

Watch it!

Safety advice brought to you by Scottish and Southern Electricity Networks Distribution (SSEN Distribution)

These notes are intended to help all those who have to work in the vicinity of electrical apparatus. Employers have a legal obligation to ensure that their operatives are fully instructed in the correct procedures.

The Electricity at Work Regulations 1989 impose health and safety requirements upon employers, employees and self-employed persons with respect to electricity at work. The regulations impose restrictions on persons being engaged in work activities on or near live conductors.

Regulation 14 requires that: "No person shall be engaged in any work activity on or near any live conductor (other than one suitably covered with insulating material so as to prevent danger) that danger

may arise unless:

- it is unreasonable in all circumstances for it to be dead; and
- it is reasonable in all circumstances for him to be at work on or near it while it is live; and
- suitable precautions (including where necessary the provision of suitable protective equipment) are taken to prevent injury."

The purpose of the regulations is to require precautions to be taken against the risk of death or personal

injury from electricity in work activities.

Publications

The Health and Safety Executive have produced a document entitled 'Avoiding Danger from Underground

Services', and the Appendix 1 deals specifically with electric cables. Copies are available from the HSE's

Accredited Agents and good booksellers, Ref. HS (G) 47.

Copies of Health and Safety Guidance note GS 6 relating to safe working in proximity to overhead lines, are available from the Health and Safety Executive's website - www.hse.gov.uk.

Note

In situations of emergency or danger, or where the advice contained in these notes cannot be followed, you must consult SSEN Distribution immediately. Tel. 0800 0727282 for southern England or 0800 300999 for Scotland.

Additional copies of these "Watch it!" leaflets can be obtained from our Asset Data Team office upon request. Tel. 01256 337294, or asset.data@sse.com.

You must read and accept the following safety notes as part of the contract to receive our network plans. You will have the option to print these and issue them to site staff.

Watch it! - Working in the vicinity of underground cables

Our plans show the positions and normal depths for the buried cables and pipes at the time when they were installed. However, alterations to road alignments surface levels and buildings may have occurred subsequently without our knowledge. If you discover plant or cables that are not marked or incorrectly marked, then you are required to contact us as soon as possible to give us the opportunity to amend our plans.

These plans show the equipment owned by SSEN Distribution. There may be other privately owned plant in the area, which is outside of our control. You should always check with the Local Authority, National Grid Company, Department of the Environment, other Electricity Companies and other utilities before proceeding.

It is not intended that the issue of these plans will absolve either party from their obligation under any of the acts that control digging in the public highways.

Supplies To Properties, etc.

The location of cables supplying individual properties, street lighting, traffic signs, telephone kiosks etc. are not always shown on the plans. You should assume that each property, streetlight etc. will have its own supply cable.

Major Circuits

Where our plans indicate the presence of cables with a voltage exceeding 11,000 volts, you are advised to contact our local depot (telephone number is on the plans), before commencing any excavations within the vicinity of these cables. These major circuits form an extremely important link in SSEN Distributions' networks, damaging or modifying these circuits is a major and costly undertaking. Any development should therefore be designed to allow these circuits to remain undisturbed and accessible in their present location.

For your own and your workmates' safety, please follow the do's and don'ts listed below:

- ✓ do make sure you have plans of the underground cables in the area before any excavation
 work starts. Remember that some cables may not be shown on plans. If carrying out
 emergency work, excavate as though there are buried live cables in the vicinity.
- do use a cable locator to determine the position of existing cables in the work area. The positions should be marked and tests made as work proceeds. If in doubt, get advice from your supervisor.
- ✓ **do** ask for a cable to be made dead if it is buried in concrete.

- do backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
- ✓ do notify us immediately if you accidentally damage our cables. Arrange to keep people well clear of a cable that has been damaged until we have confirmed it has been made safe.
- ✓ do make sure before starting to demolish a building that all cables have been disconnected.

 We welcome prior notice of the intention to demolish buildings. This enables us to ensure that the site has been made safe electrically.
- don't operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
- don't use picks, pins, forks or pointed instruments in soft clay or soil when cables are present. Exercise extreme caution where such instruments are used to free lumps of stone, or break up firmly compacted ground. Never throw a fork or sharp instrument into the ground.
- ✓ don't dig trial holes over the indicated route of the cable. Excavate alongside instead.
- ✓ don't use exposed cables as a convenient step or handhold.
- ✓ don't handle or attempt to alter the position of any cable.

Remember that a damaged cable may cause extensive loss of supplies, make expensive repairs necessary and cause serious or even fatal injury.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make cables dead without interrupting supplies to our customers. But given adequate notice, we will wherever possible, give advice regarding special precautions which may be necessary on any site where particular problems are likely to be encountered. The right is reserved to make a charge for this service.

Electricity cables can exist anywhere - under paths or roads, in gardens or driveways, on new housing or industrial development sites or even farmland.

Watch it! - Working in the vicinity of overhead lines

For your own and your workmates' safety, please follow the do's and don'ts listed below

- ✓ do carefully note the position of all overhead lines before commencing work.
- ✓ **do** co-operate with us during planning and sitework stages.
- do follow the advice given in HSE Guidance Note GS 6 when siting barriers, goal posts, bunting etc.
- do keep overhead lines in view when moving scaffolding or machinery and take special care when felling or lopping trees.
- ✓ do remember that the raising or slewing of a crane or excavator jib may cause danger when operating near an overhead line.

- do avoid any machinery that is in contact with an overhead line until we confirm that conditions are safe.
- ✓ **do** warn others to keep well clear.
- ✓ don't drive a high vehicle below an overhead line when an alternative route is available.
- don't raise the bed of a tipper lorry beneath an overhead line or drive under the line with the body of the vehicle raised.
- don't steady any suspended load until you are satisfied that there is no danger from overhead lines.
- don't handle or use scaffold platforms, poles, pipes or ladders unless they are at a safe distance from overhead lines.
- ✓ don't transport long objects beneath overhead lines, unless they are carried in a horizontal position.
- ✓ **don't** approach or touch any broken or fallen overhead lines.

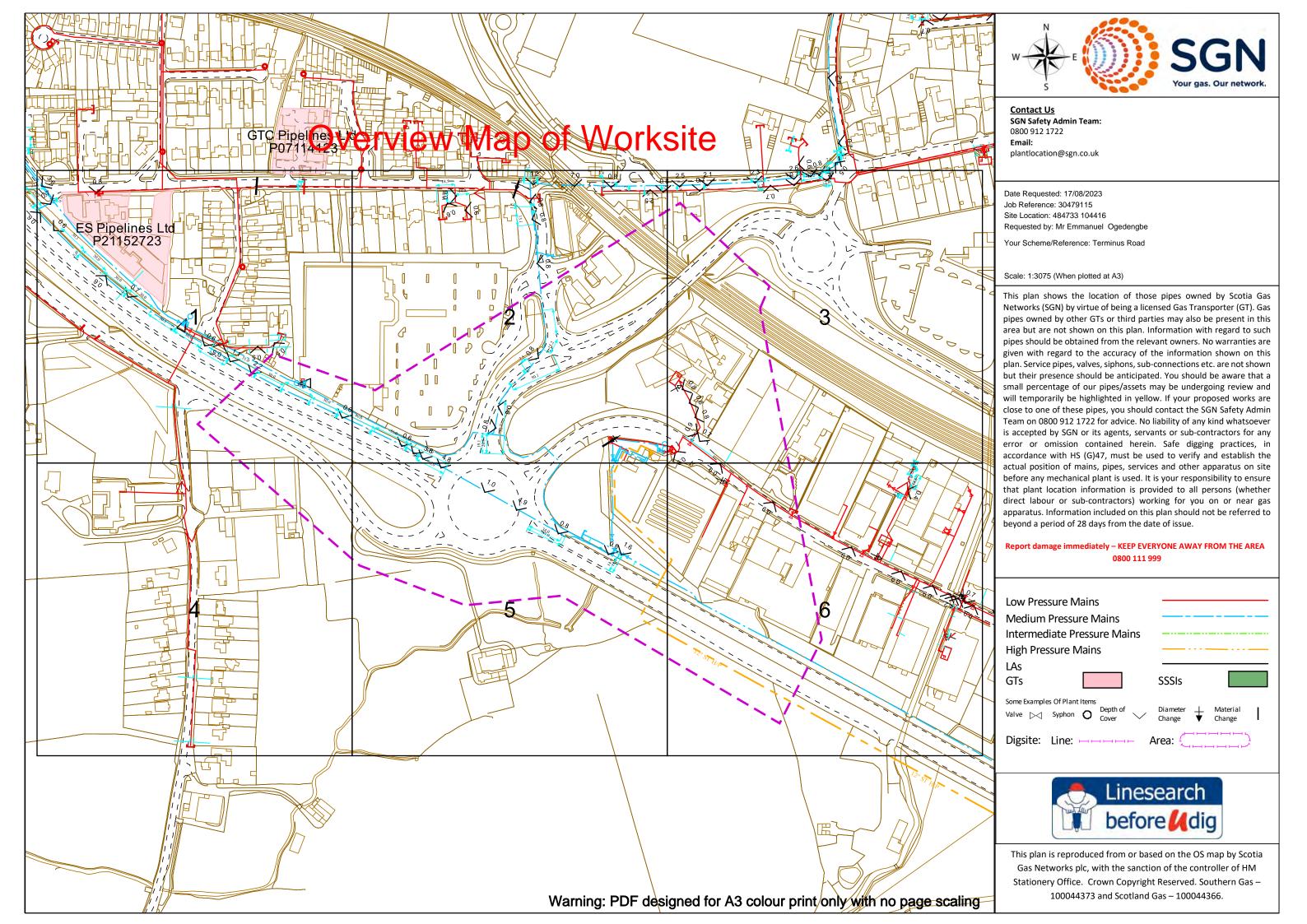
Always remember that:

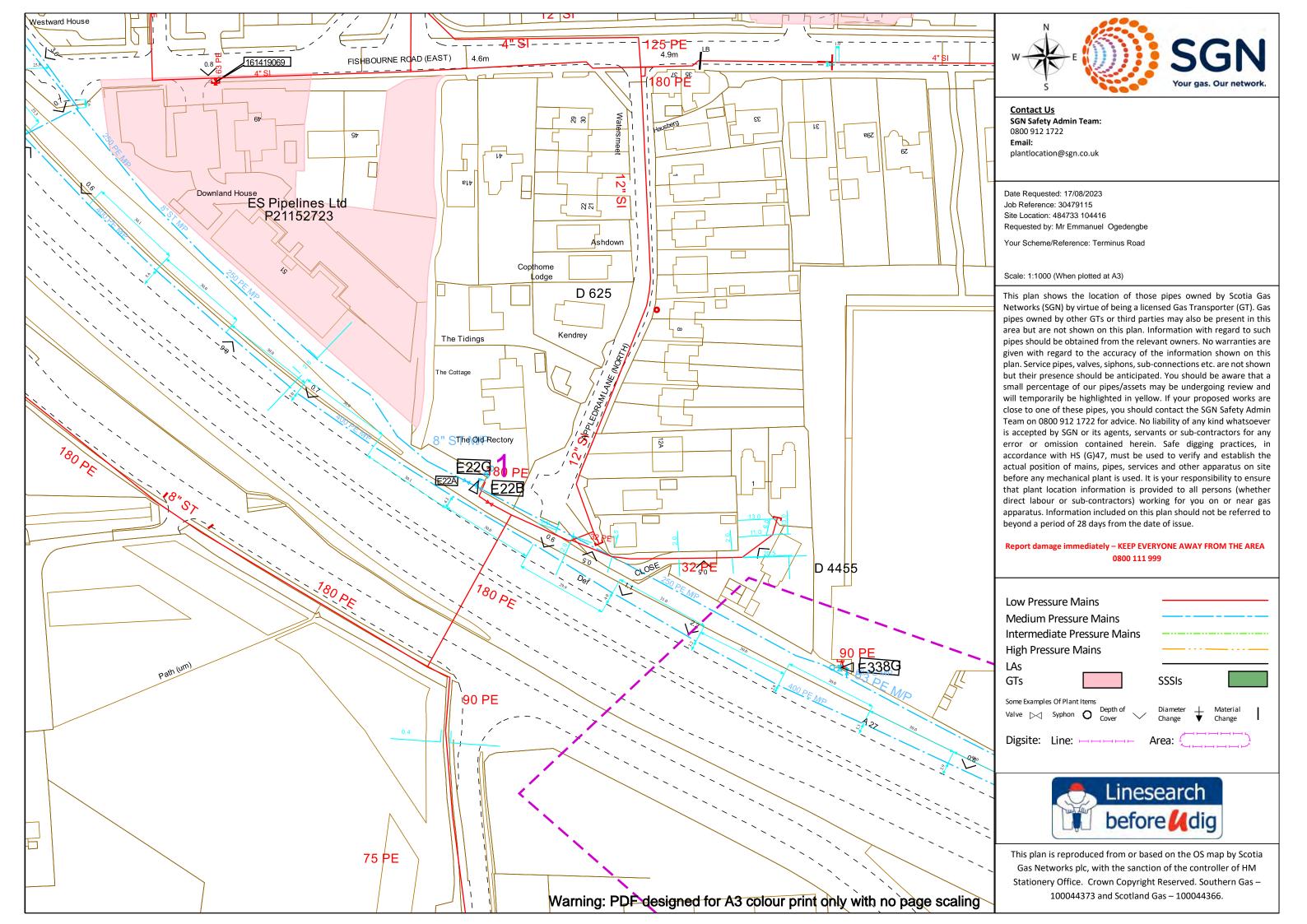
- Electricity can jump gaps.
- Contact or near contact with a crane jib, scaffold or ladder can cause a discharge of electricity with a risk of fatal or severe shock and burns to any person in the vicinity.

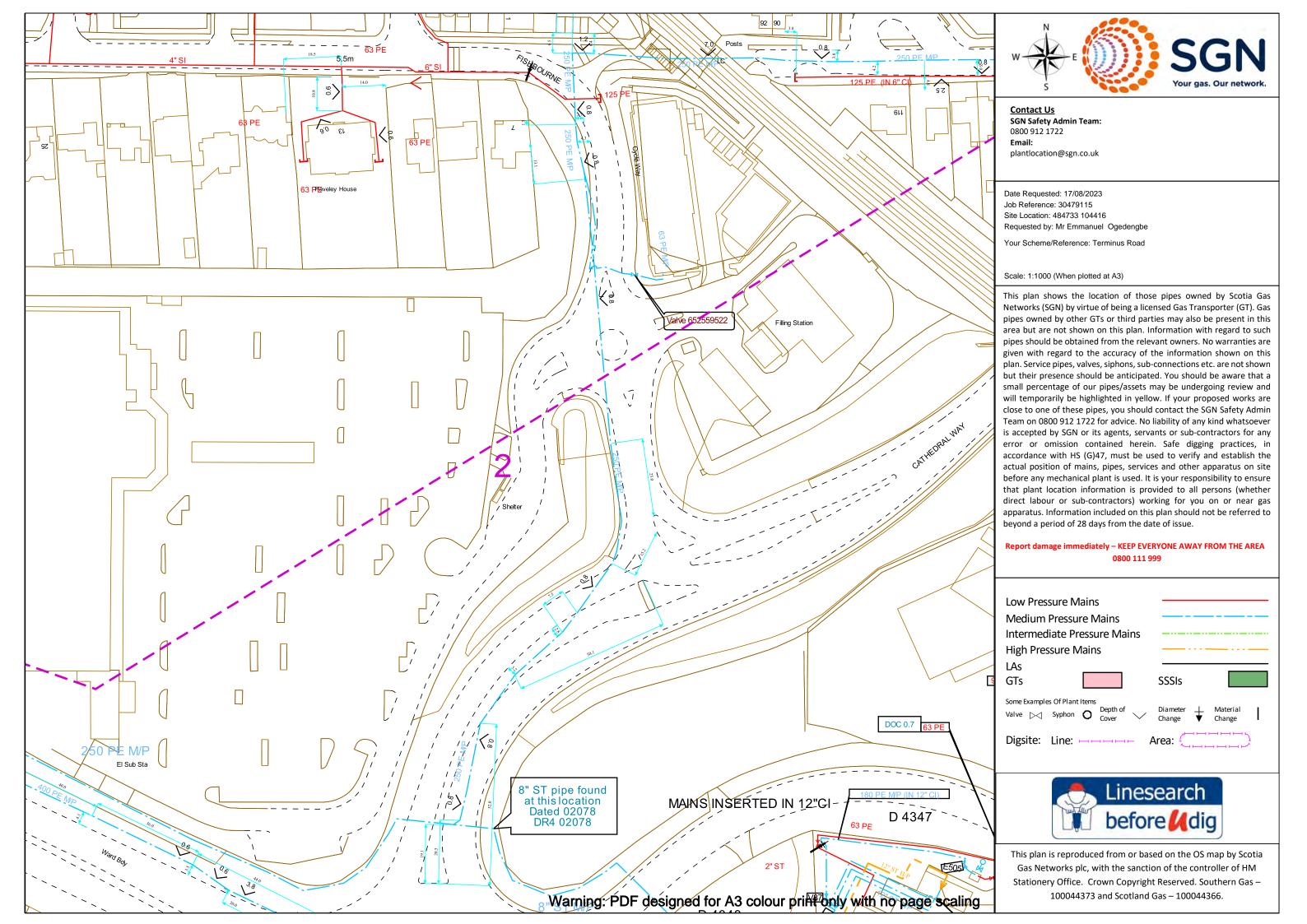
If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

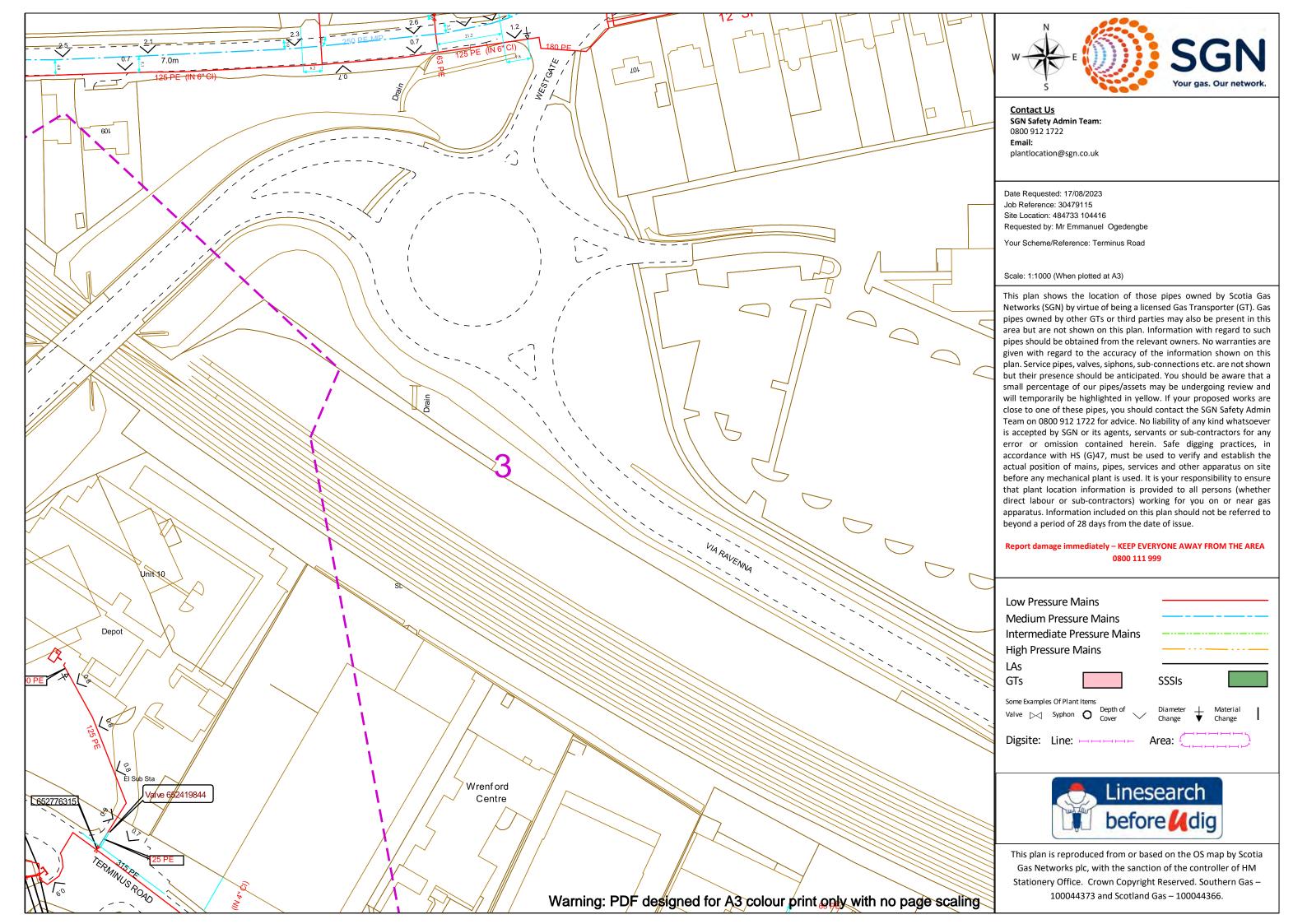
In most cases it is not practicable to make overhead lines dead without interrupting supplies to customers. However, provided adequate notice is given, then we will, whenever possible, give advice regarding special precautions which may be necessary on site where specific problems may be encountered. The right is reserved to make a charge for this service.

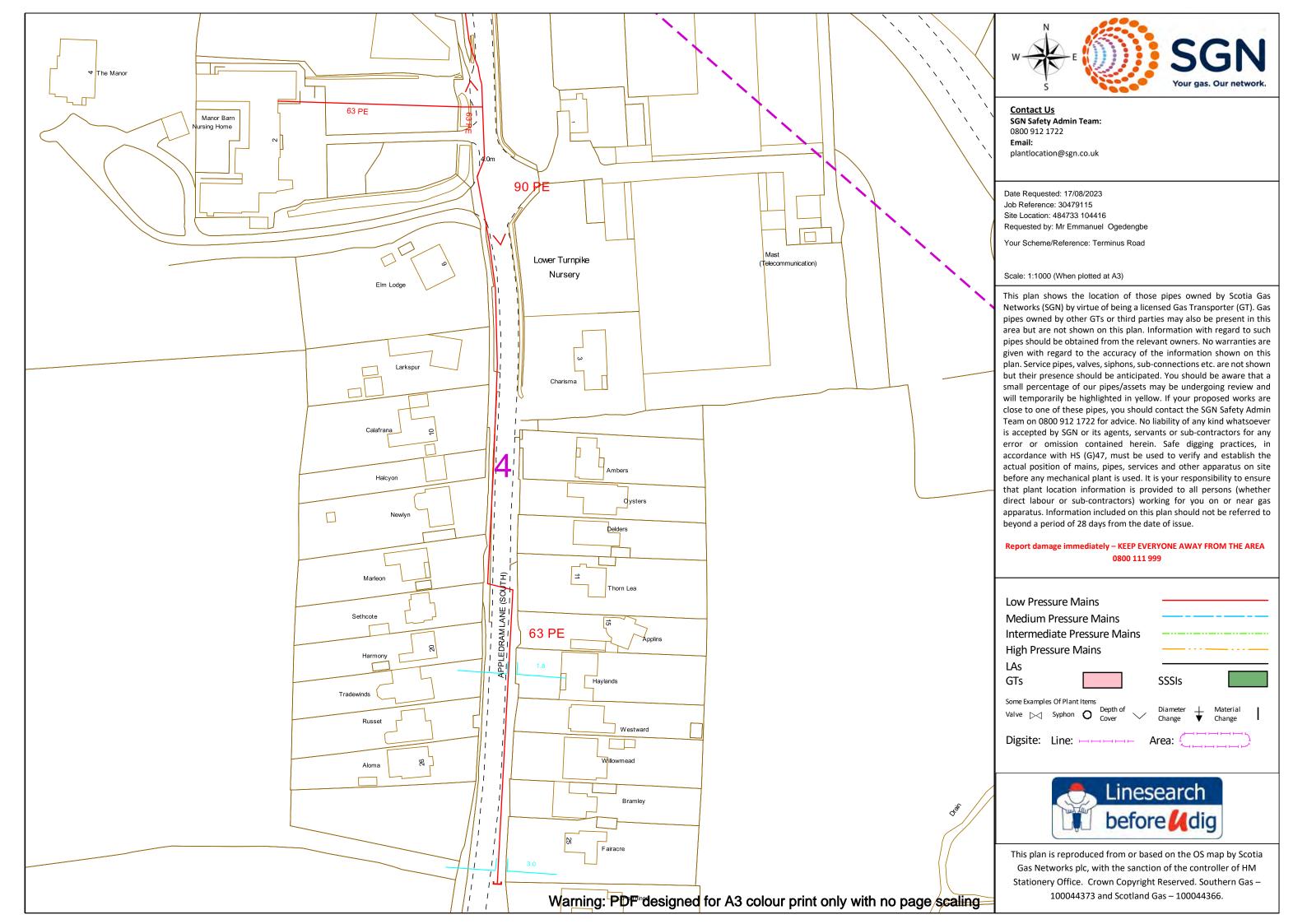
Scottish and Southern Electricity Networks is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460 (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at No.1 Forbury Place 43 Forbury Road Reading RG1 3JH which are members of the SSE Group www.ssen.co.uk

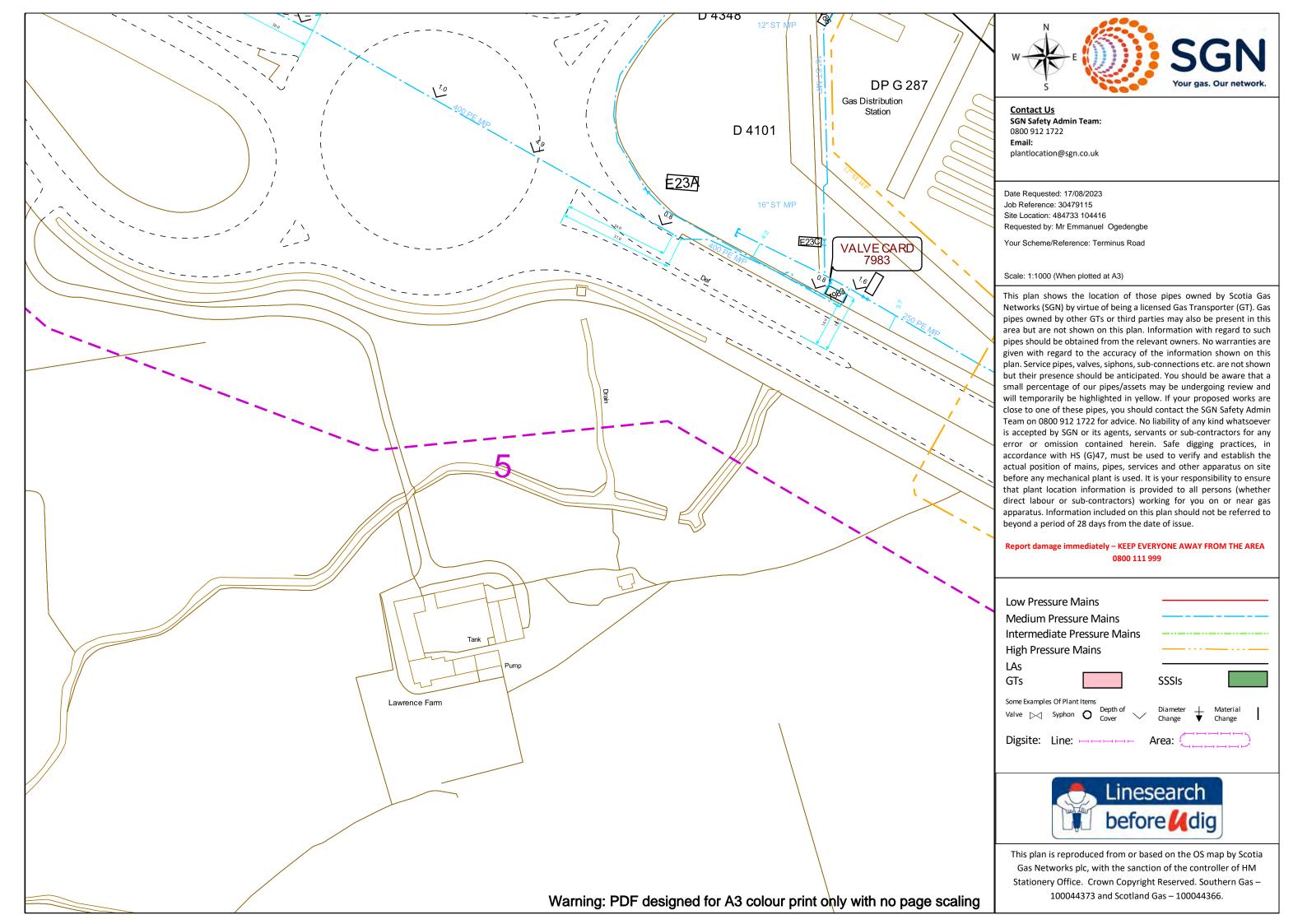


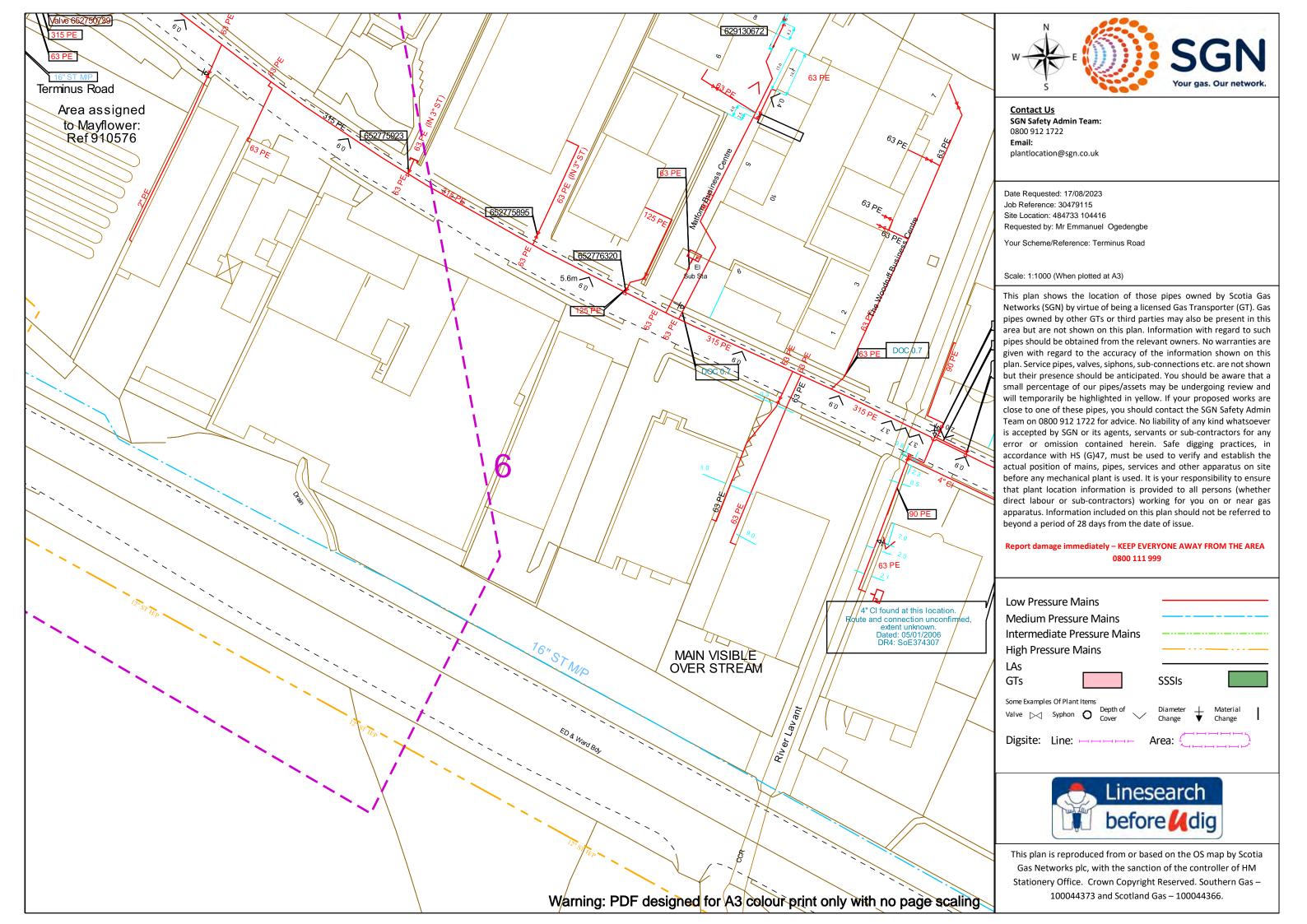


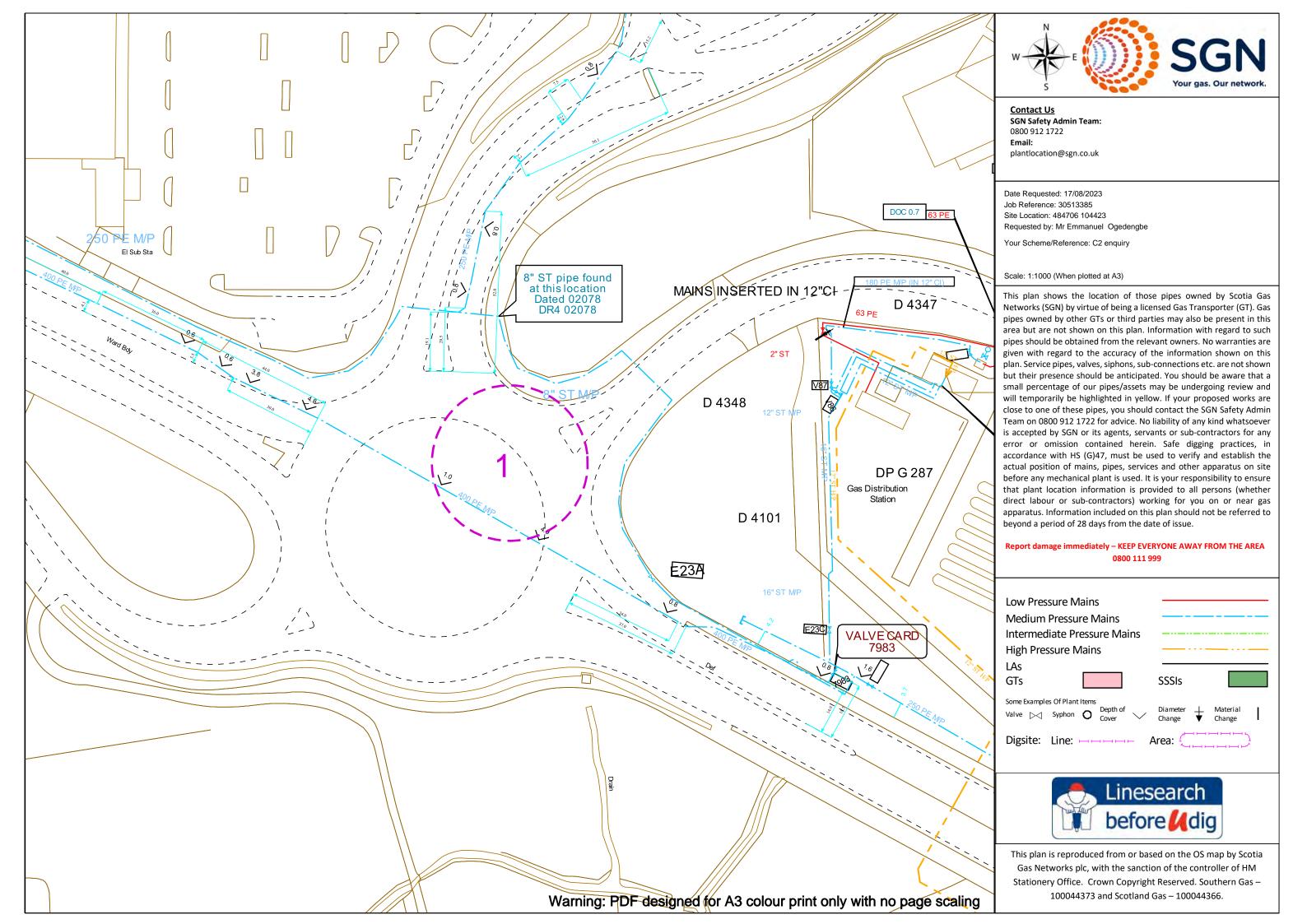














Our Ref: 30513385 Your Ref: C2 enquiry

Thursday, 17 August 2023

Emmanuel Ogedengbe Caversham Bridge House Waterman Place Reading BRK RG1 8DN

Dear Emmanuel Ogedengbe

Thank you for your enquiry dated Thursday, 17 August 2023

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the 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 relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

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

Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on sgn.co.uk

Tel: 0800 912 1722



The following protective and precautionary measures MUST be taken when working in the vicinity of gas mains and services.

It is the responsibility of the property owner or company carrying out the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance, eg HS(G)47. In practice, this means that whoever is carrying out the work MUST obtain gas mains location information and/or maps showing the indicative position of the gas network before any work takes place.

To avoid injury to yourself, your employees, colleagues and the general public you MUST suitably mark the position of the pipes on site.

HS(G)47 outlines best practice that should be followed to ensure you work safely:

- 1. Plan the work, obtain maps.
- 2. Detecting, identifying and marking underground services.
- 3. Safe excavation and safe digging practices.

In addition to the requirements under the Health and Safety At Work etc. Act 1974 to prevent injuries to employees and others (not employee), it is an offence under regulation 15 of the Pipelines Safety Regulations 1996 to cause damage to a pipeline (which includes gas mains and services as well as higher pressure pipelines) so as to give rise to a danger to persons.

You MUST make sure that current full colour copies of our maps are issued to all relevant personnel on site and they're aware of the presence and location of our gas mains and services prior to any excavation.

In a gas emergency

If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you MUST take the following emergency actions immediately:

- Ask people to move away from the area of the gas escape.
- Call 0800 111 999 immediately.

- 1. Don't attempt to repair the escape or stop the leakage.
- 2. As gas may enter buildings, ask people in the surrounding premises to leave until it's safe for them to return.
- 3. Stop anyone going near the immediate vicinity of the gas escape.
- 4. Prohibit smoking and extinguish all naked flames.
- Don't use mobile phones or other ignition sources.
- 6. Assist our representatives and other emergency services such as the police, ambulance, and fire service as requested.

Additional reference material

- SGN guidance for Safe Working in the Vicinity of Pipelines & Associated Installations operating >7barg. Applicable for HP only.
- HS(G)47 Avoiding Danger from Underground Services available from hse.gov.uk
- NJUG Utilities Guidance on Positioning and Colour Coding of Apparatus available from njug.org.uk





Making an enquiry for gas mains or services maps

Please visit our **Dig safely** pages on **sgn.co.uk** for plant protection information and links to our online mapping system and other associated information and guidance.

Our simple and easy to use online mapping system is available 24/7, 365 days a year.

You'll need to register/log in and provide a few details about your site location and the work you'll be carrying out. We'll respond immediately by email.

What you're likely to be sent

You'll be sent an email with a map. This will be an extract from our gas mains record, showing your site and any of our gas pipes as well as relevant safety information.

We always send out safety information, however we may forward your enquiry on to a local plant protection officer or a pipelines engineer to make direct contact with you depending on the work location.



Example of a gas map

Note: Service pipes are not shown on our maps

When working near our gas mains and services

Safe system of work

To satisfy ourselves that work in the vicinity of our gas mains is being carried out safely, we may ask for a copy of your risk assessment and/or method statement paperwork.

Where work falls under the Construction (Design and Management) Regulations 2015 reference to our gas mains and services MUST be made within your site Health and Safety file.

Financial

Every reasonable precaution MUST be taken to avoid personal injury or damage to our gas network at all times.

If we incur any costs to repair direct or consequential damage or divert any gas main or service, you'll be recharged in full.

HSE

Any damage to our gas mains or services will be subject to legislative reporting responsibilities to the Health and Safety Executive under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996, and the Pipelines Safety Regulations 1996.

Minimum safe working distances

Depending on the activity being undertaken and the gas mains or services you are working within the vicinity of, there are different safe distances that MUST be adhered to. SGN plant protection officers or pipeline engineers will inform you of these if required.

Surface boxes and manholes

Do not bury or move our surface boxes. Free access MUST be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

Deep excavations

Adequate protection, approved by us, MUST be applied for any deep excavations in the vicinity of our gas mains and services that may affect its security and integrity. Ground movement around gas mains MUST be prevented. We MUST be contacted if a sewer trench or any other water authority is to be constructed at greater than 1.5 metres depth near a buried gas main or service pipe. You MUST give us detailed drawings showing the line and width of the proposed sewer or other trench, together with the soil group classification of the area concerned.



Crossing our mains or services

The placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over our gas mains is prohibited unless specifically agreed protective measures (ie the construction of reinforced crossing points) have been carried out. This is particularly important where reductions in side support or ground cover are planned. You MUST NOT carry out any work in servitudes/easements without our prior written consent.

Exposed plant

Where excavations in the vicinity of our gas mains affect its support, the plant MUST be adequately supported and protected in consultation with us and to our satisfaction. It MUST be protected from impact, restraints and thrust blocks, and supports MUST NOT be removed without our agreement.

Hot work

One of our representatives should be present when welding or other hot work involving naked flames is being carried out near our gas mains, as there's potential for heat damage to plastic pipeline/coatings.

Backfilling

Concrete backfill should not be placed closer than 300mm to our mains. No concrete or hard material should be placed under or adjacent to any of our gas mains. Shuttering MUST be constructed to maintain the stated clearances and prevent fresh concrete encasing our mains or services. Material used for backfill around our gas mains MUST conform to the following:

- If sand, it MUST be well-graded in accordance with BS EN 12620:2002.
- It MUST NOT contain any sharp particles (stones, bricks, lumps or corrosive materials).
- Foamed concrete MUST NOT be used.
- It MUST be laid to a minimum depth of 250mm above the crown of the gas main.

Note: Power ramming MUST NOT take place until a 300mm hand rammed layer has been completed over the crown of the main.

Access

Free access to our sites, mains and services, including temporary structures and spoil heaps MUST be available at all times.





Mechanical excavation

Mechanical excavators (including breaker attachments) MUST NOT be used within the following distances from the confirmed location of our gas mains and services shown on our gas maps without prior agreement:

Type of mains and services	Gas map identification	Hand excavation required inside	Pipe pressure indication shown on map
Low Pressure (LP)	0 - 75mbar	0.5 metres	
Medium Pressure (MP)	75mbar to 2 bar	0.5 metres	
Intermediate Pressure (IP)	2 - 7 bar	3.0 metres	
High Pressure (HP)	Above 7 bar	You must seek approval from us prior to any work	

Major accident hazard pipelines

High pressure pipeline

No work is to take place near an HP pipeline until it is agreed with us. After agreement and before any work does take place, the location of our pipeline MUST be marked up and its position confirmed by digging trial holes with our personnel in attendance.





Pipeline markers

High pressure

We will be involved in any work taking place near high pressure pipelines. We will provide you with additional information that you MUST familiarise yourself with before carrying out any work.

The default method of excavating near high pressure gas pipelines MUST always be by hand.



Wind turbines

The UK Onshore Pipelines Operations Association (UKOPA) has identified the appropriate exclusion zone (distance from the base of the wind turbine mast to the edge of the pipeline) as 1.5 times the turbine height. Contact MUST be made with us during the planning stages of a wind turbine or wind farm.



Tree planting

If trees or shrubs are to be planted in the vicinity of our gas mains and services, the selection of tree or shrub type and how it's planted MUST be considered carefully. This is to avoid root damage to buried mains or services, and to ensure our subsequent excavations for main repair and maintenance won't damage the trees or shrubs.

Written approval from us MUST be obtained before any tree planting is carried out on a servitude/easement. Any approval we grant to plant trees

The following trees and those of similar size (deciduous or evergreen) MUST NOT be planted within 6m of the centre line of the main: ash, beech, birch, most conifers, elm, maple, lime, horse chestnut, oak, and sycamore. Apple and pear trees are also included in this category.

Dwarf apple stocks may be planted up to 3m of the centre line of the main.



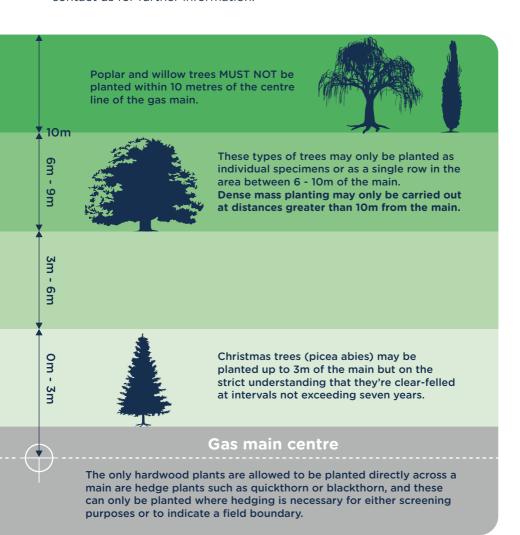
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

Gas main centre

Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, MUST be left clear at all times.

on a servitude/easement will be subject to us retaining the right to remove any tree, which in our opinion may become a danger to our mains in the future.

The written consent to plant trees will state what area may be planted and also the type of tree. The diagram details the specific species and the distances they MUST be planted from gas mains or services. You MUST contact us for further information.



Note: For further guidance, please refer to NJUG 10.



Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf, we may send you a site map of our gas mains and services but your own gas service won't be marked.

The simplest way to understand the location of your gas service is to know where it enters your house.







< Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing.



We provide a free plant location enquiry service and we're always happy to help.



Visit our Dig safely pages on sgn.co.uk



0800 912 1722 *

*All calls are recorded and may be monitored



Our Ref: 30479115 Your Ref: Terminus Road

Thursday, 17 August 2023

Emmanuel Ogedengbe Caversham Bridge House Waterman Place Reading BRK RG1 8DN

Dear Emmanuel Ogedengbe

Thank you for your enquiry dated Thursday, 17 August 2023

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend.

There are high pressure pipelines in the vicinity of your proposed works. We have sent a copy of your correspondence to our local engineer who will be in contact within the next ten working days. For your safety, it is essential that no work or crossing of this high pressure pipeline is carried out until a detailed consultation has taken place.

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or ones owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.

Please note there may be additional gas pipes (low pressure, medium pressure, etc.) shown on the mains record. There should be no mechanical excavations taking place above or near the gas main. You should confirm the exact position of the main using hand dug trial holes.

A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the 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 relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.



For Planning applications – There are high pressure pipelines in the vicinity of your proposed work area. SGN formally object to this planning application until such time as a detail consultation has taken place.

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

Yours sincerely,
The Safety Admin Team

For more information, visit our Dig Safely pages on sgn.co.uk

Tel: 0800 912 1722



Protecting you and your family

Are you planning on carrying out any home improvements such as building a conservatory, an extension, a new pond, decking, concreting, landscaping, fencing or planting trees in your garden? You must make sure you have drawings/maps showing any pipes or cables around your home. To obtain copies of our gas drawings/maps please visit our Dig safely pages on sgn.co.uk and follow the link to our online system.

This service is free of charge.

Our Dig safely page is also where you'll find advice on any protective measures you may need to take before you start work, whether you're planning on doing it yourself or hiring a professional.

Damaging gas pipes is dangerous and could lead to a fire or an explosion. It could also cause large-scale loss of gas supply to the local community and is potentially very expensive.



Responsibilities

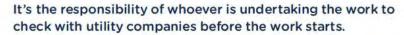
It's the responsibility of whoever is doing the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance.

In practice, this means anyone carrying out work must obtain a copy of any available colour drawings showing the position of buried utilities for reference before and during the project.

Non-recording of service pipes >

Individual service pipes are not normally recorded pm gas network drawings. This is accepted practice and reinforced by guidance given in Design, construction and installation of service pipes – approved code of practice, published by the HSE, and IGE/TD/4 – Gas Services, published by the Institute of Gas Engineers and Managers.

What you need to do when planning a conservatory or house extension, landscaping, fencing or any other groundworks



If you're planning any building or digging work remember that gas pipes, power cables, water pipes and sewers all run underground and could be right beneath your feet. Construction or excavation work can damage underground services or prevent further maintenance.

Remember that obtaining planning permission or a building warrant from your local authority doesn't normally involve consultation with utility companies so you should get in touch with them when you start planning your project. This will help keep everyone safe.

Please visit our **Dig safely** pages on **sgn.co.uk** for more information and our online mapping system.



Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf and you have requested a map from us, your own gas service may not be marked. The simplest way to understand the location of your gas service is to know where it enters your house, as pictured.

Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing above.

If you're unsure and need further help, please contact us and we'll arrange for a Plant Protection officer to contact you.





Any damage, however minor, must be reported to the National Gas Emergency Service

Planting a tree or landscaping your garden

Tree roots can damage utilities.

If you're planting trees or shrubs, make sure you consider the type of plant, root type and their location in relation to buried gas pipes to avoid any damage. We may need access to repair and maintain our pipes and equipment in the future, and we reserve the right to remove any tree or bush if we need to.

What happens if you damage a pipe?

If you damage a gas pipe:

- Call the National Gas Emergency Service on 0800 111 999 immediately
- · DON'T attempt to make repairs yourself
- DON'T handle or attempt to alter the position of the exposed pipe

Damaging a gas pipe can result in:

- Major fire/explosion leading to death or serious injury
- Asphyxiation due to gas exposure leading to death or serious injury
- Loss of gas supply to individuals or communities
- Financial costs to you for repair and remedial work
- · Enforcement action by the HSE

We will recover all reasonable costs incurred in repairing damaged gas pipes.

Delivering gas safely, reliably and efficiently

Your safety is our top priority

We manage the network that distributes natural and green gas to over 5.9 million customers in Scotland and the south of England.

We own and operate 74,000km of gas mains, and associated plant and equipment.

We're committed to delivering gas safely, reliably and efficiently to every one of our customers.

Accidental damage to our pipes could put you or members of the public at risk.



All our
engineers and
contractors carry a
photo ID card with our
company logo on it. Don't be
afraid to check with our
Security team on
0800 015 5170 that the
person on your property
is supposed to
be there.



Meter box

Service entry

Help

If you're planning any work on or around your property and you need more information, you'll find everything you need on our Dig Safely pages.



sgn.co.uk



0800 912 1722

Smell gas? 0800 111 999

Follow these six steps if you smell gas:







DO turn off the gas supply at the meter and make sure any gas appliances are turned off



DO call the National Gas Emergency number on 0800 111 999. Lines are open 24 hours a day, 365 days a year



DON'T smoke or use any naked flames

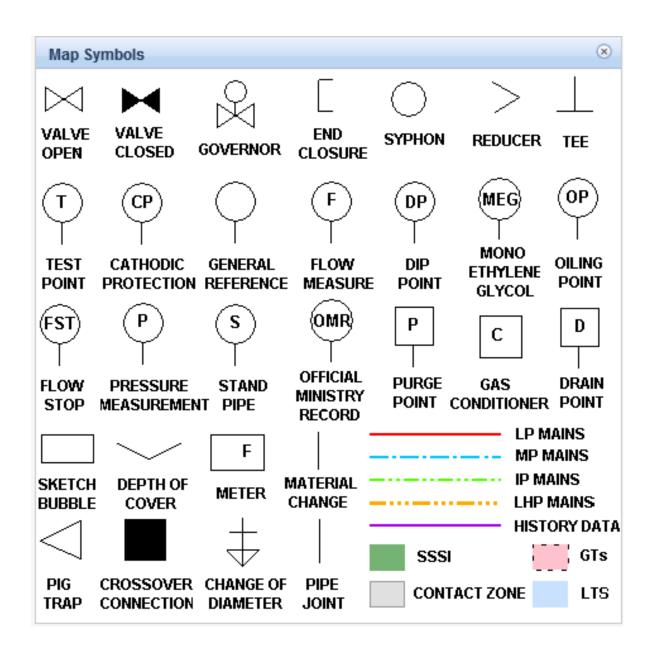


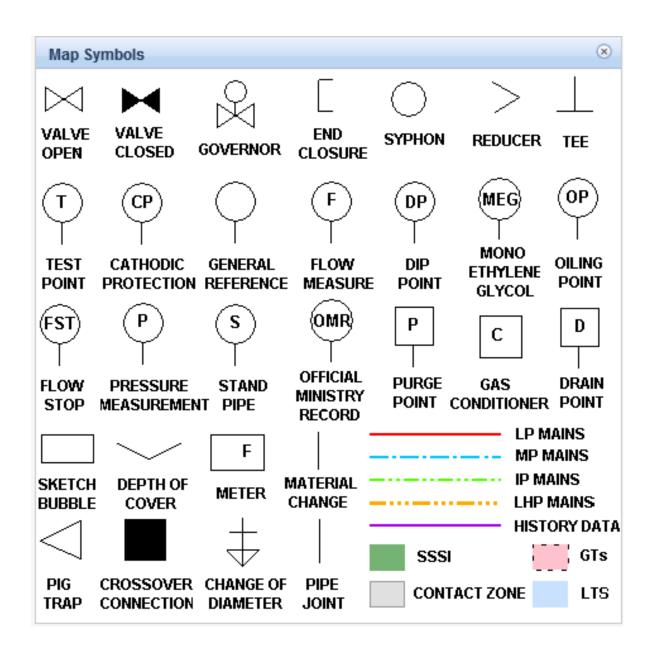
DON'T touch any electrical switches.

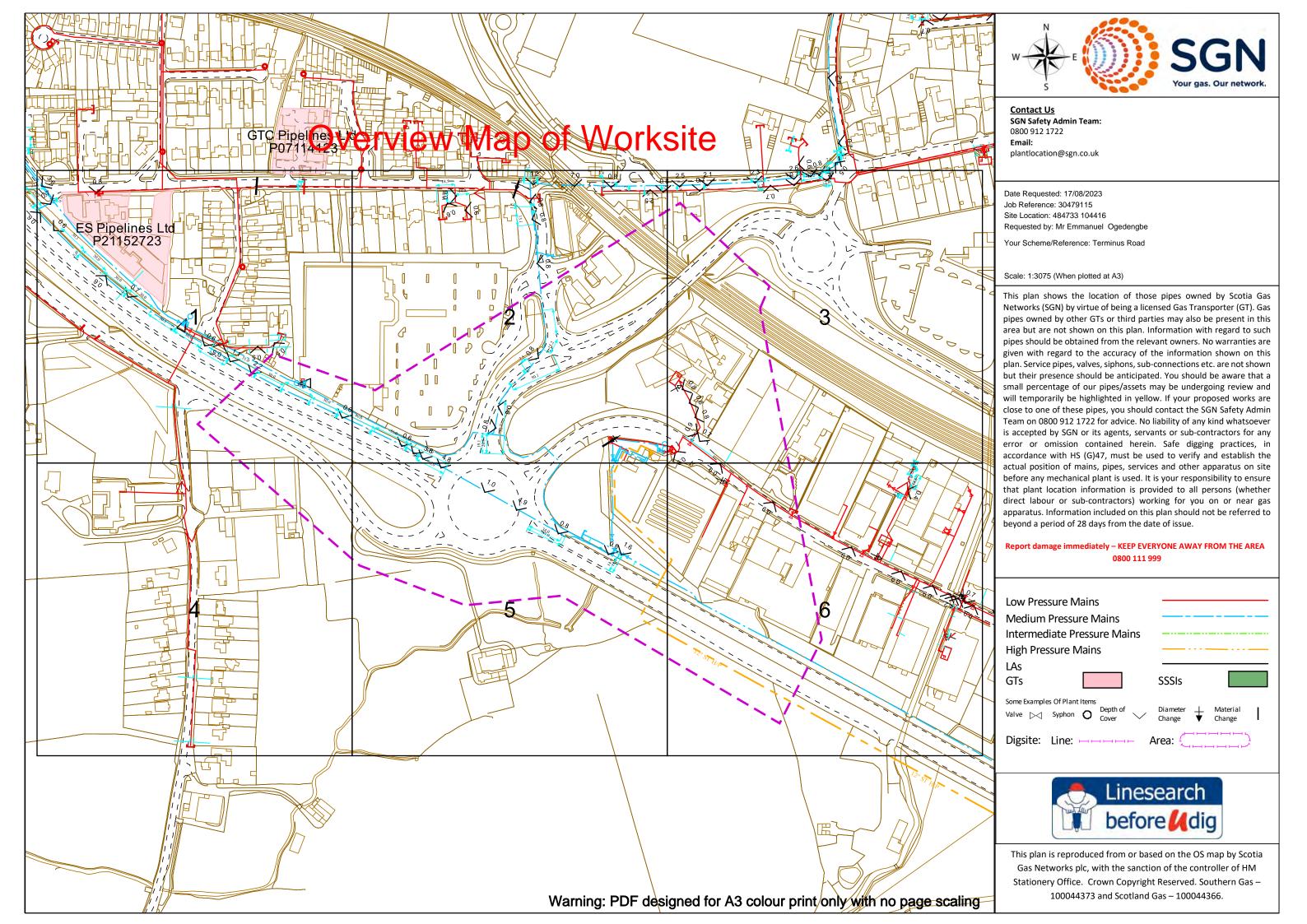
Turning a switch on or off could ignite
a gas leak

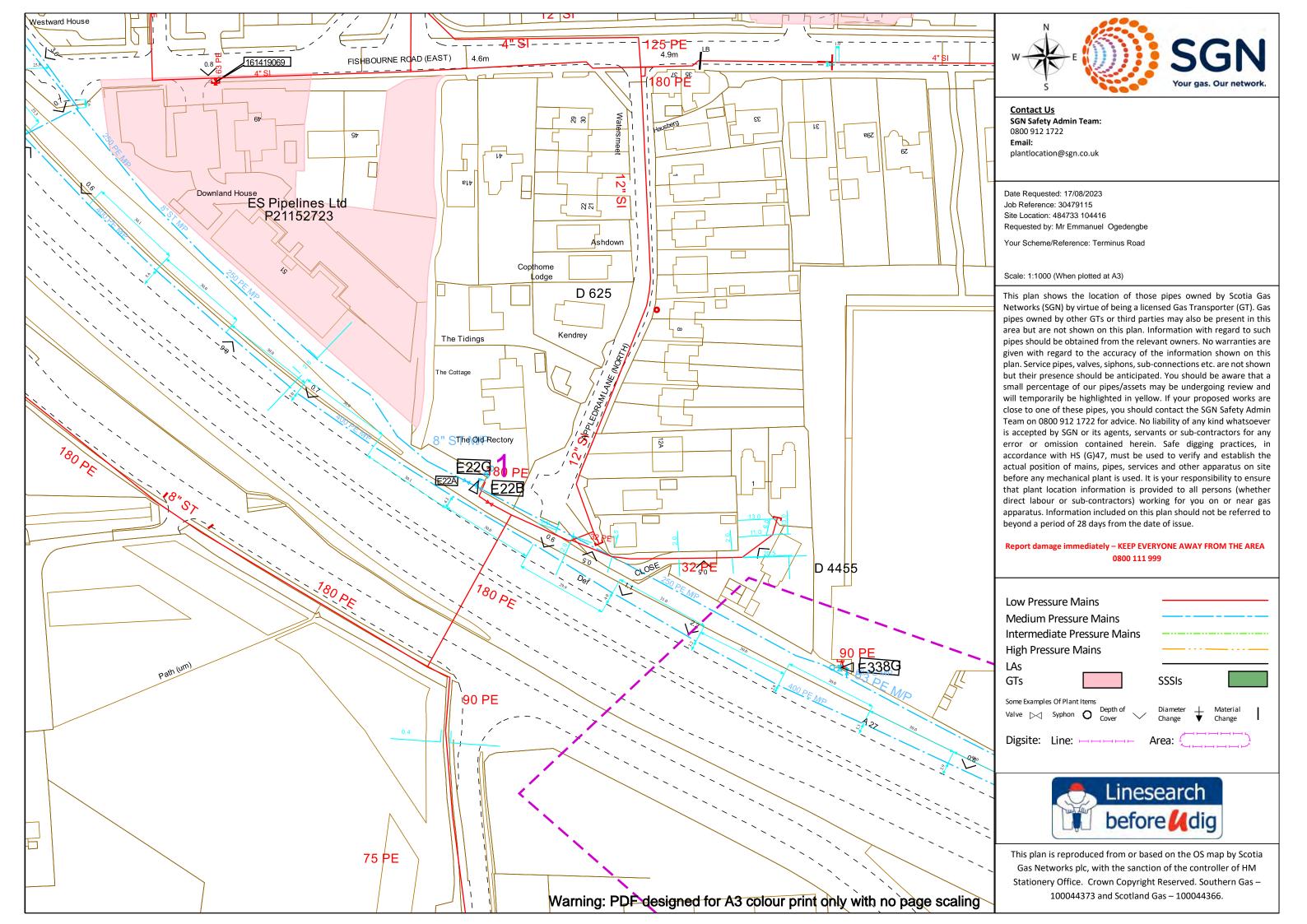


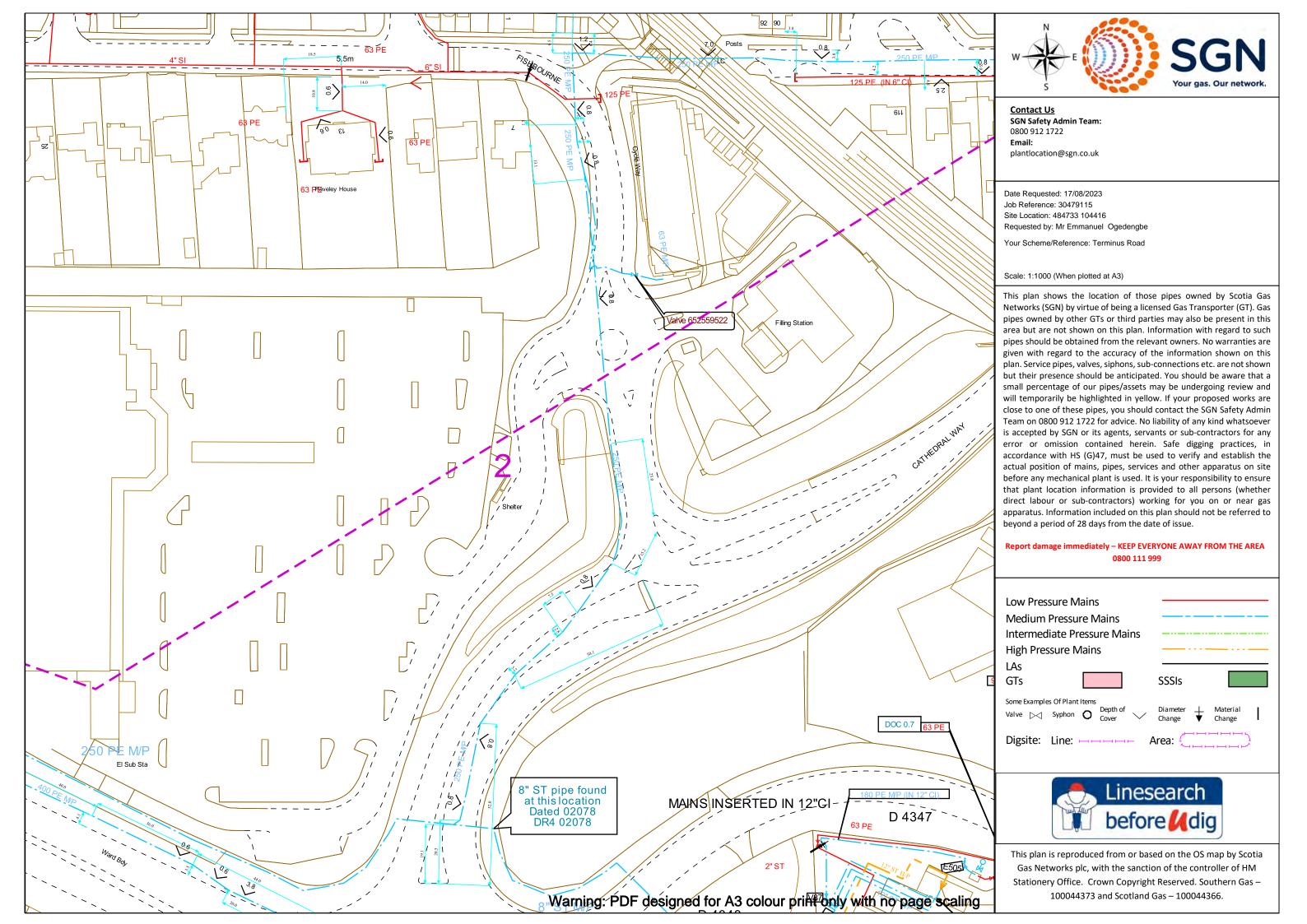
DON'T enter a cellar if you smell gas, even if your gas meter is located in the cellar

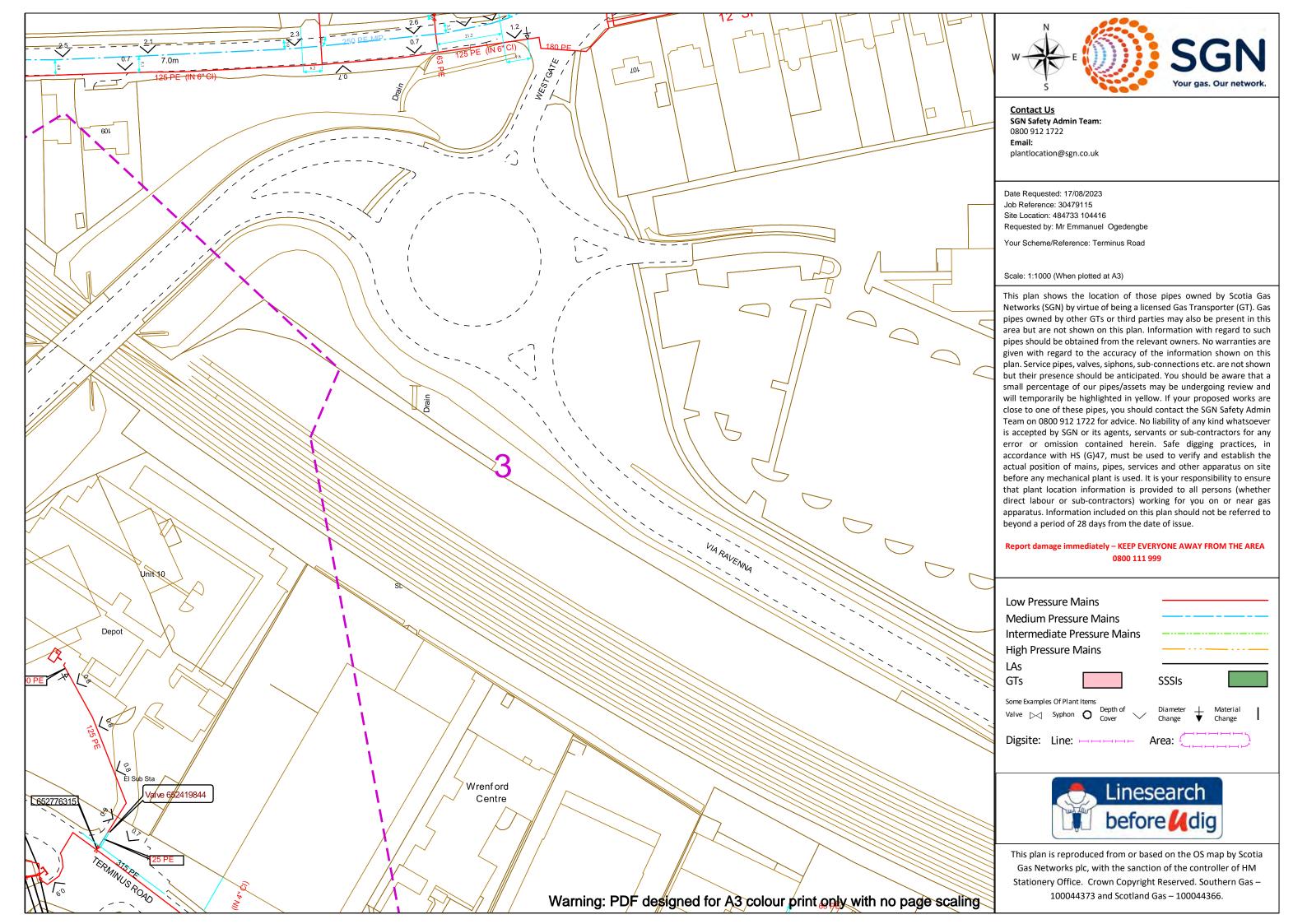


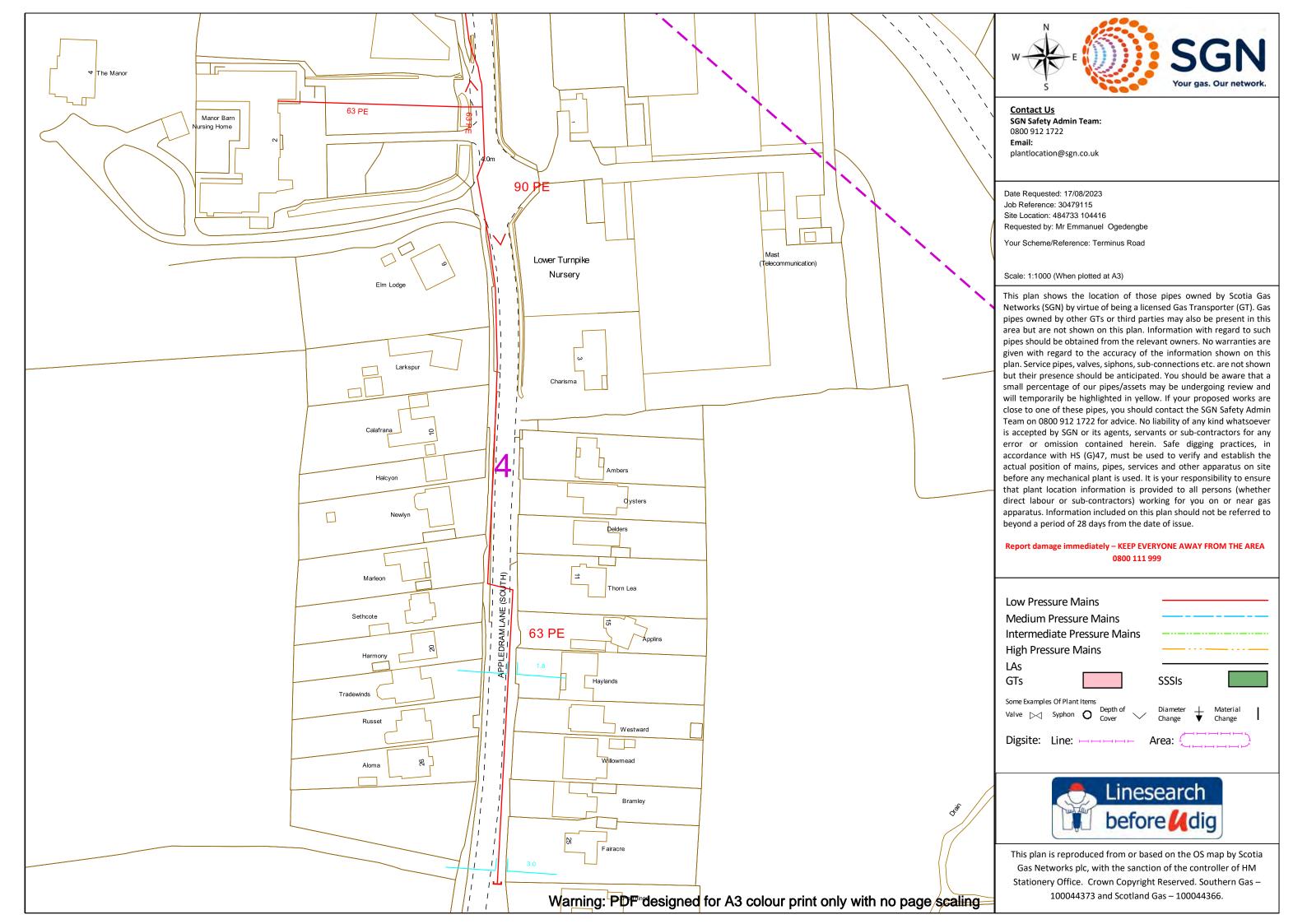


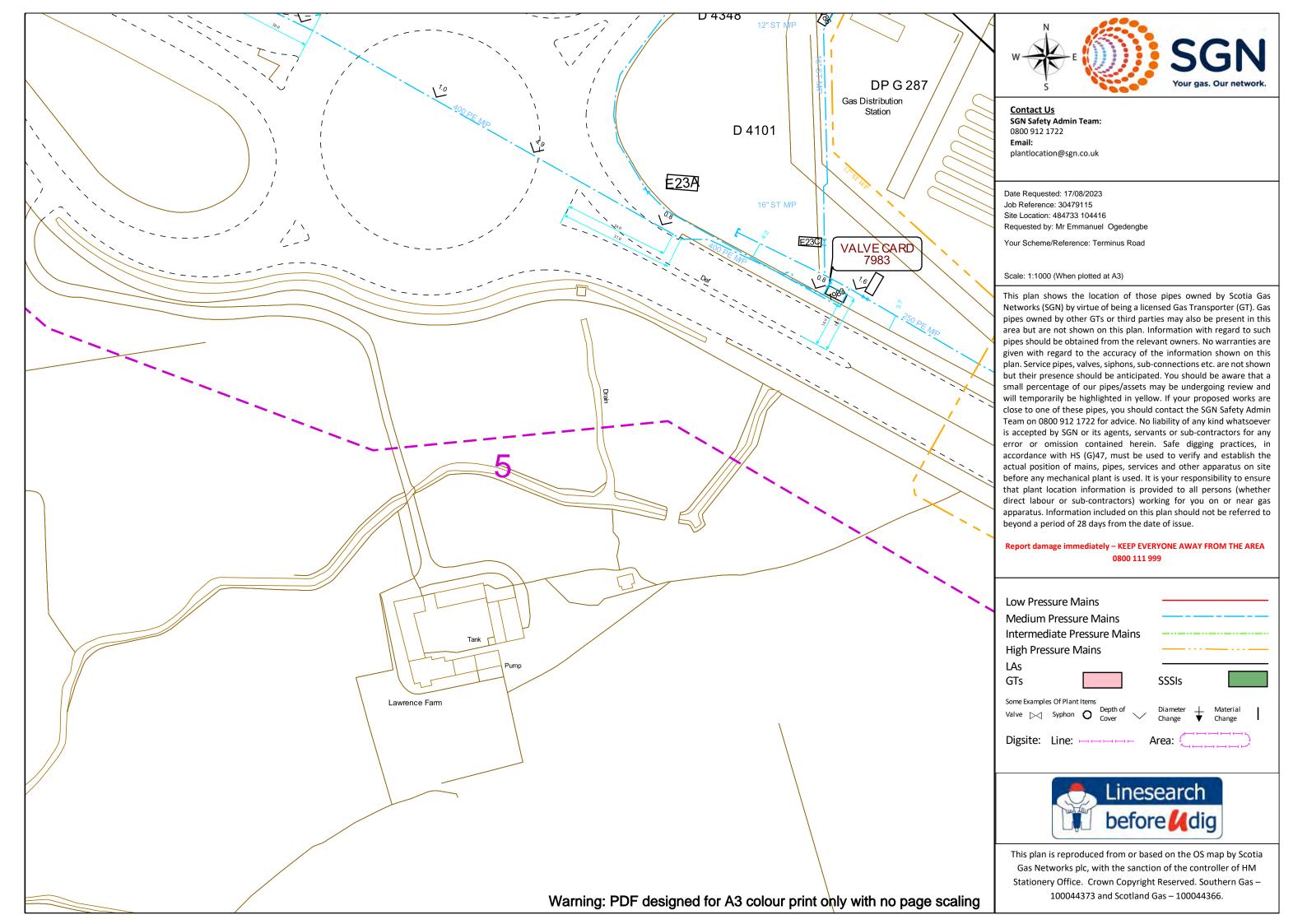


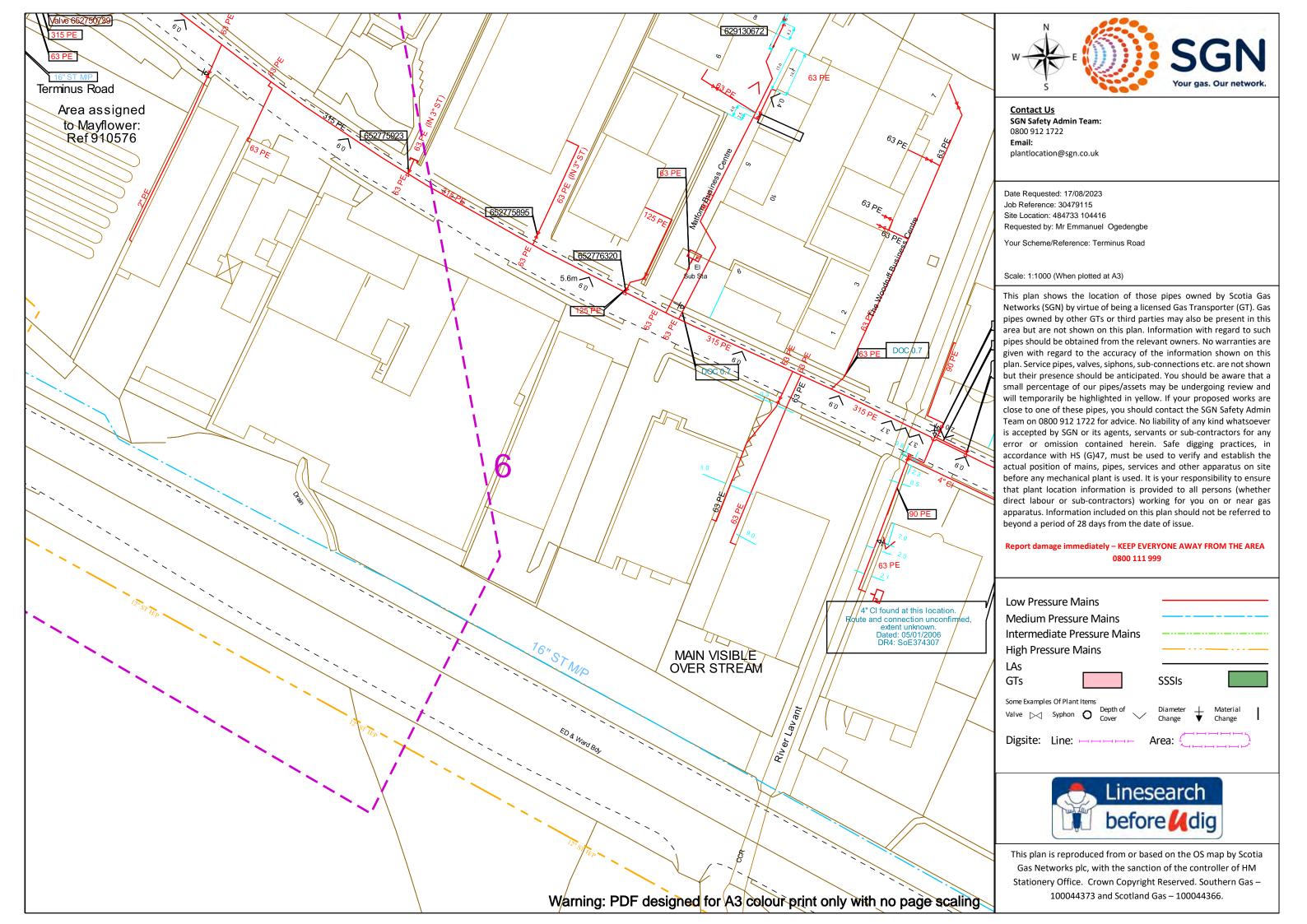














Our Reference: TPES/58386

Mr Emmanuel Ogedengbe Stantec Caversham Bridge House Waterman Place Reading RG1 8DN

Bourne Valley Road Branksome Poole BH12 1YT

toby.james@sgn.co.uk

18 August 2023

Re: Stantec(Terminus Road) - Highways/Construction/realignment - Closest Address: First Floor, Chichester Enterprise Centre, Terminus Rd, Chichester PO19 8TX, UK

LSBUD Reference: 30479115

Dear Mr Emmanuel Ogedengbe,

Thank you for your enquiry dated 11/08/2023, there is a high pressure pipeline in the vicinity of your works. Your proposals would require the exact location of this pipeline and other SGN assets to be located before any work commences, either by electronic detection or by hand excavated trial holes as specified in the attached SW/2 document. These works must be supervised by an SGN representative, please contact Darren Jones on 07815 002308 / darren.jones@sgn.co.uk to arrange a pre-works site visit and any future supervision. Although we will endeavour to respond to your enquiry as soon as possible, due to the current circumstances regarding COVID-19, there may be a small delay in response time from our field staff. We would like to reiterate that no works should be carried out within the vicinity of a high pressure pipeline until consultation with an SGN representative has occurred. We thank you for your patience at this time

Please note that no mechanical excavations are permitted within 3m of the pipeline at any time.

This pipeline is registered with the Health and Safety Executive as a Major Accident Hazard Pipeline.

SGN High Pressure Gas Pipelines in the vicinity of your works			
Pipeline Number	Pressure Regime	Building Proximity Distance (Zone 1)	
P015	HP	3.0	
This table does	s not include SGN's low medium a	and intermediate pressure assets, which may be in the vicinity.	

Building Proximity Distance

The building proximity distance (Zone 1) for the pipeline is shown in the table above for all our high pressure gas pipelines in the vicinity of your works. This should not however be confused with the HSE consultation zones 2 & 3 which will be considerably greater, further guidance of the requirements can be found in HSE Document: PADHI: HSE's Land Use Planning Methodology. Zone 1 is a safety factor with reference to habitable buildings as recommended by IGE TD/1. It is calculated from the diameter, material, wall thickness and pressure of the particular pipeline. Under Pipeline Safety Regulations 1996 this distance is declared to the HSE. Any intrusion within this safety zone will not be taken lightly and any intention to proceed should be accompanied by a risk assessment or provision of other supporting evidence, especially in the event of any legal proceedings at a later date.

Wind Turbines

It is noted that there is a wind turbine in the vicinity of the pipeline, any wind turbine should be 1.5 times the fixed mast height excluding the turbine of the wind turbine. An SGN representative will be contacting you shortly regarding this matter.

Solar Power

No solar panels, equipment or buildings are to be installed within the SGN easement. Solar farms can cause problemswith electrical interaction with our pipelines. Interaction testing will therefore be required before and after theinstallation is energised to note the effects. This will be over a 24/48hr period to compare the results. We may request that you contribute to any permanent equipment needed to monitor these effects over time. The following must beadhered to:

- a. The Promoter of the new work shall advise SGN of the prospective fault current the power loading and operating voltage on the new installation. The nature of the earthing system shall be advised.
- b. Details of the location of the Solar Farm in relation to the SGN pipeline shall be shown on the relevant drawings. All relevant drawings shall be provided for SGN review.
- c. No earthing electrodes or system associated with the new substation installation shall be located within 10m of any SGN pipeline system.
- d. The Promoter of the New Works shall indemnify SGN from any damage caused to any SGN asset by DC leakage current and AC interference.

Cable Crossing

Any cable crossings should cross at 90 degrees, have a minimum clearance of 600mm from the pipeline and installed in non-metallic ducts which extend 3 metres from the pipeline. Any cables running adjacent must be kept greater than 3 metres from the pipeline. Further details are available if you require them. A request to us for any copies could incur a small fee, payable in advance.

Piling / Boreholes

No piling/boreholes will be allowed within 15 metres of a pipeline without an assessment of the vibration levels at the pipeline. The peak particle velocity at the pipeline should be limited to a maximum level of 75 mm/sec. Where the peak particle velocity is predicted to exceed 50 mm/sec, the ground vibration shall be monitored by you and a SGN technician must supervise on site. This must be calculated and provided to SGN in advance of the work. The results of the vibration levels must also be available to SGN at any time. Before works commence method statements must be agreed with SGN.

No piling/boreholes will be allowed within 3 metres of the pipeline.

Vehicle Crossing

Vehicle crossings over the pipeline must be kept to a minimum and must cross at 90 degrees. The crossing will require agreement with SGN and may require design and calculations, as evidence to prove there is minimal added stress to the pipeline. Method statements must be agreed before works commence.

The pipeline is of prime importance to the gas supplies of this area. It is essential that you comply with the restrictions detailed below and in the document SGN/WI/SW/2 in order to protect our plant and equipment and for the safety of your own operatives. A SGN representative must be contacted before any works commence. Further guidance / restrictions are detailed below:

- 1. No mechanical excavation is allowed within 3 metres either side of pipeline.
- 2. No plant or storage of equipment shall be made within any easement strip.
- 3. If any metallic pipes or cables are being laid in proximity to gas pipelines then interference testing will be required, the cost of which to be borne by the promoter of the works. A minimum clearance of 600mm is required.
- 4. All precautions stated in publication SGN/WI/SW/2 (Safe Working in the Vicinity of High Pressure Gas Pipelines) shall be fully complied with in all respects. Acceptance of SGN/WI/SW/2 shall be acknowledged by the responsible site person signing and returning the form Appendix A (back page) to the SGN representative contacted in (7).
- 5. No thrust boring shall take place within 3 meters of the pipeline.
- 6. All planting within the easement strip should comply with 'Notes for Guidance on Tree Proximity'.
- 7. Before commencing work on site you must contact our Pipeline Maintenance Section on the number above at least seven days before work commences. A Southern Gas Networks representative will then contact you to arrange to visit site. Details of working near to high-pressure gas pipelines can then be discussed.
- 8. Pipeline sections that are planned and agreed by SGN to be permanently covered (i.e. by road surface) will require a coating survey. SGN will repair any indicated coating defects free of charge. The survey costs will be borne by the promoter of the works. Prior to any surface cover cathodic protection coupons and reference cells will require installation at no cost to SGN.
- 9. This pipeline is cathodically protected and as such has test cables located in test posts, were these to be lost through this work we would look to you for remedial action at no cost to SGN.
- 10. Intrusive construction methods will require an agreed method statement prior to work starting.
- 11. Any extended period of SGN site supervision may incur charges to you. These will be charged based on visiting times, materials and occurrences. You will be informed when these come into effect and be invoiced direct.
- 12. Any piling or boreholes within 15 metres of the pipeline may require vibration monitoring. No piling or boreholing must take place within 3 metres of the pipeline.

Please ensure these conditions, together with any relevant drawings are forwarded for use by the construction personnel of your works.

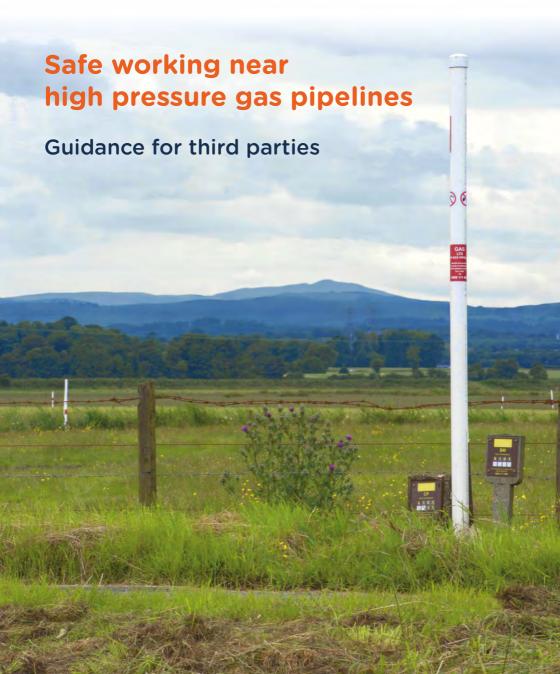
Please note that further restrictions on activities may need to be imposed as a result of a site inspection.

For any further information please contact SGN on the details above.

Yours Sincerely,

Toby James. Team Manager







Legal duties

Pipeline Safety Regulations 1996, regulation 15 states:

'No person shall cause such damage to a pipeline as may give rise to a danger to persons.'

The Health and Safety Executive (HSE) will investigate any incident of damage to a high pressure pipeline. High pressure gas pipelines are defined as Major Accident Hazard Pipelines and it is a criminal offence to damage them.

The HSE guidance document HSG47 'Avoiding danger from underground services' highlights the dangers of working near underground services. The document also places a requirement on all contractors to contact the relevant utility and service providers when work is planned in the vicinity and to adhere to the specific requirement of the pipeline operator when working near pipelines.

Damage to pipelines can result in fatal or severe injury. Adhering to the specific guidance provided by SGN and liaising with SGN's representatives throughout will ensure safe working near pipelines.

Application of SGN/WI/SW/2

Our procedure for safe working in the vicinity of high pressure pipelines is SGN/WI/SW/2, this procedure applies to all excavation work in the vicinity of our high pressure pipelines. The preferred method for excavating in the vicinity of high pressure pipelines is to hand dig. This is to protect all workers in the area from the consequences of any potential excavator strike and to ensure the continued integrity of the pipeline.

There are scenarios in which mechanical excavators can be permitted but approval to use such plant can only be given by one of our Authorising Engineers and is subject to a detailed site-specific risk assessment and method statement detailing each aspect of the works. For any mechanical excavator use in the vicinity of the pipeline, or for the use of any powered hand tools an SGN Permit to Work must be issued.

For any mechanical excavation in the hazard zones an SGN SW/2 Technician **must** be on site to monitor the works at all times. No mechanical excavation is permitted in the hazard zone (see page 4) without the SGN SW/2 Technician being present. Hand excavated trial holes must be completed to prove depth and location of the pipeline prior to any works commencing.

Hazard and danger zones

The hazard and danger zones are established and marked out on site by the SGN SW/2 Technician. These zones are established to protect the pipeline from any unintended damage. Encroaching on these zones can result in damage to a pipeline which can lead to fatal injury.

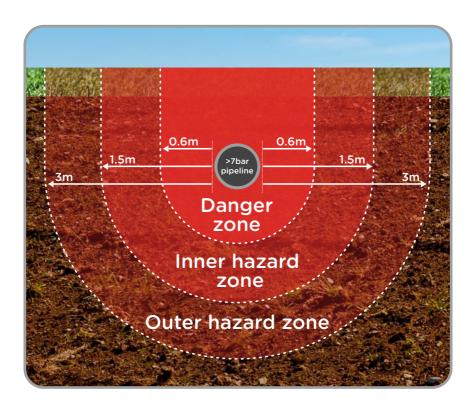


Figure 1. Cross section example hazard and danger zones

The SGN SW/2 Technician will explain these markings and zones to the controller of works (on site) to ensure they are understood prior to planning the works and confirm them to the Nominated Responsible Person/team leader on site before any work begins.

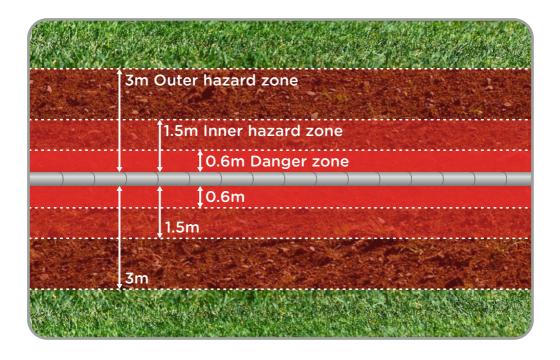


Figure 2. Aerial example of hazard and danger zones

Roles and responsibilities

Who's who and who's responsible for what:

SGN SW/2 Technician

· Controller of the works

Authorising Engineer

Nominated Responsible Person

SGN SW/2 Technician

The SGN SW/2 Technician is SGN's representative and primary point of contact on site for anyone planning work near Major Accident Hazard Pipelines, the SGN SW/2 Technician's responsibilities include:

- · liaising with those undertaking the works
- ensuring all pipeline records and plans have been obtained
- · locating and marking the pipeline
- establishing the 'hazard zones' and 'danger zone'
- monitoring activities in the hazard and danger zones
- stopping the work if the pipeline is at risk

The SGN SW/2 Technician **must** be on site to monitor works during any of the following activities:

- all works requiring a Permit to Work
- excavation of trial holes
- top soil stripping
- use of mechanical excavators in the hazard zones
- use of powered hand tools in the inner hazard zone and danger zone
- use of vacuum excavators in the hazard and danger zones
- use of trenchless technologies in the hazard and danger zones

Authorising Engineer

- an Authorising Engineer is a highly trained and competent engineer, registered on SGN's Safe Control of Operations system, with authority to issue a Permit to Work for activities in proximity to high pressure assets
- reviews risk assessments and method statements for the planned works

Authorising Engineer cont.

- confirms the Nominated Responsible Person fully understands the method statement and Permit to Work
- issues Permit to Work to the Nominated Responsible Person on site
- cannot authorise mechanical excavation in the danger zone
- briefs the Nominated Responsible Person and SGN SW/2 Technician on the permitted methods of working
- must authorise any change to the method statement or Permit to Work

Controller of works

Representative from the principal contractor or main contractor with overall responsibility for the safe delivery of the planned works, the controller of works responsibilities include:

- providing the method statements to SGN for agreement for the planned works
- ensuring all operatives involved understand the method statements
- ensuring all operatives [including machine operators] are suitably competent and experienced for the roles they are carrying out
- ensuring suitable arrangements are in place for supervision and monitoring of the works (in addition to the role of the SGN SW/2 Technician), including works undertaken by sub-contractors
- nominating a suitable Nominated Responsible Person (if a Permit to Work is required)

Nominated Responsible Person

The Nominated Responsible Person is put forward as the representative of the third party, and approved by SGN, to receive the Permit to Work for the planned activities and with the following responsibilities:

- briefing all workers and machine operators on the safe working practices
- must be on site at all times while work is carried out
- must be in direct control of the workers and machine operators
- must ensure the SGN Permit to Work and agreed method statement is complied with
- must ensure SGN's SW/2 procedure is complied with
- does not have any authority to deviate or change the agreed method of working

Fittings and standpipes

High pressure gas pipelines have various fittings and connection points which are particularly vulnerable to damage. These fittings protrude from the pipeline and mechanical excavators **must not** be used within a 1.5m radius of fittings and standpipes.

Fittings and standpipes **must** only be excavated by hand excavation. A Permit to Work is required if **powered hand tools** need to be used.

Hand dug trial holes **must** be undertaken to locate and confirm the position of fittings and standpipes if a mechanical excavator is to be used within the hazard zones. An SGN SW/2 Technician **must** be on site when trial holes are dug or when any excavation work is being undertaken near to fittings and standpipes, even if a Permit to Work has been issued.

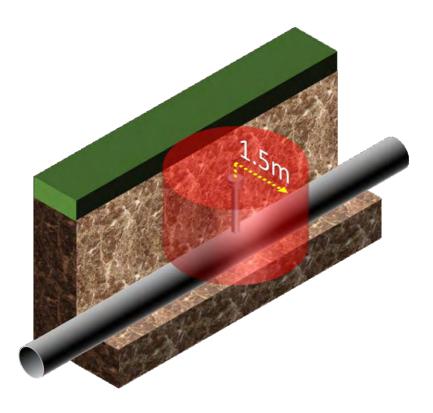


Figure 3. Minimum proximity to fittings

Permits to Work

A Permit to Work is an essential control measure for high risk activities. An SGN Permit to Work is required for the following activities:

- mechanical excavation inside the hazard zones including backfilling
- use of powered hand tools inside the inner hazard zone and danger zone, including vibro-tampers for backfilling
- use of vacuum excavators in the hazard and danger zones
- any 'trenchless techniques' within, through or under the hazard zones
- any 'hot works' ie welding, cutting, burning within the easement
- highways surface removal in the hazard and danger zones

A Permit to Work must be issued:

- on site where the activity will be undertaken
- by an SGN SCO registered Authorising Engineer competent in SW/2 activities
- to the Nominated Responsible Person
- with reference to a site specific method statement

The Authorising Engineer will brief the Nominated Responsible Person and the SGN SW/2 Technician on the Permit to Work and the specific requirements of the works. The SGN SW/2 Technician and Nominated Responsible Person **must** then ensure that all those involved in the works have a clear understanding of their role and responsibilities for the duration of the work.



Pipeline location

The SGN SW/2 Technician will locate and mark the pipeline route and associated zones. Markers will be placed at 3m intervals, at all bends and extend 15m in all directions from the planned excavations site.

The SGN SW/2 Technician will regularly monitor and maintain pipeline markers, especially during the course of longer duration works or works where markers or ground paint are more likely to be disturbed.

If pipeline markers are disturbed the SGN SW/2 Technician **must** be consulted to re-establish the markers in the correct location.

Trial holes

Trial holes are used to confirm the location and depth of a pipeline. If a mechanical excavator is to be used in the hazard zones, trial holes excavations **must** be carried out. All trial holes must be hand excavated. It is the responsibility of the SGN Authorising Engineer to decide how many trial holes are required. All indicated direction and depth changes **must** all be investigated and confirmed with trial holes. All trial holes **must** be monitored by an SGN SW/2 Technician.

If the planned works are outside the hazard zones, trial holes may still be required, it is the decision of the SGN SW/2 Technician to assess the need for trial holes outside the hazard zones.

Site-specific risk assessments

All risk assessments for work near a Major Accident Hazard Pipeline must be site-specific and **must** take into account the following:

- the proximity of the planned works to the pipeline
- the size and types of powered machines
- the activity to be undertaken in close proximity to the pipeline

Risk assessments must be regularly reviewed and amended accordingly if:

- site conditions change
- the activity changes
- the operatives involved or the mechanical plant changes
- the works are of long duration

Specific activities

Powered hand tools

A Permit to Work is required when using powered hand tools in the inner hazard zone or the danger zone.

The permissible proximity to the pipe will be specified by the Authorising Engineer.

Top soil stripping

- SGN SW/2 Technician must be on site
- applies only to work site areas not discrete excavations
- must not be undertaken within 3.0m of fittings/standpipes the position of these must be confirmed by hand excavation
- toothless buckets must be used
- Permit to Work is required if a depth greater than 250mm is to be removed

Mechanical excavation

- no mechanical excavation is permitted within the danger zone, with the exception of top soil stripping
- a Permit to Work is required for all mechanical excavation in the hazard zones
- the SGN SW/2 Technician must be on site when used in the hazard zones
- must not be authorised for use within 1.5m of fittings and standpipes
- must not reach over or across the pipeline
- must not pull towards the pipeline
- must use toothless buckets
- use minimum sized buckets
- a banksman must be used at all times



Mechanical assistance

Mechanical assistance is when an excavator is used to assist in removing previously excavated spoil ie hand digging and placing the material into the excavator bucket. This is to aid in excavating without allowing the excavator to intrusively remove spoil. Mechanical assistance can be permitted subject to the following requirements:

- the SGN SW/2 Technician must be on site to monitor all works
- a Permit to Work is required within the hazard zones
- the machine must not lift over the pipe
- must not be used near fittings and standpipes

Vacuum excavators

Vacuum excavators can be used to assist in excavating near Major Accident Hazard Pipelines subject to the following conditions:

- a Permit to Work is required within the hazard and danger zones
- the position and depth of the pipeline must first be confirmed hand excavated trial holes
- toothed hoses **must not** be used unless authorised by SGN

Backfilling

The SGN SW/2 Technician **must** be present for all backfilling activities. If any backfilling is carried out without the SGN SW/2 Technician present the pipe must be re-excavated to check for damage.

All backfilling operations must be fully detailed in the method statement for the works, specifically the sequence of works and the plant types to be used. Compaction plant can pose a risk to pipeline integrity and as such a minimum of 600mm of hand placed and hand packed material must be in place prior to any plant being introduced. Only lightweight compaction plant can be used initially, until a total of 900mm of evenly compacted material is in place over the pipeline. The proximity distances are measured from the top most part of the pipeline, including any fittings or connections.

A Permit to Work is required for backfilling works that involve any of the following:

- mechanical excavators assisting in the hazard and danger zones
- hand operated vibro-tampers in the inner hazard and danger zones
- vibrating rollers in the hazard and danger zones
- any lifting operations ie lifting of plant or materials into the excavation

Damage to pipelines

Any damage to a high pressure pipeline or the pipeline coating can affect its integrity and can result in immediate or delayed failure, potentially causing severe or fatal injury.

All damage to a pipeline or a pipeline coating, however minor, **must** be reported to SGN via the SGN Gas Control room (0845 073 7953) **immediately.**

All work on site should **stop immediately** and the work area **must** be evacuated. **No one must approach the site and no one must attempt to stop the leak.**

	Contact details
	SGN SW/2 Technician name
	SGN SW/2 Technician phone number
l	

Gas emergency number: 0800 111 999

Booklet no:

Appendix A

Hereby acknowledge receipt of the SGN document 'Safe working near high pressure gas pipelines - Guidance for third parties.'

I/we confirm that we have read and understood the terms of the document and understand that non-compliance may result in damage to the pipeline in contravention of the Pipeline Safety Regulations 1996.

I/we confirm that we will contact SGN prior to any works commencing in the vicinity of a pipeline in order to plan and agree working and restrictions.

I/we hereby undertake to comply with all restrictions and advice provided by SGN prior to, during and following all planned works and to keep SGN advised of any changes, alterations or amendments to the planned works.

Signed (Third party)	Witness signature
Full name of signatory (please print)	Full name of witness (please print)
Address	Address

Place of signing





Safety Advice - Valves



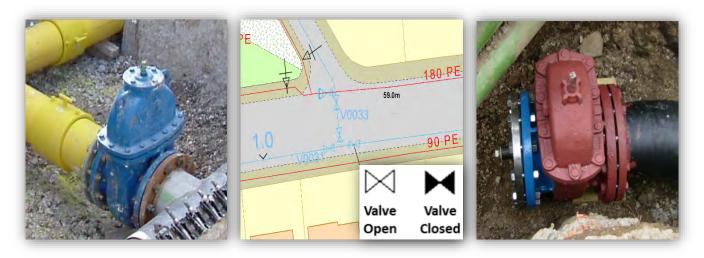
Guidance when undertaking work near gas valves in our network areas

SGN manages the network that distributes gas to 5.8 million homes and businesses across Scotland and the south of England.

Due to a manufacturing issue, we are currently replacing or upgrading certain valve types that are at risk of bolt failure. In extreme cases, this can lead to gas escapes. This is a safety hazard and we have produced this guide to ensure you undertake adequate safety precautions when working near gas valves.

Identifying gas valves

The images below are an illustration of typical gas valves. Please note, valves come in various colours, shapes and sizes, and you may come across a valve that looks different to those found in the images.



What should you do?

When planning to work in our network areas, please observe the following points:

- **1.** You must contact us before starting any work activity within **3.0m** of a gas valve identified on our maps.
- **2.** If an unexpected gas valve is exposed you must immediately stop excavation works and report this to us.
- **3.** To protect yourself against the risks associated with exposing a valve, we advise that you contact us when in doubt.

Contact details

If you require further information or need assistance please contact us:

Safety Admin Team: 0800 912 1722

plantlocation@sgn.co.uk

Valve enquiries will be forwarded to a local engineer who will provide further safety information.

Safety Advice - Valves



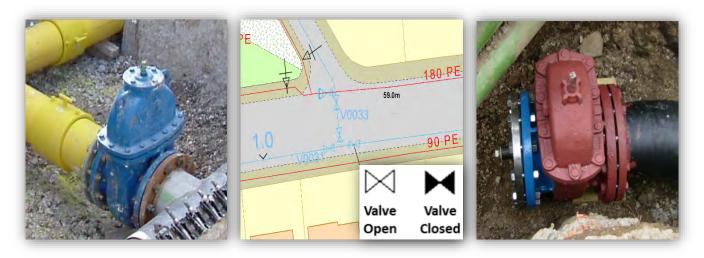
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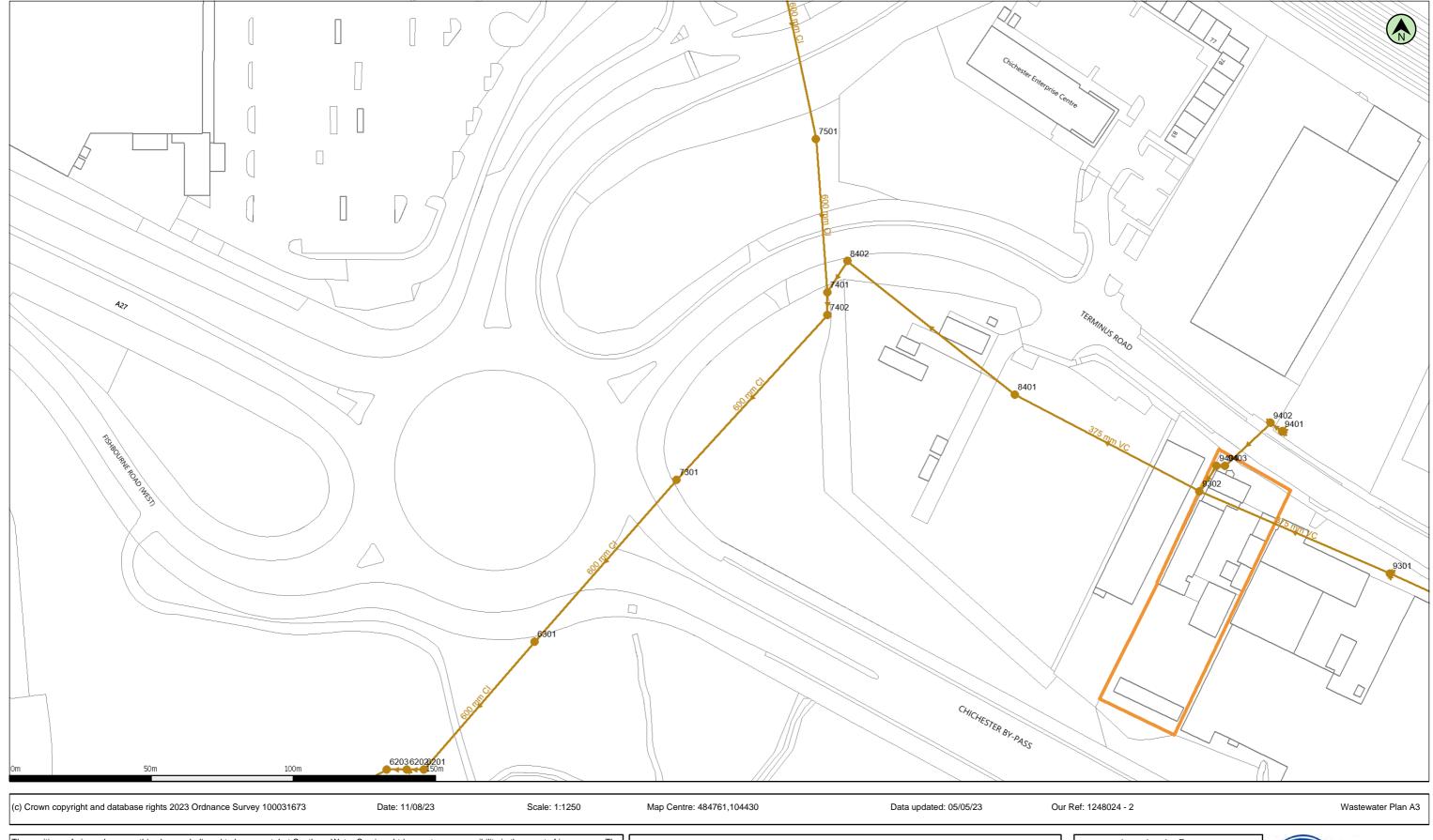
Contact details

If you require further information or need assistance please contact us:

Safety Admin Team: 0800 912 1722

plantlocation@sgn.co.uk

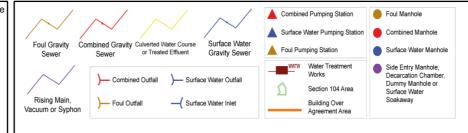
Valve enquiries will be forwarded to a local engineer who will provide further safety information.



The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2023 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

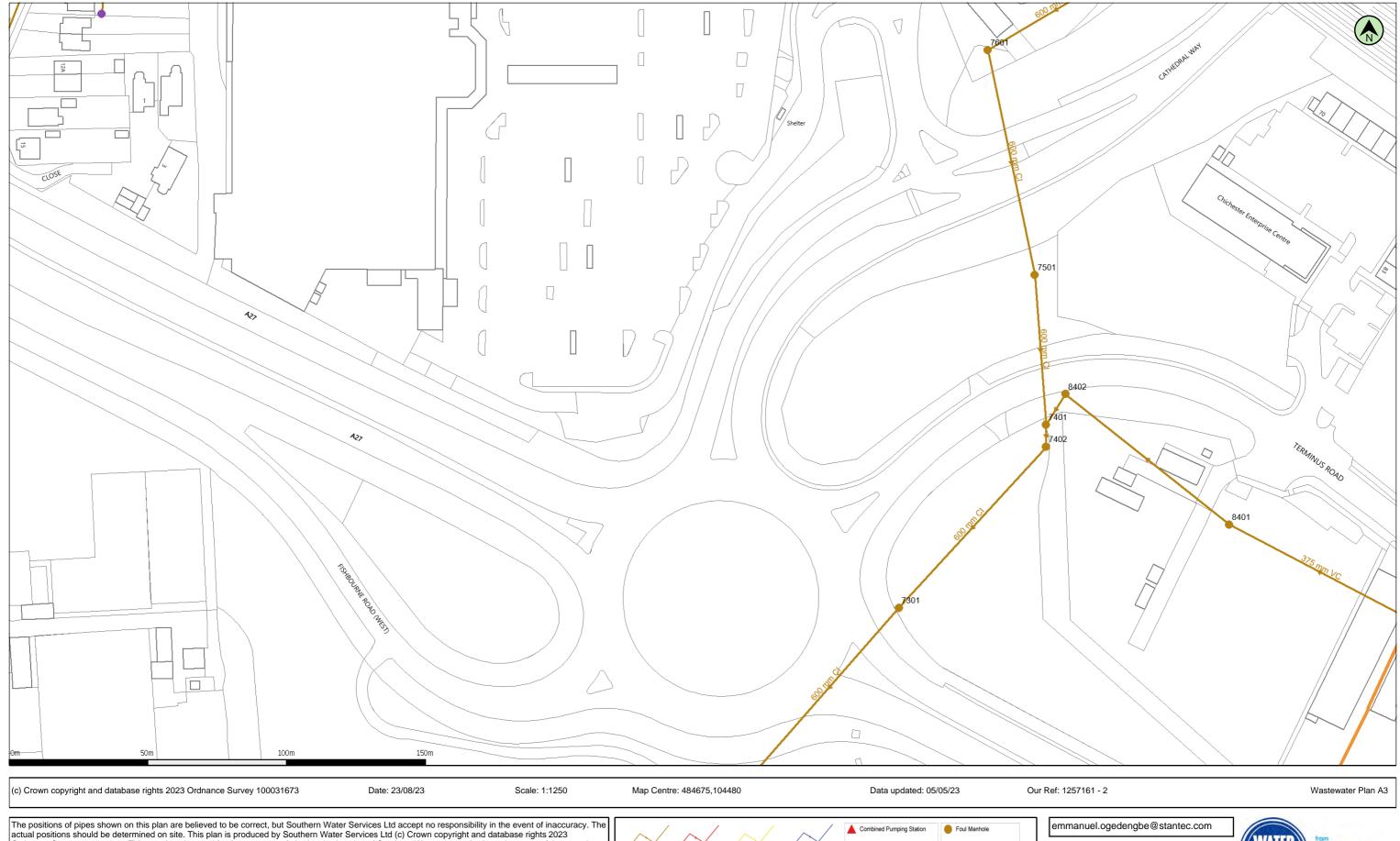




Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Inver
6201	F	4.40	2.11	
6202	F	4.28	2.03	
6203	F	4.14	1.99	
6301	F	4.57	2.29	
7301	F	5.10	2.51	
7401	F	6.07	2.77	
7402	F	6.00	2.76	
7501	F	6.10	2.87	
8401	F	5.54	3.39	
8402	F	5.81	3.11	
9301	F	5.49	3.61	
9302	F	5.24	3.46	
9401	F	5.76	3.93	
9402	F	5.69	3.87	
9403	F	5.37	3.63	
9404	F	5.33	3.61	
3404		5.55	3.01	

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert

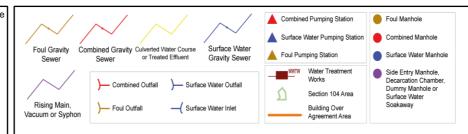
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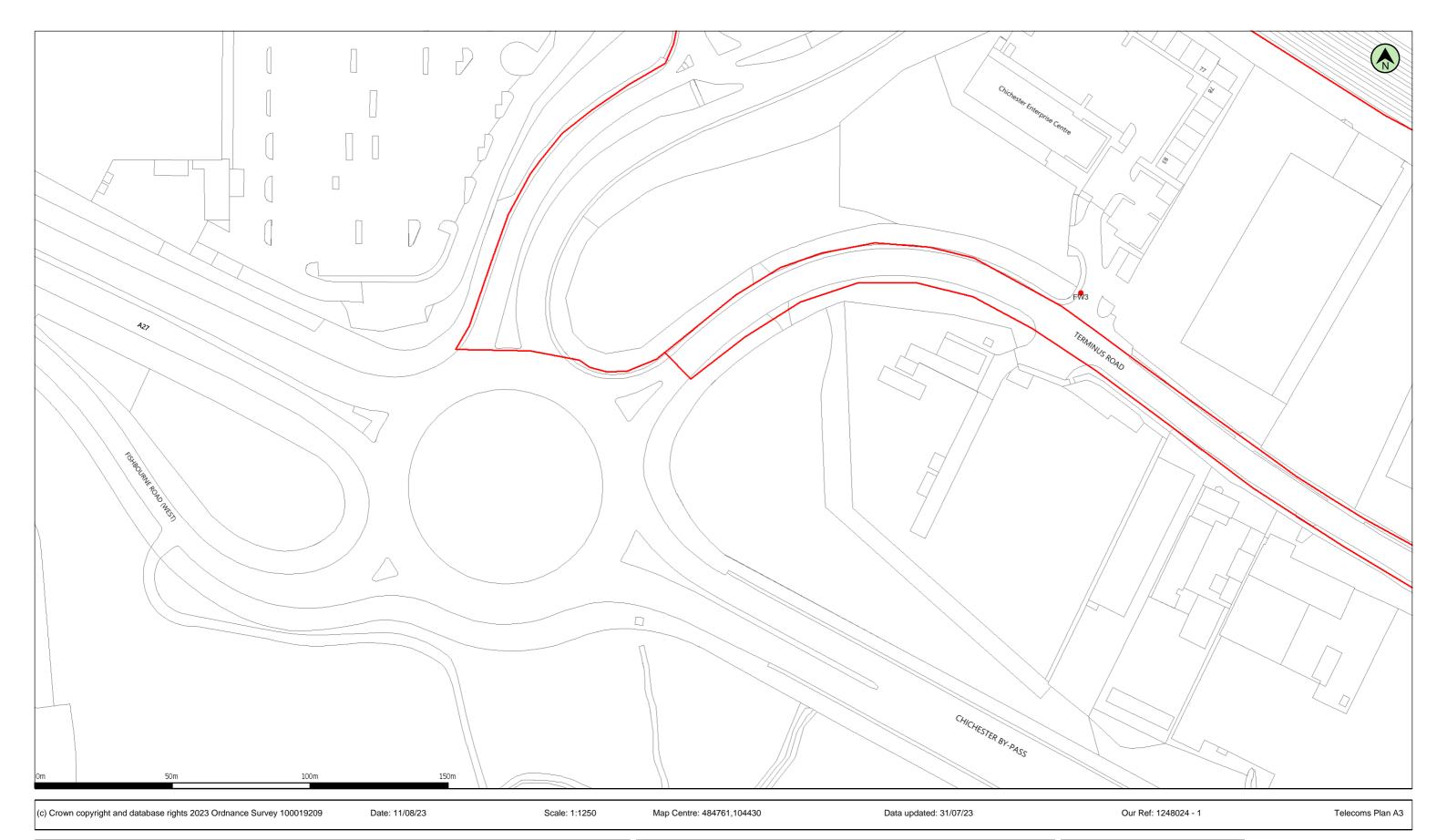




Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Inver
7301	F	5.10	2.51	
7401	F	6.07	2.77	
7402	F	6.00	2.76	
7501	F	6.10	2.87	
7601	F	6.34	3.17	
8401	F	5.54	3.39	
8402	F	5.81	3.11	
3.02		0.01	0	
			1	
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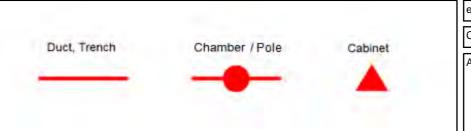
Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert



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.

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 2023 Ordnance Survey 100019209.

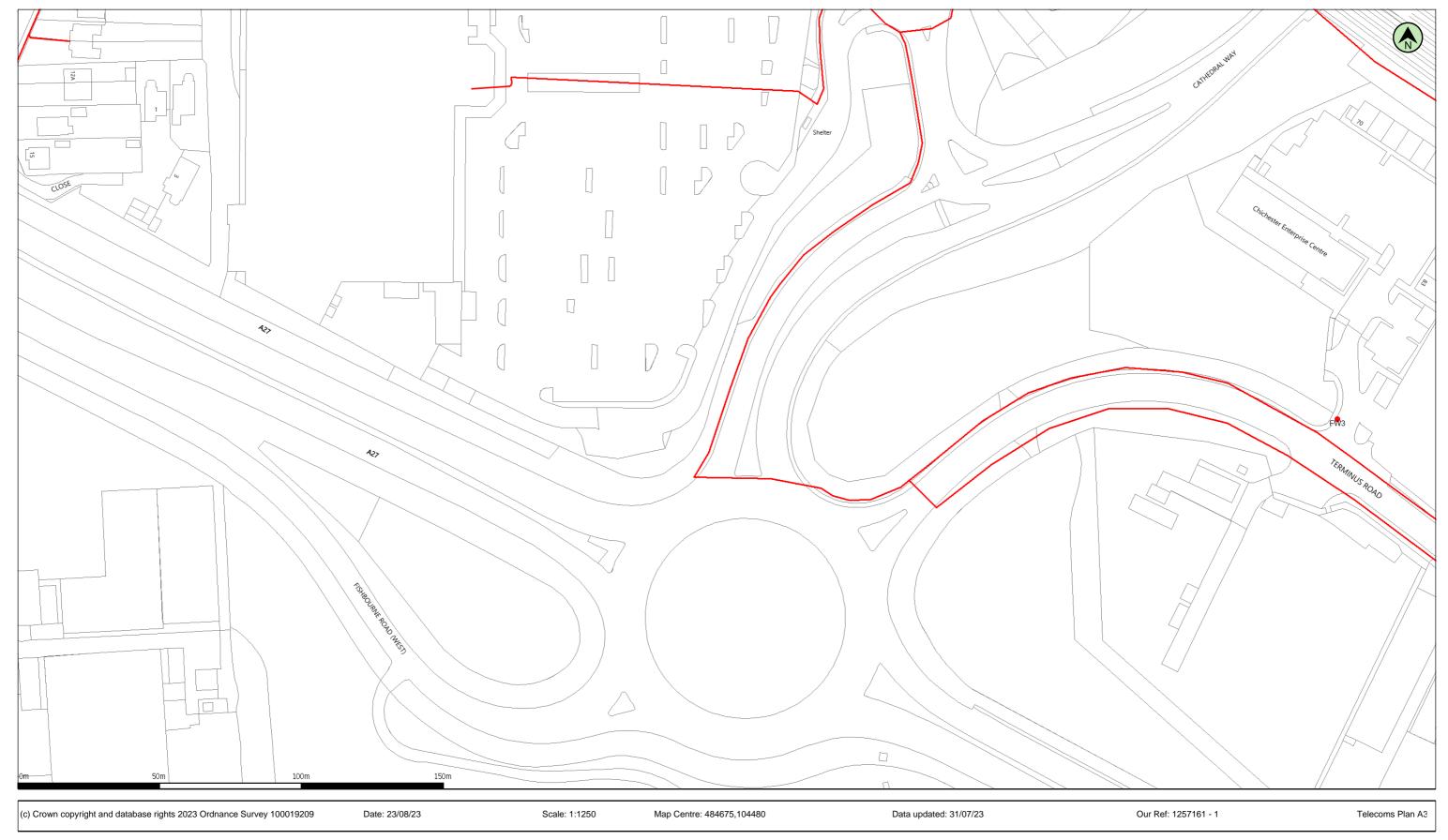


emmanuel.ogedengbe@stantec.com

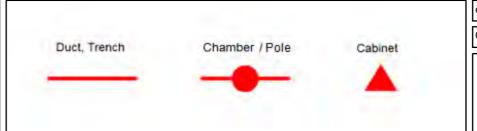
C2 Plans

A27 Fishbourne rbt





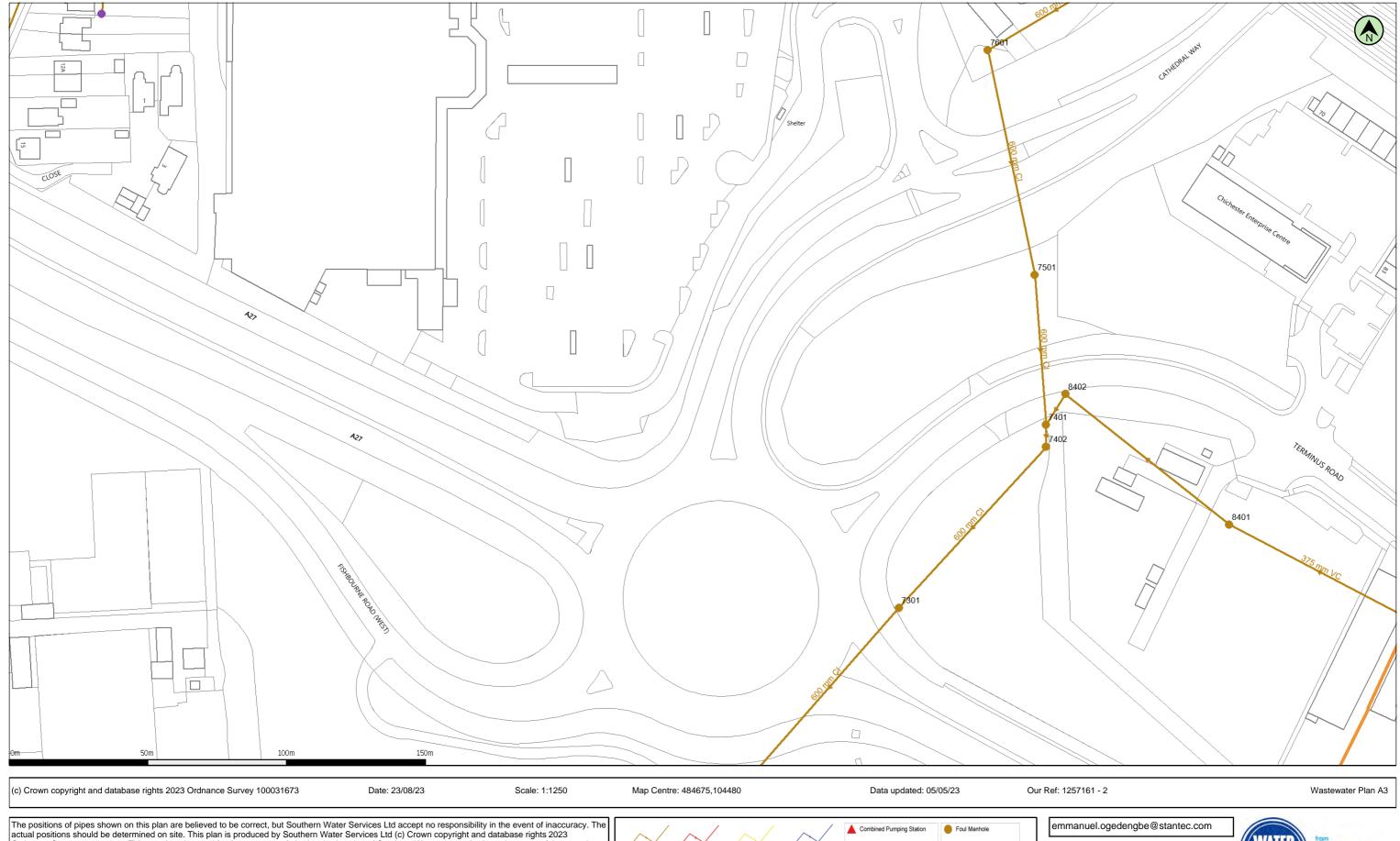
Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have 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 2023 Ordnance Survey 100019209.



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Cathedral Way

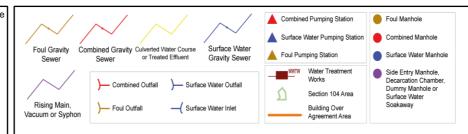




The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2023 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.





Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Inver
7301	F	5.10	2.51	
7401	F	6.07	2.77	
7402	F	6.00	2.76	
7501	F	6.10	2.87	
7601	F	6.34	3.17	
8401	F	5.54	3.39	
8402	F	5.81	3.11	
3.02		0.01	0	
			1	
				-

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert

Ogedengbe, Emmanuel

From: Jackie Boxall <Jackie.Boxall@westsussex.gov.uk> on behalf of WSCC Highways <WSCCHighways@westsussex.gov.uk>

Sent: 18 August 2023 13:25
To: Ogedengbe, Emmanuel

Subject: Enquiry 3240086 Cathedral Way

Attachments: Map of wscc assets.png

Good Afternoon Mr Ogedengbe

Thank you for your enquiry regarding drainage records for the above. Please find attached of all WSCC assets. The Roundabout is not maintained by WSCC but is maintained by National Highways (formely Highways England)

Kind Regards

Jackie

Jackie Boxall
Customer Service Officer
Highways Transport & Planning
West Sussex County Council
CALL EMEMAIL

Location: Highways Customer Service Hub, Durban House, Durban Road, Bognor Regis, West Sussex, PO22 9RE

| External: 01243 642105 | E-mail: WSCCHighways@westsussex.gov.uk

Report a problem with a road or pavement or raise a highways related enquiry

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Ogedengbe, Emmanuel

Kevin Macknay < kevin.macknay@westsussex.gov.uk> From:

21 August 2023 09:24 Sent: To: Ogedengbe, Emmanuel

Jackie Boxall Cc:

Subject: RE: Enquiry 3240086 Cathedral Way

Emmanuel,

Further to your recent enquiry.

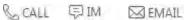
The blue dots are our highway gullies. The black squares (with colour in them) are highway manholes / soakaways. The colours relate to silt levels.

Hope this helps.

Regards,

Kevin Macknay

Drainage and Flooding Lead Professional Highways, Transport and Planning Place Services West Sussex County Council







Location: West Sussex County Council, 1st Floor, Northleigh, County Hall, Chichester PO19 1RQ **Contact: Internal:** 26429 | **External:** +44 (0)330 222 6429 | **Mobile:** +44 (0)7540 641819

E-mail: kevin.macknay@westsussex.gov.uk

Report a problem with a road or pavement or raise a highways related enquiry

Follow us at



From: Jackie Boxall < Jackie.Boxall@westsussex.gov.uk> **Sent:** 21 August 2023 09:06

To: Kevin Macknay < kevin.macknay@westsussex.gov.uk >

Subject: FW: Enquiry 3240086 Cathedral Way

Good Morning Kevin

Please see email below. Could you answer the customers enquiry please.

Kind Regards

Jackie

From: Ogedengbe, Emmanuel < Emmanuel.Ogedengbe@stantec.com

Sent: 18 August 2023 14:32

To: WSCC Highways < WSCCHighways@westsussex.gov.uk >

Subject: RE: Enquiry 3240086 Cathedral Way

EXTERNAL

Good Afternoon Jackie

Thank you for your email regarding the drainage records with the diagram attached. There is no key provided to indicate the blue and red circles, so I am unable to determine what the blue circle and red circle are. I would assume they are drainage points. If you can confirm this, I would be grateful with your assistance.

Kind Regards

Emmanuel Ogedengbe

Assistant Engineer

Caversham Bridge House, Waterman Place Reading RG1 8DN Direct: +44 118 952 0358



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From: Jackie Boxall < <u>Jackie.Boxall@westsussex.gov.uk</u> > On Behalf Of WSCC Highways

Sent: Friday, August 18, 2023 1:25 PM

To: Ogedengbe, Emmanuel < Emmanuel. Ogedengbe@stantec.com>

Subject: Enquiry 3240086 Cathedral Way

Good Afternoon Mr Ogedengbe

Thank you for your enquiry regarding drainage records for the above. Please find attached of all WSCC assets. The Roundabout is not maintained by WSCC but is maintained by National Highways (formely Highways England)

Kind Regards

Jackie

Jackie Boxall Customer Service Officer Highways Transport & Planning West Sussex County Council CALL MEMAIL

Location: Highways Customer Service Hub, Durban House, Durban Road, Bognor Regis, West Sussex, PO22 9RE

External: 01243 642105 E-mail: WSCCHighways@westsussex.gov.uk

Report a problem with a road or pavement or raise a highways related enquiry



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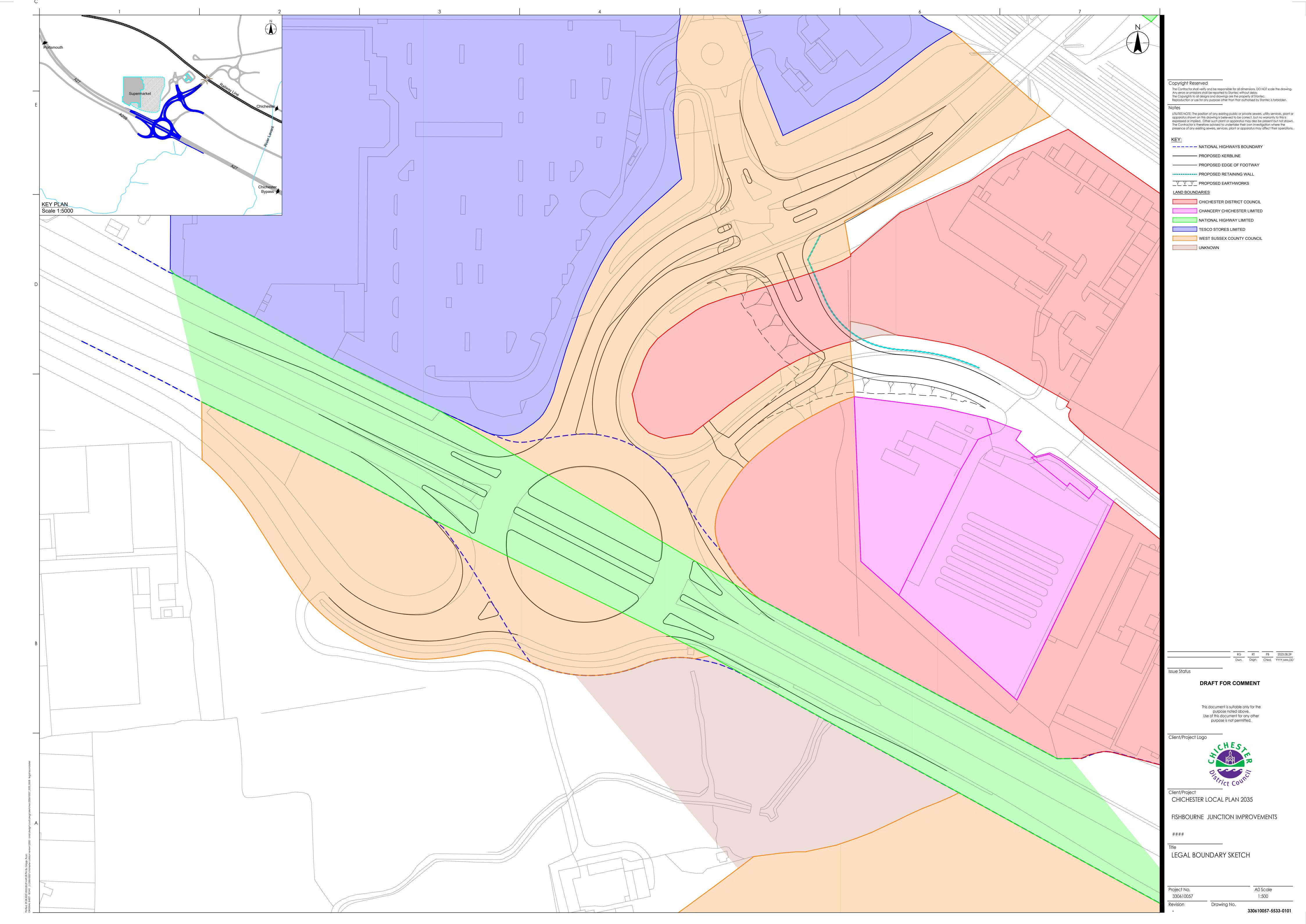
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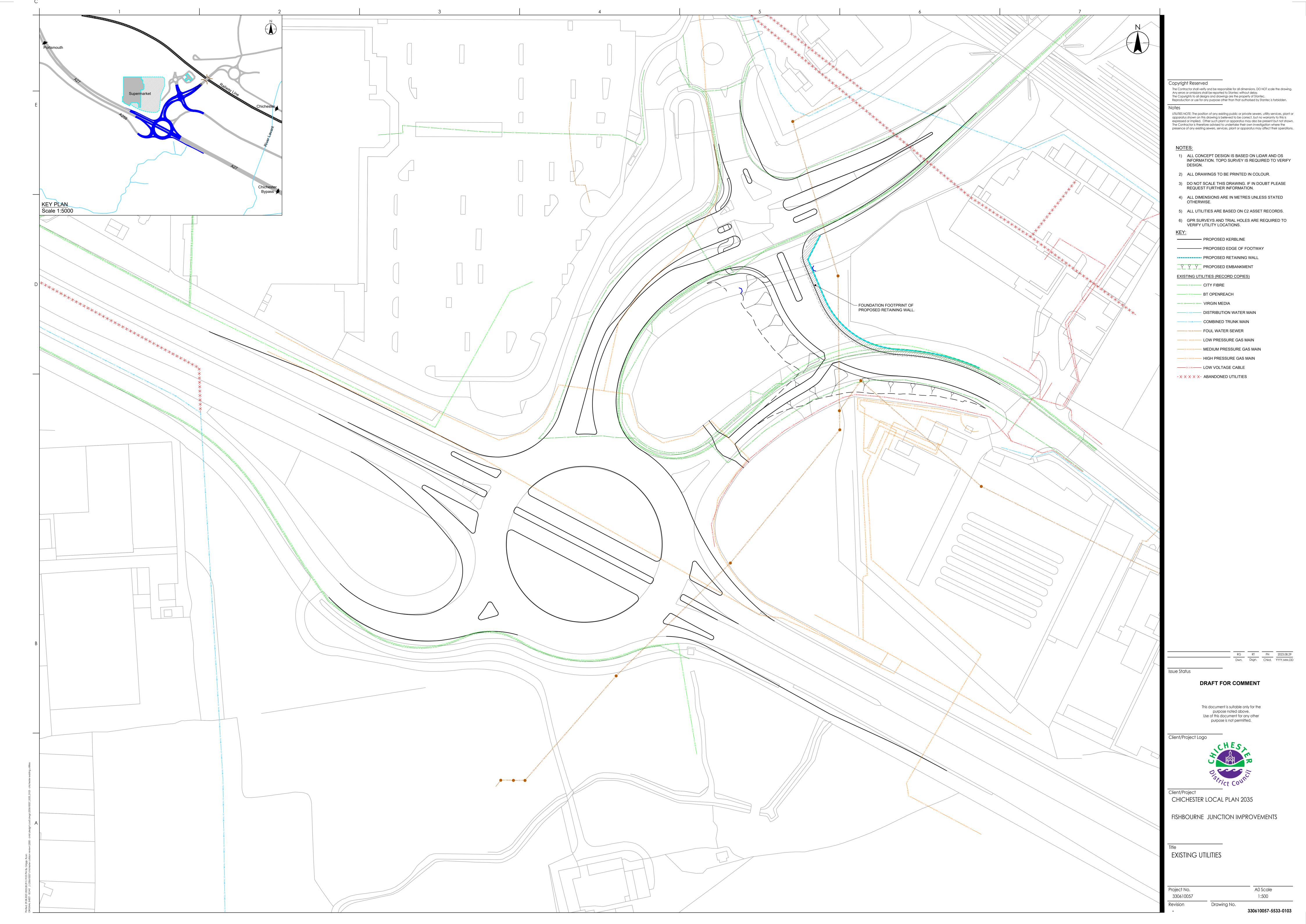
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Appendix C Existing Constraints Plans

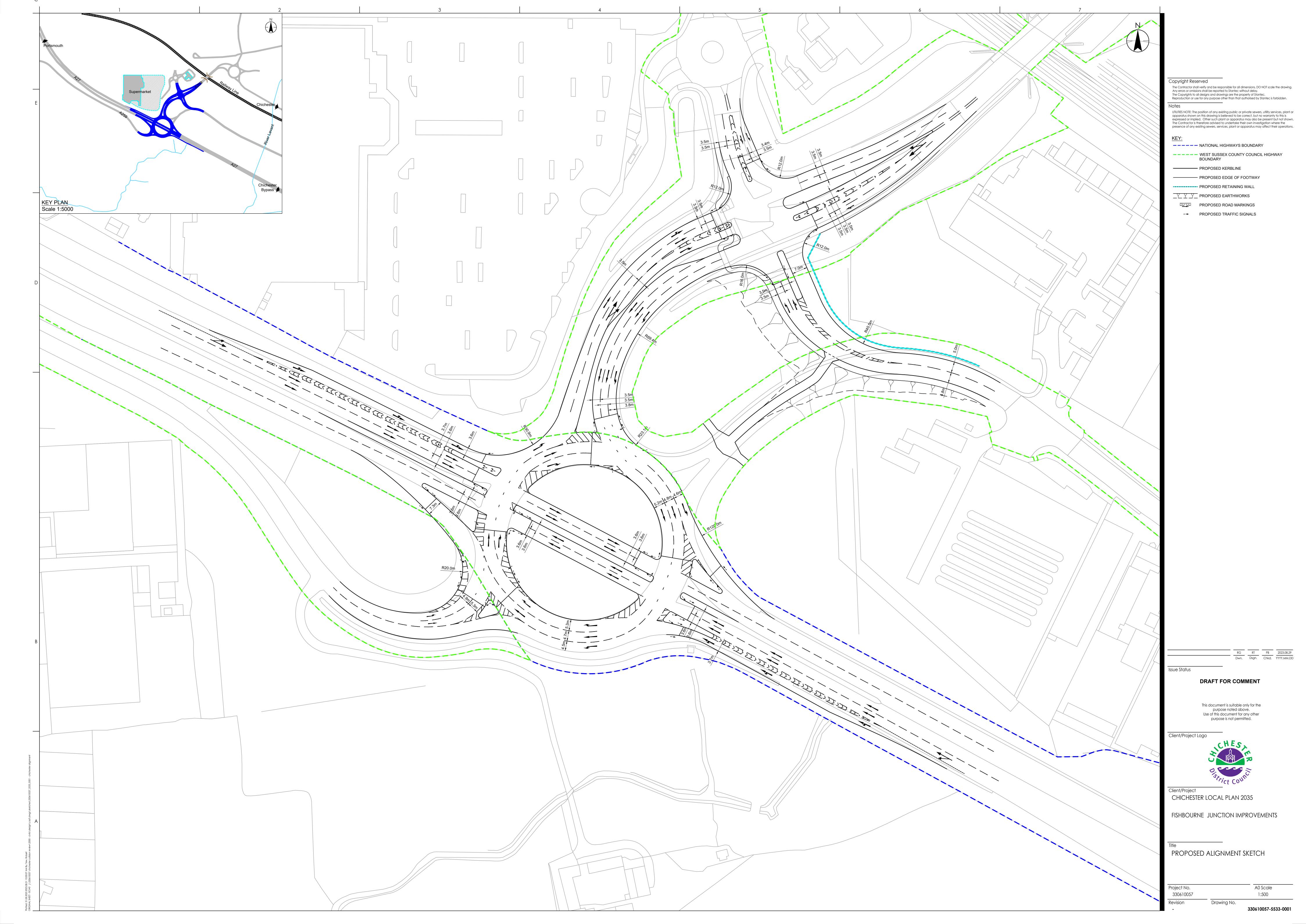


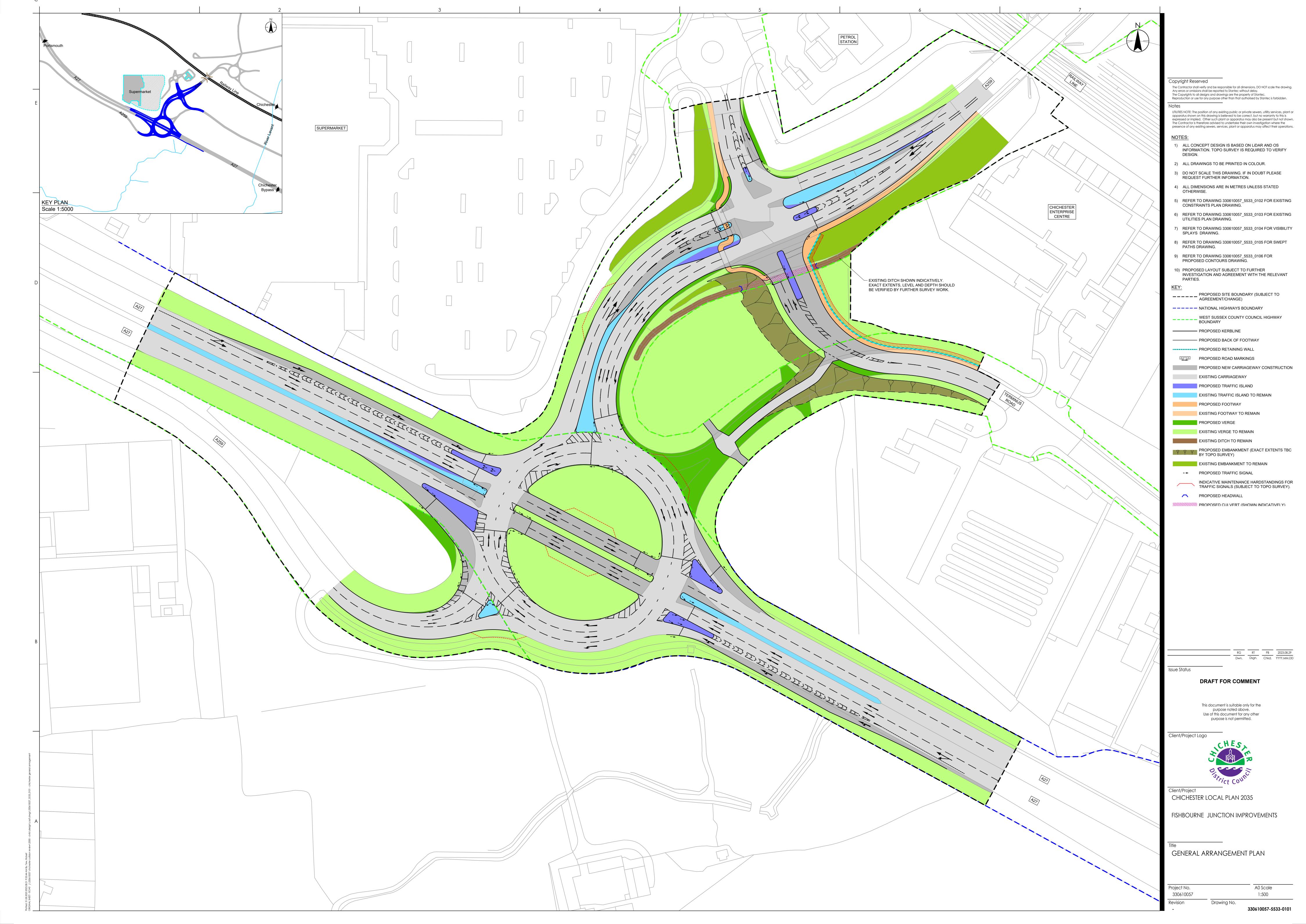


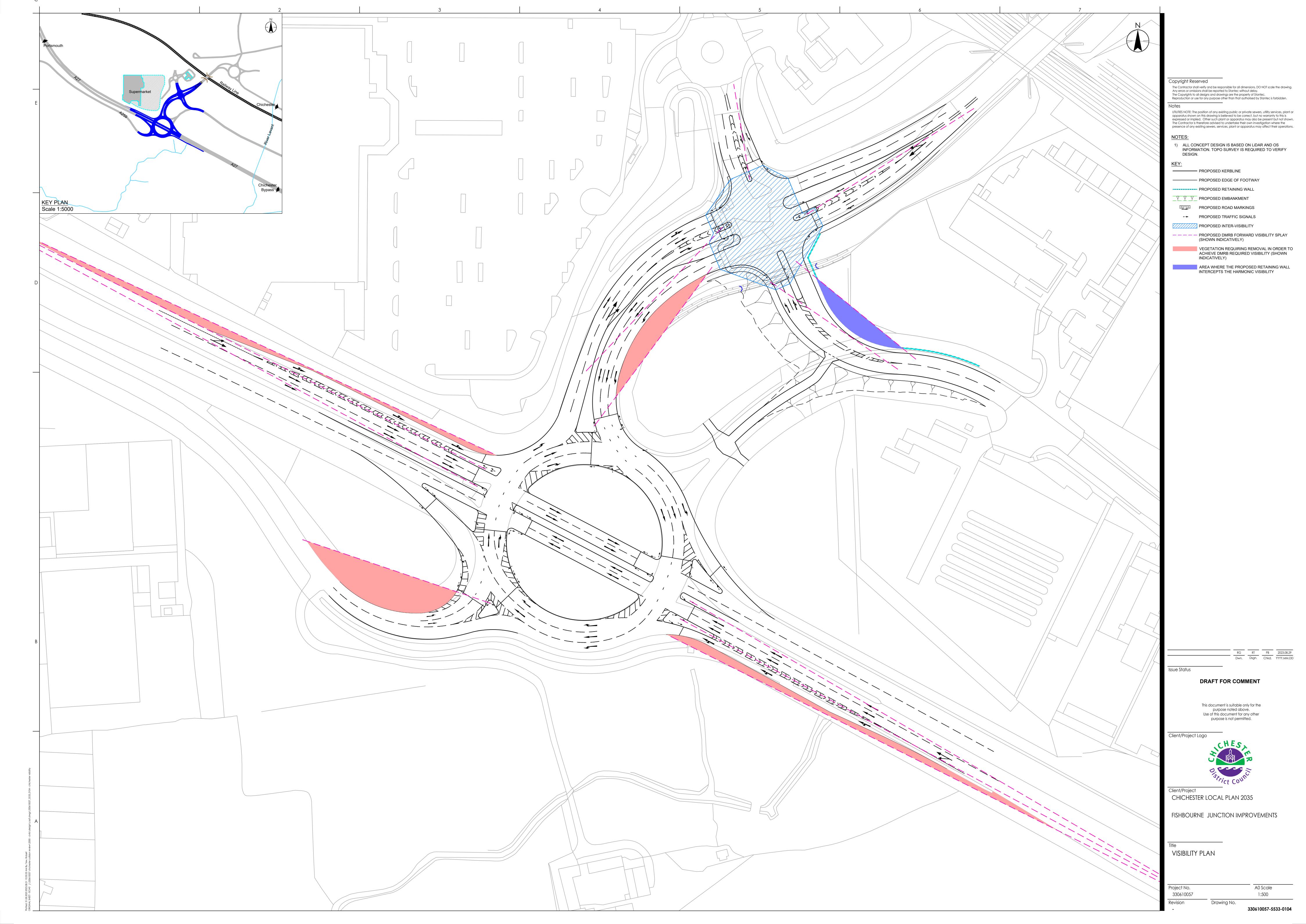


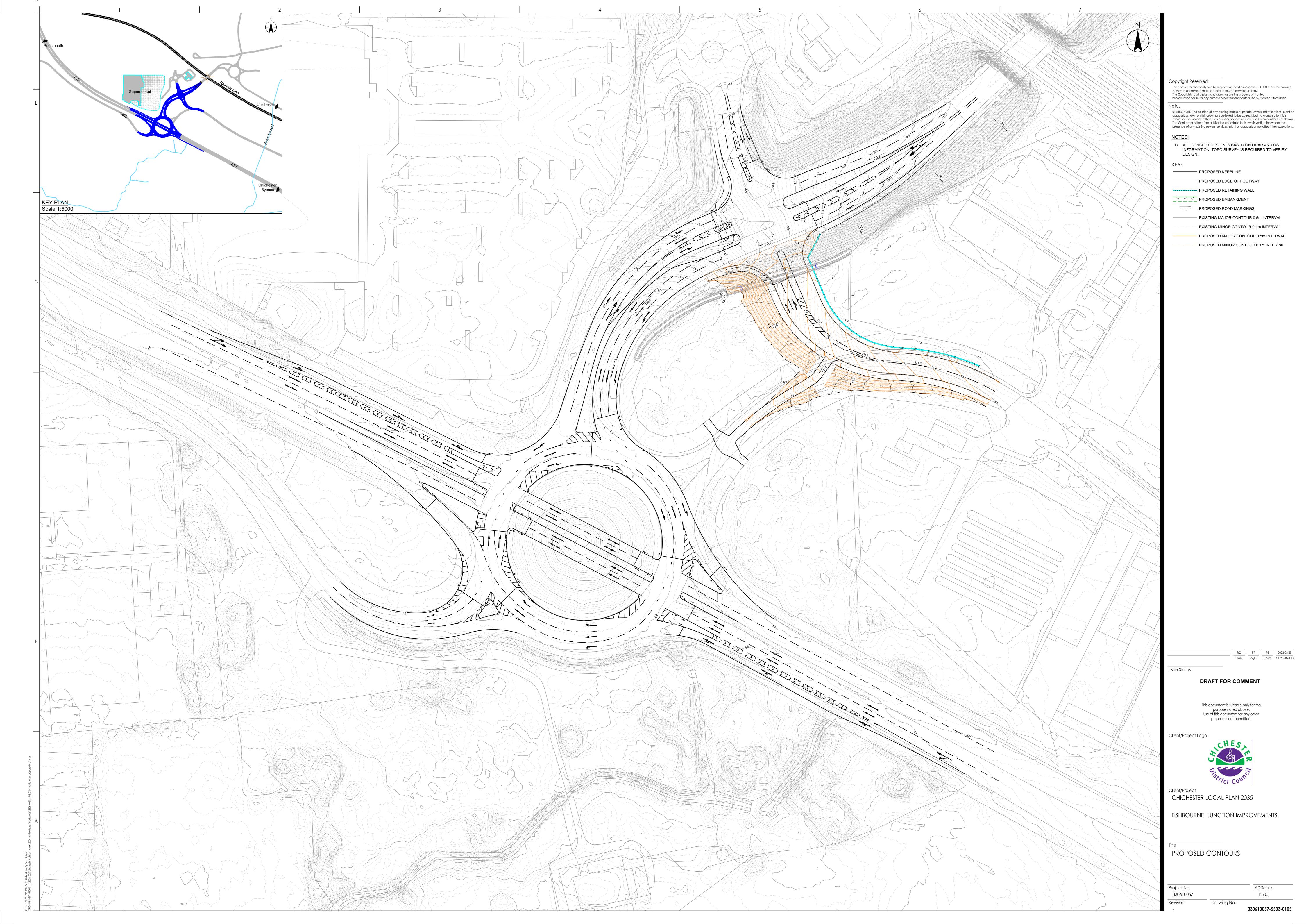


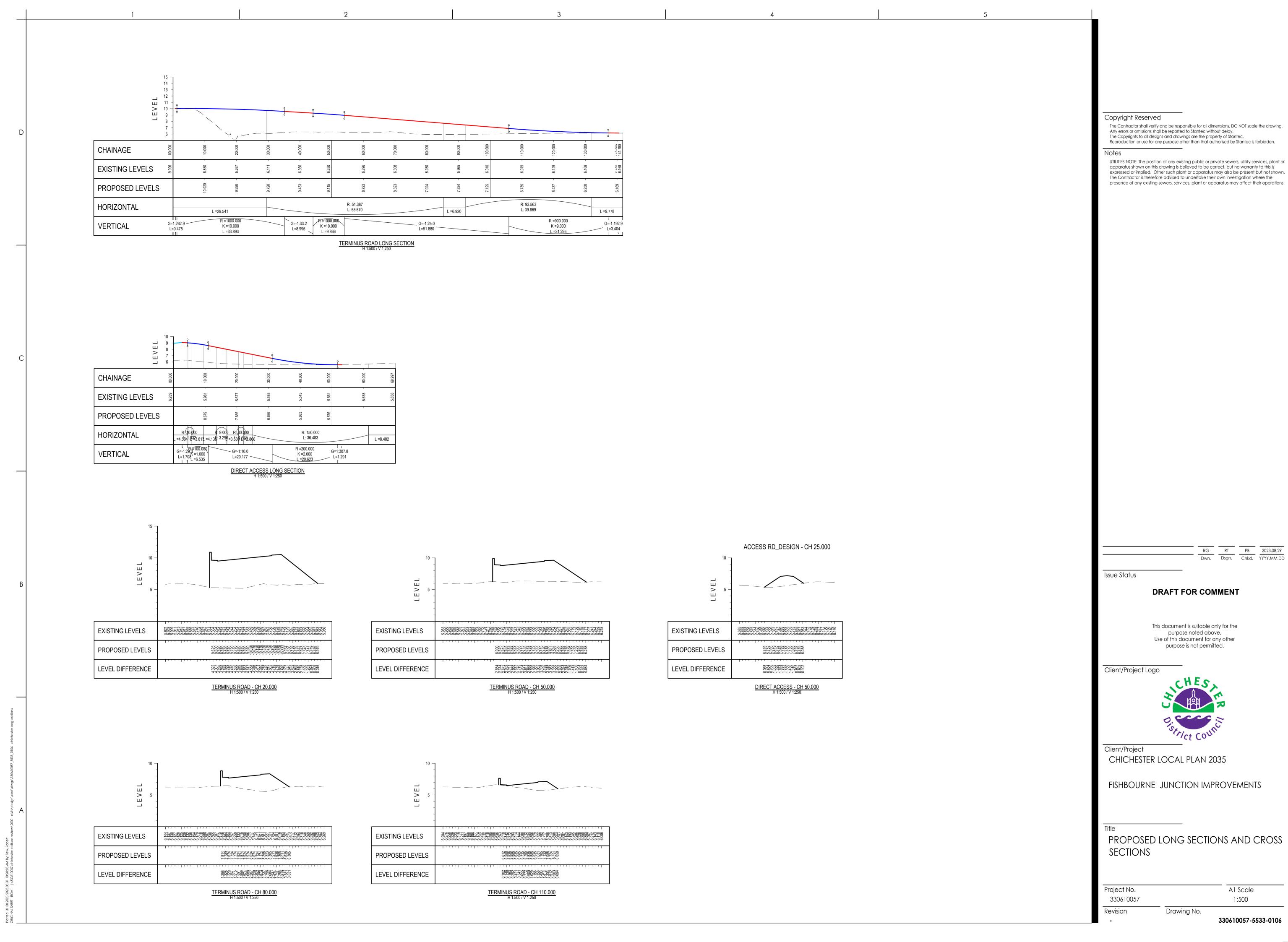
Appendix D Proposed Scheme Plans













Appendix E Collision Data Review Table

Collision ref	Location	Type of collision	Weather	Time	Severity
	Cathedral Way/Fishbourne Rd E				
2017471700632	Junction	Failure to give way	Wet	Night	Slight
2017471701206	Roundabout - Cathedral Way	Rear end shunt	Dry	Day	Slight
2017471702283	Roundabout - Cathedral Way	Rear end shunt	Wet	Day	Slight
2017471704963	Roundabout - Terminus Road	Failure to give way	Dry	Day	Slight
2017471705236	Roundabout - Cathedral Way	Rear end shunt	Dry	Day	Slight
2017471705271	Roundabout - A27 West	Rear end shunt	Dry	Day	Slight
2017471705395	A27 East	Side swipe	Dry	Day	Slight
2017471706262	Roundabout - A27 West	Failure to give way	Dry	Day	Slight
2017471706761	Roundabout - Cathedral Way	Side swipe	Dry	Day	Slight
2017471706993	Cathedral Way/Fishbourne Rd E Junction	Failure to give way	Dry	Night	Slight
2017471707342	Roundabout - Terminus Road	Loss of control	Snow	Day	Slight
2017471800025	Roundabout - Terminus Road	Failure to give way	Wet	Day	Slight
2017471800544	Roundabout - A27 East	Rear end shunt	Dry	Day	Slight
2018471801318	A27 East	Rear end shunt	Dry	Day	Slight
2018471801525	A27 West	Loss of control	Dry	Night	Slight
2018471804242	Roundabout - A27 West	Rear end shunt	Dry	Day	Slight
2018471805583	Roundabout - A27 West	Rear end shunt	Dry	Day	Slight
2018471807090	Roundabout - A27 West	Failure to give way	Wet	Night	Slight
2018471807172	Roundabout - A27 East	Rear end shunt	Dry	Day	Slight
2019470846647	Cathedral Way/Fishbourne Rd E Junction	Failure to give way	Wet	Day	Slight



	Roundabout - Terminus				
2019470848249	Road	Failure to give way	Dry	Day	Slight
2019470850076	A27 East	Rear end shunt	Dry	Day	Serious
	Roundabout - Terminus			2 6. 7	00.100.0
2019470852646	Road	Failure to give way	Dry	Day	Slight
		l amaric de graditary			
2019470854377	Roundabout - A27 East	Failure to give way	Dry	Day	Slight
		,	,	,	
2019470868471	Roundabout - A27 East	Failure to give way	Dry	Day	Slight
	Roundabout - Fishbourne				
2019470875875	Rd West	Failure to give way	Dry	Day	Slight
	Cathedral				
	Way/Fishbourne Rd E				
2019470878950	Junction	Failure to give way	Dry	Day	Slight
2019470879671	Roundabout - A27 West	Rear end shunt	Dry	Day	Slight
	Roundabout - Terminus				
2019470883434	Road	Failure to give way	Dry	Night	Slight
2019470905770	A27 East	Rear end shunt	Dry	Night	Slight
	Roundabout - Fishbourne				
2019471901462	Rd West	Rear end shunt	Wet	Day	Slight
	Roundabout - Cathedral				
2019471901568	Way	Failure to give way	Dry	Day	Slight
2040474004025	Roundabout - Fishbourne				CI: I :
2019471901825	Rd West	Failure to give way	Dry	Day	Slight
2019471901885	A27 East	Rear end shunt	Dry	Day	Serious
	Cathedral				
2019471902416	Way/Fishbourne Rd E	Failure to give way	Draw	Day	Corious
2019471902416	Junction A27 East	Failure to give way Rear end shunt	Dry	Day Day	Serious
2019471902607	AZ/EdSL	Real ellu siluit	Dry	Бау	Slight
2019471902618	Roundabout - A27 East	Rear end shunt	Dry	Day	Slight
2020470923448	A27 East	Side swipe	Dry	Day	Serious
2020470323440	NZ/ LUST	Side Swipe		Day	Jerious
2020470951528	Roundabout - A27 East	Rear end shunt	Dry	Day	Slight
2020470965414	A27 East	Rear end shunt	Dry	Day	Slight
2020470967268	A27 East	Loss of control	Wet	Night	Serious
	Cathedral				
	Way/Fishbourne Rd E				
2020470968602	Junction	Failure to give way	Dry	Day	Slight



2020470980450	Roundabout - Terminus Road	Loss of control	Dry	Night	Serious
2020471002982	Roundabout - Fishbourne Rd West	Failure to give way	Wet	Night	Serious
2021471018140	Roundabout - Terminus Road	Rear end shunt	Wet	Day	Slight
2021471022561	Cathedral Way/Fishbourne Rd E Junction	Failure to give way	Wet	Day	Slight
2021471031104	Roundabout - Terminus Road	Failure to give way	Dry	Day	Serious
2021471034181	Cathedral Way/Fishbourne Rd E Junction	Failure to give way	Dry	Day	Slight



Appendix F Alternative Layout Sketches

