**

6.3.7 Deep Mining

Assets routed within 1 km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.8 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100 metres of an asset.
The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

6.3.9 Pressure testing

Hydrostatic testing of a third party asset should not be permitted within 8 metres either side of a Cadent asset, to provide protection against the effects of a burst. Where this cannot be achieved, typically where the third party asset needs to cross a Cadent asset, one of the following precautions would need to be adopted:

a) limiting of the design factor of the third party pipeline to 0.3 at the asset's nominated maximum operating pressure (MOP), and the use of pre-tested pipe, or

b) the use of sleeving, or

c) Cadent conduct risk analysis of pipe failure

In either case, the third party shall submit their site specific risk assessment and safe system of works for consideration by Cadent.

6.3.10 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of an asset that will result in peak particle velocities in excess of 50 mm/ sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

6.3.11 Hot work

Where the Cadent's metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions has been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, should not take place within 0.5 m of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent responsible person to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent responsible person will be present to monitor all welding, burning or other 'hot work' that takes place.

6.3.12 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

6.3.13 Solar farms

Solar farms can be built adjacent to assets but never within the easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.

6.4 Backfilling

No backfilling should be undertaken without Cadent's agreement to proceed. The Cadent responsible person will stipulate the necessary consolidation requirements. Some equipment may not be suitable for use over or around the asset due to the adverse effects of excessive compaction and vibration levels. The Cadent responsible person will be able to advise on suitable equipment. Third parties undertaking work shall provide Cadent with 48 hours notice, or shorter only if agreed with Cadent, of the intent to backfill over, under or alongside the asset.

This requirement should also apply to any backfilling operations that:

- are within 3 metres of the asset, or
- could influence the ground stability.

Any damage to the asset or coating shall be reported to Cadent in order that damage can be assessed and repairs can be carried out.

Minor damage to pipe coating and test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent responsible person, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.

7 Working in the vicinity of a gas asset not exceeding 2 bar

7.1 Excavation

7.1.1 Working in vicinity of iron pipework

Where excavation work this is deeper than 1.5 metres is within 8 metres of grey iron mains an integrity assessment will be required by the Cadent responsible person.

Care should be taken to ensure that any cast iron asset is suitably protected and supported during the works. This is due to the susceptibility of the pipe material to fracture and joint leakage.

Precautionary measures should be agreed with the Cadent responsible person before exposing an iron fitting, for example, bend, tee or cap, etc. This is to ensure that fittings that are not self-anchored are adequately protected against failure during excavation.

7.1.2 In proximity to an asset in an easement

Excavation with a powered mechanical excavator should not be carried out until the asset has been located using vacuum or hand excavation. All mechanical excavation should be undertaken whilst utilising a banksman and shall not be permitted within 0.5 metres of the asset.

The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Consideration may be given to a relaxation of these limits or lower risk excavation methods by agreement with the Cadent responsible person on site.

Where sufficient depth of cover exists and the absence of attachment and projections has been confirmed (e.g. valve spindles, pressure points etc.) and following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 0.25 metres, using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or close to above ground gas installations.

After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing, unless otherwise agreed with by Cadent.

No new service shall be laid parallel to the asset within the easement. In special circumstances, and only with formal written agreement from Cadent, this may be relaxed for short excursions where the service shall be laid no closer than 0.6 metres.

Where work is being carried out parallel to the asset, within or just alongside the easement, suitable barriers shall be erected for protection between the works and the asset to prevent encroachment.

7.1.3 In proximity to an asset in the highway

Excavation with a powered mechanical excavator should not be carried out until the asset has been located using vacuum or hand excavation. All mechanical excavation should be undertaken while utilising a banksman and shall not be permitted within 0.5 metres of the asset.

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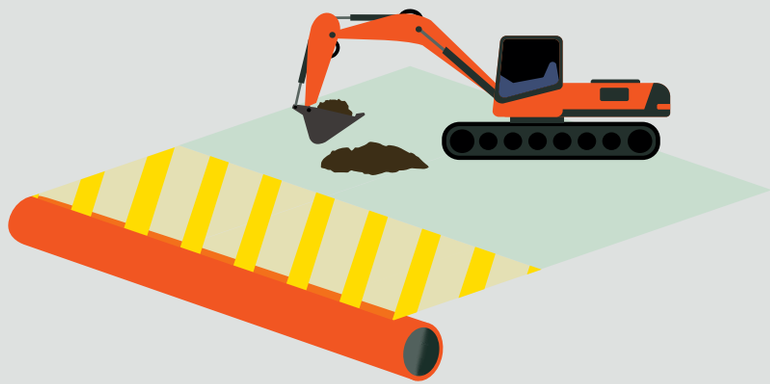
Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 0.3 metres, unless any attachments or projections are present on the asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers to do this is not permitted within 3 metres of the asset. The Cadent responsible person may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 0.3 metres deep, it shall only be removed by hand-held power assisted tools under the observation of Cadent.

In special circumstances, consideration may be given to a relaxation of these rules by agreement with the Cadent responsible person on site and only whilst they remain on site.



7 Working in the vicinity of a gas asset not exceeding 2 bar

7.1.4 Crossing over an asset (Open cut)

Where a new service is to cross over the asset, a minimum clearance distance of 1.5 times the diameter or 0.3 metres, whichever is greater should be maintained. If this cannot be achieved, the service shall cross below the asset, see **Section 7.1.4.**

In special circumstances, this distance may be reduced at the discretion of the Cadent responsible person on site.

7.1.5 Crossing below an asset (Open cut)

Where a service is to cross below the asset, a minimum clearance distance of 1.5 times the diameter or 0.3m, whichever is greater, between the crown of the new service and underside of the asset shall be maintained. The exposed asset/s should be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.

7.1.6 Cathodic protection

Cathodic protection (CP) is applied to some buried steel pipes and is a method of protecting assets from corrosion by maintaining an electrical potential between the asset and anodes placed at strategic points along the asset. Where a new service is to be laid and similarly protected, the party installing the CP system will undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

Should any cathodic protection posts or associated apparatus need moving to facilitate third party works, appropriate notice, at least 14 days, shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

7.1.7 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel asset, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment and method statement shall be submitted to Cadent for approval, prior to the works.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent's asset. The costs for any stray current mitigation systems required will be borne by the third party promoter.

7.2 Construction traffic

Where existing roads cannot be used, construction traffic should ONLY cross the asset at agreed locations. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points. The fence should cover the width of the easement and extend a further 6 metres along the length of the easement on both sides. **(See figure 2)**

The asset shall be protected, at the crossing points, by a suitable method agreed with the Cadent responsible person prior to installation. The third party shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the raft required.

For larger scale projects, or permanent solutions, a protection slab may be required.

7.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of the asset. The promoter of works is required to consult Cadent when intending to undertake one of the listed activities and/or further advice is required on whether the work has the potential to affect the asset. The table to the right shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought **(see Sections 6.3.1 to 6.3.13 for further details)**

Activity	**Distance within which Cadent advice shall be sought**
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Surface mineral extraction	**100 m**
Landfilling	**100 m**
Demolition	**150 m or 400m for structure mass >10000 tonnes**
Blasting	**500 m if the MIC is greater than 200 kg** **250 m if the MIC is greater than 10 kg but less than 200 kg** **100 m if the MIC is 10 kg or less.**
Deep mining	**1000 m**
Wind turbine	**Not permitted within 1.5 times the turbine mast height from the nearest edge of a pipeline (please see www.ukopa.co.uk)**

7 Working in the vicinity of a gas asset not exceeding 2 bar

7.3.6 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100 metres of an asset. Consideration should also be given to extraction around plant and equipment associated with assets (e.g cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined by Cadent. Where an easement exists, the easement strip should be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope needs to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- bulging,
- the development of tension cracks on the slope or easement,
- any changes in drainage around the slope.

The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100 metres of the asset but do not extend up to the asset easement boundary, Cadent shall assess whether this could promote instability in the vicinity of the asset.

This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of **Section 7.3.5** apply.

7.3.7 Deep mining

Assets routed within 1 km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.

7.3.8 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100 metres of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

7.3.9 Pressure testing

Pressure testing should not be permitted within 8 m of an asset unless suitable precautions have been taken against the effects of a pipe failure.

7.3.10 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of PE or steel assets that will result in peak particle velocities in excess of 50 mm/sec at the asset or for ductile or cast iron assets that will result in peak particle velocities in excess of 25 mm/ sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

7.3.11 Hot work

Where the Cadent's metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions has been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, should not take place within 0.5 metres of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent responsible person to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent responsible person will determine the need to remain on site to monitor all welding, burning or other 'hot work' that takes place.

7.3.12 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

7.3.13 Solar Farms

Solar Farms can be built adjacent to assets but never within the easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.

10 References

NRSWA	**New Roads & Street Works Act**
HS(G)47	**HSE Guidance 'Avoiding Danger from Underground Services'**
IGEM/SR/18	**Safe Working Practices to Ensure the Integrity of Gas Pipelines and Associated Installations (Institution of Gas Engineers)**

11 Glossary of Terms

Easement

Easements are negotiated legal entitlements between Cadent and landowners and allow Cadent to lay, operate and maintain assets within the easement strip. Easement strips may vary in width, typically between 6 and 25 metres depending on the diameter and pressure of the pipeline. Consult Cadent for details of the extent of the easement strip where work is intended.

Liquefaction

Liquefaction is a phenomenon in which the strength and stiffness of the soil is reduced by earthquake shaking or other rapid loading. Liquefaction occurs in saturated soils, that is, soils in which the space between individual particles is completely filled with water. When liquefaction occurs, the strength of the soil decreases and the ability of the soil to support assets are reduced.

Promoter of works

The person or persons, firm, company or authority for whom new services, structures or other works in the vicinity of existing Cadent assets are being undertaken.

Cadent responsible person

The person or persons appointed by Cadent with the competencies required to act as the Cadent representative for the purpose of monitoring the particular activity.

Banksman

Another person who assists the machine operator to drive from a position where they can safely see into the excavation and warn the driver of any services or other obstacles.

This person should remain outside of the operating radius of the excavator arm and bucket.

Appendix A

Asset location markers

Emergency

If you hit an asset, whether the damage is visible or not, or in the event of an emergency, call the National Gas Emergency Service immediately on

0800 111 999*

*All calls are recorded and may be monitored

If you are planning to do work near or in the vicinity of an asset, please contact the Plant Protection team for free on:

0800 688 588*
plantprotection@cadentgas.com

Cadent Plant Protection
Block 1
Brick Kiln Street
Hinckley
LE10 0NA

Self service for plant enquiries

beforeyoudig.nationalgrid.com

This is a free online enquiry service giving results within minutes from a grid reference, postcode or street name. This site allows you to submit enquiries about activities and work that you are planning, which may have an impact on the Cadent gas distribution and networks.

linesearchbeforeudig.co.uk

This is a free online enquiry service giving instant results from a grid reference, postcode or street name. If your result is within a zone of interest, you can click directly through to **cadentgas.com/digging-safely.**

Note
Linesearch service is not available for all Cadent assets. Therefore, please click on the Cadent link or call Plant Protection to ensure you have all the available information.

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SSW22_v1

Electric

Electricity North West
Data Management,
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk
Web: www.enwl.co.uk

Our Reference: 24943256

Your Reference: levenshulme Road

Electricity Network Plans

I acknowledge with thanks your request dated 07/03/2022 08:16:13 PM for information on the location of our services.

Please find enclosed plan(s) showing the approximate position of our apparatus known to be in the vicinity of this site.

I attach Conditions and information regarding electricity mains, which details contact numbers for additional services (i.e. new supplies, connections, diversion). In addition you should ensure they are made available to anyone carrying out any works which may affect our apparatus.

Yours sincerely,

Data Management

Date Requested: 07/03/2022

Job Reference: 24943256

Your Scheme/Reference: levenshulme Roac

Dig Sites:

Area Line

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
6kV-6.6kV	Blue	
1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	

Data Management
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Scales on A4 paper:
1:1250 Area dig site
1:250 Line dig site

Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited.

Reproduced from or based upon Ordnance Survey's map with the permission of Her Majesty's Stationary Office. Crown Copyright Reserved. LICENCE No. 100017892. Unauthorised reproduction may lead to Prosecution or Civil Proceedings.

Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949

Conditions and information regarding electricity mains

These general conditions and precautions apply to the electricity distribution system of Electricity North West Limited.

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

1. There may be other Electricity North West Limited apparatus in the vicinity, which is not indicated on the cable records. Other apparatus may also be present which a third party owns other than Electricity North West Limited

2. Before any machines are used all of Electricity North West's underground apparatus should be located by manual excavation taking the appropriate safety precautions in accordance with the **Health and Safety Executive Guidance note HS(G)47 "Avoiding danger from underground services"**. This contains advice to site personnel when working near underground services.

   Underground services, particularly electricity and gas, can be dangerous. Damage to electricity cables can cause a dangerous flash, leading to severe burns or even death. Gas leaks can cause fire or explosion.

   Damage can result from excavation or penetration of the ground, e.g. by a road pin.

   Underground services may be found in roads, footpaths and on sites. Always assume that they are present. Treat any services found anywhere as live.

   Accidents have happened because people have mistaken one service for another, e.g. black plastic covered electricity cables look like black plastic water pipes and cast iron gas and water mains look alike. Check before you act.

3. Before starting work you must:

   - Make sure you have plans of the underground services in the area. This may not always be possible for emergency or unforeseen works. **Remember that service connection cables and pipes from the main to building or streetlight may not be shown**.
   - Use a cable and pipe locator to trace electricity cables and metal pipes.
   - Look for signs of service connection cables or pipes, e.g. a gas meter or service connection entry into a house or a streetlight.
   - Hand dig trial holes (as many as necessary) to confirm the position of services in close proximity to the area of work.

4. When you start work:

   - Hand dig near buried services whenever possible. Spades and shovels are safer than picks, pins or forks.
   - Remember that cables may be embedded in concrete. Electricity cables embedded in concrete **must** either be made dead before the concrete is broken out or another safe way of working agreed with the cable owner.
   - Watch out for signs of services as work continues.
   - Report damage to a cable, pipe or pipe coating however slight.
   - Do not use hand held power tools within 0.5m of he marked position of an electricity cable, unless this is impracticable and the line of the cable has been identified by plans and positively confirmed by a locator.
   - Do not use hand held power tools directly over the marked line of cable unless:

     a) You have already found the cable at that position by careful hand digging beneath the surface and it is at a safe depth (at least 300mm) below the bottom of the surface to be broken, or

     b) Physical means have been used to prevent the tool striking it.

   - If an excavator is used near an electricity cable keep everyone clear of the bucket while it is digging. Buckets should not be used near cable – hand dig.
   - Do not use exposed services as a convenient step or handhold.
   - Do not handle or attempt to alter the position of an exposed service.
   - Do not install plant close to an existing service.
   - Do not build existing services into a manhole or other structure or encase them in concrete.

Would you also ensure that all site operators have this information and if any electrical apparatus is damaged, they/you should contact Electricity North West Limited fault desk on **0800 195 4141 (option 1)**

5. Overhead lines are not necessarily shown on the Electricity North West Limited cable records but may be present. In the event of work being carried out adjacent to overhead lines (including access, storage etc.) please always ensure strict adherence to the requirements of the **Health and Safety Executive's Document GS6 "Avoidance of Danger from Overhead Electric Lines"**.

   Extreme personal danger can result from contact, or near contact, with live conductors or overhead lines.

   Treat all overhead lines and other electrical apparatus as live. If in doubt, get advice.

6. Electricity North West Limited must be consulted if work is to take place within 15 metres of overhead lines on steel towers or 9 metres of overhead lines on wood, concrete or steel pylons. (All distances should be measure at ground level from a position estimated by eye to be vertically under the outermost conductor at a tower or pole position) Any person involved in work in the vicinity of overhead lines should:

   - Understand and follow the instructions given on safe working areas and methods of work.
   - Make sure that warning notices are in the cabs of machines working in the vicinity of an overhead line.
   - Make sure that barriers and warning notices are erected as required.
   - Not tip soil or stack material underneath overhead lines as this may reduce the clearance to an unsafe distance.
   - Make sure when handling or using platforms, scaffold, poles, piping, ladders, hand tools etc., that they are kept at a safe distance from overhead lines.
   - Not steady a suspended load, skip, hoist wire, slings etc., unless satisfied that there isn't any danger from overhead lines.
   - Remember that when mobile plant, such as a crane or excavator, is operating near overhead lines , the raising or slewing of the jib may introduce danger.
   - Always keep overhead lines in view when manoeuvring mobile plant.
   - Never operate a machine unless carefully guided by an experienced banksman.
   - Not approach or touch any broken or fallen conductors or any plant in contact with an overhead line before Electricity North West Limited confirms that conditions are safe. Warn others to keep well clear.

   Machine operators should note that: if a machine comes into contact with an overhead line and cannot be disentangled by backing off, remain seated in the cab and warn others to keep clear of the machine until Electricity North West Limited confirms that conditions are safe. If it is essential to leave the machine while it is in contact with the overhead line, for example if it catches fire, jump well clear – and **do not** attempt to climb down in the normal way nor touch any part of the machine when on the ground.

7. Electricity North West Limited provides approximate locations of its electricity mains or apparatus according to its records but these records are not necessarily accurate or complete and do not always show the position of private cables from mains to properties. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated.

8. Care should be taken when excavating near cables. Known road crossings are highlighted on the enclosed plans. Should any cable, or Electricity North West Limited apparatus indicated on the attached plans, be affected by your proposals please contact us as follows:

   Data Management
   Linley House
   Dickinson St
   Manchester
   M1 4LF

   Telephone: **0800 195 4141 (option 2)**

   Details of diversion costs, if any, will be provided on request once your firm proposals have been submitted.

9. Please note that service cables may be affected by some of the works being carried out on site.

   If any services do require temporary disconnection please phone **0800 195 4141 (option 2)** for domestic and commercial disconnection, so that arrangement can be made to disconnect before work commences on site.

10. For information regarding supplies please contact us on **0800 195 4141 (option 2)**.

11. Please note that cable records supplied may not be up to date, or may be incomplete, if the area concerned is a new site.

12. For information regarding wayleave or easement agreements contact:

Manchester	**08433 115157**
Preston	**08433 113969**
Kendal	**08433 115155**

13. The latest cable records are always available for inspection during normal working hours and you should satisfy yourself that the information you have is up to date at the time you commence work. This service is consistent with the requirement of Regulation 36 of the Electricity Supply Regulations and paragraph 79 of the New Road and Street Works Act.

    Please contact Data Management on **0800 195 4141 (option 2)** to arrange an appointment to view the records.

304 Bridgewater Place
Birchwood Park
Warrington
WA3 6XG

www.enwl.co.uk

Registered in England and Wales
Registered Number 2366949

BT (Openreach)

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

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

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Controller of Her Majesty's Stationary Office
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KEY TO BT SYMBOLS

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	K	Duct	

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 : KVJ10313L
Map Reference : (centre) SJ8869295452
Easting/Northing : (centre) 388692,395452
Issued : 07/03/2022 22:31:42

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)
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KEY TO BT SYMBOLS

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	(K)	Duct	

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 : PJJ10315C
Map Reference : (centre) SJ8869295452
Easting/Northing : (centre) 388692,395452
Issued : 07/03/2022 22:32:04

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

openreach

Identifying our equipment

If you're planning or building a new development, working on a regeneration project or undertaking roadworks it's likely that you'll come across some of our network infrastructure.

This guide includes images and descriptions of the most common types of equipment (past and present) to help you identify what's on your site so we can best advise you if you need anything moved or removed.

If you're not sure, please contact us – ideally sending a photo of the plant on your site – before you start work.

Poles and attachments

There are currently three materials used for poles: wood, steel and fibreglass.
Wooden poles vary in length from 7 to 15m depending on the span the lines need to cover.

There are two types of pole in use:

- **Radial Distribution Poles:** typically to serve a number of properties in a street
- **Carrier Poles:** typically found in more rural locations, these are often used to provide an overhead route from A to B.

Pole markings

Owner of the pole – In this case BT. Older poles may also be marked as GPO or PO

Pole length and class (light, medium or stout) – 10L = 10m light

Year of preservation – 97

Supplier marker and type of wood – 2I = supplier 2 and Imported (I)

The punch hole sign is a testing cycle sign. This label is for internal Openreach use.

The pole reference number:

Distribution Pole – The letters DP, plus a number, in this case 19.

Carrier Pole – No letters, just a number will be shown.

You may also see square metal labels with a letter on a pole, i.e. C, D, H, SD and Z. These indicate the status of the pole to a visiting engineer.

Street covers and cabinets

Street covers and cabinets (PCP) have changed over the years, from cast iron to fibreglass to pressed steel. Sizes vary and all are made in single door versions. The most common examples are:

Cast iron cabinet

Fibreglass cabinet

Single door cabinet (with replacement steel door)

Steel cabinet

All-in-one cabinet

How to spot one of our cabinets: keys and markings

Openreach and Virgin Media both have street cabinets and they look quite similar. Often the only difference is the type of key needed to open them. Openreach cabinets have a triangular or star shaped insert, while Virgin Media use conventional keys (see below).

Openreach keys

Virgin Media key

All Openreach cabinets, frames and covers, are marked to show who owns them. Examples of these markings and the materials cabinets are made of are shown below.

Cast iron GPO marking

Fibreglass Telecom marking

Steel BT marking

Carriageway covers

These boxes generally contain small customer connections. The old type of covers were made of concrete with a concrete lid while current covers are made of fibreglass and have a steel lid.

There are generally two types of carriageway covers. Those with a T-shaped key, the Silent Night, and those with a D-shaped key, the Elkington. Both types were supplied in all sizes and while the design varied slightly all have ownership markings on them.

All sizes are approximate.

Carriageway covers with two triangular lids

CW No.1
Silent Night
680mm x 680mm

CW No.1
old type (Elkington)
inserts vary

Very old round
CW no.1

Carriageway covers with four triangular lids

CW No.2 Silent Night
1220mm x 680mm

CW No.2 old type
(Elkington)

Carriageway covers with six triangular lids

CW No.3 current type

CW No.3 Silent Night type

CW No.3 Elkington type

Footway covers

Footway covers come in six basic sizes: small, medium, large, square, twin and triple, although there are size variants within some types. All sizes are approximate.

Small covers

These lids cover boxes which generally contain small customer connections. Previously the boxes and lids were made of concrete, but the current footway boxes are made of fibreglass and have steel lids.

JB21 31x41cm

JB22 41x61cm

JB23 28x50cm

Medium covers

There is only one size of cover in this category. This lid can be found on a fibreglass preformed box, JB26, as well as a concrete/brick chamber, JF2. As with the JB 23 small footway box above the JB26 will have a thin white edge around the cover while the JF2 has a fillet.

Old style cast iron and concrete 38x80cm

JF2/JB26 34x80cm

Large covers

Along with the twin, this is probably the most common footway type in the network. Originally the covers were made of cast iron and concrete but now they're just made of concrete.

JF4 current type 55x100cm

JF4 old type 55x100cm

Square covers

These covers are placed over manholes and are found in the footways and verges.

JF5 70x70cm

JF5 old type 70x70cm

Twin covers

This cover shown in the section is probably the most common footway type in our network. Originally the cover was made of cast iron and concrete but now they're just made of concrete. You can see variations to the inserts and markings below.

JF6
70x140cm

JF6 old cast and concrete type 70x140cm

Triple covers

The two sizes of triple lid covers are shown here.

JF10 80x240cm

JF11 80x140cm

Inserts and markings

In this section you can see examples of the markings that you would expect to find on our equipment.

Footway

Examples of the current JF4 and JF5 inserts are shown below. The number ‘4’ or ‘5’ shown on the right hand side of the insert identifies the type. The letters ‘DW’ shown on the top right hand corner of the JF5 box indicate that this is a drive way lid built to stand further loading.

JF4

JF5

The following examples show the changes undertaken from GPO to BT.

Carriageway

The current marking is shown below, with some of the older versions beneath.

Current marking

Older markings

Non-standard plant

Some locations have used bespoke cover infills which improve the aesthetics of the area, enhance paving designs or accommodate high tactile surfacing. The scope of these type of covers is endless.

Maintenance for these covers may not reside with Openreach as often the responsibility remains with the Authority.

A small selection of non-standard footway and carriageway covers are shown below.

FW No.4

CW No.3 insert type

FW No.6

Detail of legend built into frame

National Telephone Company Limited

Disclaimer
This document contains information intended to help you to identify Openreach equipment on your site and is provided for information purposes only. Whilst Openreach makes every effort to ensure that the information contained in this document is accurate, Openreach does not represent that it is complete. The contents of this pack cannot be copied or reproduced in whole or in part without the written consent of British Telecommunications plc, through its division, Openreach.

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Rail

Worksite Survey Team
National Records Centre
Audax Road
YORK

YO30 4US

NRSWA Asset Enquiries

Dear Sir/Madam,

Please find information available as per the checklist.

The information contained herein is based on Network Rail's records and, where appropriate, third parties such as utility companies. The search enclosed does not cover a search of local council records. Also, schematic Signal and Telecom (S&T) cables plans are not provided as part of the search results, therefore you must assume S&T cables are present until proven otherwise.

Although at the date of this letter the information is as up to date as possible, it is **NOT** a statement of validity, accuracy or completeness as to any of the enclosed search information and must not be relied on as such.

Your risk assessment **MUST** take into account:

- That the information supplied, including the services shown on the map from the Rail Infrastructure Network Model (RINM), does not provide any guarantee as to the accuracy of the actual location of services on site and **MUST** be considered as for guidance purposes only.
- That new/unrecorded services are likely to be present
- That the enclosed buried services search information has been collated only for the ELR and Mileage boundaries as stated on the original request form

Included in the buried services search is a list of ASPRO engineers & managers you **MUST** contact before any ground disturbance is carried out, to check whether further information is held locally.

Further guidance can be obtained from the Health and Safety Executive publication HSG47 "Avoiding Danger from Underground Services" and the Network Rail Publication NR/L2/INI/CP1030.

Should you become aware of any additional underground services or assets within the locality during your investigations and/or works, including redundant assets, please identify them as a matter of urgency to the site manager. Records of the location of these assets should be kept for onward transmission and entry into the Hazard Directory.

Yours sincerely

NRSWA Team

Worksite Survey

Buried Services Information Checklist

Your Ref	Levenshulme Road Manchester	Our Order Ref	127540

Network Rail Record Type	Category	Enclosed Yes/No	Notes (e.g. Nil Return)
Asset Protection National Map	Contact Ino	Y	
Hazard Directory	Hazard	Y	
Site Map	GIS Systems	Y	
eB - Corporate records management system	National Records Group	N	NIL RETURN
Network Rail - Drainage	GIS Systems	Y	
National Records Group - Civils Records	National Records Group	Y	

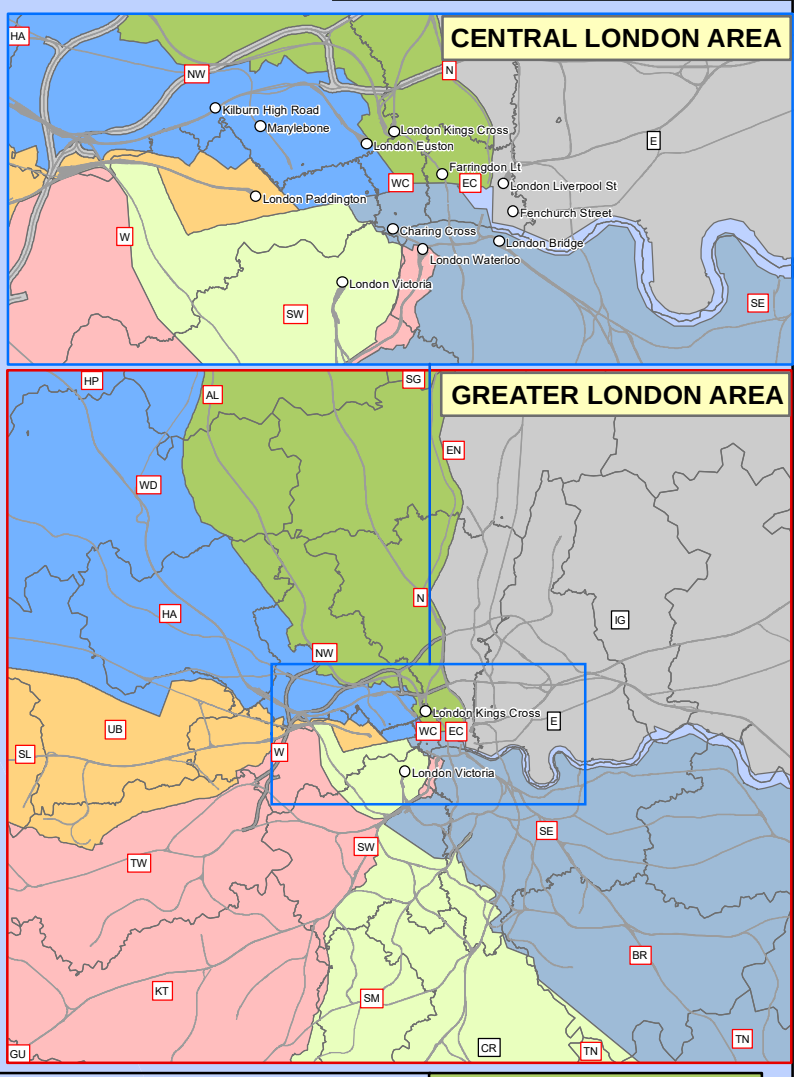
NIL RETURN: After interrogating the information made available to us, no records containing buried services information have been returned for this worksite. However, reference must be made to the guidelines supplied with this buried services search, which contain important information on safe working practices.

Please complete a development questionnaire and submit it to the relevant route email address found on the map below

The Asset Protection Project Managers lead dedicated teams in providing advice to the public who are planning activities on or near the railway.

The teams deal with a multitude of issues including neighbouring construction sites, utility works, bridge works, domestic maintenance, new road schemes, inspection and surveying and works within the designated precautionary area of level crossings.

* It does not cover subjects such as emergencies, Town & Country Planning, property Sales or complaints.



SCOTLAND

Network Rail
Asset Protection Team
Floor 2, Buchanan House
58 Port Dundas Road
Glasgow
G4 0LQ

Tel:- 0141 555 4087

Manager: Raymond Sheridan

NEW ENQUIRIES
AssetProtectionScotland@networkrail.co.uk

EAST MIDLANDS, NORTH, EAST AND EAST COAST ROUTES

Network Rail
Asset Protection Team
George Stephenson House
Toft Green
York
YO1 6JT

Tel:- 01904 384002

Manager: Ben Brooks

NEW ENQUIRIES
AssetProtectionEastern@networkrail.co.uk

NORTH WEST

Network Rail
Asset Protection Team
Floor 1, Square One
4 Travis Street
Manchester
M1 2NY

Tel:- 0161 880 3706

Manager: Mark Stevens

NEW ENQUIRIES
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Network Rail (High Speed)

Website location: Network Rail / Industry & Partners / Network interface - High Speed 1

NEW ENQUIRIES
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0 30 60 120 Miles

LEGEND

CH UK Postcode (within single NR Territory)

CH UK Postcode (split between NR Territories)

Rail Network

ASPRO NATIONAL MAP

CLIENT:	TECHNICAL AUTHORITY		
JOB NO.:	10519.107	USE TYPE:	[INTERNAL]
SCALE :	1:3,000,000 @ A3	DATE:	28/09/2020
VERSION:	01	PRODUCED BY: EB	QA BY: JB

Asset Information Services

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GeospatialReportingAnalysis@NetworkRail.co.uk

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Order ID: 127540

ELR	Start Mileage	End Mileage
TTA2	44.1381	44.1684

National Hazard Directory

Terms and Conditions

The National Hazard Directory (NHD) is issued by Network Rail to provide information on those hazards recorded as present on Network Rail's infrastructure. Its' purpose is to alert users to the typical hazards they may come across whilst working on Network Rail's Infrastructure. The National Hazard Directory is maintained by Network Rail to provide its employees and contractors with information on known hazards present on the infrastructure in order to assist in the identification of the associated risks working 'on or near the line'.

The records are updated regularly and therefore Network Rail believe that the contents are reasonably accurate at the time of issue, but some of the information can vary in age and accuracy so for that reason Network Rail will give no warranty as to the suitability of its use. It is recommended that all searches (in particular for buried services) should be conducted together with a site specific risk assessment/site visit, taking into account the requirements of the appropriate track safety rules, rule books/industry standards and so on. Network Rail will accept no liability in respect of the content or subsequent use of the National Hazard Directory or any of the information contained within.

Users of the Directory must note that when working on or near the line that the appropriate requirements of the Rule Book, especially the provisions of the track safety rules, must be applied as appropriate to the activity concerned.

OnTrac Ltd does not warrant the use of the Network Rail National Hazard Directory or any of the information contained within and no representations or warranties are made as to completeness or accuracy of the data. The data should be used for reference purposes only. Accordingly, OnTrac Ltd will accept no responsibility for loss of profit or for any indirect, incidental or consequential damages.

National Hazard Directory

Customised Report

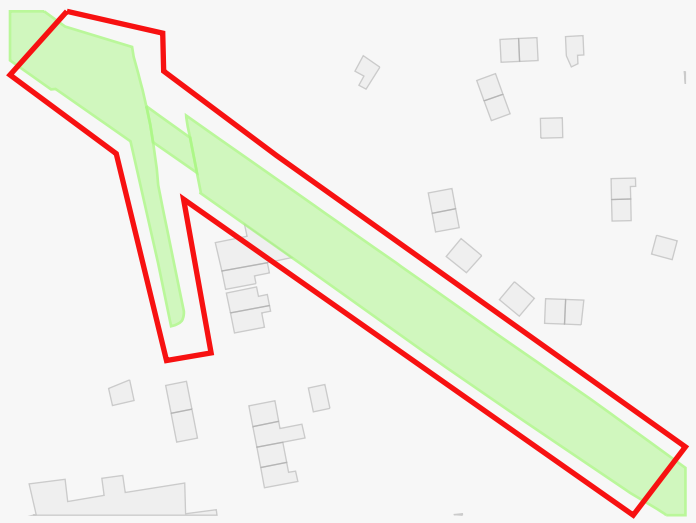
Search Criteria: ELR(s) = TTA2; Mileage From = 44.1381; Mileage To = 44.1684; Hazard Code(s) = HB, HBA, HBC, HBCS, HBD, HBE, HBF, HBFR, HBFS, HBG, HBI, HBL, HBM, HBN, HBO, HBP, HBR, HBS, HBSW, HBT, HBU, HBW, HCT, HU, HXE
Date: 09/03/2022

0 Hazards found.

ELR	ELR Name	Mileage From	Mileage To	Hazard Code	Hazard Description	Local Name	Track ID	Free Text

Page Navigation Index Map (1:2500 scale maps)

1



Legend

- Network Rail Company Ownership Boundary
- Order Polygon

Order ID: 127540

Plot Date: 07/03/22

N

NetworkRail

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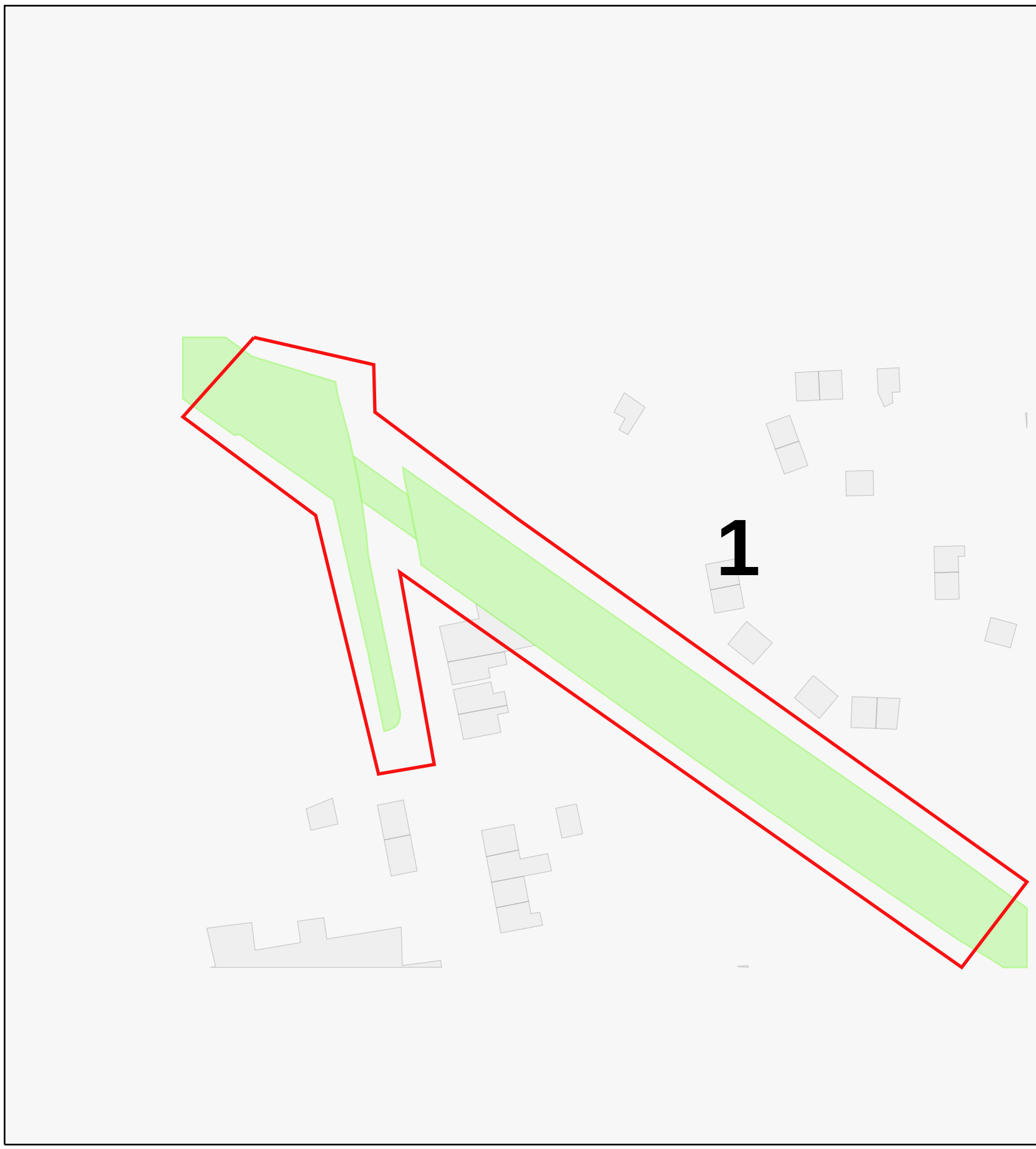
Ordnance Survey 0100040692

User Drawn Polygon / Area of Interest - Order ID : 127540

N
HYDE ROAD
GORTON ROAD
Sunny Brow Park
Malden's Bridge
BROOKHURST ROAD
St Philip's Church
POPLAR GROVE
MILLWOOD GROVE
Embassy Walk
Allotment Gardens
Library
Cemetery
Sandip
PH
Ryder Brow Stn
Ryder Brow Metrolink Stop
Ryder Brow Depot
Ryder Brow Sidings
Ryder Brow Junction
Ryder Brow Tunnel
Ryder Brow Bridge
Ryder Brow Viaduct
Ryder Brow Footbridge
Ryder Brow Level Crossing
Ryder Brow Signal Box
Ryder Brow Substation
Ryder Brow Control Point
Ryder Brow Yard

Page Navigation Index Map (1:1250 scale maps)



Legend

Network Rail Company Ownership Boundary

Order Polygon

Order ID: 127540

Plot Date: 07/03/22

N

NetworkRail

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Ordnance Survey 0100040692

Network Rail - Drainage

Legend

Company Ownership

- Freehold Ownership
- Leasehold Ownership
- Prohibitive Interest
- Bridge (Rail over Rail)
- Bridge (Rail over River)
- Bridge (Rail over Road)
- Bridge (Road over Rail)
- Level Crossing
- Tunnel
- Order Polygon

- DB Asset Line
- DC Asset Line
- Chamber (DD)
- Outfall (DK)
- Inflow (DL)
- Point (DM)
- Soakaway (DN)
- Pond (DY)
- Structure (DZ)

Order Ref: 127540
Plot Scale: 1:1250
Page Index: 1
Centre X, Y: 388706, 395521
Plot Date: 07/03/22

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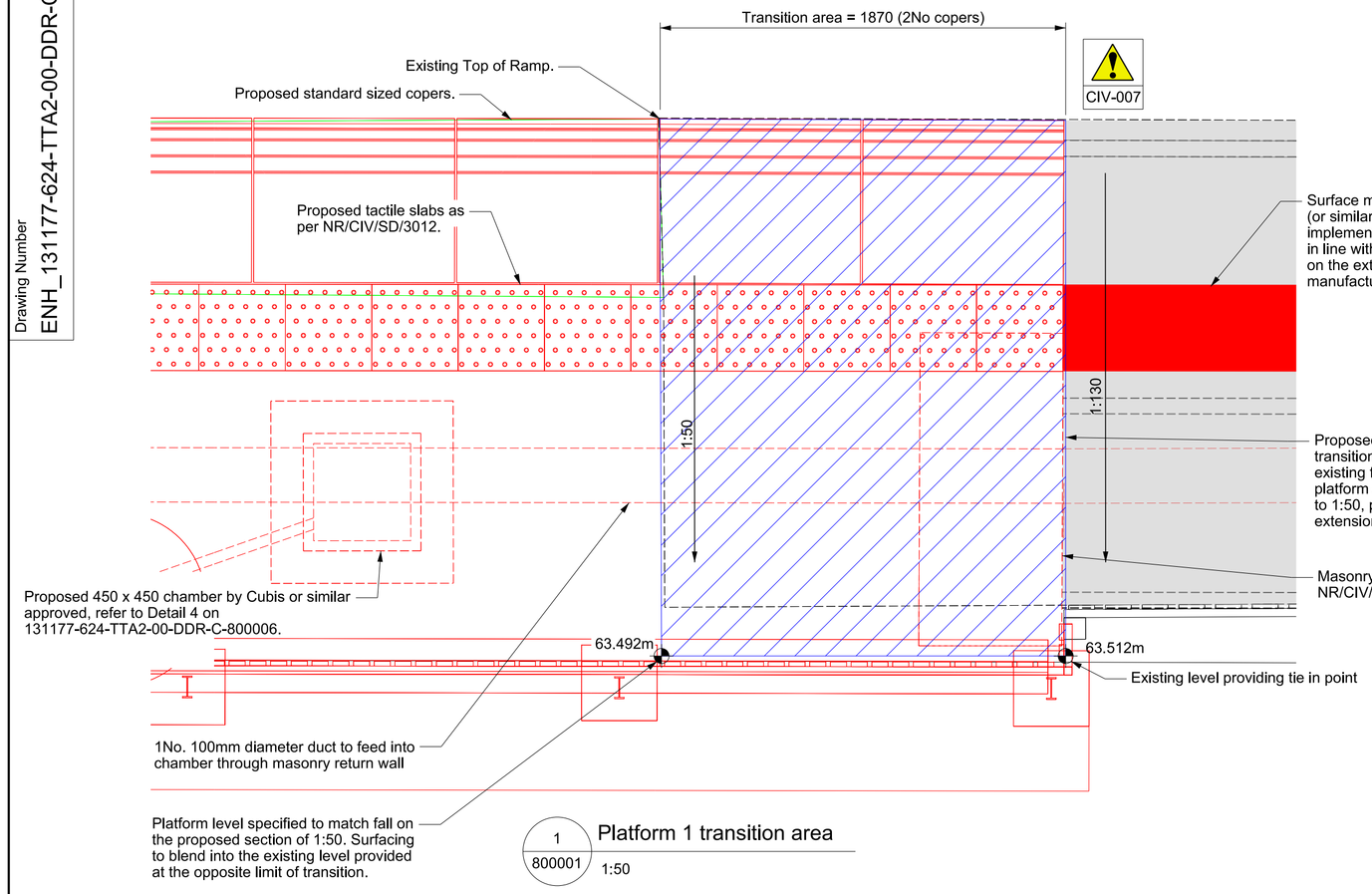
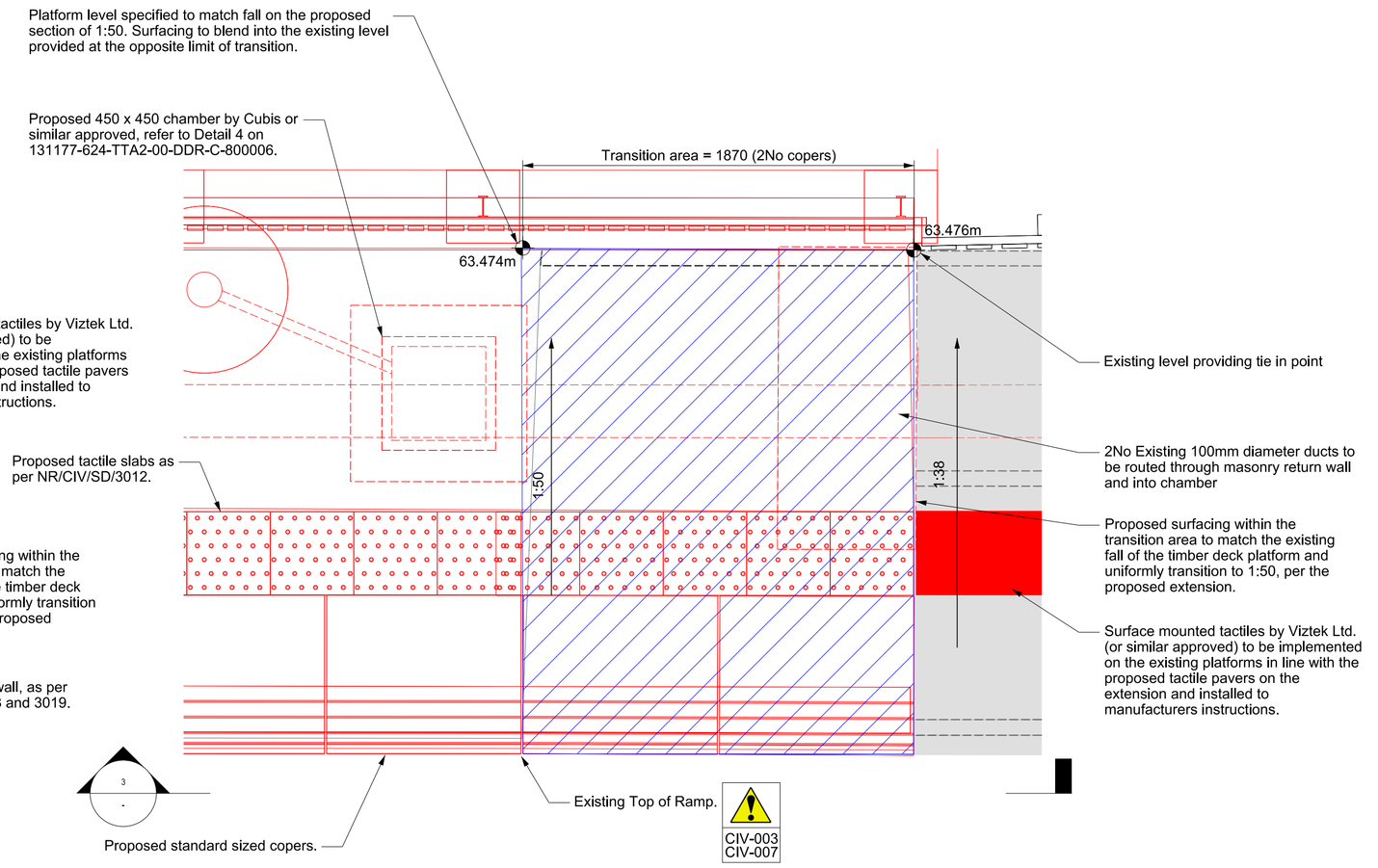
Ordnance Survey 0100040692

60bc9e07-9024-467a-b4e0-71ff2a4b509e

Drawing Number
ENH_131177-624-TTA2-00-DDR-C-800003 Z01

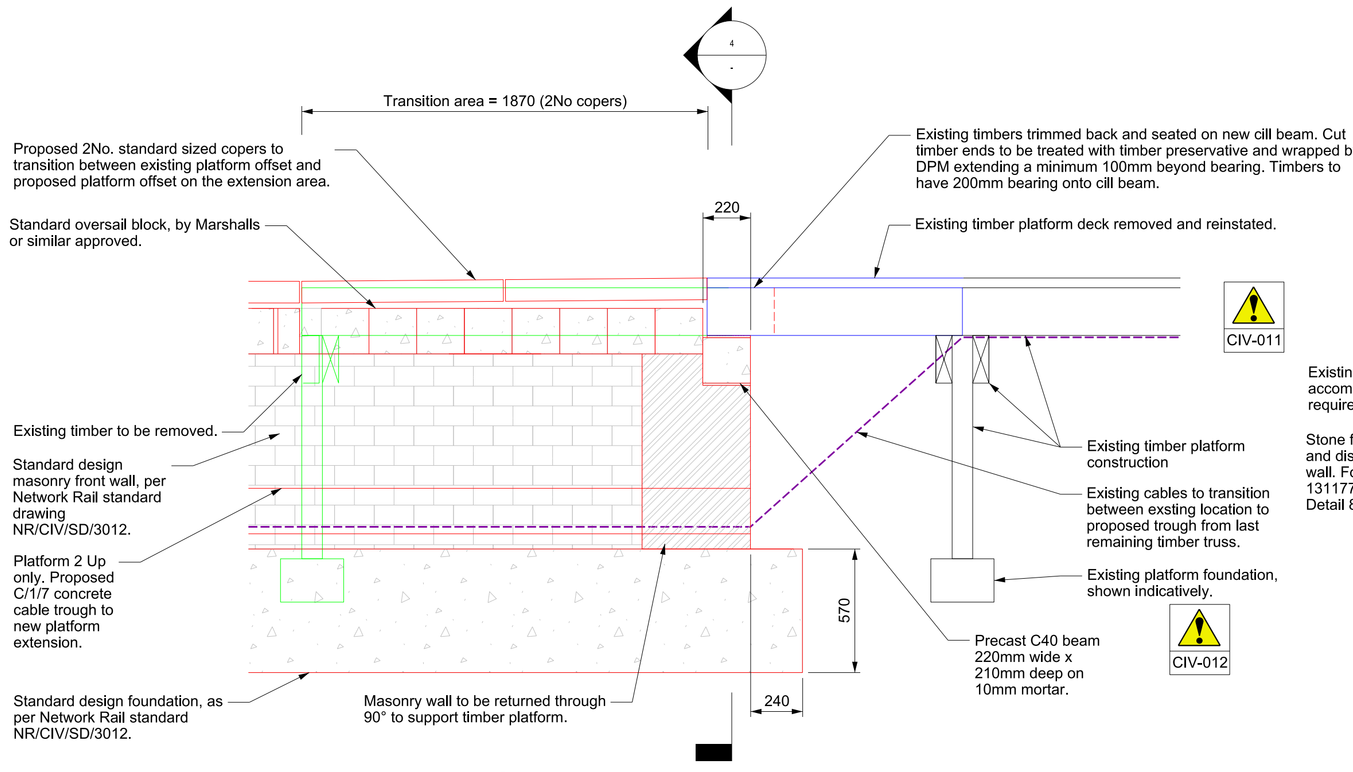


1 / 800001 Platform 1 transition area
1:50

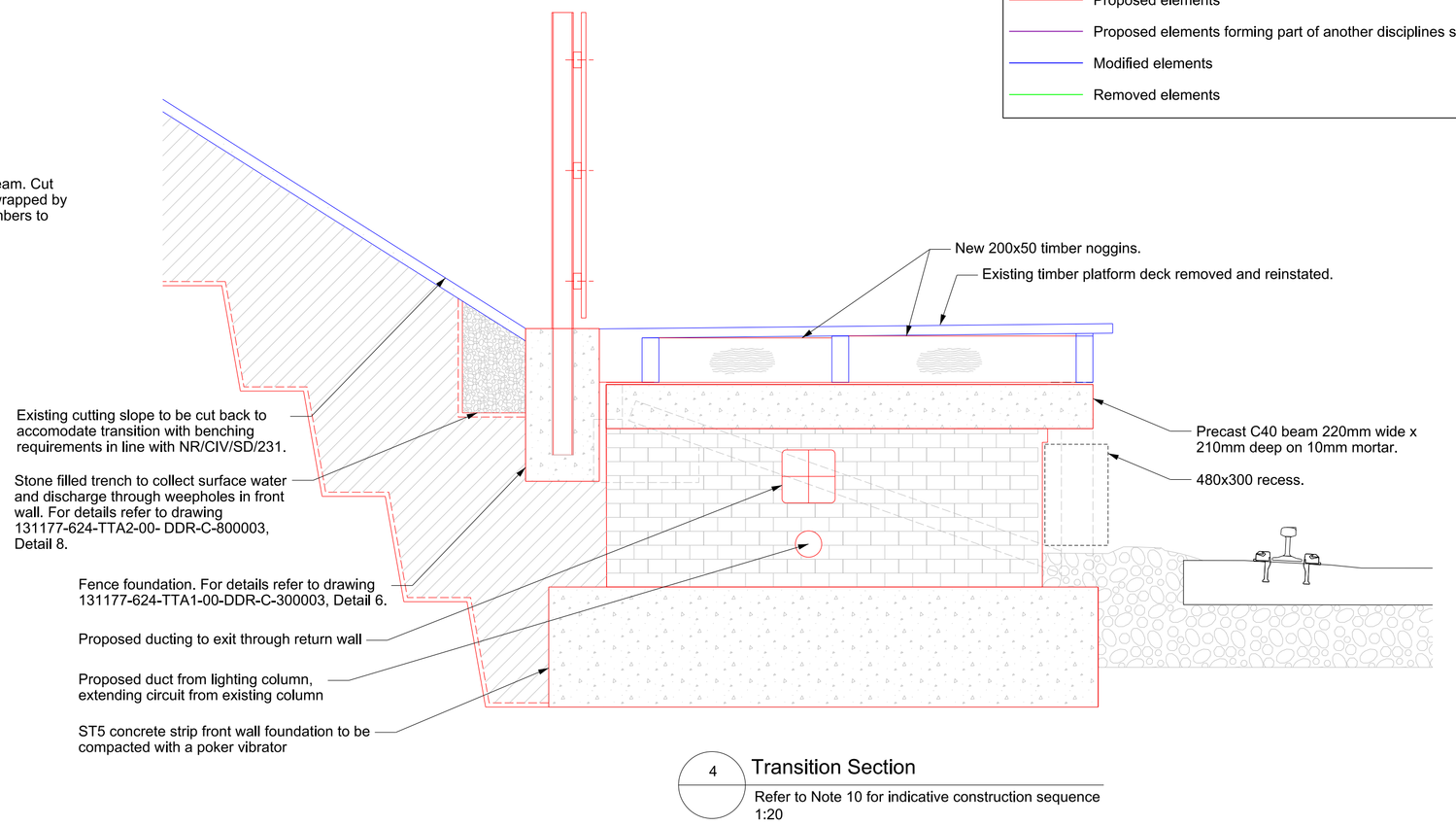


2 / 800001 Platform 2 transition area
1:50

Key:
- Existing elements
- Proposed elements
- Proposed elements forming part of another disciplines submission
- Modified elements
- Removed elements



3 / 800001 Transition Elevation
Refer to Note 10 for indicative construction sequence
1:20



4 Transition Section
Refer to Note 10 for indicative construction sequence
1:20

HAZARD WARNINGS
For full details refer to
131177-624-0000-00-LMS-W-100001

CIV-001	Instability and failure of cutting slope
CIV-002	Fall from platform height
CIV-003	Cable tray and trough
CIV-005	Unknown hazards / constraints in dense vegetation
CIV-007	Non-compliant recess
CIV-008	Buried services strike
CIV-011	Cutting timbers
CIV-012	Undermining existing foundations

0 200 400 600 800 1000mm
SCALE 1:10

0 0.4 0.8 1.2 1.6 2.0m
SCALE 1:20

0 1 2 3 4 5m
SCALE 1:50

Legend/Notes

1. All measurements in millimetres unless noted otherwise.
2. All levels in metres unless noted otherwise.
3. Do not scale from this drawing.
4. For setting out details, refer to drawing 131177-624-TTA2-00-DDR-C-800004 and 800005.
5. Mortar designation BS 5628 (1:4 cement:sand), accelerators not to be used, to be non shrink.
6. Platform surfacing to consist of 25mm bitumen macadam wearing course over 50mm bitumen macadam base course as per NR/CIV/SD/3012.
7. Lighting column foundations based upon design guidance given for the Abacus 8m raise and lower root mounted column, as per the F001 submission and in accordance with NR/CIV/SD/3014.
8. All access chambers to be MODULA Stakkabox by Cubis or similar approved.
9. Timber members were inspected during site visit 31/03/2019, the timber members were considered in good condition. If timbers members are damaged as a result of cutting, or thought to have deteriorated since inspection the designers are to be notified.
10. Indicative construction sequence for transition:
    - Remove surface boards
    - Excavate foundations for return wall and provide temporary retaining wall
    - Pour foundations and build wall with temporary support for timber joists
    - Apply mortar bed, cut and land timber joists.
11. Modified timber joists to be treated as per Specification documents 131177-624-0000-00-WEA-W-000002 and 000003.
12. As built information based on Red Line Drawings received from BGCL on 15/04/2020. MML has no liability for verifying the accuracy of the as built information. The details on this drawings has been informed as no change from the AFC version.

Z01

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)

800001	General Arrangement
800002	General Arrangement Sections and Front Wall Detail
800003	Transition Details
800004	Setting Out Details
800005	Foundation Setting Out
800006	Details

M&E drawings list (beginning with 131177-624-TTA2-00-DDR-E-)

000001	Proposed Lighting General Arrangement
000002	Proposed Electrical Schematic

Network Rail Standard Drawings list (beginning with NR-CIV-SD-)

3010	Traditional Front Wall Platform - General Notes Sheet 1
3011	Traditional Front Wall Platform - General Notes Sheet 2
3012	Traditional Front Wall Platform - Typical Cross Section Sheet 1
3013	Traditional Front Wall Platform - Typical Cross Section Sheet 2
3014	Lighting and Turning Chamber Details
3017	Construction Sequence
3018	Plan and Elevation on Platform End Steps Sheet 1
3019	Plan and Elevation on Platform End Steps Sheet 2
231	Slope Regrade Details

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P05	09/07/19	AFC Issue	MH	SD	BS
C01	24/04/20	AFC Issue	MH	SD	BS
P06	01/05/20	As-built	PW	TL	TL
Z01	09/10/20	As-built	PW	TL	TL

Status: As Built
Suitability: AB

NetworkRail

Authorised	B.Standring	Signed: Electronically Signed	Date: 09/10/20

Contractor(s): Buckingham Group Contracting Ltd

Location: REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)

Type	CAD Drawing	Sub-type	
Role	Civil Engineer	Sub-Role	Structures and Buildings
Zone	None Specific		
Phasing	As Built	Grip Stage	6

Project: Northern Programmes Enhancements

Contract No.: 131177

Contract Title: Northern Train Lengthening

Drawing Title: Ryder Brow Station
Proposed Extensions
Transition Details

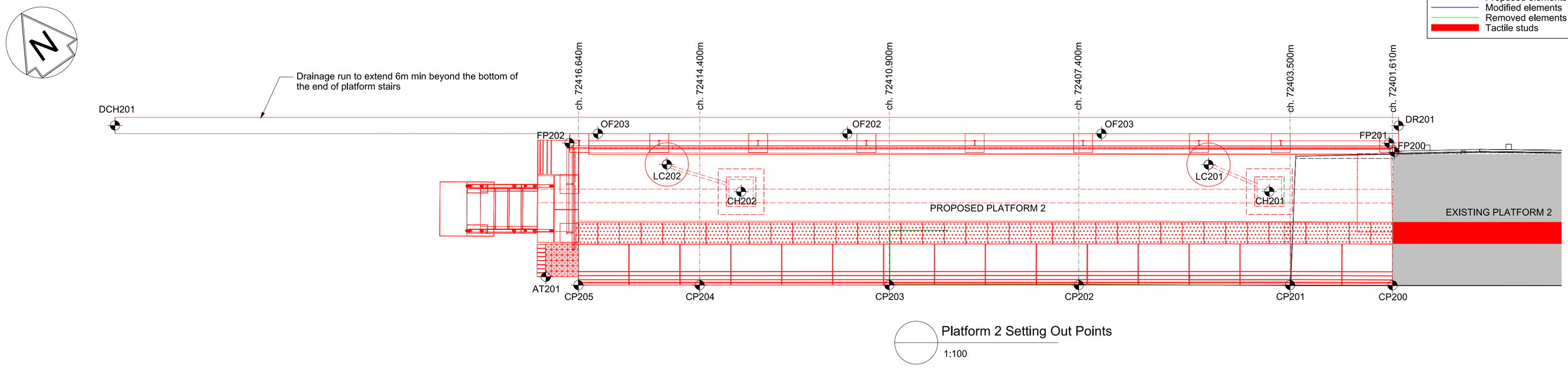
Designed	P Wieclaw	Signed: Electronically Signed	Date: 01/05/20
Drawn	P.Wieclaw	Signed: Electronically Signed	Date: 01/05/20
Checked	T.Lightfoot	Signed: Electronically Signed	Date: 01/05/20
Approved	T.Lightfoot	Signed: Electronically Signed	Date: 01/05/20

Scale(s): As Shown
ELR & Mileage: 45.0082 to 45.0082
Alternative Reference:
Sheet: 1 of 1
Drawing Number: ENH_131177-624-TTA2-00-DDR-C-800003
Revision: Z01

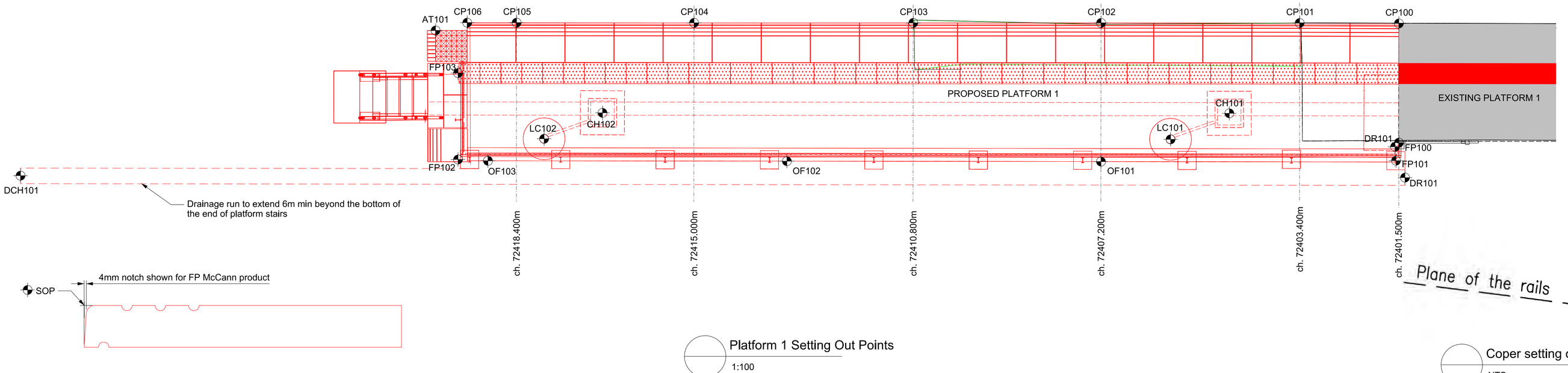
Sheet Size A1 594 x 841

Published
Published
Published
Published
Published
Published

Drawing Number
ENH_131177-624-TTA2-00-DDR-C-800004 Z01

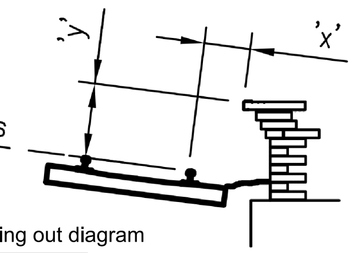


Platform 2 Setting Out Points
1:100

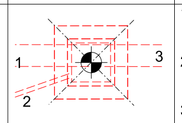
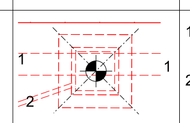
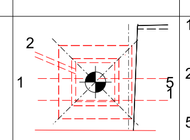
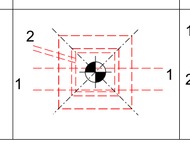


Coper Setting Out Point

Platform 1 Setting Out Points
1:100



Coper setting out diagram
NTS

	Chamber Ref.	Chamber Diagram	References	Invert Level	Chamber Type	Chamber Coordinates	Cover Level
Platform 1	CH101		1. 4-way 110I/D MULTIduct IL 62.734m 2. 50I/D uPVC flexiduct IL 62.734m 3. 100I/D uPVC flexiduct IL 62.584m	62.506m	450 x 450mm Modula STAKKAbox chamber with composite AX-S lid by Cubis or similar approved.	E: 208284.441m N: 402739.988m	63.486m
	CH102		1. 4-way 110I/D MULTIduct IL 62.683m 2. 50I/D uPVC flexiduct IL 62.583m	62.455m	450 x 450mm Modula STAKKAbox chamber with composite AX-S lid by Cubis or similar approved.	E: 208274.601m N: 402746.869m	63.435m
Platform 2	CH201		1. 4-way 110I/D MULTIduct IL 62.733m 2. 50I/D uPVC flexiduct IL 62.733m 5. 2No. 100I/D uPVC flexiduct IL 62.600m	62.505m	450 x 450mm Modula STAKKAbox chamber with composite AX-S lid by Cubis or similar approved.	E: 208290.722m N: 402747.499m	63.485m
	CH202		1. 4-way 110I/D MULTIduct IL 62.655m 2. 50I/D uPVC flexiduct IL 62.555m	62.427m	450 x 450mm Modula STAKKAbox chamber with composite AX-S lid by Cubis or similar approved.	E: 208282.754m N: 402753.093m	63.407m

Chamber Schedule

		Reference	Easting (m)	Northing (m)	Level (mAOD)	Horizontal tolerance	Vertical tolerance	See Note 6. Existing track vs design coper 'x'	See Note 6. Existing track vs design coper 'y'	Existing 'x'	Existing 'y'	See Note 6. Design 'x'	See Note 6. Design 'y'
Platform 1	Copers	CP100	208288.093	402739.542	63.530	±5mm	±5mm	-	-	-	-	737	910
		CP101	208286.536	402740.632	63.522	±5mm	±5mm	-	-	-	-	737	910
		CP102	208283.422	402742.810	63.497	±5mm	±5mm	835	926	-	-	737	910
		CP103	208280.472	402744.873	63.469	±5mm	±5mm	832	926	-	-	737	910
		CP104	208277.029	402747.278	63.434	±5mm	±5mm	824	928	-	-	737	910
		CP105	208274.242	402749.227	63.406	±5mm	±5mm	816	929	-	-	737	910
		CP106	208273.465	402749.770	63.398	±5mm	±5mm	-	-	-	-	737	910
		AT101	208272.887	402749.991	63.409	±5mm	±5mm	-	-	-	-	-	-
	Drainage Outfalls	OF101	208281.8283	402740.6823									
		OF102	208276.9163	402744.1217									
		OF103	208272.2169	402747.4121									
	Drainage Channel	DR101	208286.4956	402737.0482		-	-	-	-	-	-	-	-
		DR102	208264.7653	402752.2612		-	-	-	-	-	-	-	-
	Fence Posts	FP100	208286.741	402737.697	-	-	-	-	-	-	-	-	-
		FP101	208286.540	402737.414	-	-	-	-	-	-	-	-	-
		FP102	208271.817	402747.731	-	-	-	-	-	-	-	-	-
		FP103	208272.896	402749.265	-	-	-	-	-	-	-	-	-
	Lighting Columns	LC101	208283.234	402740.222	-	-	-	-	-	-	-	-	-
		LC102	208273.398	402747.101	-	-	-	-	-	-	-	-	-
Platform 2	Copers	CP200	208291.615	402744.759	63.526	±5mm	±5mm	-	-	-	-	737	910
		CP201	208290.062	402745.854	63.515	±5mm	±5mm	738	916	-	-	737	910
		CP202	208286.864	402748.087	63.480	±5mm	±5mm	739	914	-	-	737	910
		CP203	208283.995	402750.091	63.449	±5mm	±5mm	737	915	-	-	737	910
		CP204	208281.127	402752.093	63.417	±5mm	±5mm	732	912	-	-	737	910
		CP205	208279.289	402753.376	63.397	±5mm	±5mm	-	-			737	910
		AT201	208278.888	402753.849	63.399	±5mm	±5mm	-	-	-	-	-	-
	Drainage Outfalls	OF201	208288.6718	402750.0745									
		OF202	208284.958	402752.6679									
		OF203	208281.0589	402755.3907									
	Drainage Channel	DR201	208293.3916	402747.1237		-	-	-	-	-	-	-	-
		DR202	208273.9509	402760.6984		-	-	-	-	-	-	-	-
	Fence Posts	FP200	208293.017	402746.784		-	-	-	-	-	-	-	-
		FP201	208293.113	402746.922									
		FP202	208280.666	402755.630		-	-	-	-	-	-	-	-
		FP203	208279.599	402754.107		-	-	-	-	-	-	-	-
	Lighting Columns	LC201	208290.099	402748.541		-	-	-	-	-	-	-	-
		LC202	208281.903	402754.268		-	-	-	-	-	-	-	-

Setting Out Points

0 2 4 6 8 10m
SCALE 1:100

Legend/Notes

1. All dimensions are in millimetres unless noted otherwise.
2. All levels in metres above ordnance datum unless noted otherwise.
3. Do not scale from this drawing.
4. This drawing is based on topographical survey 131177-25067-TTA2-00-DM3-G-076300, undertaken by PBH Surveys, contracted by Arcadis in June 2018, and provided by Network Rail. Mott MacDonald accept no responsibility for the correctness of this information. Additional survey information 131177-624-0000-00-DM3-G-900044 A01 provided by Inorail, contracted by BGCL and referenced in this drawing. Coordinates given in this drawing correspond with the grid used in these surveys.
5. The platform extension setting out is straight. The contractor should set out to a straight line string. Should any setting out point diverge from the setting out string this should be reported to the design engineer for corrective action.
6. All setting out of design coper positions is to be to the 'Easting', 'Northing' and 'Level' coordinates. These are to be verified using track vs design coper 'x' and 'y' values. Design track vs design coper values are not to be used in this scheme.
7. The coper setting out positions are as per the Form A by Arcadis 131177-25067-TTA2-00-WEA-W-036300 P02. Mott MacDonald have not verified the figures provided in that Form A.
8. CP100 and CP200 are existing points on the timber deck which are to be tied into. FP100 and FP200 are existing points on the fence line to be tied into. Fence line coordinates are taken at every change in direction along the centreline of the fence posts.
9. For foundation setting out points, refer to drawing 131177-624-TTA2-00-DDR-C-800005.
10. Contractor to confirm lighting columns fall clear of the existing rear of platform fence prior to installation.
11. As built information based on Red Line Drawings received from BGCL on 15/04/2020. MML has no liability for verifying the accuracy of the as built information. The details on this drawings has been informed as no change from the AFC version.

Z01

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)

800001	General Arrangement
800002	General Arrangement Sections and Front Wall Detail
800003	Transition Details
800004	Setting Out Details
800005	Foundation Setting Out
800006	Details

M&E drawings list (beginning with 131177-624-TTA2-00-DDR-E-)

000001	Proposed Lighting General Arrangement
000002	Proposed Electrical Schematic

Network Rail Standard Drawings list (beginning with NR-CIV-SD-)

3010	Traditional Front Wall Platform - General Notes Sheet 1
3011	Traditional Front Wall Platform - General Notes Sheet 2
3012	Traditional Front Wall Platform - Typical Cross Section Sheet 1
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3014	Lighting and Turning Chamber Details
3017	Construction Sequence
3018	Plan and Elevation on Platform End Steps Sheet 1
3019	Plan and Elevation on Platform End Steps Sheet 2
231	Slope Regrade Details

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P05	09/07/19	AFC Issue	MH	SD	BS
C01	24/04/20	AFC Issue	MH	SD	BS
P06	01/05/20	As-built	PW	TL	TL
Z01	09/10/20	As-built	PW	TL	TL

Status: As Built
Suitability: AB

NetworkRail

Authorised: B.Standring
Signed: Electronically Signed
Date: 09/10/20

Contractor(s): Buckingham Group Contracting Ltd

Location: REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)
Type: CAD Drawing
Sub-type:
Role: Civil Engineer
Sub-Role: Structures and Buildings
Zone: None Specific
Phasing: As Built
Grip Stage: 6

Project: Northern Programmes Enhancements
Contract No.: 131177
Contract Title: Northern Train Lengthening
Drawing Title: Ryder Brow Station Platform Extensions Setting Out Details

Designed	P Wieclaw	Signed: Electronically Signed	Date: 01/05/20
Drawn	P.Wieclaw	Signed: Electronically Signed	Date: 01/05/20
Checked	T.Lightfoot	Signed: Electronically Signed	Date: 01/05/20
Approved	T.Lightfoot	Signed: Electronically Signed	Date: 01/05/20

Scale(s): As Shown
ELR & Mileage: TTA2 45m 0ch
Alternative Reference:
Sheet: 1 of 1
Drawing Number: ENH_131177-624-TTA2-00-DDR-C-800004
Revision: Z01

Sheet Size A1 594 x 841

Published Published Published Published Published

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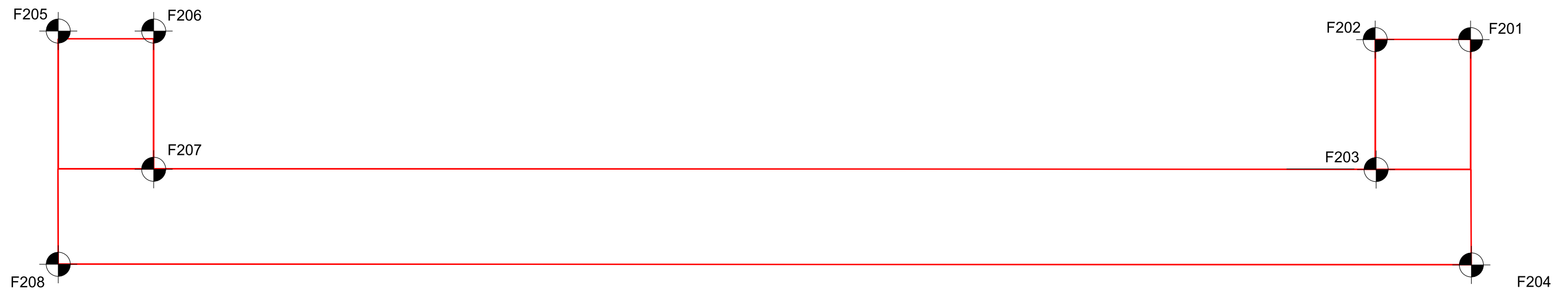
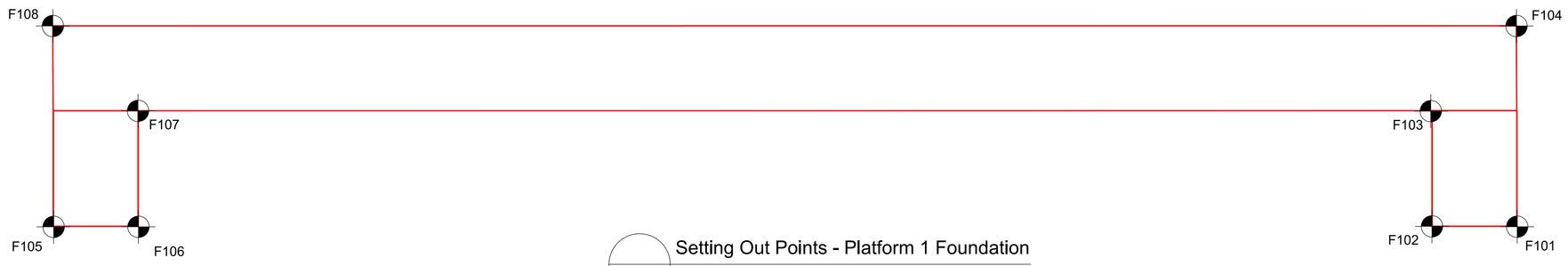
Drawing Number
ENH_131177-624-TTA2-00-DDR-C-800005 Z01



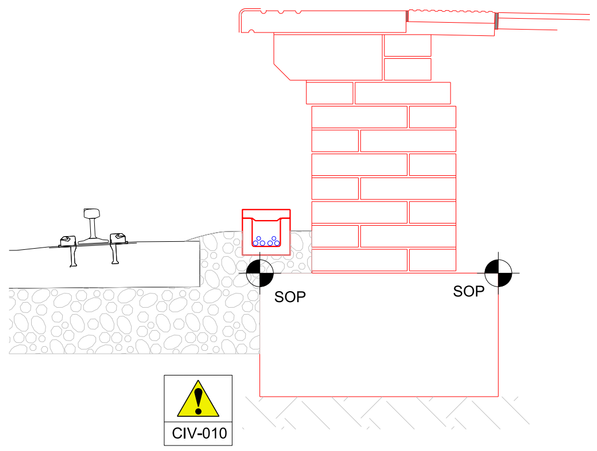
Setting Out Points - Platform 2 Foundation
1:50



Setting Out Points - Platform 1 Foundation
1:50

SOP	EASTING (m)	NORTHING (m)	Level (m)
F101	208286.758	402737.201	62.290
F102	208285.856	402737.831	62.281
F103	208286.715	402739.059	62.281
F104	208288.243	402739.332	62.290
F105	208271.205	402748.076	62.138
F106	208272.106	402747.445	62.147
F107	208272.965	402748.673	62.147
F108	208272.690	402750.207	62.138
F201	208293.347	402746.811	62.268
F202	208292.446	402747.441	62.259
F203	208291.588	402746.215	62.259
F204	208291.866	402744.676	62.269
F205	208280.001	402756.149	62.175
F206	208280.903	402755.519	62.184
F207	208280.044	402754.291	62.182
F208	208278.516	402754.018	62.175

Setting Out Points



Setting Out Points - Detail
1:20

Legend/Notes

1. All dimensions are in millimetres unless noted otherwise.
2. All levels in metres above ordnance datum unless noted otherwise.
3. Do not scale from this drawing.
4. This drawing is based on topographical survey 131177-25067-TTA2-00-DM3-G-076300, undertaken by PBH Surveys, contracted by Arcadis in June 2018, and provided by Network Rail. Mott MacDonald accept no responsibility for the correctness of this information. Additional survey information provided by Inorail, contracted by BGCL and referenced in this drawing. Coordinates given in this drawing correspond with the grid used in these surveys.
5. As built information based on Red Line Drawings received from BGCL on 15/04/2020. MML has no liability for verifying the accuracy of the as built information. The details on this drawings has been informed as no change from the AFC version.

Z01

Key:

- Existing elements
- Proposed elements
- Proposed elements forming part of another disciplines submission
- Modified elements

HAZARD WARNINGS
For full details refer to
131177-624-0000-00-LMS-W-100001

CIV-010 Track faults caused by undermining track support zone

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)

800001	General Arrangement
800002	General Arrangement Sections and Front Wall Detail
800003	Transition Details
800004	Setting Out Details
800005	Foundation Setting Out
800006	Details

M&E drawings list (beginning with 131177-624-TTA2-00-DDR-E-)

000001	Proposed Lighting General Arrangement
000002	Proposed Electrical Schematic

Network Rail Standard Drawings list (beginning with NR-CIV-SD-)

3010	Traditional Front Wall Platform - General Notes Sheet 1
3011	Traditional Front Wall Platform - General Notes Sheet 2
3012	Traditional Front Wall Platform - Typical Cross Section Sheet 1
3013	Traditional Front Wall Platform - Typical Cross Section Sheet 2
3014	Lighting and Turning Chamber Details
3017	Construction Sequence
3018	Plan and Elevation on Platform End Steps Sheet 1
3019	Plan and Elevation on Platform End Steps Sheet 2
231	Slope Regrade Details

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P03	09/07/19	AFC Issue	MH	SD	BS
C01	24/04/20	AFC Issue	MH	SD	BS
P04	01/05/20	As-built	PW	TL	TL
Z01	09/10/20	As-built	PW	TL	TL

Status: As Built
Suitability: AB

NetworkRail

Authorised	B.Standring	Signed: Electronically Signed	Date: 09/10/20

Contractor(s): Buckingham Group Contracting Ltd

Location: REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)

Type: CAD Drawing	Sub-type:
Role: Civil Engineer	Sub-Role: Structures and Buildings
Zone: None Specific	
Phasing: As Built	Grip Stage: 6

Project: Northern Programmes Enhancements

Contract No.: 131177

Contract Title: Northern Train Lengthening

Drawing Title:
Ryder Brow
Platform Extensions
Foundation Setting Out

Designed	P Wieclaw	Signed: Electronically Signed	Date: 01/05/20
Drawn	P.Wieclaw	Signed: Electronically Signed	Date: 01/05/20
Checked	T.Lightfoot	Signed: Electronically Signed	Date: 01/05/20
Approved	T.Lightfoot	Signed: Electronically Signed	Date: 01/05/20

Scale(s): As Shown
ELR & Mileage: TTA2 45m 0ch
Alternative Reference:
Sheet: of
Drawing Number: ENH_131177-624-TTA2-00-DDR-C-800005
Revision: Z01

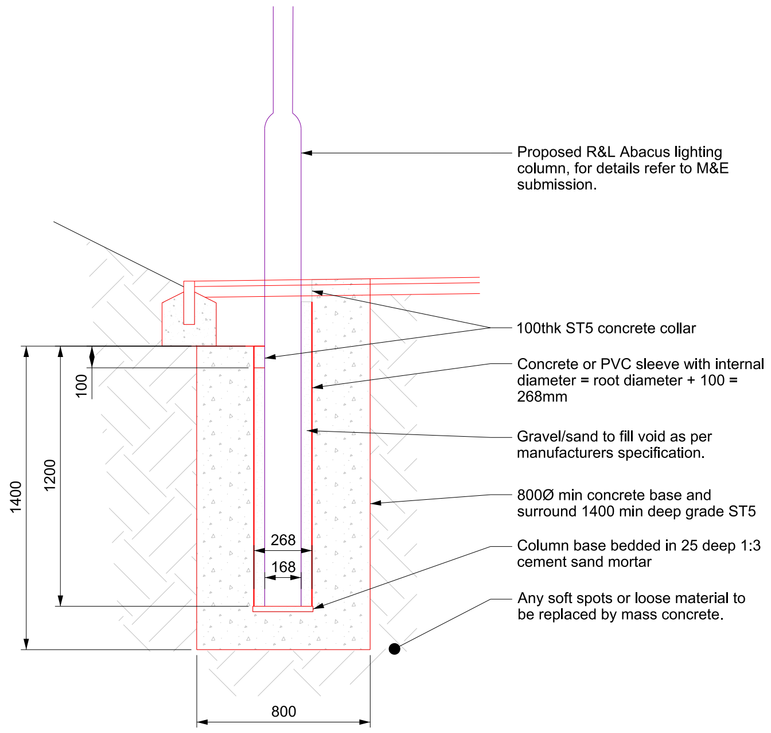
0 0.4 0.8 1.2 1.6 2.0m
SCALE 1:20

0 1 2 3 4 5m
SCALE 1:50

Sheet Size A1 594 x 841

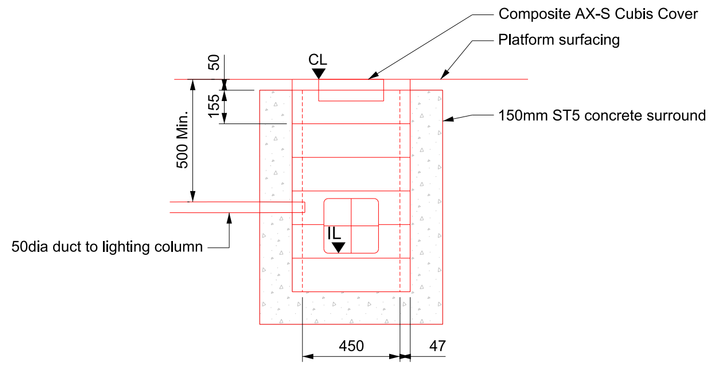
Published
Published
Published
Published
Published

Drawing Number
ENH_131177-624-TTA2-00-DDR-C-800006 Z01



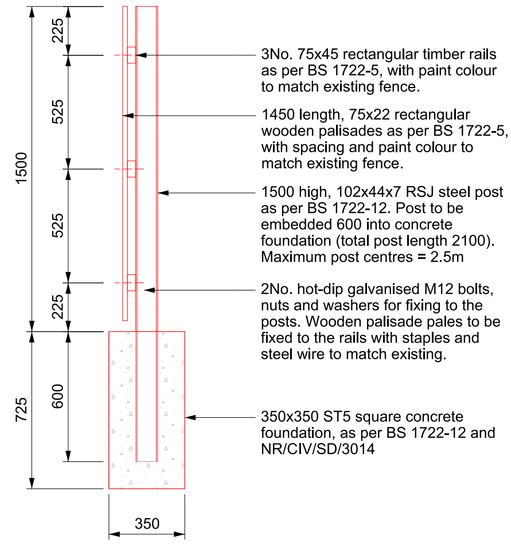
3 / 800002 Lighting column foundation detail

1:20
Fencing and drainage details omitted for clarity



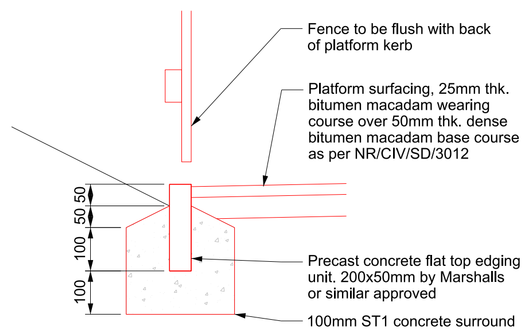
4 / 800002 450 x 450 chamber detail

1:20



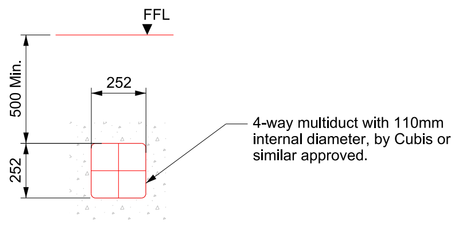
5 / 800002 Platform fence detail

1:20



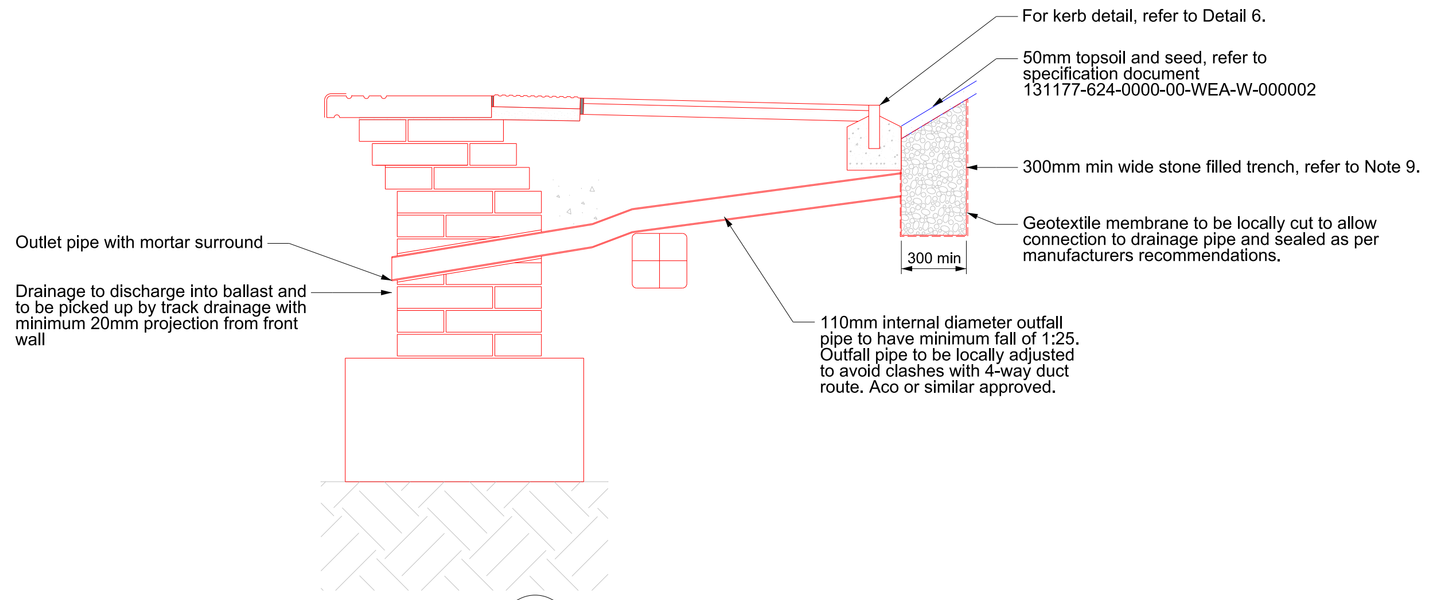
6 / 800002 Back of platform kerb

1:10
Drainage details omitted for clarity



7 / 800002 Duct detail

1:20



7 / 800002 Drainage detail

1:20

Legend/Notes

1. All measurements in millimetres unless noted otherwise.
2. All levels in metres unless noted otherwise.
3. Do not scale from this drawing.
4. For setting out details, refer to drawing 131177-624-TTA2-00-DDR-C-800004 and 800005.
5. Mortar designation BS 5628 (1:4 cement:sand), accelerators not to be used, to be non shrink.
6. Platform surfacing to consist of 25mm bitumen macadam wearing course over 50mm bitumen macadam base course as per NR/CIV/SD/3012.
7. Lighting column foundations based upon design guidance given for the Abacus 8m raise and lower root mounted column, as per the F001 submission and in accordance with NR/CIV/SD/3014.
8. All access chambers to be MODULA Stakkabox by Cubis or similar approved.
9. Drainage trench to be filled with single sized 20mm stones and wrapped in geotextile membrane. Maximum depth to be 500mm.
10. As built information based on Red Line Drawings received from BGCL on 15/04/2020. MML has no liability for verifying the accuracy of the as built information. The details on this drawings has been informed as no change from the AFC version.

Z01

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)	
800001	General Arrangement
800002	General Arrangement Sections and Front Wall Detail
800003	Transition Details
800004	Setting Out Details
800005	Foundation Setting Out
800006	Details

M&E drawings list (beginning with 131177-624-TTA2-00-DDR-E-)	
000001	Proposed Lighting General Arrangement
000002	Proposed Electrical Schematic

Network Rail Standard Drawings list (beginning with NR-CIV-SD-)	
3010	Traditional Front Wall Platform - General Notes Sheet 1
3011	Traditional Front Wall Platform - General Notes Sheet 2
3012	Traditional Front Wall Platform - Typical Cross Section Sheet 1
3013	Traditional Front Wall Platform - Typical Cross Section Sheet 2
3014	Lighting and Turning Chamber Details
3017	Construction Sequence
3018	Plan and Elevation on Platform End Steps Sheet 1
3019	Plan and Elevation on Platform End Steps Sheet 2
231	Slope Regrade Details

Key:

- Existing elements
- Proposed elements
- Proposed elements forming part of another disciplines submission
- Modified elements
- Removed elements

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P01	09/07/19	AFC Issue	MH	SD	BS
C01	27/04/20	AFC Issue	MH	SD	BS
P02	01/05/20	As-built	PW	TL	TL
Z01	09/10/20	As-built	PW	TL	TL

Status: As Built
Suitability: AB

Authorised: B.Standring
Signed:
Date: 09/10/20

Contractor(s): Buckingham Group Contracting Ltd

Location: REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)

Type: CAD Drawing
Sub-type: Detail
Role: Civil Engineer
Sub-Role: Structures and Buildings
Zone: None Specific
Phasing: As Built
Grip Stage: 6

Project: Northern Programmes Enhancements

Contract No.: 131177

Contract Title: Northern Train Lengthening

Drawing Title: Ryder Brow Station
Proposed Extensions
Details

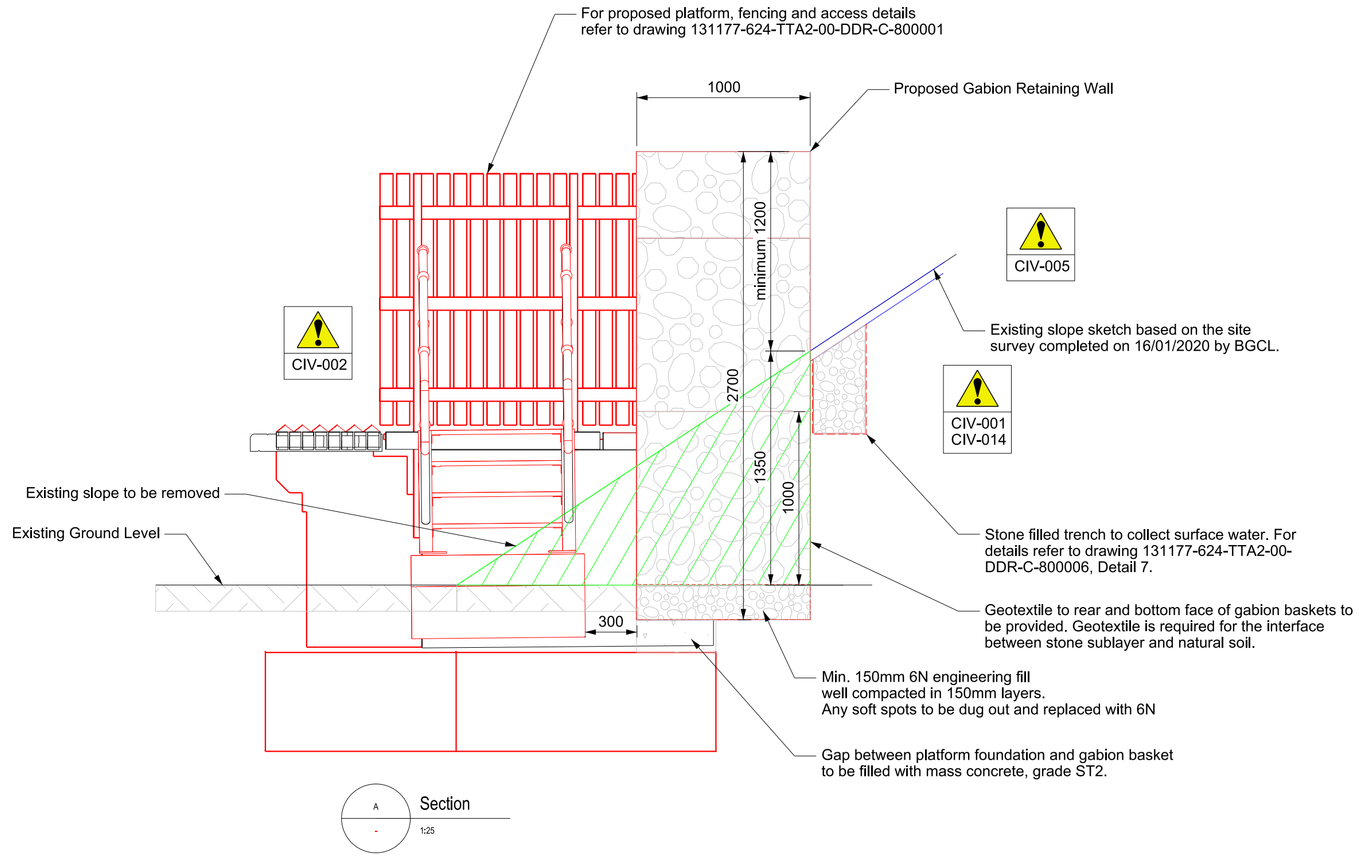
Designed	P Wieclaw	Signed	Date 01/05/20
Drawn	P.Wieclaw	Signed	Date 01/05/20
Checked	T.Lightfoot	Signed	Date 01/05/20
Approved	T.Lightfoot	Signed	Date 01/05/20

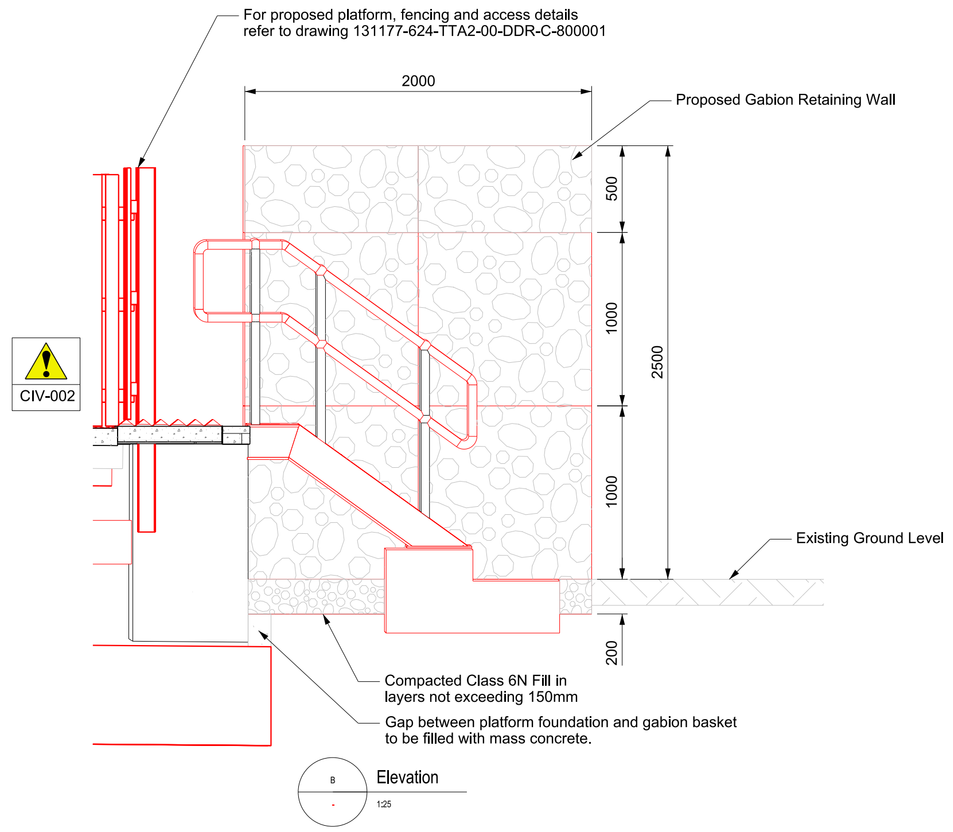
Scale(s): As Shown
ELR & Mileage: 42.1703 to 46.0526
Alternative Reference:
Sheet: of
Drawing Number: ENH_131177-624-TTA2-00-DDR-C-800006
Revision: Z01

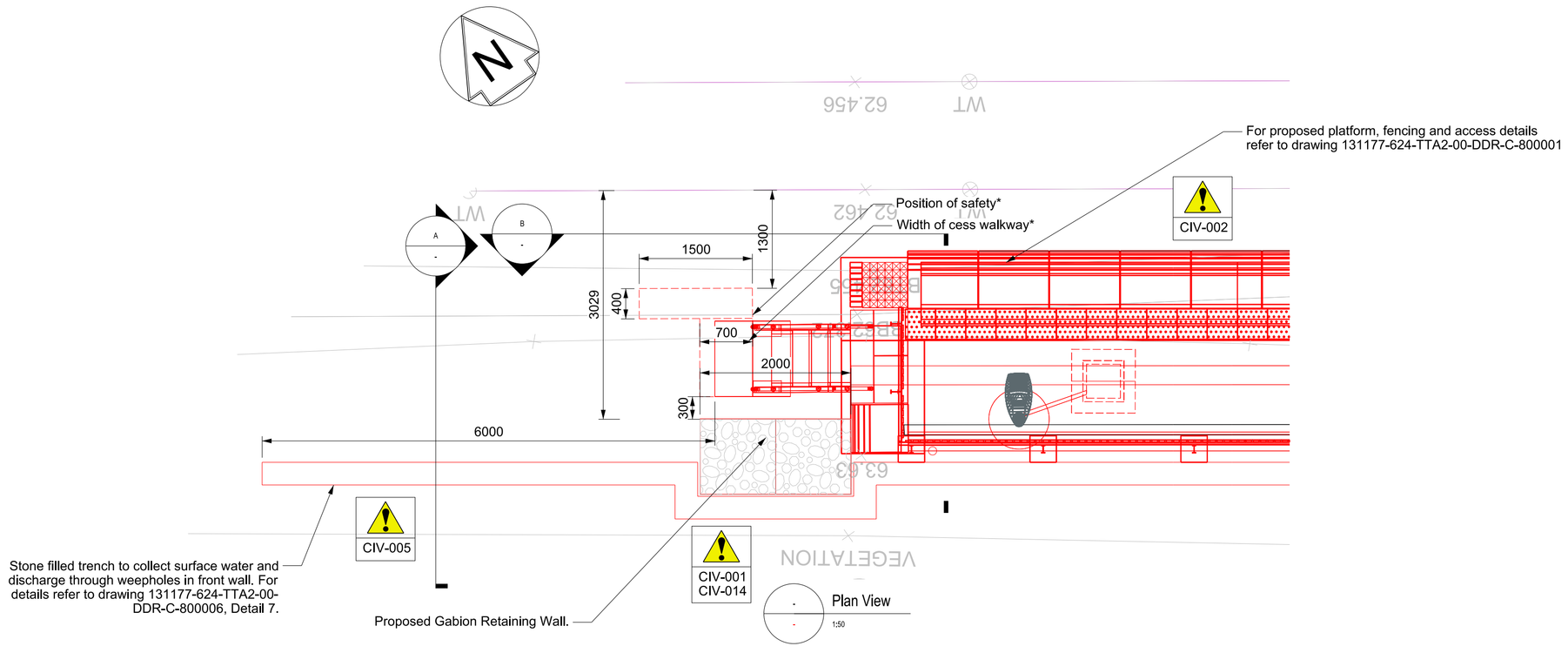
Sheet Size A1 594 x 841

Published
Published
Published
Published
Published

Drawing Number
ENH_131177-624-TTA2-00-DDR-C-800009 Z01







* Note: Indicative to show compliance with NR/SP/OHS/069

Legend/Notes

1. All measurements in millimetres unless noted otherwise.
2. All levels in metres unless noted otherwise.
3. Do not scale from this drawing.
4. Mortar designation BS5628 (1:4 cement:sand), accelerators not to be used, to be non shrink.
5. Drainage trench to be filled with single sized 20mm stones and wrapped in geotextile membrane. Maximum depth to be 500mm.
6. Existing slope sketch is based on the site survey completed on 16/01/2020 by BGCL.
7. Gabion fill material to be Class 6G Graded between 100 and 200mm.
8. All Gabion to be assembled, filled and joined in accordance with manufactures instructions.
9. Gabion basket to be constructed from galvanised rigid welded wire mesh. Mesh thickness 4mm. Mesh size 75x75mm.
10. The front face of gabions to be hand packed to create dry stone wall appearance. Gabions shall be constructed to have bulge or depression not greater than 1 in a 100 over any vertical or horizontal dimension of an individial basket.
11. Geotextile filter to make direct contact with the slope surface/behind the gabion and to be installed in accordance with manufacturer's instruction.
12. Gabion basket specification and installation guidance refer to NR/CIV/SD/201.
13. This drawing is based on topographical survey ENH_131177-25067-TTA2-00-DM3-G-076300, undertaken by PBH Surveys, contracted by Arcadis. Mott MacDonald accept no liability for the correctness of this information.
14. No Red Line Drawing received. It has been confirmed that no change from AFC if no Red Line Drawing produced.

Z01

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)	
800001	General Arrangement
800002	General Arrangement Sections and Front Wall Detail
800003	Transition Details
800004	Setting Out Details
800005	Foundation Setting Out
800006	Details
800009	Embankment Retention at End Steps Platform 1
800010	Embankment Retention at End Steps Platform 2

Network Rail Standard Drawings list (beginning with NR-CIV-SD-)	
3010	Traditional Front Wall Platform - General Notes Sheet 1
3011	Traditional Front Wall Platform - General Notes Sheet 2
3018	Plan and Elevation on Platform End Steps Sheet 1
3019	Plan and Elevation on Platform End Steps Sheet 2
231	Slope Regrade Details
201	Typical Gabion Retaining Walls

Key:

- Existing elements
- Proposed elements
- Proposed elements forming part of another disciplines submission
- Modified elements
- Removed elements

HAZARD WARNINGS
For full details refer to 131177-624-0000-00-LMS-W-100001

CIV-001	Instability and failure of cuting slope
CIV-002	Fall from platform height
CIV-003	Cable tray and trough
CIV-005	Unknown hazards / constraints in dense vegetation
CIV-014	Slope stability during excavation for platform installation

0 0.5 1.0 1.5 2.0 2.5m
SCALE 1:25

0 1 2 3 4 5m
SCALE 1:50

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P02	07/02/20	AFC Issue	DB	SD	BS
C02	24/04/20	AFC Issue	DB	SD	BS
P03	01/05/20	As-built	PW	TL	TL
Z01	09/10/20	As-built	PW	TL	TL

Status: As Built
Suitability: AB

NetworkRail

Authorised	B.Standring	Signed Electronically Signed	Date 09/10/20

Contractor(s): Buckingham Group Contracting Ltd

Location: REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)

Type	CAD Drawing	Sub-type	
Role	Civil Engineer	Sub-Role	Structures and Buildings
Zone	None Specific		
Phasing	As Built	Grip Stage	6

Project: Northern Programmes Enhancements

Contract No.: 131177

Contract Title: Northern Train Lengthening

Drawing Title: Ryder Brow Station Embankment Retention at End Steps Platform 1

Designed	P.Wieclaw	Signed Electronically Signed	Date 01/05/20
Drawn	P.Wieclaw	Signed Electronically Signed	Date 01/05/20
Checked	T.Lightfoot	Signed Electronically Signed	Date 01/05/20
Approved	T.Lightfoot	Signed Electronically Signed	Date 01/05/20

Scale(s)	As Shown	ELR & Mileage	45.0082 to 45.0082
Alternative Reference		Sheet	of
Drawing Number	ENH_131177-624-TTA2-00-DDR-C-800009	Revision	Z01

Sheet Size A1 594 x 841

Published Published Published Published Published

Drawing Number
ENH_131177-624-TTA2-00-DDR-E-000004 Z01

HAZARD SUMMARY TABLE

SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS	LIFE SAVING RULES

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

THE FOLLOWING NOTES HIGHLIGHT SIGNIFICANT RESIDUAL HAZARD IDENTIFIED BY THE DESIGNER. TYPICAL HAZARDS THAT SHOULD BE IDENTIFIED BY A COMPETENT CONTRACTOR ARE NOT INCLUDED.THE CONTRACTOR SHALL CARRY OUT THE WORKS USING AN APPROVED SAFE SYSTEM OF WORK

SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM

DRUGS / ALCOHOL | TRAINING & COMPETENCY | NO MOBILE PHONES | CORRECT EQUIPMENT | OBEY DRIVING RULES

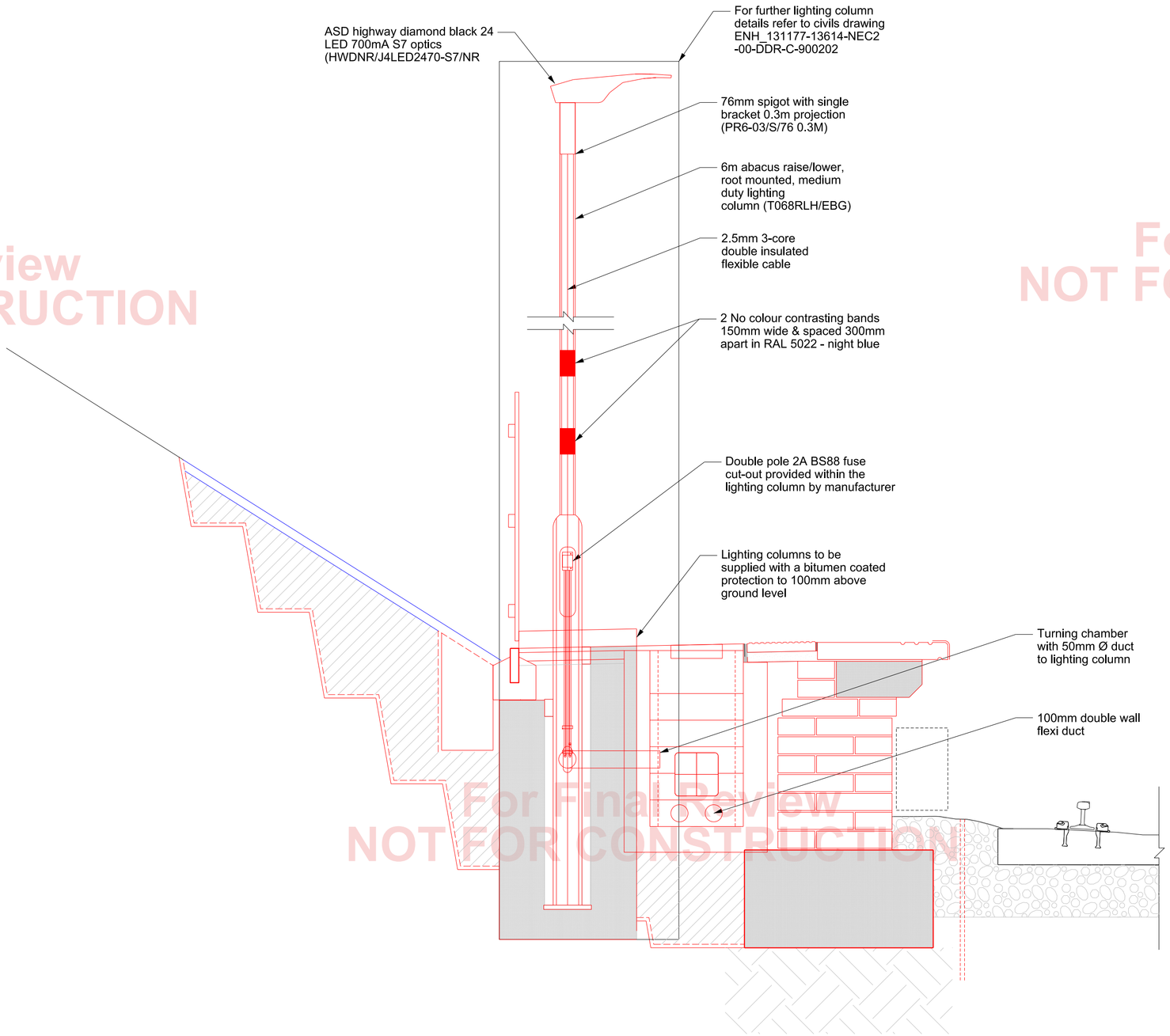
EARTHING | EXCLUSION ZONE | PLANS AND PERMITS | SAFETY HARNESS AT HEIGHT | ISOLATION

B!	UNIDENTIFIED BURIED SERVICES	
C!	WORKING ON ELECTRICAL EQUIPMENT	
E!	MANUAL HANDLING - LOWERING OF LIGHTING COLUMNS	

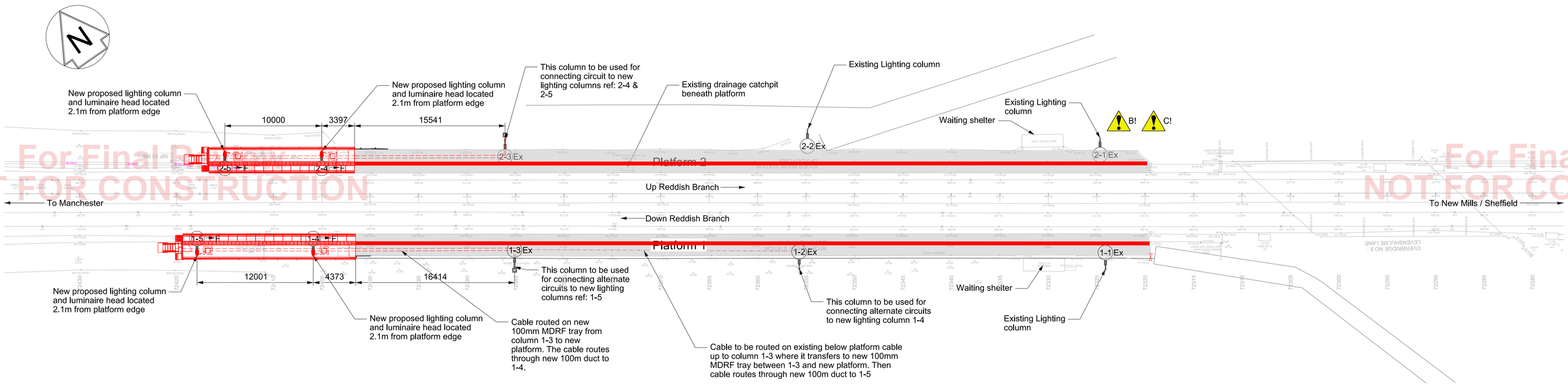
Distance between existing columns is 31m
Distance between the new columns is 14m
This is to acheive the correct lux levels and uniformity

LV Cable Summary

Cable No.	Cable Type	From	To
001	10mm²x 3-core PVC-SWA-LSZH CU, 3rd core as CPC	1-2	1-4
002	10mm²x 3-core PVC-SWA-LSZH CU, 3rd core as CPC	1-3	1-5
002	10mm²x 3-core PVC-SWA-LSZH CU, 3rd core as CPC	2-3	2-4
002	10mm²x 3-core PVC-SWA-LSZH CU, 3rd core as CPC	2-4	2-5



Lighting Column Cross Section
1:20



General Arrangement Plan
1:250

Legend/Notes

1. All measurements in millimetres unless noted otherwise.
2. All levels in metres unless noted otherwise.
3. Do not scale from this drawing.
4. It is assumed the station has 2 lighting circuits per platform.
5. This drawing is to be read in conjunction with the drawing listed below: (ENH_131177-624-TTA2-00-DDR-E-000003) Proposed Electrical Schematic
6. Location of DNO is at street level on the Manchester bound Platform 1. On rough ground via access gate at top of ramped walkway.
7. Refer to notes on drawing for cable routes.
8. New tray maybe substituted with trough if preferred

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)

800001	General Arrangement
800002	General Arrangement Sections and Front Wall Detail

M&E drawings list (beginning with 131177-624-TTA2-00-DDR-E-)

000003	Proposed Electrical Schematic
000004	Proposed Lighting General Arrangement

Key:

F — ASD Highway Diamond, Black, 4000K 4LED, 700mA luminaire with FLT Lens mounted on a 6m Medium Duty Column
Ex — Existing lumainaire
Column fall direction (away from fence)
#-# — Lighting column ID
New cable pit connected to existing platform lighting ducting c/w 2x100mm ducts between new pits as shown

0 0.4 0.8 1.2 1.6 2m
SCALE 1:20
0 5 10 15 20 25m
SCALE 1:250

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P06	15/08/19	AFC Issue	CC	AH	BS
C02	02/06/20	AFC Issue	CC	AH	BS
P07	04/06/20	For As-Builts	CC	AH	TL
Z01	04/06/20	For As-Builts	CC	AH	TL

Status: Fit for Internal Review & Comment
Suitability: S3

Authorised | Signed | Date

Contractor(s): Buckingham Group Contracting Ltd

Location: REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)
Type: 2D CAD Model
Sub-type:
Role: Electrical Engineer
Sub-Role: Lighting
Zone: None Specific
Phasing:
Grip Stage: 0
Project: Northern Programmes Enhancements
Contract No.: 131177
Contract Title: Northern Train Lengthening
Drawing Title: Ryder Brow Station Proposed Lighting General Arrangement

Designed	D. Carline	Signed	Date 02/06/20
Drawn	C.CSykes	Signed Electronically Signed	Date 02/06/20
Checked	A.Hilton	Signed Electronically Signed	Date 04/06/20
Approved	T.Lightfoot	Signed Electronically Signed	Date 04/06/20

Scale(s): As Shown
ELR & Mileage: 42.1703 to 46.0526
Alternative Reference:
Sheet: of
Drawing Number: ENH_131177-624-TTA2-00-DDR-E-000004
Revision: Z01

Sheet Size A1 594 x 841

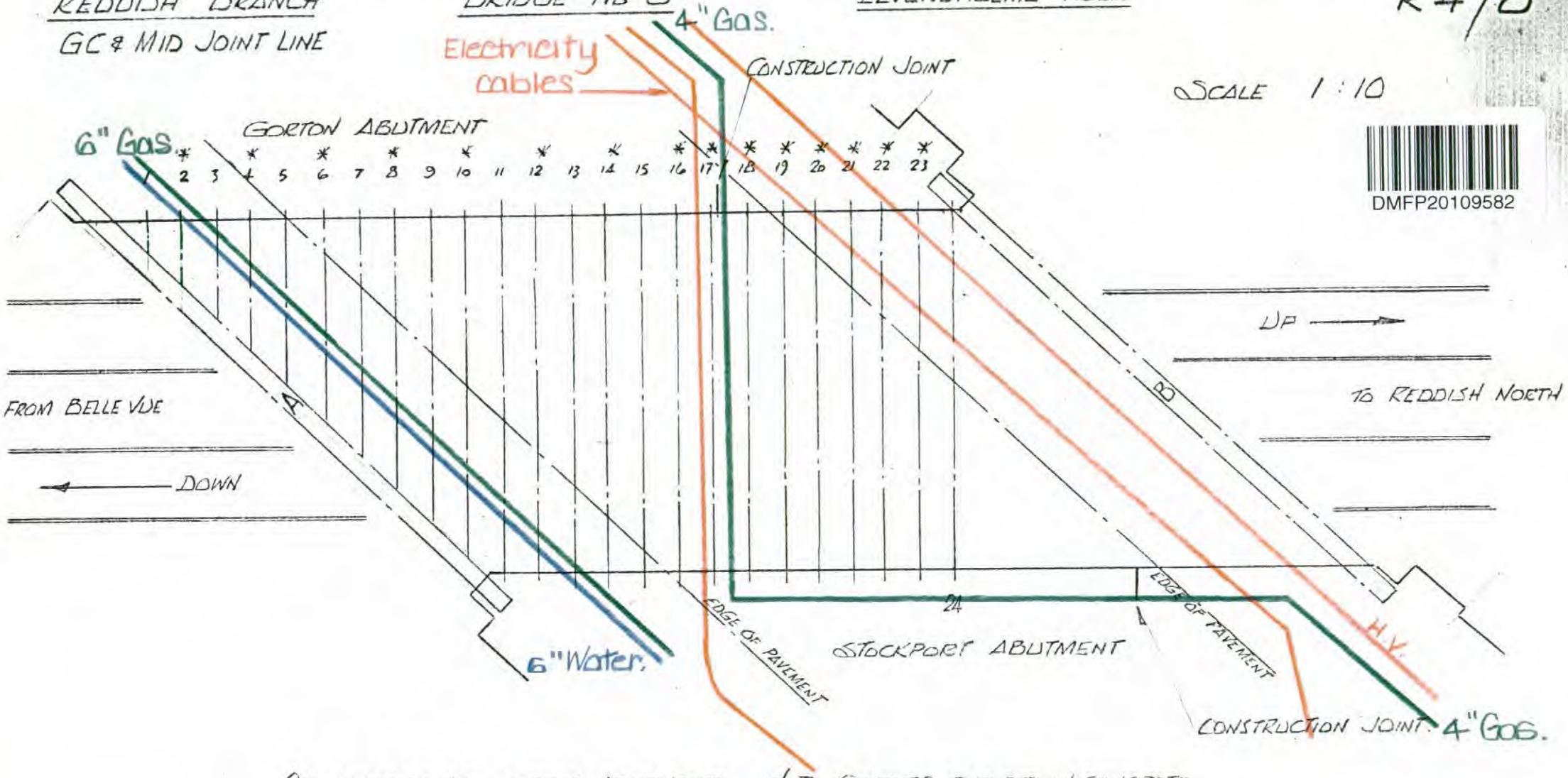
For Final Review NOT FOR CONSTRUCTION
PDF Created: 04-JUN-2020 - 15:23 - Valid only at time of creation

REDDISH BRANCH
GC & MID JOINT LINE

BRIDGE No 8

LEVENSHULME ROAD

R4/8



DMFP20109582

CONSTRUCTION: BRICK ABUTMENTS W.I. GIRDERS ENCASED IN CONCRETE
WIDENED AND CONCRETED c.1930

* DENOTES ROLLED SECTION (ie RSJ or BSB)

REDDISH BRANCH
GC & MID JOINT LINE

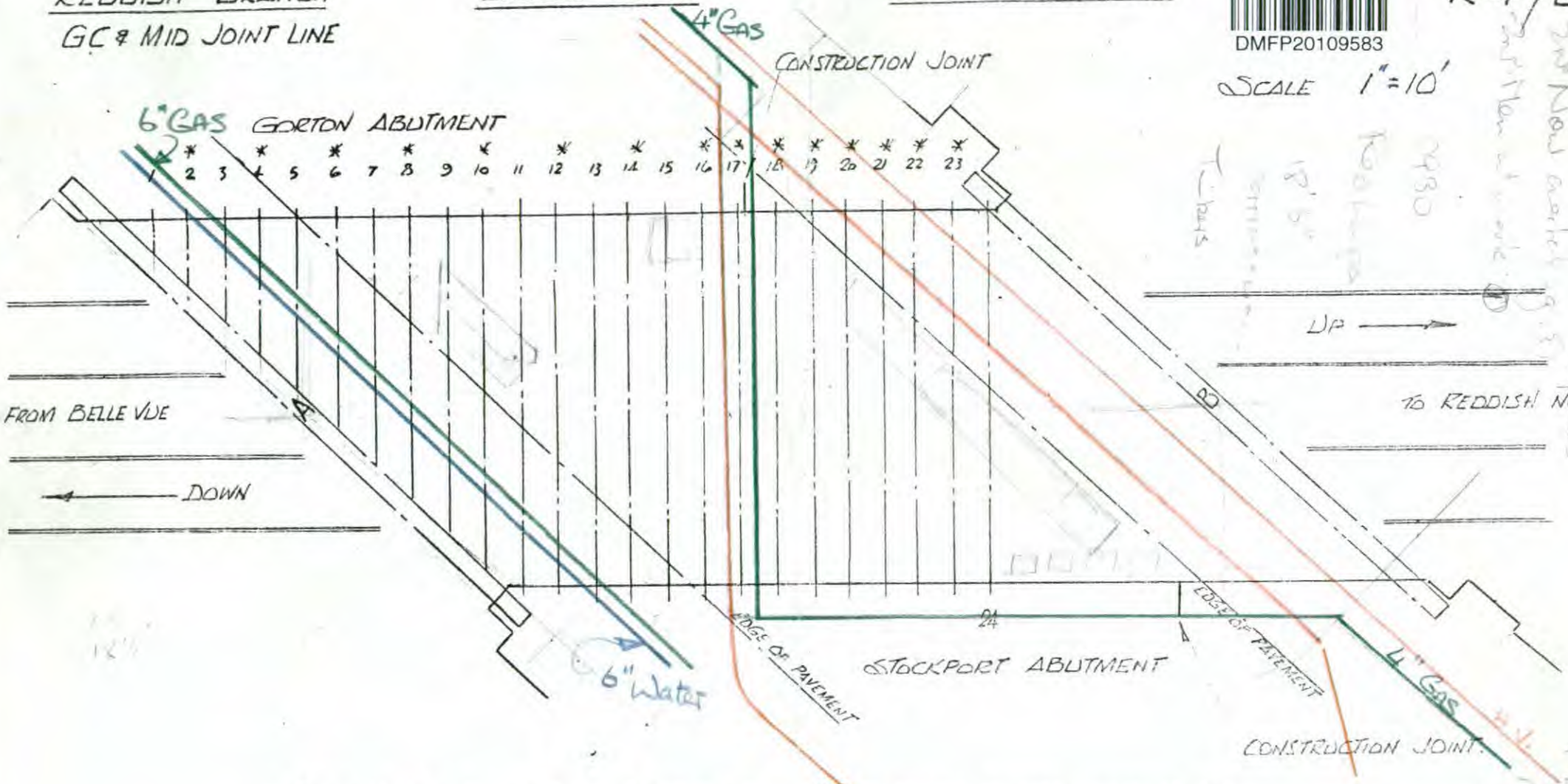
BRIDGE No 8

LEVENSHULME ROAD

DMFP20109583

R4/8

SCALE 1" = 10'



CONSTRUCTION: BRICK ABUTMENTS W.I. GIRDERS ENCASED IN CONCRETE
WIDENED AND CONCRETED c.1930

* DENOTES ROLLED SECTION (ie RSJ or BSB)

OMFP20706500

RYDER BROW ROAD

LEVENSHULME ROAD

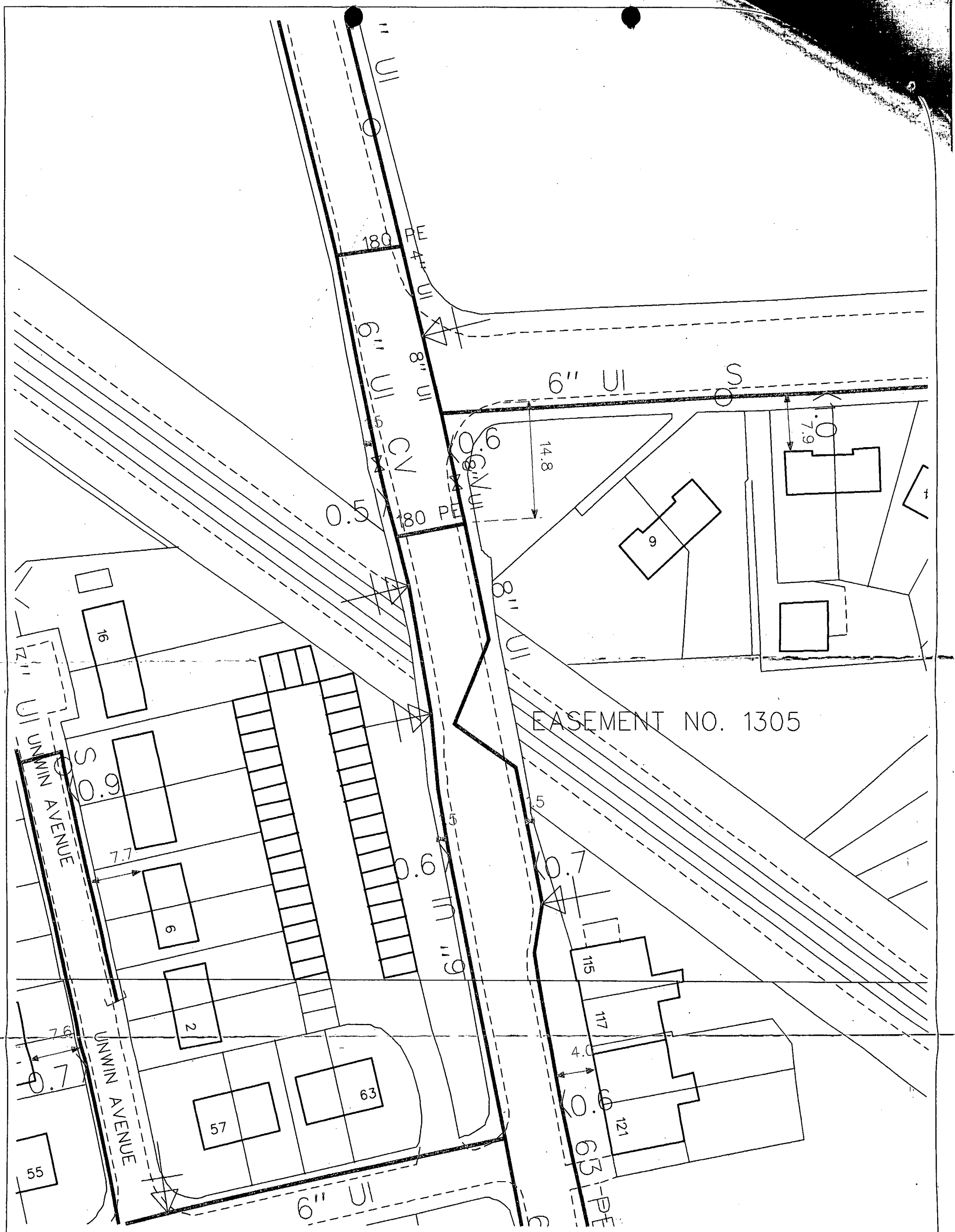
RYDER BROW S.S

PLEASE NOTE

The positions and depths of the Board's electric lines apparatus works or other property indicated on this drawing are approximate only and no claim made or accepted shall be entertained for damage caused thereto by reason of the positions and/or depths of such electric lines apparatus works or other property being different from those indicated on this drawing.

THE NORTH WESTERN ELECTRICITY BOARD, CHEETWOOD ROAD, MANCHESTER, 8.

REPRODUCED FROM THE ORDNANCE SURVEY MAP WITH THE PERMISSION OF THE CONTROLLER OF H.M. STATIONERY OFFICE.

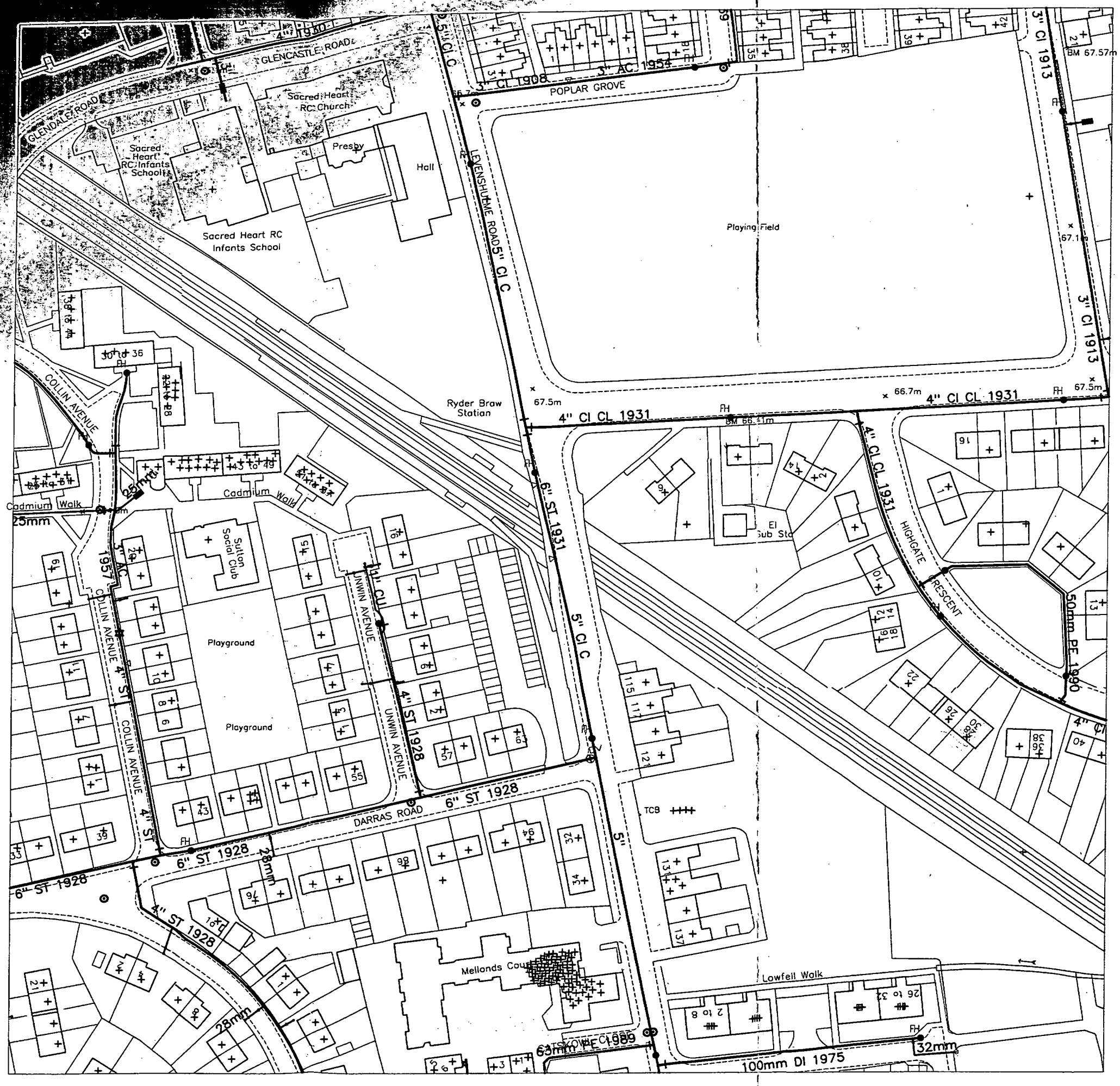


SCALE: 1:500	N	NOTE: The information on this plan is given without obligation or warranty. The accuracy is not guaranteed. BG plc, its agents and servants accept no liability for any error or omission. Service pipes are not shown but may be present. The position of mains and services must be fixed on-site before any mechanical plant is used. This plan shows Transco's pipes but not non Transco pipes. Contact the owners for details of such pipes.	INDEX:	DIGITAL MAPPING
DRAWN BY: DRS01			LP MAINS	
DATE: 20-MAR-1999			MP MAINS	
NRSWA RESPONSE	This plan is reproduced from or based on the OS survey map by BG plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.		IP MAINS	
MAP NOS:			RIP MAINS	Transco
SJ8895NE SJ8895SE			RHP MAINS	
			NHP MAINS	
			MAINS TO BE ABANDONED	DISTRICT: Specimen District

DMFP20109589

LEVENSHULME ROAD BRIDGE 10

DMFP20109590



Trunk Main
Distribution Main
Non-potable Main
Aqueduct
Communication Pipe
Private Pipe
Abandoned Pipe
NWW Cable
Main Crossing
Air Valve
Valve (Clockwise)
Valve (anti-clockwise)
Pressure Reducing Valve
Closed Valve
NWW Hydrant
End Cap
Change of Characteristic
Flow Meter (Insertion)
Sampling Point
Chlorination Point
Logger Box
Route Marker
Pipe Depth

Regulatory Monitoring Pt
Non-Regulatory Monitoring Pt
Abstraction/Inlet Point
Reflux Valve
Pressure Sustaining Valve
Fire Hydrant
Shared Hydrant
Pump
Flow Meter
Strainer
Hatch Box
De-Chlorination Point
Anode
Stop Tap
Access Point

Property Types

Dialysis Unit
Pipe Bridge
NWW Site
Bulk Supply Point
Water Treatment Works
Confined Space
Valve House
Supply Reservoir

Telemetry Station
Pipe Tunnel
Water Tower
Water Pumping Station
Bore Hole
Pump House
Private Treatment Works
Service Reservoir

Material Types

Asbestos Cement	AC	Others	OT
Cast Iron	CI	Lead	PB
Copper	CU	uPVC	PV
Concrete	CO	Spun Iron	SI
Ductile Iron	DI	Steel	ST
Galvanised Iron	GI	Unknown	UN
Grey Iron	GR	Polyethelene	PE

Lining Types

Cement	CL	Epoxy Resin	ER
Tar or Bitumen	TB		

Insertion Types

Die Drawn	DD	Pipeline	PI
Directional Drilling	DR	Slip Lined	SL
Moling	MO		

Scale: 1250
Date Plotted: 16-Apr-1999

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North West Water

BOOK E 13 | SHEET 42

RYDER BROW

ROAD

CLEVEDON ROAD

PLEASE NOTE

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THE NORTH WESTERN ELECTRICITY BOARD, BOOTHWOOD ROAD, MANCHESTER, 9.

REPRODUCED FROM THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE.

RYDER BROW

BOOK E 13 | SHEET 46

BOOK E 13 | SHEET 48

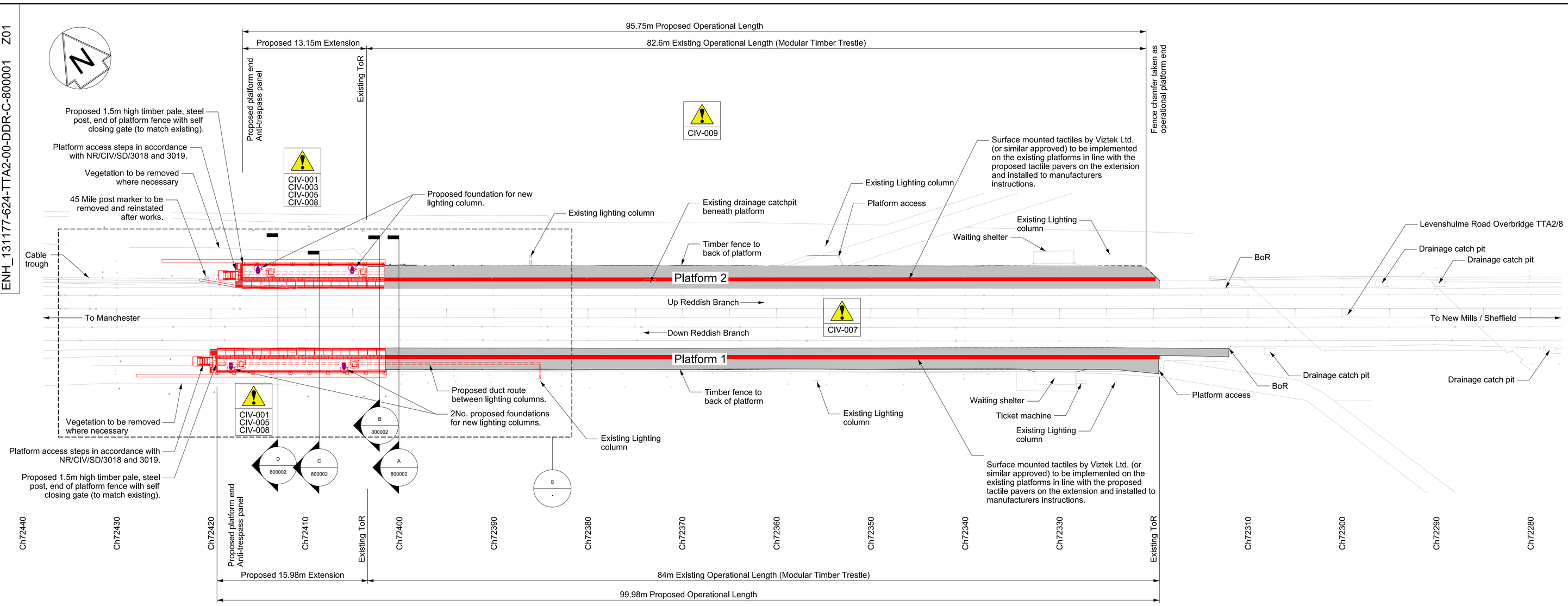
SCALE 1/1250

BOOK E 13 | SHEET 77

BOOK E 13 | SHEET 47

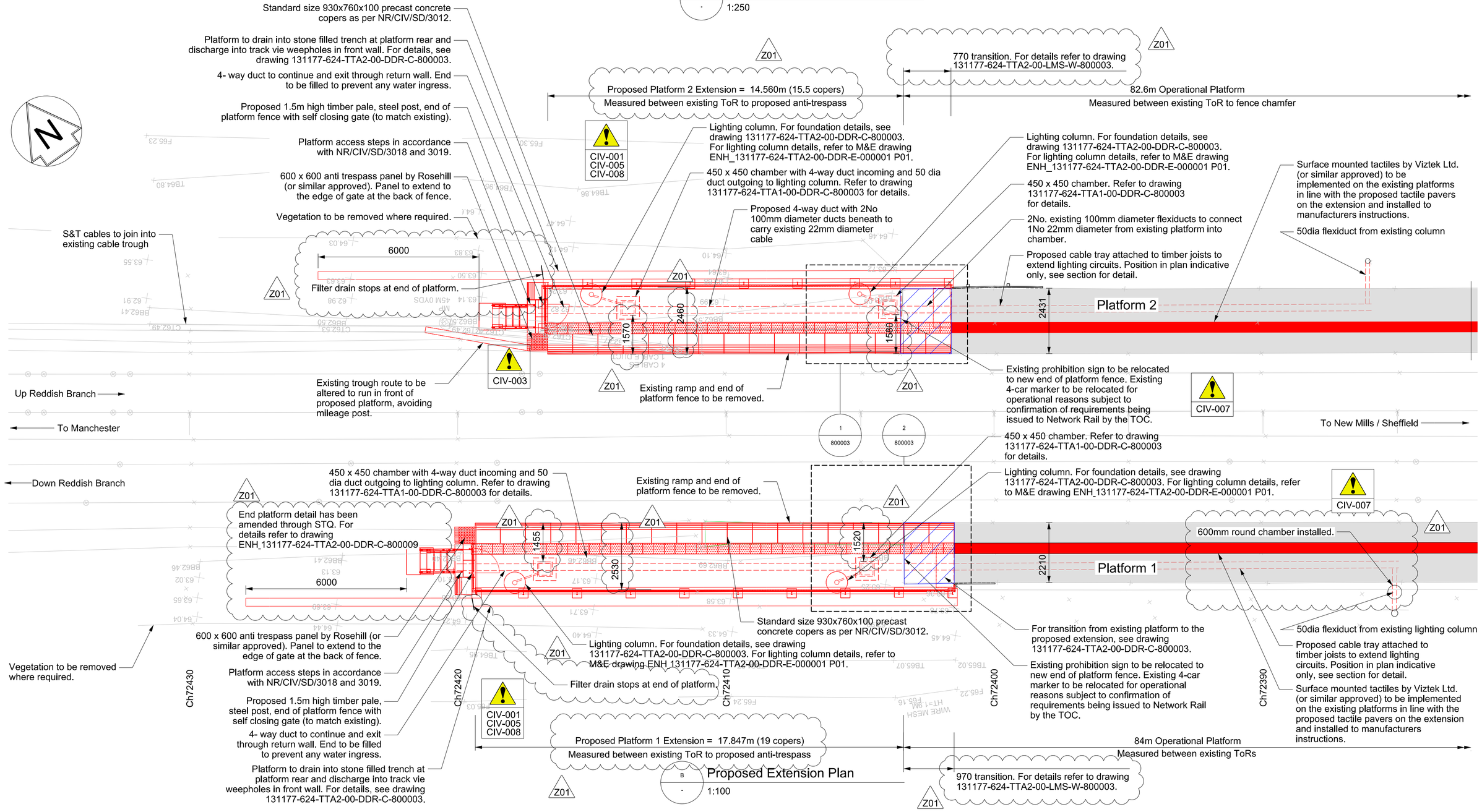
Published

Drawing Number
ENH_131177-624-TTA2-00-DDR-C-800001 Z01



Existing Plan with Extension Area

1:250



Proposed Extension Plan

1:100

Legend/Notes

1. All measurements in millimetres unless noted otherwise.
2. All levels in metres unless noted otherwise.
3. Do not scale from this drawing.
4. This drawing is based on topographical survey ENH_131177-25067-TTA2-00-DM3-G-076300, undertaken by PBH Surveys, contracted by Arcadis. Mott MacDonald accept no liability for the correctness of this information.
5. Design Verification Survey is not available for the C01 submission. Contractor to issue the DVS for a C02 revision of AFC.
6. Site inspection undertaken by BGCL on 15/05/2019 identifies existing track drainage as blocked, with broken clay pipes (Up side). All existing drainage to be cleaned out with damaged sections repaired/replaced before connecting proposed pipe.
7. As built information based on Red Line Drawings received from BGCL on 15/04/2020. MML has no liability for verifying the accuracy of the as built information.

Z01

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)

800001	General Arrangement
800002	General Arrangement Sections and Front Wall Detail
800003	Transition Details
800004	Setting Out Details
800005	Foundation Setting Out
800006	Details

M&E drawings list (beginning with 131177-624-TTA2-00-DDR-E-)

000001	Proposed Lighting General Arrangement
000002	Proposed Electrical Schematic

Network Rail Standard Drawings list (beginning with NR-CIV-SD-)

3010	Traditional Front Wall Platform - General Notes Sheet 1
3011	Traditional Front Wall Platform - General Notes Sheet 2
3012	Traditional Front Wall Platform - Typical Cross Section Sheet 1
3013	Traditional Front Wall Platform - Typical Cross Section Sheet 2
3014	Lighting and Turning Chamber Details
3017	Construction Sequence
3018	Plan and Elevation on Platform End Steps Sheet 1
3019	Plan and Elevation on Platform End Steps Sheet 2
231	Slope Regrade Details

Key:

- Existing elements
- Proposed elements
- Proposed elements forming part of another disciplines submission
- Modified elements
- Removed elements
- Existing platforms
- Tactile studs

0 2 4 6 8 10m
SCALE 1:100
0 5 10 15 20 25m
SCALE 1:250

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P05	09/07/19	AFC Issue	MH	SD	BS
C01	30/07/19	AFC Issue	MH	SD	BS
P06	01/05/20	As-built	PW	TL	TL
Z01	09/10/20	As-built	PW	TL	TL

Status: As Built
Suitability: AB

HAZARD WARNINGS
For full details refer to 131177-624-0000-00-LMS-W-100001

CIV-001	Instability and failure of cutting slope
CIV-002	Fall from platform height
CIV-003	Cable tray and trough
CIV-005	Unknown hazards / constraints in dense vegetation
CIV-007	Non-compliant recess (existing)
CIV-008	Buried services strike
CIV-009	Site security - location of station and proximity of trackside access point

NETWORK RAIL'S LIFE SAVING RULES

WORKING RESPONSIBLY
- Always be sure the required plans and permits are in place, before you start a job or go on or near the line.
- Always use equipment that is fit for its intended purpose.
- Never undertake any job unless you have been trained and assessed as competent.
- Never work or drive while under the influence of drugs or alcohol.

WORKING WITH ELECTRICITY
- Always test before applying earths or straps.
- Never assume equipment is isolated - always test before touch.

DRIVING
- Never use a hand-held or hands-free phone, or programme any other mobile device, while driving.
- Always obey the speed limit and wear a seat belt.

WORKING AT HEIGHT
- Always use a safety harness when working at height, unless other protection is in place.

WORKING WITH MOVING EQUIPMENT
- Never enter the agreed exclusion zone, unless directed to by the person in charge.

Authorised	B.Standring	Signed	Electronically Signed
		Date	09/10/20

Contractor(s): Buckingham Group Contracting Ltd

Location	REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)		
Type	CAD Drawing	Sub-type	
Role	Civil Engineer	Sub-Role	Structures and Buildings
Zone	None Specific		
Phasing	As Built	Grip Stage	6

Project: Northern Programmes Enhancements

Contract No.: 131177

Contract Title: Northern Train Lengthening

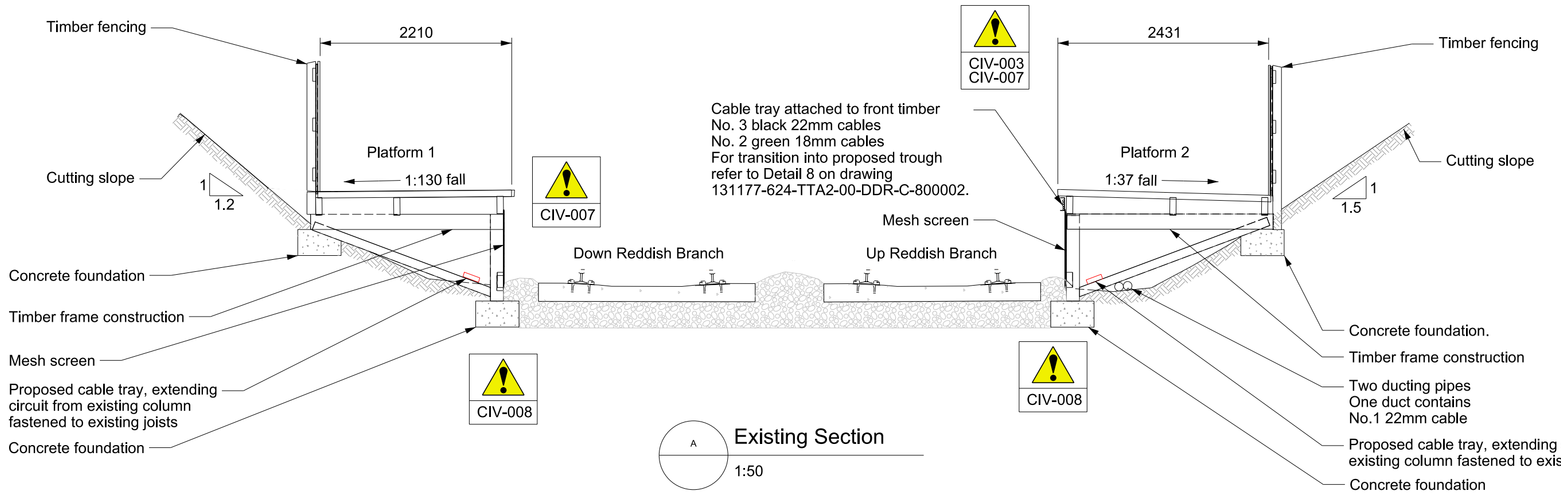
Drawing Title: Ryder Brow Station
Proposed Extensions
General Arrangement

Designed	P Wieclaw	Signed	Electronically Signed
		Date	01/05/20
Drawn	P.Wieclaw	Signed	Electronically Signed
		Date	01/05/20
Checked	T.Lightfoot	Signed	Electronically Signed
		Date	01/05/20
Approved	T.Lightfoot	Signed	Electronically Signed
		Date	01/05/20
Scale(s)	As Shown	ELR & Mileage	45.0082 to 45.0082
Alternative Reference		Sheet	1 of 1
Drawing Number	ENH_131177-624-TTA2-00-DDR-C-800001	Revision	Z01

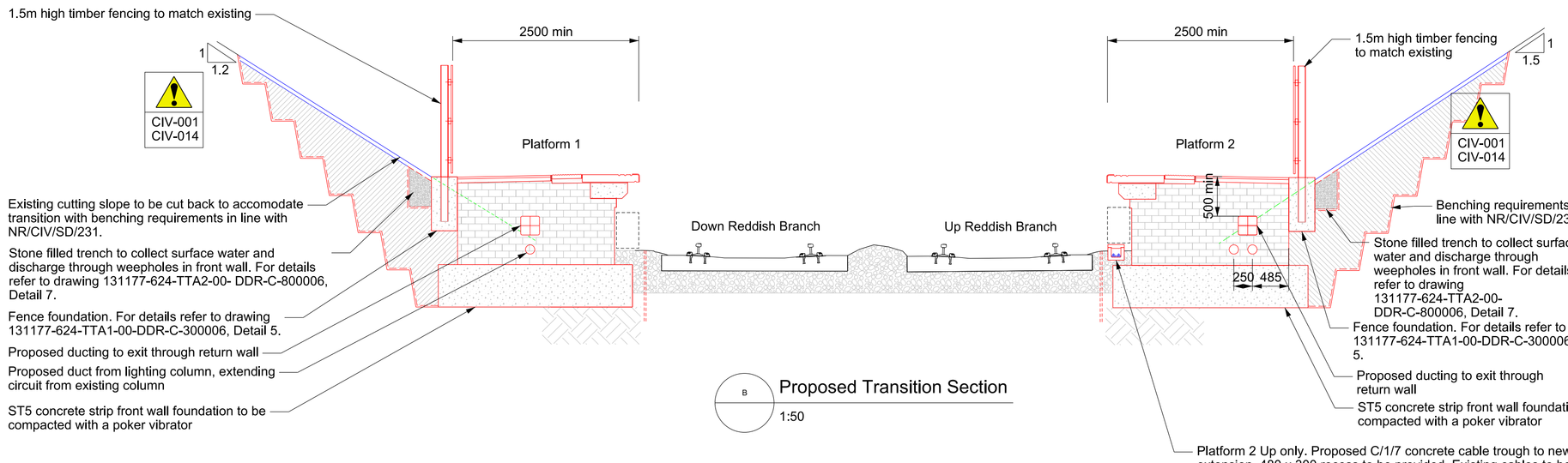
Sheet Size A1 594 x 841

Published Published Published Published

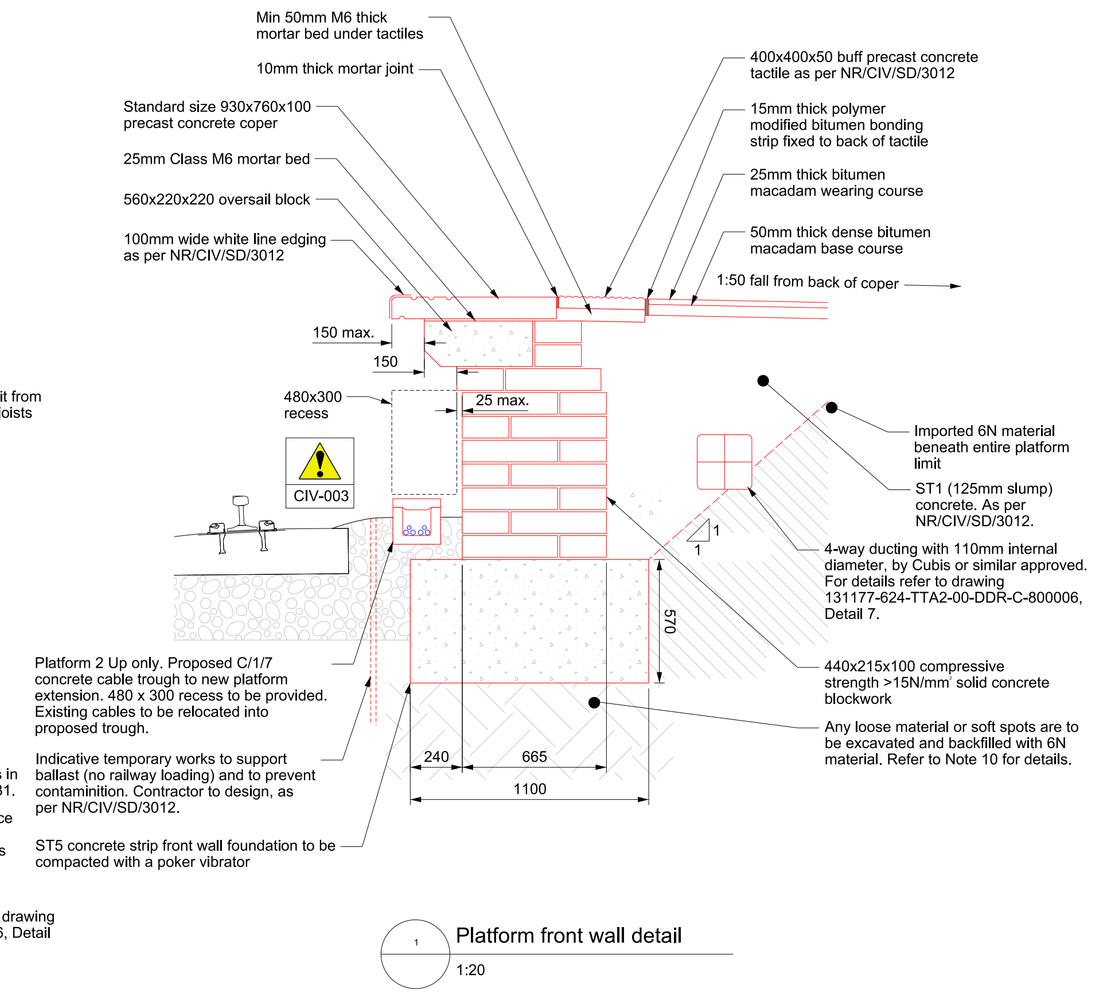
Drawing Number
ENH_131177-624-TTA2-00-DDR-C-800002 Z01



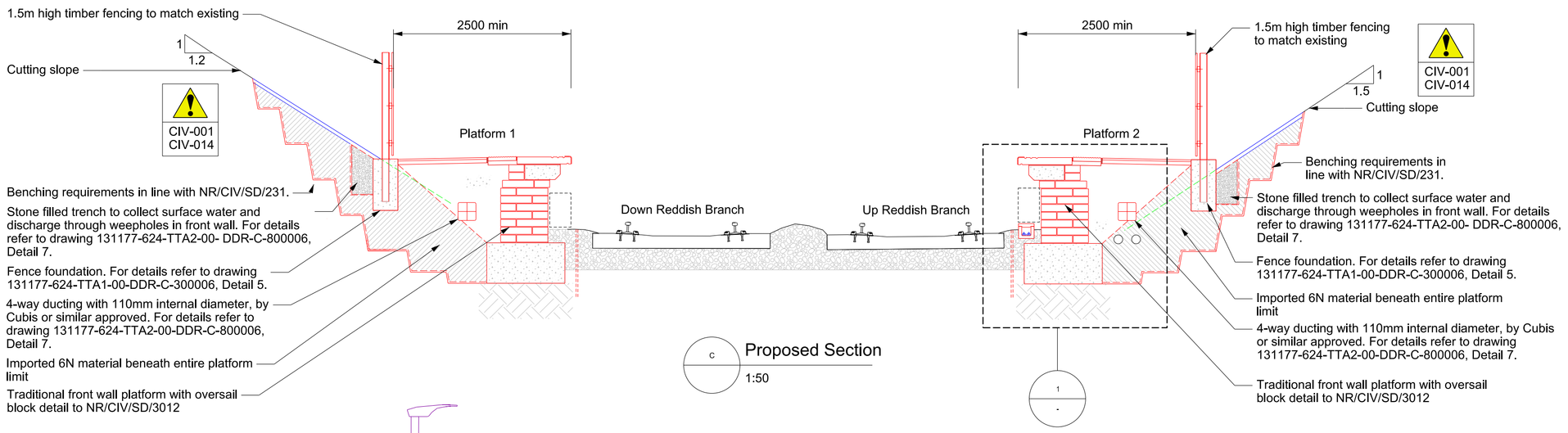
A Existing Section
1:50



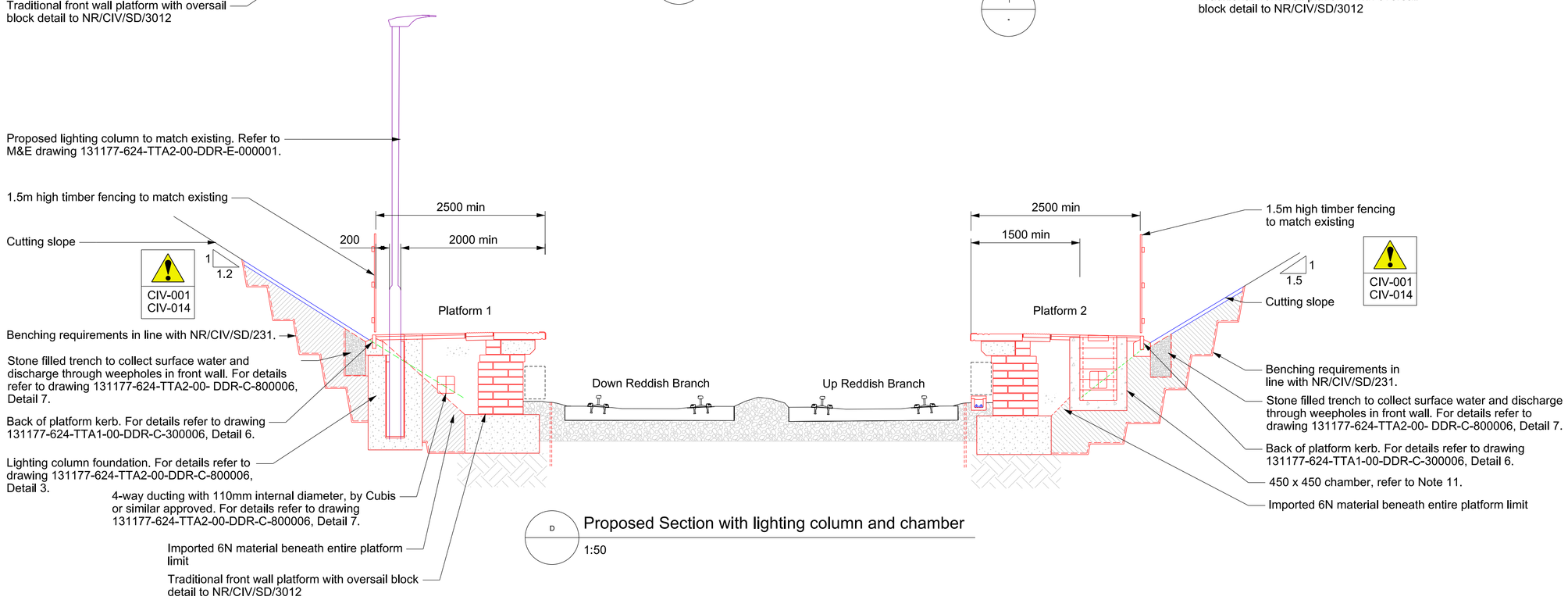
B Proposed Transition Section
1:50



1 Platform front wall detail
1:20



C Proposed Section
1:50



D Proposed Section with lighting column and chamber
1:50

Key:

	Existing elements
	Proposed elements
	Proposed elements forming part of another disciplines submission
	Modified elements
	Removed elements

HAZARD WARNINGS
For full details refer to 131177-624-0000-00-LMS-W-100001

CIV-001	Instability and failure of cuting slope
CIV-002	Fall from platform height
CIV-003	Cable tray and trough
CIV-005	Unknown hazards / constraints in dense vegetation
CIV-007	Non-compliant recess (existing)
CIV-008	Buried services strike
CIV-014	Slope stability during excavation for platform installation

0 0.4 0.8 1.2 1.6 2.0m
SCALE 1:20

0 1 2 3 4 5m
SCALE 1:50

Legend/Notes

1. All measurements in millimetres unless noted otherwise.
2. All levels in metres unless noted otherwise.
3. Do not scale from this drawing.
4. For setting out details, re8. Founding strata for platform to achieve a minimum bearing capacity of 50kN/m2. Any loose material or soft spots are to be excavated and replaced with 6N material.9. For chamber details, refer to drawing 131177-624-TTA2-00-DDR-C-800003, Detail 4.10. Network Rail standard drawings NR/CIV/SD/3018 and NR/CIV/SD/3019 are to be implemented for the front wall return for the transition to provide base for timber section. 11. All chambers to MODULA Stakkabox by Cubis or similar approved. For details refer to drawing 131177-624-TTA2-00-DDR-C-800003.12. Steel fence posts to be galvanised. Timber fence panels to be stained to match existing. fer to drawing 131177-624-TTA2-00-DDR-C-800004 and 800005.
5. 10mm movement joints at every 12 copings to be filled with non-biodegradable filler board and sealed with 20mm deep polysulphide epoxy sealant. Refer to NR/CIV/SD/3016.
6. Mortar designation BS 5628 (1:4 cement:sand), accelerators not to be used, to be non shrink.
7. Platform surfacing to consist of 25mm bitumen macadam wearing course over 50mm bitumen macadam base course as per NR/CIV/SD/3012.
8. As built information based on Red Line Drawings received from BGCL on 15/04/2020. MML has no liability for verifying the accuracy of the as built information. The details on this drawings has been informed as no change from the AFC version.

Z01

Civils drawings list (beginning with 131177-624-TTA2-00-DDR-C-)

800001	General Arrangement
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Rev	Date	Description of Revisions	Drawn	Chkd	Appr
P05	09/07/19	AFC Issue	MH	SD	BS
C01	24/04/20	AFC Issue	MH	SD	BS
P06	01/05/20	As-built	PW	TL	TL
Z01	09/10/20	As-built	PW	TL	TL

Status: As Built
Suitability: AB

NetworkRail

Authorised	B.Standring	Signed	Electronically Signed
Date	09/10/20		

Contractor(s): Buckingham Group Contracting Ltd

Location: REDDISH JN - ASHBURYS E JN (REDDISH BCH)(R4)
Type: CAD Drawing
Sub-type:
Role: Civil Engineer
Sub-Role: Structures and Buildings
Zone: None Specific
Phasing: As Built
Grip Stage: 6

Project: Northern Programmes Enhancements
Contract No.: 131177
Contract Title: Northern Train Lengthening
Drawing Title: Ryder Brow Station Proposed Extensions Sections and Details

Designed	P Wieclaw	Signed	Electronically Signed
Date	01/05/20		
Drawn	P.Wieclaw	Signed	Electronically Signed
Date	01/05/20		
Checked	T.Lightfoot	Signed	Electronically Signed
Date	01/05/20		
Approved	T.Lightfoot	Signed	Electronically Signed
Date	01/05/20		

Scale(s): As Shown
ELR & Mileage: 45.0082 to 45.0082
Alternative Reference:
Sheet: 1 of 1
Drawing Number: ENH_131177-624-TTA2-00-DDR-C-800002
Revision: Z01

Sheet Size A1 594 x 841

Published
Published
Published
Published
Published

Environment

Dear Customer

You may need an environmental permit if you intend to carry out work in, under, over or near to a main river flood or sea defence. You can find more information about this at:

https://www.gov.uk/guidance/flood-risk-activities-environmental-permits

Although the Environment Agency is classed as a statutory undertaker for certain purposes, we do not generally have plant equipment or pipelines situated in the public highway.

We have drafted this reply without conducting a specific search of our records. We ask that you make the necessary checks and if you have reason to think that your proposal will affect land or equipment which we own or is close to a watercourse as defined above, please resubmit your enquiry making this clear in your reply.

Kind regards

Liam Morris

Environment Agency

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Environment Agency

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Contact: enquiries@environment-agency.gov.uk 03708 506506

Flood map for planning

Your reference	Location (easting/northing)	Created
LevenshulmeRd	**388692/395452**	**8 Mar 2022 14:15**

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage problems

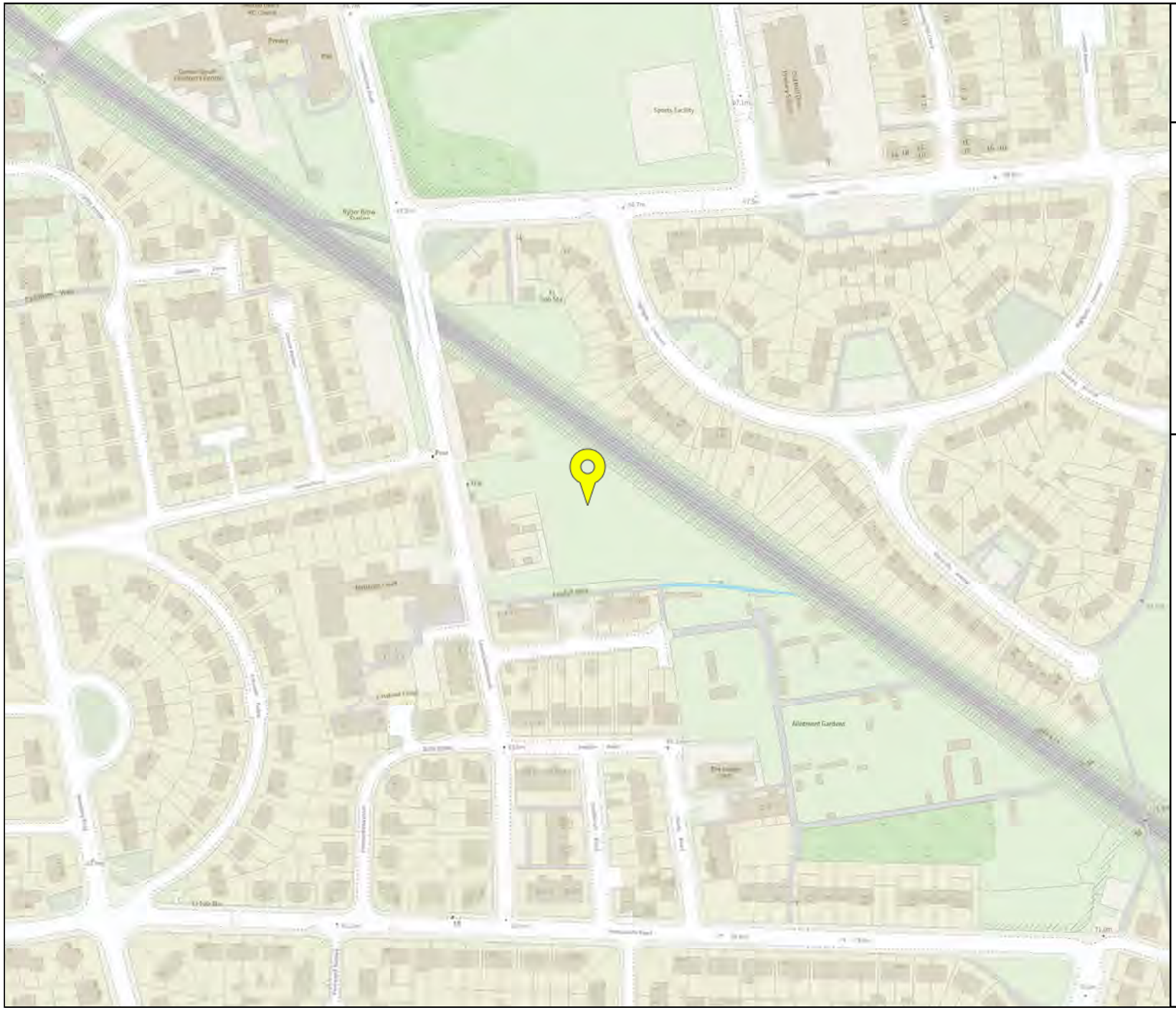
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2021 OS 100024198. https://flood-map-for-planning.service.gov.uk/os-terms



Environment Agency

Flood map for planning

Your reference
LevenshulmeRd

Location (easting/northing)
388692/395452

Scale
1:2500

Created
8 Mar 2022 14:15

- Selected point
- Flood zone 3
- Flood zone 3: areas benefitting from flood defences
- Flood zone 2
- Flood zone 1
- Flood defence
- Main river
- Flood storage area

0 20 40 60m

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UNEXPLODED BOMB RISK MAP

zeticaUXO

SITE LOCATION

Location: M18 7NL,
Map Centre: 388703,395400

LEGEND

High: Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.

Moderate: Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.

Low: Areas indicated as having 15 bombs per 1000acre or less.

miltary | **industry** | **UXO find**

transport | **dock** | **Luftwaffe targets**

utilities | **Bombing decoy** | **other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: **(https://zeticauxo.com/downloads-and-resources/risk-maps/)**

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It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Communications (Affected)

bitmap_layout select_raster

LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE

Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH

Email: asset.team@cityfibre.com

Disclaimer:

Information shown on this plan is for general guidance only. No warranty is made as to its accuracy.
This plan must not be solely relied upon in the event of excavation or other works being carried out in the vicinity of Cityfibre plant.
No liability of any kind is accepted by Cityfibre, its agents or servants for any error, omission, discrepancy or deviation. This information is valid for the date printed.

Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 08/03/2022

Drawing No.

CFH_EP_000001

Revision

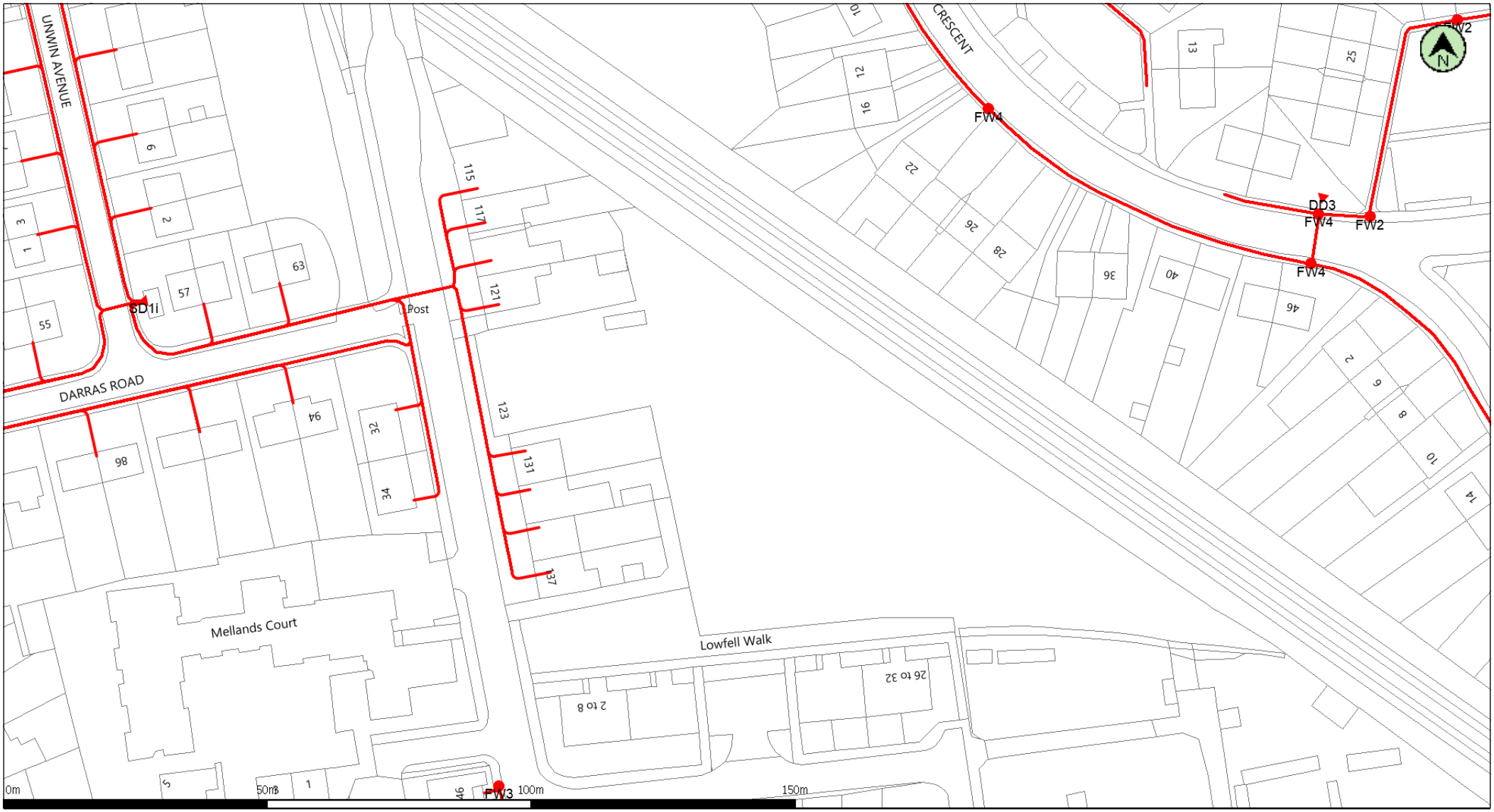
001

Scale: 1:2500

A4

0m 20m 40m 60m 80m 100m

N



(c) Crown copyright and database rights 2022 Ordnance Survey 100019209 | Date: 07/03/22 | Scale: 1:1017 | Map Centre: 388686,395458 | Data updated: 25/01/22 | Telecoms Plan A4

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 cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2022 Ordnance Survey 100019209.

Duct, Trench | Chamber / Pole | Cabinet

utilitysitesearch@outlook.com

Communications (None Affected)

Enquiry Confirmation

LSBUD Ref: 24943256

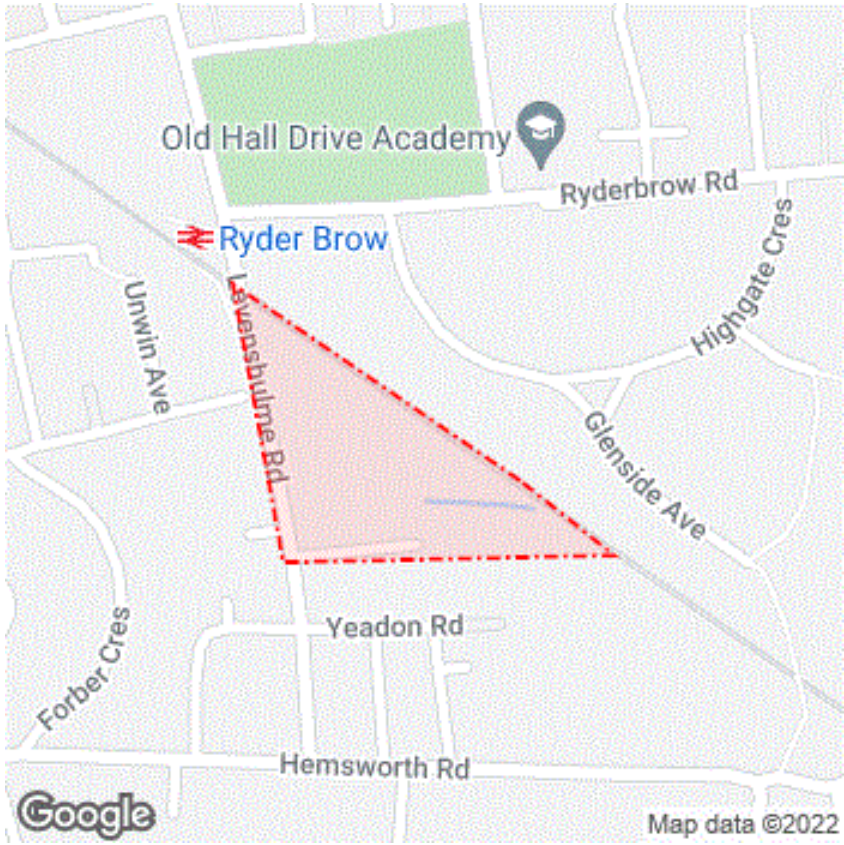
Date of enquiry: 07/03/2022
Time of enquiry: 20:14

Enquiry Details

Scheme/Reference	levenshulme Road		
Enquiry type	Initial Enquiry	Work category	Utility Works
Start date	08/03/2022	Work type	Multiple excavations site (1.5m or s
End date	22/03/2022	Site size	16816 metres square
Searched location	XY= 388692, 395452	Work type buffer*	25 metres
Confirmed location	388660 395485		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map



V3.3.6

Enquiry Confirmation

LSBUD Ref: 24943256

Date of enquiry: 07/03/2022
Time of enquiry: 20:14

Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.linesearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
   a. These LSBUD Members will either:
      i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.

      ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.

2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")

3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

Enquiry Confirmation

LSBUD Ref: 24943256

Date of enquiry: 07/03/2022
Time of enquiry: 20:14

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members			
Asset Owner	**Phone/Email**	**Emergency Only**	**Status**
Cadent Gas	0800688588	0800111999	Await response
Electricity North West Limited	08001954141	08001954141	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members		
AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	E.ON UK CHP Limited
EirGrid	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	euNetworks Fiber UK Ltd	EXA Infrastructure
Exolum Pipeline System	Fulcrum Pipelines Limited	Gamma
Gas Networks Ireland (UK)	Gateshead Energy Company	Gigaclear Ltd
Harbour Energy	Heathrow Airport LTD	Humbly Grove Energy
IGas Energy	INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)
INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd	Last Mile	Mainline Pipelines Limited
Manchester Jetline Limited	Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)
Melbourn Solar Limited	Murphy Utility Assets	National Grid Electricity Transmission
National Grid Gas Transmission	Neos Networks	Northumbrian Water Group
NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd	NYnet Ltd
Oikos Storage Limited	Ørsted	Palm Paper Ltd
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
SAS Utility Services Ltd	Scottish and Southern Electricity Networks	Scottish Power Generation
Seabank Power Ltd	SES Water	SGN
Shell	Shell NOP	SP Energy Networks
Squire Energy Networks	SSE Generation Ltd	SSE Transmission
SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines

Total Finaline Pipelines	Transmission Capital	UK Power Networks
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	VPI Power Limited
Wales and West Utilities	West of Duddon Sands Transmission Ltd	Western Power Distribution
Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd	

Enquiry Confirmation

LSBUD Ref: 24943256

Date of enquiry: 07/03/2022
Time of enquiry: 20:14

The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	**Preferred contact method**	**Phone**	**Status**
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
ENGIE	nrswa.uk@engie.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@instalcom.co.uk	02087314613	Not Notified
Manchester City Council	https://www.manchester.gov.uk		Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Network Rail	OPBuriedServicesEnquiries@networkrail.co.uk	01904523401	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
Teliasonera	check-network@teliacompany.com	0800526015	Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified

Disclaimer

Please refer to LinesearchbeforeUdig's Terms of Use for full terms of use available at www.linesearchbeforeudig.co.uk

The results of this Enquiry are personal to the Enquirer and shall not be shared with or relied upon by any other party. The asset information on which the Enquiry results are based has been provided by LSBUD Members, therefore LinesearchbeforeUdig will provide no guarantee that such information is accurate or reliable nor does it monitor such asset information for accuracy and reliability going forward. There may also be asset owners which do not participate in the enquiry service operated by LinesearchbeforeUdig, including but not exclusively those set out above. Therefore, LinesearchbeforeUdig cannot make any representation or give any guarantee or warranty as to the completeness of the information contained in the enquiry results or accept any responsibility for the accuracy of the mapping images used. LinesearchbeforeUdig and its employees, agents and consultants accept no liability (save that nothing in this Enquiry Confirmation excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by English law) arising in respect thereof or in any other way for errors or omissions including responsibility to any person by reason of negligence.

Levenshulme Road, Manchester – March 2022

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Energetics **does not** have any plant within the area(s) specified in your request.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to plantenquiries@energetics-uk.com

Regards

Plant Enquiries

E: plantenquiries@energetics-uk.com

W: www.energetics-uk.com

energetics

WE DESIGN • WE BUILD • WE CONNECT

Levenshulme Road, Manchester – March 2022

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that Level 3, Global Crossing (Uk) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd do not have any apparatus within the indicated works area.

Instalcom responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept

Instalcom Limited

Borehamwood Ind. Park

Rowley Lane

Borehamwood

WD6 5PZ

Office: +44 (0)208 731 4613

Fax: +44 (0)208 731 4601

Email: plantenquiries@instalcom.co.uk

Web: http://www.instalcom.co.uk

Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards

NRSWA Department
Tech UK - Implementation
sky | TECHNOLOGY
nrswa@sky.uk +44 20703232234

Hi, thanks for the advance notice however I can confirm on this occasion we have NO apparatus in the vicinity of the proposed works. (Gtt formerly Hibernia Networks). We are now a member of LSBUD, for all future requests please contact LSBUD directly.

Regards

Owen Maguire

Networks Operations Manager NI
office: +44 (0) 28 70380028 | mobile: +44 754-553-2224

www.gtt.net

Levenshulme Road, Manchester – March 2022

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries, please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer (GB) Email osp-team@uk.verizon.com

Levenshulme Road, Manchester – March 2022

Dear Sir/Madam,

Please note that KCOM only own apparatus within the Public Highway in East Yorkshire and Lincolnshire.

Apparatus in the Public Highway, which was previously owned by KCOM outside of East Yorkshire and Lincolnshire, is now owned by City Fibre.

All future Plant enquiries or NRSWA C2, C3 or C4 Inquiries, regarding this apparatus outside of East Yorkshire and Lincolnshire, should be directed to City Fibre not KCOM.

Please forward your enquiry to asset.team@cityfibre.com

PLEASE NOTE THIS EMAIL HAS NOT BEEN FORWARDED

Regards

Jarod Gillespie

Apprentice Planning and Design Consultant– Field Engineering

Tel: +44 (0)3316 646302

Mob: +44 (0)7484 032622

Email: jarod.gillespie@kcom.com

Web: www.kcom.com

Thank you for recently contacting Utility Assets plant record department. We will check whether we have any plant present at your site and contact you within 5 - 7 working days ONLY if we own any plant in the vicinity.

If we do not reply, we do not have any apparatus in the area of your works. However, PLEASE TAKE CARE when excavating around electricity cables in the event that not all cables present may be accurately shown. We recommend you use detecting equipment to map the site before excavating and fully comply with HSG47. DO NOT assume that a cable is dead if you don't have a record of its presence. The cable must be treated as live unless PROVEN DEAD by the cable owner. In case of emergency please contact your local electricity distribution company.

This is an automated reply from our dedicated asset records email address. If you receive further correspondence from us, it will be from asset.manager@utilityassets.co.uk quoting a site reference number.

Asset Manager - Utility Assets Ltd

Levenshulme Road, Manchester – March 2022

Thank you for your recent enquiry regarding your proposed work at the above location.

euNetworks Fiber UK Limited do not have plant in the vicinity of your proposed works and no strategic additions to our existing network are envisaged in the immediate future.

This information is only valid for a period of 3 months so, if your start date is 3 months or more from the date of this email, please re-apply for updated information at our generic email address: plantenquiries@psgservices.co.uk.

Kind regards

ALL PLANT ENQUIRIES AND DIVERSIONARY REQUESTS SHOULD BE ADDRESSED BY EMAIL TO THE OPERATIONS

TEAM AT plantenquiries@psgservices.co.uk , WITH A PLAN AND FULL POSTAL ADDRESS OF YOUR ENQUIRY,

THANK YOU

For and on behalf of euNetwork Fiber UK Limited

Regards

Stuart Green

M 07796 696810 | T 01257 433166 | E plantenquiries@psgservices.co.uk

Telecommunications Survey, Planning, Engineering & GIS Services

Levenshulme Road, Manchester – March 2022

Good Morning,

I can confirm there are no assets in the area.

Kind Regards

Claire Phillips

Distribution Administration Assistant

0844 800 1813

Harlaxton
Energy Networks Limited

Toll Bar Road, Marston, Grantham, Lincolnshire, NG32 2HT Registered Company Number : 7330883

Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that SOTA do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept.
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: sota.plantenquiries@instalcom.co.uk
Web: http://www.instalcom.co.uk

Dear Sir/Madam

Turner & Townsend Project Management are appointed on behalf of MBNL to conduct Plant (apparatus) Searches in accordance with the relevant NRSWA Act 1991- Diversionary Works

legislation. These searches considered plant belonging to EE (T-Mobile and Orange sites) and the HG3 mobile telecommunication networks.

Further to your plant enquiry please see the response below to the NRSWA request submitted

MBNL do not have any plant that would be affected by the proposed work please see attached. Should you have any further queries please use the contact details below.

PS: Please can you send all future Plant enquiries for EE or H3G to this email address mbnlplantenquiries@turntown.com

Thank you,

Kind regards,

MBNL SHQE Team

Turner & Townsend
t: 0121 262 3663 | www.turnerandtownsend.com

Public

Date
07032022

Contact

Arelion
Infrastructure Team

check-network@arelion.com

Your reference: Levenshulme Road Manchester

Our reference: UK_ROW_16_ZD_07032022

Dear Sir/Madam,

Responding to your Line Plant Enquiry we would like to inform you that Arelion's network is not in vicinity of the location which was detailed in your enquiry.

We kindly inform you that from the 1st of June 2021 Arelions inquiries handling process has changed. The new contact email is check-network@arelion.com instead of telenttelia.plantenquiries@telent.com. Please note that Telia has changed its brand name to Arelion, the contact postal address has changed as well please find below.

Our team is seeking opportunity to cooperate with Enquirers whose enquiries are targeting locations far away from our network. Our intention is to reduce the number of out-of-area requests and save time and manpower on both side. If you can utilize our network KMZ map to see where our network is located and to pre-filter the enquiries which are far from our network, please contact us at check-network@arelion.com and we will provide you a KMZ network map.

Public

Date
07032022

Please note that all enquiries relating to the Arelion line plant should forwarded to:

By post - to,	Telia Carrier Uk Ltd
	69-77 Paul Street
	3rd Floor
	London
	EC2A 4NW
By email - to,	check-network@arelion.com
By phone - to,	08000287406 003618089955

Your sincerely

Tardos Csizmazia

GIS Officer

check-network@arelion.com

Arelion Infrastructure Team

Please Note: Our search criteria has changed. We previously searched for Colt Network which was within 200 metres, this has now changed to 50 metres. The negative response will be for all enquiries that the network is 50 metres or more away from the place of enquiry.

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team

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To whom it may concern

With regard to your request for details of existing services in the specified area;

We can confirm that, based on the details provided to us, we have no buried plant or equipment in the identified area.

Kind regards

EQUANS

NRSWA

Urban Energy

UK & IRELAND

T +28 2216530

White Post Lane
London E15 2GP

www.engie.co.uk

Please consider the environment before printing this message

Part of the ENGIE Group

Levenshulme Road, Manchester – March 2022

GTC Apparatus Not Found In Search Area

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

If you have any queries or require any further information please do not hesitate to contact us.

Your sincerely,
GTC Plant Enquiry Service.

GTC
Synergy House
Woolpit Business Park
Woolpit
Bury St Edmunds
Suffolk, IP30 9UP
Tel: 01359 240363
plant.enquiries@gtc-uk.co.uk

Thank you for your correspondence enclosing details of your proposals as per your reference below.

Our client's apparatus, Teliasonera, is not located within the vicinity of the above reference and we therefore have no further interest in this current location.

Please note that all enquiries relating to the Teliasonera line plant should be forwarded to:

By post – to, telent,

Teliasonera line plant enquiries,

Mayne House,

Fenton Way,

Basildon,

Essex,

SS15 6TD

By email - to, telenttelia.plantenquiries@telent.com

By phone – to, 01268 269096

Yours faithfully

Telent CCO

Basildon

Dear Sir,

Our records show we have no equipment at this location.

Linda

Linda Francomb Delivery Administrator
Clear Channel United Kingdom Unit 9, Newtons Court, Galleon Boulevard, Crossways Business Park Park, Dartford, Kent DA2 6QL
D 0044 1322 620 707
M N/A

Leep Electricity Networks Ltd & Leep Utilities have no apparatus in this area.

Regards
Hayley

Leep Electricity Networks
Take a look at our **website**

e: lenl@leeputilities.co.uk
w: **www.leeputilities.co.uk**
Privacy Notice

Thank you for your email.
I can confirm we have no assets in the area.

Kind Regards

Raghu Sharma
Engineering Support Administrator

Tel: 0333 666 2008

Web: www.energyassetsnetworks.co.uk

Hello,

We can confirm we do not have anything in this area at present.

Thank you for your email.

Please do not hesitate to contact me with any queries

Victoria Coles
Eclipse Power
Office: +44 (0) 1234 486487
Mobile: +44 (0) 7860927197

www.eclipsepower.co.uk
https://www.linkedin.com/company/eclipse-power-networks/

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Disclaimer

Disclaimer

This record pack has been compiled from information provided by statutory utility providers.

Whilst every effort has been made to ensure the accuracy

and completeness of information included within this report,

take no responsibility for erroneous or missing historic record data which has been supplied

to us from a utility provider. Due to the nature of record

information being indicative rather than accurate it is advisable

for a full site utility survey to be undertaken

prior to any groundwork's or construction.

Suites 3 & 4 Orchard House 17 Summerwood Lane Halsall Lancashire

T: 01704 840938 E: info@wcgeo.co.uk