

Appendix I Contamination Assessment Screening

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Completed	20.08.2024	TT	DH
Chronic human health risk - Soils	Completed	20.08.2024	TT	DH
Chronic human health risk - Groundwater vapour	Not undertaken			
Controlled waters risk - Surface water	Not undertaken			
Controlled waters risk - Drinking water	Not undertaken			
Controlled waters - Free phase indicator	Not undertaken			
Phytotoxicity	Not undertaken			
Ecotoxicity	Not undertaken			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Acute human health risk - Soils	AGAC	Acute Generic Assessment Criteria (SoBRA)	April 2019
	sat.	Contaminant poses a low acute risk unless the soil saturation limit is exceeded and a free oil phase is present.	April 2019
Chronic human health risk - Soils	C4SL	Category 4 Screening Levels (DEFRA)	May 2021
	S4UL	Suitable 4 Use Levels (LQM)	August 2015
	ATK	Atrisk Soil Screening Values (Atkins)	June 2017
	CL:AIRE	Generic Assessment Criteria (CL:AIRE)	Jan 2010
Phytotoxicity	BSI	BS 3882 - Specification for Topsoil (u = upper limit, l = lower limit for multipurpose topsoil) (British Standards Institute)	April 2015
	SSIA	Potentially Toxic Element. Sewage Sludge in Agriculture: Code of Practice (Environment Agency)	May 2018

Chronic human health risk (soils)

Scenario														
End user		Current and proposed site user												
Receptor		Residential with homegrown produce												
SOM		1.00%												
GAC Preference		C4SLs over S4ULs												
Unspciated TPH GAC		Worst-case aliphatic/aromatic												
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH04	TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10	TP10
				Depth (m)	0.10	0.70 - 1.30	0.10	0.10 - 0.45	0.10	0.10	0.10	0.40	0.10	0.80
				Date	J24-07-25T15: J24-07-15T15: J24-07-15T15: J24-07-15T16: J24-07-16T10: J24-07-16T11: J24-07-16T12: J24-07-16T12: J24-07-18T08: J24-07-18T09:									
Inorganics - Metals														
Arsenic	C4SL	37	54		15	10	18	10	12	4.2	7	5.8	9.3	5.4
Beryllium	S4UL	1.7	3.3		< 0.5	< 0.5	3.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Boron	S4UL	290	1.4		< 0.40	0.64	0.4	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cadmium	C4SL	22	50		< 0.10	< 0.10	0.21	0.15	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium (III)	S4UL	910	76		20	14	56	7.9	9.2	14	23	16	28	15
Chromium (VI)	C4SL	21	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	S4UL	2400	300		81	19	130	25	25	9.9	17	16	19	16
Cyanide - Free	ATK	34	10		10	0.5	0.5	0.8	1.2	1	0.6	< 0.50	0.6	< 0.50
Lead	C4SL	200	520		150	36	120	38	62	19	35	14	46	16
Mercury	S4UL	40	0.53		0.15	0.11	0.12	0.12	0.11	0.05	0.08	< 0.05	0.1	< 0.05
Nickel	S4UL	130	340		12	12	55	6.4	7.1	9.4	13	16	11	19
Selenium	S4UL	250	2.4		0.68	0.26	0.5	0.37	0.45	< 0.25	0.63	< 0.25	0.37	0.62
Vanadium	S4UL	410	72		21	19	72	18	17	12	18	15	19	17
Zinc	S4UL	3700	160		41	46	140	27	25	27	42	36	49	39
Inorganics - Asbestos														
Asbestos Type				-										
Asbestos Screen				No Asbestos Detected										
Asbestos Quantification (%)														
Inorganics - Soil Parameters														
Organic matter		N/A												
Organics - PAH & Phenol														
Acenaphthene	S4UL	210	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	S4UL	2400	0.17		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	S4UL	7.2	0.64		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	C4SL	5	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	S4UL	2.6	3.5		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	S4UL	320	1.9		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	S4UL	77	0.98		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	S4UL	15	0.58		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	S4UL	0.24	0.48		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	S4UL	280	1.1		0.47	< 0.10	0.46	< 0.10	< 0.10	0.49	< 0.10	< 0.10	0.26	0.15
Fluorene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno[1,2,3-cd]pyrene	S4UL	27	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	C4SL	15	1.4		0.8	< 0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	S4UL	95	0.7		0.32	< 0.10	0.48	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenol	S4UL	120	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	S4UL	620	0.97		0.46	< 0.10	0.57	< 0.10	< 0.10	0.52	< 0.10	< 0.10	0.26	0.18
Organics - Banded TPH (unspciated)														
EC >5-EC6 (unspciated)	S4UL	42	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspciated)	S4UL	70	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspciated)	S4UL	100	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >08-EC10 (unspciated)	S4UL	27	12		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >10-EC12 (unspciated)	S4UL	74	17		< 1.0	< 1.0	< 1.0	< 1.0	4.3	< 1.0	< 1.0	3.8	3.3	3.8
EC >12-EC16 (unspciated)	S4UL	140	86		< 1.0	< 1.0	< 1.0	< 1.0	10	< 1.0	< 1.0	9.6	9.6	11
EC >16-EC21 (unspciated)	S4UL	260	500		< 1.0	< 1.0	< 1.0	< 1.0	8.9	7.9	< 1.0	11	9.7	9.6
EC >21-EC35 (unspciated)	S4UL	1100	1100		< 1.0	< 1.0	< 1.0	< 1.0	9.7	7.2	< 1.0	7.3	7	5.3

Chronic human health risk (soils)

Scenario														
End user		Current and proposed site user												
Receptor		Residential with homegrown produce												
SOM		1.00%												
GAC Preference		C4SLs over S4ULs												
Unspeciated TPH GAC		Worst-case aliphatic/aromatic												
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP15	TP12	TP09	TP14	TP11	TP08	TP16	WS04	BH01	BH02
				Depth (m)	0.10	0.10	0.10	0.10	0.60	0.90	0.10	0.15	0.10	0.10 - 0.35
				Date	J24-07-18T10: J24-07-18T10: J24-07-18T11: J24-07-18T11: J24-07-18T12: J24-07-18T12: J24-07-18T15: J24-07-23T14: J24-07-30T00: J24-07-30T00:									
Inorganics - Metals														
Arsenic	C4SL	37	54		11	15	4.4	4.4	14	12	11	10	8.4	14
Beryllium	S4UL	1.7	3.3		0.7	< 0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Boron	S4UL	290	1.4		0.68	0.45	0.73	1.4	< 0.40	0.45	< 0.40	< 0.40	< 0.40	0.56
Cadmium	C4SL	22	50		0.52	0.12	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium (III)	S4UL	910	76		19	15	13	14	76	17	9.2	8.9	9.8	8.6
Chromium (VI)	C4SL	21	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	S4UL	2400	300		26	35	13	14	31	35	24	30	13	72
Cyanide - Free	ATK	34	10		0.8	0.8	0.7	0.6	< 0.50	< 0.50	0.6	1.1	0.5	0.7
Lead	C4SL	200	520		71	57	24	29	51	46	47	52	24	57
Mercury	S4UL	40	0.53		0.09	0.12	0.05	0.06	0.1	0.08	0.11	0.1	0.05	0.21
Nickel	S4UL	130	340		7.3	8.2	7.6	9.3	31	17	6.7	10	7.5	8
Selenium	S4UL	250	2.4		2.4	0.55	0.31	0.36	0.98	0.55	0.65	0.55	0.63	0.58
Vanadium	S4UL	410	72		15	18	11	12	30	23	14	17	16	18
Zinc	S4UL	3700	160		39	48	26	36	89	55	24	35	27	36
Inorganics - Asbestos														
Asbestos Type														
Asbestos Screen														
Asbestos Quantification (%)														
Inorganics - Soil Parameters														
Organic matter		N/A												
Organics - PAH & Phenol														
Acenaphthene	S4UL	210	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	S4UL	2400	0.17		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	S4UL	7.2	0.64		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	C4SL	5	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	S4UL	2.6	3.5		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	S4UL	320	1.9		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	S4UL	77	0.98		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	S4UL	15	0.58		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	S4UL	0.24	0.48		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	S4UL	280	1.1		0.48	0.33	0.45	< 0.10	< 0.10	0.33	0.1	0.24	0.13	< 0.10
Fluorene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno[1,2,3-cd]pyrene	S4UL	27	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	C4SL	15	1.4		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	S4UL	95	0.7		0.23	0.17	0.39	< 0.10	< 0.10	0.21	< 0.10	0.14	< 0.10	< 0.10
Phenol	S4UL	120	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	S4UL	620	0.97		0.45	0.33	0.39	< 0.10	< 0.10	0.29	0.1	0.24	0.11	< 0.10
Organics - Banded TPH (unspeciated)														
EC >5-EC6 (unspeciated)	S4UL	42	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspeciated)	S4UL	70	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspeciated)	S4UL	100	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >08-EC10 (unspeciated)	S4UL	27	12		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3
EC >10-EC12 (unspeciated)	S4UL	74	17		4.4	4.4	4.8	4.4	< 1.0	5.4	4.3	6	4.2	6.1
EC >12-EC16 (unspeciated)	S4UL	140	86		10	10	12	11	< 1.0	14	9.5	11	10	11
EC >16-EC21 (unspeciated)	S4UL	260	500		7.8	8.4	8.8	11	< 1.0	14	8.4	11	8.9	8.5
EC >21-EC35 (unspeciated)	S4UL	1100	1100		6.9	6.7	6.3	7.2	< 1.0	11	6.6	8.1	6	5.6

Chronic human health risk (soils)

Scenario														
End user		Current and proposed site user												
Receptor		Residential with homegrown produce												
SOM		1.00%												
GAC Preference		CASLs over S4ULs												
Unspeciated TPH GAC		Worst-case aliphatic/aromatic												
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH03	BH06	TP20	TP19	TP19	TP17	BH08	BH10	TP22	TP24
				Depth (m)	0.10	0.10 - 0.40	0.10	0.10	1.20	0.10	0.10 - 0.40	0.10 - 0.40	0.10	0.10
				Date	J24-07-30T00:J24-07-30T00:J24-07-25T12:J24-07-25T12:J24-07-25T12:J24-07-25T13:J24-07-25T13:J24-07-25T13:J24-07-25T14:J24-07-25T15:									
Inorganics - Metals														
Arsenic	C4SL	37	54		10	11	9.9	23	1.6	9.1	19	5.9	9	8.1
Beryllium	S4UL	1.7	3.3		< 0.5	< 0.5	< 0.5	2.4	< 0.5	0.6	0.6	0.5	< 0.5	< 0.5
Boron	S4UL	290	1.4		0.49	0.41	0.63	< 0.40	< 0.40	< 0.40	0.56	< 0.40	< 0.40	0.96
Cadmium	C4SL	22	50		< 0.10	< 0.10	0.13	0.79	0.3	0.1	0.22	< 0.10	< 0.10	< 0.10
Chromium (III)	S4UL	910	76		6.3	10	12	14	6.6	13	22	19	10	10
Chromium (VI)	C4SL	21	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Copper	S4UL	2400	300		56	23	54	190	6.6	35	41	18	21	23
Cyanide - Free	ATK	34	10		0.8	0.7	0.8	< 0.50	0.6	0.7	0.9	< 0.50	< 0.50	0.6
Lead	C4SL	200	520		44	51	58	50	8	520	100	18	38	58
Mercury	S4UL	40	0.53		0.17	0.11	0.14	0.06	0.07	0.38	0.53	< 0.05	0.06	0.1
Nickel	S4UL	130	340		5.7	7.6	7.5	44	6.2	19	17	22	11	10
Selenium	S4UL	250	2.4		0.49	0.44	0.37	1.4	0.48	0.62	0.99	0.39	0.29	0.35
Vanadium	S4UL	410	72		14	16	19	55	8.6	15	26	18	16	14
Zinc	S4UL	3700	160		25	28	53	160	24	56	84	47	47	30
Inorganics - Asbestos														
Asbestos Type														
Asbestos Screen														
Asbestos Quantification (%)														
Inorganics - Soil Parameters														
Organic matter		N/A												
Organics - PAH & Phenol														
Acenaphthene	S4UL	210	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	S4UL	2400	0.17		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	S4UL	7.2	0.64		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.21	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	C4SL	5	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	S4UL	2.6	3.5		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	S4UL	320	1.9		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	S4UL	77	0.98		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	S4UL	15	0.58		0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.19	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	S4UL	0.24	0.48		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	S4UL	280	1.1		0.18	0.13	0.24	< 0.10	< 0.10	0.22	0.43	< 0.10	< 0.10	0.22
Fluorene	S4UL	170	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno[1,2,3-cd]pyrene	S4UL	27	2.2		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	C4SL	15	1.4		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10
Phenanthrene	S4UL	95	0.7		0.12	< 0.10	0.14	< 0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10	< 0.10
Phenol	S4UL	120	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	S4UL	620	0.97		0.16	0.13	0.22	< 0.10	< 0.10	0.2	0.4	< 0.10	< 0.10	0.2
Organics - Banded TPH (unspeciated)														
EC >5-EC6 (unspeciated)	S4UL	42	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >6-EC7 (unspeciated)	S4UL	70	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >7-EC8 (unspeciated)	S4UL	100	<LoD		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >08-EC10 (unspeciated)	S4UL	27	12		< 1.0	< 1.0	< 1.0	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
EC >10-EC12 (unspeciated)	S4UL	74	17		4.3	4.2	6.2	13	< 1.0	6.2	< 1.0	< 1.0	< 1.0	< 1.0
EC >12-EC16 (unspeciated)	S4UL	140	86		11	9.6	11	22	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0
EC >16-EC21 (unspeciated)	S4UL	260	500		9.8	11	12	14	< 1.0	16	< 1.0	< 1.0	< 1.0	< 1.0
EC >21-EC35 (unspeciated)	S4UL	1100	1100		8.3	7	9.3	6.1	< 1.0	10	< 1.0	< 1.0	< 1.0	< 1.0

Scenario	
End user	Current and proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs
Unspecified TPH GAC	Worst-case aliphatic/aromatic

Scenario	
End user	Current and proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs
Unspecified TPH GAC	Worst-case aliphatic/aromatic

Created: 10/12/2024

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH04	TP03	TP03	BH05	TP04	TP06	TP07	TP07	TP10	TP10	TP15
					Depth (m)	0.10	0.70 - 1.30	0.10	0.10 - 0.45	0.10	0.10	0.10	0.40	0.10	0.80	0.10
					Date	024-07-25T15:00:00Z	024-07-15T15:00:00Z	024-07-15T15:00:00Z	024-07-15T16:00:00Z	024-07-16T10:00:00Z	024-07-16T11:00:00Z	024-07-16T12:00:00Z	024-07-16T12:00:00Z	024-07-18T08:00:00Z	024-07-18T09:00:00Z	024-07-18T10:00:00Z
Inorganics																
Arsenic	AGAC	Oral	80	54		15	10	18	10	12	4.2	7	5.8	9.3	5.4	11
Cadmium	AGAC	Oral	140	50		< 0.10	< 0.10			< 0.10	< 0.10		< 0.10		< 0.10	0.52
Cyanide - Free	AGAC	Oral	24	10		10	0.5	0.5	0.8	1.2	1	0.6	< 0.50	0.6	< 0.50	0.8
Organics																
Benzene	AGAC	Oral & Inhalation	47													
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000													
Vinyl Chloride	AGAC	Inhalation	98													

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP12	TP09	TP09	TP14	TP11	TP08	TP16	WS04	BH01	BH02	BH03
					Depth (m)	0.10	0.10	0.10	0.60	0.90	0.10	0.15	0.10	0.10 - 0.35	0.10	
					Date	024-07-18T10:00:00Z	024-07-18T11:00:00Z	024-07-18T11:00:00Z	024-07-18T12:00:00Z	024-07-18T12:00:00Z	024-07-18T15:00:00Z	024-07-23T14:00:00Z	024-07-30T00:00:00Z	024-07-30T00:00:00Z	024-07-30T00:00:00Z	
Inorganics																
Arsenic	AGAC	Oral	80	54		15	4.4	5	4.4	14		10	8.4	14	10	
Cadmium	AGAC	Oral	140	50		0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10
Cyanide - Free	AGAC	Oral	24	10		0.8	0.7	< 0.50	0.6	< 0.50	< 0.50	0.6	1.1	0.5	0.7	0.8
Organics																
Benzene	AGAC	Oral & Inhalation	47													
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000													
Vinyl Chloride	AGAC	Inhalation	98													

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH06	TP20	TP19	TP19	TP17	BH08	BH10	TP22	TP24	TP25	BH11	
					Depth (m)	0.10 - 0.40	0.10	0.10	1.20	0.10	0.10 - 0.40	0.10 - 0.40	0.10	0.10	0.10	0.10 - 0.40	
					Date	024-07-30T00:00:00	024-07-25T12:00:00	024-07-25T12:00:00	024-07-25T12:00:00	024-07-25T13:00:00	024-07-25T13:00:00	024-07-25T13:00:00	024-07-25T14:00:00	024-07-25T15:00:00	024-07-25T15:00:00	024-07-25T15:00:00	
Inorganics																	
Arsenic	AGAC	Oral	80	54			9.9	23	1.6		19	5.9	9	8.1	5.9		
Cadmium	AGAC	Oral	140	50		< 0.10	0.13	0.79	0.3	0.1	0.22	< 0.10	< 0.10		< 0.10	0.22	
Cyanide - Free	AGAC	Oral	24	10		0.7	0.8	< 0.50	0.6	0.7	0.9	< 0.50	< 0.50	0.6	< 0.50	0.6	
Organics																	
Benzene	AGAC	Oral & Inhalation	47														
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000														
Vinyl Chloride	AGAC	Inhalation	98														

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL01	SL02	SL03	SL04	SL05	SL06	SL07	SL08	SL09	SL10	SL11
					Depth (m)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
					Date	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00	024-07-26T09:30:00
Inorganics																
Arsenic	AGAC	Oral	80	54			54	9.8	6.8	7.5	11	13	12	13	14	
Cadmium	AGAC	Oral	140	50		3.9	50	< 0.10				< 0.10	< 0.10	< 0.10	0.13	< 0.10
Cyanide - Free	AGAC	Oral	24	10		1.9	1.5	< 0.50	< 0.50	0.6	< 0.50	< 0.50	0.6	0.8	0.7	0.5
Organics																
Benzene	AGAC	Oral & Inhalation	47													
Phenol	AGAC	Oral	2,000	7.7		0.6	7.7	0.1	< 0.10	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000													
Vinyl Chloride	AGAC	Inhalation	98													

Acute human health risk (soils)

Scenario	Public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	Ingestion of a single 5g bolus of soil whilst playing on site
Demal exposure	Soil being left on the skin for several hours
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL12	SL13	SL14	SL15	SL16	SL17	TP09
					Depth (m)	0.10	0.10	0.10	0.10	0.10 - 0.40	0.10 - 0.40	1.00
					Date	024-07-26T09:40:00	024-07-26T09:40:00	024-07-26T09:40:00	024-07-26T09:40:00	024-07-26T09:40:00	024-07-26T09:40:00	024-07-18T11:00:00
Inorganics												
Arsenic	AGAC	Oral	80	54		13			11	5		
Cadmium	AGAC	Oral	140	50		< 0.10	0.13			0.55	0.13	< 0.10
Cyanide - Free	AGAC	Oral	24	10		0.5	0.8	0.7	0.7	0.6	0.7	< 0.50
Organics												
Benzene	AGAC	Oral & Inhalation	47									
Phenol	AGAC	Oral	2,000	7.7		< 0.10	< 0.10	< 0.10	< 0.10	0.1	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000									
Vinyl Chloride	AGAC	Inhalation	98									

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH04	TP03	BH05	TP04	TP06	TP07	TP07	TP10	TP15
				Depth (m)	0.10	0.10	0.10 - 0.45	0.10	0.10	0.10	0.40	0.10	0.10
				Date	024-07-25T15:10	024-07-15T15:50	024-07-15T16:10	024-07-16T10:30	024-07-16T11:30	024-07-16T12:40	024-07-16T12:40	024-07-18T08:40	024-07-18T10:10
Soil parameters													
pH	BSI-u	8.5	8.9		8.3	8.2	7.9	8.2	8.2	8.3	8.4	8.3	8.8
pH	BSI-l	5.5	7.2		8.3	8.2	7.9	8.2	8.2	8.3	8.4	8.3	8.8
Potentially toxic element													
Arsenic	SSIA	50			15	18	10	12	4.2	7	5.8	9.3	11
Cadmium	SSIA	3	0.79		< 0.10			< 0.10	< 0.10		< 0.10		0.52
Chromium (III)	SSIA	400	56		20	56	7.9		14	23		28	
Lead	SSIA	300	520		150	120	38	62	19	35	14	46	71
Mercury	SSIA	1	0.53		0.15	0.12	0.12	0.11	0.05	0.08	< 0.05	0.1	0.09
Selenium	SSIA	3	2.4		0.68	0.5	0.37	0.45	< 0.25	0.63	< 0.25	0.37	2.4
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		81	130	25	25	9.9	17	16	19	26
Nickel	SSIA	110	55		12	55	6.4	7.1	9.4	13	16	11	7.3
Zinc	SSIA	300	160		41	140	27	25	27	42	36	49	39

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP12	TP09	TP09	TP14	TP11	TP08	TP16	WS04	BH01
				Depth (m)	0.10	0.10	0.10	0.60	0.90	0.10	0.15	0.10	
				Date	024-07-18T10:30:00	024-07-18T11:00:00	024-07-18T11:50:00	024-07-18T12:10:00	024-07-18T12:30:00	024-07-18T15:20:00	024-07-23T14:50:00	024-07-30T00:00:00	
Soil parameters													
pH	BSI-u	8.5	8.9		8.6	8.7	8.6	8.4	8.5	8.6	8.5	8.7	8.6
pH	BSI-l	5.5	7.2		8.6	8.7	8.6	8.4	8.5	8.6	8.5	8.7	8.6
Potentially toxic element													
Arsenic	SSIA	50			15	4.4	5	4.4	14			10	8.4
Cadmium	SSIA	3	0.79		0.12	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	< 0.10	
Chromium (III)	SSIA	400	56		15	13	19	14		17	9.2		9.8
Lead	SSIA	300	520		57	24	9.9	29	51	46	47	52	24
Mercury	SSIA	1	0.53		0.12	0.05	< 0.05	0.06	0.1	0.08	0.11	0.1	0.05
Selenium	SSIA	3	2.4		0.55	0.31	0.39	0.36	0.98	0.55	0.65	0.55	0.63
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		35	13	16	14	31	35	24	30	13
Nickel	SSIA	110	55		8.2	7.6	22	9.3	31	17	6.7	10	7.5
Zinc	SSIA	300	160		48	26	39	36	89	55	24	35	27

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	BH02	BH03	BH06	TP20	TP19	TP19	TP17	BH08	BH10
				Depth (m)	0.10 - 0.35	0.10	0.10 - 0.40	0.10	0.10	1.20	0.10	0.10 - 0.40	0.10 - 0.40
				Date	024-07-30T00:00:00	024-07-30T00:00:00	024-07-30T00:00:00	024-07-25T12:30:00	024-07-25T12:40:00	024-07-25T12:40:00	024-07-25T13:00:00	024-07-25T13:10:00	024-07-25T13:20:00
Soil parameters													
pH	BSI-u	8.5	8.9		8.7	8.8	8.9	8.9	8.6	8.4	7.6	8.3	7.5
pH	BSI-l	5.5	7.2		8.7	8.8	8.9	8.9	8.6	8.4	7.6	8.3	7.5
Potentially toxic element													
Arsenic	SSIA	50			14	10		9.9	23	1.6		19	5.9
Cadmium	SSIA	3	0.79		< 0.10	< 0.10	< 0.10	0.13	0.79	0.3	0.1	0.22	< 0.10
Chromium (III)	SSIA	400	56		8.6		10	12			13	22	19
Lead	SSIA	300	520		57	44	51	58	50	8	520	100	18
Mercury	SSIA	1	0.53		0.21	0.17	0.11	0.14	0.06	0.07	0.38	0.53	< 0.05
Selenium	SSIA	3	2.4		0.58	0.49	0.44	0.37	1.4	0.48	0.62	0.99	0.39
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		72	56	23	54	190	6.6	35	41	18
Nickel	SSIA	110	55		8	5.7	7.6	7.5	44	6.2	19	17	22
Zinc	SSIA	300	160		36	25	28	53	160	24	56	84	47

Phytotoxicity

Scenario													
Land use				Planting									
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP22	TP24	TP25	BH11	SL03	SL04	SL05	SL06	SL07
				Depth (m)	0.10	0.10	0.10	0.10 - 0.40	0.10	0.10	0.10	0.10	0.10
				Date	024-07-25T14:4	024-07-25T15:0	024-07-25T15:0	024-07-25T15:1	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4
Soil parameters													
pH	BSI-u	8.5	8.9		8	7.9	7.8	7.8	7.6	7.5	7.7	7.6	7.2
pH	BSI-l	5.5	7.2		8	7.9	7.8	7.8	7.6	7.5	7.7	7.6	7.2
Potentially toxic element													
Arsenic	SSIA	50			9	8.1	5.9		9.8	6.8	7.5	11	13
Cadmium	SSIA	3	0.79		< 0.10		< 0.10	0.22	< 0.10				< 0.10
Chromium (III)	SSIA	400	56		10	10	7.4	27		14	9.1	8	15
Lead	SSIA	300	520		38	58	20	95	33	37	43	57	62
Mercury	SSIA	1	0.53		0.06	0.1	0.05	0.49	0.08	0.16	0.13	0.14	0.13
Selenium	SSIA	3	2.4		0.29	0.35	< 0.25	0.88	0.34	< 0.25	< 0.25	0.29	0.47
Potentially toxic element (pH >7.0)													
Copper	SSIA	200	300		21	23	24	67	18	48	27	31	27
Nickel	SSIA	110	55		11	10	7.8	13	5.7	4.1	4.7	9.2	11
Zinc	SSIA	300	160		47	30	31	80	24	23	29	38	45

Phytotoxicity

Scenario														
Land use				Planting										
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL08	SL09	SL10	SL11	SL12	SL13	SL14	SL15	SL16	
				Depth (m)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10 - 0.40
				Date	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4	024-07-26T09:4
Soil parameters														
pH	BSI-u	8.5	8.9		7.5	7.4	8	8.1	8	7.9	7.8	7.7	7.7	
pH	BSI-l	5.5	7.2		7.5	7.4	8	8.1	8	7.9	7.8	7.7	7.7	
Potentially toxic element														
Arsenic	SSIA	50			12	13	14				13	11		
Cadmium	SSIA	3	0.79		< 0.10	< 0.10	0.13	< 0.10	< 0.10	0.13			0.55	
Chromium (III)	SSIA	400	56			9.7	13	7.4	7.1	13	35	14	13	
Lead	SSIA	300	520		53	56	85	57	31	70	230	63	75	
Mercury	SSIA	1	0.53		0.13	0.22	0.16	0.09	0.08	0.2	0.18	0.27	0.14	
Selenium	SSIA	3	2.4		0.47	0.37	0.57	< 0.25	< 0.25	0.39	0.45	0.35	0.42	
Potentially toxic element (pH >7.0)														
Copper	SSIA	200	300		28	29	68	20	22	36	42	36	300	
Nickel	SSIA	110	55		8.7	8.7	10	7.2	5.5	7	9.5	8.4	11	
Zinc	SSIA	300	160		44	42	65	22	27	45	66	45	110	

Phytotoxicity

Scenario						
Land use		Planting				
Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	SL17	TP09
				Depth (m)	0.10 - 0.40	1.00
				Date	2024-07-26T09:40:00	2024-07-18T11:00:00
Soil parameters						
pH	BSI-u	8.5	8.9		7.8	8.6
pH	BSI-l	5.5	7.2		7.8	8.6
Potentially toxic element						
Arsenic	SSIA	50			5	
Cadmium	SSIA	3	0.79		0.13	< 0.10
Chromium (III)	SSIA	400	56		13	19
Lead	SSIA	300	520		87	9.9
Mercury	SSIA	1	0.53		0.19	< 0.05
Selenium	SSIA	3	2.4		0.39	0.39
Potentially toxic element (pH >7.0)						
Copper	SSIA	200	300		32	16
Nickel	SSIA	110	55		8.3	22
Zinc	SSIA	300	160		59	39

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Not undertaken			
Chronic human health risk - Soils	Not undertaken			
Chronic human health risk - Groundwater vapour	Not undertaken			
Controlled waters risk - Surface water	Complete	Mar 2023	JT	SCD
Controlled waters risk - Drinking water	Not undertaken			
Controlled waters - Free phase indicator	Not undertaken			
Phytotoxicity	Not undertaken			
Ecotoxicity	Not undertaken			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Controlled waters risk - Surface water	PNEC	Predicted no effect concentration. Derived from the Metals Bioavaililtiy Assessment Tools (M-BAT) (UK TAG)	Nov. 2013 (Cu,Ni,Mn,Zn) March 2015 (Pb)
	AA-EQS	Environmental Quality Standards AA = Annual average (Environment Agency)	August 2021
	EA	Petroleum Hydrocarbons in Groundwater: Supplementary Guidance for Hydrogeological Risk Assessment (Environment Agency)	April 2009
	MAC-EQS	Environmental Quality Standards MAC = Maximum Allowable Concentration (Environment Agency)	August 2021

Controlled waters risk

Scenario	
Receptor	Surface water - Inland freshwater
Hydrometric area	English and Welsh freshwaters
Are bioavailability parameters known?	No

Contaminant	Guideline source	Guideline value (µg/l)	Max value (µg/l)	Location	Spring 1	Spring 1	Spring 1	Spring 2	Spring 3	Spring 3
				Depth (m)	0.00	0.00	0.00	0.00	0.00	0.00
				Type	EW	EW	EW	EW	EW	EW
				Date	30/01/23	22/02/23	14/03/23	30/01/23	30/01/23	22/02/23
Inorganics - Metals										
Arsenic	AA-EQS	50	3		0.53	0.61	0.79	3	0.94	0.57
Boron	AA-EQS	2000	61		35	57	23	34	41	56
Cadmium	AA-EQS	0.08	0.33		0.15	0.33	0.21	< 0.11	< 0.11	0.13
Chromium (total)	NGA	NGA	19		5.2	1.2	19	5.2	<LoD	<LoD
Chromium (III)	AA-EQS	4.7	19		5.2	1.2	19	5.2	< 0.50	< 0.50
Copper	AA-EQS	1	30		18	30	19	4	2.6	8.3
Lead	AA-EQS	1.2	1.5		< 0.50	0.64	1.5	1.3	< 0.50	0.52
Mercury	MAC-EQS	0.07	<LoD		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	AA-EQS	4	4.6		3.4	4.6	4	3	1.2	2.8
Selenium	NGA	NGA	2.8		2.7	2.8	< 0.50	2.3	2	2.6
Vanadium	AA-EQS	20	2.3		1.2	< 0.50	0.71	2.3	1.1	< 0.50
Zinc	NGA	12.3	110		60	110	77	10	2.6	9.8
Inorganics - Miscellaneous										
pH	NGA	NGA	7.7		7.7	7.2	7.2	7.3	7.3	7.2
Cyanide - Total	NGA	NGA	<LoD		< 50	< 50	< 50	< 50	< 50	< 50
Cyanide - Free	AA-EQS	1	<LoD		< 50	< 50	< 50	< 50	< 50	< 50
Nitrate (as NO3)	NGA	NGA	13000		3700	2500	12000	< 500	< 500	1100
Sulphate	AA-EQS	400000	35000		13000	14000	9500	14000	26000	35000
Phosphate	NGA	NGA	<LoD		<20	<20	<20	<20	<20	<20
Organics - PAH & Phenol										
Naphthalene	AA-EQS	2	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	AA-EQS	0.1	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	AA-EQS	0.0063	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	AA-EQS	0.00017	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
PAH (sum of 4)	NGA	NGA	<LoD		<LoD	<LoD	<LoD	<LoD	<LoD	<LoD
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30	< 30	< 30	< 30
Organics - SVOCs										
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30	< 30	< 30	< 30

Controlled waters risk

Scenario	
Receptor	Surface water - Inland freshwater
Hydrometric area	English and Welsh freshwaters
Are bioavailability parameters known?	No

Contaminant	Guideline source	Guideline value (µg/l)	Max value (µg/l)	Location	Spring 3	Spring 4	Spring 4
				Depth (m)	0.00	0.00	0.00
				Type	EW	EW	EW
				Date	14/03/23	22/02/23	14/03/23
Inorganics - Metals							
Arsenic	AA-EQS	50	3		0.34	0.45	0.38
Boron	AA-EQS	2000	61		31	61	28
Cadmium	AA-EQS	0.08	0.33		< 0.11	0.2	< 0.11
Chromium (total)	NGA	NGA	19		2.1	<LoD	5
Chromium (III)	AA-EQS	4.7	19		2.1	< 0.50	5
Copper	AA-EQS	1	30		7.6	3.6	3.3
Lead	AA-EQS	1.2	1.5		< 0.50	< 0.50	< 0.50
Mercury	MAC-EQS	0.07	<LoD		< 0.05	< 0.05	< 0.05
Nickel	AA-EQS	4	4.6		1.4	2.7	1.7
Selenium	NGA	NGA	2.8		< 0.50	2.6	< 0.50
Vanadium	AA-EQS	20	2.3		< 0.50	< 0.50	< 0.50
Zinc	NGA	12.3	110		9.4	25	16
Inorganics - Miscellaneous							
pH	NGA	NGA	7.7		7.3	6.9	7.3
Cyanide - Total	NGA	NGA	<LoD		< 50	< 50	< 50
Cyanide - Free	AA-EQS	1	<LoD		< 50	< 50	< 50
Nitrate (as NO3)	NGA	NGA	13000		13000	1100	7400
Sulphate	AA-EQS	400000	35000		18000	23000	11000
Phosphate	NGA	NGA	<LoD		<20	<20	<20
Organics - PAH & Phenol							
Naphthalene	AA-EQS	2	<LoD		< 0.10	< 0.10	< 0.10
Acenaphthylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Acenaphthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Fluorene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Phenanthrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Anthracene	AA-EQS	0.1	<LoD		< 0.10	< 0.10	< 0.10
Fluoranthene	AA-EQS	0.0063	<LoD		< 0.10	< 0.10	< 0.10
Pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(a)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Chrysene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(a)pyrene	AA-EQS	0.00017	<LoD		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
Benzo(ghi)perylene	NGA	NGA	<LoD		< 0.10	< 0.10	< 0.10
PAH (sum of 4)	NGA	NGA	<LoD		<LoD	<LoD	<LoD
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30
Organics - SVOCs							
Phenol	AA-EQS	7.7	<LoD		< 30	< 30	< 30

Project Reference

STV5936

Site Name

Cowm Top, Rochdale

Client

Barratt Homes Manchester

Run by

TT

Date

10-Dec-24

Scenario details

Decision Support Tool for CAR2012 Work Categories

Stage 1

Hazard Factors

Score

Select ACM type (run model for each type to generate 'Worst Case' output)

Extent of degradation of ACMs at outset of work

Friability and degree of bonding by matrix (ACM matrix, not ground materials)

Distribution of Visible Asbestos Across Affected Area

Amount of asbestos fibre in selected ACM/fibre type as % of host material

Free dispersed fibres/fibre bundles

2

Disaggregated (dominated by loose fibrous material; extreme degradation in ACM and/or free asbestos fibres/fibre bundles)

4

Friable ACM or ACM with fibres not linked in any matrix (free dispersed fibres/fibre bundles)

4

No visible ACMs/fibre bundles

0

Large quantities - >0.1 %wt/wt

4

Sub-total

14

Note: the asbestos licensing regime is unaffected by the type of asbestos fibre present in ACMs

Hazard ranking

Medium

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.

It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

Stage 2

Exposure Factors

Score

Anticipated airborne fibre concentration - Control Limit or SALI?
 Anticipated duration of exposure to asbestos
 Activity type and effect on deterioration of ACMs during work
 Best description of primary host material matrix (soil/made ground)
 Respirable fibre index for ACM - RIVM report 711701034 (2003)

<0.01 fibres/ml	1
> 2 hours in a 7 day period and Up to 10 hours in a day (e.g. full time occupational exposure)	4
Sampling, manual or mechanical (no or minimal deterioration expected)	0
Made Ground - Recycled Aggregate, Track Ballast	4
High	4

Sub-total

13

Exposure ranking

Medium

Combined hazard and exposure ranking

27

Medium

Stage 3

Risk Assessment Outputs

Probable Licensing Status	Non-Licensed Work
RPE*	EN140 with P3 filter half mask
Dust Suppression**	Localised mechanical dust suppression
Hygiene/Decontamination***	Localised and enhanced personal decontamination facilities

*Where RPE has to be worn continuously for long periods (e.g. more than 1-hour), then powered RPE may be necessary.

**Reduction in control measures possible if natural mitigation factors are present (e.g. raining, wet ground)

***Guide only; suitability of selected personal hygiene measures may be reviewed on a site/contamination-specific basis

Appendix J Utility Service Plans

Soiltechnics

**Soiltechnics
Cedar Barn,
Walgrave,
NN6 9PY**

FAO:

How to contact us:

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

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

**Your Ref: STV5936
Our Ref: UUPS-ORD-583056
Date: 02/07/2024**

Dear Sirs**Location: COWM TOP HOUSE COWM TOP LANE, ROCHDALE, OL11 2PU**

I acknowledge with thanks your request dated 01/07/2024 for information on the location of our services.

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

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

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

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

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack
Property Searches Manager

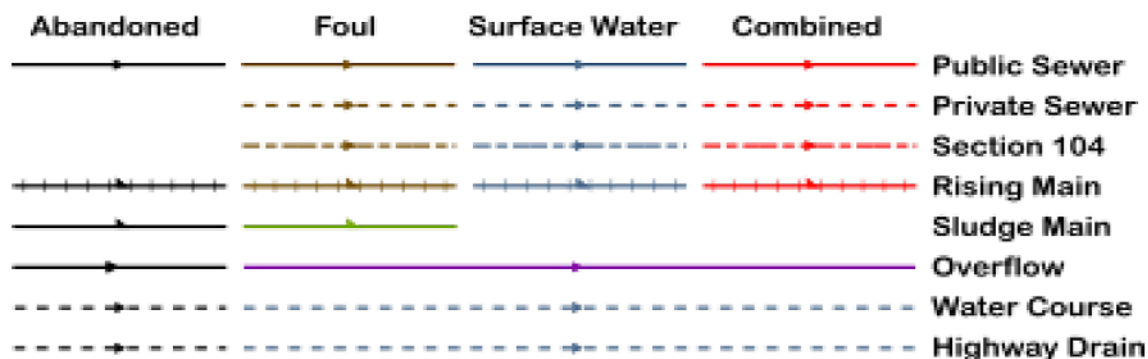
TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

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

TERMS AND CONDITIONS:

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

Wastewater Symbolology



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

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

Scale: 1:3869 Date: 02/07/2024	SEWER RECORDS	 Water for the North West
Address or Site Reference: COWM TOP HOUSE COWM TOP LANE, ROCHDALE, OL11 2PU Printed by: Property Searches		

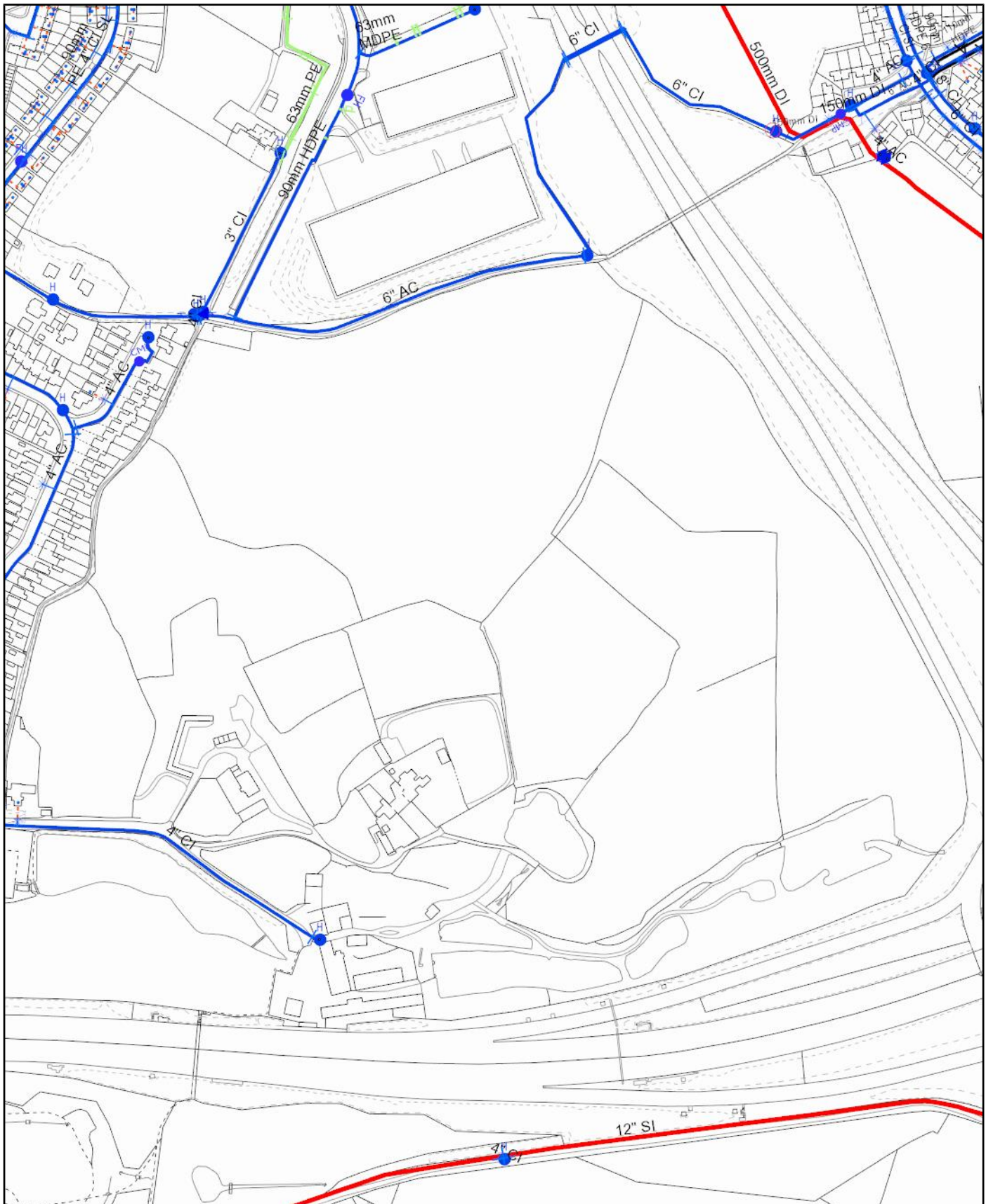
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Clean Water Symbolology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water
			Air Valve
			AC Valve, open
			AC Valve, closed
			CC Valve, open
			CC Valve, closed
			Non Return Valve
			Pressure Management Valve
			OMS Valve
			Stop Tap
			Flow Meter
			Domestic Meter
			Commercial Meter
			Pump
			Hydrant
			Fire Hydrant
			Anode
			Chlorination Point
			De-chlorination Point
			Strainer Point
			Access Point
			Hatch Box
			IP Point
			Sampling Station
			Logger Box
			Bore Hole
			Inlet Point
			Bulk Supply Point
			End Cap
			Site Termination
			Change of Characteristic
			Condition Report
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

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



Scale: 1:3869
Date: 02/07/2024

WATER MAINS RECORDS

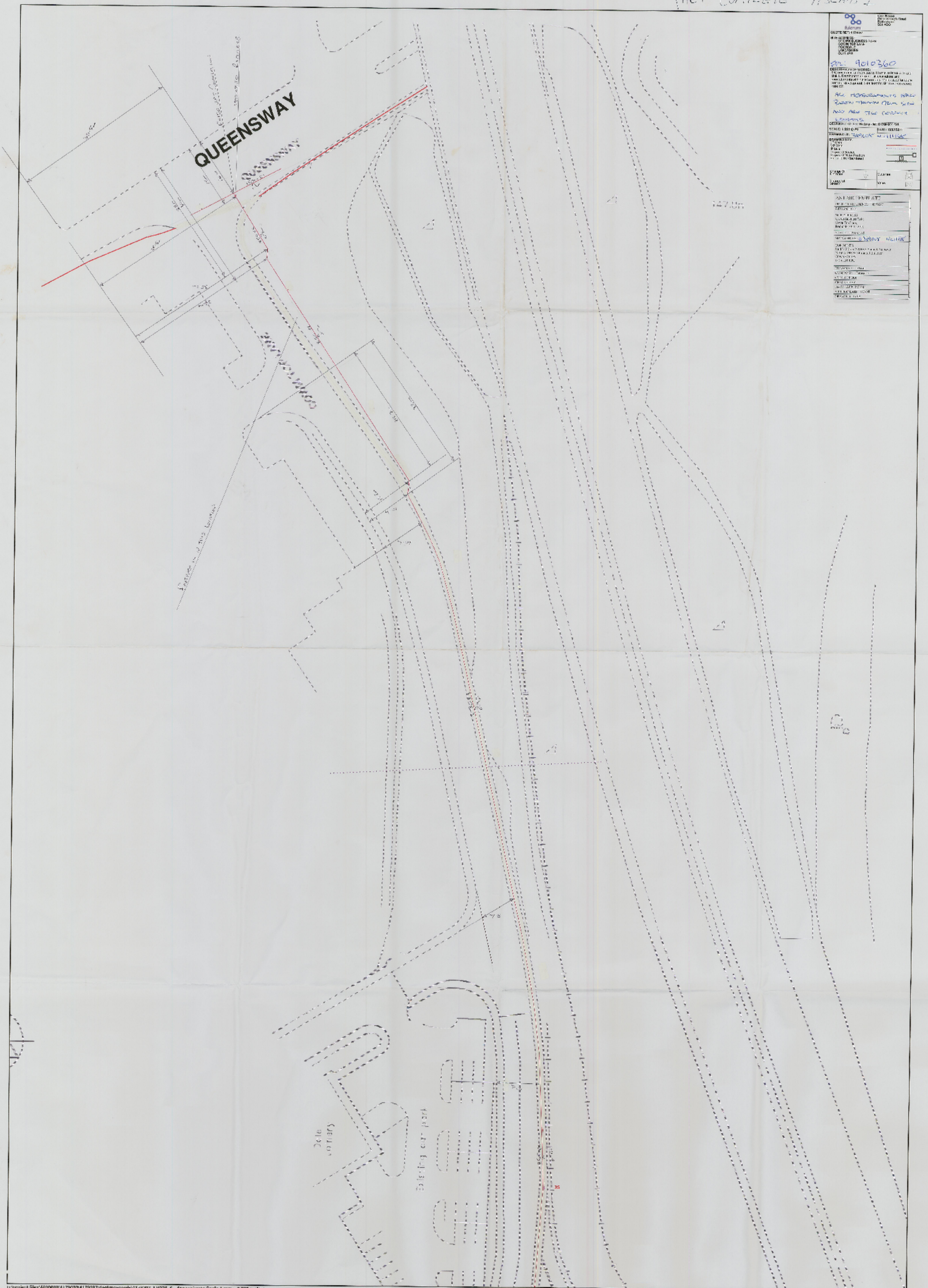
Address or Site Reference: COWM TOP HOUSE COWM TOP LANE,
ROCHDALE, OL11 2PU

Printed by: Property Searches



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

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DRAWING 1 of 1

1000000



National Grid Polygon Report

1 of 2

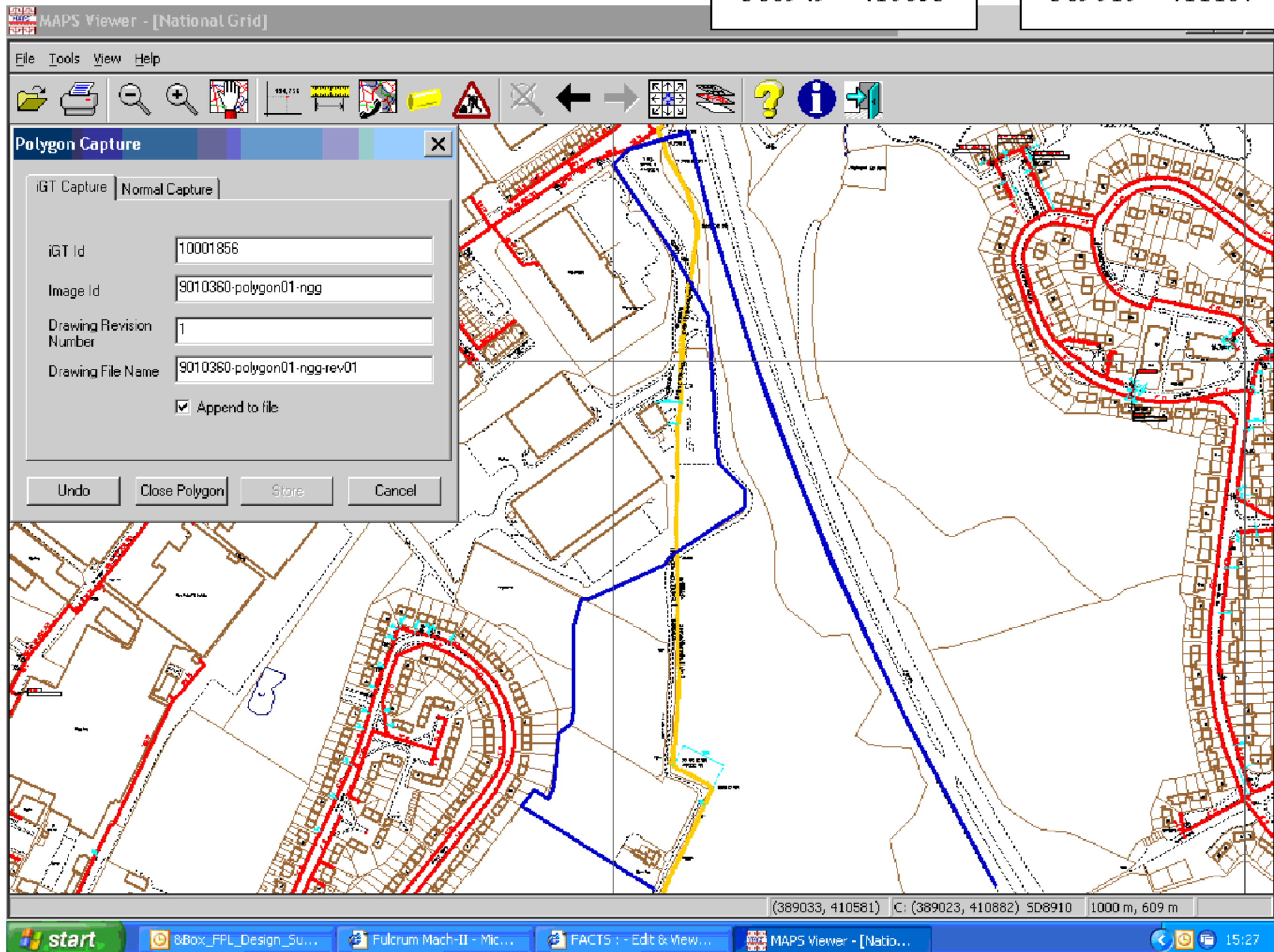
FPL Ref No.: 9010360

NGG Ref No.: 15276101

Site Address:
Crown Business Park
Cowm Top Lane
Rochdale
Lancashire
OL11 2PU

389010 – 411167
389001 – 411154
389049 – 411082
389076 – 411035
389082 – 410935
389084 – 410919
389104 – 410898
389104 – 410884
389044 – 410845
389039 – 410839
388982 – 410810
388975 – 410811
388969 – 410790
388969 – 410724
388967 – 410712
388957 – 410705
388953 – 410633
388949 – 410653

388937 – 410660
388927 – 410647
389033 – 410581
388991 – 410482
389036 – 410470
389058 – 410469
389115 – 410482
389189 – 410510
389256 – 410522
389278 – 410523
389322 – 410547
389303 – 410584
389251 – 410679
389197 – 410789
389143 – 410911
389102 – 411027
389059 – 411182
389010 – 411167



"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with N.J.U.G. guidelines

MINIMUM DEPTHS OF COVER:-

MAINS: (a) Carriageway - 750mm (b) Other ground - 600mm

SERVICES: (a) >63mm - As above (b) <=63mm - 450mm

*All pipes laid in agricultural land - 1.1m

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

VERY IMPORTANT - INFORMATION FOR CUSTOMER

MINIMUM PROXIMITY DISTANCES

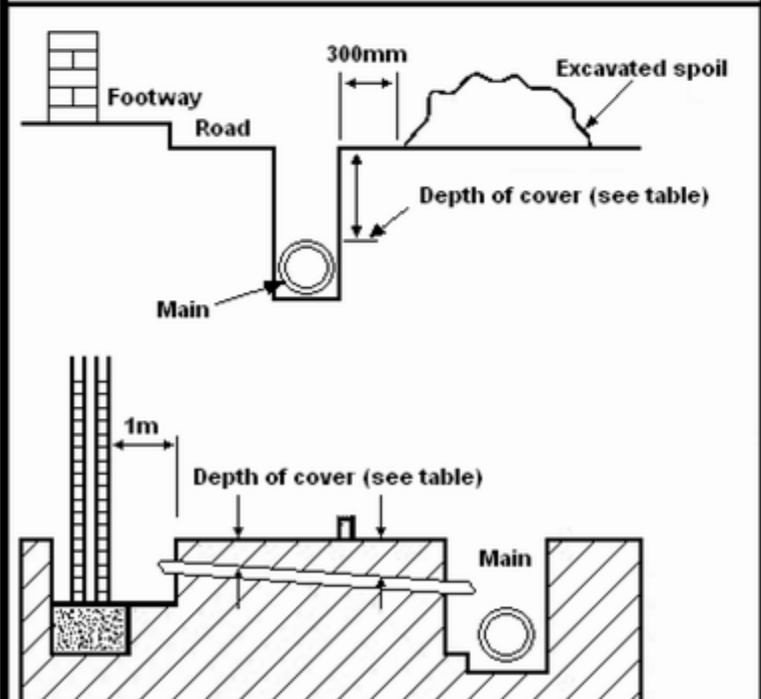
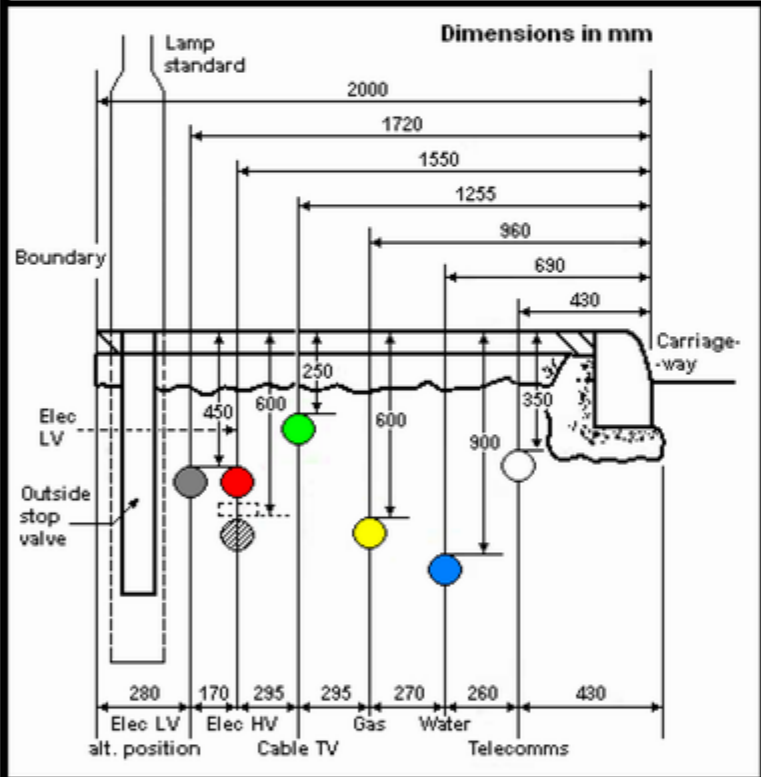
The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

STEEL MAINS

Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
IP	3

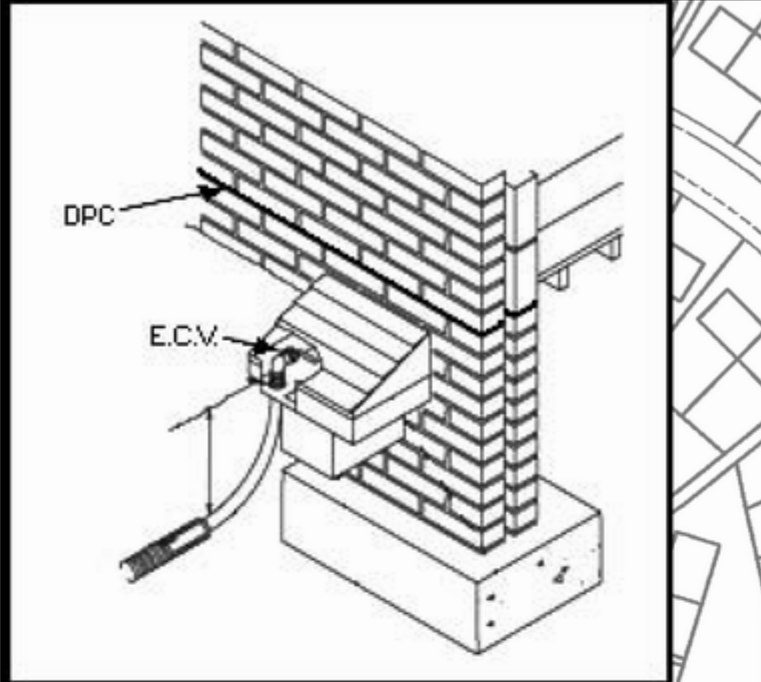
PE MAINS

O.D (mm)	Material PE Grade	Maximum Operating Pressure	
		<=75mbar (LP)	>75mbar <=2Bar (MP)
		Minimum Proximity to Premises (m)	
<=140	PE80 SDR17.6	0.25	3
	PE80 SDR11	0.25	3
	PE100 SDR11	0.25	3
160 to 250	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3
315	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3



NOTE: Valves with levers must fall to close

Pressure Tier	LP / MP
Dim A Minimum Distance	2xDiameter
Dim B Minimum Distance	300mm
Dim H Tolerance	± 25mm
Service Valve Size	Up to 50mm
Valve Type	SCREWED
No. Bolts	N/A
Bolt Size	N/A



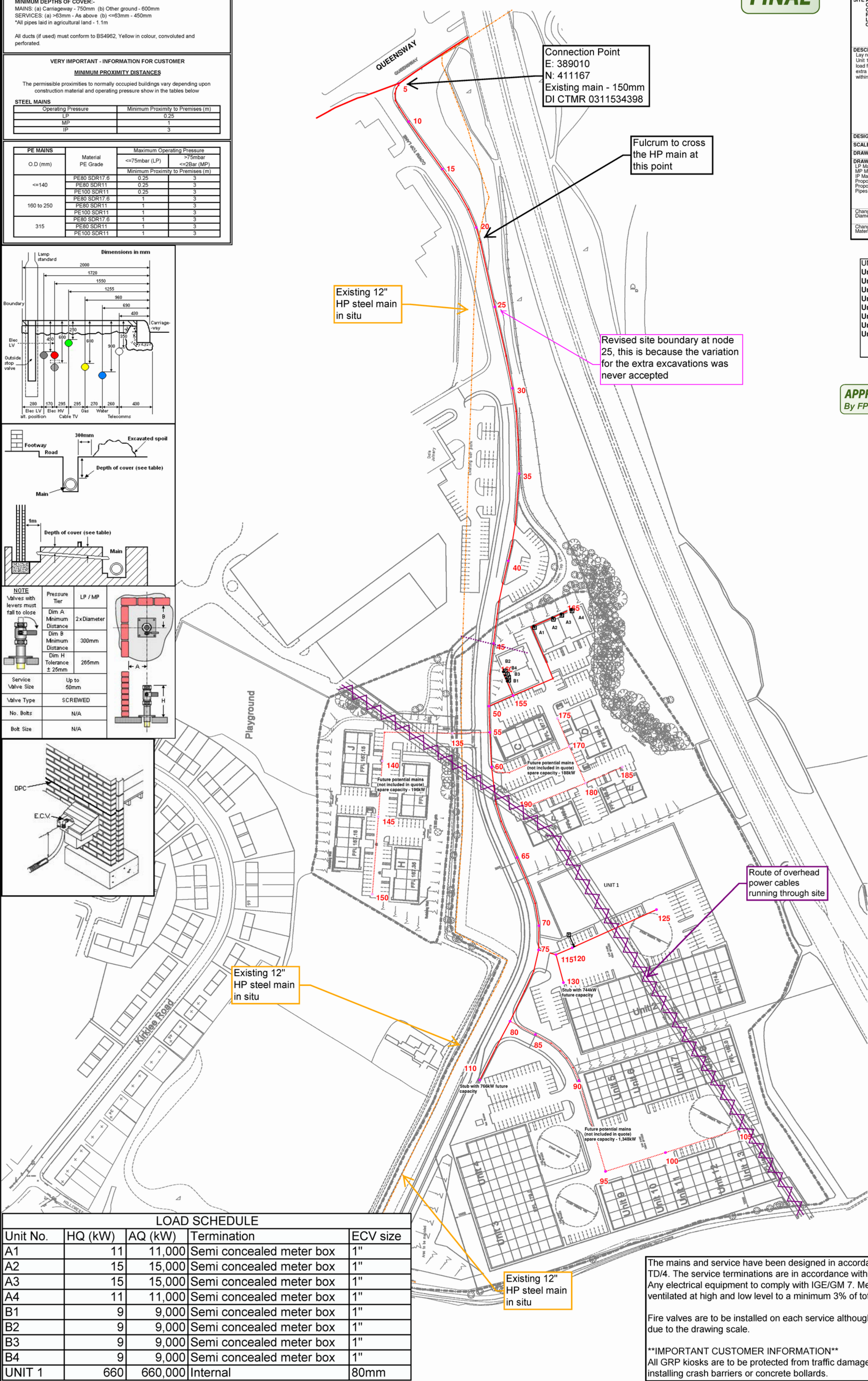
LOAD SCHEDULE				
Unit No.	HQ (kW)	AQ (kW)	Termination	ECV size
A1	11	11,000	Semi concealed meter box	1"
A2	15	15,000	Semi concealed meter box	1"
A3	15	15,000	Semi concealed meter box	1"
A4	11	11,000	Semi concealed meter box	1"
B1	9	9,000	Semi concealed meter box	1"
B2	9	9,000	Semi concealed meter box	1"
B3	9	9,000	Semi concealed meter box	1"
B4	9	9,000	Semi concealed meter box	1"
UNIT 1	660	660,000	Internal	80mm

****REINFORCEMENTS REQUIRED - THIS WILL NOT AFFECT PHASE 1 OF WORKS****

FINAL

Fulcrum Pipelines Limited 2 Europa View Sheffield Business Park Sheffield, S9 1XH	
QUOTE REF: 9010360 VARIATION (4179297)	
SITE ADDRESS: CROWN BUSINESS PARK CROWN TOP LANE ROCHDALE LANCASHIRE OL11 2PU	
DESCRIPTION OF WORKS: Lay new mains and services to 9 units at Block A, B and Unit 1. Mains sized for future potential development. Total load for site must not exceed 4000kW. Variation design 4 - 2 extra supplies, revised site boundary, developer to excavate within site boundary.	
DESIGNED BY: Lee Buttery	
SCALE: 1:1000 @ A1	DATE: 22/02/2012
DRAWING: E: 389010 N: 411167	
DRAWING KEY: LP Main MP Main IP Main Proposed Service Proposed Meter Position Pipes To Be Abandoned	
Change Of Diameter	Governor
Change Of Material	Valve
UNIT	MPRN
Unit A1	7678319105
Unit A2	7678319206
Unit A3	7678319307
Unit A4	7678319408
Unit B1	7678319509
Unit B2	7678319610
Unit B3	7678319700
Unit B4	7678319801

APPROVED
By FPL at 9:39 am, May 09, 12



The mains and service have been designed in accordance with IGE/TD/3 & IGE/TD/4. The service terminations are in accordance with IGE/GM6 & 8 and IGE/G/5. Any electrical equipment to comply with IGE/GM 7. Meter room/kiosk must be equally ventilated at high and low level to a minimum 3% of total floor area.

Fire valves are to be installed on each service although they are not clearly shown due to the drawing scale.

****IMPORTANT CUSTOMER INFORMATION****
All GRP kiosks are to be protected from traffic damage, this can be ensured by installing crash barriers or concrete bollards.

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with N.J.U.G. guidelines

MINIMUM DEPTHS OF COVER:

MAINS: (a) Carriageway - 750mm (b) Other ground - 600mm

SERVICES: (a) >63mm - As above (b) <=63mm - 450mm

*All pipes laid in agricultural land - 1.1m

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

VERY IMPORTANT - INFORMATION FOR CUSTOMER

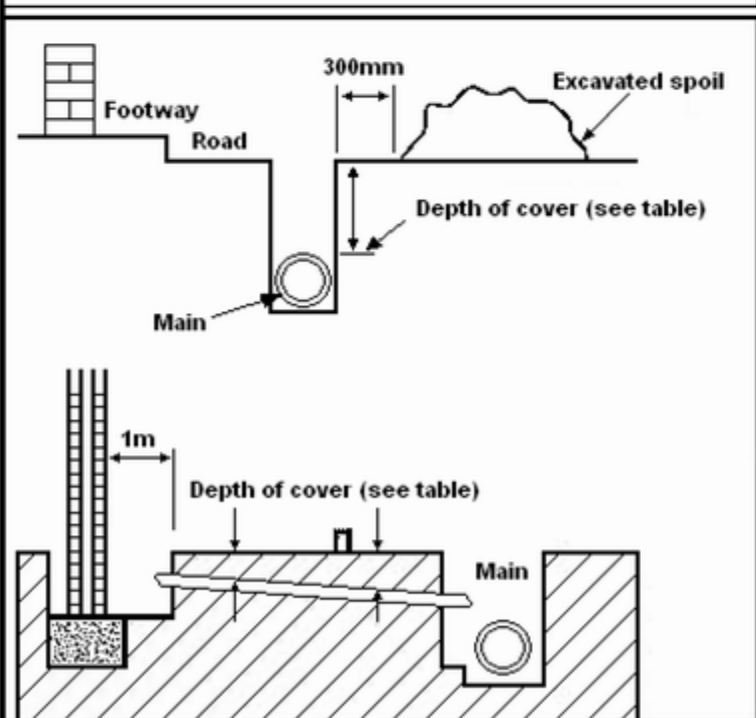
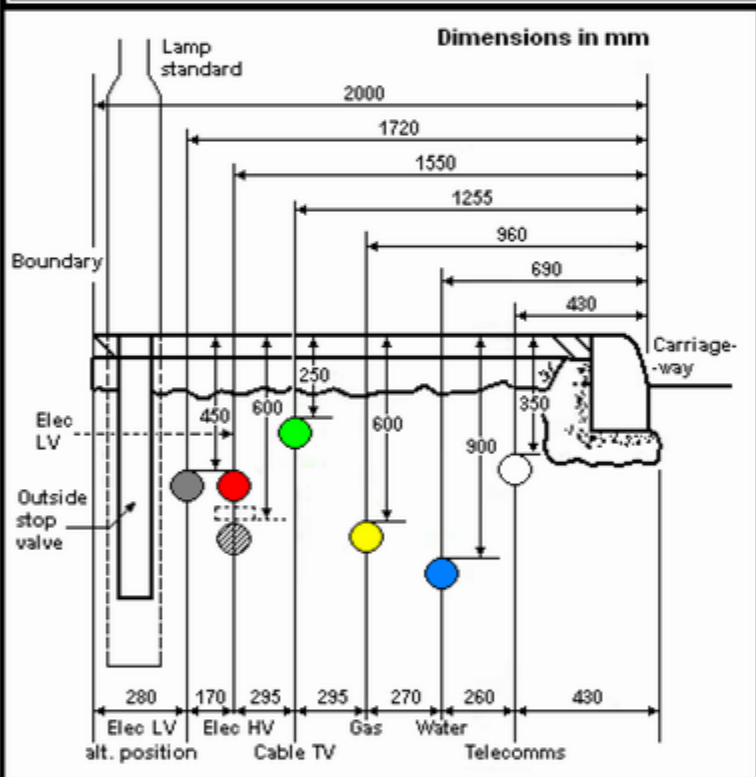
MINIMUM PROXIMITY DISTANCES

The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

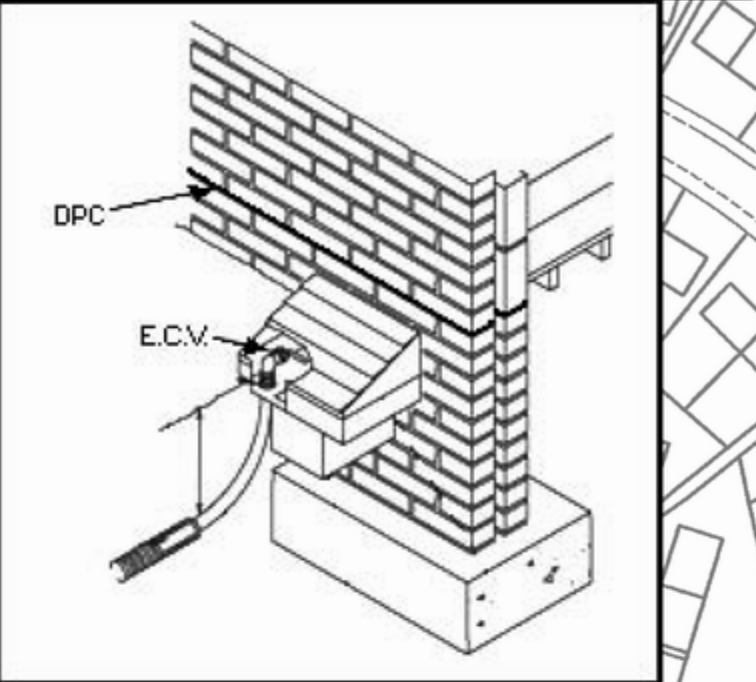
STEEL MAINS

Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
IP	3

PE MAINS		Maximum Operating Pressure	
O.D (mm)	Material PE Grade	<=75mbar (LP)	>75mbar <=2Bar (MP)
		Minimum Proximity to Premises (m)	
<=140	PE80 SDR17.6	0.25	3
	PE80 SDR11	0.25	3
	PE100 SDR11	0.25	3
160 to 250	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3
315	PE80 SDR17.6	1	3
	PE80 SDR11	1	3
	PE100 SDR11	1	3



NOTE	
Valves with levers must fall to close	
	Pressure Tier
	Dim A Minimum Distance
	Dim B Minimum Distance
	Dim H Tolerance ± 25mm
Service Valve Size	Up to 50mm
Valve Type	SCREWED
No. Bolts	N/A
Bolt Size	N/A



UNIT	MPRN
Unit 1	7678319902
Unit A1	7678319105
Unit A2	7678319206
Unit A3	7678319307
Unit A4	7678319408
Unit B1	7678319509
Unit B2	7678319610
Unit B3	7678319700
Unit B4	7678319801

LOAD SCHEDULE				
Unit No.	HQ (kW)	AQ (kW)	Termination	ECV size
A1	11	11,000	Semi concealed meter box	1"
A2	15	15,000	Semi concealed meter box	1"
A3	15	15,000	Semi concealed meter box	1"
A4	11	11,000	Semi concealed meter box	1"
B1	9	9,000	Semi concealed meter box	1"
B2	9	9,000	Semi concealed meter box	1"
B3	9	9,000	Semi concealed meter box	1"
B4	9	9,000	Semi concealed meter box	1"
UNIT 1	660	660,000	Internal	80mm

****REINFORCEMENTS REQUIRED - THIS WILL NOT AFFECT PHASE 1 OF WORKS****

APPROVED
By Fulcrum Pipelines Ltd at 11:50 am, Jul 17, 2012

VARIATION 2 APPROVAL

Fulcrum Pipelines Limited
2 Europa View
Sheffield Business Park
Sheffield, S9 1XH

QUOTE REF: 9010360 VARIATION 2 (4179297)

SITE ADDRESS:
CROWN BUSINESS PARK
CROWN TOP LANE
ROCHDALE
LANCASHIRE
OL11 2PU

DESCRIPTION OF WORKS:
Lay new mains and services to 9 units at Block A, B and Unit 1. Mains sized for future potential development. Total load for site must not exceed 4000kW. Variation design 4 - 2 extra supplies, revised site boundary, developer to excavate within site boundary.

DESIGNED BY: Lee Buttery

SCALE: 1:1000 @ A1 DATE: 16/07/2012

DRAWING: E: 389010 N: 411167

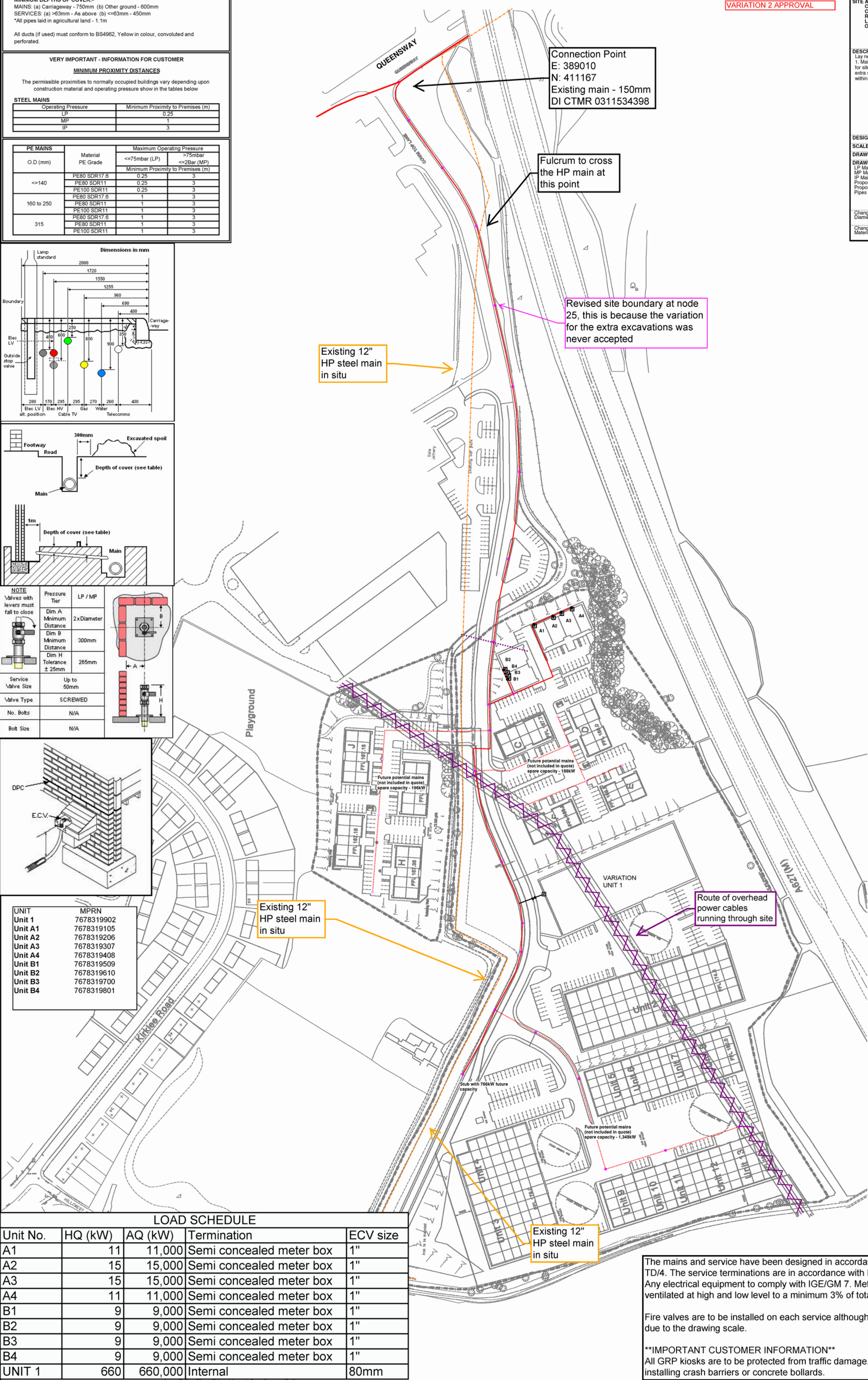
DRAWING KEY:
LP Main
MP Main
IP Main
Proposed Service
Proposed Meter Position
Pipes To Be Abandoned

Change Of Diameter

Change Of Material

Governor

Valve



The mains and service have been designed in accordance with IGE/TD/3 & IGE/TD/4. The service terminations are in accordance with IGE/GM6 & 8 and IGE/G/5. Any electrical equipment to comply with IGE/GM 7. Meter room/kiosk must be equally ventilated at high and low level to a minimum 3% of total floor area.

Fire valves are to be installed on each service although they are not clearly shown due to the drawing scale.

****IMPORTANT CUSTOMER INFORMATION****
All GRP kiosks are to be protected from traffic damage, this can be ensured by installing crash barriers or concrete bollards.

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with IGE/TD/4 guidelines

Location of Service	Minimum Depth of Cover
Carriageway	750mm
Paved Footways	600mm
Verges	750mm
Open Fields & Agricultural Land	1100mm
Other Private Ground	600mm

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

VERY IMPORTANT - INFORMATION FOR CUSTOMER

MINIMUM PROXIMITY DISTANCES

The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

STEEL MAINS

Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
IP	3

PE MAINS

O.D (mm)	Material PE Grade	Maximum Operating Pressure		Minimum Proximity to Premises (m)
		<=75mbar (LP)	>75mbar <=2Bar (MP)	
<=140	PE80 SDR17.6	0.25	3	3
	PE80 SDR11	0.25	3	3
	PE100 SDR11	0.25	3	3
160 to 250	PE80 SDR17.6	1	3	3
	PE80 SDR11	1	3	3
	PE100 SDR11	1	3	3
315	PE80 SDR17.6	1	3	3
	PE80 SDR11	1	3	3
	PE100 SDR11	1	3	3

ALL SERVICES LAID ON THIS PROJECT
COMPLY WITH THE LATEST EDITION OF
IGE / TD / 4



Fulcrum Pipelines Limited
2 Europa View
Sheffield Business Park
Sheffield, S9 1XH

QUOTE REF: 9010360 (4202266)

SCALE: 1:500 @ A3

DATE: 06/06/2012

SITE ADDRESS:

UNIT 2 CROWN BUSINESS PARK
COWM TOP LANE
ROCHDALE LANCASHIRE
OL11 2PU

DESIGNED BY: Ian Wilson

DESCRIPTION OF WORKS:

Lay new 90mm PE LP service to terminate with an 3" ECV within a GC5 kiosk, provided and installed by Fulcrum. Fulcrum to connect to 90mm PE LP FPL main laid under reference 4179297 (9010360). Fulcrum to excavate at the connection point and the customer to carry out remaining excavation.

DRAWING: V1

DRAWING KEY:

LP Main
MP Main
IP Main
Proposed Service
Proposed Meter Position
Pipes To Be Abandoned

Change Of
Diameter

Change Of
Material

Governor

Valve

This plan shows the location of those pipes owned by Scotia Gas Networks plc by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs, or third parties, may also be present in this area and are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Scotia Gas Networks plc or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (whether direct labour or sub-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.

APPROVED

By FPL at 11:57 am, Jun 25, 2012

90mm Service Isolation Valve

Unit 2 MPRN7676830406

Connection Point
E389104, N410650
SHQ = 500 kW
AQ = 500,000 kWh
3" ECV

Stub with 766kW future
capacity

GIRS ACCREDITED DESIGNER

DATE 06/06/2012

SIGNATURE

[Signature]

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

TRENCH DEPTH GUIDELINES

All trenches to be in accordance with IGE/TD/4 guidelines

Location of Service	Minimum Depth of Cover
Carriageway	750mm
Paved Footways	600mm
Verges	750mm
Open Fields & Agricultural Land	1100mm
Other Private Ground	600mm

All ducts (if used) must conform to BS4962, Yellow in colour, convoluted and perforated.

"VERY IMPORTANT - INFORMATION FOR CUSTOMER"

MINIMUM PROXIMITY DISTANCES

The permissible proximities to normally occupied buildings vary depending upon construction material and operating pressure show in the tables below

STEEL MAINS

Operating Pressure	Minimum Proximity to Premises (m)
LP	0.25
MP	1
SP	3

PE MAINS	Material PE Grade	Maximum Operating Pressure		Minimum Proximity to Premises (m)
		<=75mbar (LP)	>75mbar <=2Bar (MP)	
<=140	PE80 SDR17.6	0.25	3	
	PE80 SDR11	0.25	3	
	PE100 SDR11	0.25	3	
160 to 250	PE80 SDR17.6	1	3	
	PE80 SDR11	1	3	
	PE100 SDR11	1	3	
315	PE80 SDR17.6	1	3	
	PE80 SDR11	1	3	
	PE100 SDR11	1	3	

ALL SERVICES LAID ON THIS PROJECT
COMPLY WITH THE LATEST EDITION OF
IGE / TD / 4



Fulcrum Pipelines Limited
2 Europa View
Sheffield Business Park
Sheffield, S9 1XH

QUOTE REF: 9010360 2nd proj variation (4202266)

SCALE: 1:500 @ A3

DATE: 16/07/2012

SITE ADDRESS:

UNIT 2 CROWN BUSINESS PARK
COWM TOP LANE
ROCHDALE LANCASHIRE
OL11 2PU

DESIGNED BY: Ian Wilson

DESCRIPTION OF WORKS:

Lay new 90mm PE LP service to terminate with an 3" ECV to internal position, provided and installed by Fulcrum. Fulcrum to connect to 90mm PE LP FPL main laid under reference 4179297 (9010360). Fulcrum to excavate at the connection point and the customer to carry out remaining excavation.

DRAWING: V1

DRAWING KEY:

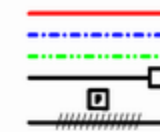
LP Main
MP Main
IP Main
Proposed Service
Proposed Meter Position
Pipes To Be Abandoned

Change Of
Diameter

Change Of
Material

Governor

Valve



Connection Point
E389104, N410650
SHQ = 500 kW
AQ = 500,000 kWh
3" ECV

Unit 2 MPRN 7676830406

APPROVED

By Fulcrum Pipelines Ltd at 12:41 pm, Jul 17, 2012

Stub with 766kW future
capacity

Future potential mains
(not included in quote)
spare capacity - 1,348kW

GIRS ACCREDITED DESIGNER

DATE

SIGNATURE

[Signature]

By Fulcrum Pipelines Limited at 10:08 am, Jun 24, 2015

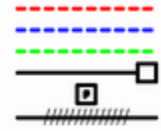


DATE: 23/04/2015

Crown Business Park
Unit 3 Cowm Top Lane
Rochdale
OL11 2PU

Lay a suitably sized LP service to a new commercial property terminating externally within a Fulcrum supplied and installed GC2 free standing kiosk. Fulcrum to excavate in public only, developer to excavate within the site boundary. Fulcrum to install the U16 meter.

DRAWING KEY:
Proposed LP Main
Proposed MP Main
Proposed IP Main
Proposed Service
Proposed Meter Pos
Pipes To Be Aband

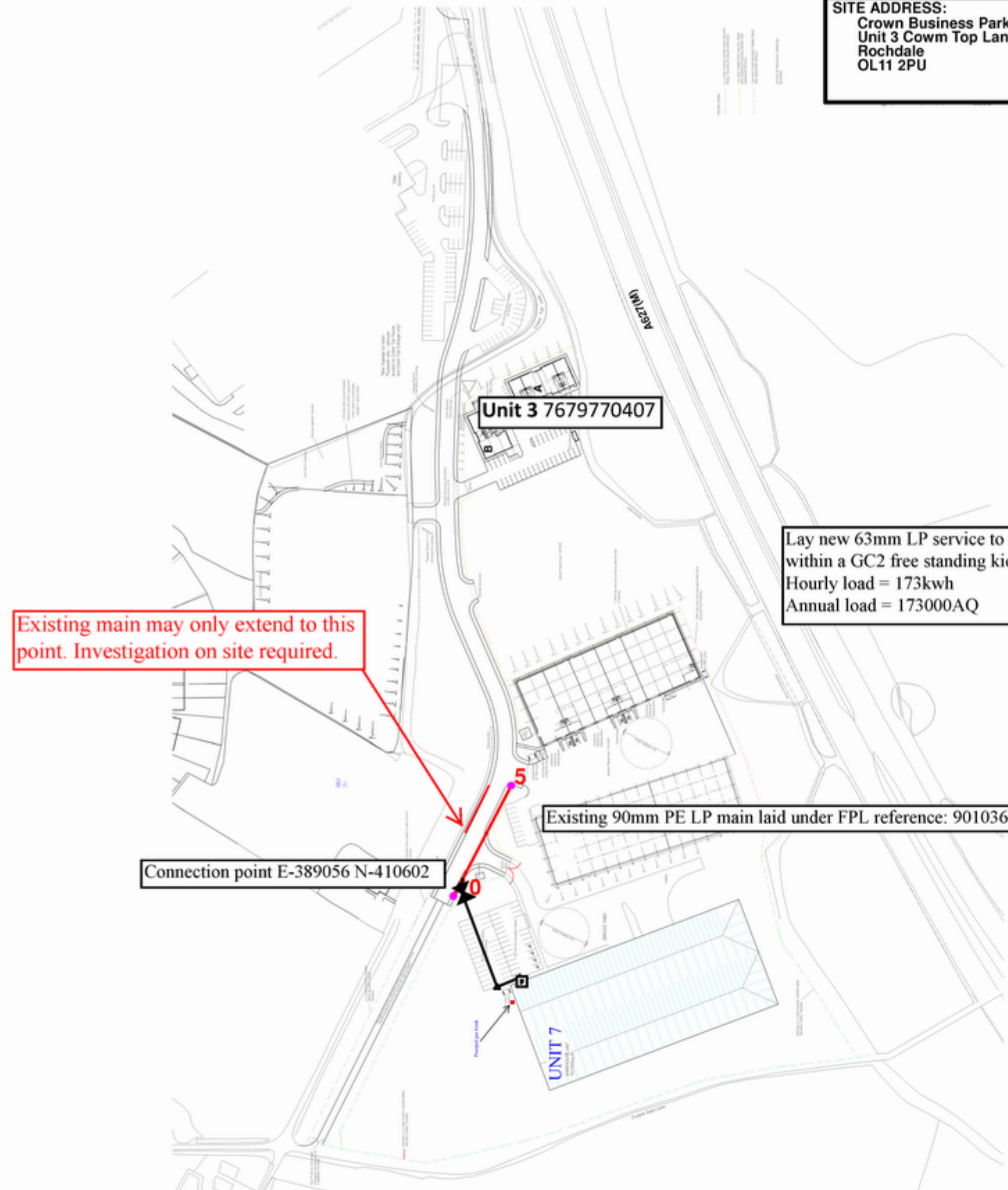


Diameter

Change Of Material	
--------------------	--

[illegible]

Valve



Lay new 63mm LP service to terminate externally within a GC2 free standing kiosk.
Hourly load = 173kwh
Annual load = 173000AQ

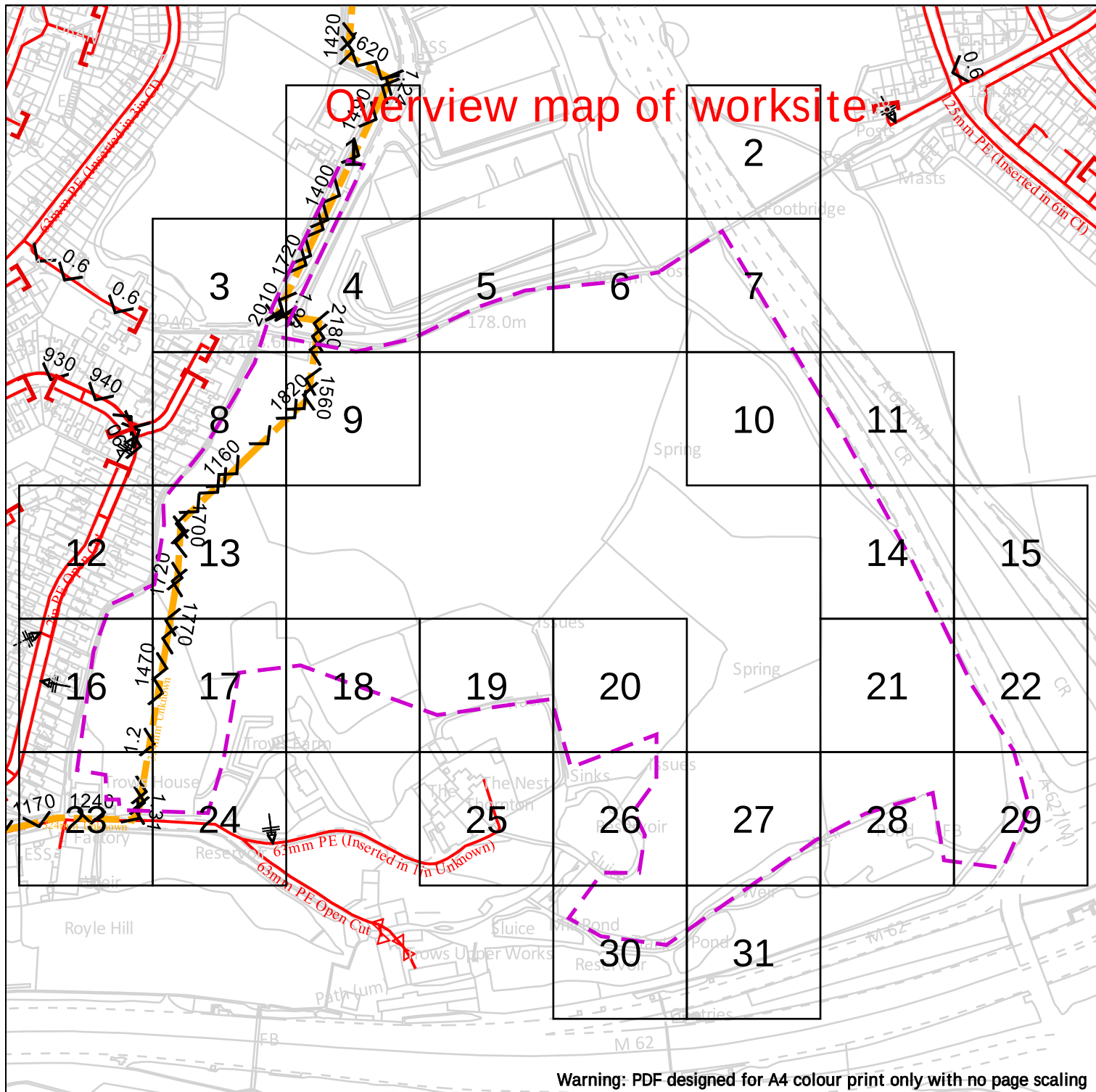
Existing main may only extend to this point. Investigation on site required.

Existing 90mm PE LP main laid under FPL reference: 9010360

Connection point E-389056 N-410602

[illegible]

Overview map of worksite



Warning: PDF designed for A4 colour print only with no page scaling

WARNING! This area contains Gas Mains Operating at High Pressure (in excess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com

Cadent
Your Gas Network

Dig Sites

Area:

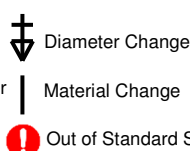
Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve
Depth of cover
Syphon



Diameter Change
Material Change
Out of Standard Service

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

- Identification of shallow services
 - Identification of dual services
 - Recording of non-perpendicular services
- A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

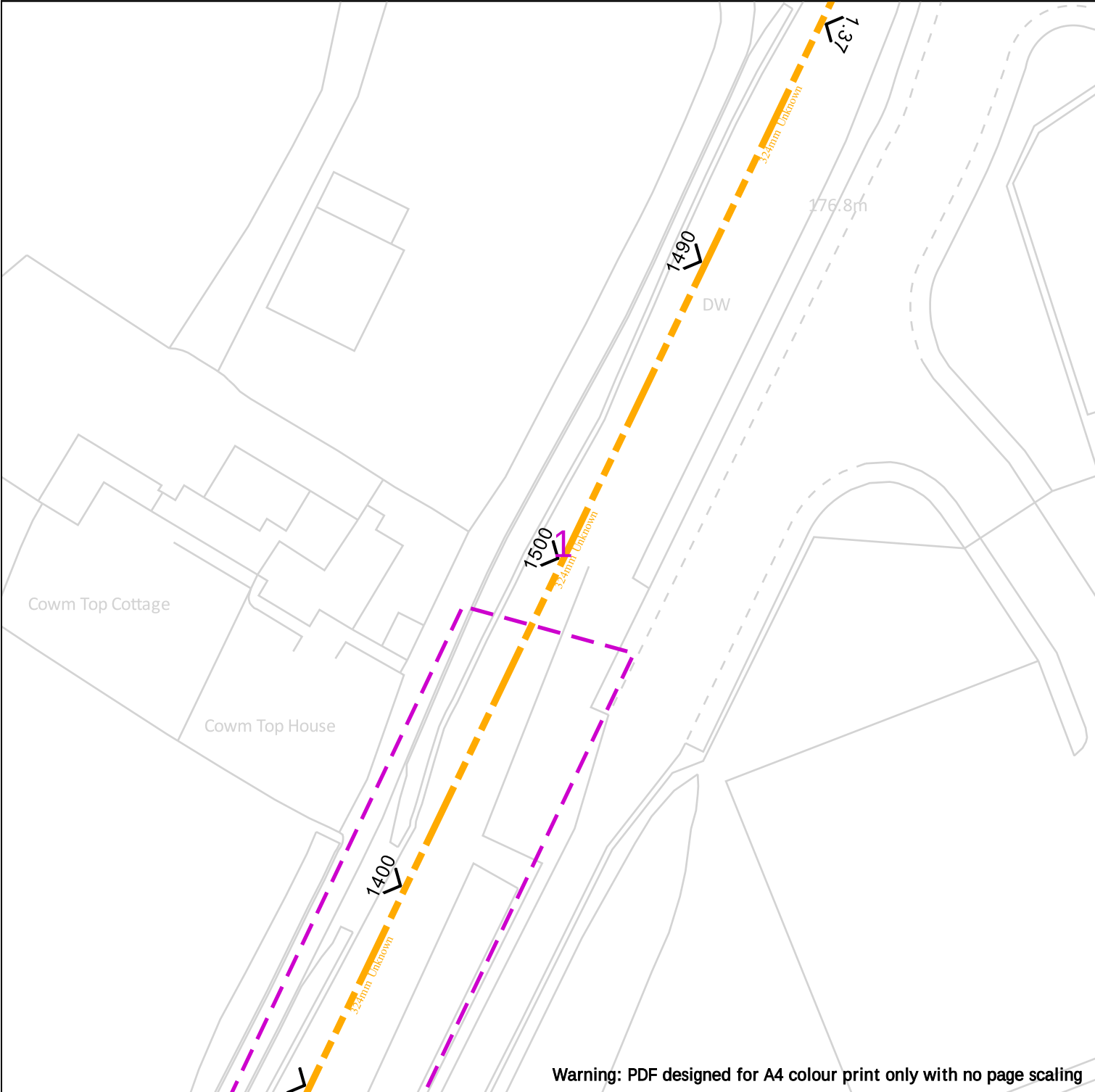
Scale: 1:4100 (When plotted at A4)

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

In case of emergency call - 0800 111 999

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WARNING! This area contains Gas Mains Operating at High Pressure (in excess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com



Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites

Area:

Line:

LP Mains

MP Mains

IP Mains

LHP Mains

Valve

Depth of cover

Syphon

Diameter Change

Material Change

Out of Standard Service

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

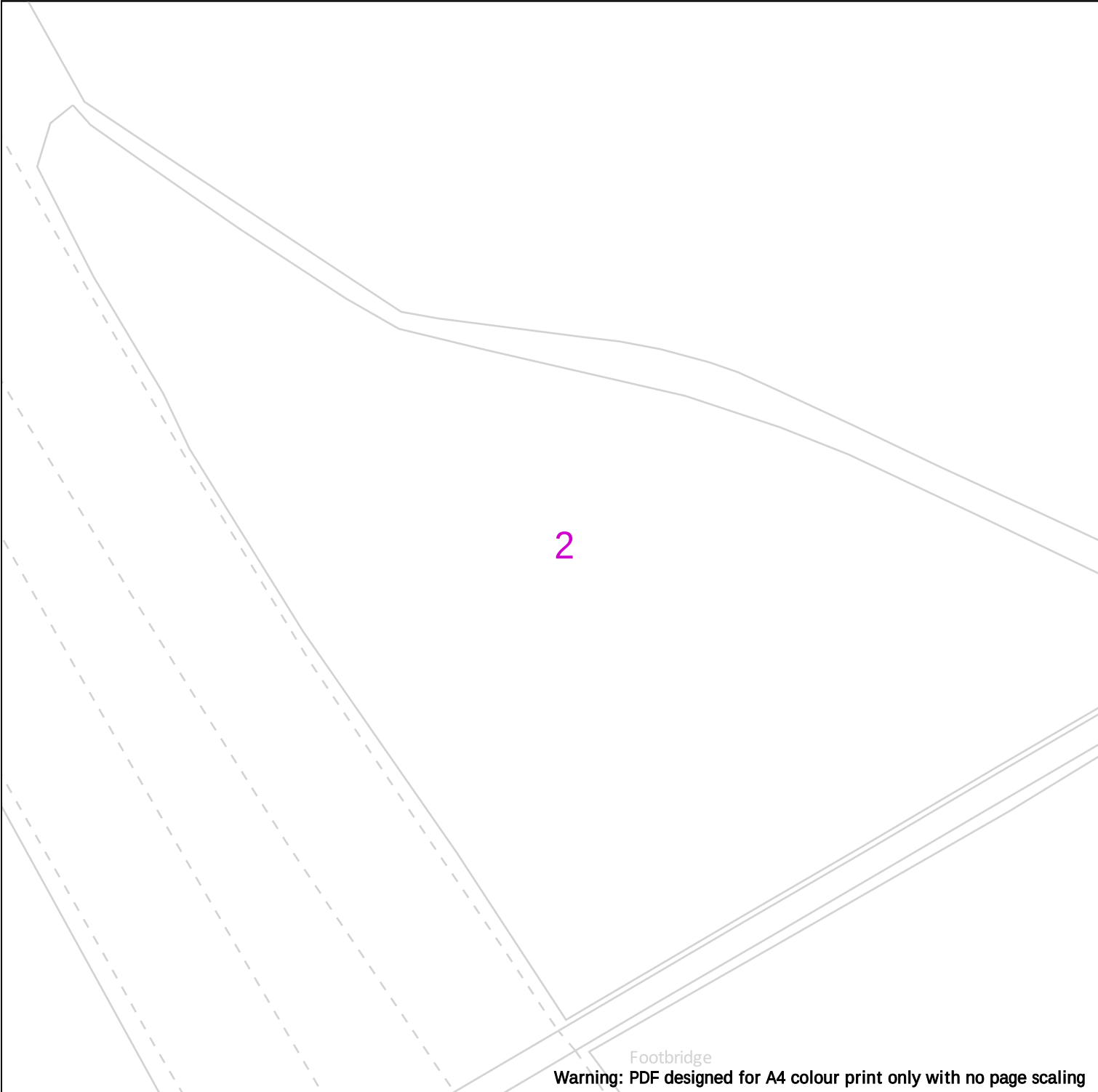
A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

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Footbridge
Warning: PDF designed for A4 colour print only with no page scaling

WARNING! This area contains Gas Mains Operating at High Pressure (in excess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com



Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)



Dig Sites	Area:	Line:	
	LP Mains		
	MP Mains		
	IP Mains		
	LHP Mains		

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

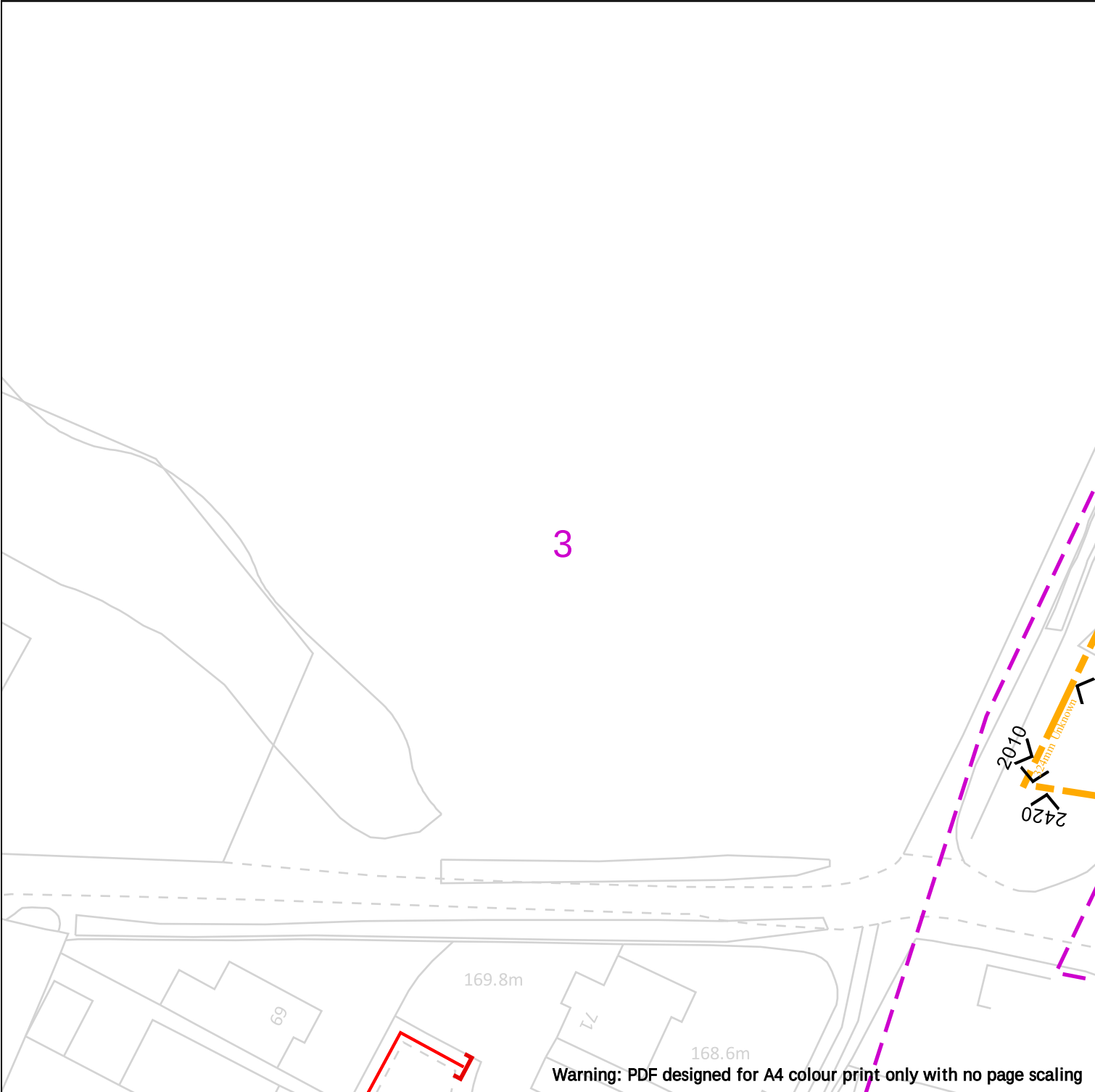
- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

In case of emergency call - 0800 111 999



Warning: PDF designed for A4 colour print only with no page scaling

WARNING! This area contains Gas Mains Operating at High Pressure (in excess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com



Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites	Area:	Line:	
	LP Mains		
	MP Mains		
	IP Mains		
	LHP Mains		

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

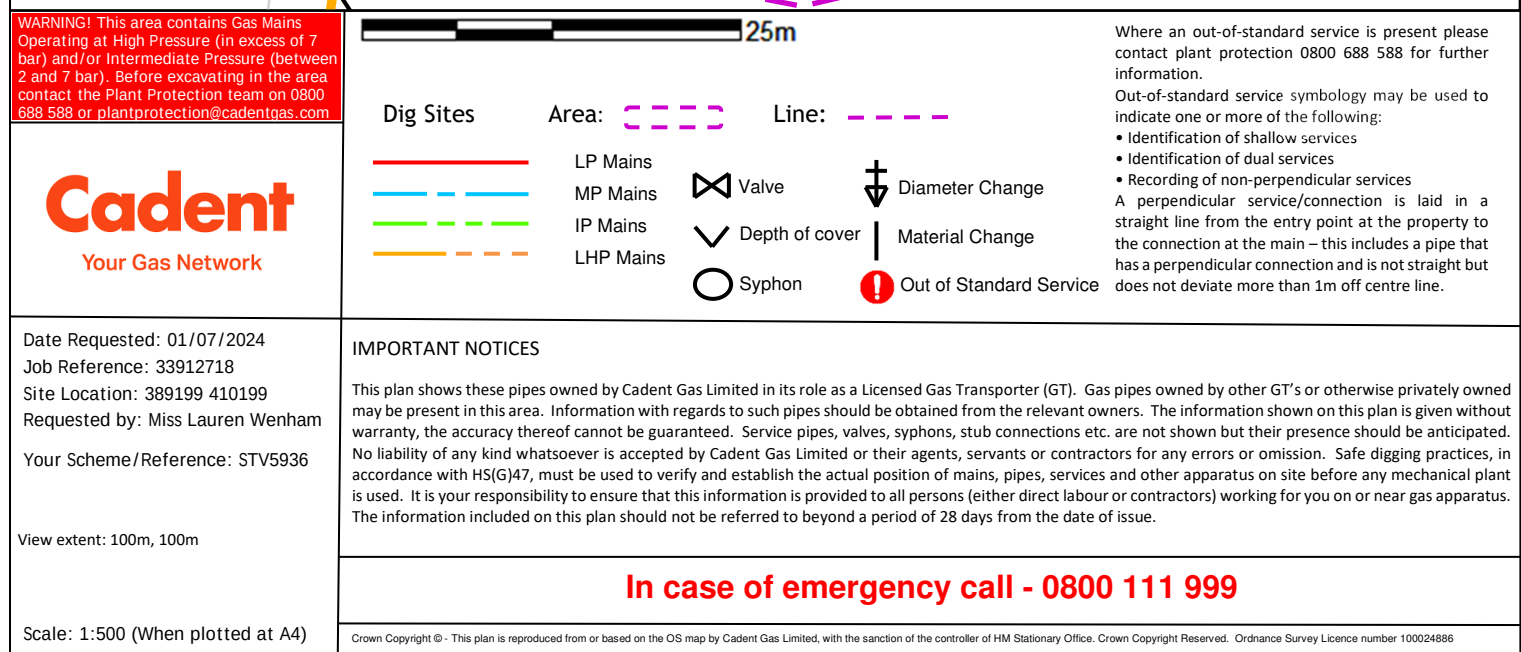
- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

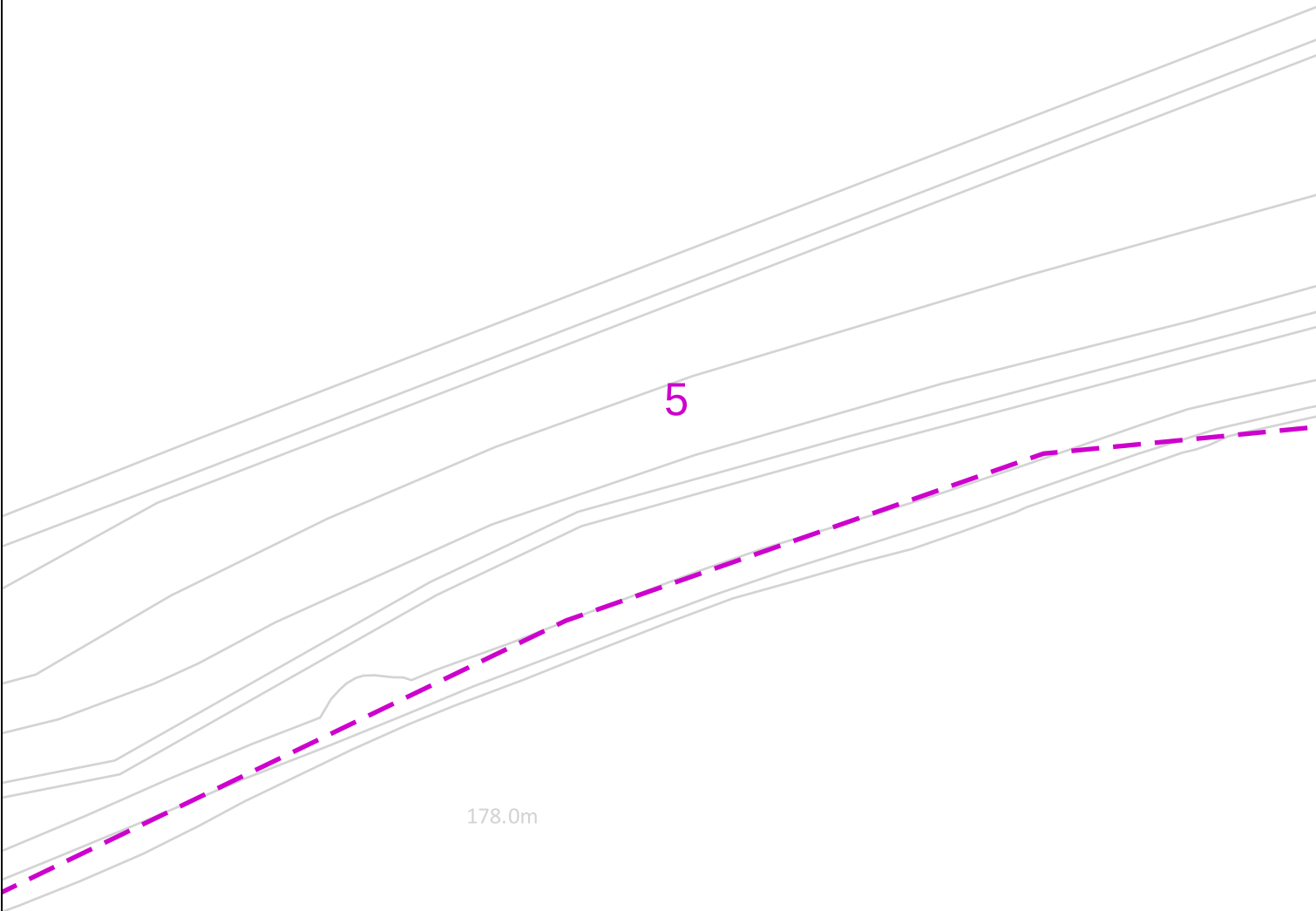
A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

IMPORTANT NOTICES

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In case of emergency call - 0800 111 999





Warning: PDF designed for A4 colour print only with no page scaling

WARNING! This area contains Gas Mains Operating at High Pressure (in excess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com



Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Diameter Change
	IP Mains	Depth of cover
	LHP Mains	Material Change
	Syphon	Out of Standard Service

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

A perpendicular service/connection is laid in a straight line from the entry point at the property to the connection at the main – this includes a pipe that has a perpendicular connection and is not straight but does not deviate more than 1m off centre line.

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

In case of emergency call - 0800 111 999



Warning: PDF designed for A4 colour print only with no page scaling

WARNING! This area contains Gas Mains Operating at High Pressure (in excess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before excavating in the area contact the Plant Protection team on 0800 688 588 or plantprotection@cadentgas.com



Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites

Area: Line:

	LP Mains		
	MP Mains		
	IP Mains		
	LHP Mains		

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

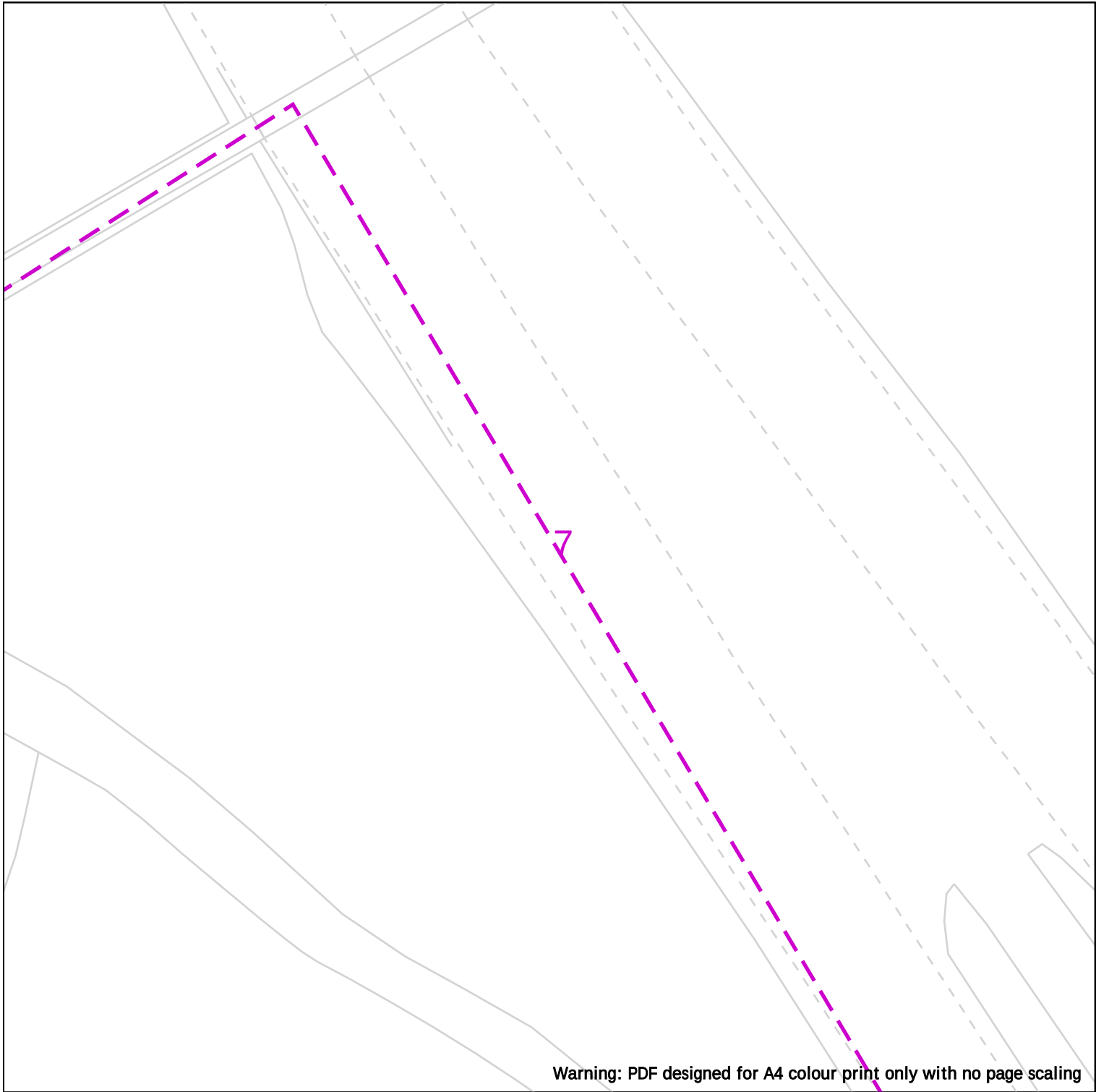
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IMPORTANT NOTICES

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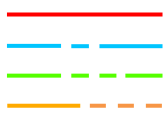


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 25m

Dig Sites



Area:



Line:



LP Mains

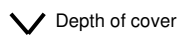
MP Mains

IP Mains

LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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Cadent
Your Gas Network

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

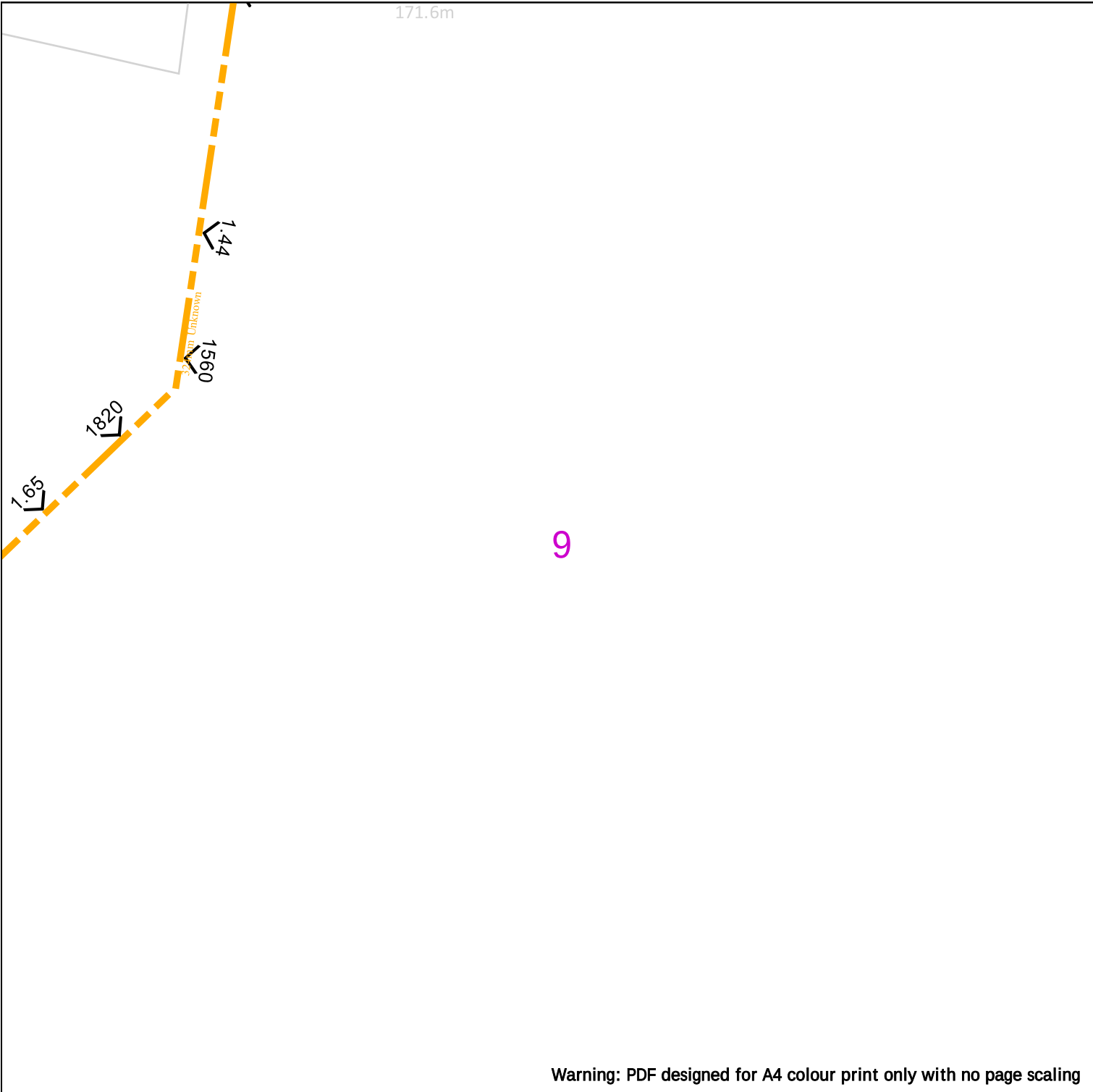
Scale: 1:500 (When plotted at A4)

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Dig Sites	Area:	Line:	
	LP Mains		
	MP Mains		
	IP Mains		
	LHP Mains		

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10

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Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



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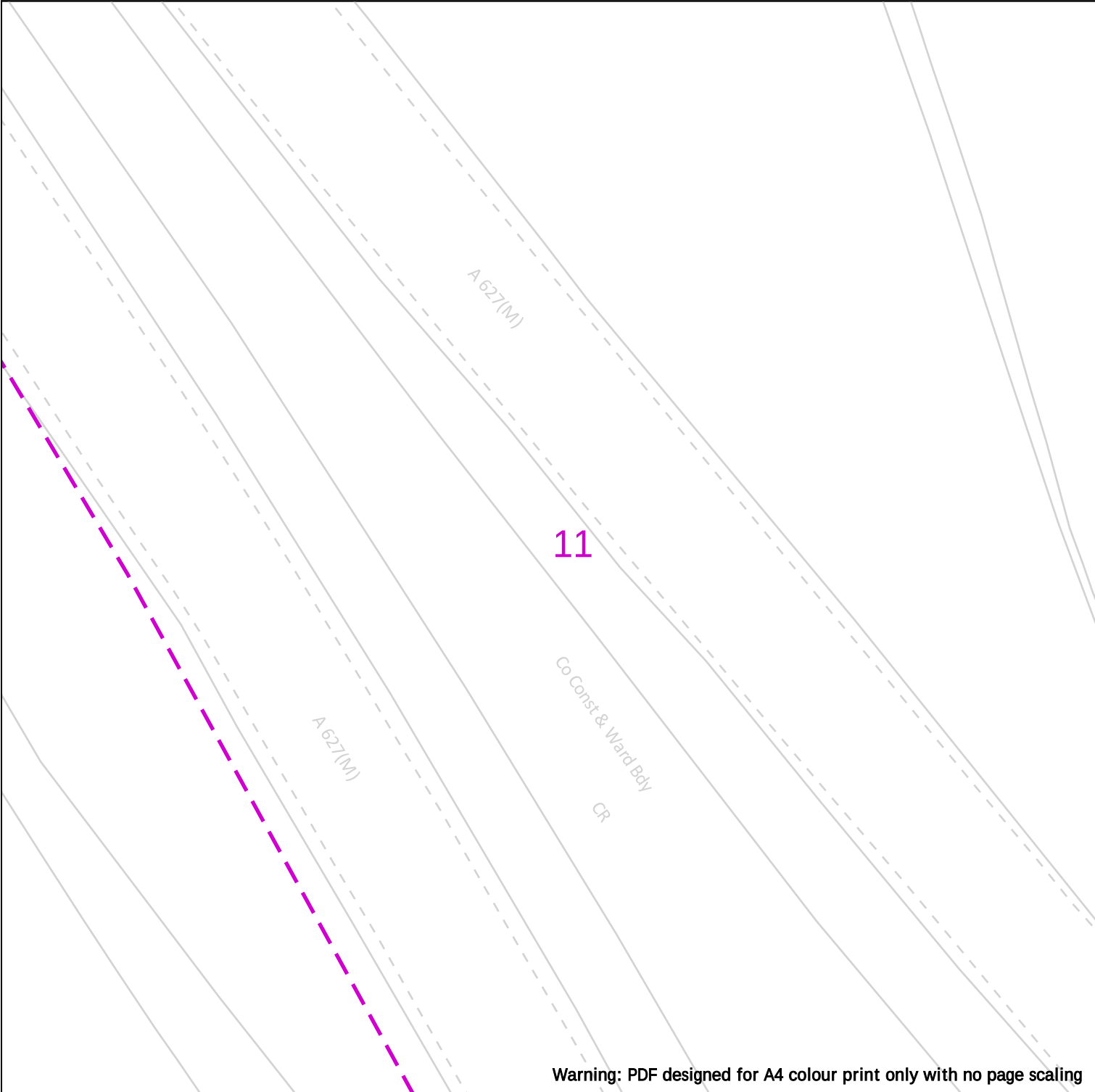
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Dig Sites	Area:	Line:	
	LP Mains		
	MP Mains		
	IP Mains		
	LHP Mains		

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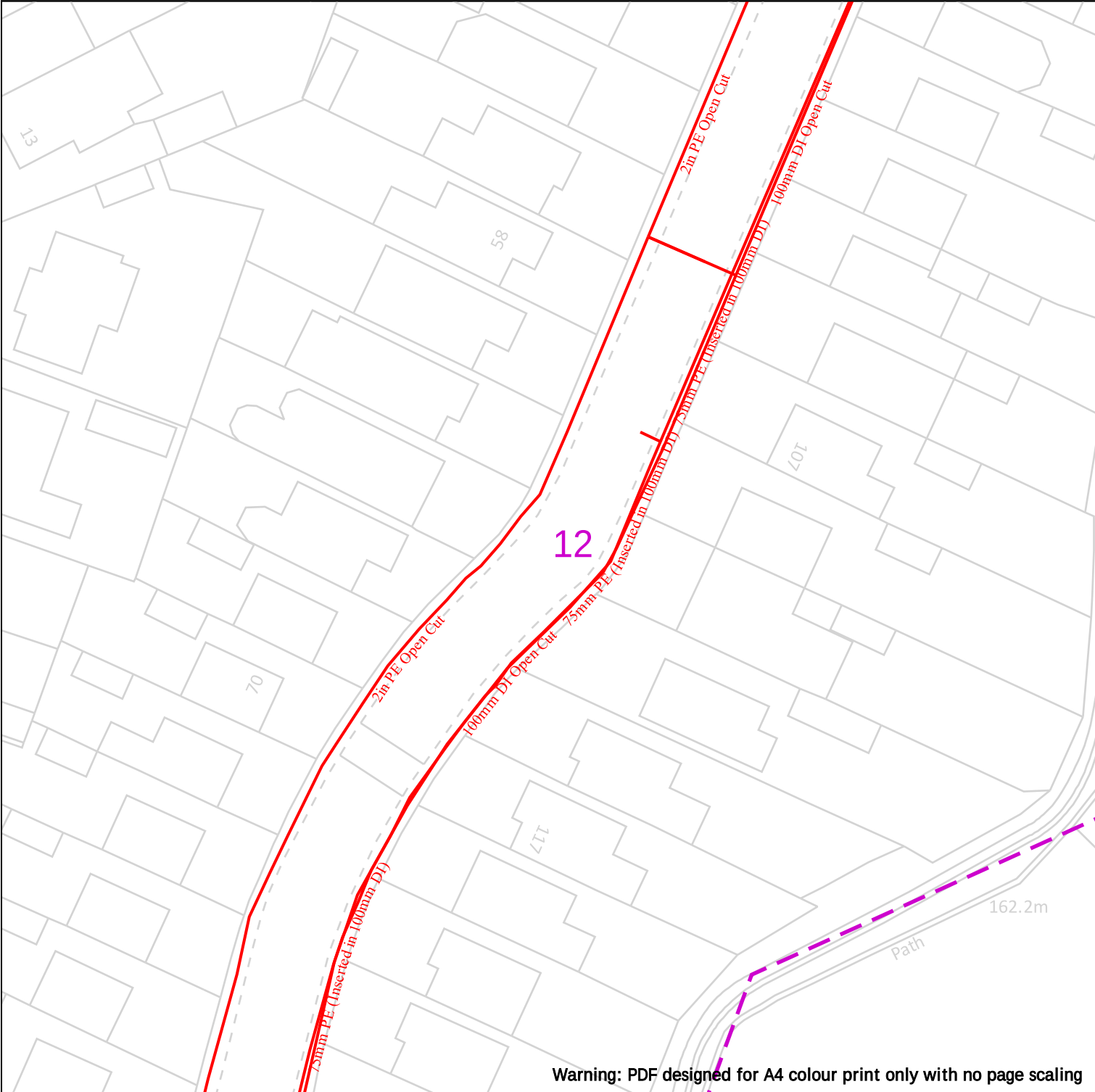
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Dig Sites

Area:

Line:

LP Mains

MP Mains

IP Mains

LHP Mains

Valve

Depth of cover

Syphon

Diameter Change

Material Change

Out of Standard Service

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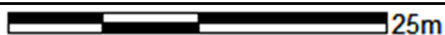
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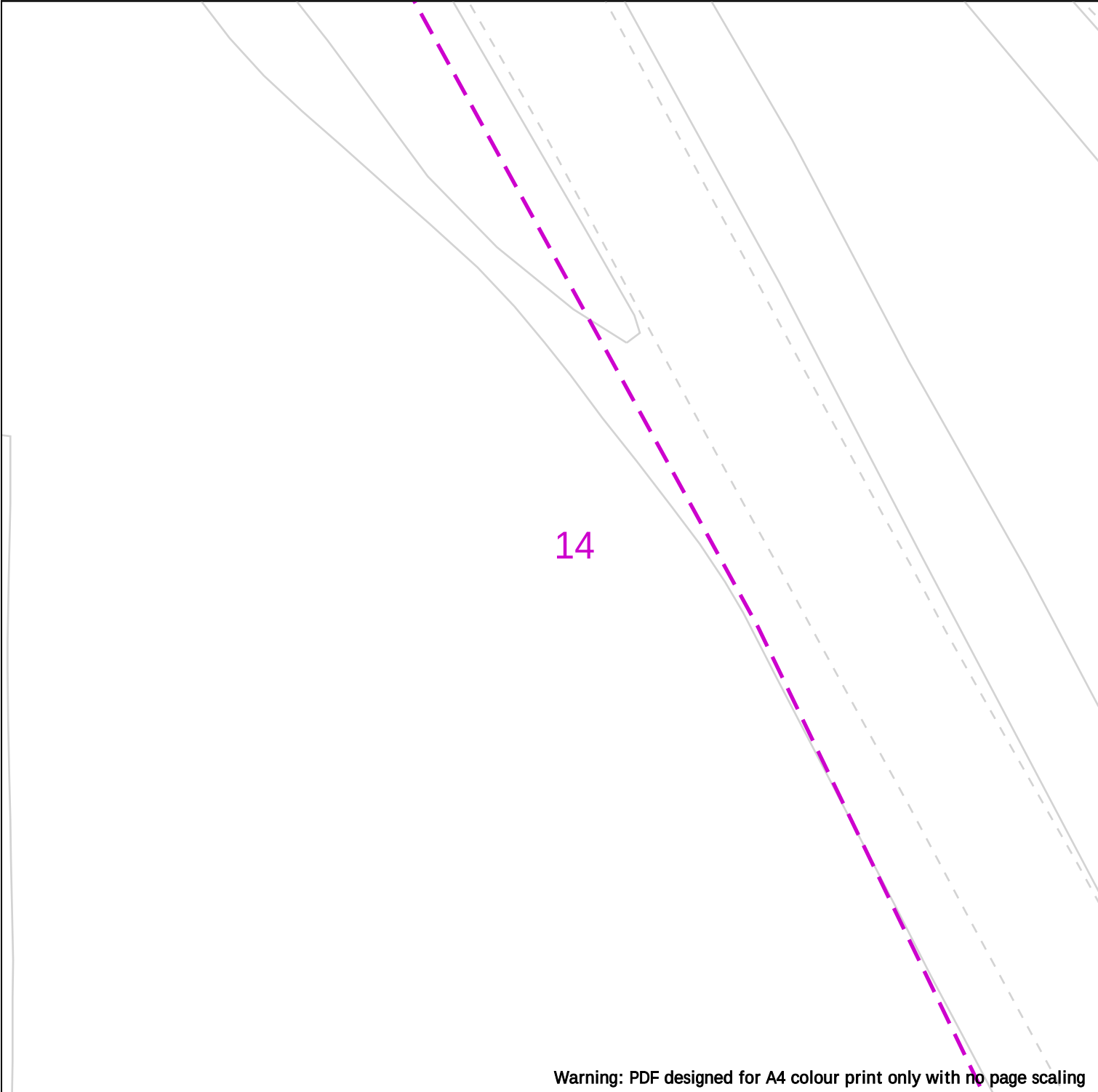


● Out of Standard Service

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Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Depth of cover
	IP Mains	Syphon
	LHP Mains	Diameter Change
		Material Change
		Out of Standard Service

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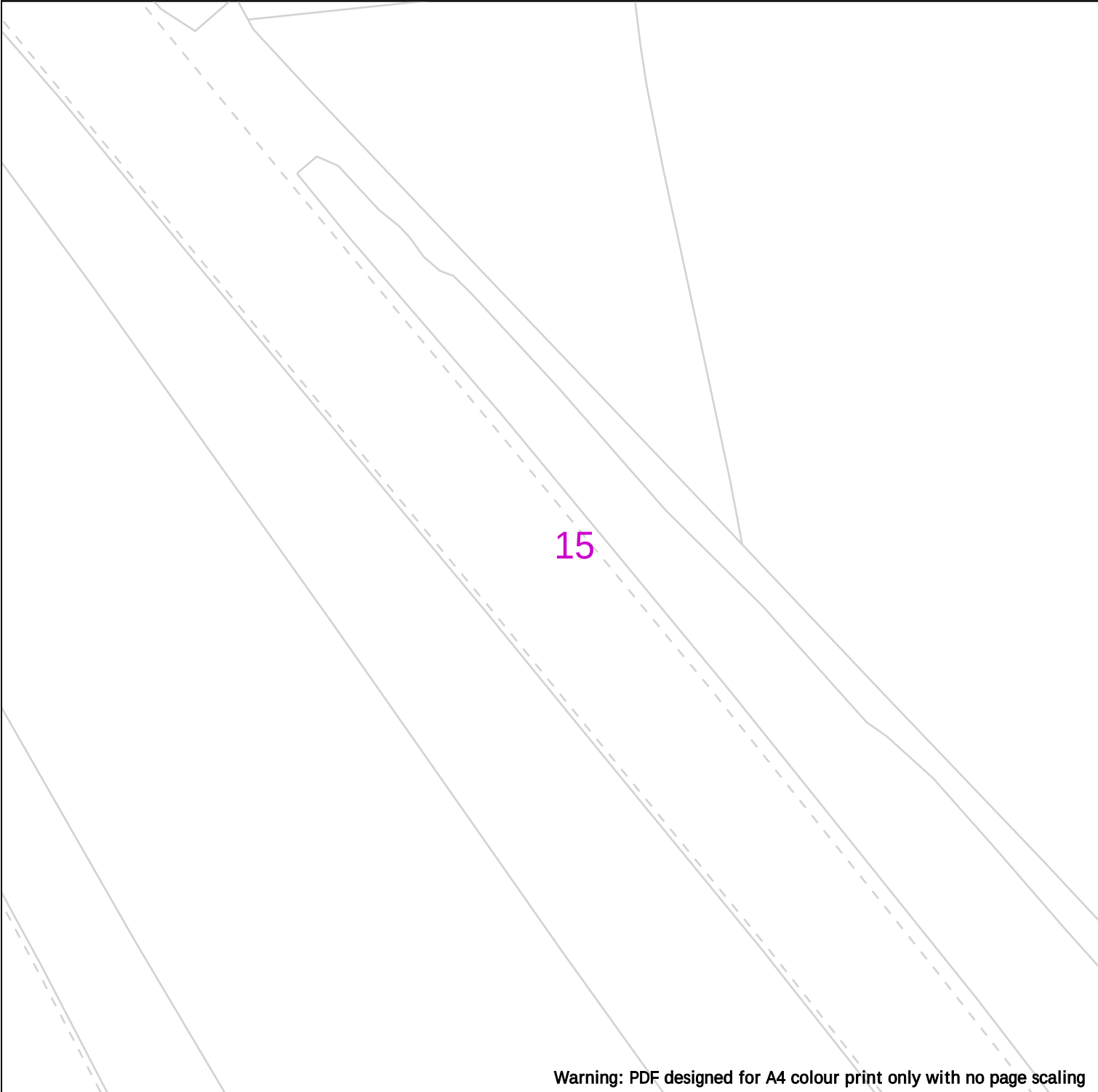
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Dig Sites	Area:	Line:	
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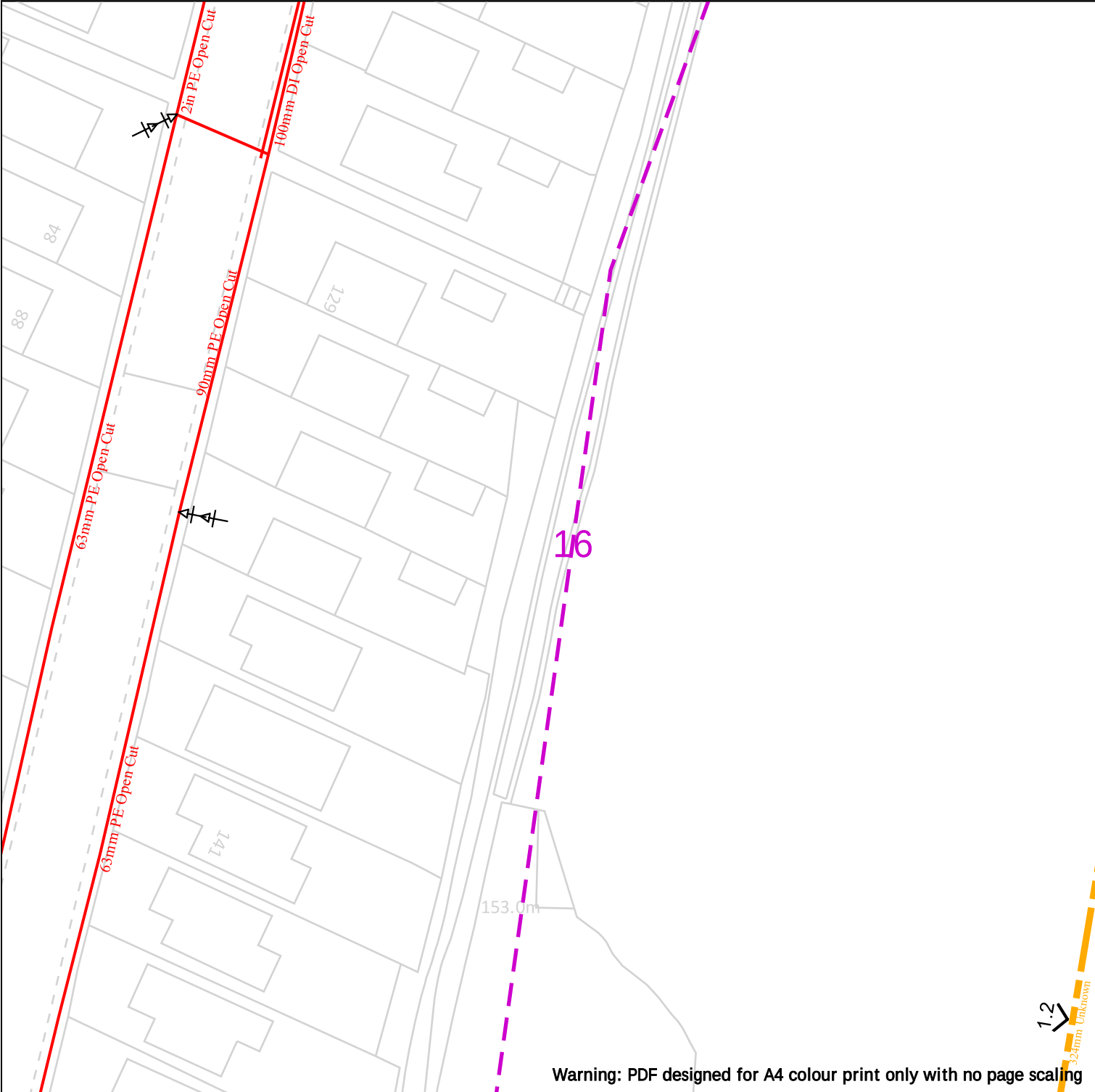
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Dig Sites	Area:
	LP Mains
	MP Mains
	IP Mains
	LHP Mains
	Valve
	Depth of cover
	Syphon
	Diameter Change
	Material Change
	Out of Standard Service

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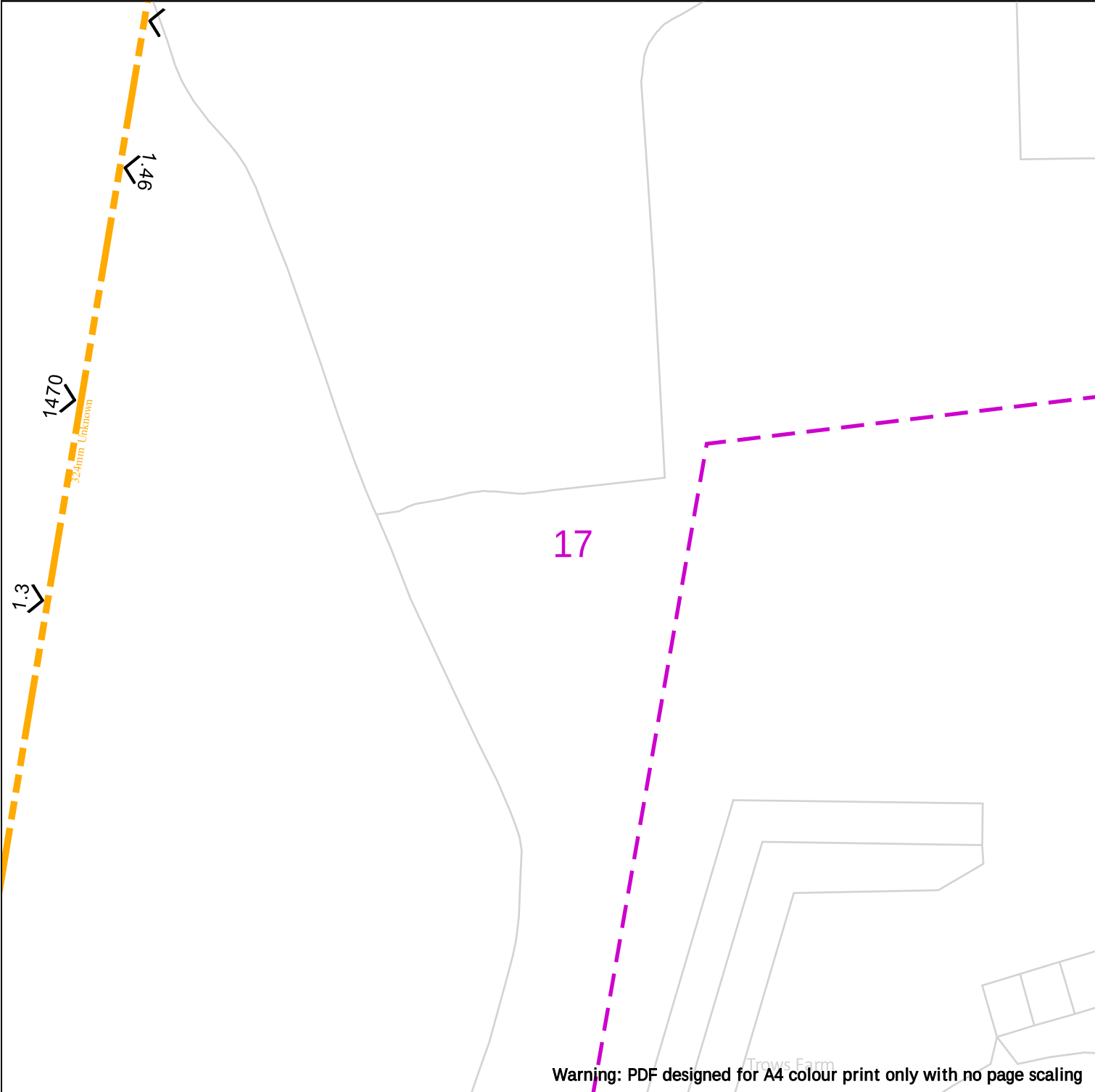
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Dig Sites	Area:	Line:
LP Mains	Valve	Diameter Change
MP Mains	Depth of cover	Material Change
IP Mains	Syphon	Out of Standard Service
LHP Mains		

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 25m



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View extent: 100m, 100m

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Dig Sites	Area: 	Line: 	
	LP Mains	 Valve	 Diameter Change
	MP Mains	 Depth of cover	 Material Change
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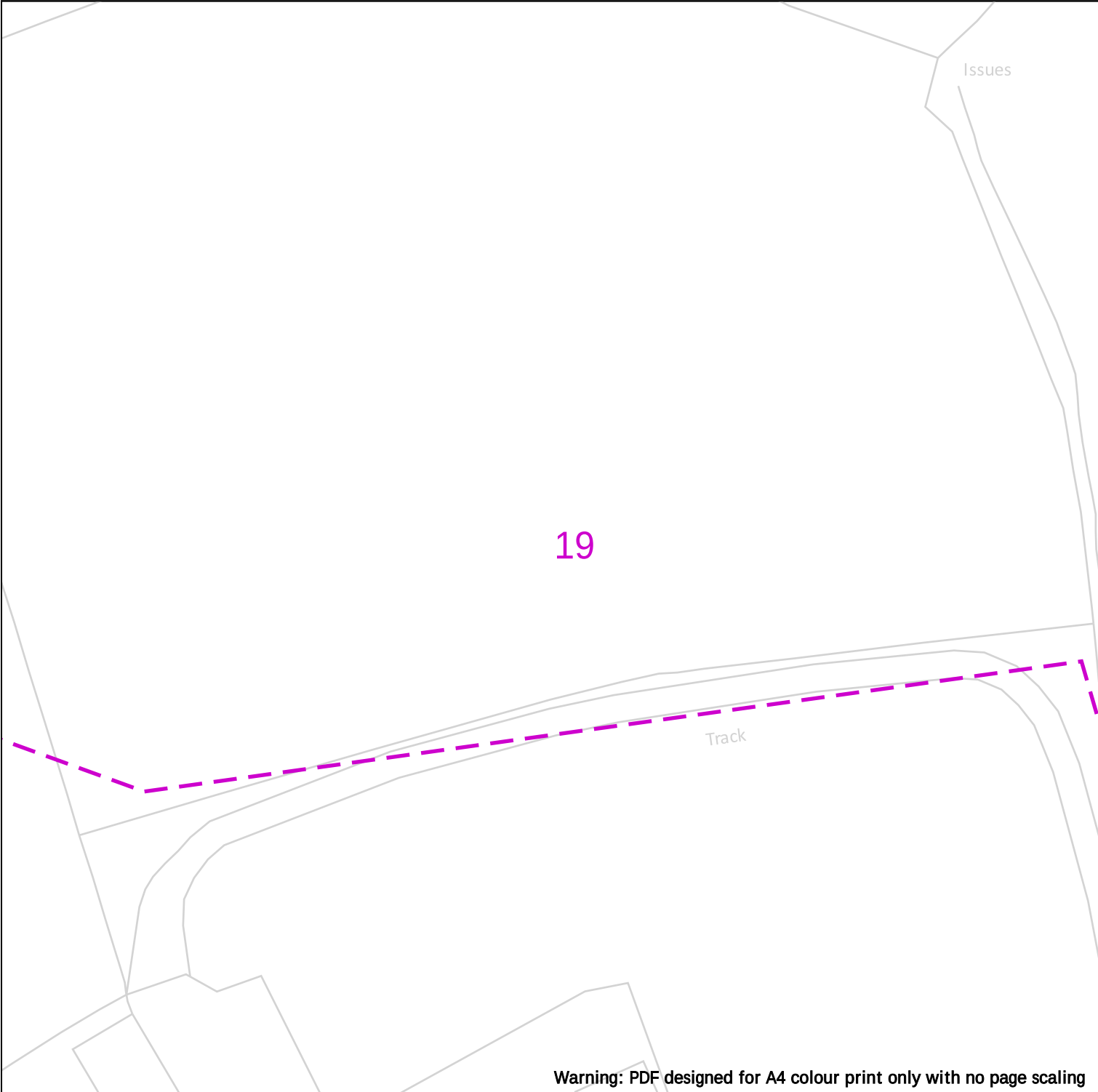
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Dig Sites	Area:	Line:	
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	IP Mains		
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	Depth of cover		Material Change
	Syphon		Out of Standard Service

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Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)



Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Where an out-of-standard service is present please contact plant protection 0800 688 588 for further information.

Out-of-standard service symbology may be used to indicate one or more of the following:

- Identification of shallow services
- Identification of dual services
- Recording of non-perpendicular services

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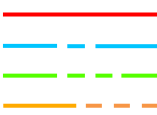
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Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve

Depth of cover

Syphon



Diameter Change



Material Change



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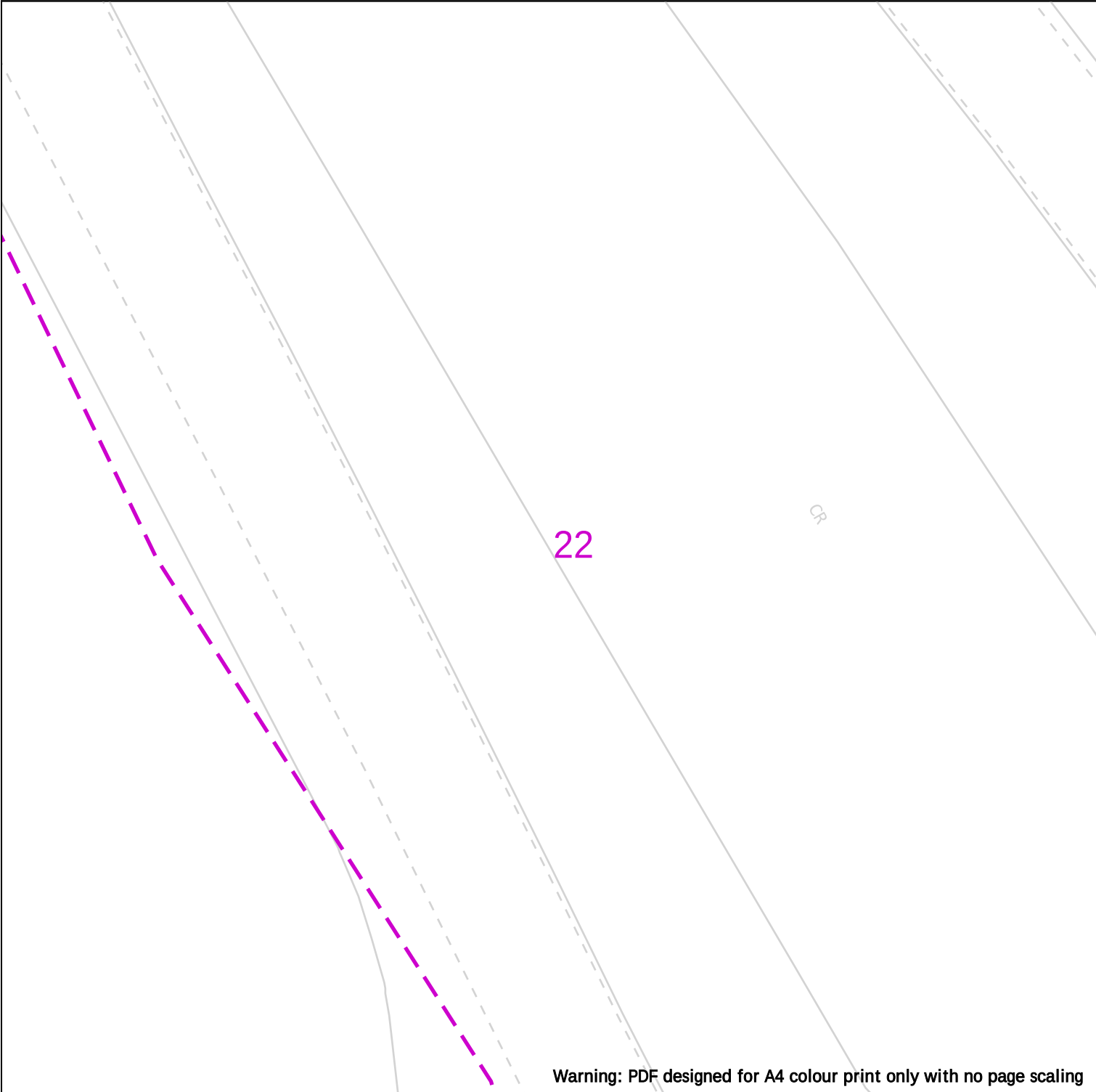
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View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

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Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)



Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Diameter Change
	IP Mains	Depth of cover
	LHP Mains	Material Change
	Syphon	Out of Standard Service

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Out-of-standard service symbology may be used to indicate one or more of the following:

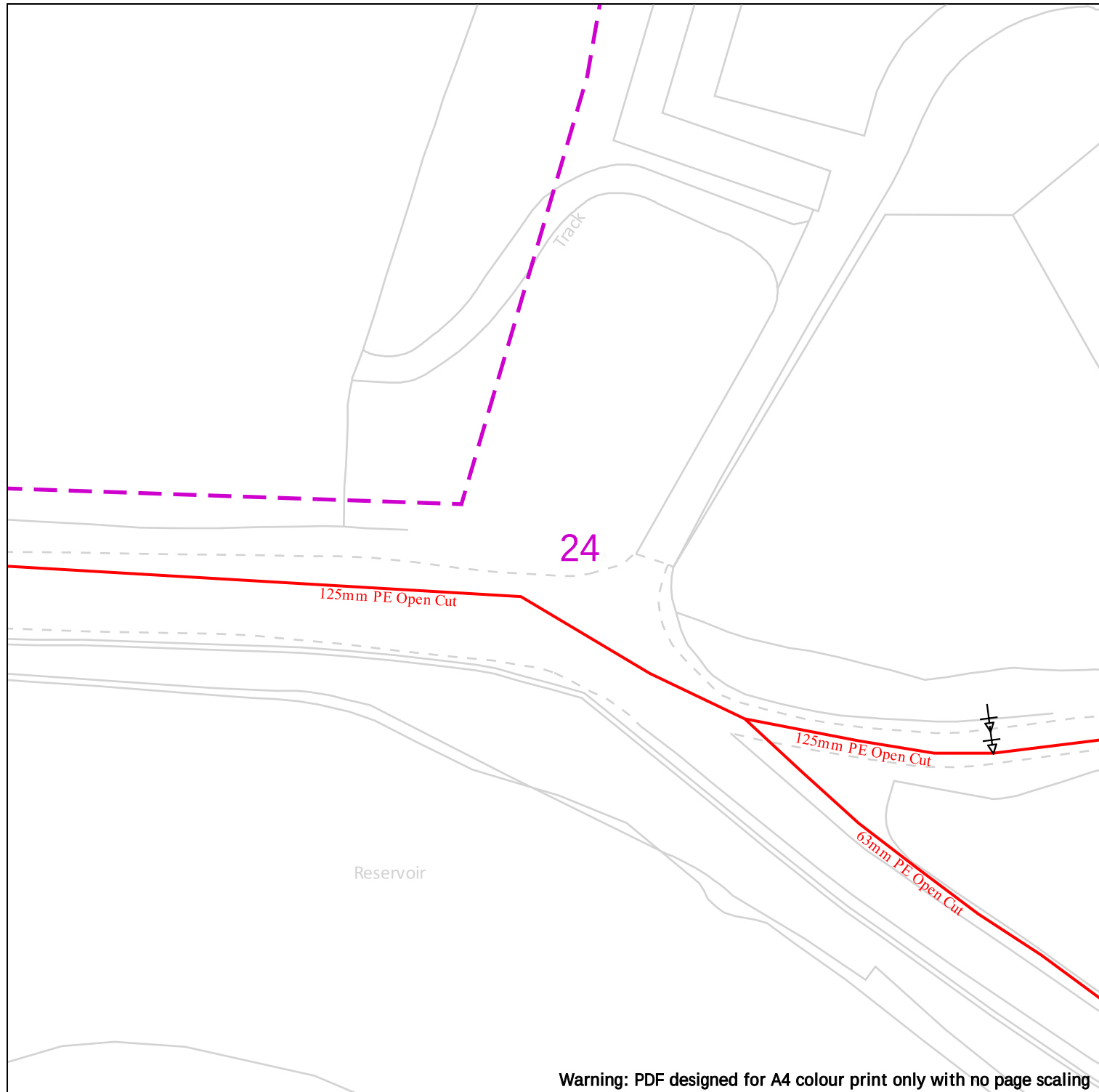
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Cadent
Your Gas Network

25m

Dig Sites

Area:

Line:



LP Mains

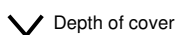
MP Mains

IP Mains

LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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Requested by: Miss Lauren Wenham
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IMPORTANT NOTICES

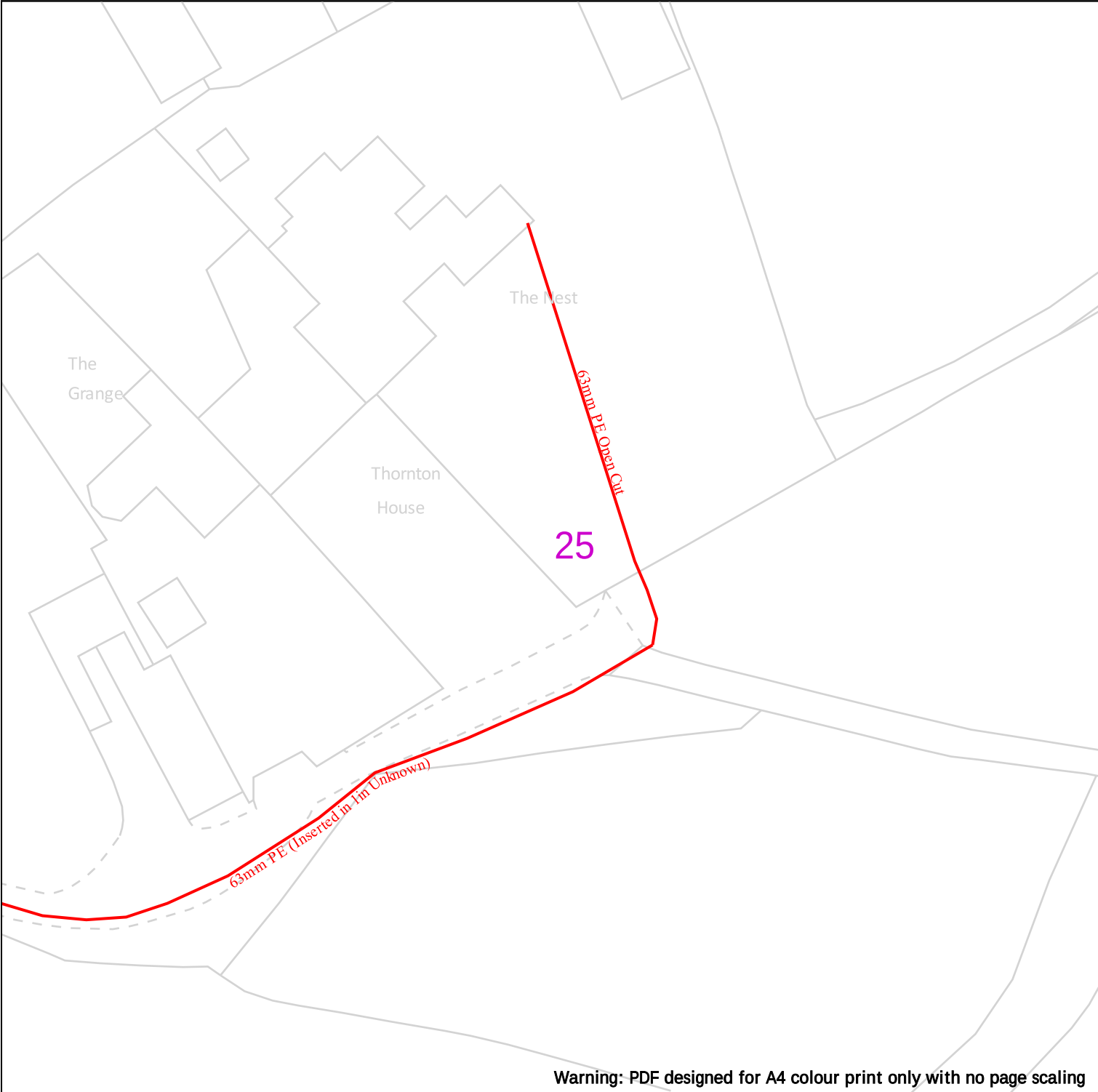
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View extent: 100m, 100m

In case of emergency call - 0800 111 999

Scale: 1:500 (When plotted at A4)

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25m

Cadent
Your Gas Network

Dig Sites

Area:

Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve

Depth of cover

Syphon



Diameter Change



Material Change



Out of Standard Service

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IMPORTANT NOTICES

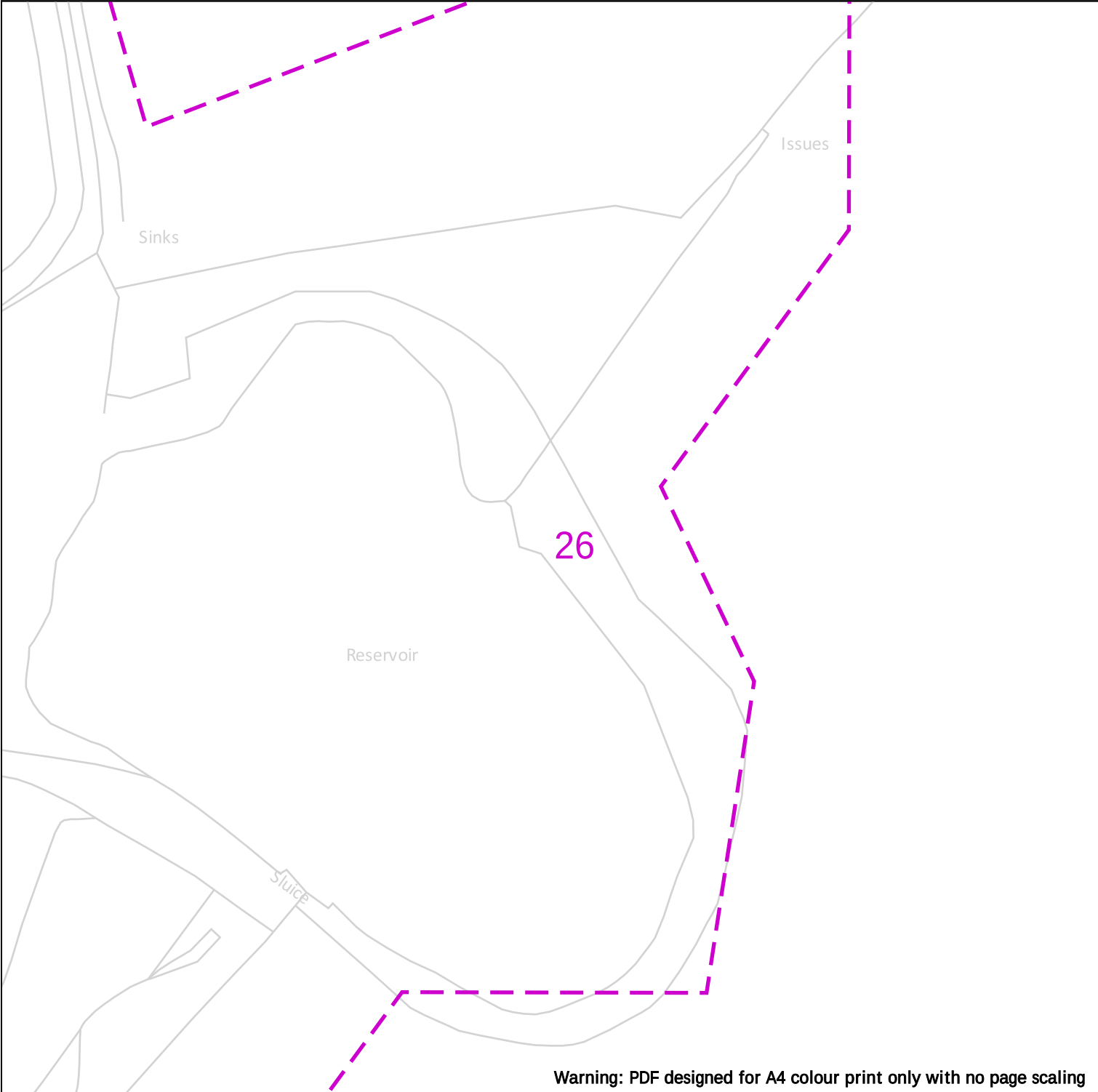
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View extent: 100m, 100m

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Dig Sites	Area:	Line:
	LP Mains	
	MP Mains	 Valve
	IP Mains	 Depth of cover
	LHP Mains	 Material Change
		 Syphon
		 Out of Standard Service

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Dig Sites	Area:	Line:		
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	MP Mains			Diameter Change
	IP Mains			Material Change
	LHP Mains			Out of Standard Service

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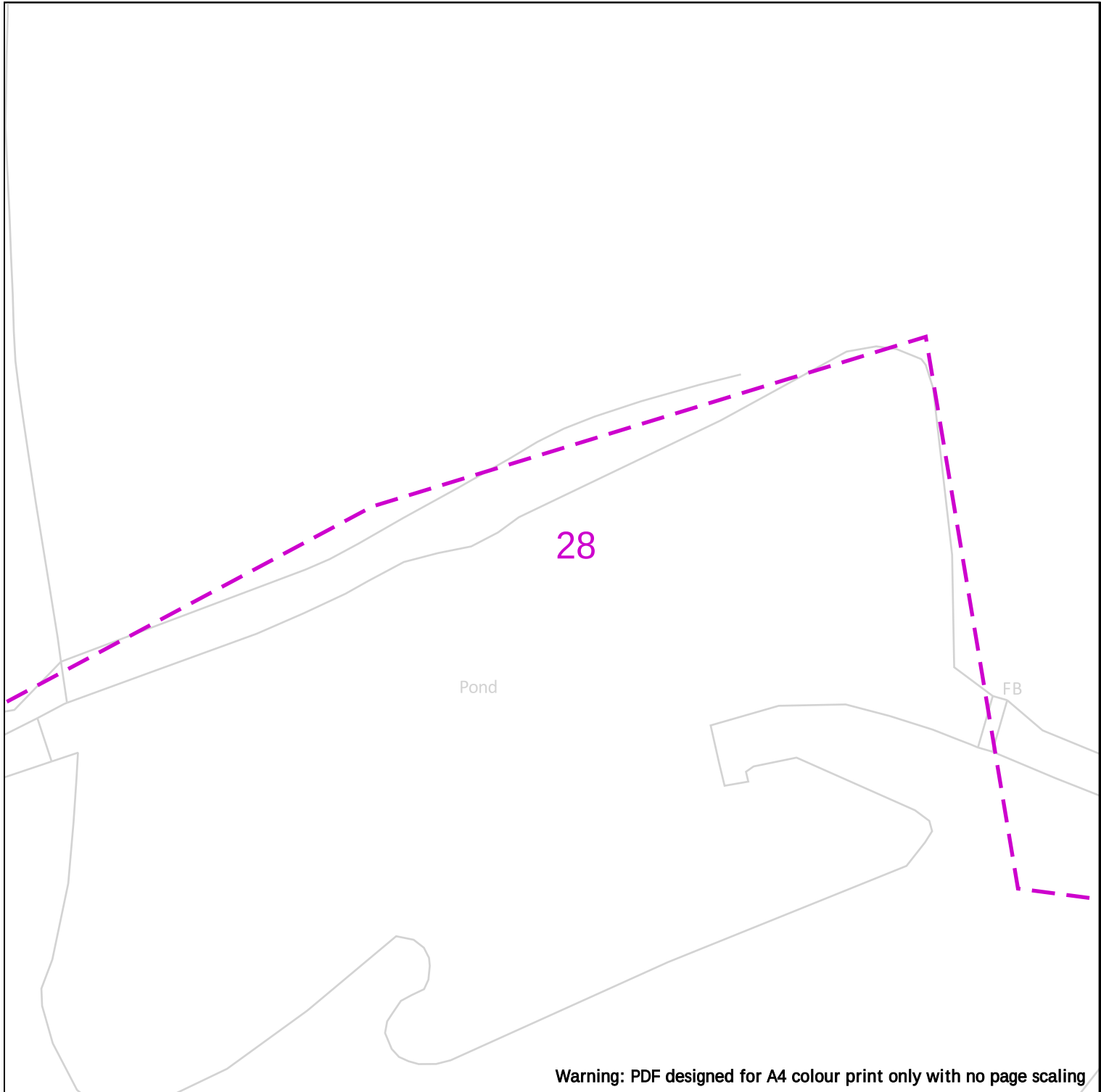
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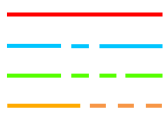
Cadent
Your Gas Network

25m

Dig Sites

Area:

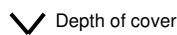
Line:



LP Mains
MP Mains
IP Mains
LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



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View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

Dig Sites

Area:

Line:

LP Mains

MP Mains

IP Mains

LHP Mains

Valve

Depth of cover

Syphon

Diameter Change

Material Change

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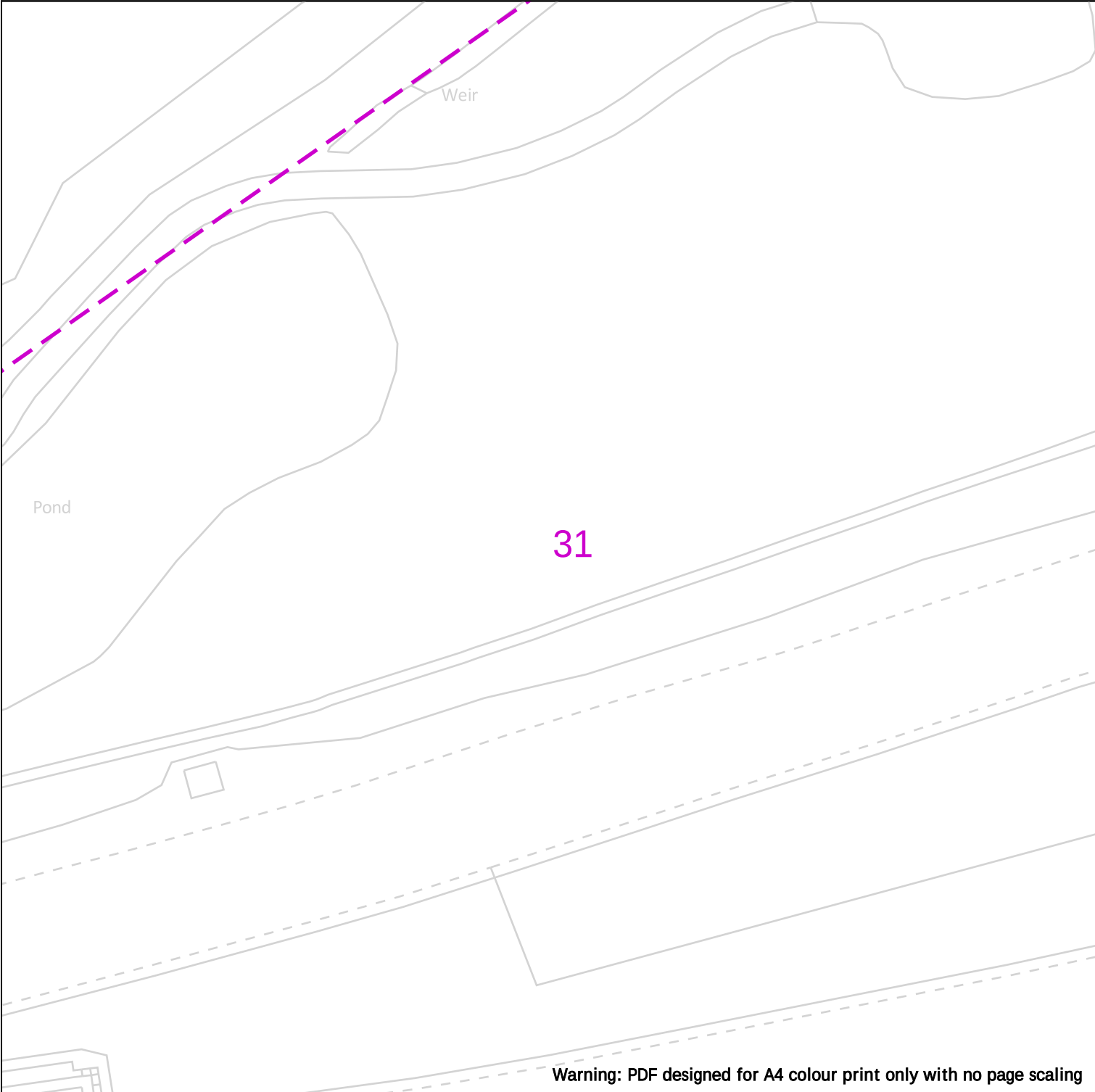
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Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)



Dig Sites	Area:	Line:
	LP Mains	Valve
	MP Mains	Diameter Change
	IP Mains	Depth of cover
	LHP Mains	Material Change
	Syphon	Out of Standard Service

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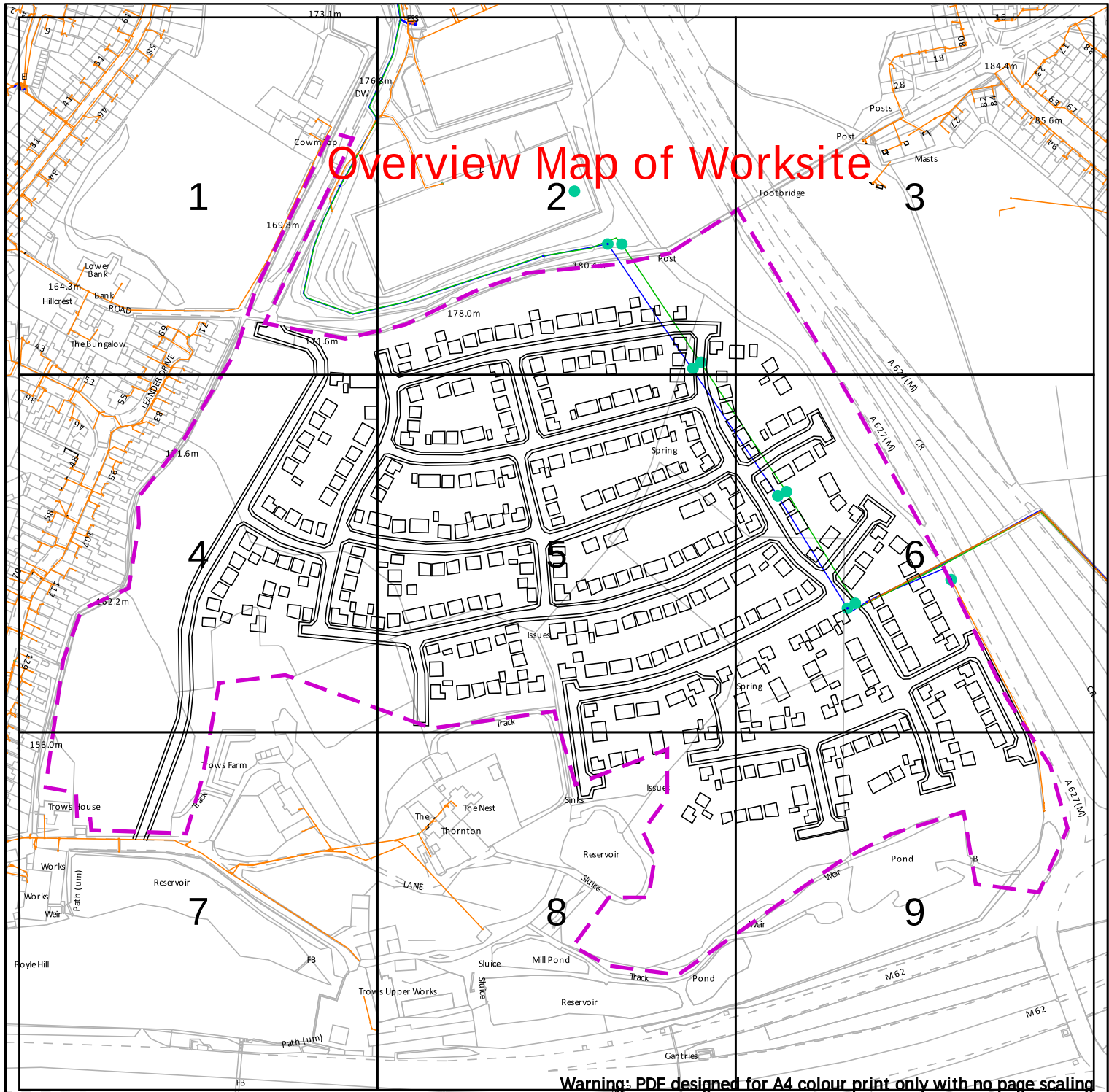
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In case of emergency call - 0800 111 999

Overview Map of Worksite



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Electricity North West
Borron Street
Portwood, Stockport
Cheshire, SK1 2 JD
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Operating Voltage

132kV
33kV
22kV-25kV
11kV
6kV-6.6kV
1kV-6kV
LV

Unknown Voltage

Colour Code

Black
Green
Yellow
Red
Blue
Violet
Orange
Brown

Line Colour



In an emergency call 105,
24 hours a day

Dig Sites

Line: ---

Area: []

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

Scale: 1:3844 (When plotted at A4)

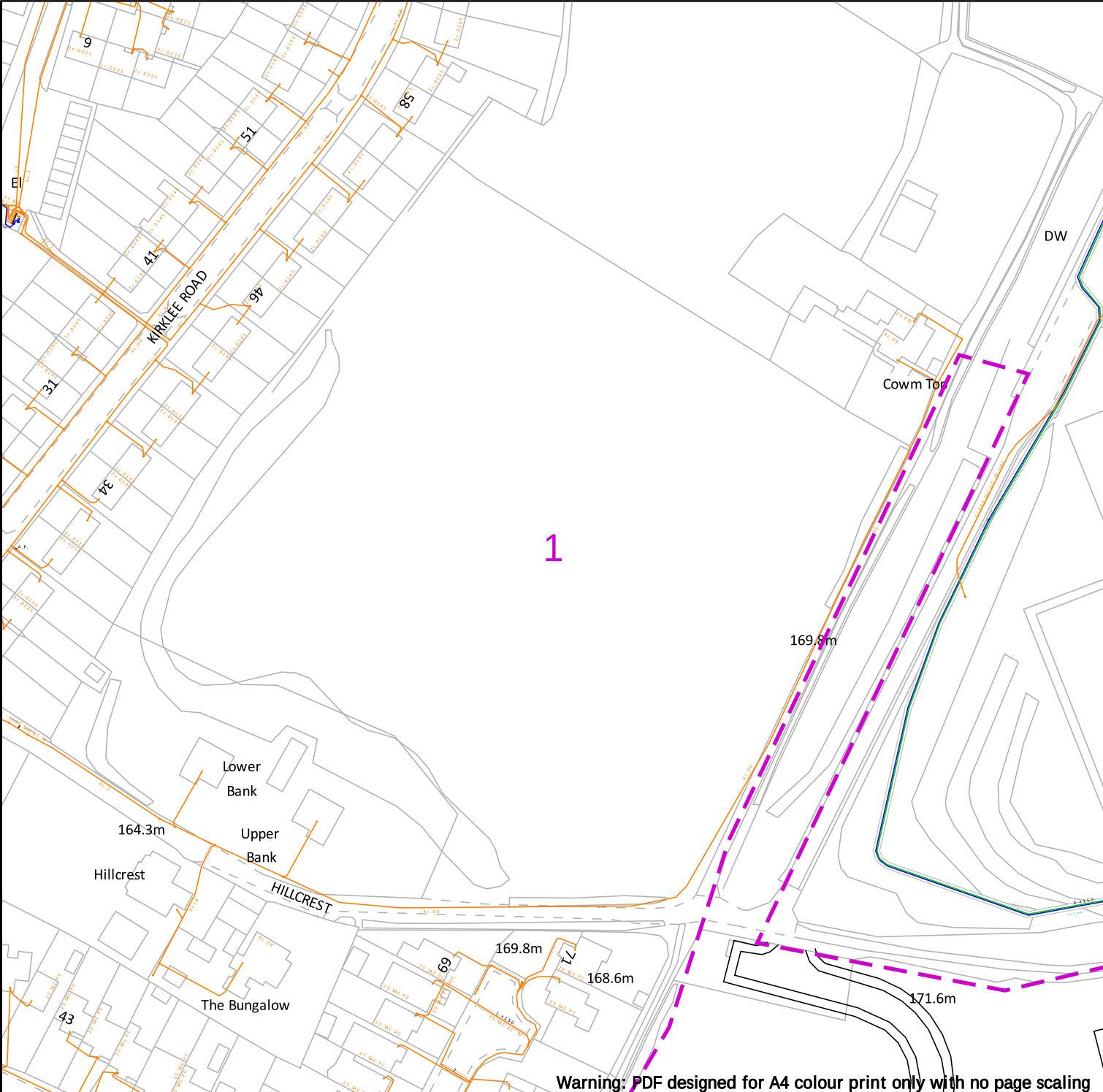
IMPORTANT INFO

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

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

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Bringing energy to your door

Electricity North West
Borron Street
Portwood, Stockport
Cheshire, SK1 2 JD
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

Scale: 1:1250 (When plotted at A4)

Operating Voltage	Colour Code	Line Colour	In an emergency call 105, 24 hours a day	Dig Sites
132kV	Black			Line: 
33kV	Green			Area: 
22kV-25kV	Yellow			
11kV	Red			
6kV-6.6kV	Blue			
1kV-6kV	Violet			
LV	Orange			
Unknown Voltage	Brown			

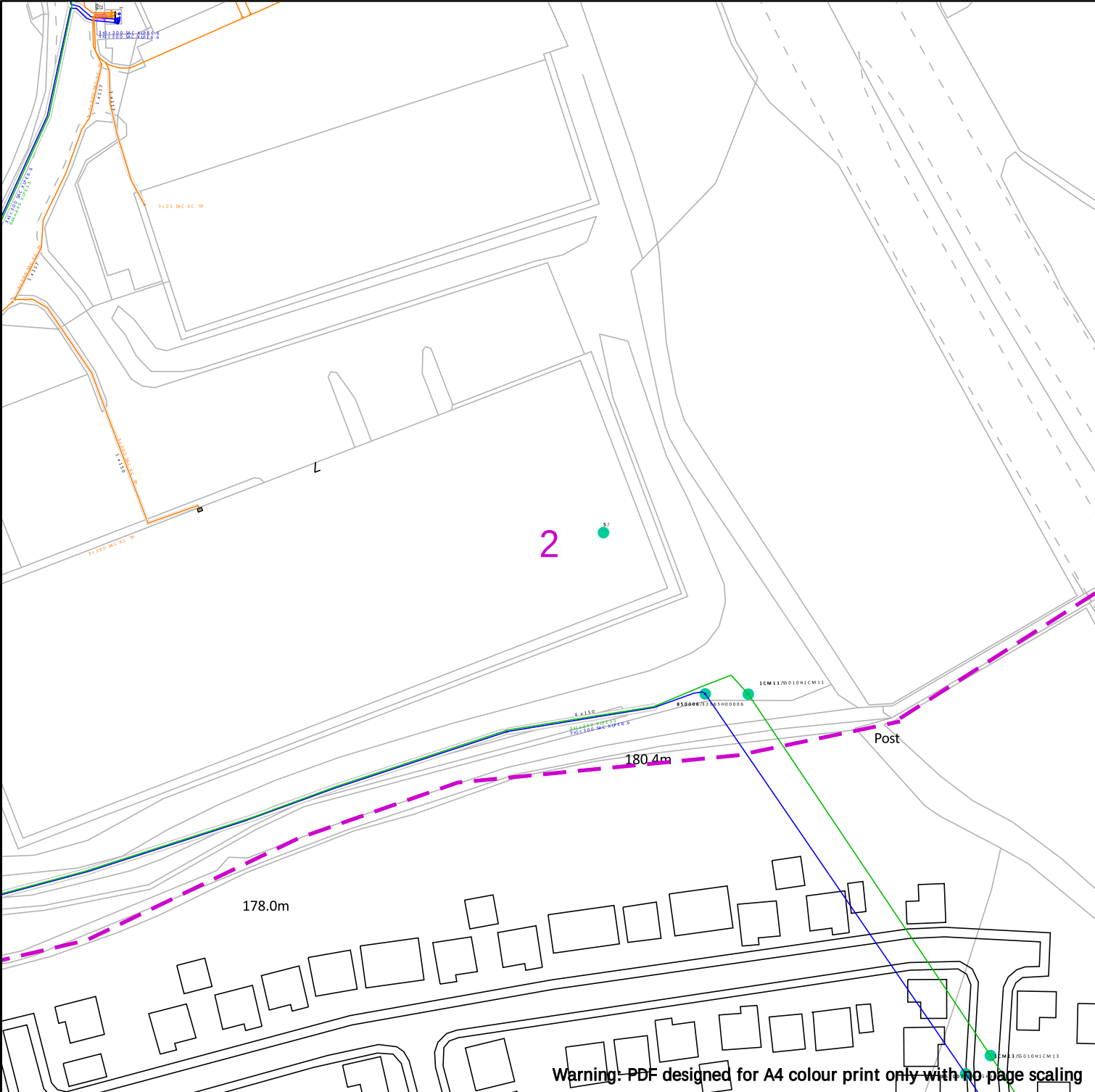
IMPORTANT INFO

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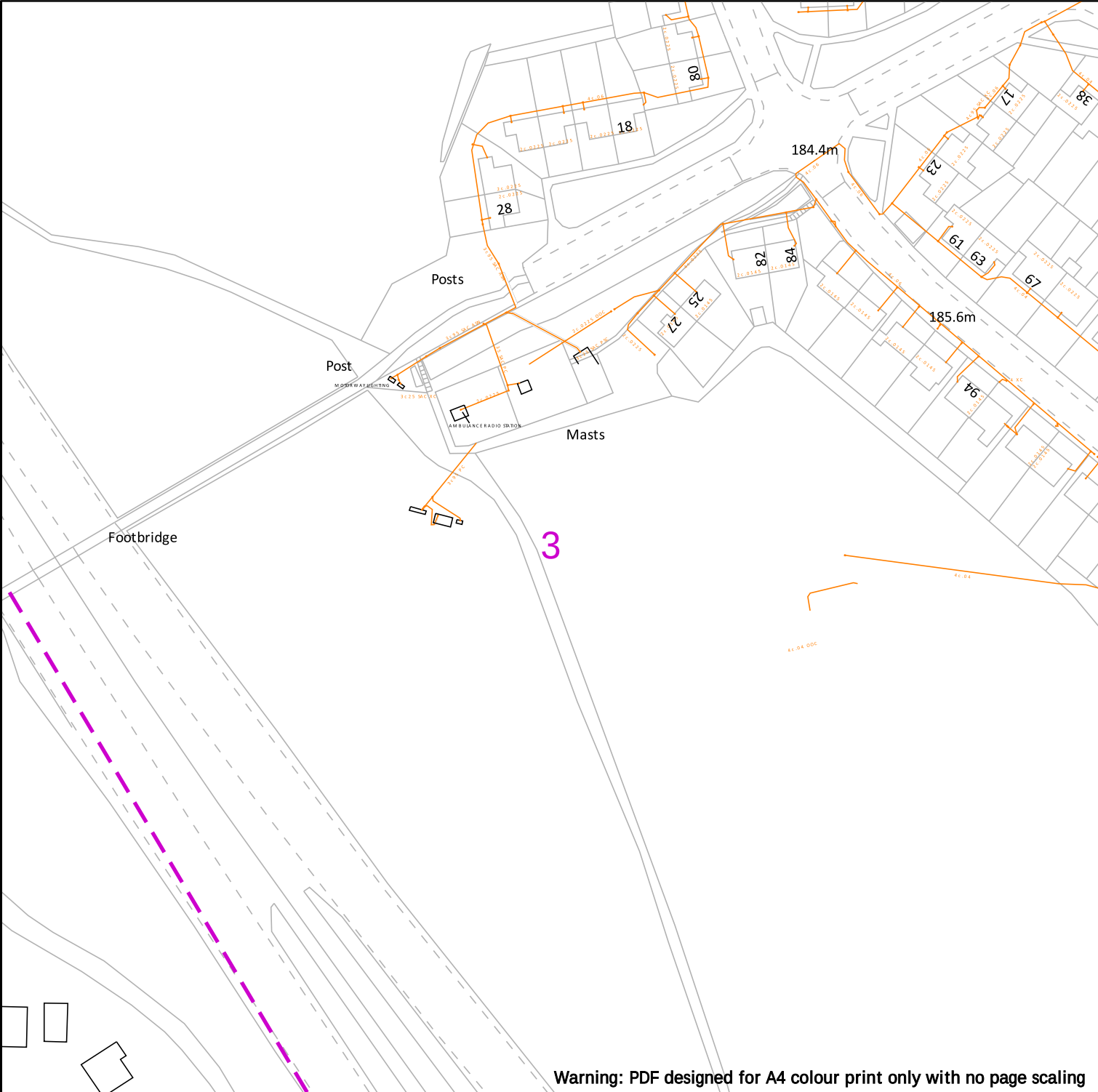
Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoiding Danger from Overhead Power Lines".

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electricity north west Bringing energy to your door Electricity North West Borron Street Portwood, Stockport Cheshire, SK1 2 JD Phone: 0800 195 4141 Email: planrequest@enwl.co.uk Date Requested: 01/07/2024 Job Reference: 33912718 Site Location: 389199 410199 Requested by: Miss Lauren Wenham Your Scheme/Reference: STV5936 Scale: 1:1250 (When plotted at A4)	Operating Voltage 132kV 33kV 22kV-25kV 11kV 6kV-6.6kV 1kV-6kV LV Unknown Voltage Colour Code Black Green Yellow Red Blue Violet Orange Brown Line Colour In an emergency call 105, 24 hours a day Dig Sites Line: Area:				
	IMPORTANT INFO Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited. Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoiding Danger from Overhead Power Lines". Electricity North West Limited, Borron Street, Portwood, Stockport, Cheshire, SK1 2JD Registered in England and Wales. Registered No 02366949 Reproduced from or based upon Ordnance Survey's map with the permission of His Majesty's Stationary Office. Crown Copyright Reserved. LICENCE No. 100017892. Unauthorised reproduction may lead to Prosecution or Civil Proceedings.				



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Bringing energy to your door

Electricity North West
Borron Street
Portwood, Stockport
Cheshire, SK1 2 JD
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk

Date Requested: 01/07/2024
Job Reference: 33912718
Site Location: 389199 410199
Requested by: Miss Lauren Wenham
Your Scheme/Reference: STV5936

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

IMPORTANT INFO

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Scale: 1:1250 (When plotted at A4)

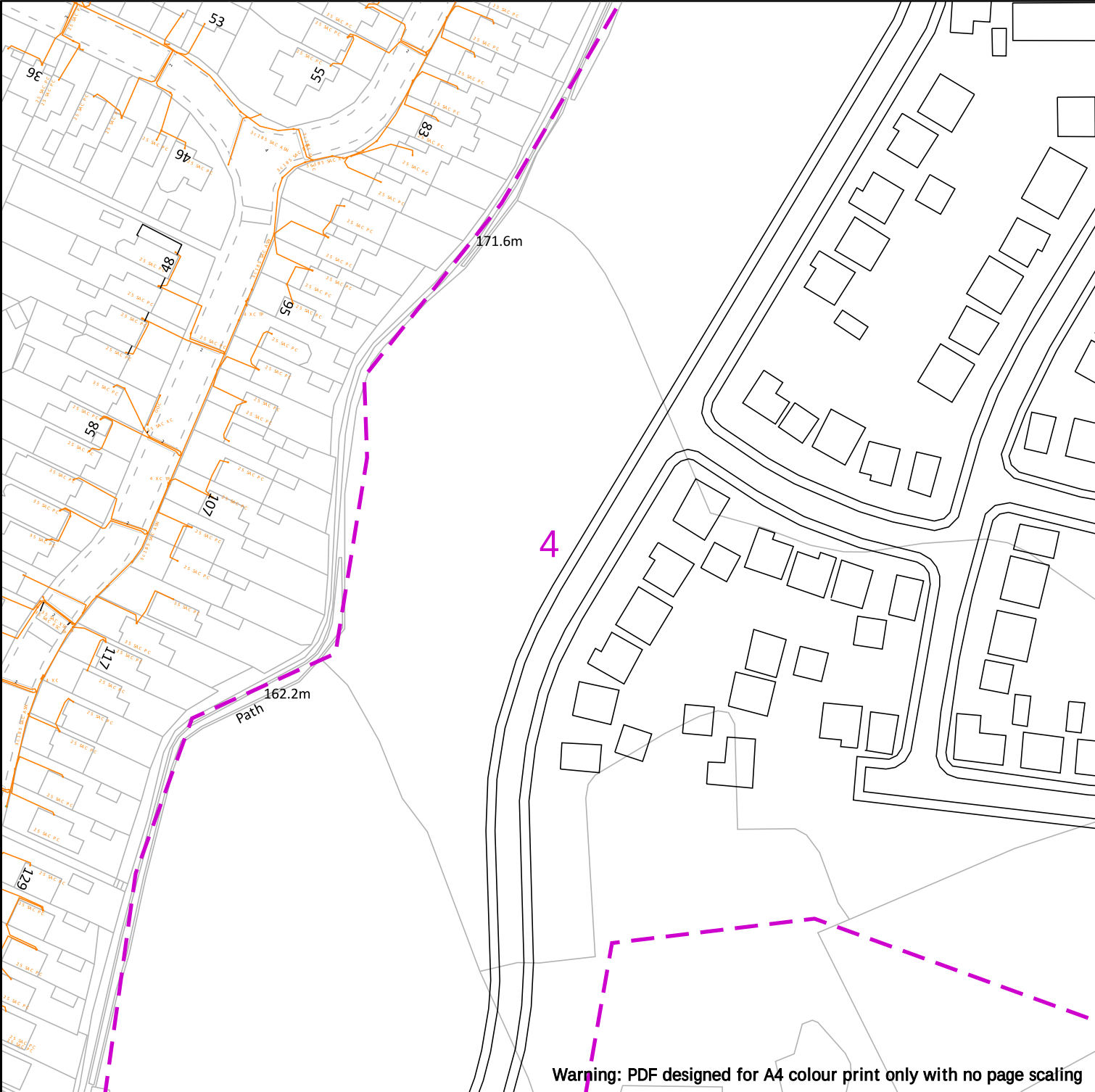
In an emergency call 105,
24 hours a day

Dig Sites

Line: 

Area: 

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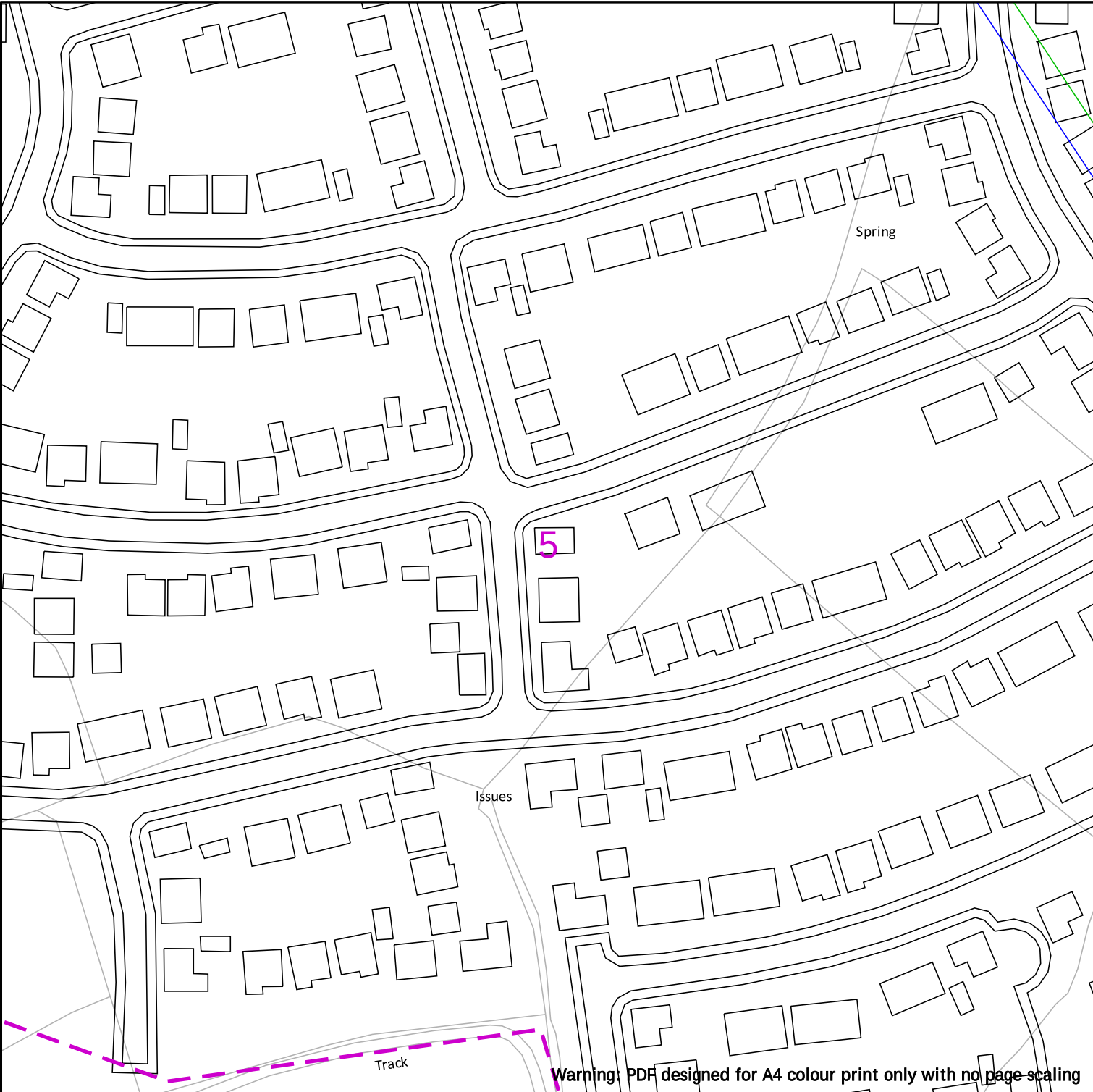
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Unknown Voltage	Brown			

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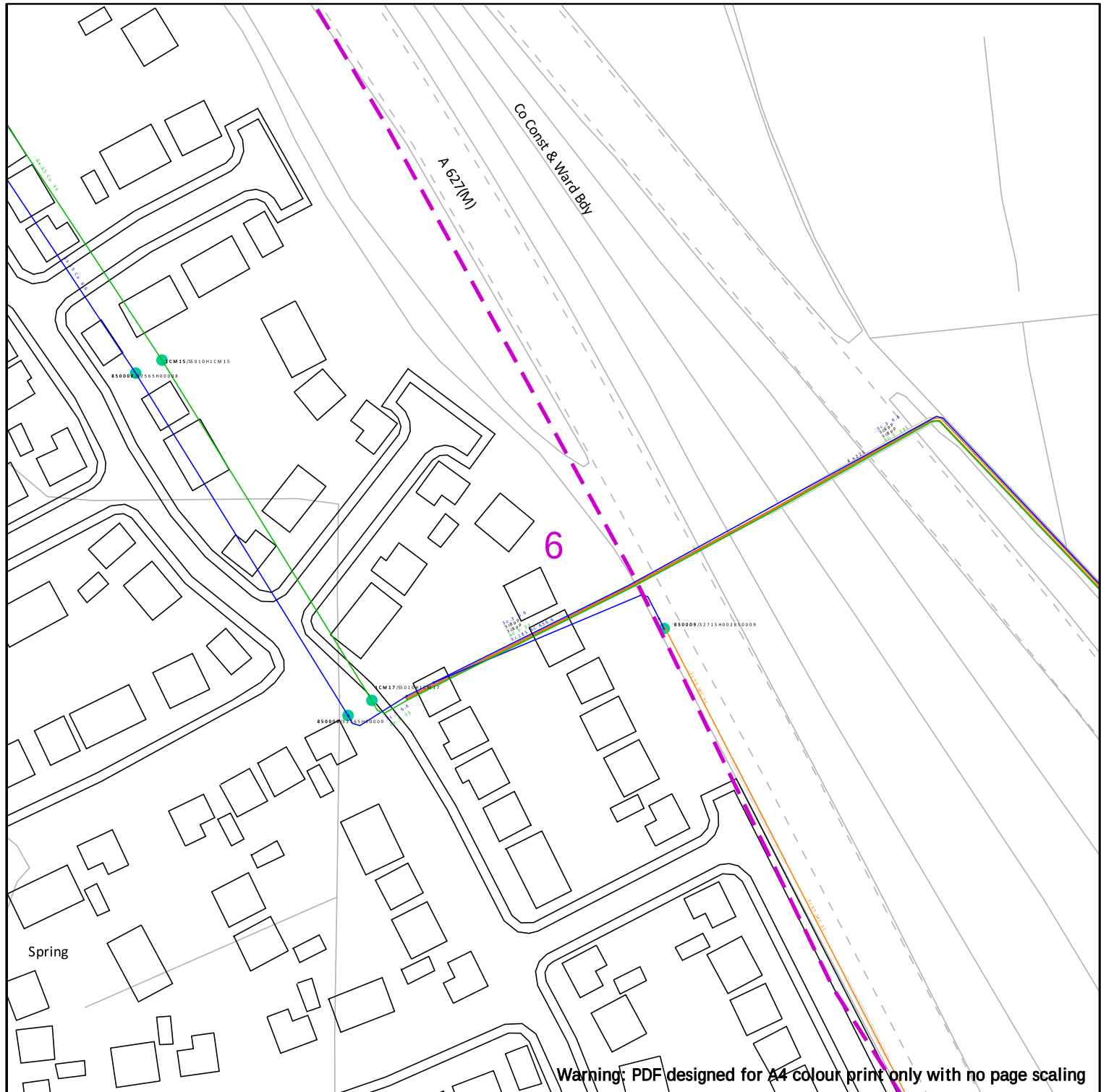
Scale: 1:1250 (When plotted at A4)



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Operating Voltage

132kV

33kV

22kV-25kV

11kV

6kV-6.6kV

1kV-6kV

LV

Unknown Voltage

Colour Code

Black

Green

Yellow

Red

Blue

Violet

Orange

Brown

Line Colour

Black

Green

Yellow

Red

Blue

Violet

Orange

Brown

In an emergency call 105,
24 hours a day

Dig Sites

Line: - - - -

Area: [] [] [] []

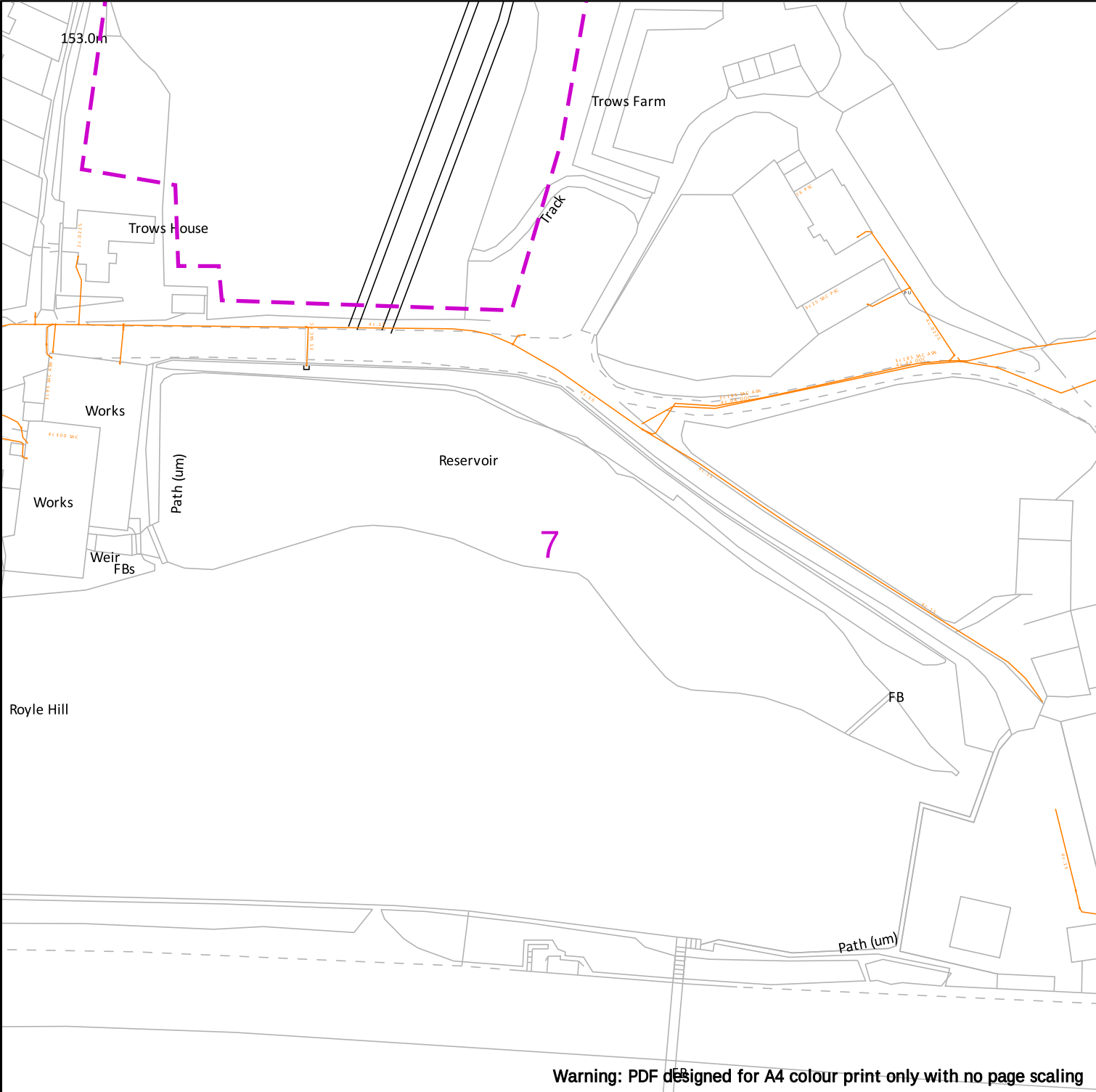
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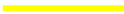
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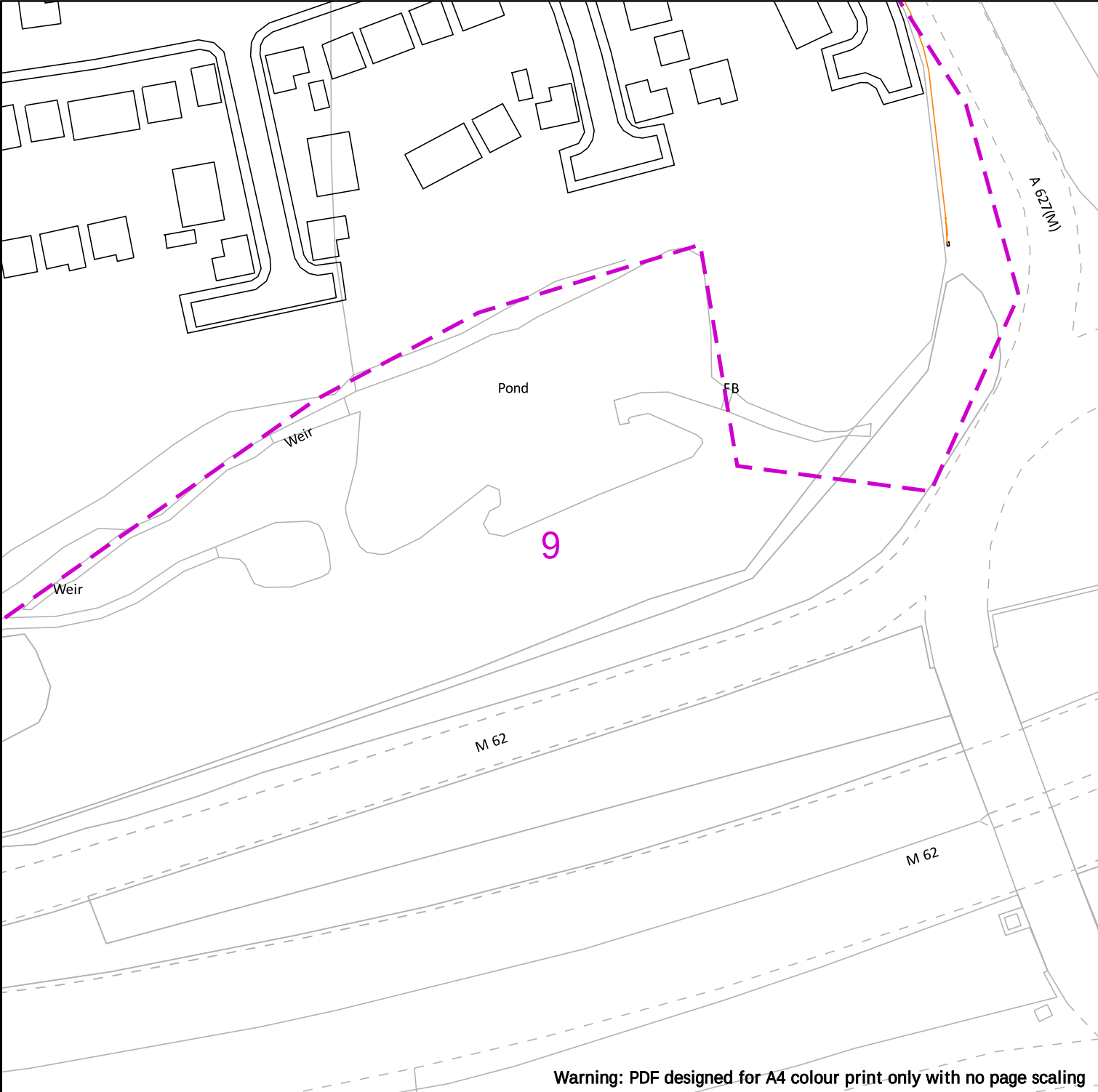
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Enquirer

Name	Miss Lauren Wenham	Phone	01604 781877
Company	Soiltechnics Ltd	Mobile	Not Supplied
Address	Cedar Barn White Lodge Walgrave NTH NN6 9PY		
Email	admin@soiltechnics.net		

Enquiry Details

Enquiry type	Planned Works
Work category	Development Projects
Work type	Piling
Work type buffer*	150 metres
Start date	02/07/2024
End date	02/07/2024
Scheme/Reference	STV5936
Search location	OL112PU
Confirmed location	-02 54
Site size	0 metres square
Site Contact Name	Admin Soiltechnics
Site Phone No.	01604781877
Description of Works	Boreholes

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

Site Map



Please note that the above map only displays the location of the proposed work site and will not display any of the Members' pipes and cables. It is imperative that this area accurately reflects the proposed work site.

Affected LSBUD members

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

Do not proceed until all Members listed below have confirmed that your works can continue.

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
Electricity North West Limited	08001954141	08001954141	Await response
Fulcrum Pipelines Limited	03330146455	0800111999	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/lineasearchbeforeudig-support) for further guidance.

This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.

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

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

List of not affected LSBUD members (LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cambridge Water
Cambridgeshire County Council Climate Change and Energy Services	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Live Pipelines)	Drax Power Limited	E.ON UK CHP Limited
EDF Energy Renewables Ltd	EirGrid	Eleclink Limited
Energy Assets Networks	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langage Limited	ESB CCGT Power station (Carrington Gas Pipeline)	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	euNetworks Fiber UK Ltd
EXA Infrastructure	Exolum Pipeline System	Fulcrum Electricity Assets Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOBYN ChlorVinyls Limited	INOBYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Kensa Utilities
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
MUA Group Limited	National Gas Transmission	National Grid Electricity Distribution
National Grid Electricity Transmission	National Grid Ventures	Neos Networks
Northern Gas Networks Limited	Northumbrian Water Group	NPower CHP Pipelines
NTT Global Data Centers EMEA UK Ltd	NYnet Ltd	Ogi
Oikos Storage Limited	Ørsted	Palm Paper Ltd
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
SAS Utility Services Ltd	Scottish and Southern Electricity Networks	Scottish Power Generation
Seabank Power Ltd	SES Water	SGN
Shell	Shell NOP	South Staffs Water
SP Energy Networks	Spring Fibre Limited	Squire Energy Networks
SSE Generation Ltd	SSE Transmission	SSE Utility Solutions Limited

Storengy	Tata Communications (c/o JSM Construction Ltd)	TfL – London Underground HV Cables (Road Side Cables)
toob Limited	Total Colnbrook Pipelines	Total Finaline Pipelines
Transmission Capital	Trojan Energy Limited	UK Power Networks
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	Voneus Limited
VPI Power Limited	Wales and West Utilities	Welsh Power
West of Duddon Sands Transmission Ltd	West Sussex OpenNetwork (Cooperative National Infrastructure)	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		

Non-LSBUD members (Asset owners not registered on LSBUD)

(The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding.

Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.)

Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrsua.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@ocugroup.com	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrsua@sky.uk	02070323234	Not Notified
Sota	sota.plantenquiries@ocugroup.com		Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

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