

COUNTRYSIDE PARTNERSHIPS PLC

BROOK FARM, DAWS HEATH ROAD, DAWS HEATH, ESSEX, SS7
2UG

UTILITIES & SERVICES

REPORT REF NO. W461-01 PROJECT NO. W461 JUNE 2022

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DOCUMENT CONTROL SHEET

REV	ISSUE PURPOSE	AUTHOR	CHECKED	APPROVED	DATE
-	Draft Issue	AW	AW BB		27/05/22
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XX/W461-01 (iii)

EXECUTIVE SUMMARY

This report demonstrates that the proposed development of 173 residential units at Brook Farm, Daws Heath Road, Daws Heath can be supplied with electricity, potable water, sewage infrastructure and telecommunication connections from supplies within the immediate vicinity of the site. There is only one service identified, Anglian Water foul water sewers, on the asset plans running through the site, and under current development plans minor diversionary works are expected. Services running along the frontage of the site in Daws Heath Road may need localised lowering to suit the proposed access arrangement.

Gas

Cadent have MP and LP gas mains in the eastern footway of Daws Heath Road in the vicinity of the site access. Due to the location of the access, it is anticipated that localised lowering or protection of these mains will be required to facilitate access.

Potable Water

Essex and Suffolk Water currently own a distribution mains underneath Daws Heath Road in the vicinity of the site access.

Electricity

UKPN have HV cables below Daws Heath Road and a LV pole within the vicinity of the site access. Localised diversions may be required to facilitate the site access. The supply will be taken from the HV main in Daws Heath Road and UKPN have provided a budget estimate for installing the 1 new 800kVA substation and LV connections to each property.

Telecommunications

BT Openreach own several underground and overhead cables within Daws Heath Road within the vicinity of the site access. Localised diversions are anticipated to facilitate the site access. BT Openreach are legally obliged to service the site, and the site will be registered with Openreach once planning has been granted. Other telecommunication companies such as Virgin Media were contacted, however the asset plans received show no assets within the vicinity of the site.

Foul and Surface Water Drainage

Anglian Water has surface and foul infrastructure in the adjacent residential developments to the north and south. Anglian Water has foul sewers within Daws Heath Road and there is also a foul sewer within the site boundary. Minor diversionary works are anticipated to facilitate development, diversion of the foul water sewer will be undertaken under a section 185 application. The preferred surface water solution as discharge to a watercourse so no surface water capacity checks have been undertaken to date however Anglian Water has confirmed capacity within the foul network to accommodate the development.

1.0 INTRODUCTION

- 1.1. Ardent Consulting Engineers (ACE) has been commissioned by Countryside Partnerships PLC to provide a Utilities Statement for the proposed development for Brook Farm, Daws Heath, Essex. This report has been prepared to support the development of 173 residential units at the former farm.
- 1.2. In preparation of this report, ACE has consulted with the relevant Statutory Undertakers that provide services in the area.
- 1.3. It should also be noted that elements of this report have been produced on the basis of information received from relevant service companies and as such, ACE cannot accept responsibility for the accuracy of the information received.
- 1.4. Copies of the correspondence received from the Statutory Undertakers have been provided in the appendices of this report for further reference.
- 1.5. This report aims to provide a summary of the provision of utilities to serve the development and demonstrate that the Site can be suitably served without having a detrimental impact on the surrounding networks and environs. Where reinforcement works or diversions are likely required, these have been outlined.

2.0 BASELINE PARAMETERS

Site Location

- 2.1. The Site, circa 18.92ha, with approximately 6.42ha of developable land, is located east of Daws Heath Road, Daws Heath with approximate OS Grid co-ordinates 581346mE, 188371mN.
- 2.2. The Site is bounded by residential properties to the north, east and southwest, Daws Heath Road to the west and an existing river to the south. (refer to **Figure 2-1**).



Figure 2-1: Site Location Plan

Existing Land Use

2.3. The 18.92ha site is greenfield and comprises a farm.

3.0 DEVELOPMENT PROPOSALS

- 3.1. The proposed development constitutes the construction of 173 residential dwellings and a new access to Daws Heath Road. The accommodation schedule can be found in **Appendix A**.
- 3.2. Figure 3-1 below shows an extract of the proposed Site layout plan for the development. The complete plan can be found in Appendix B.

Access

3.3. The development will have sole vehicular and pedestrian access via the new access road from Daws Heath Road.



Figure 3-1: Site layout plan

4.0 UTILITY SERVICE PROVISION

Introduction

- 4.1. All relevant Statutory Undertakers were consulted in relation to the proposed development between March and May 2022.
- 4.2. Each Statutory Undertaker with known plant in the region has been contacted and requested to provide details of:
 - Existing assets in the area;
 - The requirement for any off-site reinforcement works to meet the peak load demand generated by the development proposals; and
 - The potential point of connection to the supply distribution network.

Approximate Utility Demands

- 4.3. Anticipated approximate utility demands for the Site were provided to utility providers, derived using BSRIA Guidance Documents and common benchmarks from providers. These are based on use of a gas heating system. The loads may vary depending on the preferred strategy, amount of renewables and energy efficiency.
- 4.4. The following approximate loadings presented in **Table 4-1** below have been used to inform the overall Site demands:

		Gas			
Land Use	Peak kVA (per unit)	Peak hourly loads kW (per unit)	Annual kWh (per unit)	Potable Water (I/head/day)	Foul Water I/day (per unit)
Flat - 1 Bed	1.2	60	6014	160	4000
House - 2 Bed	2.8	60	9650	160	4000
House - 3 Bed	3.3	60	11250	160	4000
House - 4 Bed	4.4	60	14250	160	4000
House - 5 Bed	5.5	60	16500	160	4000

Table 4-1: Approximate utility demands for various types of units

5.0 GAS

Cadent

5.1. Asset plans provided by Cadent illustrate the presence of gas mains in proximity to the site (refer to **Figure 5-1**).

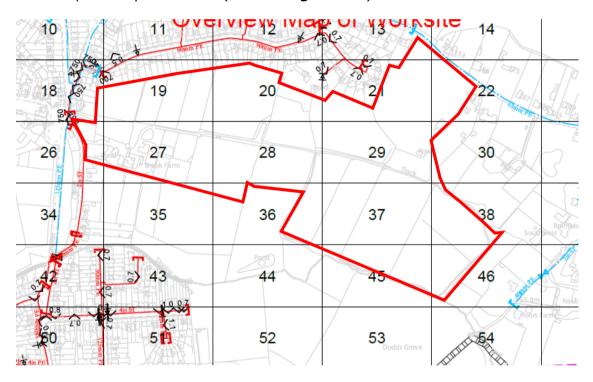


Figure 5-1: Extract of Cadent's asset plans

- 5.2. Figure 5-1 above demonstrates that there is a medium pressure (MP) main running in Daws Heath Road as well as a low pressure (LP) main. The LP & MP main may require protective measures or be lowered during the vicinity of the proposed access.
- 5.3. A subsequent enquiry was submitted to Cadent to determine whether there is sufficient capacity within the network. Cadent have confirmed that there is sufficient capacity within the MP main within Daws Heath Road **Appendix C**.

6.0 POTABLE WATER

Essex and Suffolk Water

6.1. Asset plans of the existing potable water supply network have been obtained from Essex and Suffolk Water as shown in **Figure 6-1** below.



Figure 6-1: Essex and Suffolk Water potable assets at the Site

- 6.2. **Figure 6-1** above indicates multiple potable water distribution mains within the locality of the Site. The principal distribution main runs along Daws Heath Road. No assets are located directly within the Sites confines; however, diversionary works or protective measures may be required during the construction of the site access. For the full asset plans, refer to **Appendix D**.
- 6.3. Under the current Ofwat charging regime, it is the responsibility of Essex and Suffolk Water to provide capacity within their system.

7.0 ELECTRICITY

UK Power Networks

7.1. Record plans of the existing electricity distribution network have been obtained from UK Power Networks (UKPN), an extract of which is shown in **Figure 7-1** below.

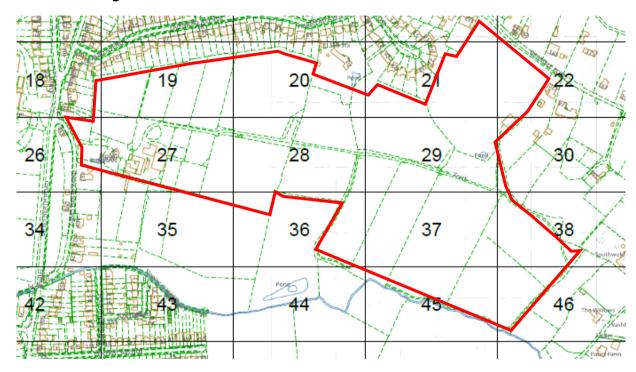


Figure 7-1: Extract from UKPN Asset Plans

- 7.2. **Figure 7-1** indicates there is UKPN assets within Daws Heath Road, specifically high voltage (HV) cables and low voltage (LV) cables. As well as existing substations within Southfield Close and Fairmead Avenue. There are no assets within the site boundary, however localised diversions are anticipated to facilitate the site access..
- 7.3. An enquiry was submitted to UKPN to determine whether there is sufficient capacity to supply the Site. UKPN has confirmed that there is capacity within the network and a budget estimate was included for the provision of 1 substation and supply from the HV main within Daws Heath Road.

8.0 TELECOMMUNICATIONS

BT Openreach

8.1. **Figure 8-1** & **Figure 8-2** below is an extract of the existing BT Openreach apparatus within the vicinity of the Site with the full plan within **Appendix F**.



Figure 8-1: Extract of BT Openreach Assets in the area

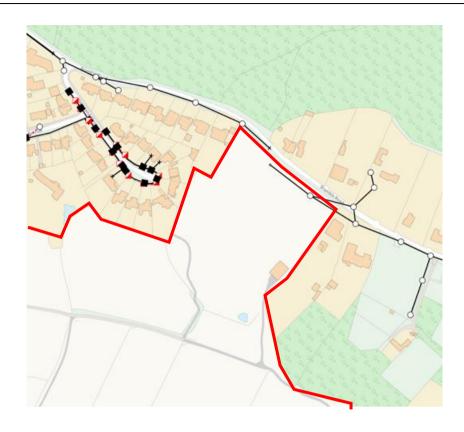


Figure 8-2: Extract of BT Openreach Assets in the area

- 8.2. The extracts show that whilst there are several underground assets within Daws Heath Road and the vicinity of the Site access, there is no BT apparatus within the Site development boundary at this location. There are some overhead BT apparatus within the northeast corner of the site, however, there is no proposed development in this area of the site and thus will not be affected. There are likely to be some localised diversions to facilitate the site access.
- 8.3. In terms of supplying the Site, BT is legally obliged to serve the development proposals. The Site will be registered with Openreach once planning has been granted, and once a start date has been confirmed BT will begin to draw up plans to supply the Site with future broadband.
- 8.4. Other telecommunications companies (Sky Telecommunications, Verizon, Lumen Technologies, Sota, Vodafone, Virgin Media) were not found to have apparatus within the vicinity of the Site.

9.0 FOUL AND SURFACE WATER DRAINAGE

Anglian Water

9.1. The local water authority, Anglian Water, has provided asset plans of the existing foul and surface sewerage network within the vicinity of the Site, shown in **Figure 9-1** below and included within **Appendix G**.



Figure 9-1: Extract from Anglian Water Asset Mapping

- 9.2. Figure 9-1 above shows existing surface water and foul water networks north and south of the site serving an existing residential development to the north. There is also an existing foul water within Daws Heath Road and running through the eastern portion of the site. It is anticipated that minor diversionary works will be required to the foul sewers within the site to facilitate the development. Further details are provided as part of the drainage strategy within the Flood Risk Assessment Report.
- 9.3. It is proposed that the development will utilise SuDS drainage techniques to drain surface water flows. The current drainage strategy is to discharge to the existing ditch along the southern boundary of the site without the need for connection to an external mains system.

- Subsequently, there was no need for consultation with Anglian Water for surface water drainage.
- 9.4. For foul discharge, the proposed strategy is to connect to the existing 150mm diameter sewer running through the site, at MH 6300.
- 9.5. In their response dated 30th May 2022, Anglian Water have confirmed that there is currently adequate capacity within their foul network to service the proposed 173 units without reinforcement works to the wider network.
- 9.6. Under current charging arrangements Anglian Water have to provide capacity within their network and any upgrade costs are the responsibility of Anglian Water.
- 9.7. Correspondence with Anglian Water can be found in **Appendix G**.

10.0 CONCLUSION

- 10.1. Based upon a review of utilities record plans provided by the various statutory undertakers, it is apparent that gas, electric, water and telecom assets are not present within the Site, however, foul water sewer are present within the site boundary. Diversionary works are anticipated to be required for Anglian Water foul water sewers. However, some localised protection or diversions of other utilities may be required to suit the proposed access. The diversions at the access will be confirmed at detail design stage.
- 10.2. The existing gas, electric, foul water, potable water and telecommunications utility networks currently have sufficient capacity to supply the Site without the need for reinforcement works.

Appendix A Accommodation Schedule



PROJECT: Brook Farm Daws Heath Road Hadleigh

CLIENT: Countryside JOB NO: DOC NO:

1762

. 202 \.

SHEET NO: 1 OF 4

DATE: 31-Mar ISSUE STATUS: **RIBA STAGE 2**

ACCOMMODATION SCHEDULE

\sim	_	_
		_

		/			
	HECTARES	ACRES	DENSITY dph	COVER sqm/acre	COVER sqft/acre
TOTAL GROSS SITE AREA	18.91	46.73	9	388	3590
HO14 LAND ALLOCATION			,	^	,
	STANDARD SPACES	DISABLED	VISITOR	ELEÇTRIC	TOTAL
PARKING PROVISION	387	N/A /	15	N/A	402

RESIDENTIAL TOTALS

TOTAL MIX	1/3	100.0%	18112.74	194903.91		
PRIVATE	1B	2B	3B	4B	5B	SUB-TOTAL
TOTAL MIX	0	/ 3	23	35	14	75
PERCENTAGE OF MIX	0.0%	/1.7%	13.3%	20.2%	8.1%	43.4%
SQM	0.00	229.80	2207.44	4883.38	2536.24	9856.86
SQFT	0.00	/ 2473.55	23760.69	52564.26	27299.86	106098.36
		,			•••••	

		/				
PRS	1B	2B	3B	4B	5B	SUB-TOTAL
TOTAL MIX	0 /	2	23	4	0	29
PERCENTAGE OF MIX	0.0%	1.2%	13.3%	2.3%	0.0%	16.8%
SQM	0.00 /	153.20	2161.12	470.40	0.00	2784.72
SQFT	0.00 /	1649.03	23262.10	5063.34	0.00	29974.48

AFFORDABLE		1B/	2B		3B		4	4B			5B		SUB	-TOTAL
TOTAL MIX		13	26		28			2			0			69
PERCENTAGE OF MIX		7.5%	15.09	%	16.2%		1.	2%			0.0%	3	3	9.9%
SQM	6	50.00	1811.7	72	2774.24	1	23	5.2	0		0.00	3	54	471.16
SQFT	,6	996.54	19501	.19	29861.6	7	25	31.6	57		0.00	3	588	891.08
HOUSE/ APARTMENT TYPE T	NURE	TYPE	SIZE	STORE	YS SQM		SQFT		TOTA	L	%	9	iQM	SQFT

30011	/0.	JJ0.J-	15501		23001.07	20	233	
HOUSE/ APARTMENT TYPE	TENURE	TYPE	SIZE	STOREYS	SQM	SQFT		
HT - 2B BUNGALOW	PRIVATE	Bungalow	2B	1	76.60	825		
HT - 309	PRIVATE	House	3B	2 /	95.40	1027		
HT - 305	PRIVATE	House	3B	2/	100.70	1084		
HT - 1002	PRIVATE	House	3B	/ 2	93.08	1002		
HT - 401	PRIVATE	House	4B	2	134.25	1445		
HT - 1184	PRIVATE	House	4B	2	109.99	1184		
HT - 404	PRIVATE	House	4B	2	117.60	1266		
HT - 412	PRIVATE	Ho use /	4B	2	145.76	1569		
HT - 419	PRIVATE	House	4B	2	166.50	1792		
HT - 500	PRIVATE	House	5B	2	181.16	1950		
HT - 2B BUNGALOW	PRS	Bungalow	2B	1	76.60	825		
HT - 301	PRS	House	3B	2	85.47	920		
HT - 309	PRS	House	3B	2	95.40	1027		
HT - 305	PRS	House	3B	2	100.70	1084		
HT - 404	PRS	House	4B	2	117.60	1266		
1BED APARTMENT	AFFORDABLE	Flat	1B	1	50.0	538		
2BED APARTMENT	AFFORDABLE	Flat	2B	1	70.0	753		
HT - 2.01	AFFORDABLE	Flat	2B	1	65.0	700		
HT - 2B BUNGALOW	AFFORDABLE	Bungalow	2B	1	76.60	825		
HT - 3B BUNGALOW	AFFORDABLE	Bungalow	3B	1	92.9	1000		
HT - 212	AFFORDABLE	House	2B	2	72.7	783		
HT - 303	AFFORDABLE	House	3B	2	100.1	1078		
HT - 404	AFFORDABLE	House	4B	2	117.60	1266		

TOTAL	%	SQM	SQFT			
3	1.7%	229.80	2473.55			
9	5.2%	858.60	9241.89			
6	3.5%	604.20	6503.55			
8	4.6%	744.64	8015.24			
10	5.8%	1342.50	14450.55			
4	2.3%	439.96	4735.69			
3	1.7%	352.80	3797.51			
12	6.9%	1749.12	18827.37			
6	3.5%	999.00	10753.15			
14	8.1%	2536.24	27299.86			
2	1.2%	153.20	1649.03			
6	3.5%	512.82	5519.95			
12	6.9%	1144.80	12322.52			
5	2.9%	503.50	5419.63			
4	2.3%	470.40	5063.34			
13	7.5%	650.00	6996.54			
5	2.9%	350.00	3767.37			
10	5.8%	650.00	<u>6</u> 996.54			
3	1.7%	229.80	2473.55			
4	2.3%	371.60	3999.87			
8	4.6%	581.92	6263.73			
24	13.9%	2402.64	25861.80			
2	1.2%	235.20	2531.67			

0844 854 9007 studio@daparchitecture.co.uk LONDON BIRMINGHAM ESSEX

RESIDENTIAL PLOT INFORMATION

			AREA.				
PLOT.	HOUSE/ APARTMENT TYPE	TYPE	SQM	SQF	BEDS	CAR PARKING.	AMENITY.
IDI OT INFO							
PLOT INFOI	HT - 419 (PRIVATE)	PRIVATE	166 E	1792	3 AD 5	1 1	107
2	HT - 500 (PRIVATE)	PRIVATE	166.5 181.16	1950	4B 5B	4 3	183 105
2	HT - 305 (PRIVATE)	PRIVATE	100.7	/1084	3B	2	130
4	HT - 412 (PRIVATE)	PRIVATE	145.76	1569	4B	3	\ 148
5	HT - 309 (PRIVATE)	PRIVATE	95.4	1027	3B	2	106
6	HT - 309 (PRIVATE)	PRIVATE	95.4	1027	3B	2	\ 105
7	HT - 309 (PRIVATE)	PRIVATE	95.4/	1027	3B	2	\ 115
8	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538	1B	1	280
9	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538	1B 1B	1	
10 11	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	/50 / 50	538 538	1B 1B]	
12	1BED APARTMENT (AFFORDABLE) 1BED APARTMENT (AFFORDABLE)	AFFORDABLE AFFORDABLE	50	538	1B	1	
13	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538	1B	1	
	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538	1B	1	
14 15	2BED APARTMENT (AFFORDABLE	AFFORDABLE /	70	753	2B	2	
16	2BED APARTMENT (AFFORDABLE	AFFORDABLE /	70	753	2B	2	
17 18	HT - 303 (AFFORDABLE)	AFFORDABLĘ'	100.11	1078	3B	2	113
18	HT - 303 (AFFORDABLE)	AFFORDABĻE	100.11	1078	3B	2	101
19	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B	2	105
20 21	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B 3B	2	111
21	HT - 309 (PRIVATE)	PRIVATE	95.4	1027		2 2 2	132
22 23	HT - 309 (PRIVATE) HT - 419 (PRIVATE)	PRIVATE PRIVATE	95.4 166.5	1027 1792	3B 4B	4	132
23 24	HT - 412 (PRIVATE)		145.76	1569	4B	4	225 166
24 25	HT - 412 (PRIVATE)	PRIVATE PRIVATE	145.76	1569	4B	3	166 164
26	HT - 500 (PRIVATE)	/PRIVATE	181.16	1950	5B	3	173
27 28	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	173
28	HT - 412 (PRIVATE)	/ PRIVATE	145.76	1569	4B	3	171
29	HT - 401 (PRIVATE)	PRIVATE	134.25	1445	4B	3	111
30	HT - 401 (PRIVATE)	PRIVATE	134.25	1445	4B	3	101
31 32	HT - 401 (PRIVATE)	PRIVATE	134.25	1445	4B 3B	3	120
32 33	HT - 1002 (PRIVATE) HT - 1002 (PRIVATE)	PRIVATE PRIVATE	93.08 93.08	1002 1002	3B	3 2 2	100
34	HT - 305 (PRIVATE)	PRIVATE	100.7	1084	3B	2	101 101
35	HT - 309 (PRIVATE)	PRIVATE	95.4	1027	3B	2 2 2	107
35 36	HT - 309 (PRIVATE)	PRIVATE	95.4	1027	3B	2	104
37	HT - 309 (PRIVATE)	PRIVATE	95.4	1027	3B	2	112
38	HT - 401 (PRIVATE)	PRIVATE	134.25	1445	4B	3	100
39	HT - 401 (PRIVATE)	PRIVATE	134.25	1445	4B	3	100
40	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	4	1/0
41	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538	1B	1	270
42 43	2BED APARTMENT (AFFORDABLE	AFFORDABLE	<i>7</i> 0	753 753	2B 2B	2	
	2BED APARTMENT (AFFORDABLE 1BED APARTMENT (AFFORDABLE)	AFFORDABLE AFFORDABLE	50	753 538	2B 1B	1	}
44 45	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538	1B	1	-
46	1BED APARTMENT (AFFORDABLE	AFFORDABLE	50	538	1B	i	<u> </u>
47	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538	1B	1	h
48 49	1BED APARTMENT (AFFORDABLE)	AFFORDABLE	50	538 753	1B 2B	1	
49	2BED APARTMENT (AFFORDABLE	AFFORDABLE	70		2B	2 2 2 2	
50 51	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B 3B	2	154
51 52	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B 3B	2	121
52 53	HT - 303 (AFFORDABLE) HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B 3B		184
53 54	HT - 303 (AFFORDABLE)	AFFORDABLE AFFORDABLE	100.11 100.11	1078 1078	3B	2 2 2 2 2	146 145
(00000000000000000000000000000000000000	HT 73B BUNGALOW (AFFORDABL	AFFORDABLE	92.9	1000	3B	2	(0000000000000000000)
55 56	HT - 3B BUNGALOW (AFFORDABL	AFFORDABLE	92.9	1000	3B	2	128 140
57	HT - 3B BUNGALOW (AFFORDABL	AFFORDABLE	92.9	1000	3B	2	140 210
58	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65	700	2B	2	225
59	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65	700	2B	2	As Above
60	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B	2	100
61	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B	2	108
62	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B	2 2 2 3	108
63	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11	1078	3B	2	100
64	HT - 412 (PRIVATE)	PRIVATE	145.76	1569	4B	3	148
65	HT - 1184 (PRIVATE)	PRIVATE	109.99	1184	4B	3	100
66	HT - 1184 (PRIVATE)	PRIVATE	109.99	1184	4B	3	102
67 68	HT - 401 (PRIVATE) HT - 401 (PRIVATE)	PRIVATE PRIVATE	134.25 134.25	1445 1445	4B 4B	3	114 149
1 00	(111 - 401 (FRIVATE)	PRIVAIE	134.23	C++1	4D	لسئسا	149

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69	HT - 401 (PRIVATE)	PRIVATE	134.25 1445	4B 3 4B 3	118
70	HT - 401 (PRIVATE)	PRIVATE	134.25 1445	4B 3	104
	HT - 1002 (PRIVATE)	PRIVATE	93.08 1002	3B 2	127
71 72		\$		3B 2 3B 2	127
72	HT - 1002 (PRIVATE)	PRIVATE	7X	/ 3B Z	111
73 74	HT - 305 (PRIVATE)	PRIVATE	100.7 1084	3B \ 2	120
74	HT - 309 (PRS)	PRS	95.4 1027	3B 2 3B 2 3B 2	100
75 76 77	HT - 309 (PRS)	PRS	95.4 1027 /	3B 2	101
7.0	3	juuuuuuuuuu	i i i i i i i i i i i i i i i i i i i	70	101
	HT - 305 (PRS)	PRS	100.7 1084	3B 2 3B 2	101
77	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2 \	100
78	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2 \	100
79	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 700	2B 2	123
80	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 /700	3B 2 2B 2 2B 2 2B 2	\
QU	La constantina de la constantina del constantina de la constantina del constantina de la constantina d	Samuranian	65 / 700	<u> </u>	As Above
81	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 / 700		\ 110
82	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 700	2B 2	\ As Above
83	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 / 700	2B 2	\ 186
	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 / 700		
84 85	``````````````````````````````````````	gamana and a gamana		2B 2 3B 2	As Above
	HT - 303 (AFFORDABLE)	AFFORDABLE	100/11 1078	3B Z	161
86	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	2B 2 2B 2 2B 2 3B 2 3B 2	196
87	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2	185
88	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2	228
89	HT - 212 (AFFORDABLE)	AFFORDABLE	72.74 783	3B 2 3B 2 2B 2	228 50
(m		\$\			(**************************************
90	HT - 212 (AFFORDABLE)	AFFORDABLE	72.74 783	2B 2	94
91	HT - 212 (AFFORDABLE)	AFFORDABLE	72.74 783	2B 2	112
92	HT - 212 (AFFORDABLE)	AFFORDABLE /	72.74 783	2B 2	112
93	HT - 2B BUNGALOW (PRS)	PRS	76.6 825	2B 2 2B 2 2B 2 2B 2	138
94		PRS /	76.6 825	2B 2	
	HT - 2B BUNGALOW (PRS)	PK2	/ 0.0 825	2B 2 3B 2	205
95	HT - 309 (PRS)	PRS	95.4 1027	3B 2	106
96	HT - 309 (PRS)	PRS	95.4 1027	3B 2	103
97	HT - 301 (PRS)	PRS /	85.47 920	3B 2	105
Samuel		immonomonomonimonomoni	hannananan mananan man	3B 2	(coccoccoccoccocco)
98 99	HT - 301 (PRS)	PRS	85.47 920	3B 2	119
	HT - 301 (PRS)	PRS	85.47 920		119
100	HT - 301 (PRS)	PRS	85.47 920	3B 2	127
101	HT - 404 (PRS)	/PRS	117.6 1266	4B 2	118
102	HT - 305 (PRS)	/PRS PRIVATE	100.7 1084	4B 2 3B 2	110
103		(managamanananananananananananananananana		4B 3	
103	HT - 1184 (PRIVATE)	/PRIVATE	109.99 1184	48 3	101
104	HT - 1184 (PRIVATE)	/ PRIVATE	109.99 1184	4B 3 4B 3	109
105	HT - 1002 (PRIVATE)	/ PRIVATE	93.08 1002	3B 2	114
106	HT - 412 (PRIVATE)	PRIVATE	145.76 1569		ბიიიიიიიიიიიიიიი
107		/3	\(\tau_1 \\ \tau_2 \\ \tau_3 \\ \tau_4 \\ \tau_5 \\ \tau_6 \\ \tau	4B 2 3B 2	131
	HT - 301 (PRS)	PRS		3B Z	112
108	HT - 301 (PRS)	PRS	85.47 920	3B 2	107
109	HT - 309 (PRS)	PRS	95.4 1027	3B 2 3B 2 3B 2	116
110	HT - 309 (PRS)	PRS	95.4 1027	3B 2	116
111	HT - 309 (PRS)	PRS	95.4 1027	3B 2	(
(00000000000000000000000000000000000000					123
112	HT - 309 (PRS)	PRS PRS	95.4 1027	3B 2 4B 2	116
113	HT - 404 (PRS)	PRS	117.6 1266	4B 2	122
114	HT - 305 (PRS)	PRS	100.7 1084	3B 2	103
115	HT - 305 (PRS)	PRS	100.7 1084	3B 2 3B 2	103 250
116	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 700	2B 2	216
117	(2B 2	· Accommon common de la common de
117	HT - 2.01 (AFFORDABLE)	AFFORDABLE	65 700	ZB Z	As Above
118	HT - 404 (AFFORDABLE)	AFFORDABLE	117.6 1266	2B 2 4B 2 3B 2	185
119	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2	137
120	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2	126
121	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2 3B 2 3B 2	126
121	\	**************************************		3B 2	
122	HT - 303 (AFFORDABLE)	AFFORDABLE			105
123	HT - 303 (AFFORDABLE)	AFFORDABLE	100.11 1078	3B 2	100
124	HT - 3B BUNGALOW (AFFORDABL	AFFORDABLE	92.9 1000	3B 2	174
125 126	HT - 2B BUNGALOW (AFFORDABL	AFFORDABLE	76.6 825	2B 2	163
126	HT - 2B BUNGALOW (AFFORDABL	AFFORDABLE	76.6 825 76.6 825	2B 2 2B 2	149
127	HT - 2B BUNGALOW (AFFORDABL	AFFORDABLE			000000000000000000000000000000000000000
	L		76.6 825	2B 2	149
128	HT - 305 (PRS)	PRS	100.7 1084	3B 2	111
129	HT - 404 (PRS)	PRS	117.6 1266	4B 2	134
130	HT - 404 (PRS)	PRS	117.6 1266	4B 2	147
131	HT - 309 (PRS)	PRS	95.4 1027	2B 2 2B 2 2B 2 3B 2 4B 2 3B 2	105
132	la constitución de la constituci	PRS PRS		3B 2	jaconomoranomorano (
132	HT - 309 (PRS)	LK2	95.4 1027	3D	105
133	HT/- 309 (PRS)	PRS	95.4 1027	3B 2	119
134	HT - 309 (PRS)	PRS	95.4 1027	3B 2	108
135	HT - 305 (PRIVATE)	PRIVATE	100.7 1084	3B 2	111
	HT - 1002 (PRIVATE)	PRIVATE	93.08 1002	3B 2	113
136 137	HT - 1002 (PRIVATE)	}	93.08 1002	3B 2 3B 2 3B 2	138
13/		PRIVATE	93.08 1002	2D	120
138	HT - 1002 (PRIVATE)	PRIVATE	93.08 1002		134
139	HT - 305 (PRIVATE)	PRIVATE	100.7 1084	3B 2	143
140	HT - 404 (AFFORDABLE)	AFFORDABLE	117.6 1266	4B 2	126
141	HT - 212 (AFFORDABLE)	AFFORDABLE	72.74 783	2B 2	83
(management)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				(www.www.ww.)
142	HT - 212 (AFFORDABLE)	AFFORDABLE	72.74 783	2B 2 2B 2	65 65
143	HT - 212 (AFFORDABLE)	AFFORDABLE	72.74 783		65
144	HT - 212 (AFFORDABLE)	AFFORDABLE	72.74 783	2B 2	94
145	HT - 2B BUNGALOW (PRIVATE)	PRIVATE	76.6 825	2B 2 2B 2	64
200000000000000000000000000000000000000				- 3	

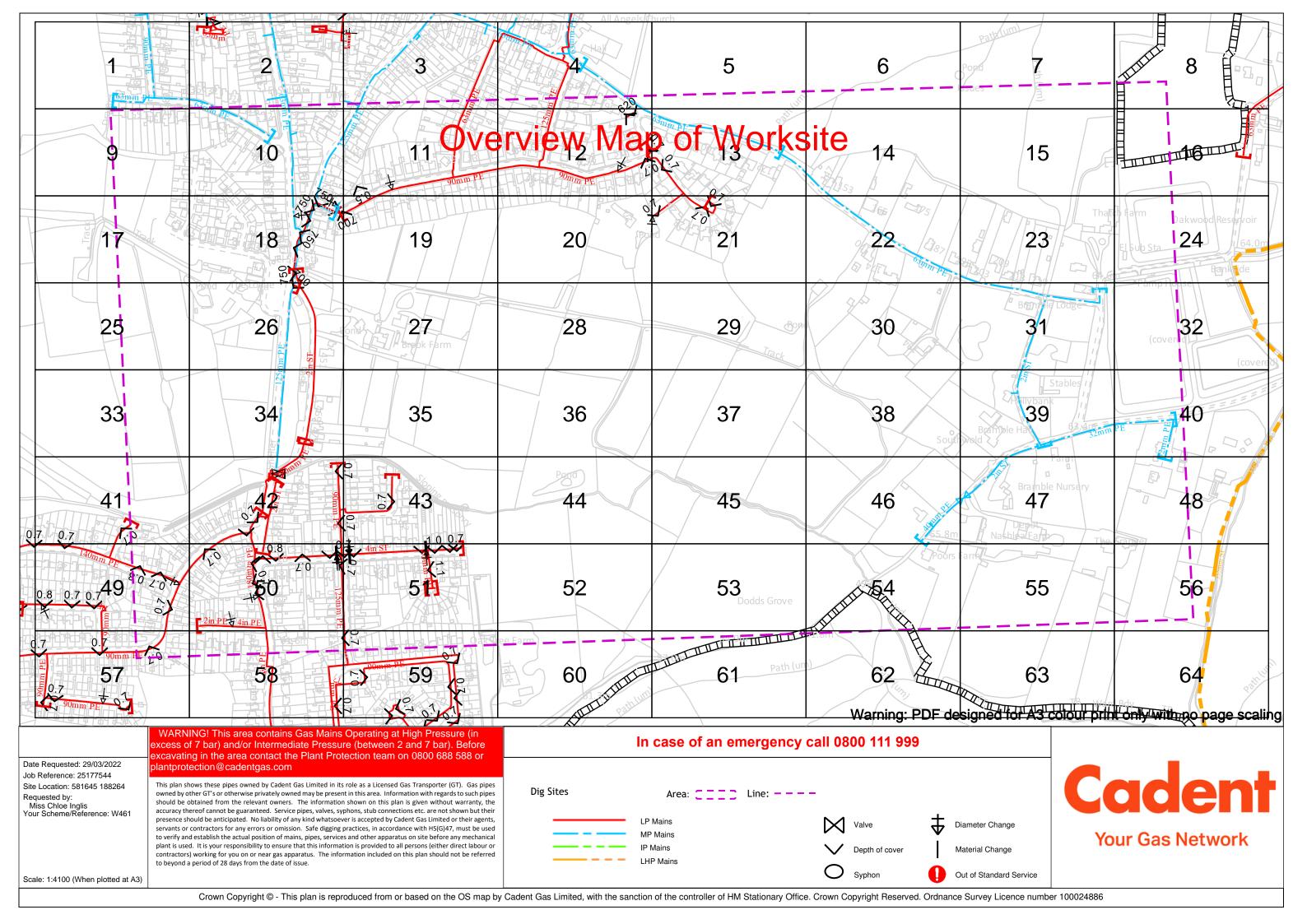
147 148 149 150 151 152 153 154 155 156 157 158 159 160 161	HT - 2B BUNGALOW (PRIVATE) HT - 2B BUNGALOW (PRIVATE) HT - 419 (PRIVATE) HT - 404 (PRIVATE) HT - 404 (PRIVATE) HT - 305 (PRIVATE) HT - 309 (PRIVATE)	PRIVATE PRIVATE PRIVATE PRIVATE	76.6 166.5 117.6	825 1792	2B 4B	2 4	105 103
149 150 151 152 153 154 155 156 157 158 159 160 161	HT - 404 (PRIVATE) HT - 404 (PRIVATE) HT - 305 (PRIVATE)	PRIVATE PRIVATE	117.6			\	
149 150 151 152 153 154 155 166 157 158 159 160 161	HT - 404 (PRIVATE) HT - 305 (PRIVATE)	PRIVATE	- Accommons	8			205
150 151 152 153 154 155 156 157 158 159 160 161	HT - 305 (PRIVATE)	PRIVATE		1266	4B	2	117
151 152 153 154 155 156 157 158 159 160 161 162	HT - 305 (PRIVATE)	**************************************	117.6	1266	4B	2	117
153 154 155 156 157 158 159 160 161 162	LIT 700 (DDI) (ATE)	PRIVATE	100.7	1084	3B	2	100
153 154 155 156 157 158 159 160 161 162	HI - 309 (PRIVATE)	PRIVATE	95.4	1027 /	3B	2	100
154 155 156 157 158 159 160 161 162 163	HT - 412 (PRIVATE)	PRIVATE	145.76	1569	4B	3	161
156 157 158 159 160 161 162 163	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	165
157 158 159 160 161 162 163	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	142
158 159 160 161 162 163	HT - 401 (PRIVATE)	PRIVATE	134.25	1445	4B	3	102
158 159 160 161 162 163	HT - 412 (PRIVATE)	PRIVATE	145.76	/1569	4B	3	144
160 161 162 163	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	\ 168
160 161 162 163	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	\ 145
161 162 163	HT - 500 (PRIVATE)	PRIVATE	181.16 /	1950	5B	3	\ 140
162 163	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	\ 114
163	HT - 412 (PRIVATE)	PRIVATE	145.76	1569	4B	3	147
164	HT - 412 (PRIVATE)	PRIVATE	145.76	1569	4B	3	117
_ 3 1	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	149
165	HT - 419 (PRIVATE)	PRIVATE	/166.5	1792	4B	4	159
166	HT - 412 (PRIVATE)	PRIVATE	/145.76	1569	4B	3	106
167	HT - 419 (PRIVATE)	PRIVATE	166.5	1792	4B	4	110
168	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	163
	HT - 404 (PRIVATE)	PRIVATE	117.6	1266	4B	3	108
170	HT - 500 (PRIVATE)	PRIVATE	181.16	1950	5B	3	165
171	HT - 500 (PRIVATE)	PRIVATE /	181.16	1950	5B	3	165
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173	HT - 419 (PRIVATE)	PRIVATE/	166.5	1792	4B	4	205

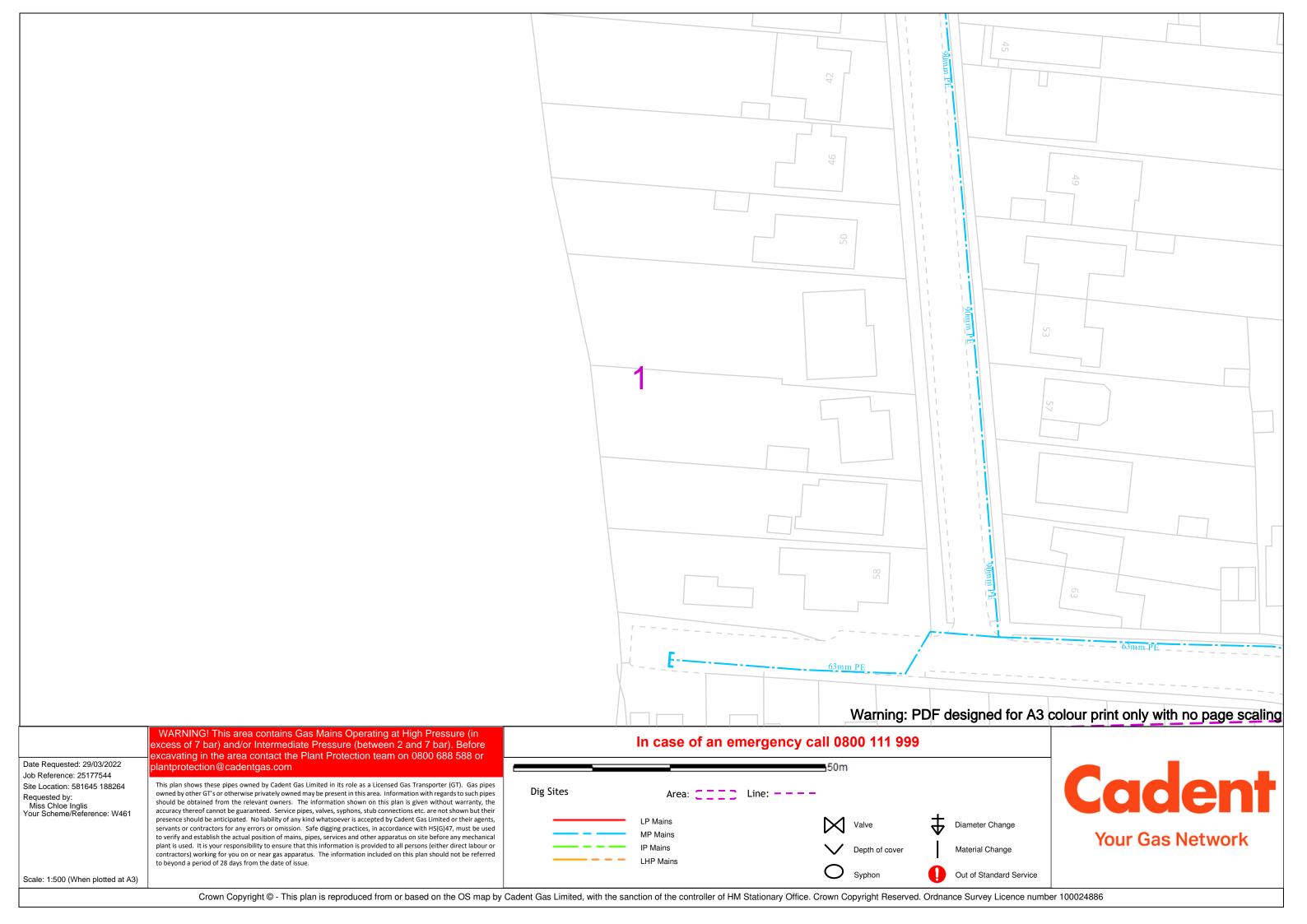
Appendix B

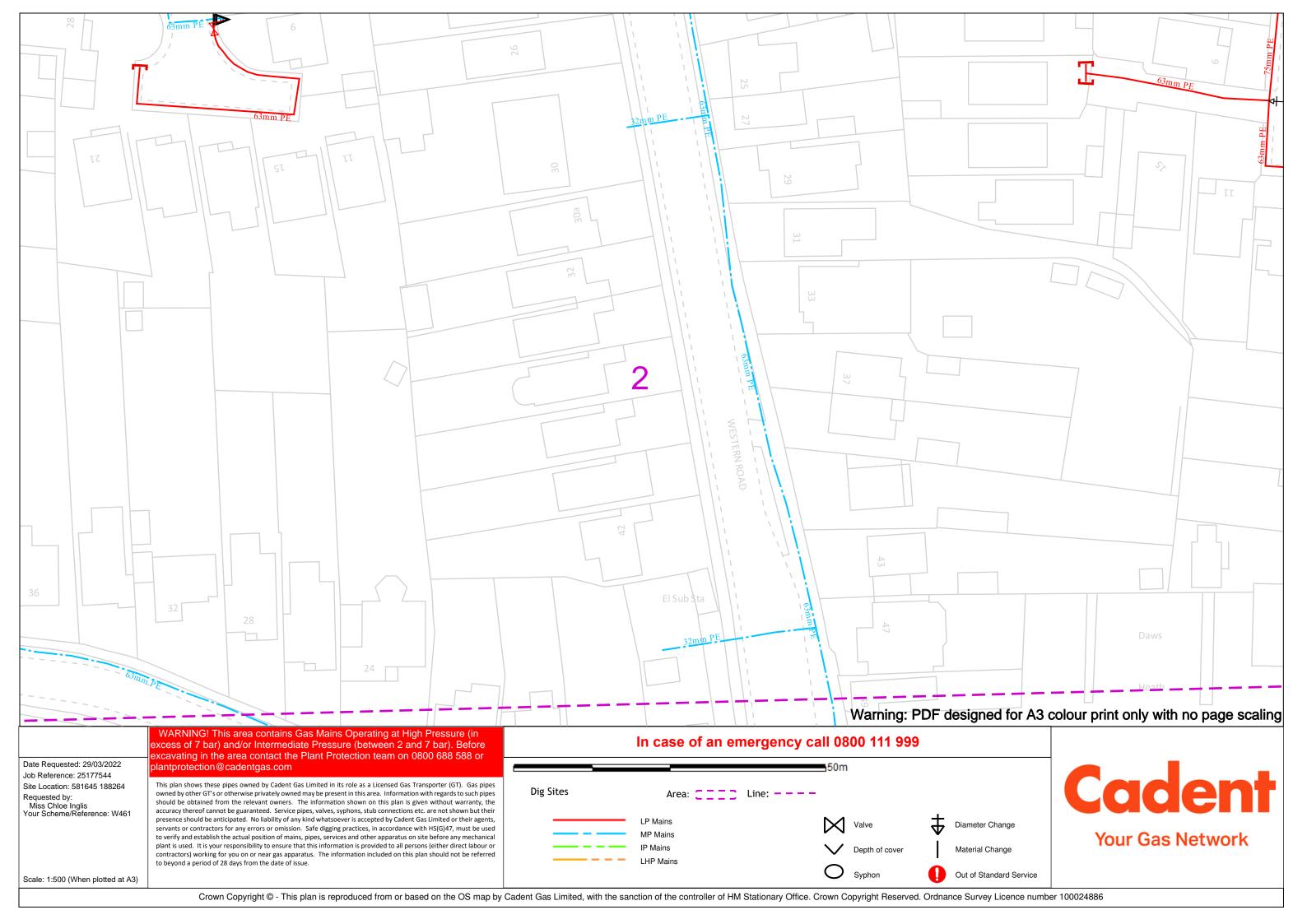
Site Layout Plan

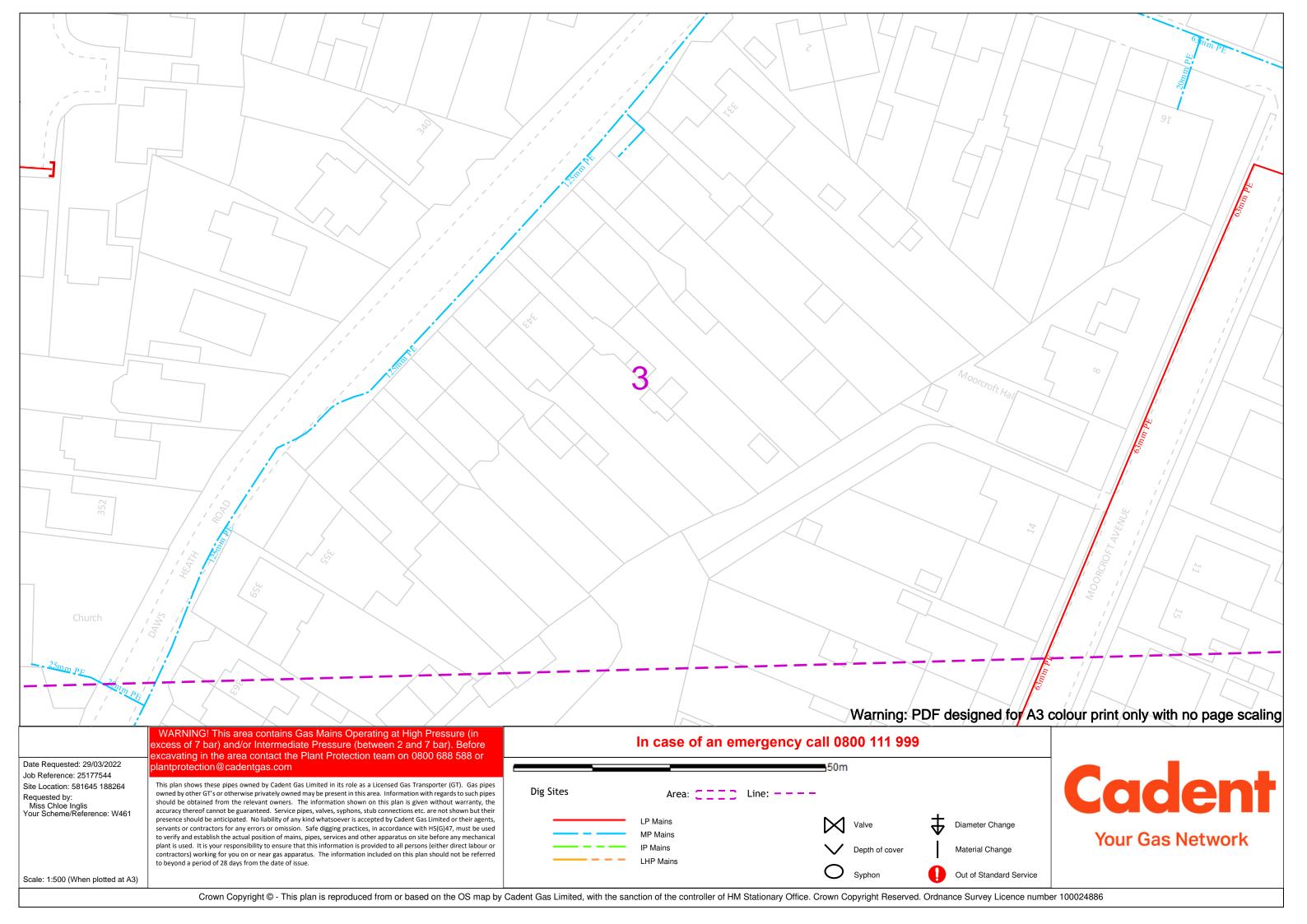


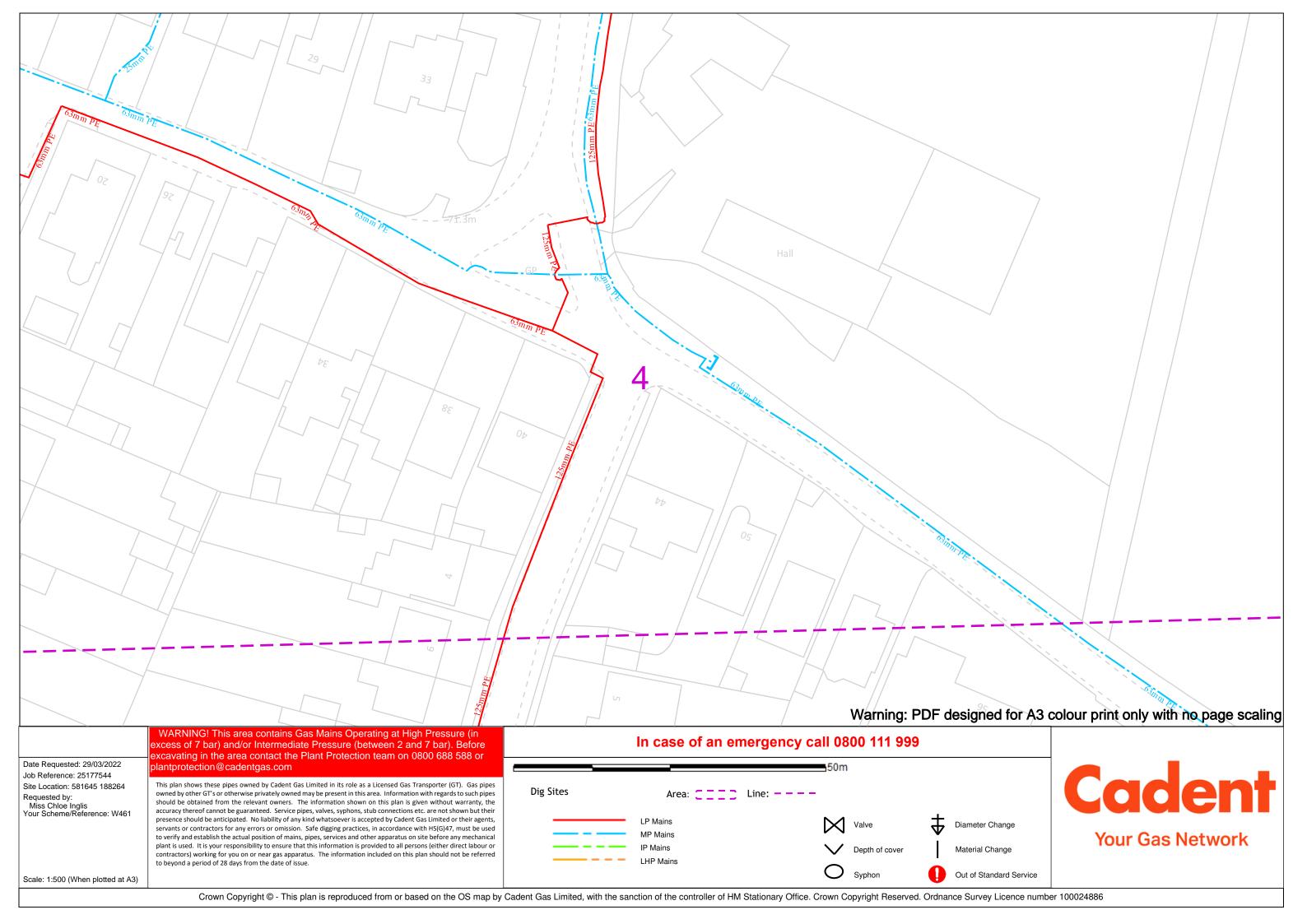
Appendix C SGN Correspondence

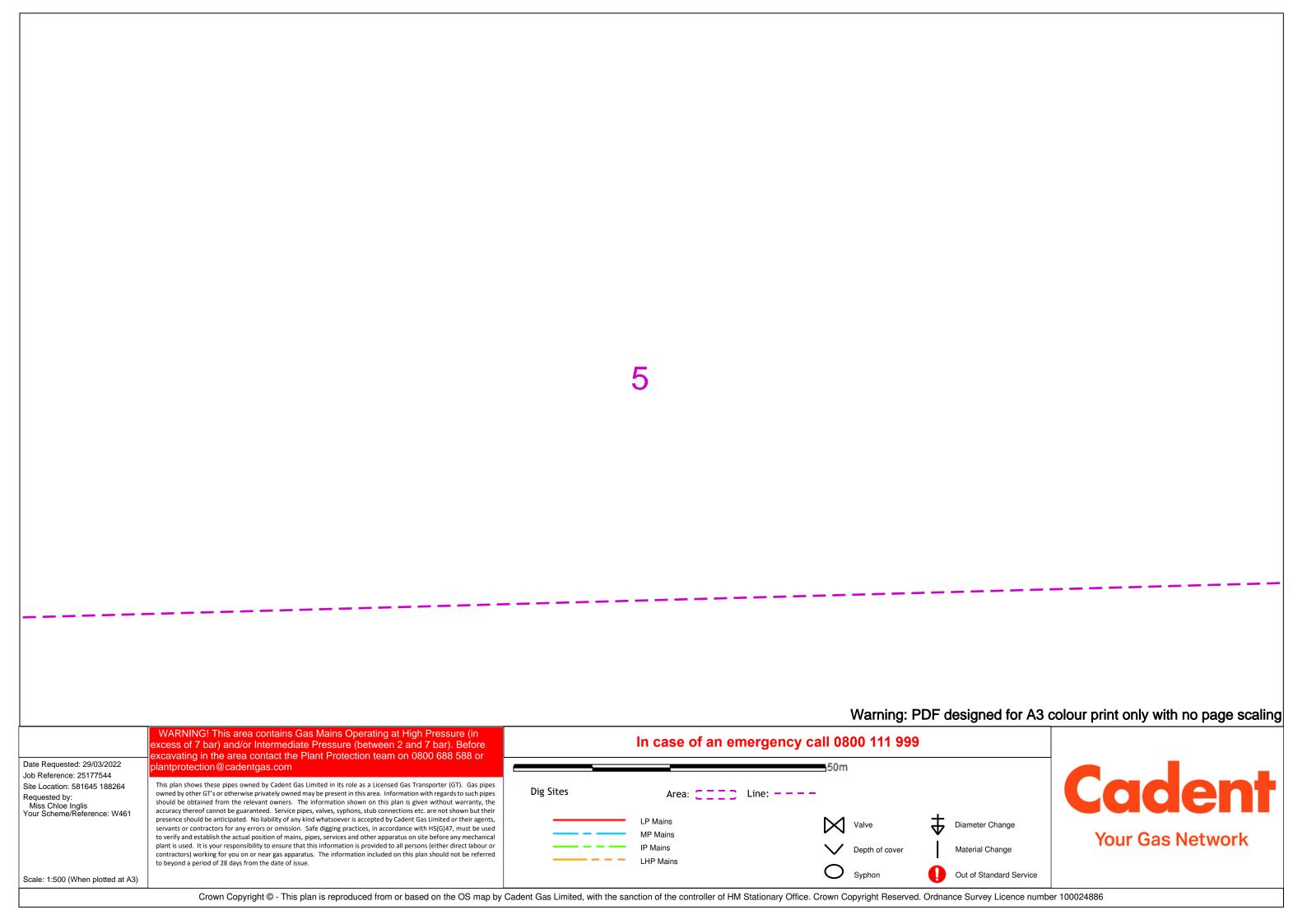


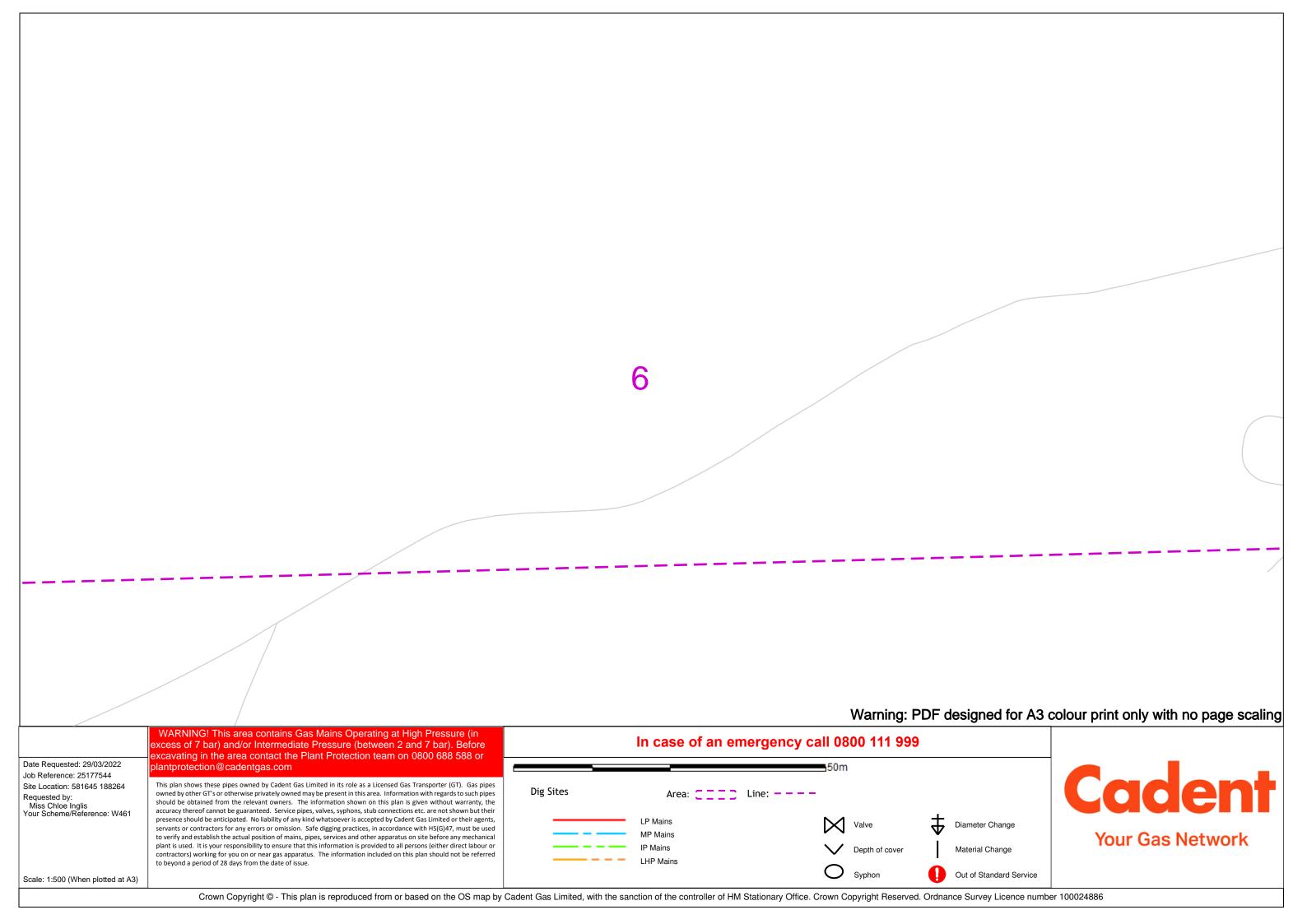


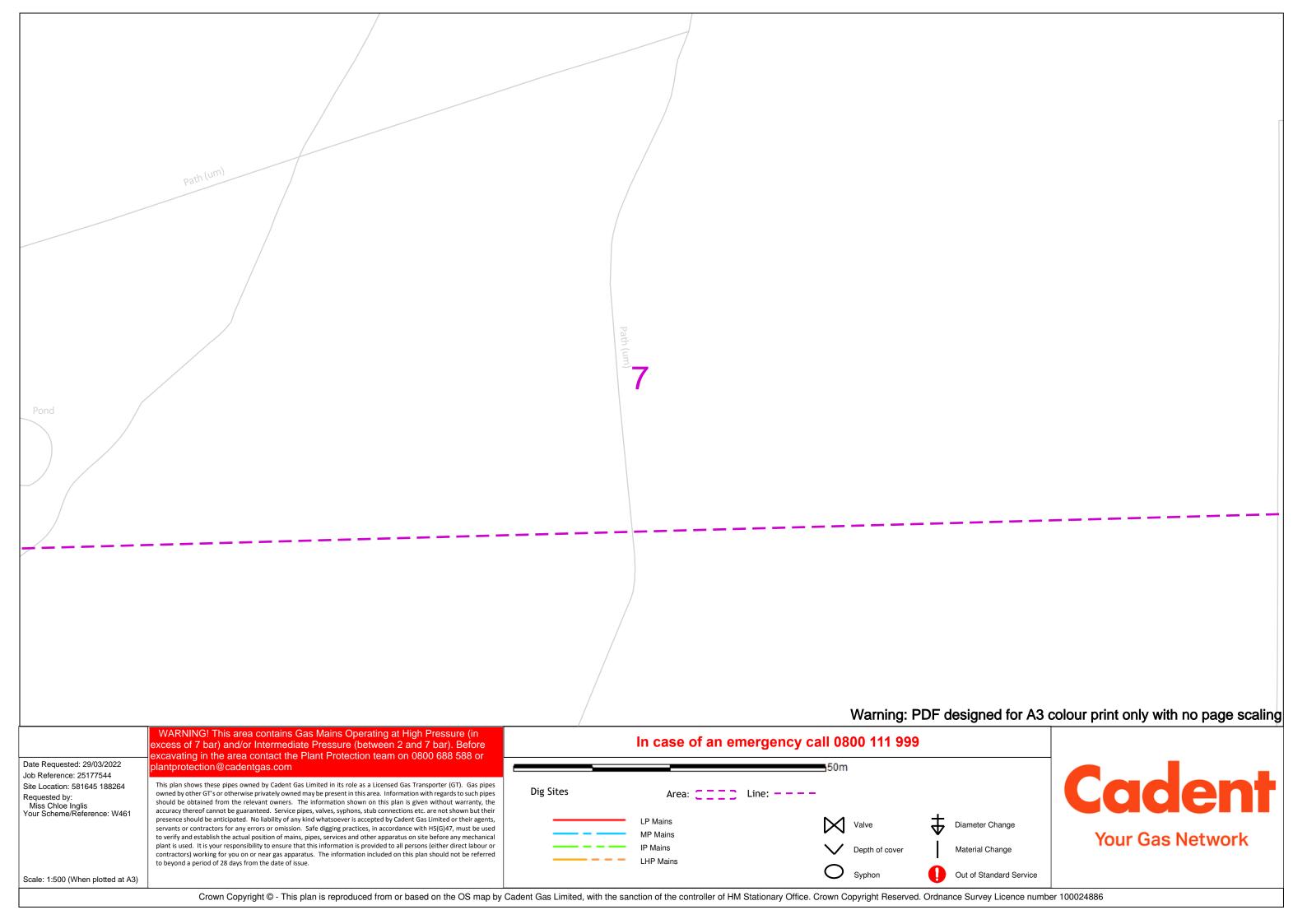


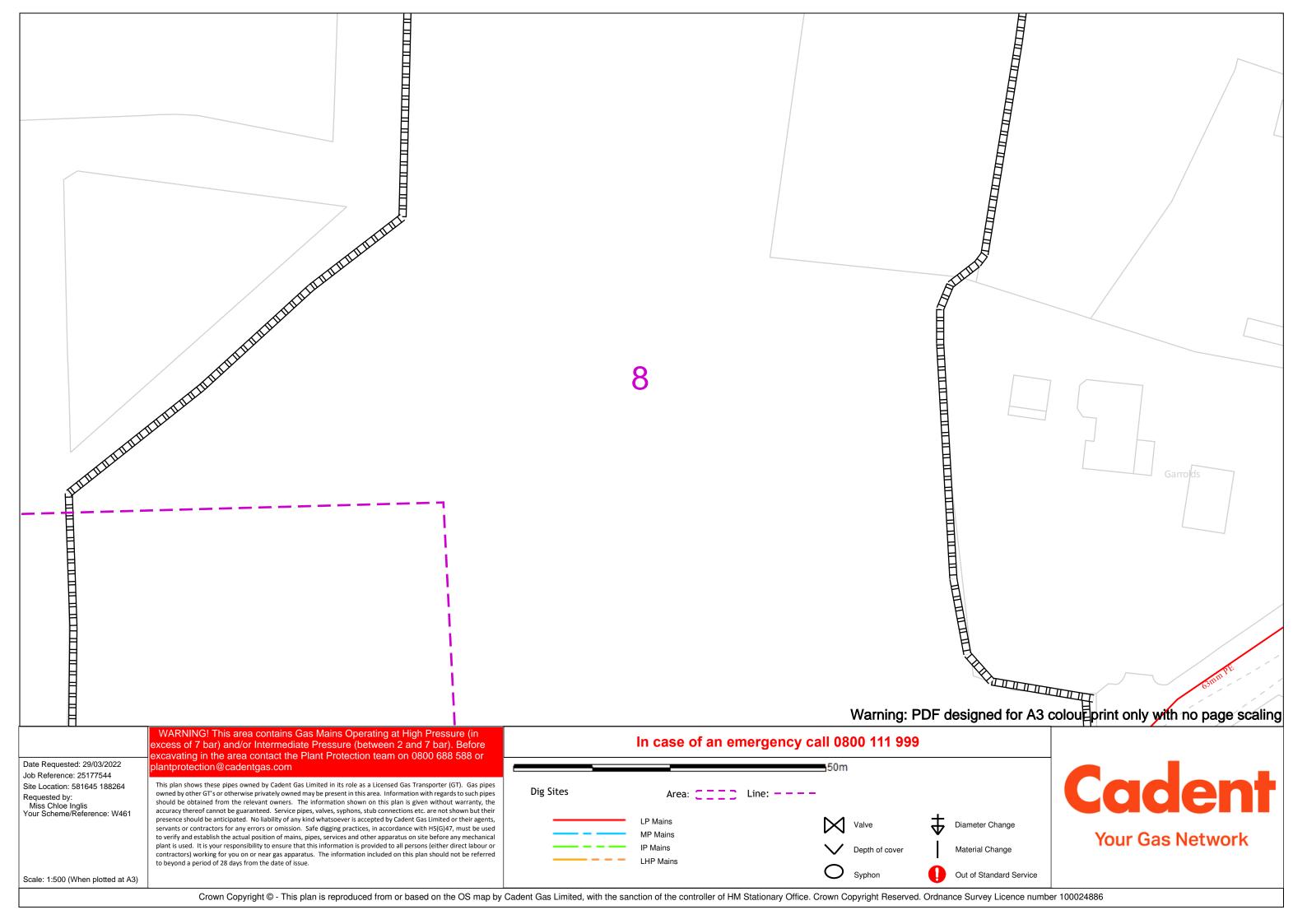


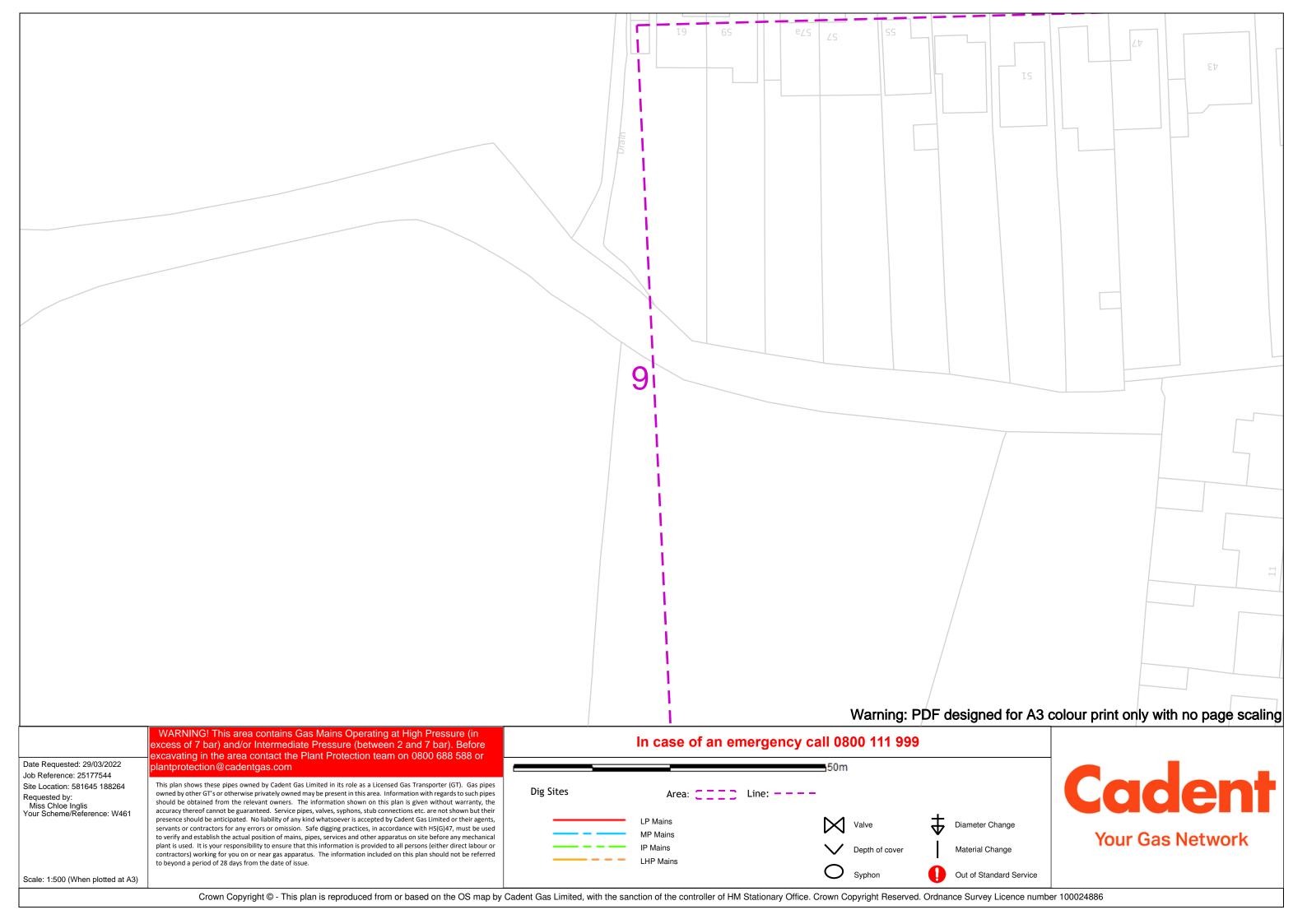


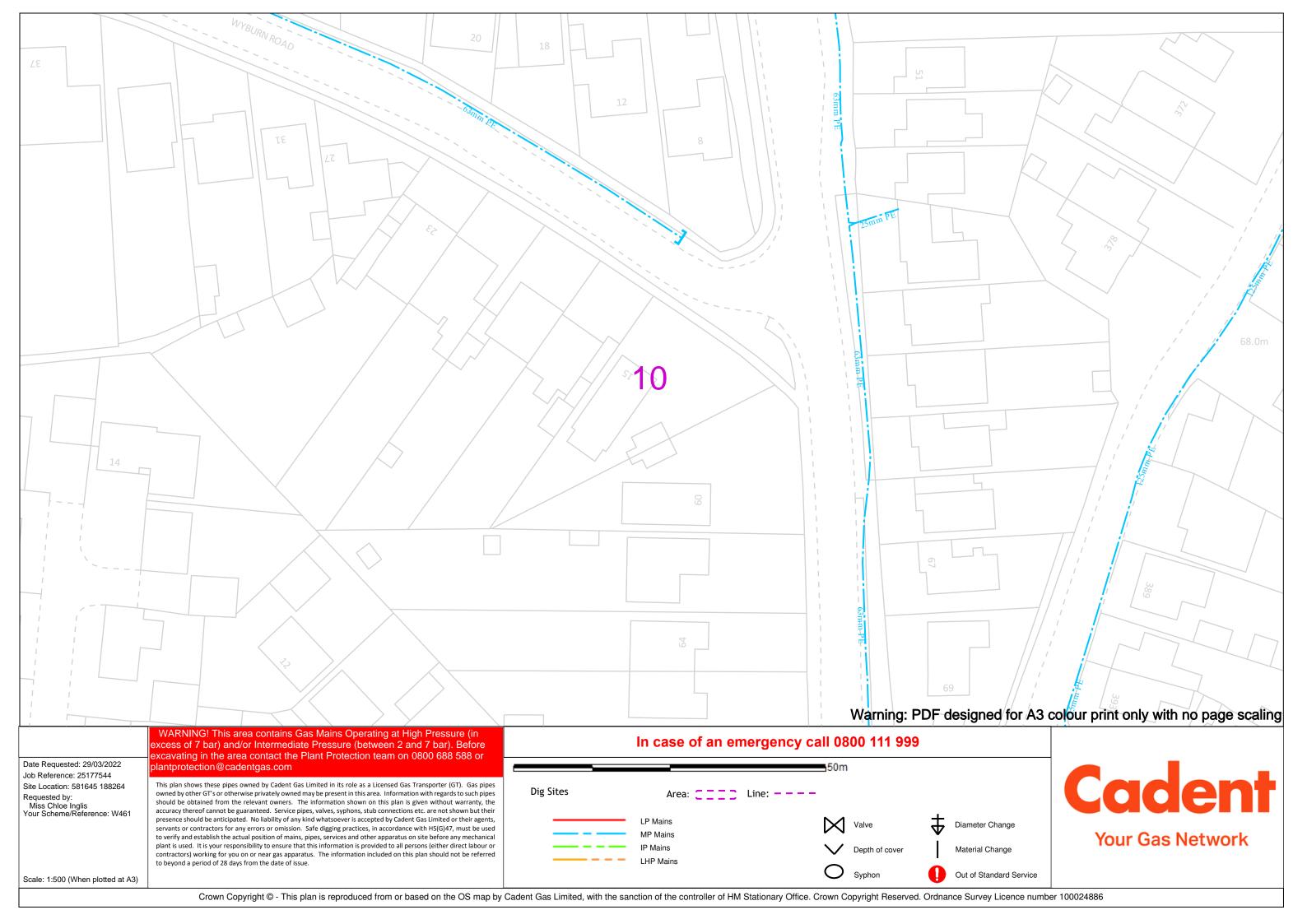


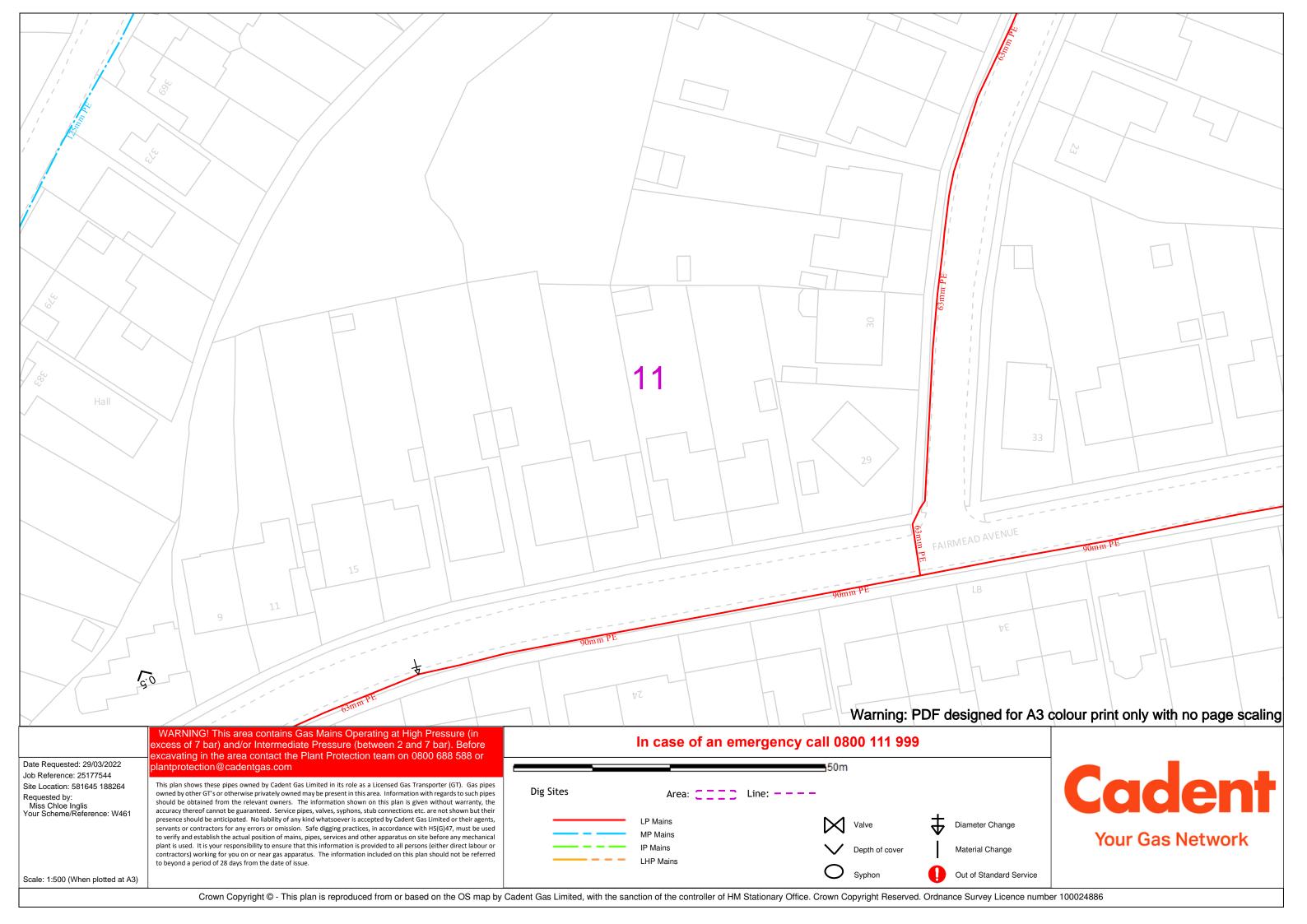


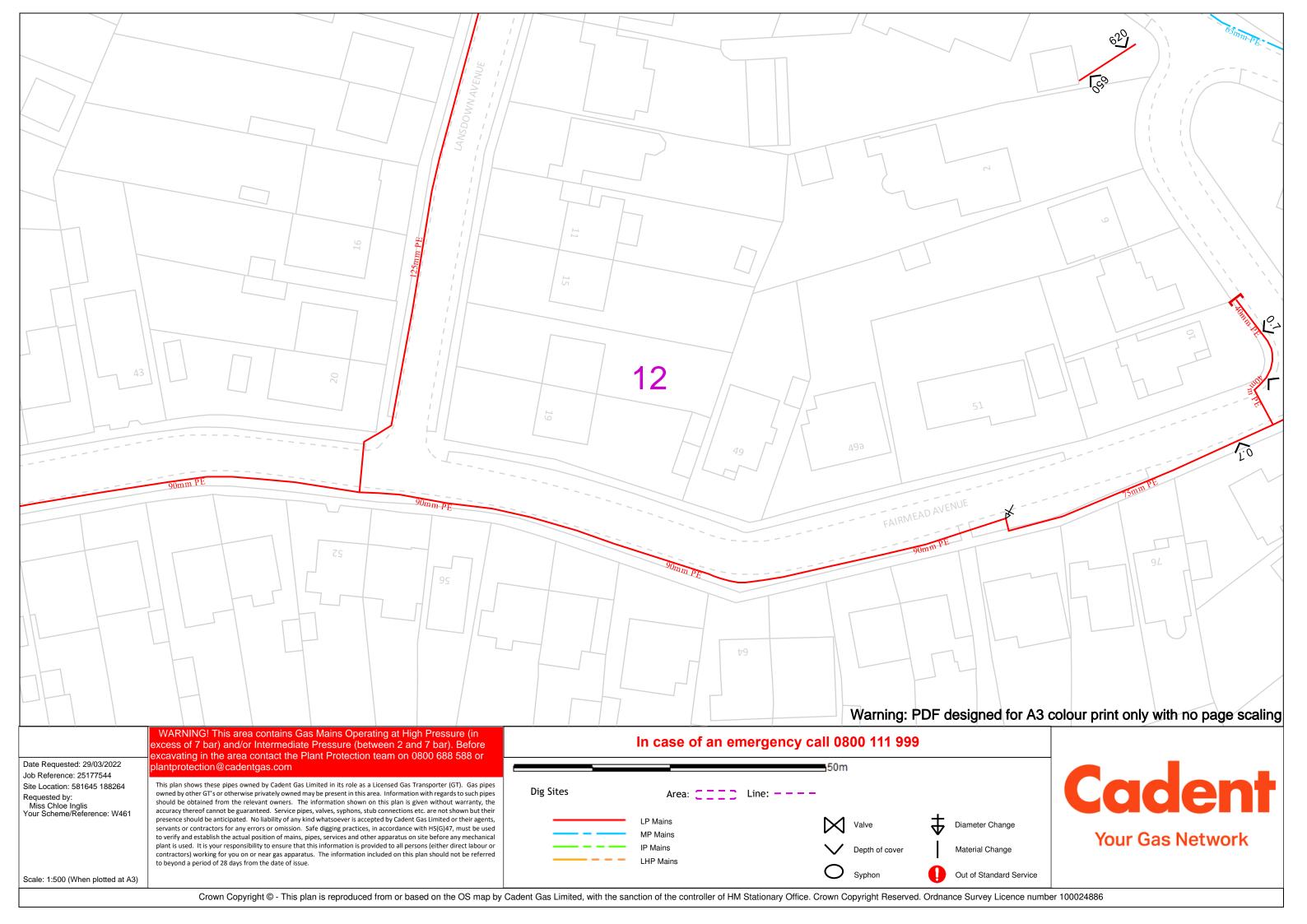


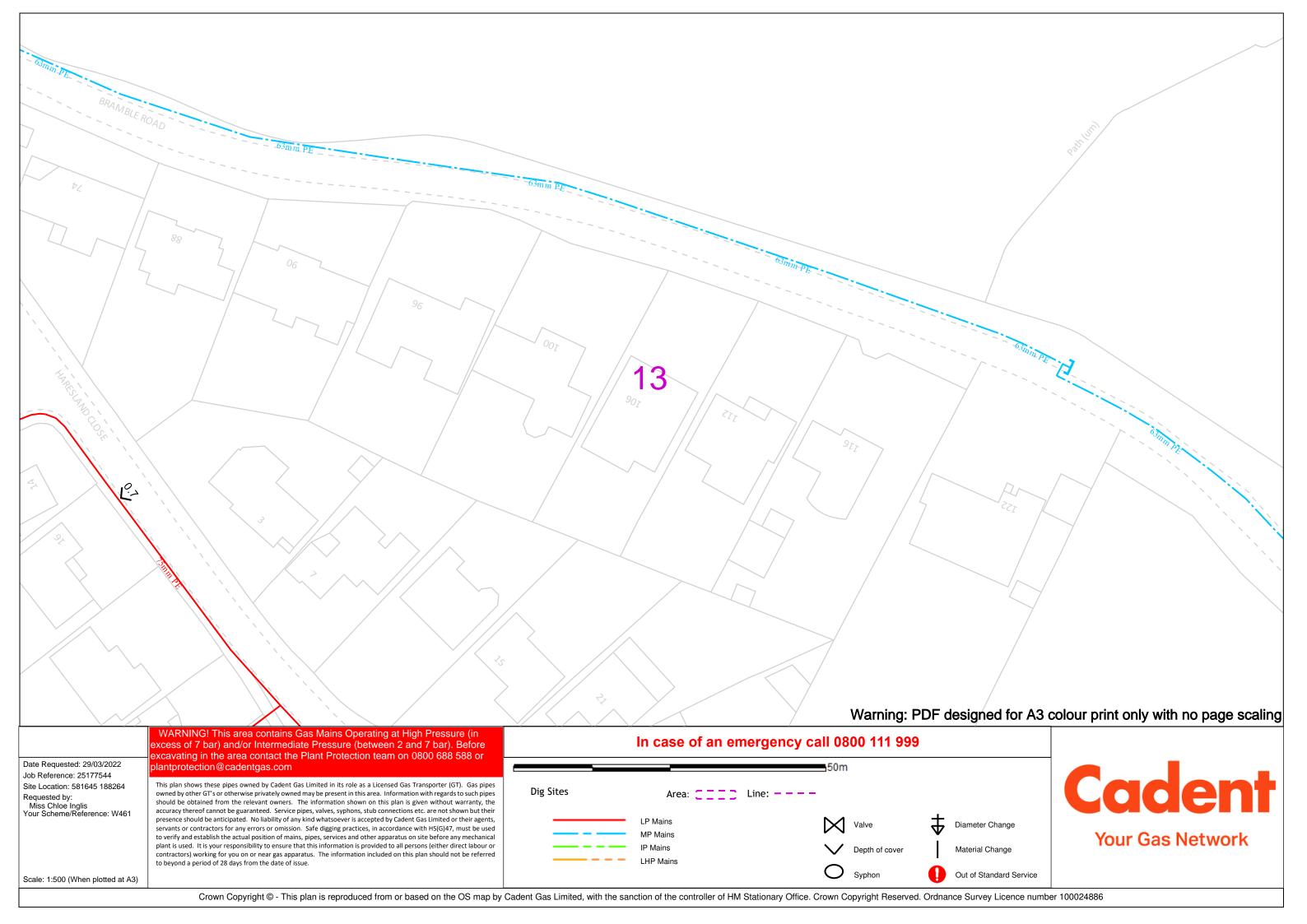


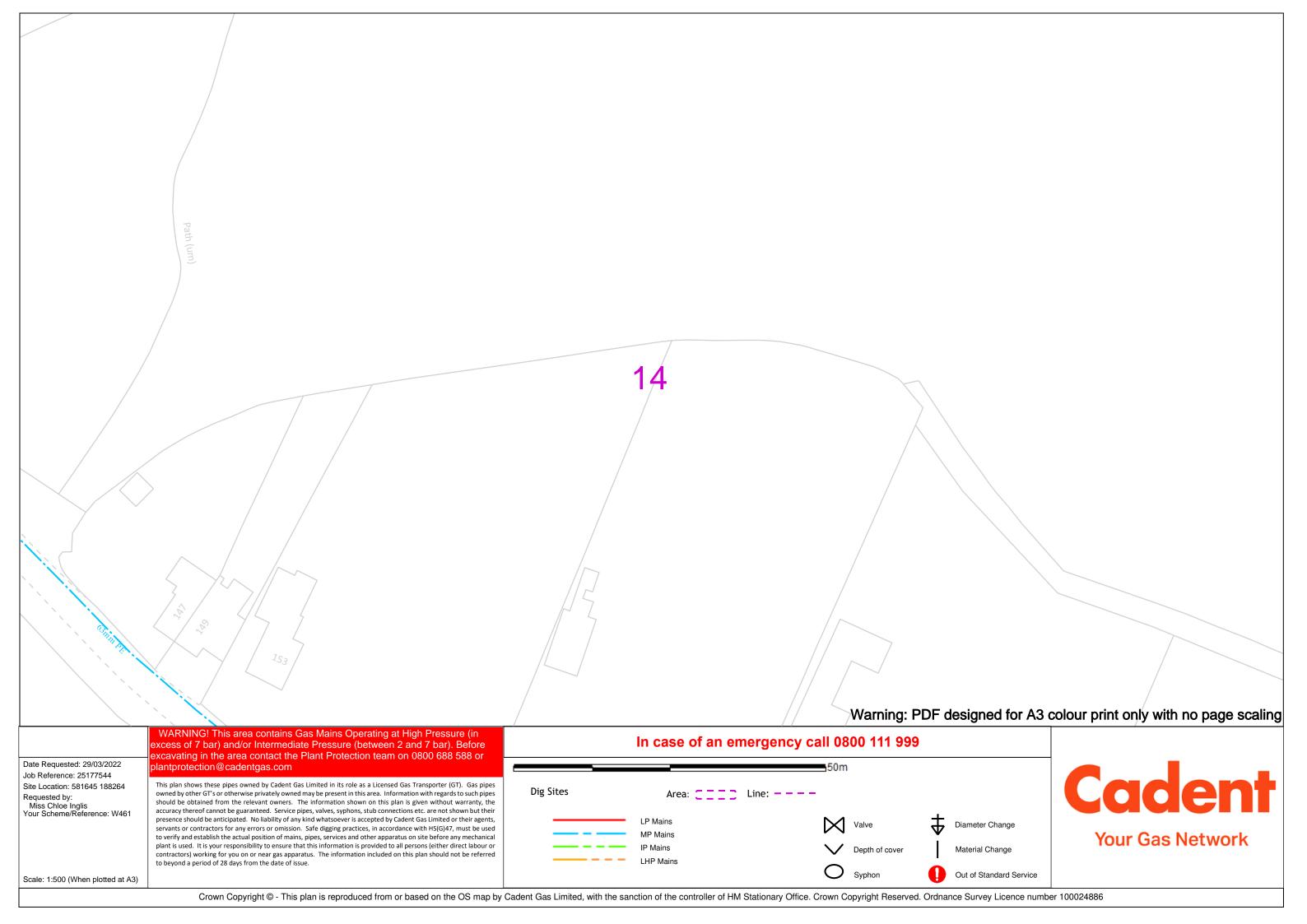


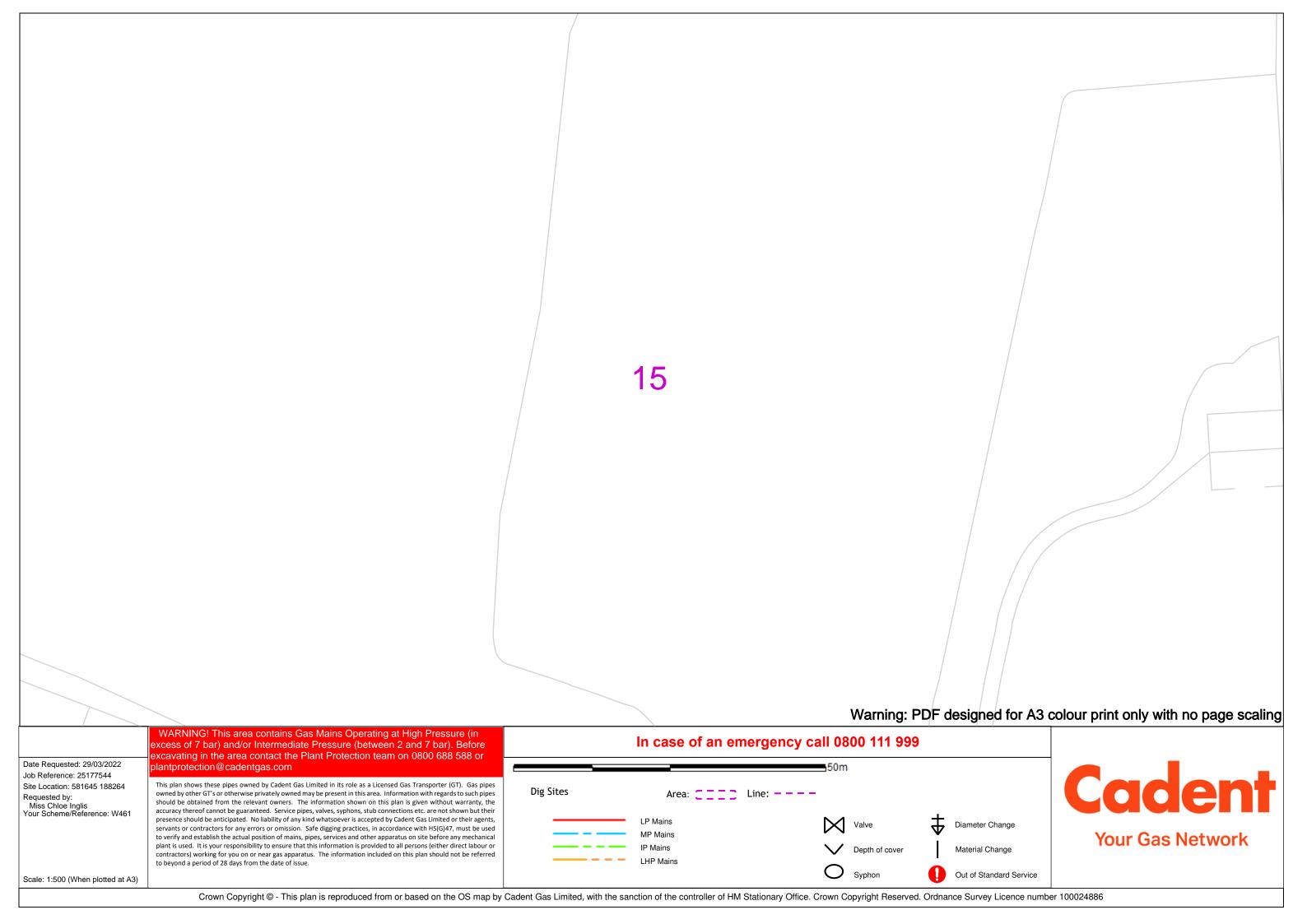


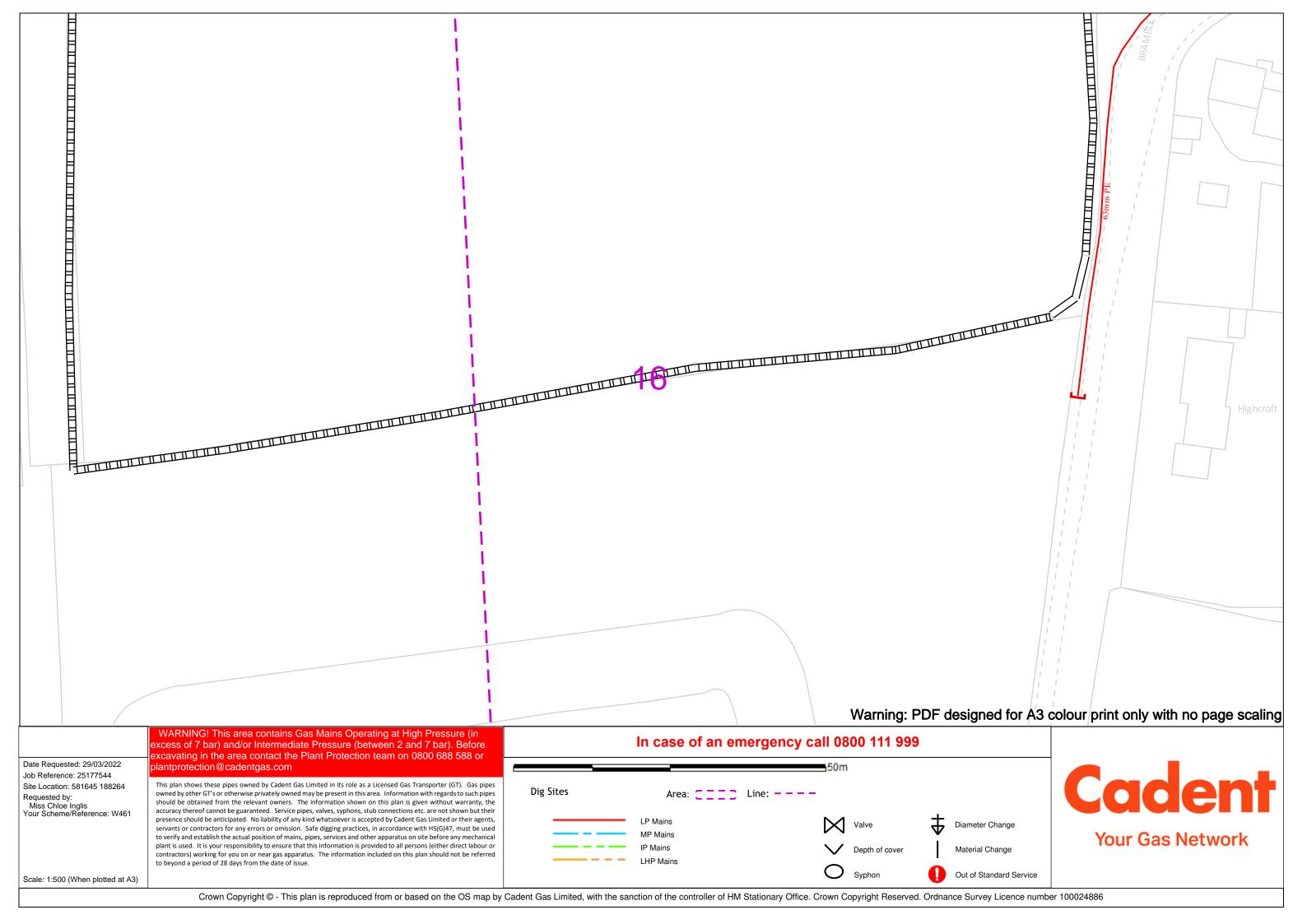


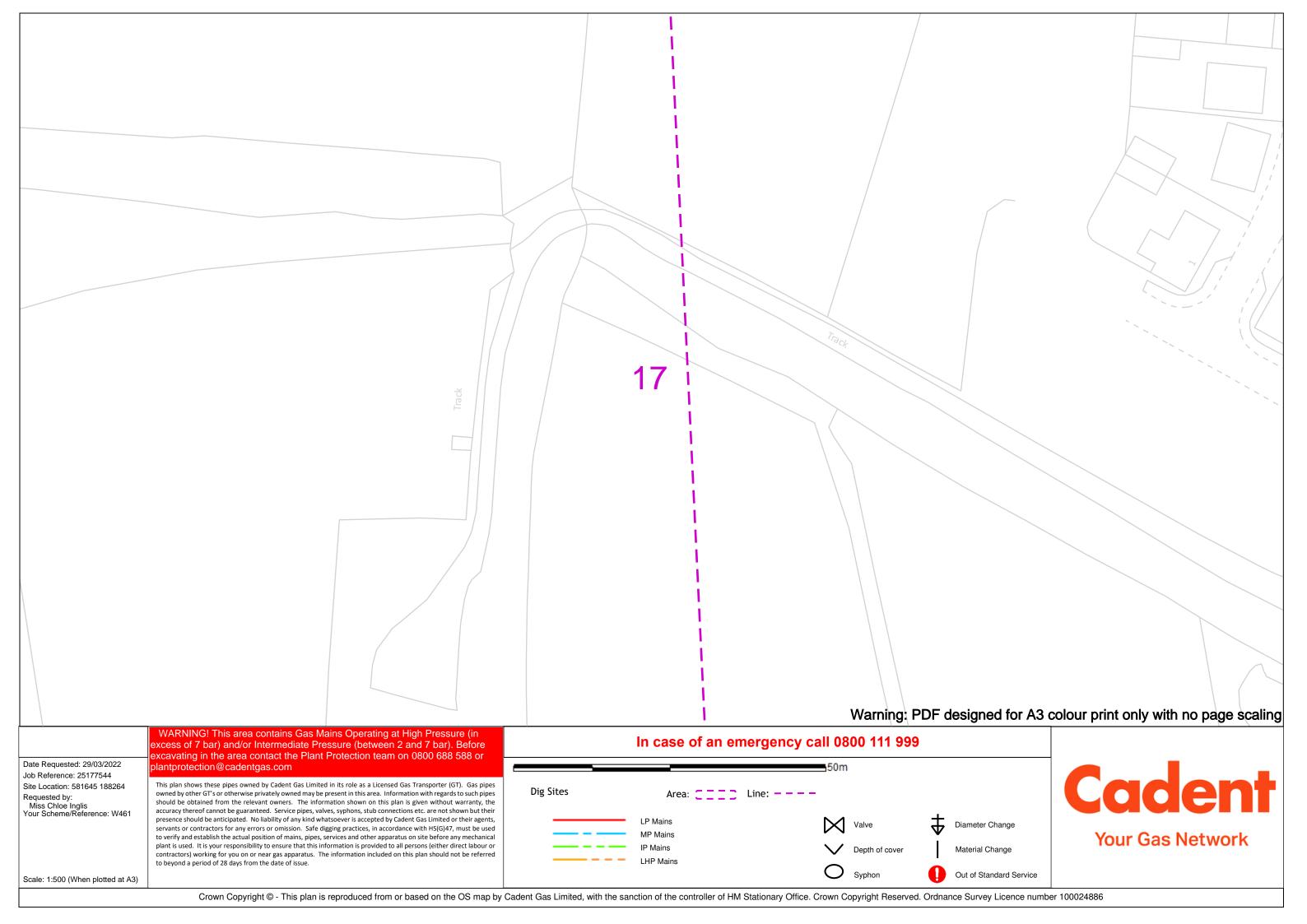


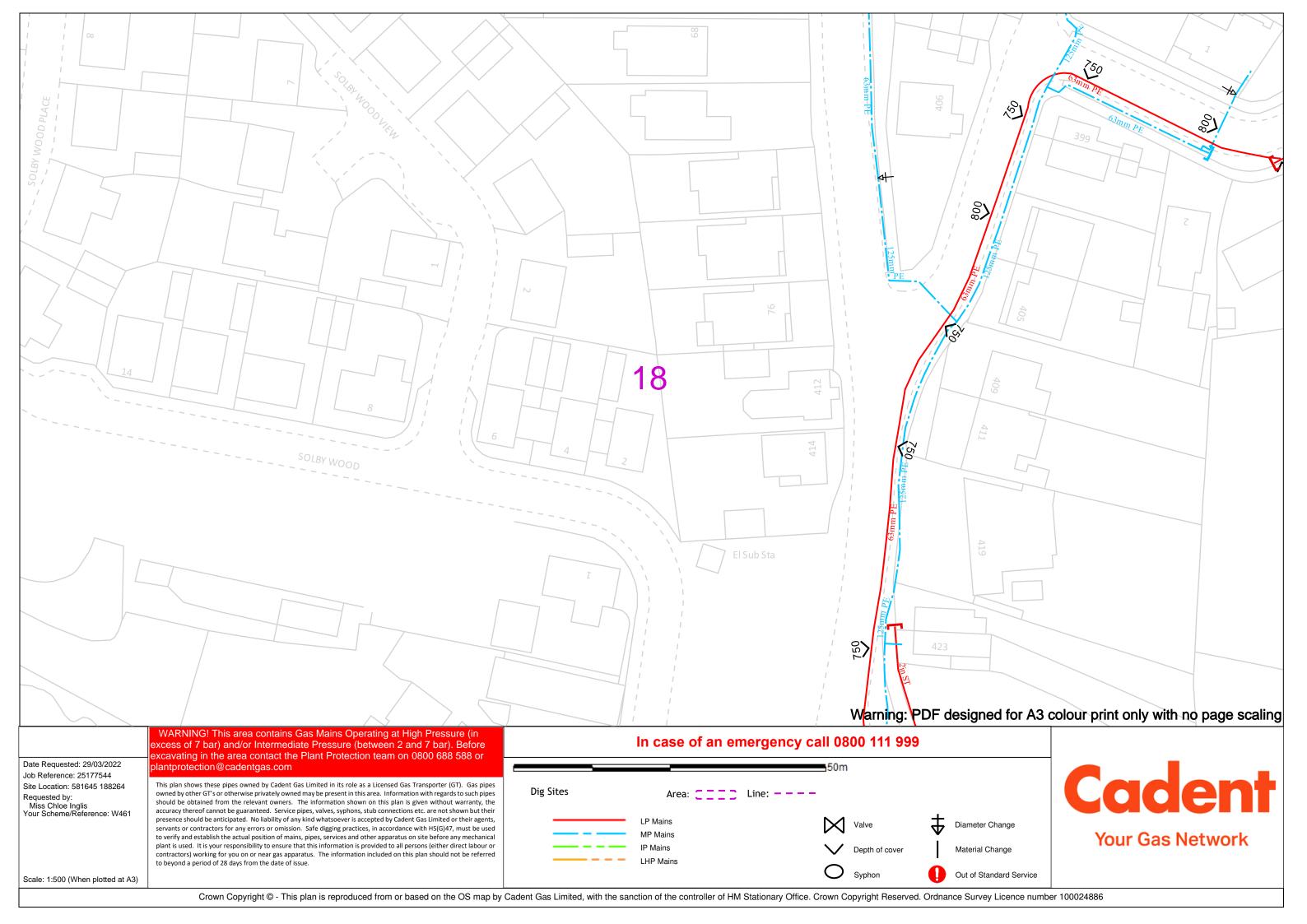


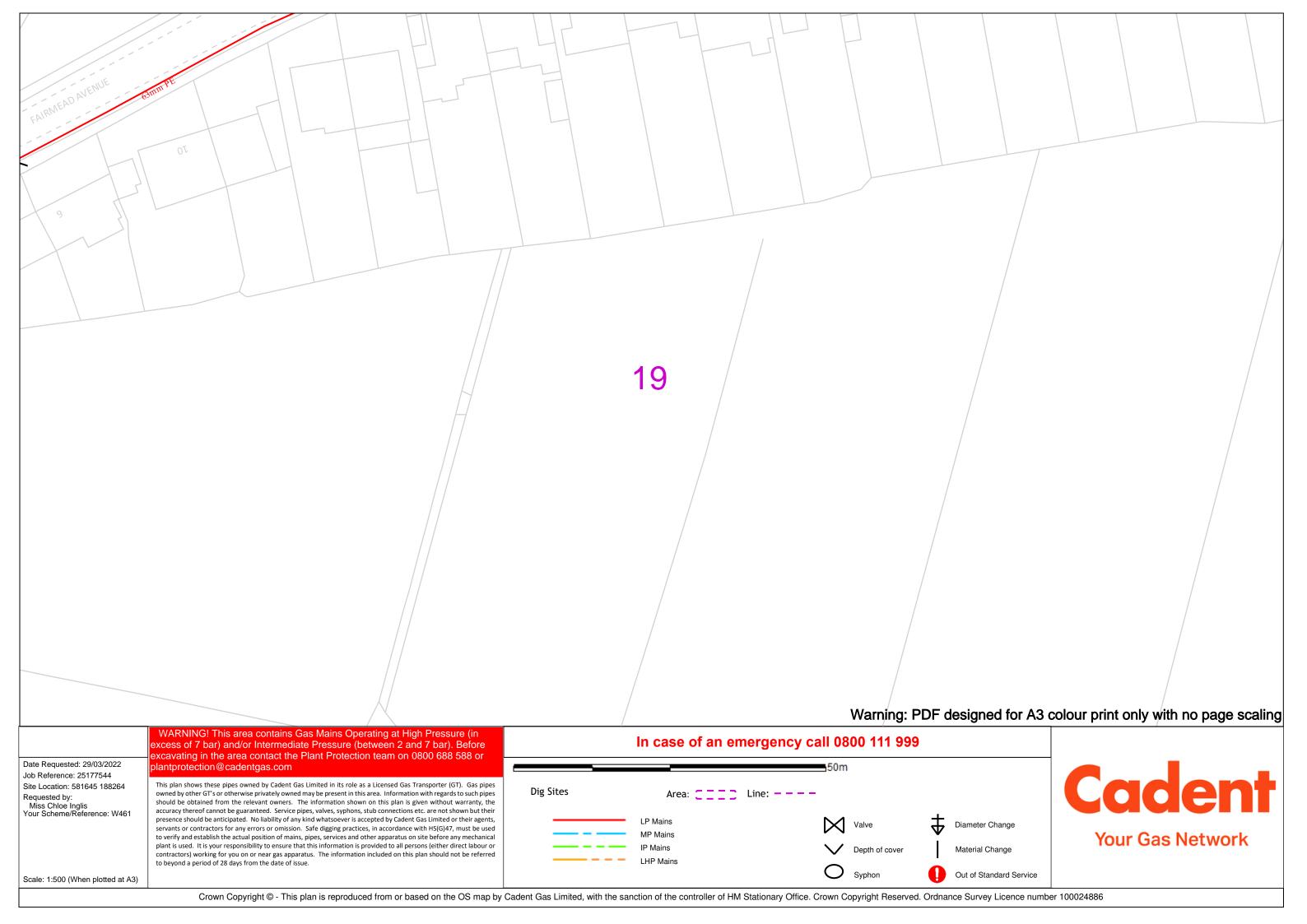


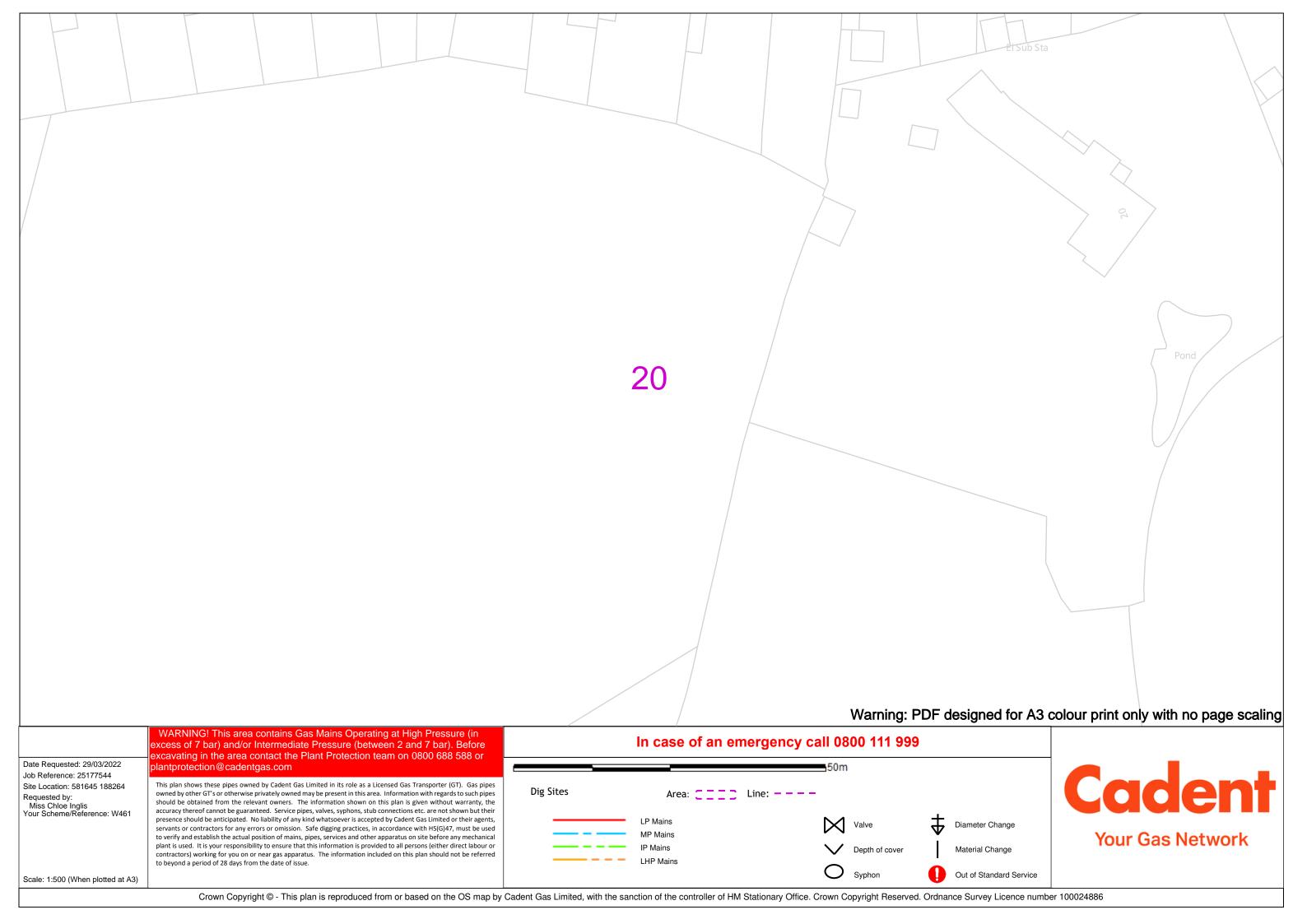


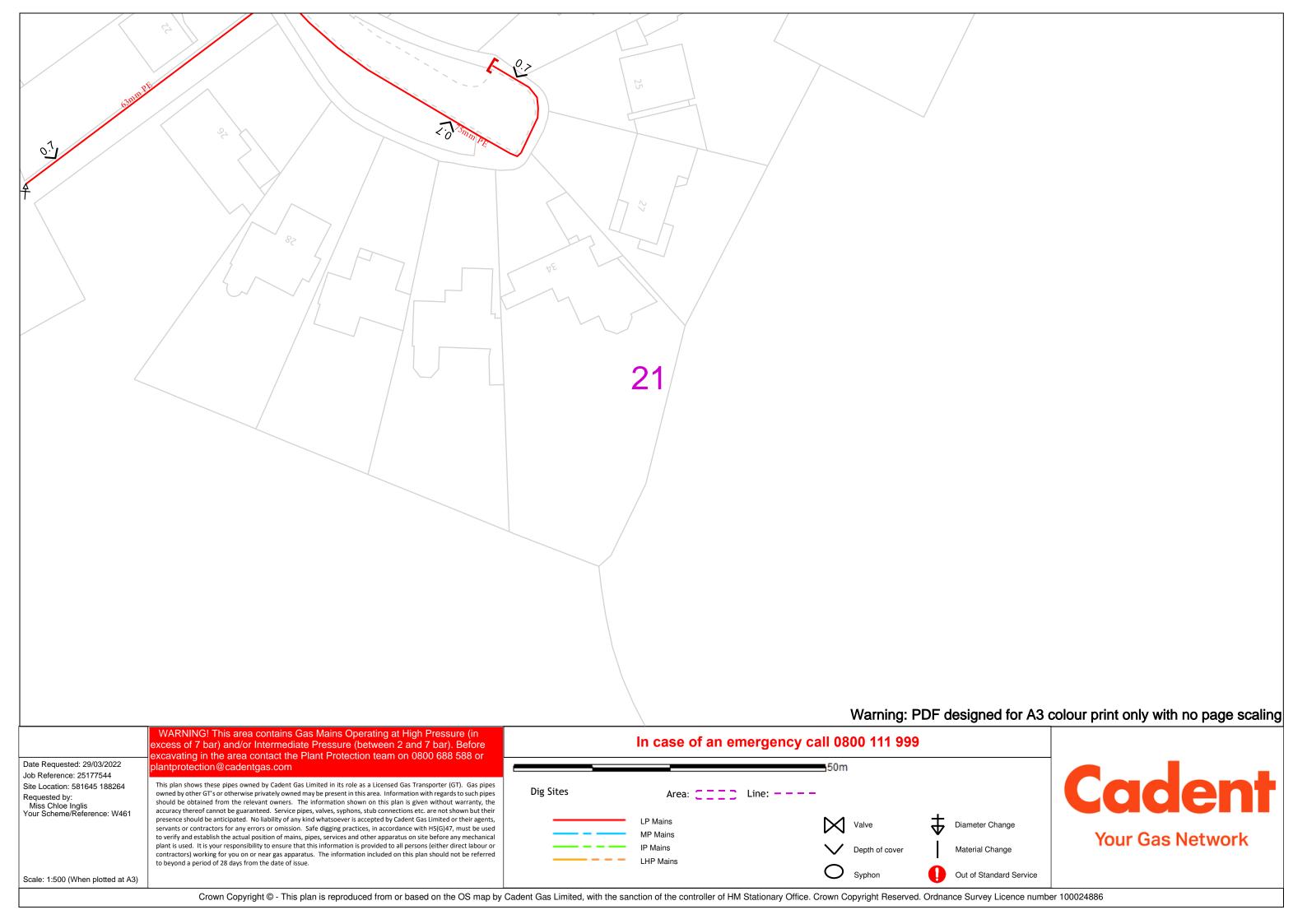


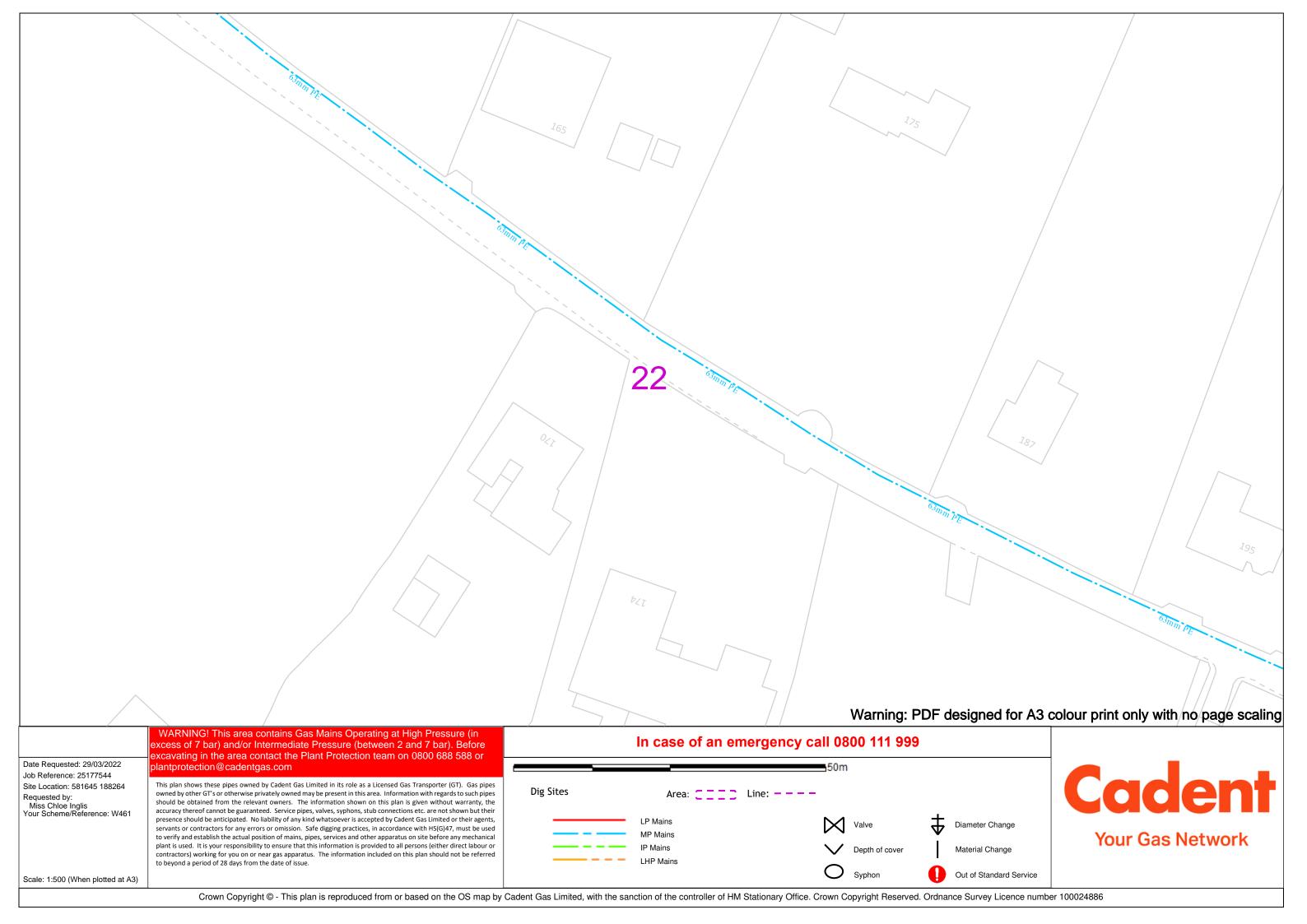


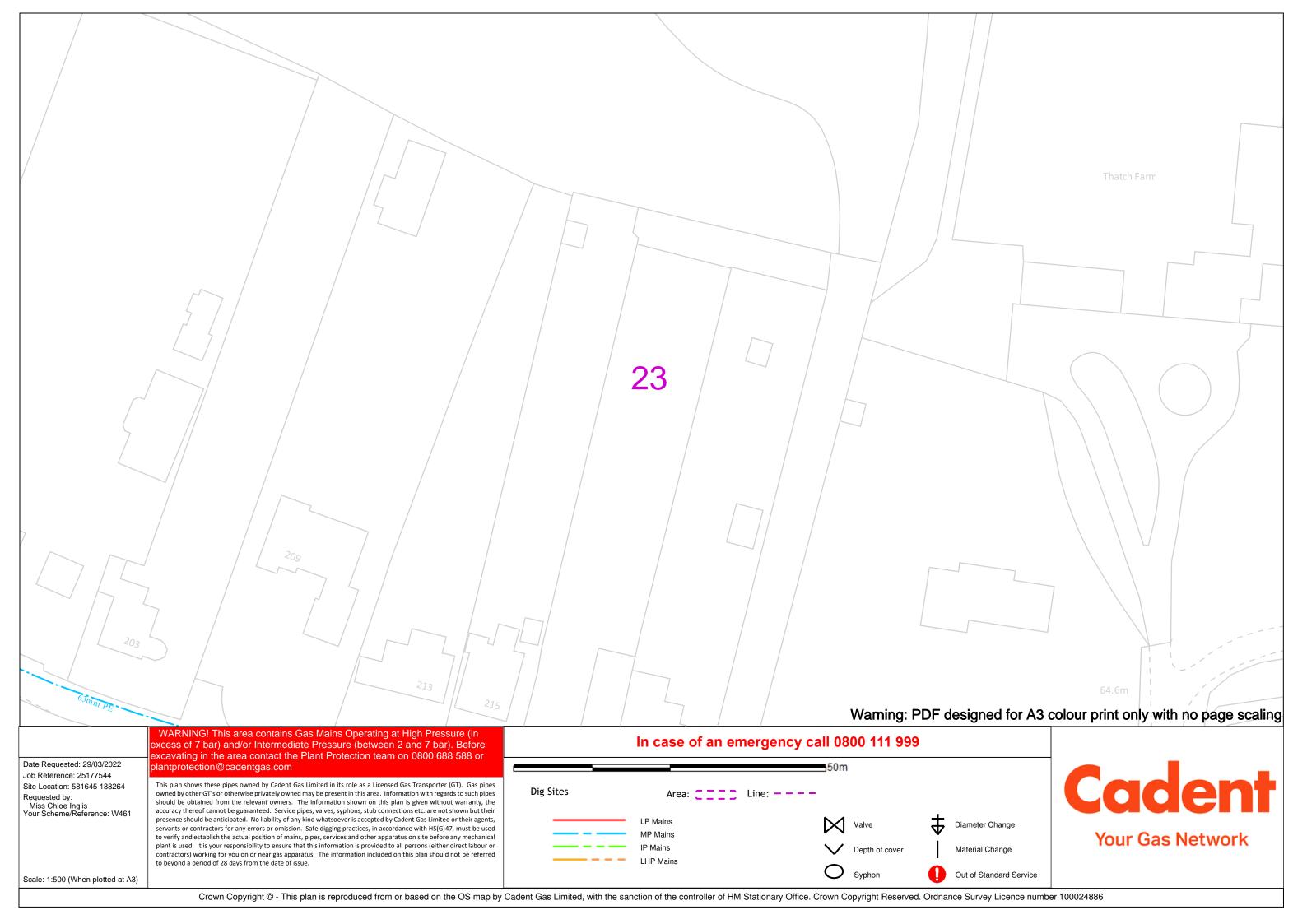


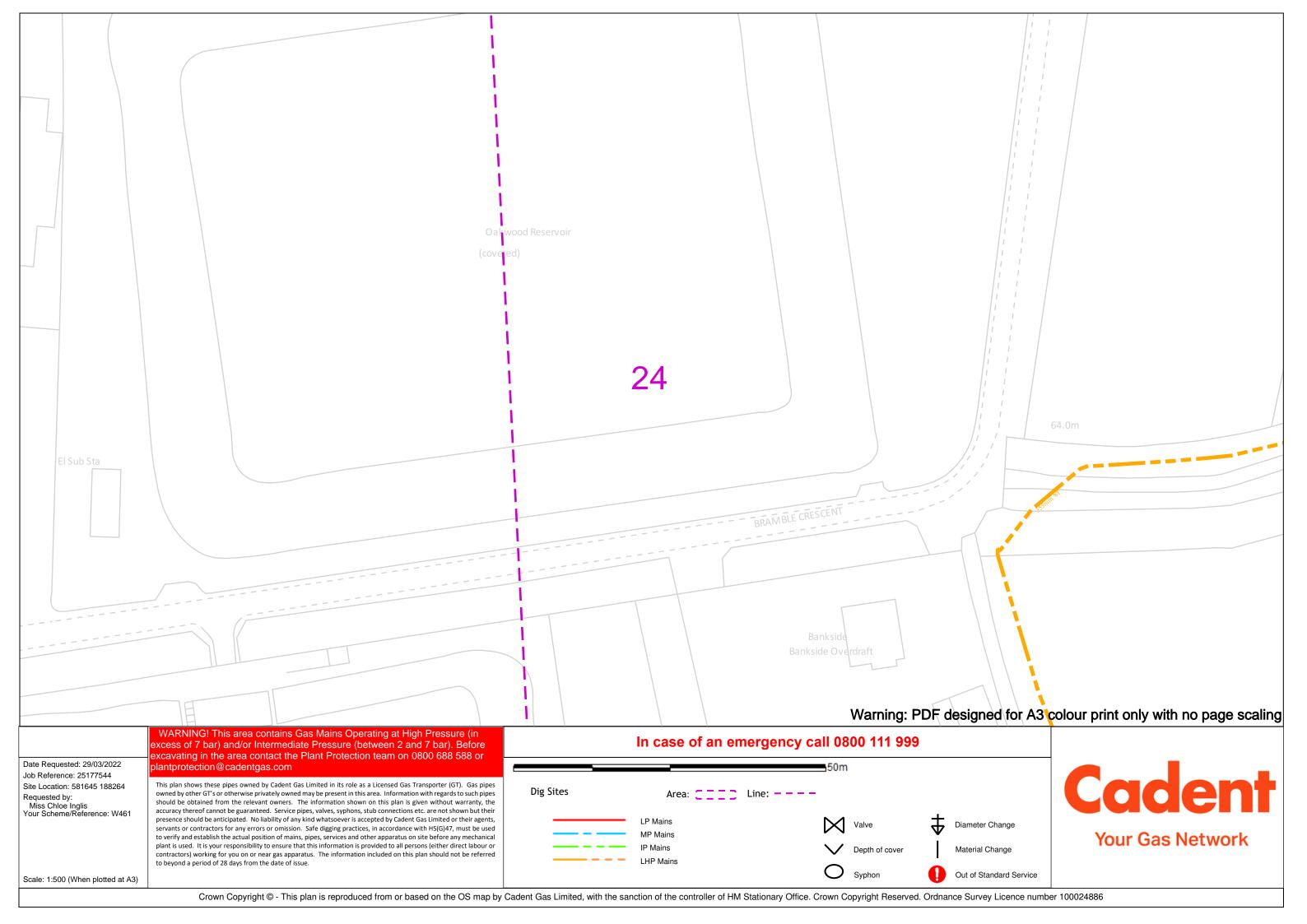


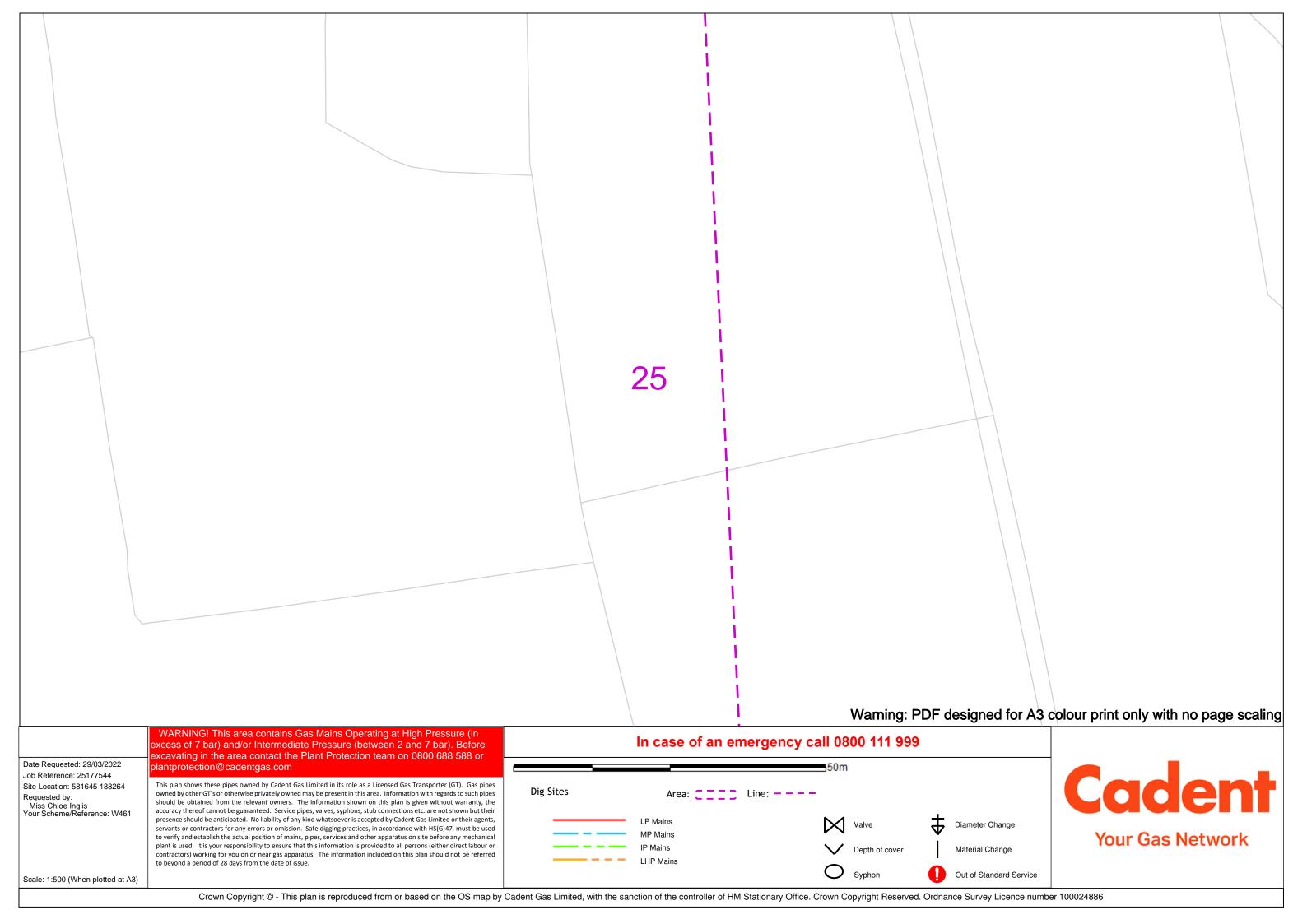


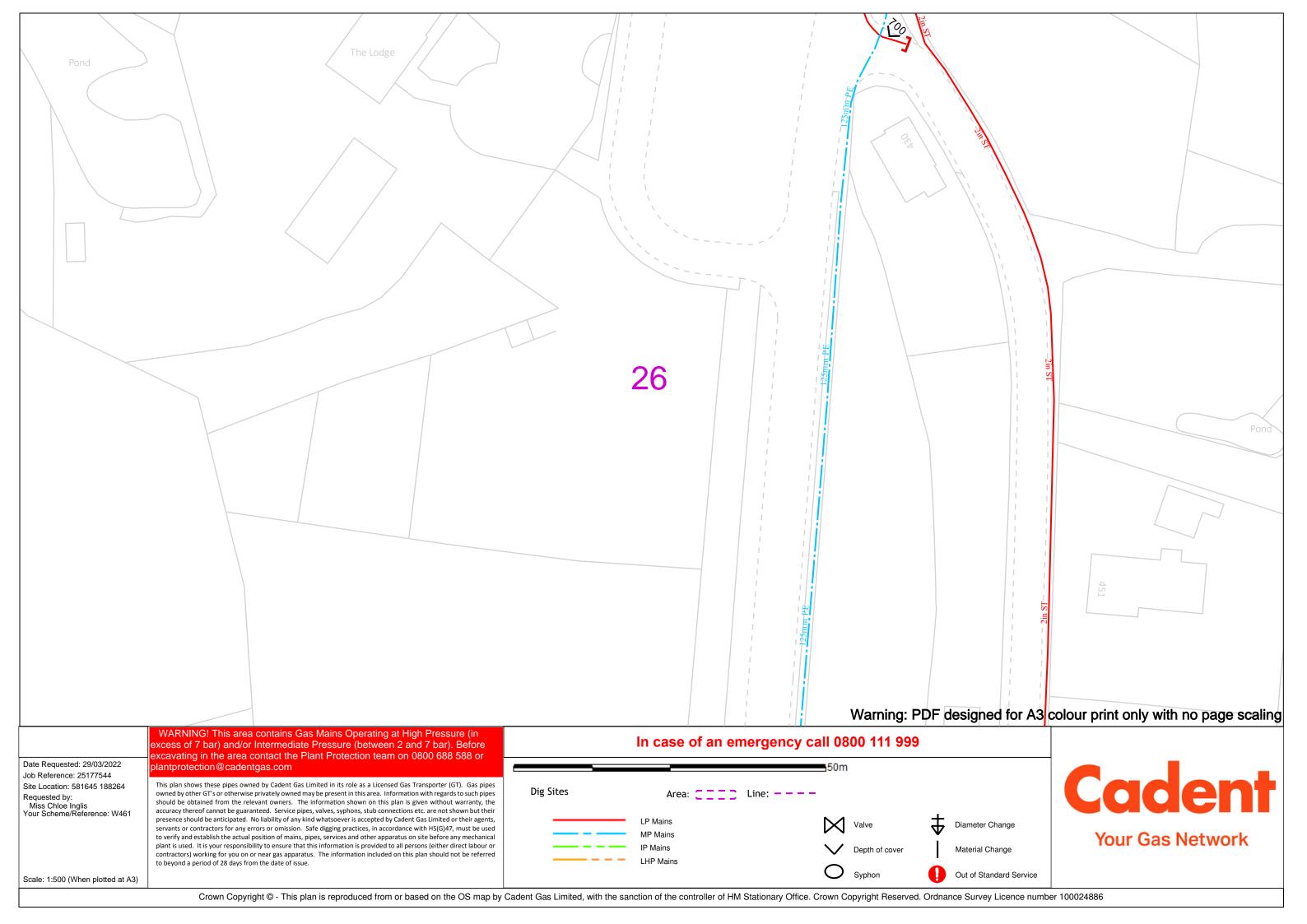


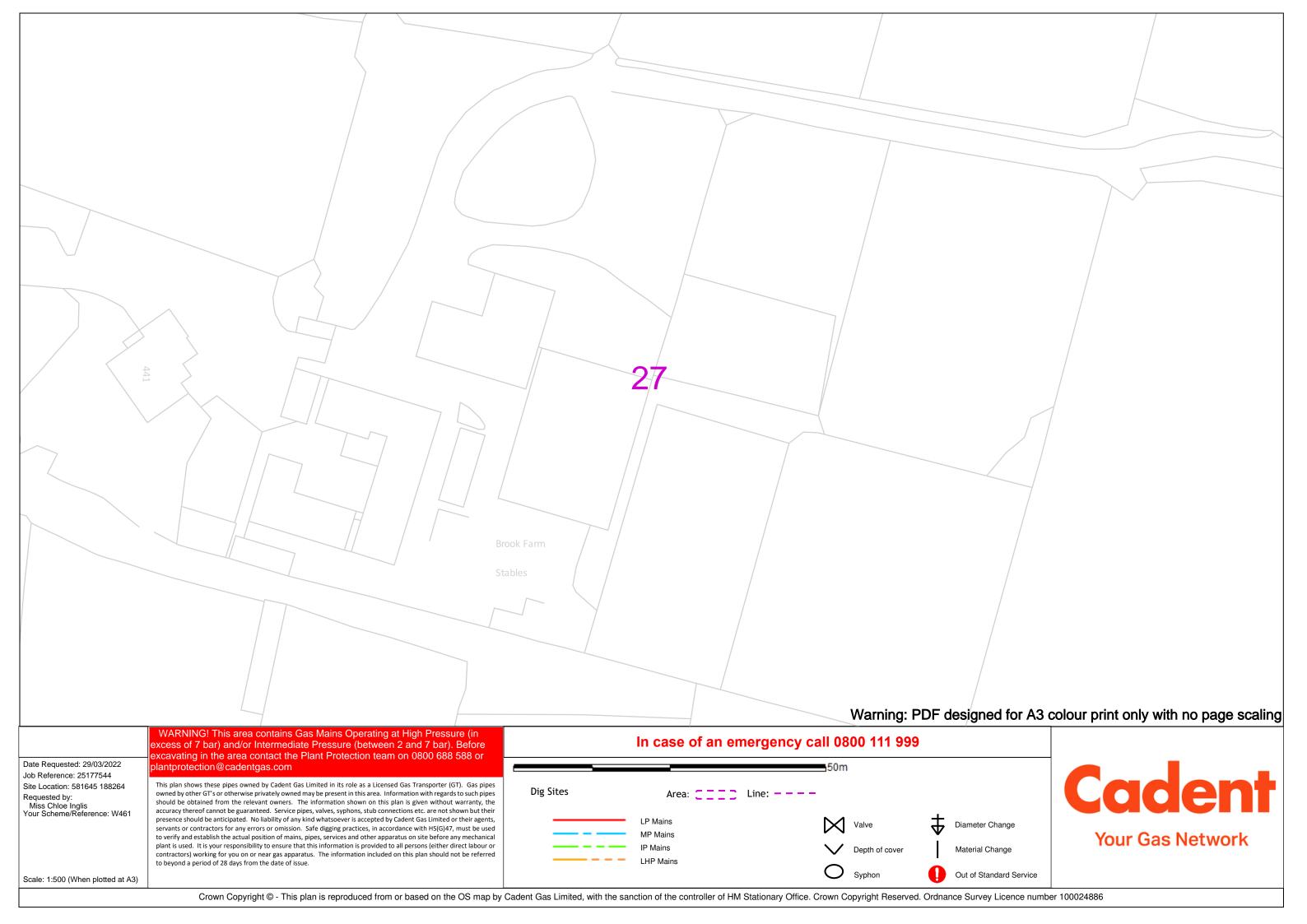


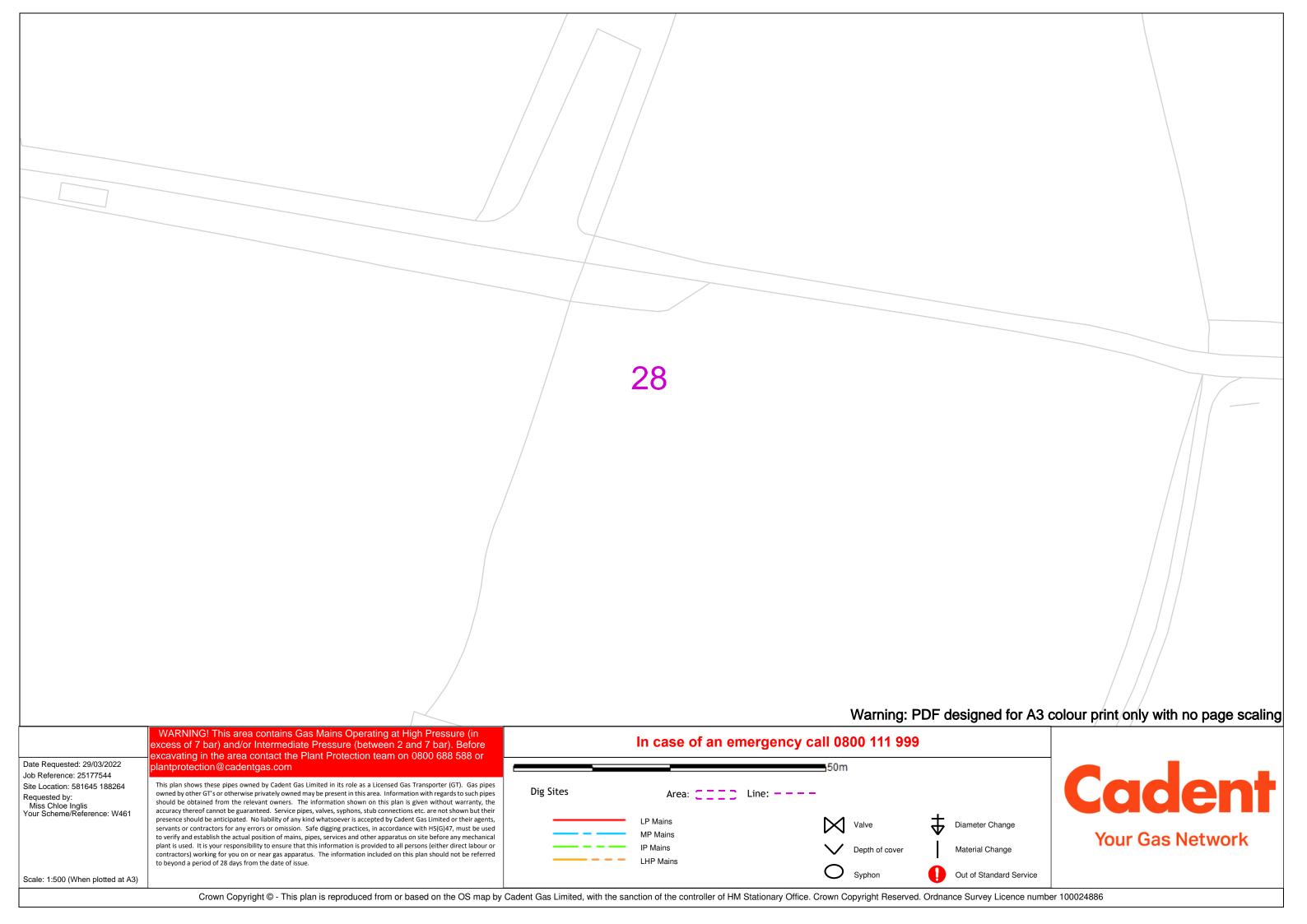


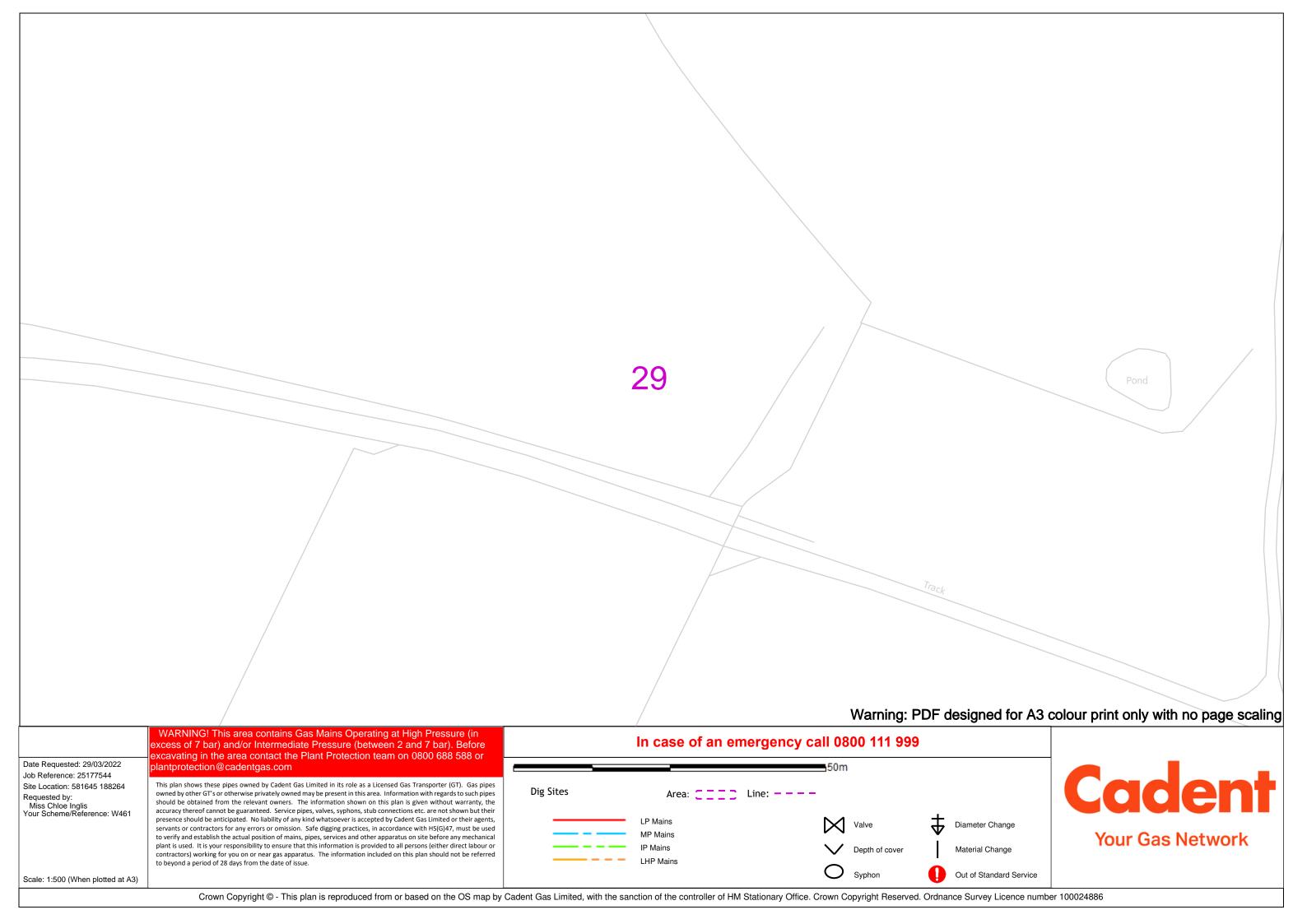


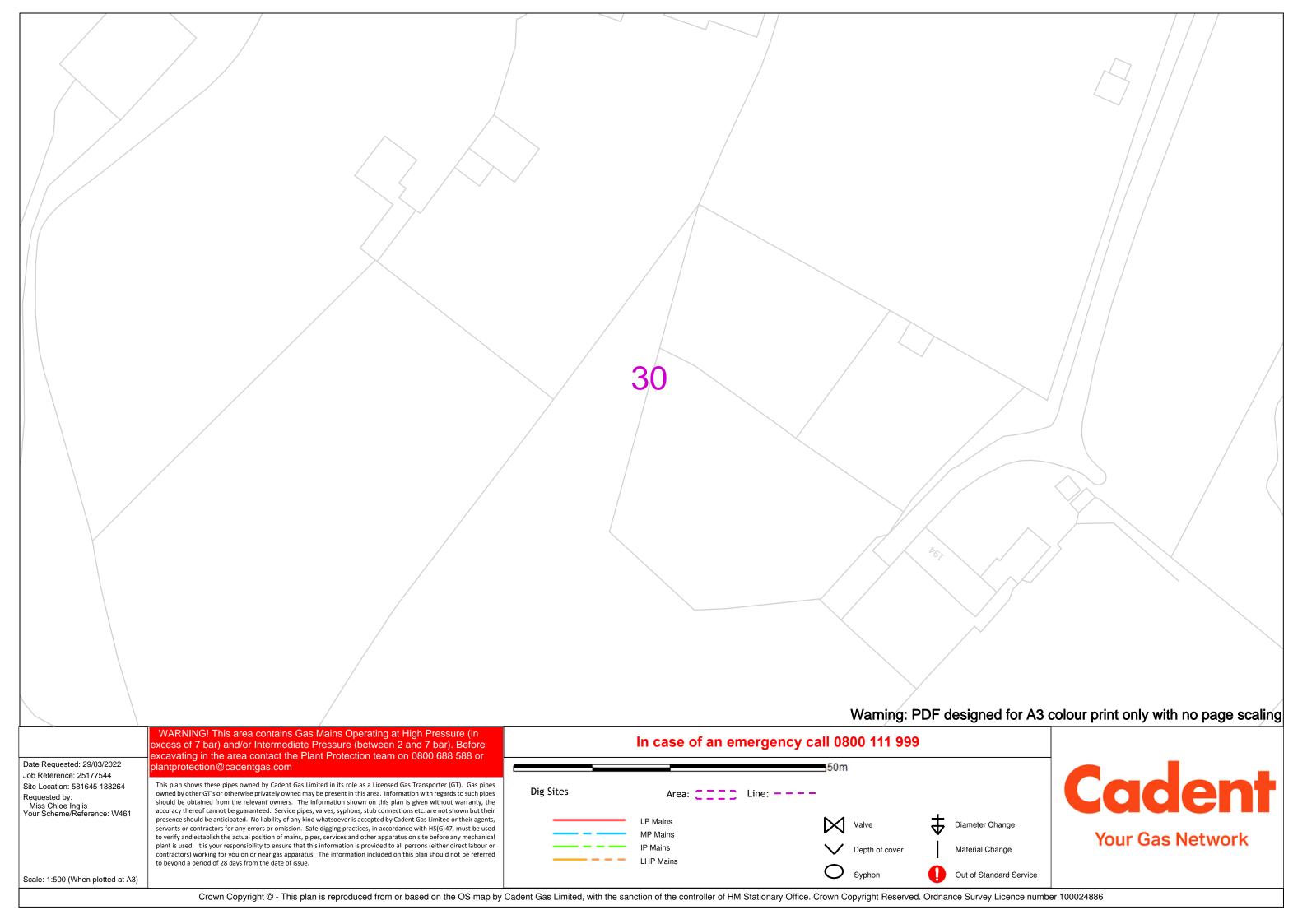


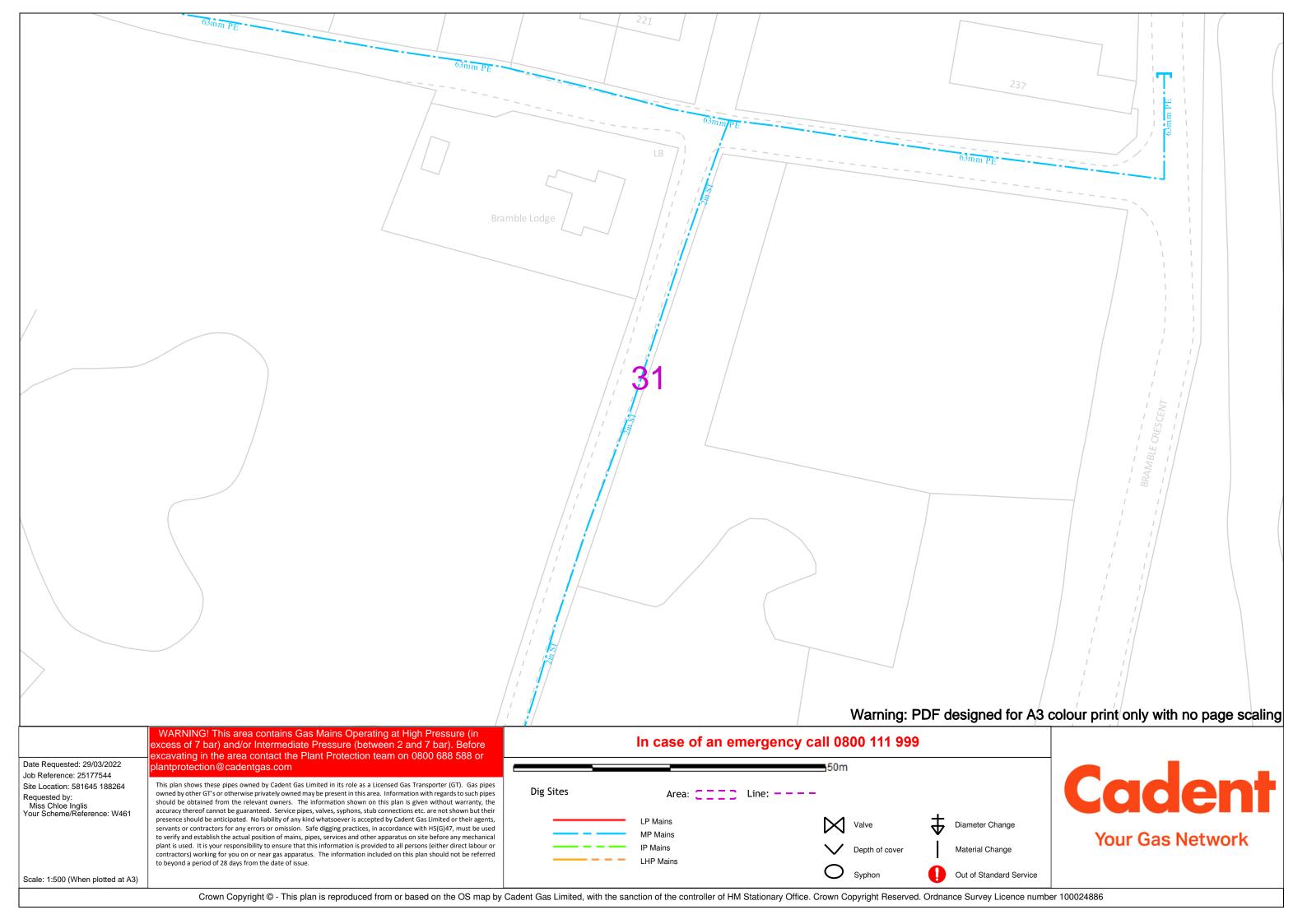


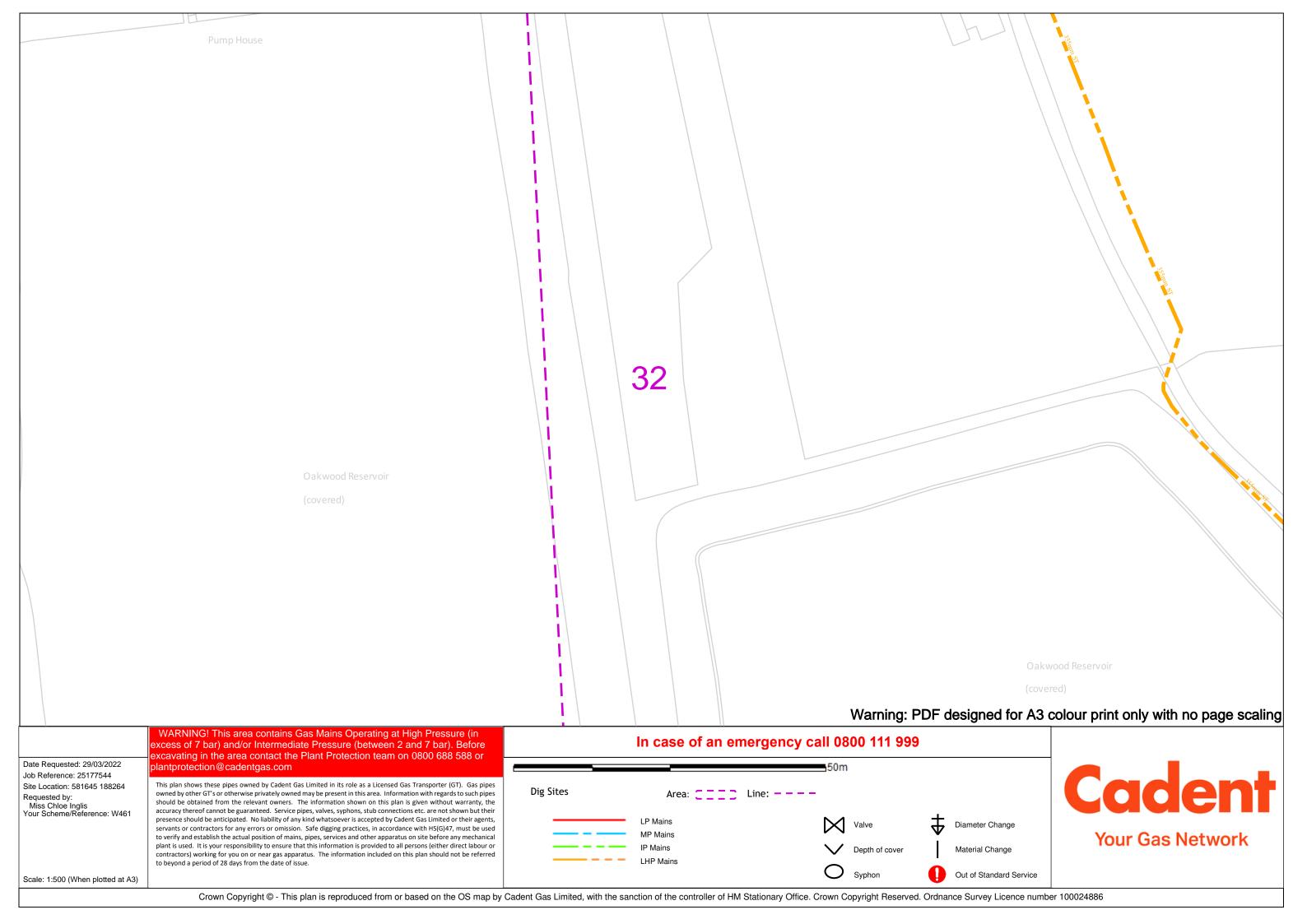


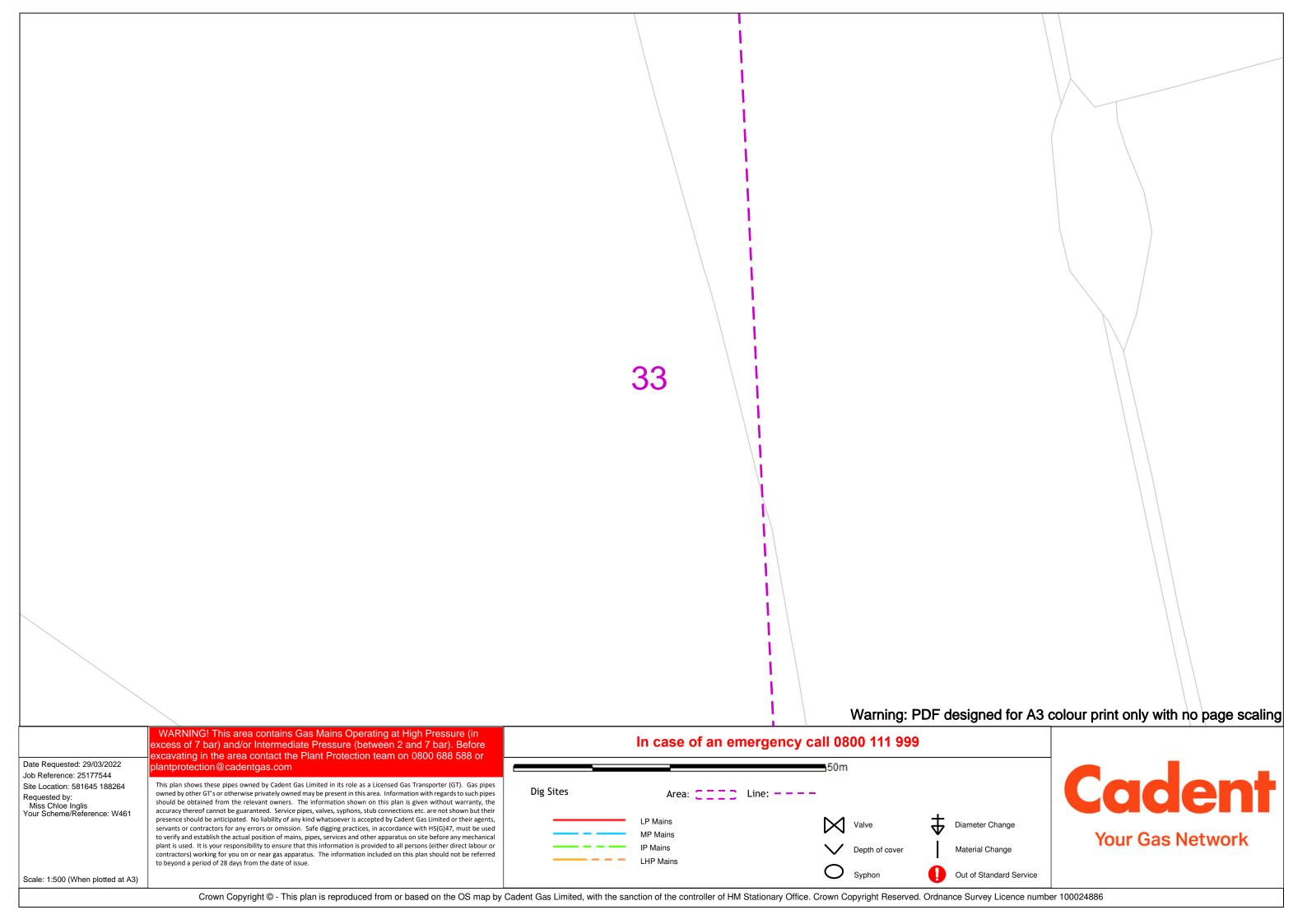


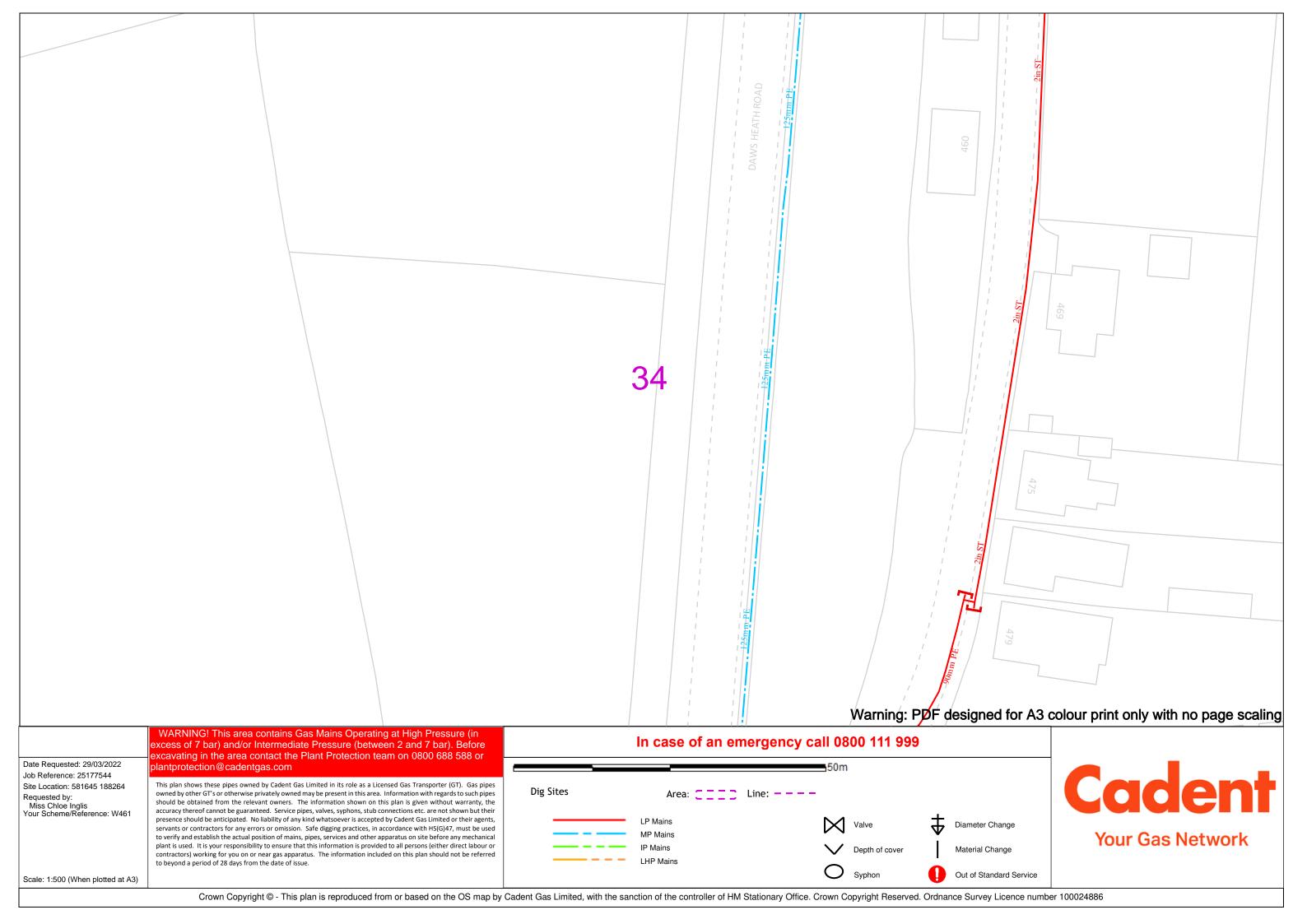


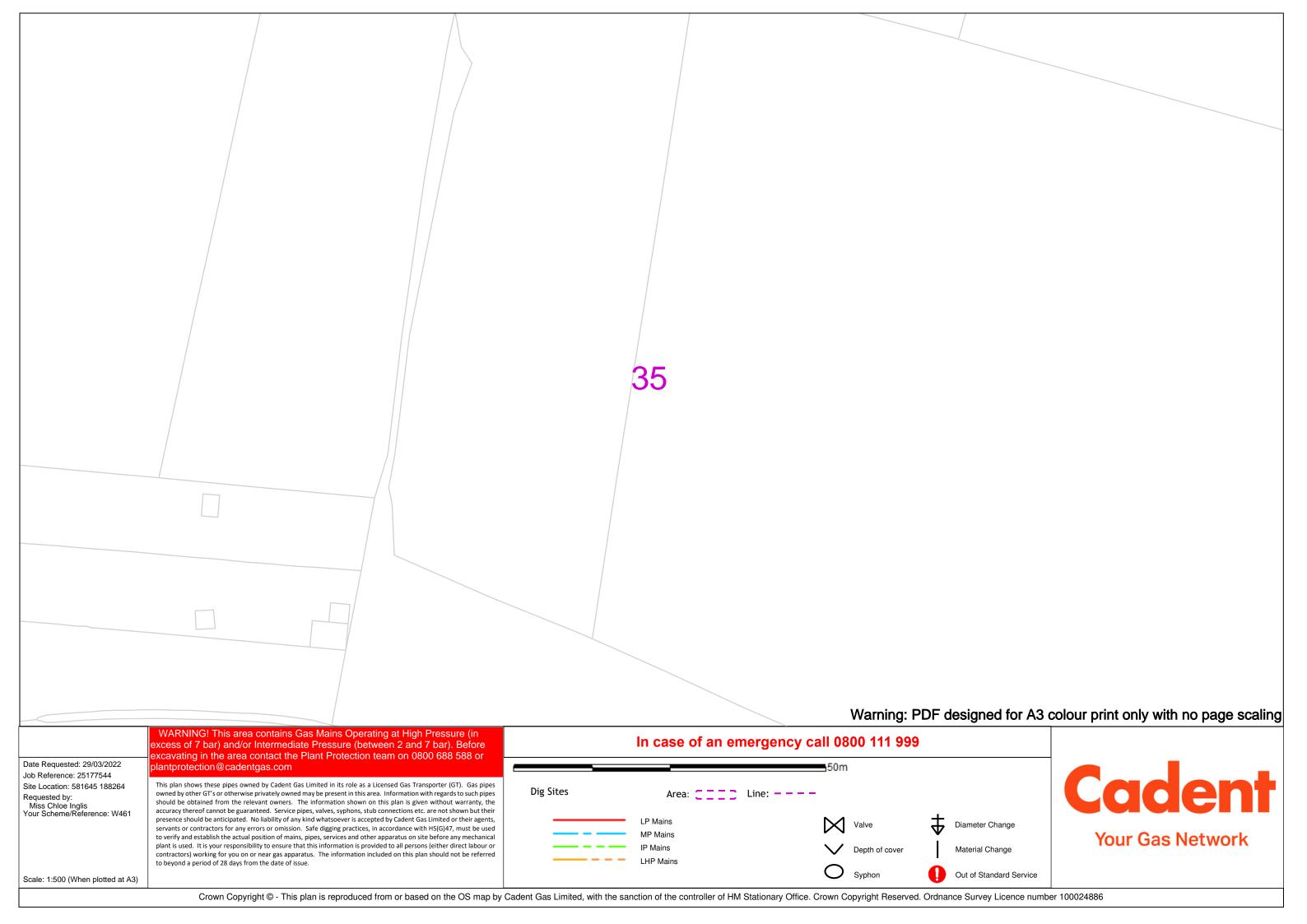


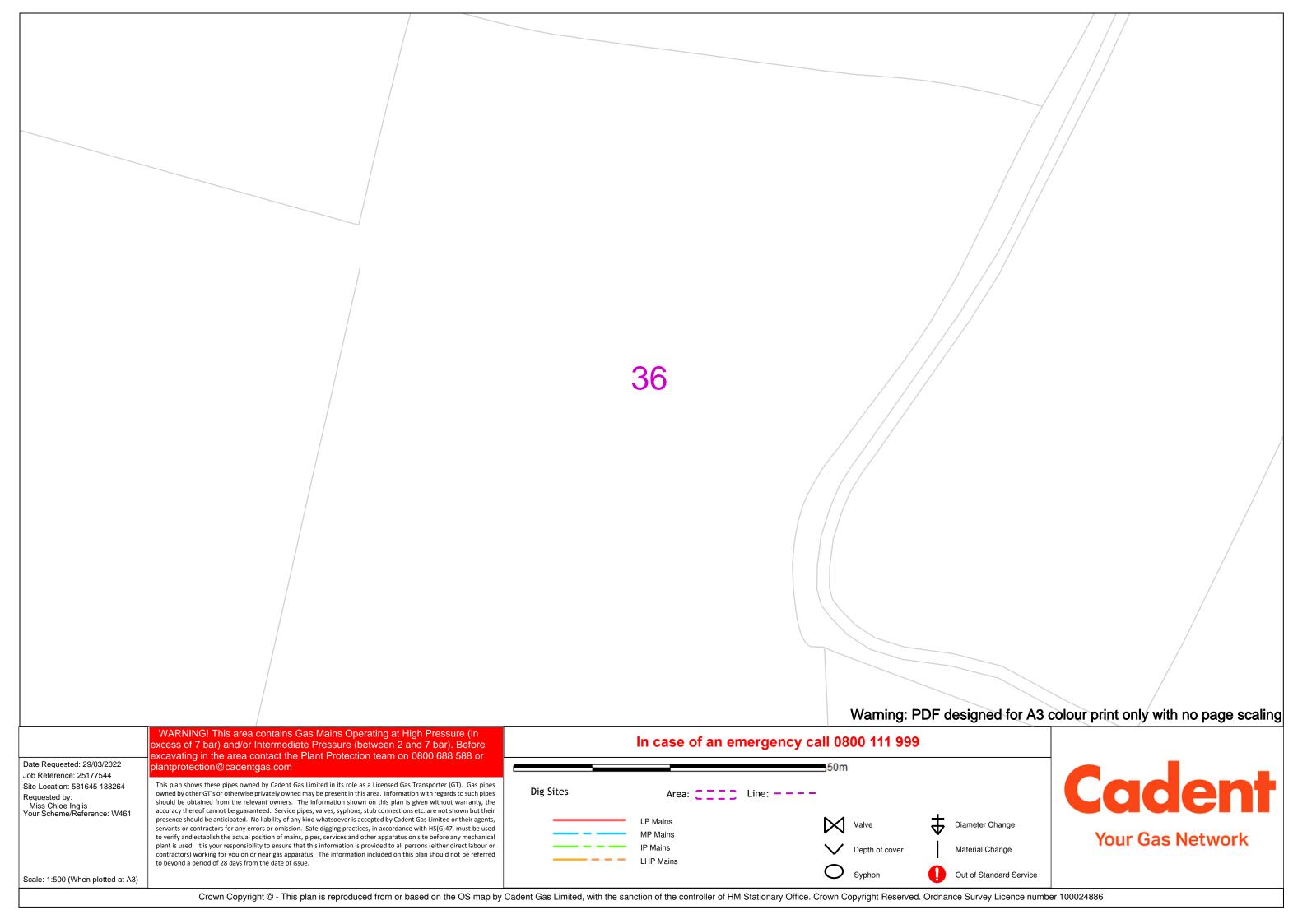




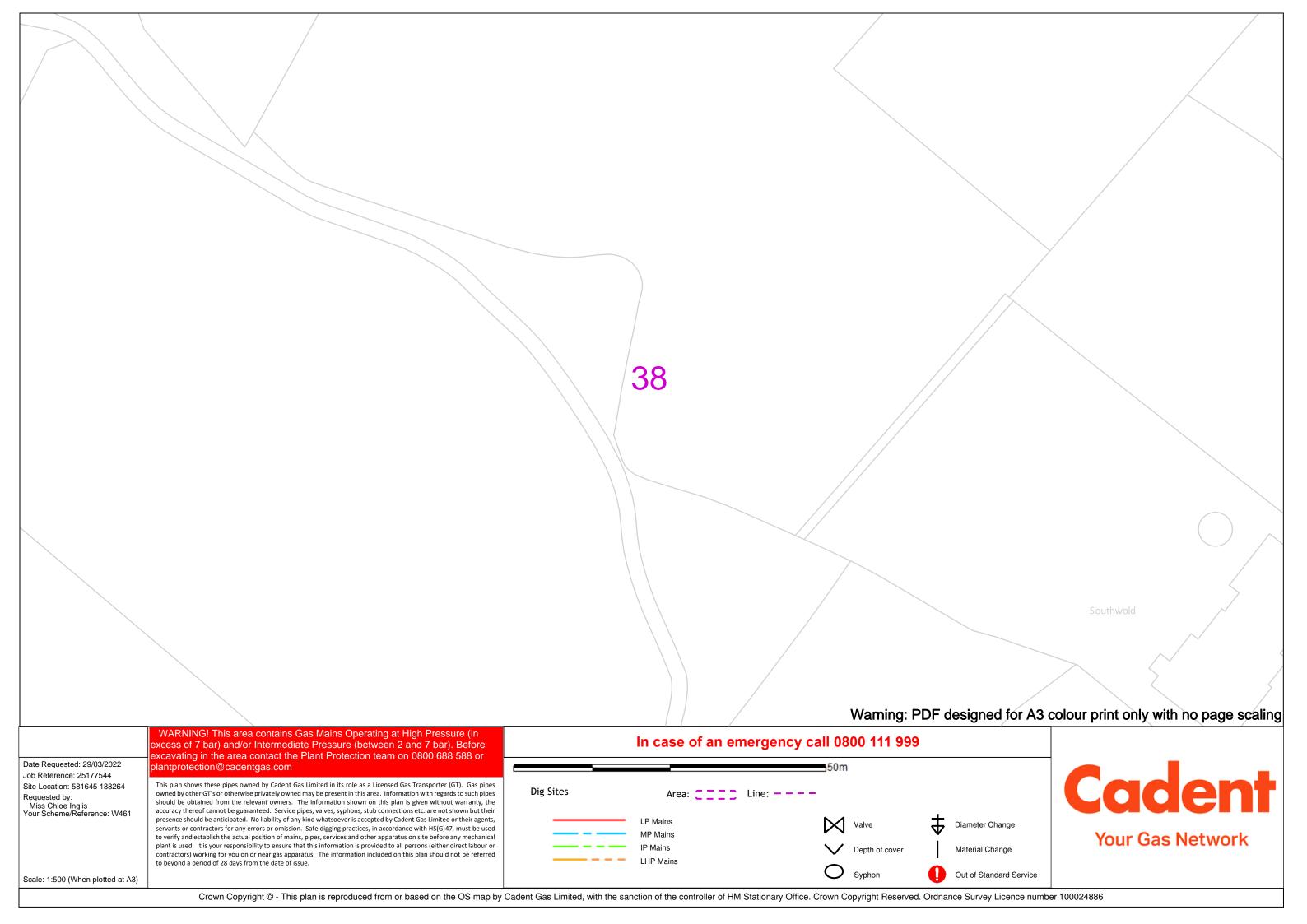


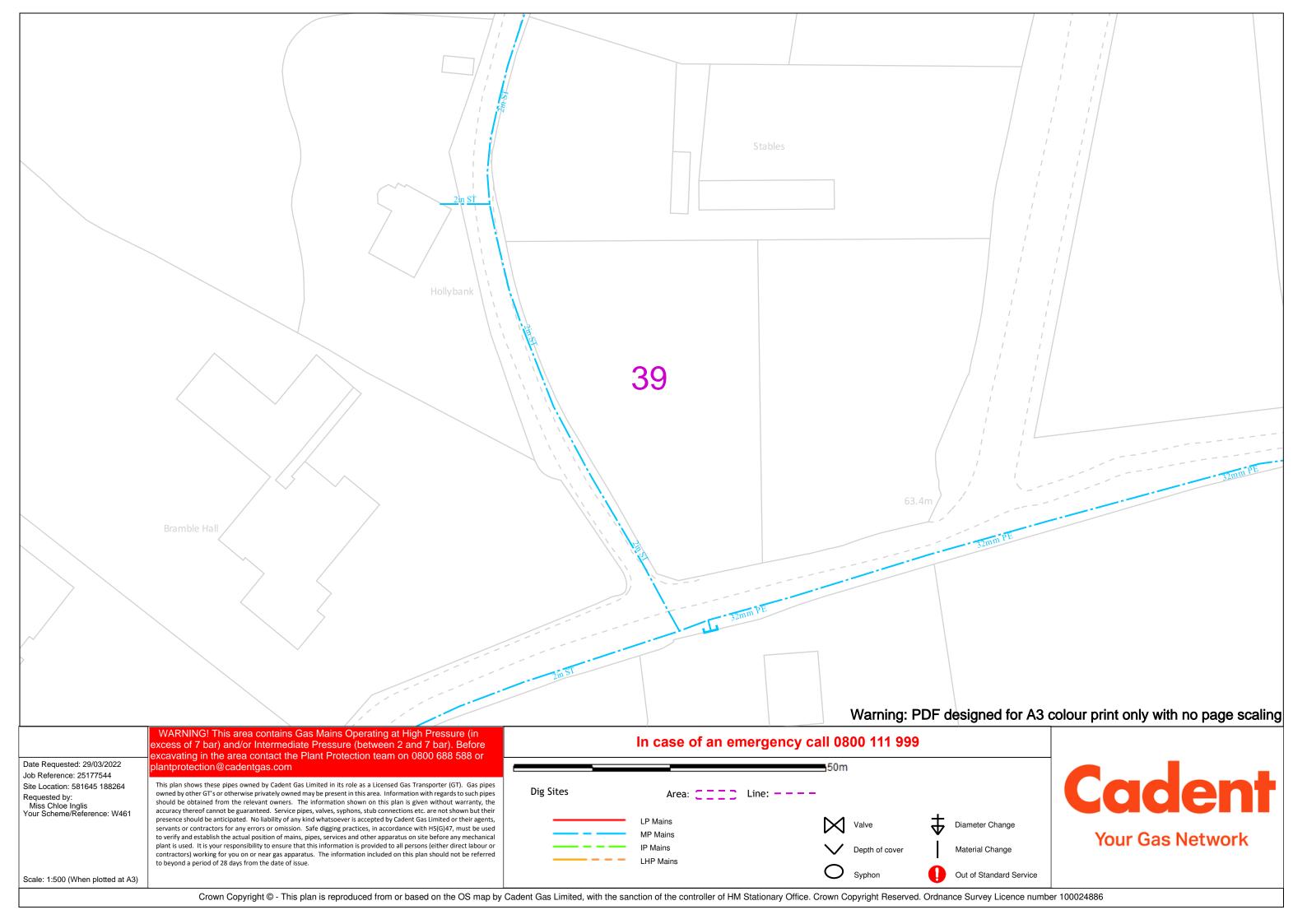


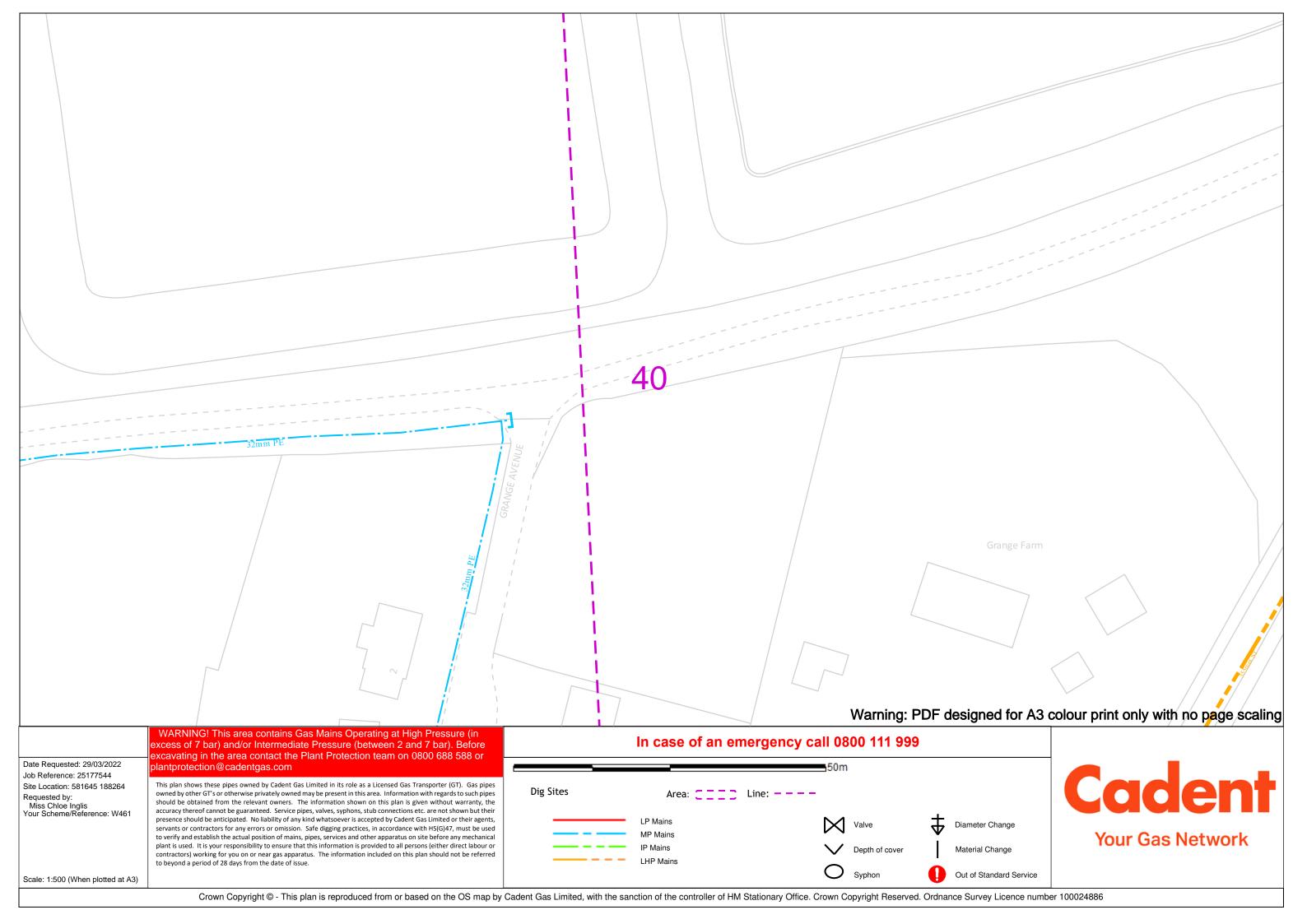


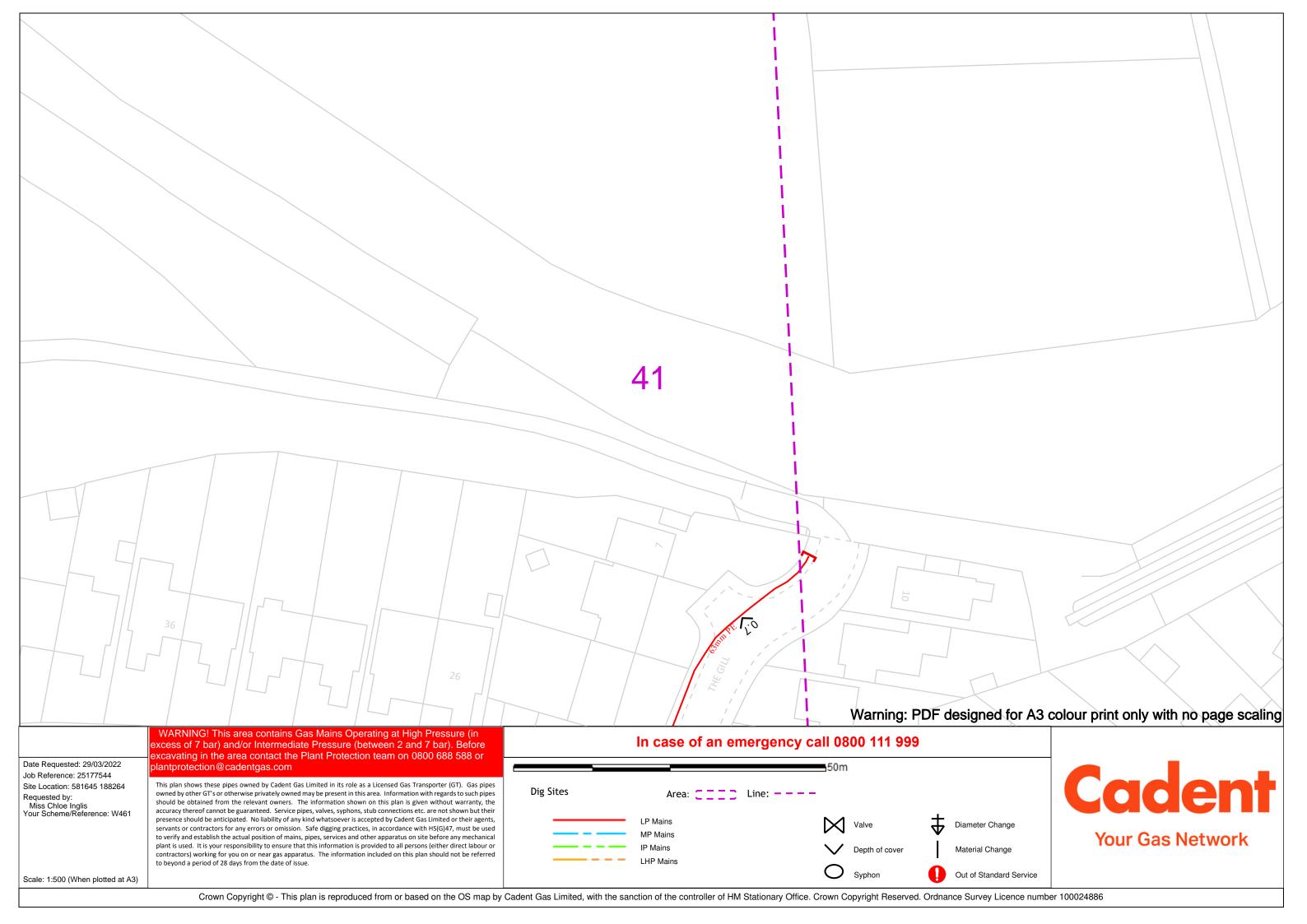


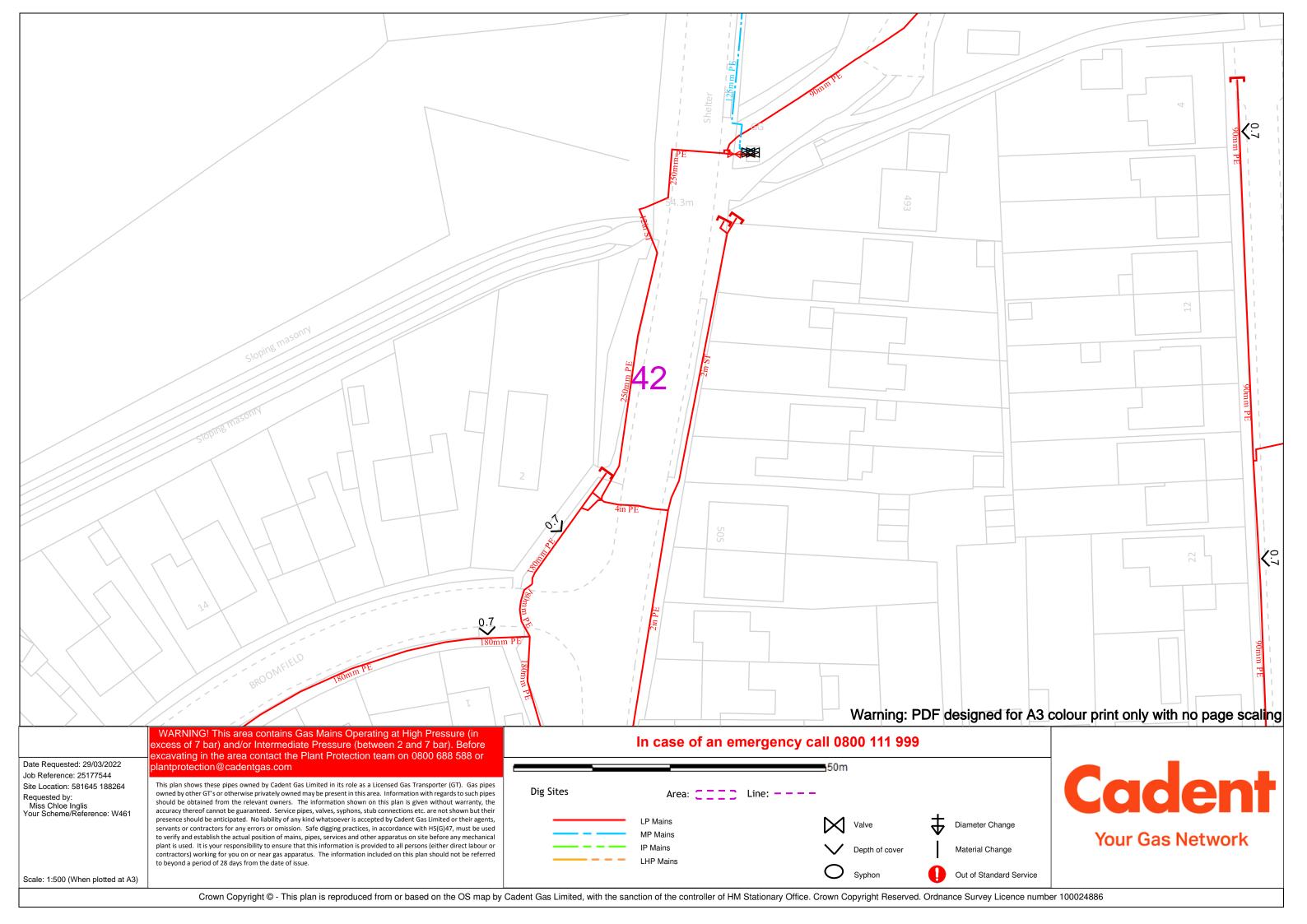
37 Warning: PDF designed for A3 colour print only with no page scaling WARNING! This area contains Gas Mains Operating at High Pressure (in xcess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before In case of an emergency call 0800 111 999 xcavating in the area contact the Plant Protection team on 0800 688 588 or Date Requested: 29/03/2022 antprotection@cadentgas.com Cadent Job Reference: 25177544 This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes Site Location: 581645 188264 Dig Sites Area: _ _ _ _ Line: - - - $owned\ by\ other\ GT's\ or\ otherwise\ privately\ owned\ may\ be\ present\ in\ this\ area.\ Information\ with\ regards\ to\ such\ pipes$ Requested by: should be obtained from the relevant owners. The information shown on this plan is given without warranty, the Miss Chloe Inglis Your Scheme/Reference: W461 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, Diameter Change servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used **Your Gas Network** $to \ verify \ and \ establish \ the \ actual \ position \ of \ mains, \ pipes, \ services \ and \ other \ apparatus \ on \ site \ before \ any \ mechanical$ $plant\ is\ used.\ It\ is\ your\ responsibility\ to\ ensure\ that\ this\ information\ is\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ provide$ Material Change 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. Out of Standard Service Scale: 1:500 (When plotted at A3) Crown Copyright @ - This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886

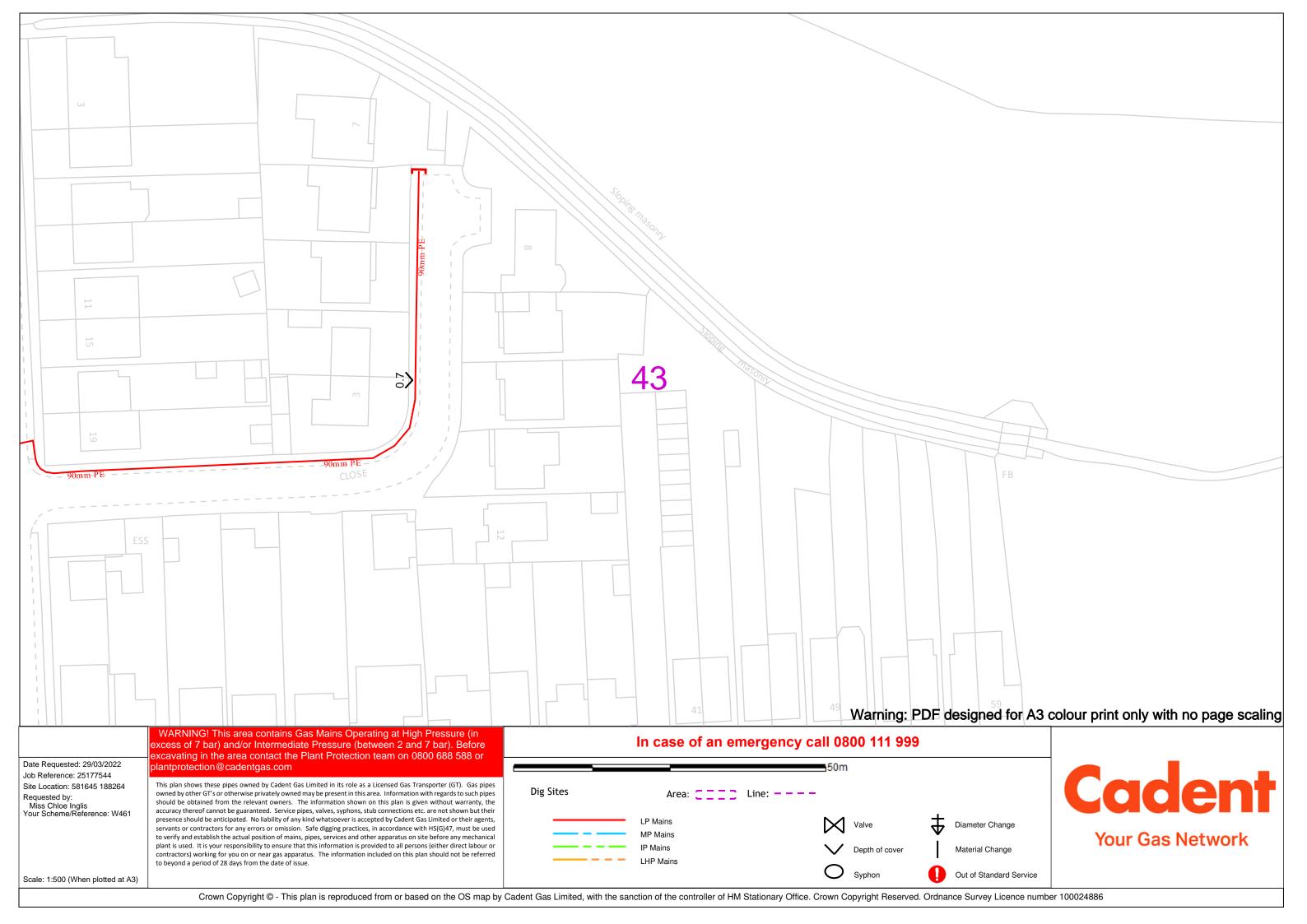


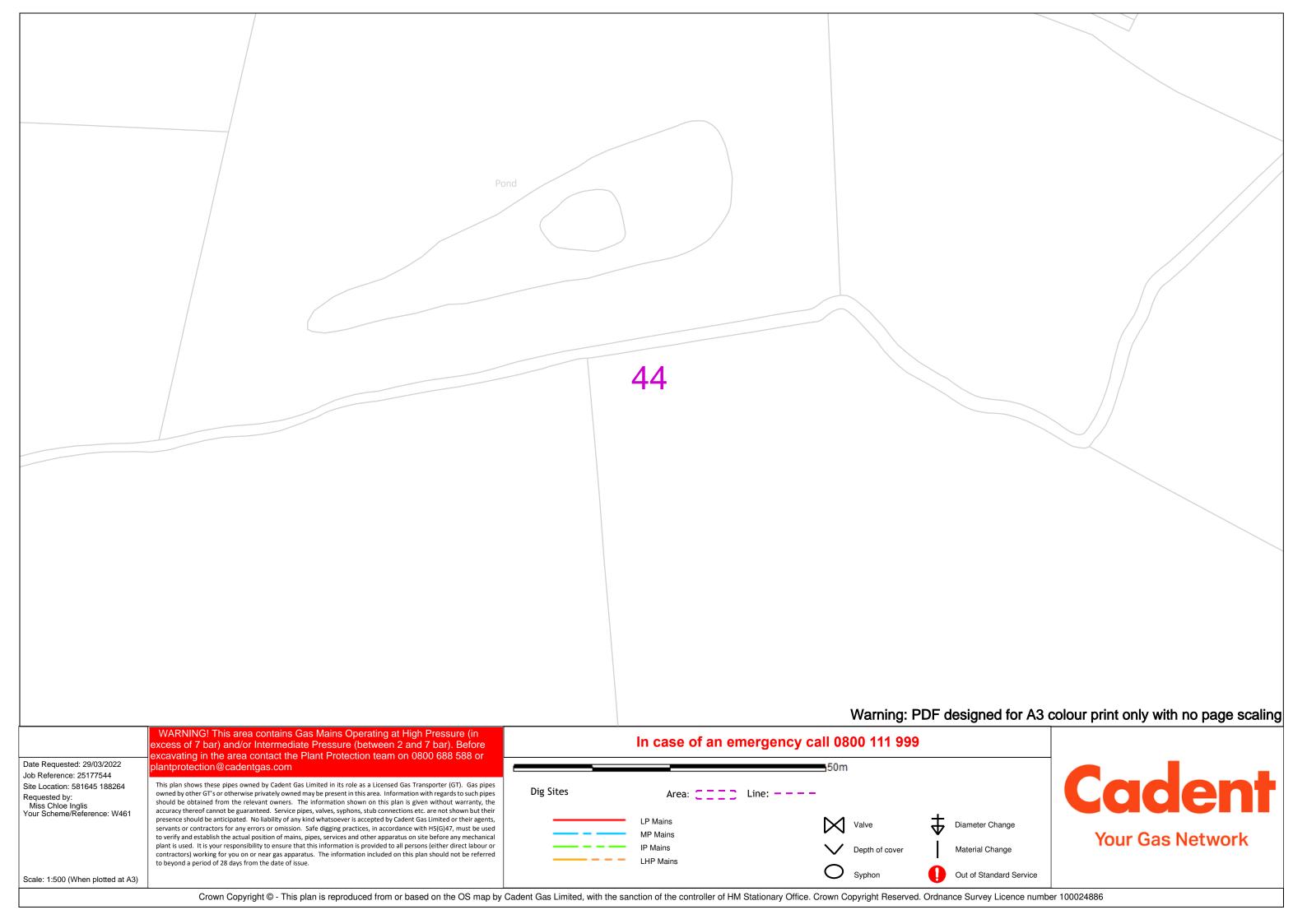


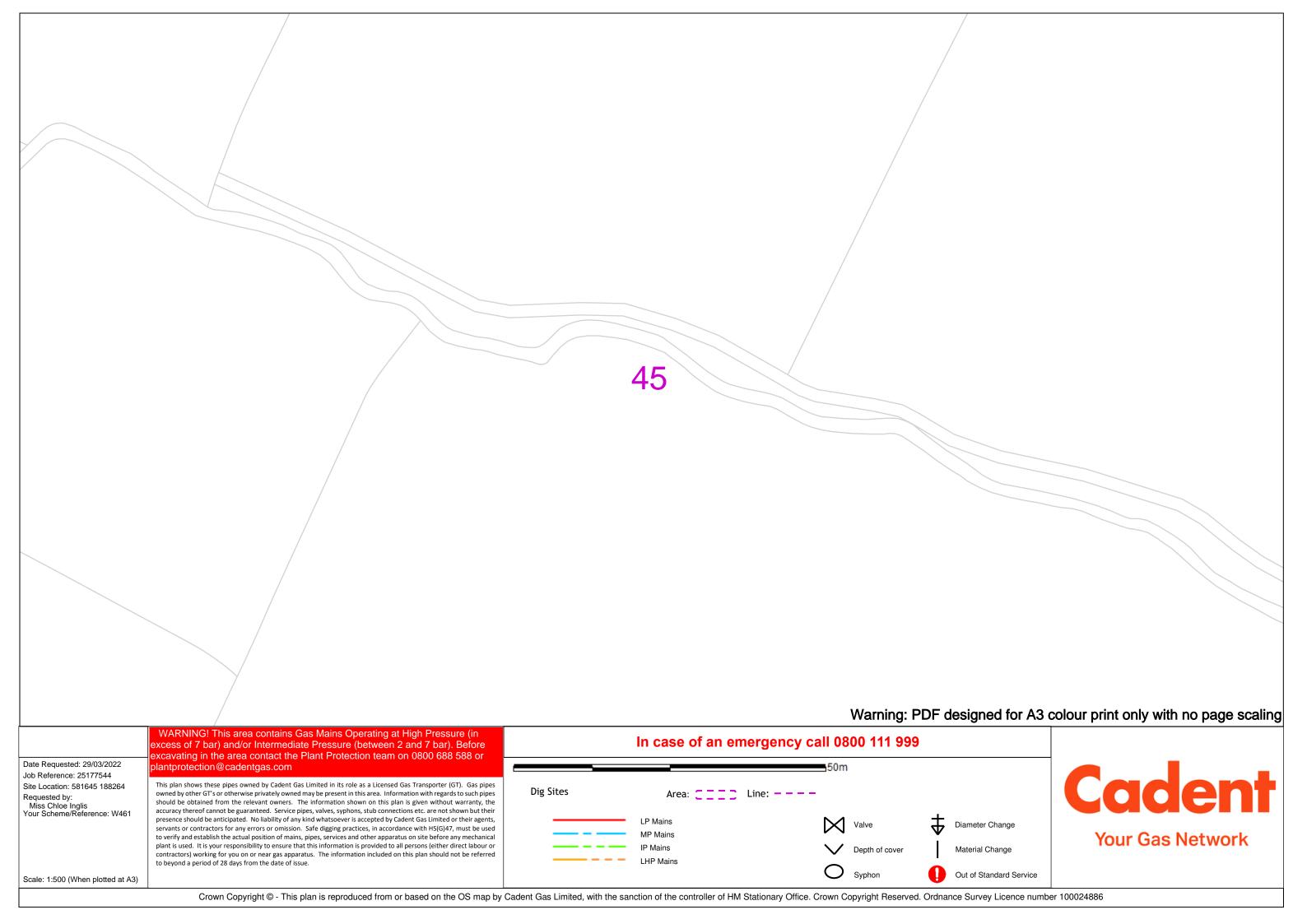


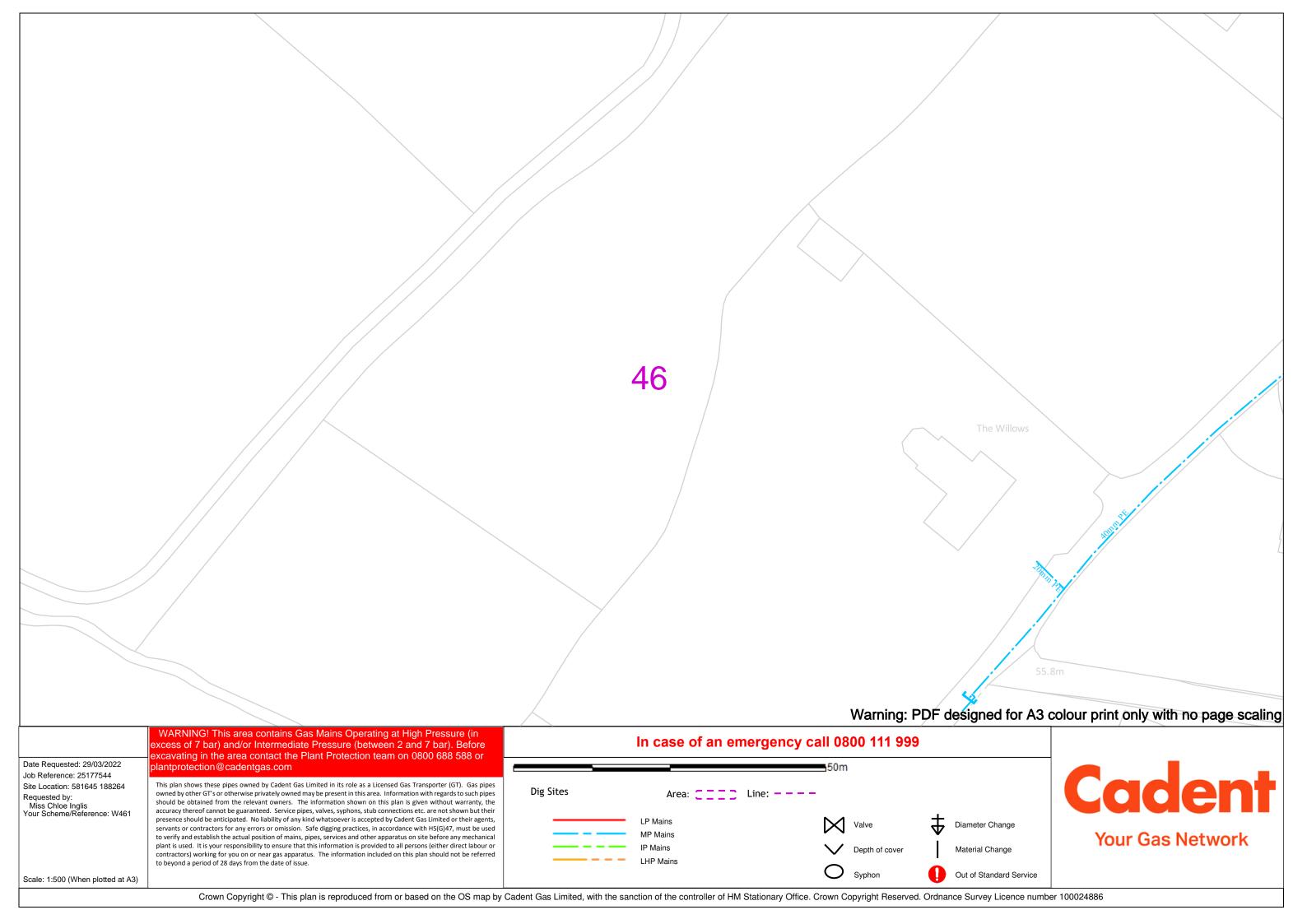


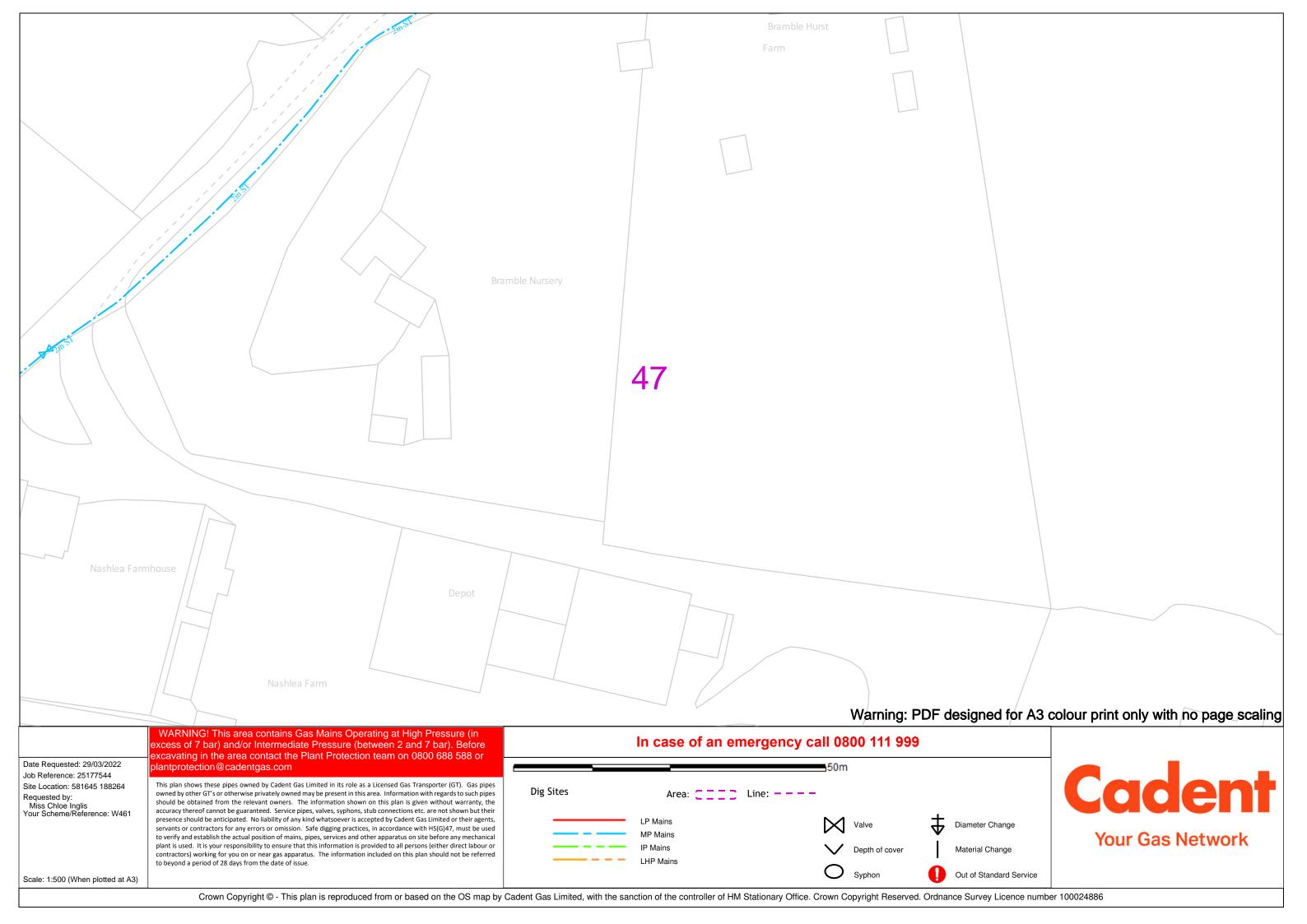


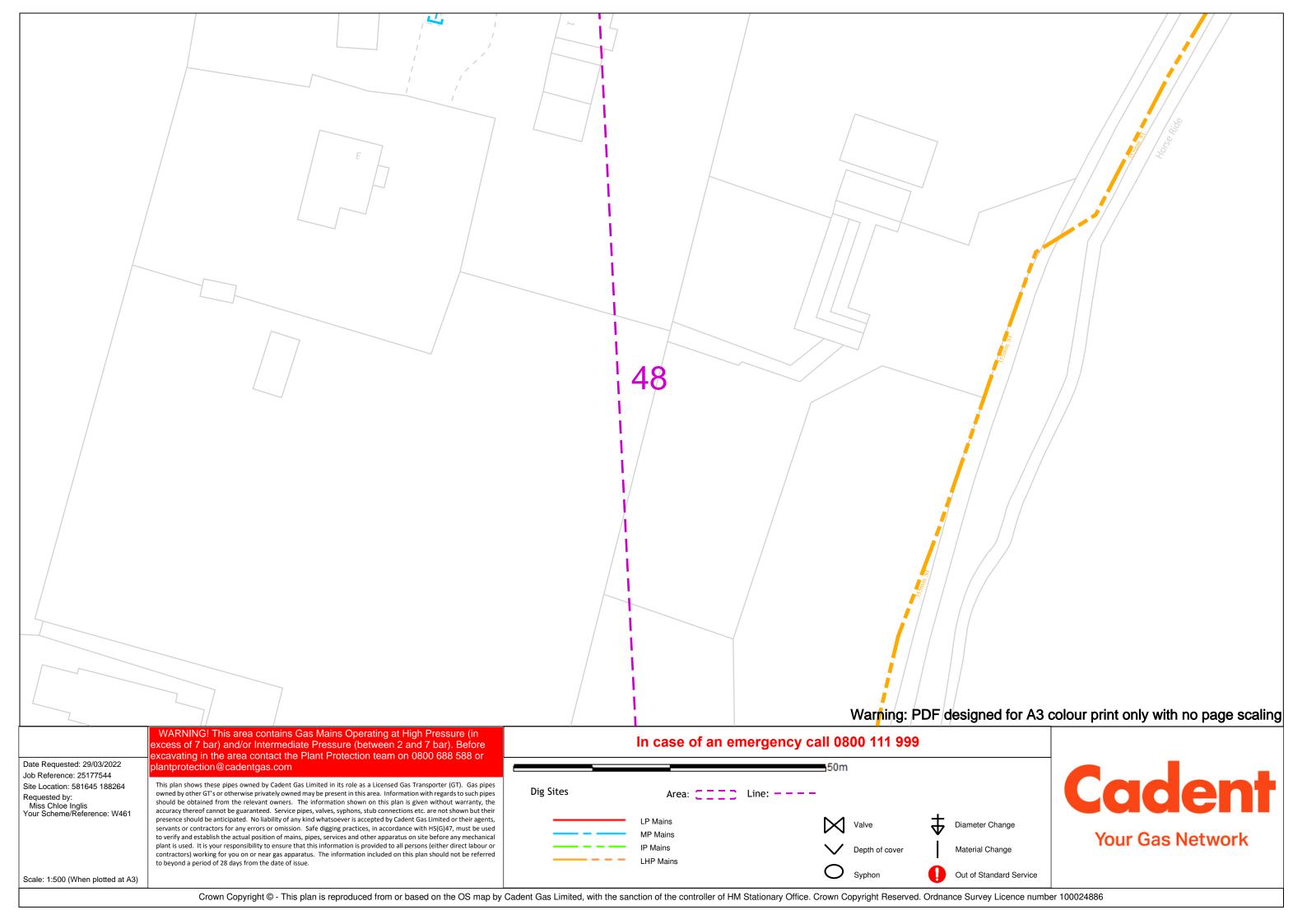


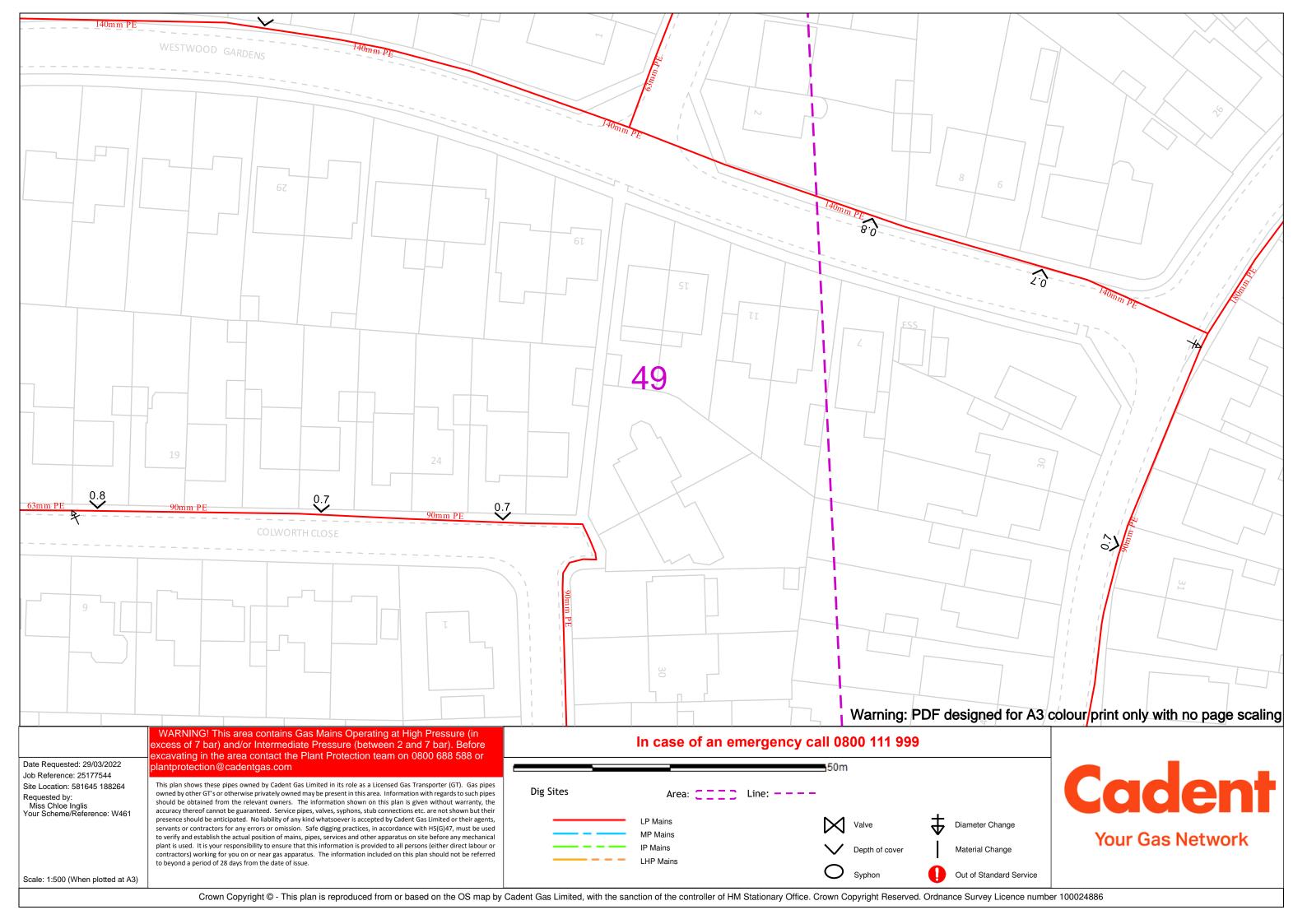


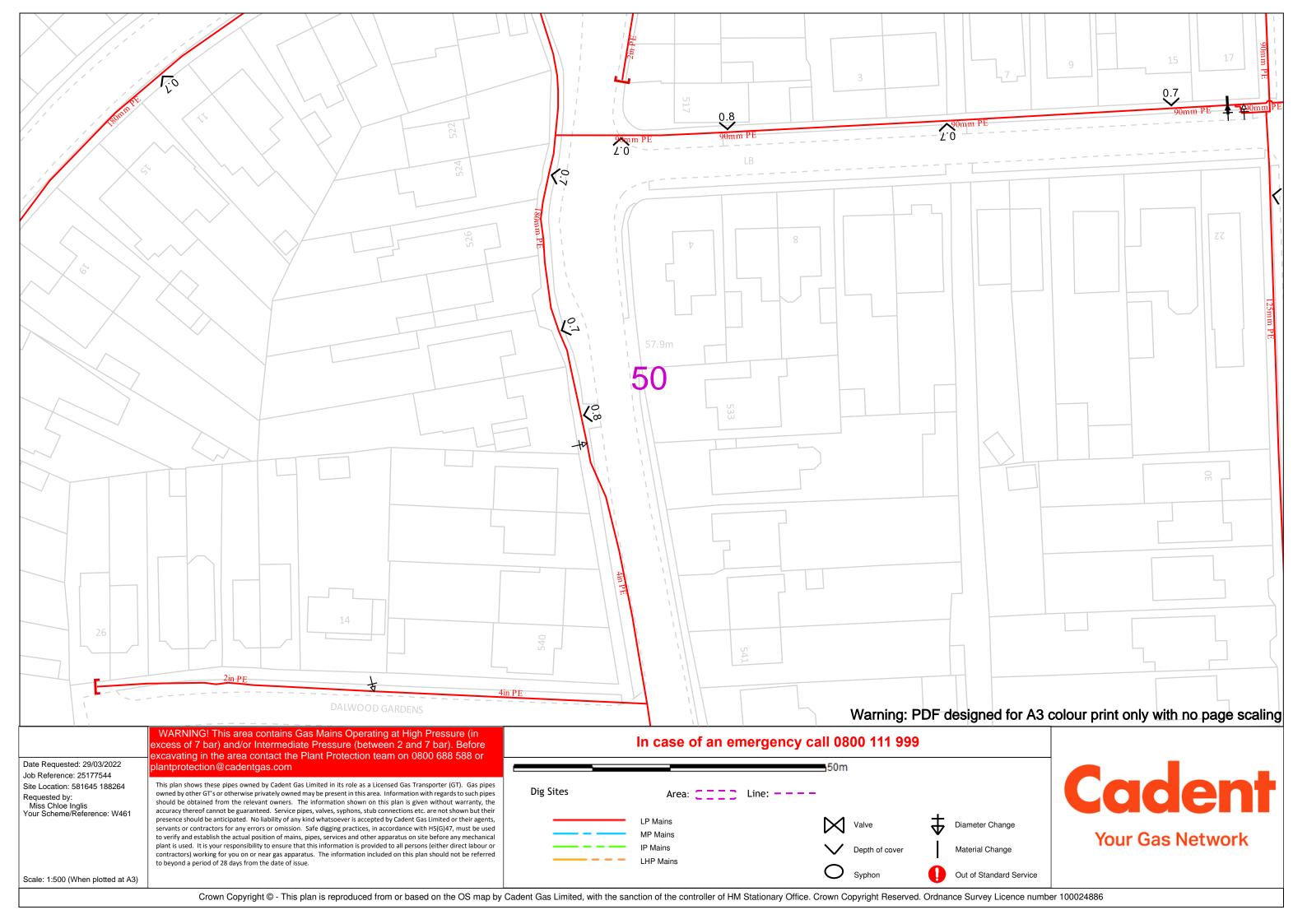


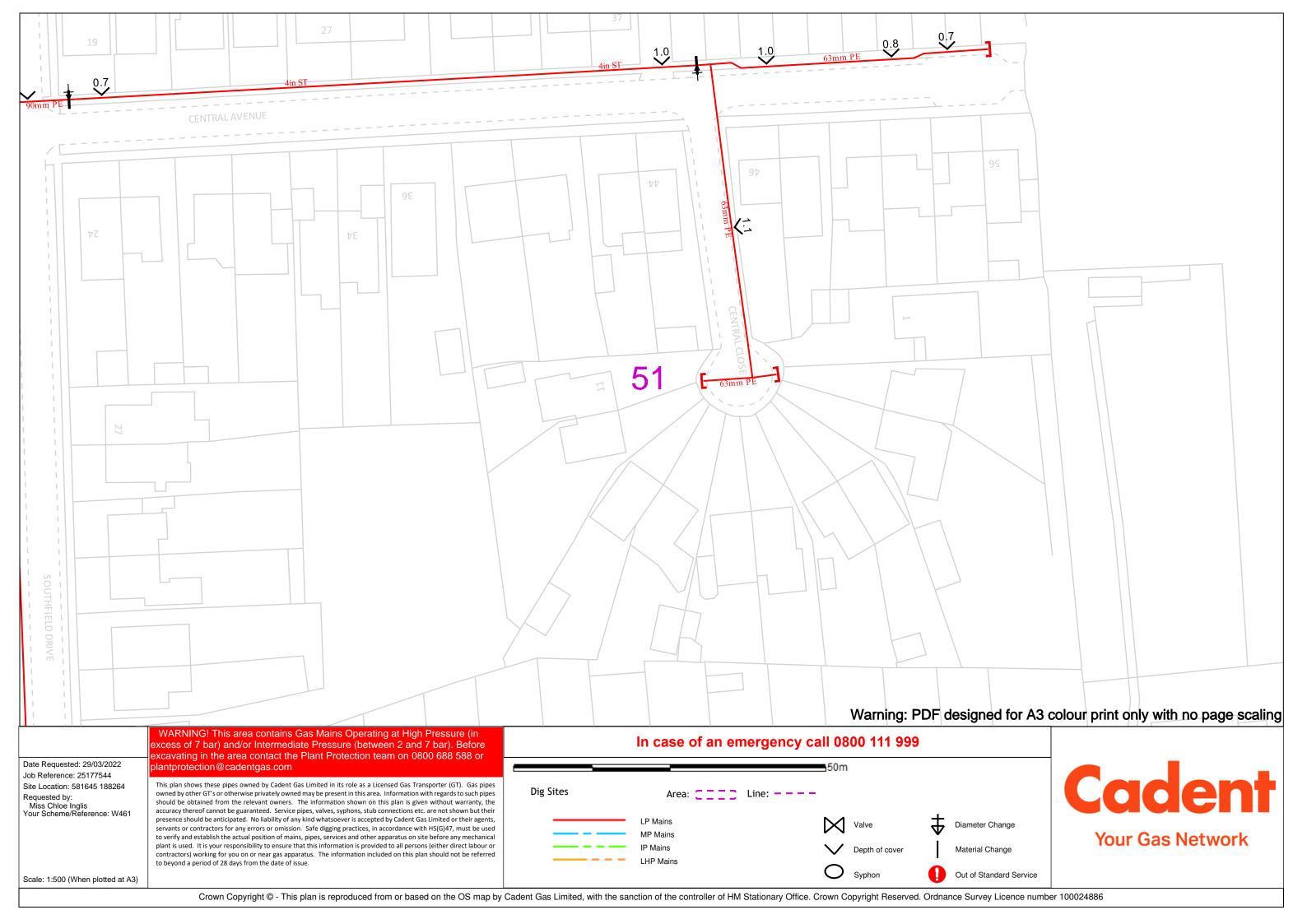


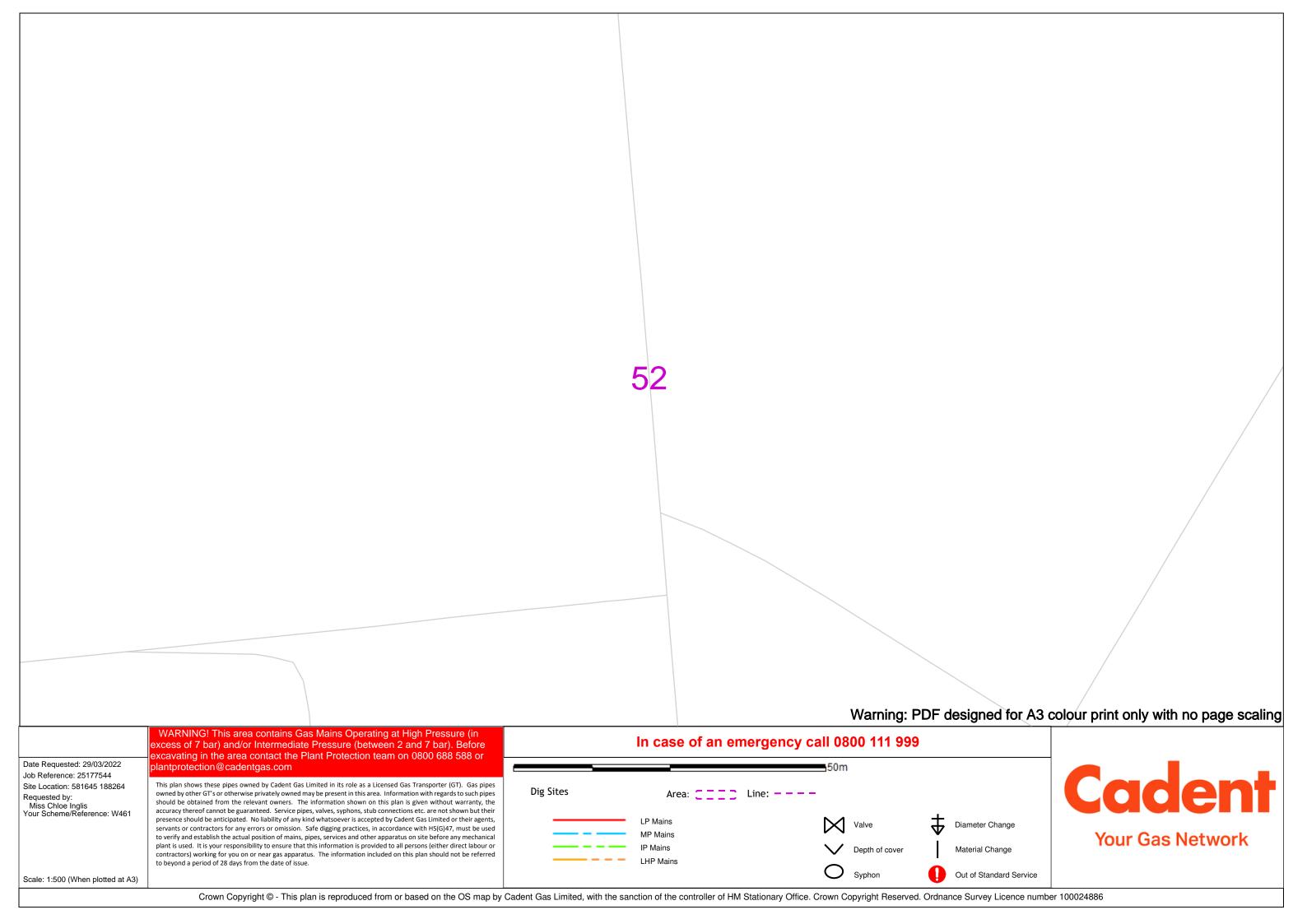




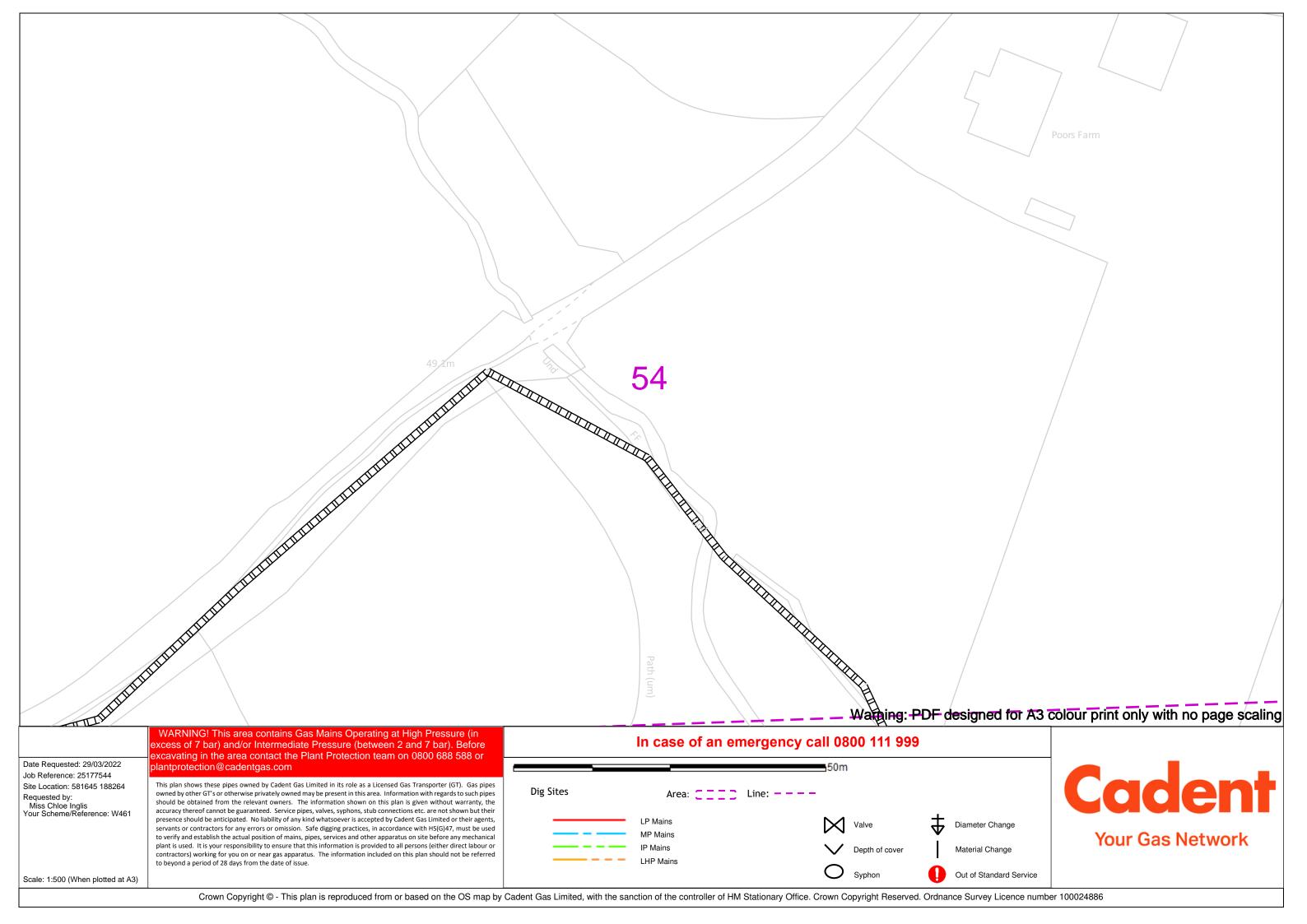


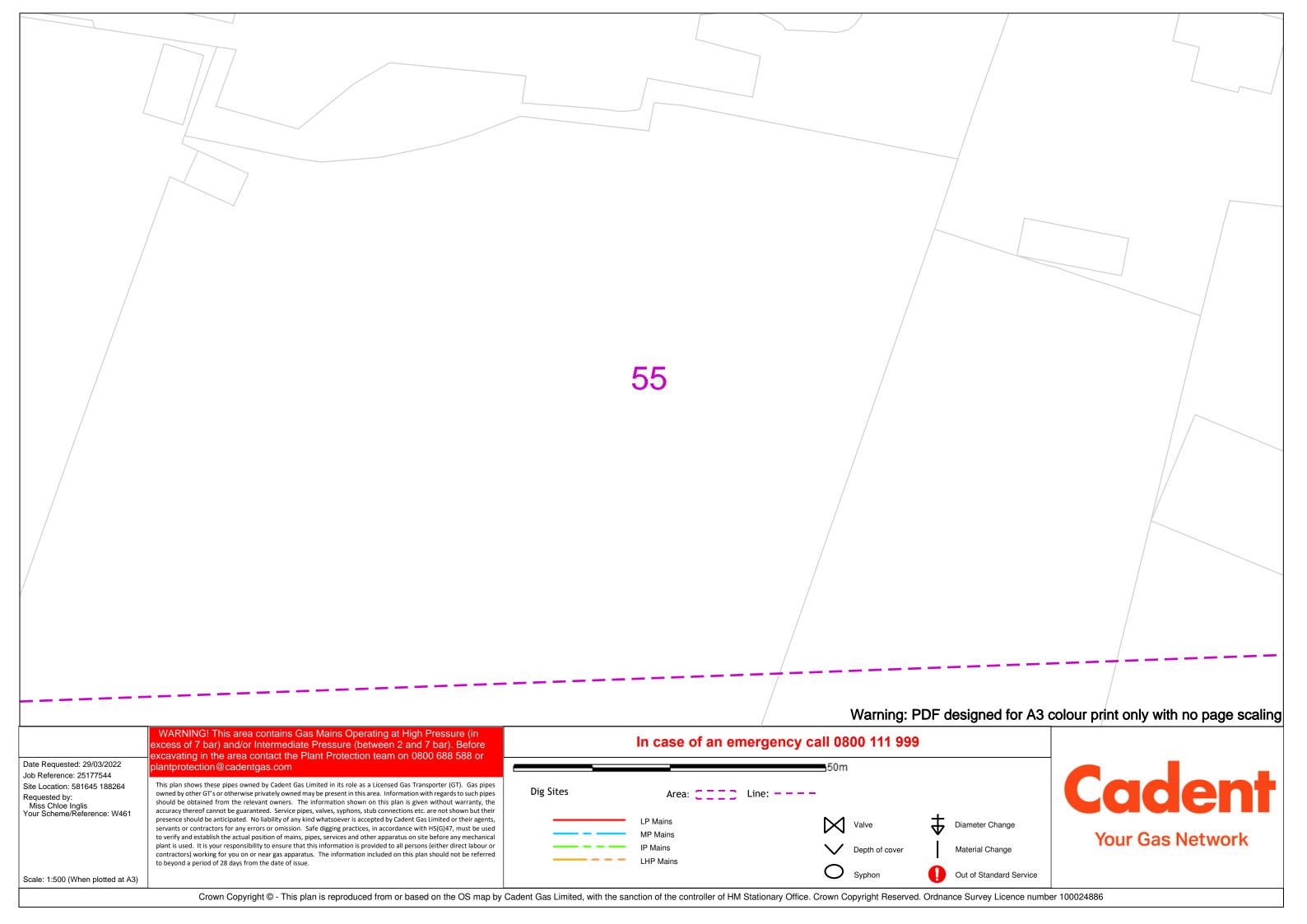


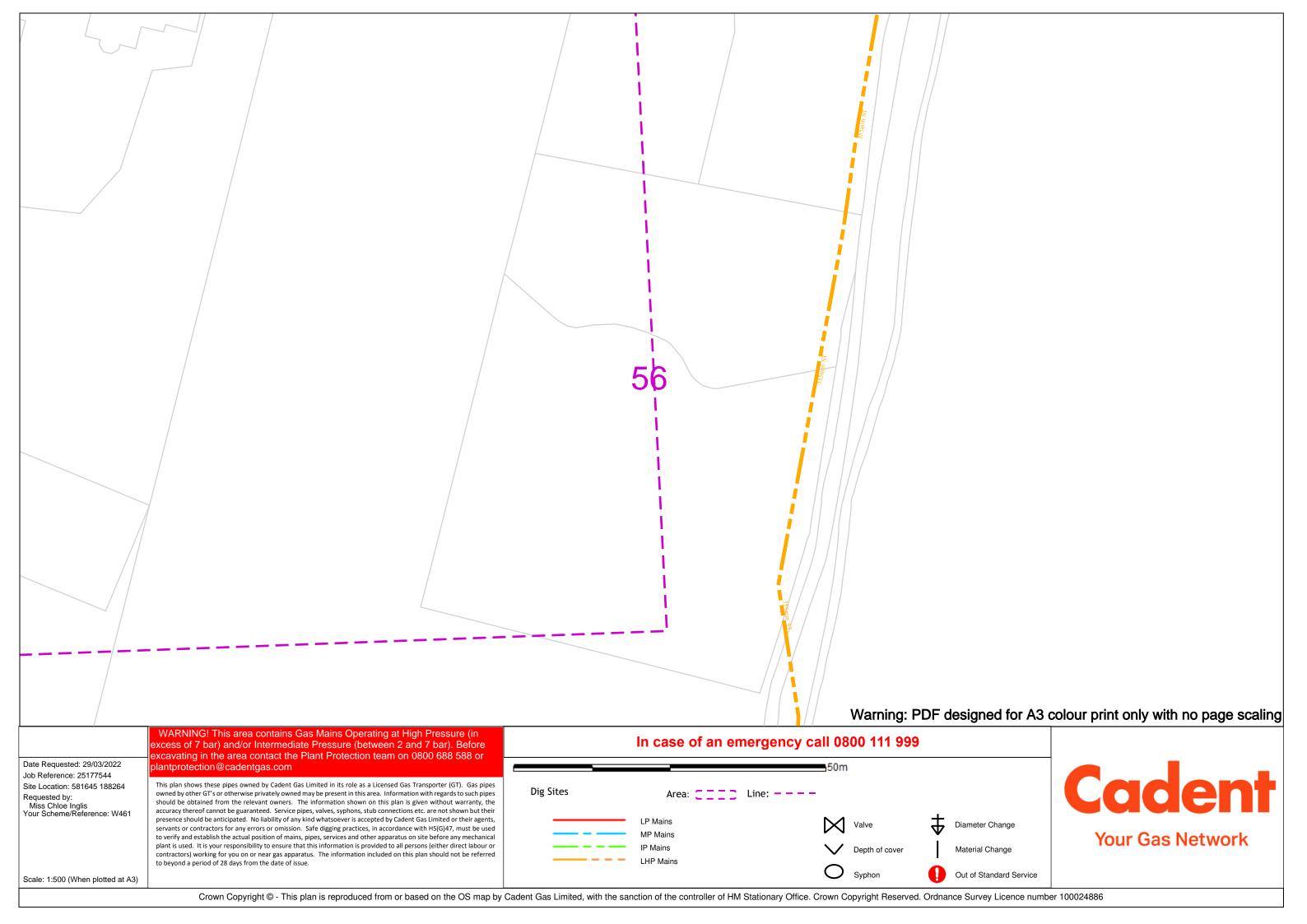


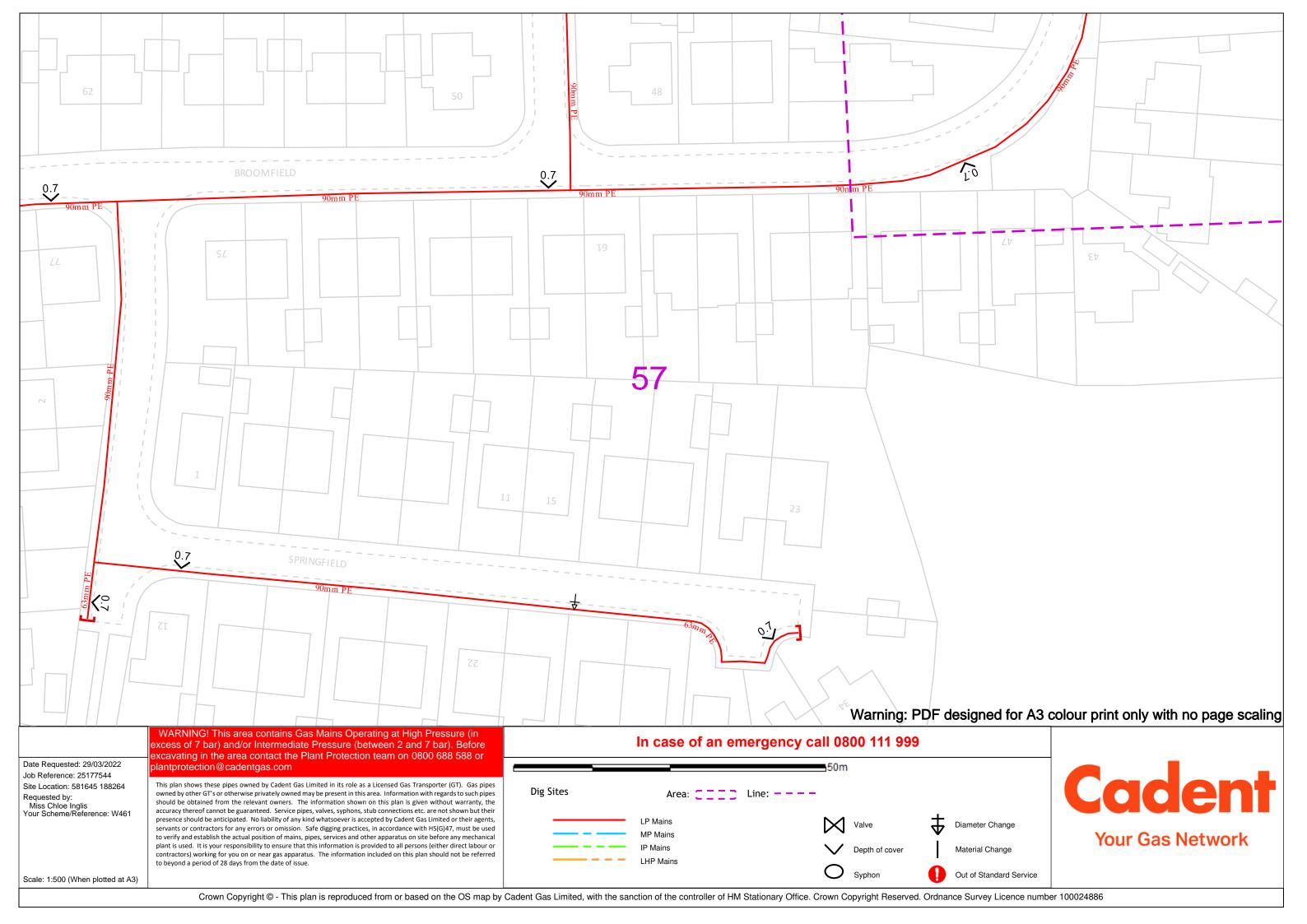


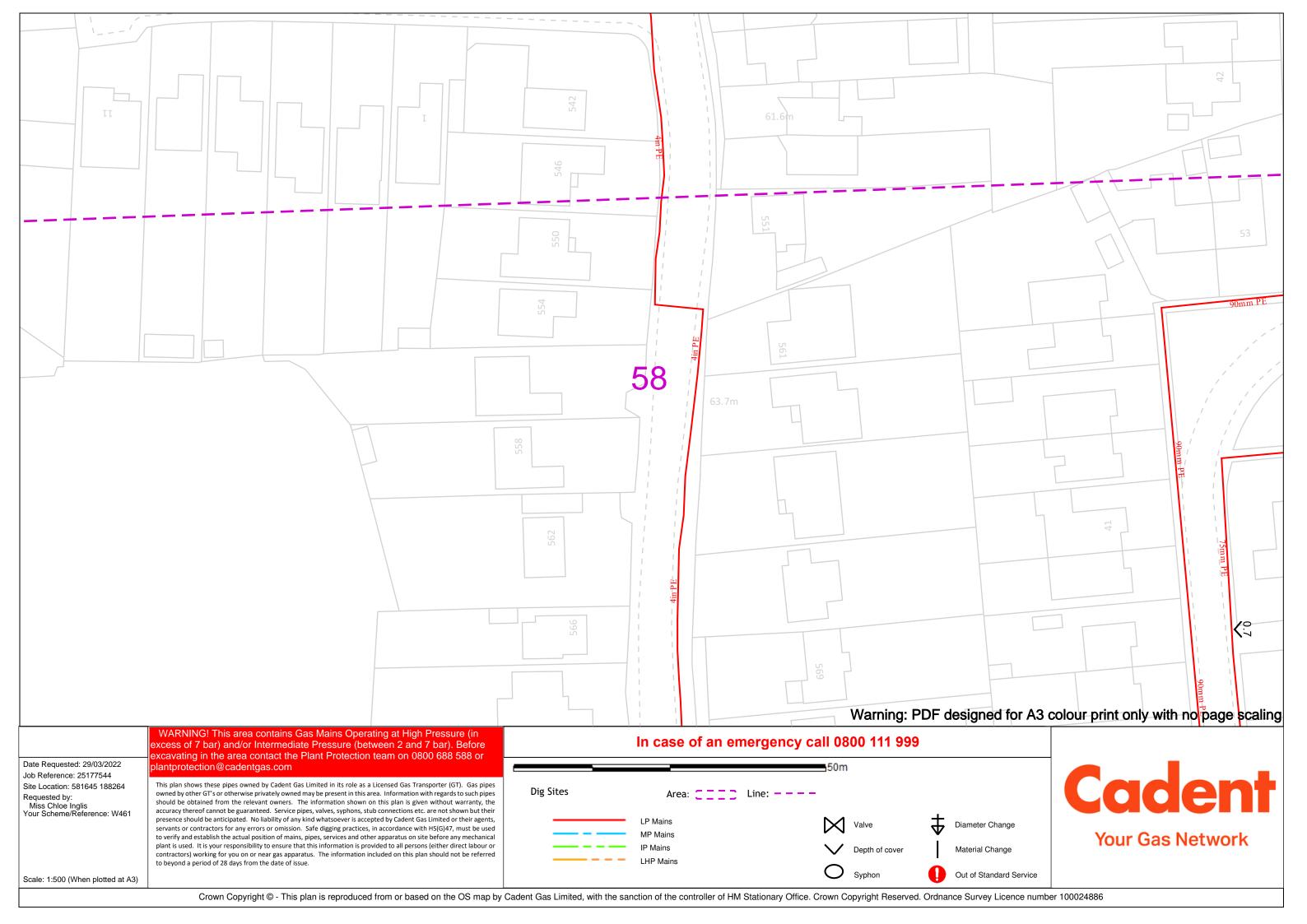
53 Warning: PDF designed for A3 colour print only with no page scaling WARNING! This area contains Gas Mains Operating at High Pressure (in xcess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before In case of an emergency call 0800 111 999 xcavating in the area contact the Plant Protection team on 0800 688 588 or Date Requested: 29/03/2022 lantprotection@cadentgas.com Cadent Job Reference: 25177544 This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes Site Location: 581645 188264 Area: _ _ _ _ Line: - - - -Dig Sites $owned\ by\ other\ GT's\ or\ otherwise\ privately\ owned\ may\ be\ present\ in\ this\ area.\ Information\ with\ regards\ to\ such\ pipes$ Requested by: should be obtained from the relevant owners. The information shown on this plan is given without warranty, the Miss Chloe Inglis Your Scheme/Reference: W461 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, LP Mains Diameter Change servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used Your Gas Network $to \ verify \ and \ establish \ the \ actual \ position \ of \ mains, \ pipes, \ services \ and \ other \ apparatus \ on \ site \ before \ any \ mechanical$ Depth of cover $plant\ is\ used.\ It\ is\ your\ responsibility\ to\ ensure\ that\ this\ information\ is\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ provide$ Material Change 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. Out of Standard Service Scale: 1:500 (When plotted at A3) Crown Copyright @ - This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886

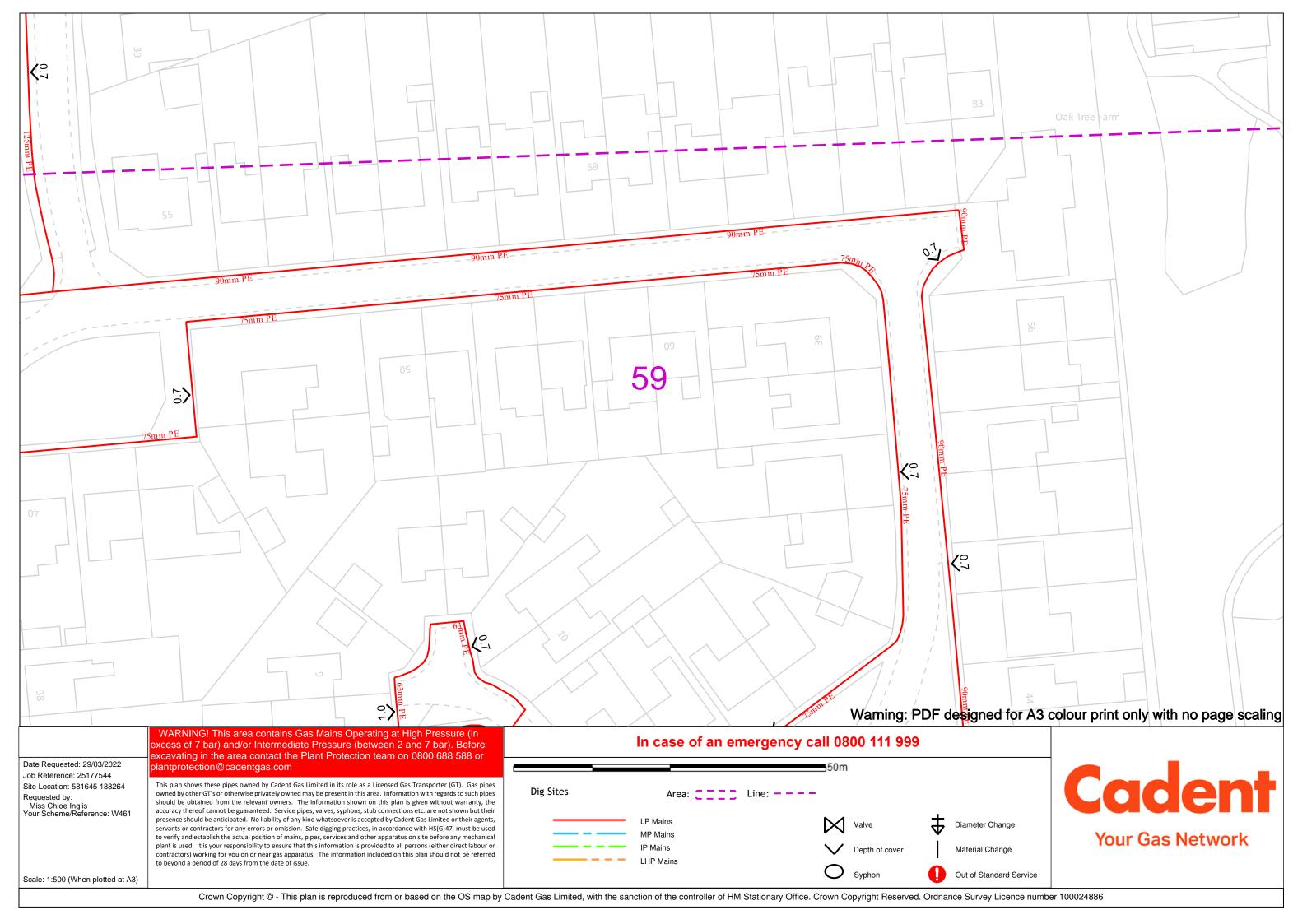


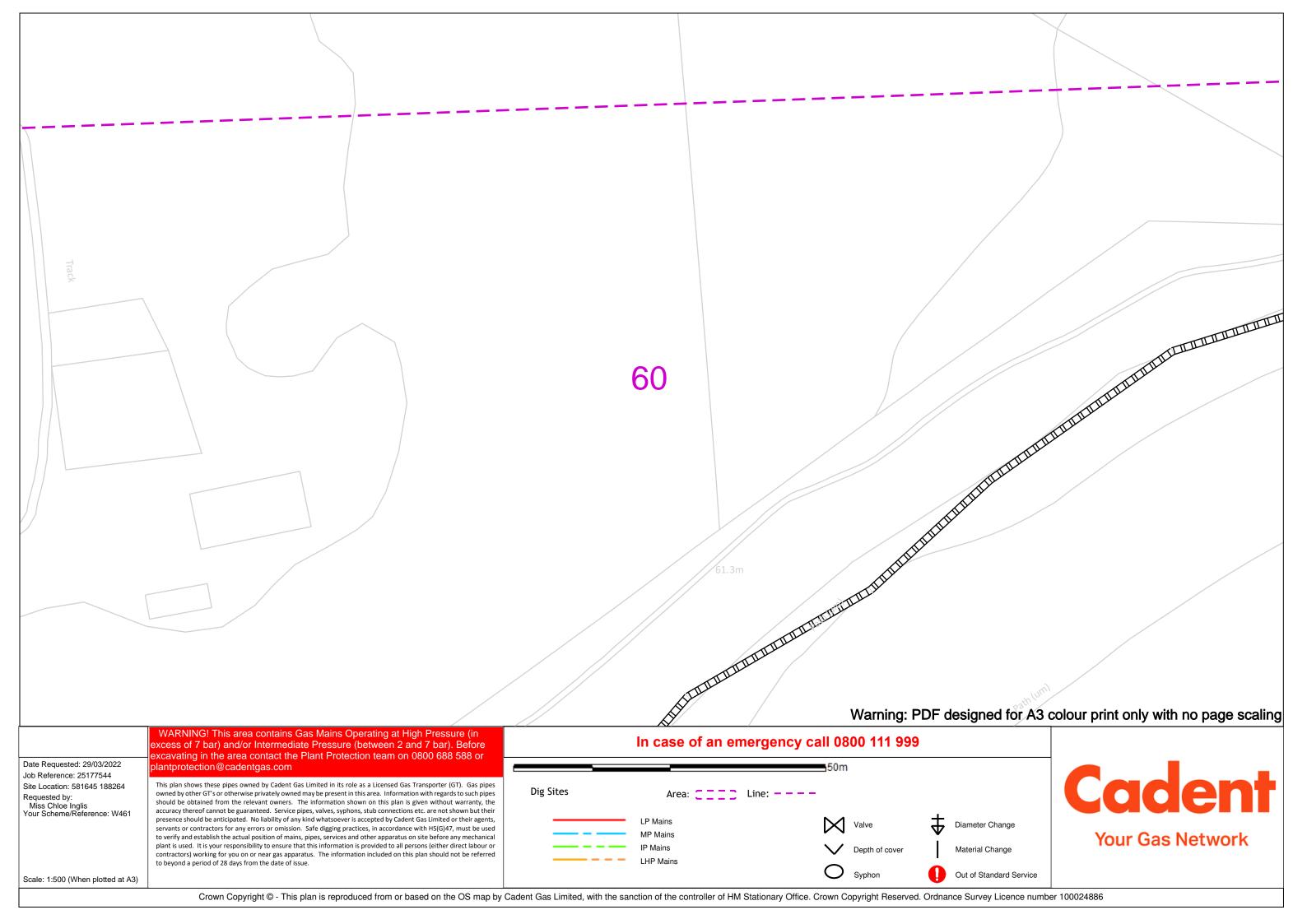


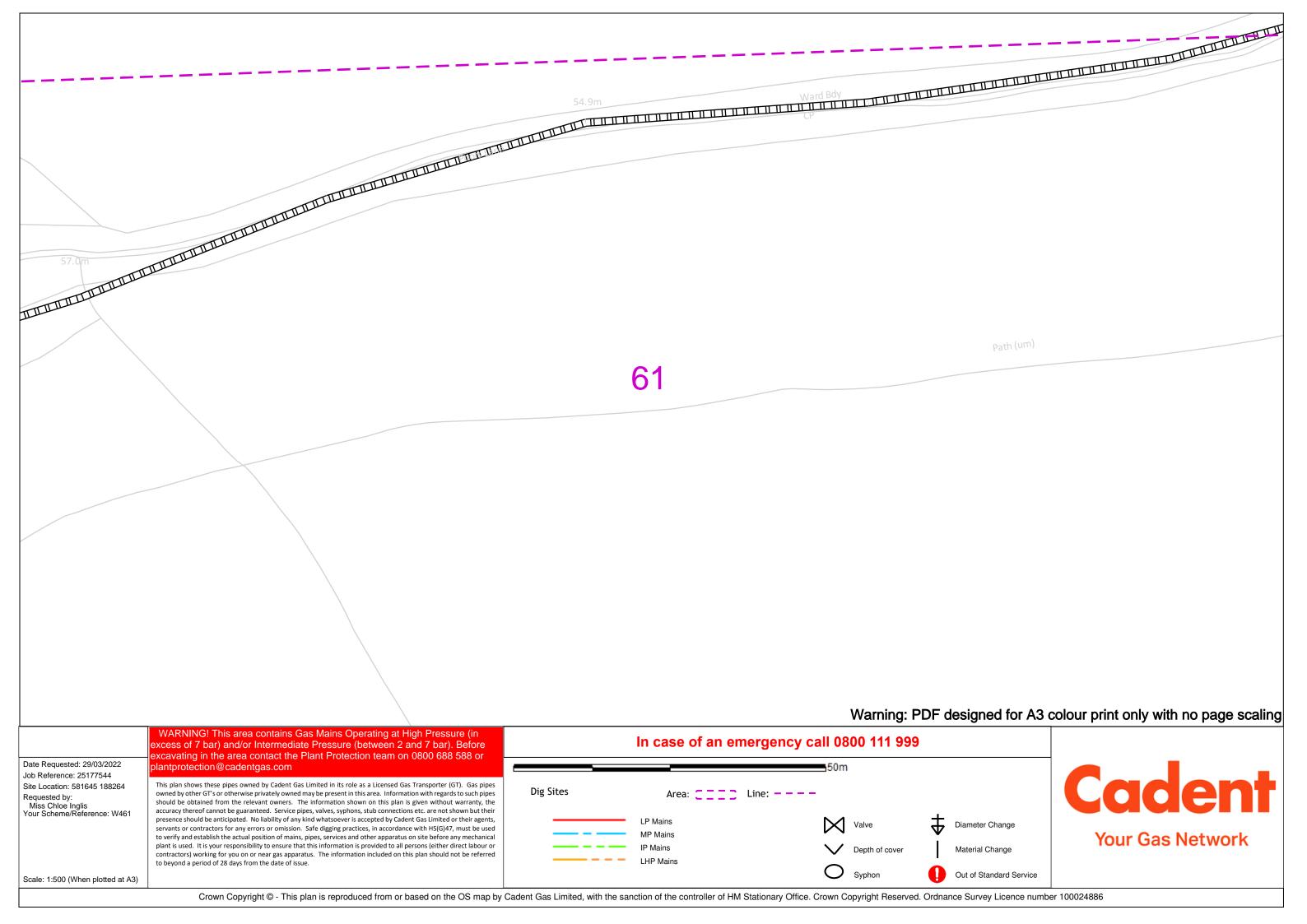


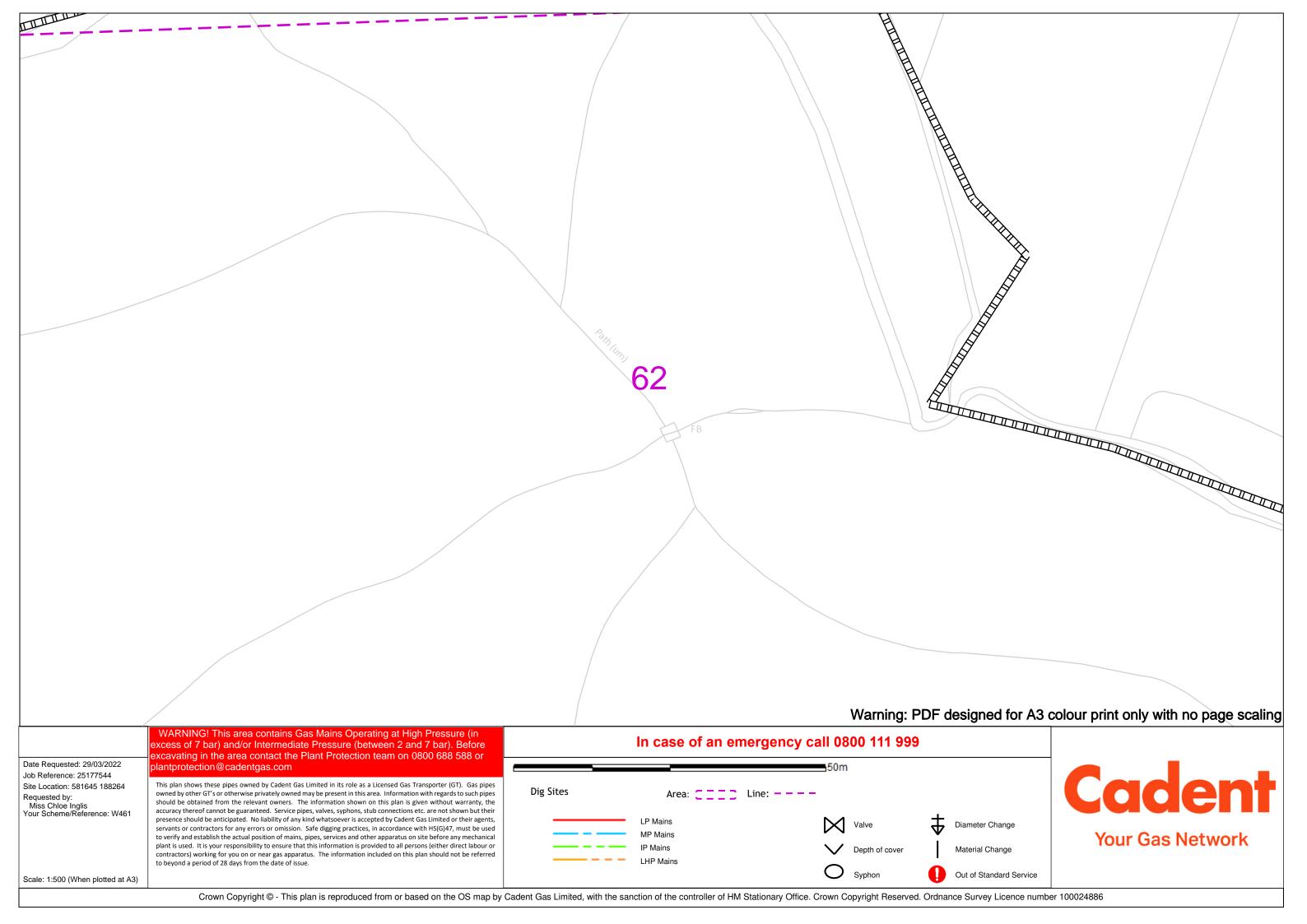


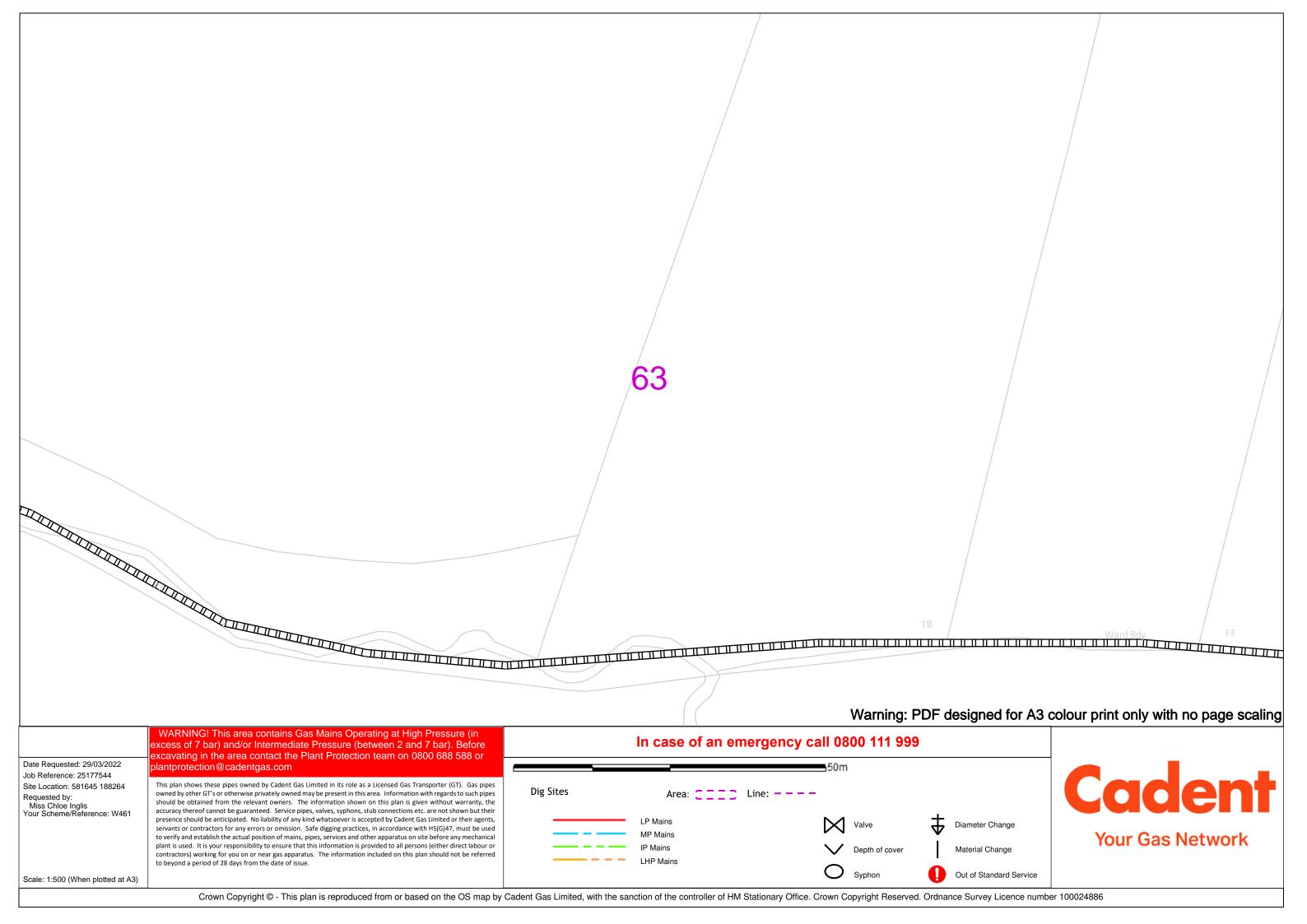


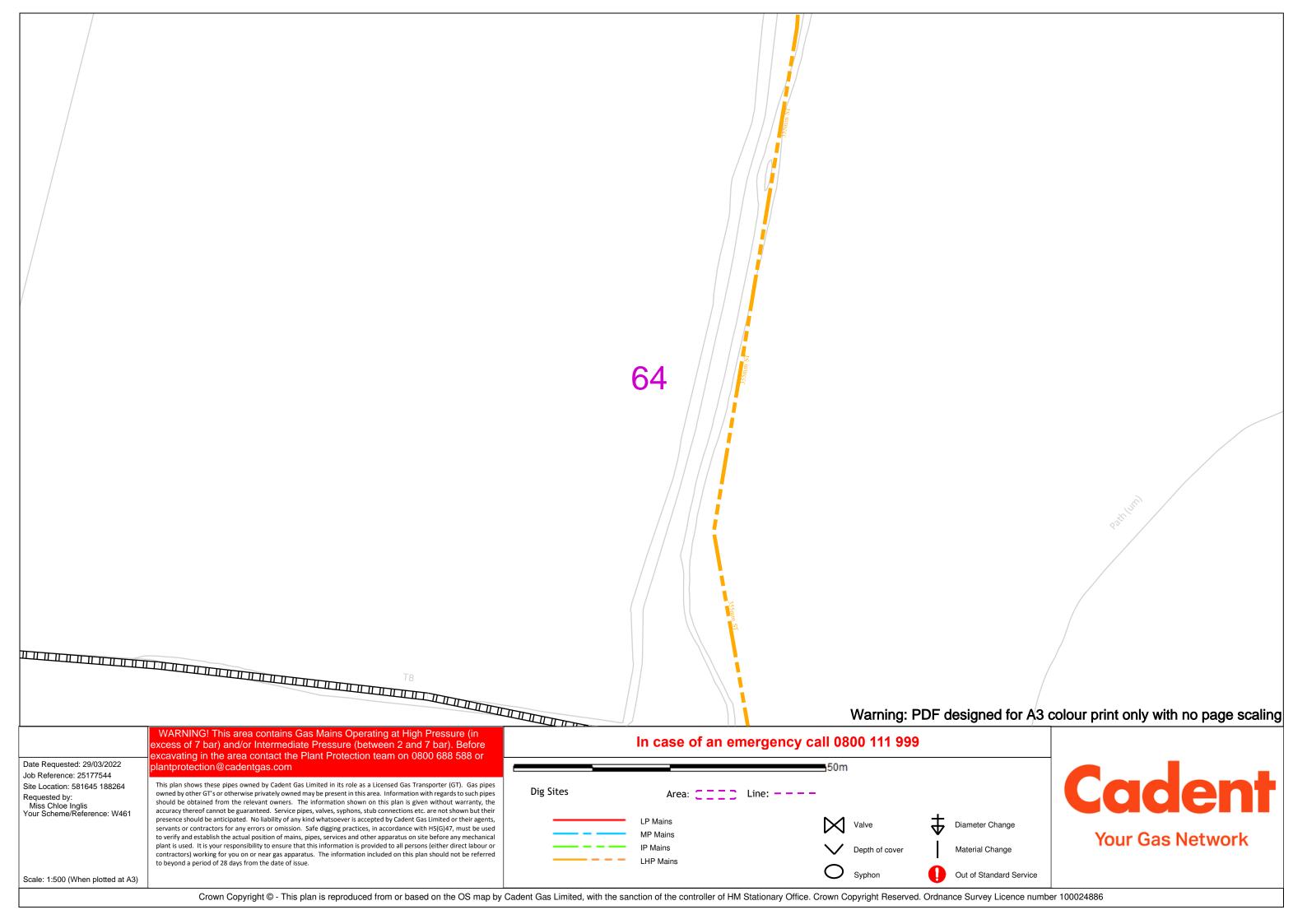












Andrew Wren

From: Weaver, David < David.Weaver@cadentgas.com>

Sent: 09 May 2022 16:12

To: Andrew Wren; .Box.RenewableGas.UKD

Subject: RE: [EXT] Land at Brook Farm, Hadleigh - Capacity Inquiry [Filed 09 May 2022 16:13]

EXTERNAL EMAIL: Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Good afternoon Andrew,

Please see below the Initial Enquiry for Brook Farm, Hadleigh.

If you have anymore questions then please don't hesitate to contact me.

Our Ref: NL-251-01

Site Address: Brook Farm, Hadleigh, SS7 2UQ

Following on from your recent enquiry regarding your site at Brook Farm, Hadleigh, SS7 2UQ, I can confirm the following:

Nearby MP has available capacity to allow for an injection rate of – 194scm/h on a continuous basis.

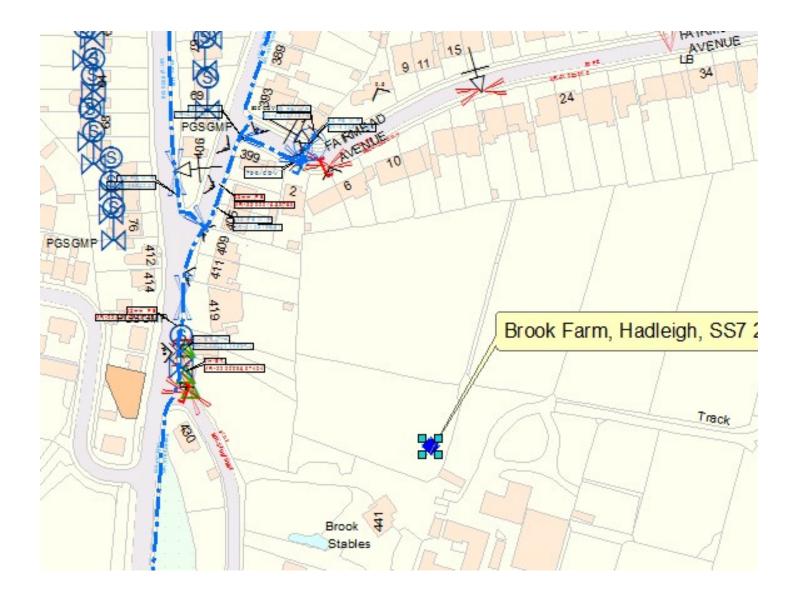
Please see the screenshot at below showing your site in relation to our MP (blue) network.

It is assumed at this stage that the biomethane will fully comply with all the requirements of GS(M)R.

For the analysis of our network and a review of the possible route your pipeline would need to take to connect to Cadent 's network, the next step of the process you would need to follow is step 2 (Detailed Analysis Study). This will enable us to analyse the requirements to enable you to connect your site to our network. Details of this stage of the process can be found on the Cadent website (link below).

Please note: The capacity quoted in this response has not been reserved for you. To reserve capacity on the network you must follow the steps detailed on Cadent's website (link below). Please be aware that our networks are dynamic and constantly evolving, as such, the capacity information provided in this enquiry may be subject to change until you have secured a Connection Offer to connect on to Cadent's network.

http://cadentgas.com/Business-with-us/Biomethane



Kind Regards,

David Weaver NL Design Analyst Network Design

Cadent Gas Ltd

Brick Kiln Street, Hinckley, Leicestershire, LE10 0NA

T: 01455 892252

David.weaver@cadentgas.com

Cadentgas.com

From: Andrew Wren <awren@ardent-ce.co.uk>

Sent: 20 April 2022 17:32

To: .Box.RenewableGas.UKD <renewablegas.ukd@cadentgas.com> **Subject:** [EXT] Land at Brook Farm, Hadleigh - Capacity Inquiry

COMMERCIAL IN CONFIDENCE

Dear Sir/Madam,

Land at Brook Farm, Hadleigh

Ardent Consulting Engineers have been commissioned by Countryside Partnerships PLC to provide engineering advice relating to a development site at the land at Brook Farm, Hadleigh, SS7 2UQ ('Site Location Plan' attached). The site measures approximately 18.92 hectares and is located at approximate grid co-ordinates 581316, 188342. I have also attached the completed Cadent connection form and provided the site layout.

As part of this process, we would be grateful if you can provide us with the following:

- Confirmation that there is sufficient spare capacity within the local network to serve the
 development proposals, include points of connection and identify any potential off-site
 reinforcement works (including a budget cost estimate); and
- Confirmation of the existing site connections if available.

We trust the above and attached information is sufficient for your purposes at this stage and look forward to hearing from you in due course. Should you require any further clarification, please do not hesitate to contact me on the details below.

Kind regards

Andrew Wren

Principal Engineer



An Employee Owned Company Infrastructure | Transport Planning | Flood Risk | Acoustics | Air Quality

T | 020 7680 4088 M | 07944 709364 E | <u>awren@ardent-ce.co.uk</u> Third Floor | The Hallmark Building | 52-56 Leadenhall Street | London EC3M 5JE

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Appendix D

South East Water Correspondence