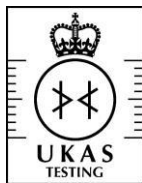


GCE00644/ R2



Appendix G Chemical Laboratory Test Results



2183

Final Report

Report No.: 17-19343-1

Initial Date of Issue: 31-Jul-2017

Client Geo Consulting Engineering Ltd

Client Address: The Studio, Woodmanton Barns
Woodbury
Exeter
Devon
EX5 1HQ

Contact(s): General
Rebecca Hitt

Project GCE00644 Southwick Court Farm

Quotation No.: Q17-08367

Date Received: 26-Jul-2017

Order No.:

Date Instructed: 26-Jul-2017

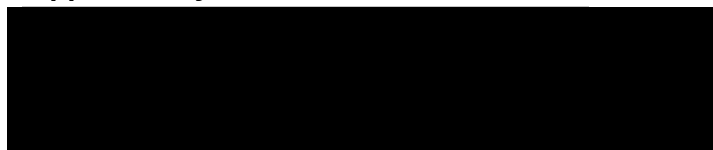
No. of Samples: 22

Turnaround (Wkdays): 3

Results Due: 28-Jul-2017

Date Approved: 31-Jul-2017

Approved By:



Details: Martin Dyer, Laboratory Manager

Results - Soil

Client: Geo Consulting Engineering Ltd	Chemtest Job No.:				17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343
Quotation No.: Q17-08367	Chemtest Sample ID.:				488470	488471	488472	488473	488474	488475	488476	488477	488478
Order No.:	Client Sample Ref.:				TP01	TP02	TP03	TP03	TP04	TP05	TP06	TP07	TP08
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.30	0.20	0.20	0.40	0.20	0.20	0.10	0.20	0.05
	Date Sampled:				18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	21-Jul-2017
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192		N/A	-	-	-	-	-	-		-	
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	
Moisture	N	2030	%	0.020	15	17	20	18	21	20	18	20	18
pH	U	2010		N/A	6.3	5.7	6.1	6.4	5.8	6.0		7.4	
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010		< 0.010	
Sulphate (Total)	U	2430	%	0.010	0.023	0.079	0.10	0.026	0.046	0.17		0.081	
Arsenic	U	2450	mg/kg	1.0	11	13	11	8.3	13	11		12	
Cadmium	U	2450	mg/kg	0.10	0.14	0.27	0.33	0.10	0.29	0.35		0.30	
Chromium	U	2450	mg/kg	1.0	21	25	39	38	33	33		31	
Copper	U	2450	mg/kg	0.50	9.8	18	15	14	17	19		11	
Mercury	U	2450	mg/kg	0.10	< 0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10		< 0.10	
Nickel	U	2450	mg/kg	0.50	13	14	22	21	20	16		16	
Lead	U	2450	mg/kg	0.50	29	52	41	25	43	56		32	
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	
Zinc	U	2450	mg/kg	0.50	44	88	130	84	110	150		80	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Total Organic Carbon	U	2625	%	0.20	1.3	3.6	4.7	1.2	4.1	4.6		2.2	
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.61		< 0.10	
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.62		< 0.10	
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.69		< 0.10	
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	

Results - Soil

Client: Geo Consulting Engineering Ltd	Chemtest Job No.:				17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343
Quotation No.: Q17-08367	Chemtest Sample ID.:				488470	488471	488472	488473	488474	488475	488476	488477	488478
Order No.:	Client Sample Ref.:				TP01	TP02	TP03	TP03	TP04	TP05	TP06	TP07	TP08
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.30	0.20	0.20	0.40	0.20	0.20	0.10	0.20	0.05
	Date Sampled:				18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	18-Jul-2017	21-Jul-2017
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	
Determinand	Accred.	SOP	Units	LOD									
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	
Demeton-O	N	2820	mg/kg	0.20							< 0.20		< 0.20
Demeton-S	N	2820	mg/kg	0.20							< 0.20		< 0.20
Azinphos-Methyl	N	2820	mg/kg	0.20							< 0.20		< 0.20
Dimethoate	N	2820	mg/kg	0.20							< 0.20		< 0.20
Parathion	N	2820	mg/kg	0.20							< 0.20		< 0.20
Chlorfenvinphos	N	2820	mg/kg	0.20							< 0.20		< 0.20
Diazinon	N	2820	mg/kg	0.20							< 0.20		< 0.20
Azinphos-Ethyl	N	2820	mg/kg	0.20							< 0.20		< 0.20
Fenitrothion	N	2820	mg/kg	0.20							< 0.20		< 0.20
Malathion	N	2820	mg/kg	0.20							< 0.20		< 0.20
Mevinphos	N	2820	mg/kg	0.20							< 0.20		< 0.20
Parathion Methyl	N	2820	mg/kg	0.20							< 0.20		< 0.20
Alpha-HCH	N	2840	mg/kg	0.20							< 0.20		< 0.20
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20							< 0.20		< 0.20
Beta-HCH	N	2840	mg/kg	0.20							< 0.20		< 0.20
Delta-HCH	N	2840	mg/kg	0.20							< 0.20		< 0.20
Heptachlor	N	2840	mg/kg	0.20							< 0.20		< 0.20
Aldrin	N	2840	mg/kg	0.20							< 0.20		< 0.20
Heptachlor Epoxide	N	2840	mg/kg	0.20							< 0.20		< 0.20
Gamma-Chlordane	N	2840	mg/kg	0.20							< 0.20		< 0.20
Alpha-Chlordane	N	2840	mg/kg	0.20							< 0.20		< 0.20
Endosulfan I	N	2840	mg/kg	0.20							< 0.20		< 0.20
4,4-DDE	N	2840	mg/kg	0.20							< 0.20		< 0.20
Dieldrin	N	2840	mg/kg	0.20							< 0.20		< 0.20
Endrin	N	2840	mg/kg	0.20							< 0.20		< 0.20
4,4-DDD	N	2840	mg/kg	0.20							< 0.20		< 0.20
Endosulfan II	N	2840	mg/kg	0.20							< 0.20		< 0.20
Endrin Aldehyde	N	2840	mg/kg	0.20							< 0.20		< 0.20
4,4-DDT	N	2840	mg/kg	0.20							< 0.20		< 0.20
Endosulfan Sulphate	N	2840	mg/kg	0.20							< 0.20		< 0.20
Methoxychlor	N	2840	mg/kg	0.20							< 0.20		< 0.20
Endrin Ketone	N	2840	mg/kg	0.20							< 0.20		< 0.20

Results - Soil

Client: Geo Consulting Engineering Ltd	Chemtest Job No.:	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343
Quotation No.: Q17-08367	Chemtest Sample ID.:	488479	488480	488481	488482	488483	488484	488485	488486
Order No.:	Client Sample Ref.:	TP09	TP09	TP10	TP10	TP10	TP10	TP11	TP11
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	0.10	0.40	0.10	0.70	1.40	2.50	0.10	1.90
	Date Sampled:	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017
	Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD					
ACM Type	U	2192		N/A	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	20	16	24	19	22
pH	U	2010		N/A	5.9	6.6	5.7	5.9	7.5
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	0.037	0.30
Sulphate (Total)	U	2430	%	0.010	0.16	0.028	0.13	0.033	0.27
Arsenic	U	2450	mg/kg	1.0	11	12	11	8.7	21
Cadmium	U	2450	mg/kg	0.10	0.32	0.11	0.45	0.13	0.89
Chromium	U	2450	mg/kg	1.0	33	36	38	43	31
Copper	U	2450	mg/kg	0.50	15	11	19	20	23
Mercury	U	2450	mg/kg	0.10	16	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	U	2450	mg/kg	0.50	16	17	23	29	130
Lead	U	2450	mg/kg	0.50	49	21	49	15	15
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.30
Zinc	U	2450	mg/kg	0.50	150	82	150	100	440
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	3.8	0.67	4.7	0.50	1.6
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Client: Geo Consulting Engineering Ltd	Chemtest Job No.:				17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343	17-19343
Quotation No.: Q17-08367	Chemtest Sample ID.:				488479	488480	488481	488482	488483	488484	488485	488486
Order No.:	Client Sample Ref.:				TP09	TP09	TP10	TP10	TP10	TP10	TP11	TP11
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.10	0.40	0.10	0.70	1.40	2.50	0.10	1.90
	Date Sampled:				21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20								
Demeton-S	N	2820	mg/kg	0.20								
Azinphos-Methyl	N	2820	mg/kg	0.20								
Dimethoate	N	2820	mg/kg	0.20								
Parathion	N	2820	mg/kg	0.20								
Chlorfenvinphos	N	2820	mg/kg	0.20								
Diazinon	N	2820	mg/kg	0.20								
Azinphos-Ethyl	N	2820	mg/kg	0.20								
Fenitrothion	N	2820	mg/kg	0.20								
Malathion	N	2820	mg/kg	0.20								
Mevinphos	N	2820	mg/kg	0.20								
Parathion Methyl	N	2820	mg/kg	0.20								
Alpha-HCH	N	2840	mg/kg	0.20								
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20								
Beta-HCH	N	2840	mg/kg	0.20								
Delta-HCH	N	2840	mg/kg	0.20								
Heptachlor	N	2840	mg/kg	0.20								
Aldrin	N	2840	mg/kg	0.20								
Heptachlor Epoxide	N	2840	mg/kg	0.20								
Gamma-Chlordane	N	2840	mg/kg	0.20								
Alpha-Chlordane	N	2840	mg/kg	0.20								
Endosulfan I	N	2840	mg/kg	0.20								
4,4-DDE	N	2840	mg/kg	0.20								
Dieldrin	N	2840	mg/kg	0.20								
Endrin	N	2840	mg/kg	0.20								
4,4-DDD	N	2840	mg/kg	0.20								
Endosulfan II	N	2840	mg/kg	0.20								
Endrin Aldehyde	N	2840	mg/kg	0.20								
4,4-DDT	N	2840	mg/kg	0.20								
Endosulfan Sulphate	N	2840	mg/kg	0.20								
Methoxychlor	N	2840	mg/kg	0.20								
Endrin Ketone	N	2840	mg/kg	0.20								

Results - Soil

Client: Geo Consulting Engineering Ltd	Chemtest Job No.:				17-19343	17-19343	17-19343	17-19343	17-19343
Quotation No.: Q17-08367	Chemtest Sample ID.:				488487	488488	488489	488490	488491
Order No.:	Client Sample Ref.:				TP12	TP13	TP13	TP14	TP16
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.30	0.40	1.90	0.80	0.40
	Date Sampled:				21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	IN-TRANSIT	COVENTRY
Determinand	Accred.	SOP	Units	LOD					
ACM Type	U	2192		N/A	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	21	18	22	16	26
pH	U	2010		N/A	6.1	6.3	4.7	6.6	7.2
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	< 0.010	< 0.010	1.5	0.023	< 0.010
Sulphate (Total)	U	2430	%	0.010	0.10	0.047	4.0	< 0.010	0.024
Arsenic	U	2450	mg/kg	1.0	8.8	7.5	3.8	11	17
Cadmium	U	2450	mg/kg	0.10	0.16	< 0.10	< 0.10	0.29	0.37
Chromium	U	2450	mg/kg	1.0	34	35	28	27	42
Copper	U	2450	mg/kg	0.50	11	7.0	19	10	16
Mercury	U	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	U	2450	mg/kg	0.50	21	20	15	37	35
Lead	U	2450	mg/kg	0.50	22	15	16	11	30
Selenium	U	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	U	2450	mg/kg	0.50	65	58	4.7	68	150
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Organic Carbon	U	2625	%	0.20	1.6	0.54	1.2	0.36	2.2
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	< 10	< 10	< 10	< 10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Client: Geo Consulting Engineering Ltd	Chemtest Job No.:				17-19343	17-19343	17-19343	17-19343	17-19343
Quotation No.: Q17-08367	Chemtest Sample ID.:				488487	488488	488489	488490	488491
Order No.:	Client Sample Ref.:				TP12	TP13	TP13	TP14	TP16
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.30	0.40	1.90	0.80	0.40
	Date Sampled:				21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017	21-Jul-2017
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	IN-TRANSIT	COVENTRY
Determinand	Accred.	SOP	Units	LOD					
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Demeton-O	N	2820	mg/kg	0.20					
Demeton-S	N	2820	mg/kg	0.20					
Azinphos-Methyl	N	2820	mg/kg	0.20					
Dimethoate	N	2820	mg/kg	0.20					
Parathion	N	2820	mg/kg	0.20					
Chlorfenvinphos	N	2820	mg/kg	0.20					
Diazinon	N	2820	mg/kg	0.20					
Azinphos-Ethyl	N	2820	mg/kg	0.20					
Fenitrothion	N	2820	mg/kg	0.20					
Malathion	N	2820	mg/kg	0.20					
Mevinphos	N	2820	mg/kg	0.20					
Parathion Methyl	N	2820	mg/kg	0.20					
Alpha-HCH	N	2840	mg/kg	0.20					
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20					
Beta-HCH	N	2840	mg/kg	0.20					
Delta-HCH	N	2840	mg/kg	0.20					
Heptachlor	N	2840	mg/kg	0.20					
Aldrin	N	2840	mg/kg	0.20					
Heptachlor Epoxide	N	2840	mg/kg	0.20					
Gamma-Chlordane	N	2840	mg/kg	0.20					
Alpha-Chlordane	N	2840	mg/kg	0.20					
Endosulfan I	N	2840	mg/kg	0.20					
4,4-DDE	N	2840	mg/kg	0.20					
Dieldrin	N	2840	mg/kg	0.20					
Endrin	N	2840	mg/kg	0.20					
4,4-DDD	N	2840	mg/kg	0.20					
Endosulfan II	N	2840	mg/kg	0.20					
Endrin Aldehyde	N	2840	mg/kg	0.20					
4,4-DDT	N	2840	mg/kg	0.20					
Endosulfan Sulphate	N	2840	mg/kg	0.20					
Methoxychlor	N	2840	mg/kg	0.20					
Endrin Ketone	N	2840	mg/kg	0.20					

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID
2820	Organophosphorus (O-P) Pesticides in Soils by GC-MS	Organophosphorus pesticide representative suite including Parathion, Malathion etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2840	Organochlorine (O-Cl) Pesticides in Soils by GC-MS	Organochlorine pesticide representative suite including DDT and its metabolites, 'drins' and HCH etc, plus client specific determinands	Dichloromethane extraction / GC-MS

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.co.uk

GCE00644/ R2



Appendix H Geotechnical Laboratory Test Results



Laboratory Report



GEO Site & Testing Services Ltd

Contract Number: 36115

Client's Reference: **GCE00644**

Report Date: **10-08-2017**

Client **GEO Consulting Engineering Limited**
The Studio
Woodmanton Barns
Woodbury
Exeter
EX5 1HQ

Contract Title: **Southwick Court Farm**
For the attention of: **Rebecca Hitt**

Date Received: **28-07-2017**
Date Commenced: **28-07-2017**
Date Completed: **10-08-2017**

Test Description	Qty
Moisture Content 1377 : 1990 Part 2 : 3.2 - * UKAS	60
4 Point Liquid & Plastic Limit (LL/PL) 1377 : 1990 Part 2 : 4.3 & 5.3 - * UKAS	5
(GI) BRE SD1 Reduced Suite pH, Acid Soluble Sulphate, Water Soluble Sulphate and Total Sulphur 1377 : 1990 Part 3 & BRE CP2/79 - @ Non Accredited Test	6
Disposal of Samples on Project	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**
* - denotes test included in laboratory scope of accreditation
- denotes test carried out by approved contractor
@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

Alex Wynn (Associate Director) - Ben Sharp (Contracts Manager) - Emma Sharp (Office Manager)
Paul Evans (Quality/Technical Manager) - Richard John (Advanced Testing Manager) - Sean Penn (Administrative/Quality Assistant)
Vaughan Edwards (Managing Director) - Wayne Honey (Administrative/Quality Assistant)



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377 : Part 2 : 1990 Method 5)

DESCRIPTIONS

Contract Number

36115

Site Name

Southwick Court Farm

Hole Reference	Sample Number	Sample Type	Depth (m)			Descriptions
TP01			0.40	-		Brown fine sandy silty CLAY.
TP01			0.90	-		Brown fine sandy silty CLAY.
TP01			1.50	-		Brown fine sandy silty CLAY.
TP01			1.60	-		Brown fine sandy silty CLAY.
TP01			2.00	-		Brown fine to medium gravelly sandy silty CLAY.
TP02			0.30	-		Brown fine sandy silty CLAY.
TP02			0.90	-		Brown fine sandy silty CLAY.
TP02			1.30	-		Brown fine sandy silty CLAY.
TP03			0.80	-		Brown fine sandy silty CLAY.
TP03			1.50	-		Greyish brown sandy clayey SILT.
TP04			0.40	-		Brown fine sandy silty CLAY.
TP04			0.90	-		Greyish brown fine sandy silty CLAY.
TP04			1.50	-		Greyish brown fine sandy silty CLAY.
TP04			1.90	-		Greyish brown fine sandy silty CLAY.
TP05			0.90	-		Greyish brown fine sandy silty CLAY.
TP05			1.70	-		Greyish brown fine sandy silty CLAY.
TP05			2.50	-		Greyish brown fine sandy silty CLAY.
TP06			0.70	-		Brown fine sandy silty CLAY.
TP06			1.00	-		Greyish brown fine sandy silty CLAY.
TP06			1.30	-		Brown fine sandy silty CLAY.
TP06			1.50	-		Brown fine sandy silty CLAY.
TP06			1.70	-		Brown fine sandy silty CLAY.
TP06			2.50	-		Brown fine sandy silty CLAY.
TP06			3.00	-		Brown fine sandy silty CLAY.

Operators

Checked

09-08-17

Emma Sharp

RO/MH

Approved

10-08-17

Paul Evans





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377 : Part 2 : 1990 Method 5)

Contract Number

36115

Site Name

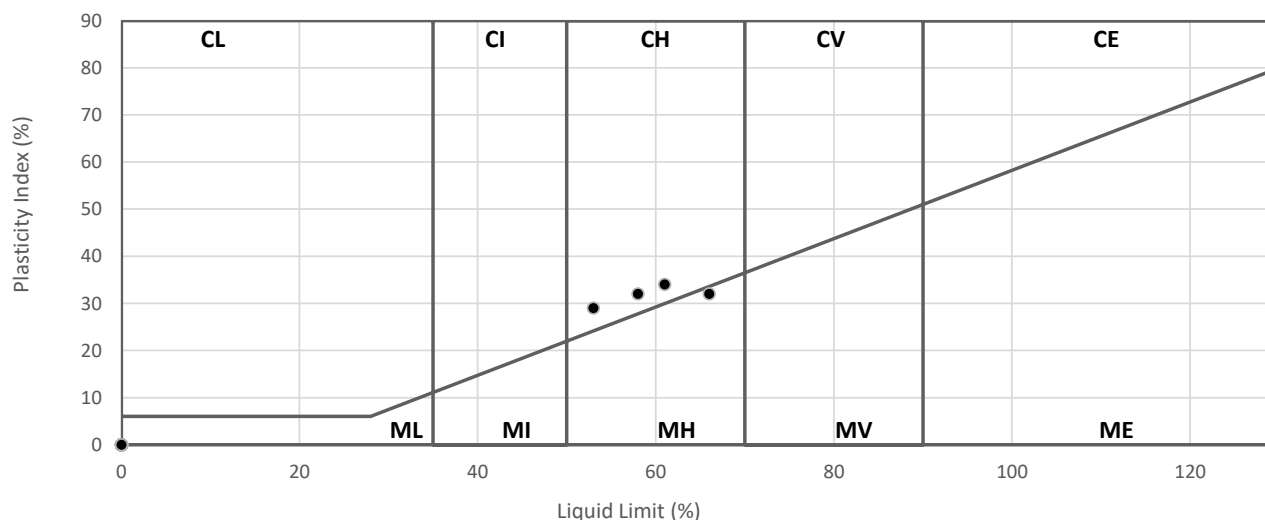
Southwick Court Farm

Hole Reference	Sample Number	Sample Type	Depth (m)			Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing .425mm %	Remarks
TP01			0.40	-		17					
TP01			0.90	-		23	58	26	32	100	CH High Plasticity
TP01			1.50	-		25					
TP01			1.60	-		23					
TP01			2.00	-		18					
TP02			0.30	-		14					
TP02			0.90	-		21					
TP02			1.30	-		29	53	24	29	100	CH High Plasticity
TP03			0.80	-		30					
TP03			1.50	-		41	66	34	32	100	MH High Plasticity
TP04			0.40	-		24					
TP04			0.90	-		21					
TP04			1.50	-		22					
TP04			1.90	-		19					
TP05			0.90	-		23					
TP05			1.70	-		38					
TP05			2.50	-		25	61	27	34	100	CH High Plasticity
TP06			0.70	-		33					
TP06			1.00	-		41					
TP06			1.30	-		43					
TP06			1.50	-		43					
TP06			1.70	-		0					
TP06			2.50	-		29					
TP06			3.00	-		28					

Symbols: NP : Non Plastic

: Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



Operators

Checked

09-08-17

Emma Sharp

DB

Approved

10-08-17

Paul Evans





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377 : Part 2 : 1990 Method 5)

DESCRIPTIONS

Contract Number

36115

Site Name

Southwick Court Farm

Hole Reference	Sample Number	Sample Type	Depth (m)			Descriptions
TP07			0.60	-		Greyish brown fine sandy silty CLAY.
TP07			1.40	-		Greyish brown fine sandy silty CLAY.
TP07			1.70	-		Greyish brown fine sandy silty CLAY.
TP07			1.90	-		Greyish brown fine sandy silty CLAY.
TP07			2.50	-		Greyish brown fine sandy silty CLAY.
TP07			2.90	-		Greyish brown fine sandy silty CLAY.
TP07			3.30	-		Greyish brown fine sandy silty CLAY.
TP08			0.40	-		Greyish brown fine sandy silty CLAY.
TP08			1.00	-		Greyish brown fine sandy silty CLAY.
TP08			1.40	-		Greyish brown fine sandy silty CLAY.
TP08			3.60	-		Greyish brown fine sandy silty CLAY.
TP09			0.80	-		Greyish brown fine sandy silty CLAY.
TP09			1.40	-		Greyish brown fine sandy silty CLAY.
TP09			1.70	-		Greyish brown fine sandy silty CLAY.
TP09			2.00	-		Greyish brown fine sandy silty CLAY.
TP09			3.60	-		Greyish brown fine sandy silty CLAY.
TP10			1.50	-		Greyish brown fine sandy silty CLAY.
TP10			2.90	-		Greyish brown fine sandy silty CLAY.
TP11			0.60	-		Greyish brown fine sandy silty CLAY.
TP11			1.30	-		Greyish brown fine sandy silty CLAY.
TP11			2.70	-		Greyish brown fine sandy silty CLAY.
TP12			1.30	-		Greyish brown fine sandy silty CLAY.
TP12			3.00	-		Greyish brown clayey SILT.
				-		

Operators

Checked

09-08-17

Emma Sharp

RO/MH

Approved

10-08-17

Paul Evans





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377 : Part 2 : 1990 Method 5)

Contract Number

36115

Site Name

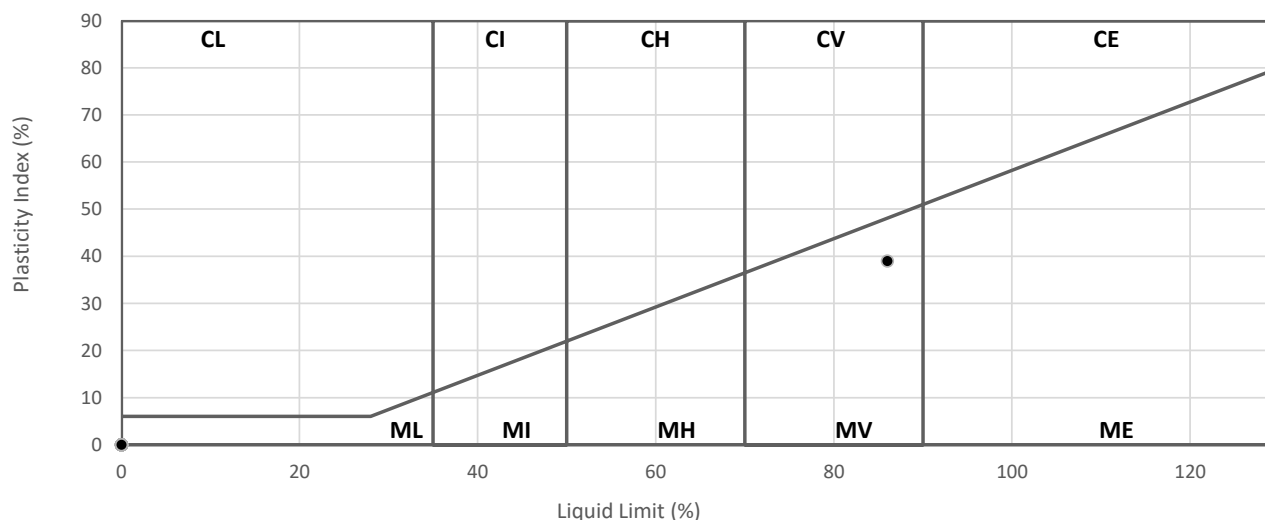
Southwick Court Farm

Hole Reference	Sample Number	Sample Type	Depth (m)			Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing .425mm %	Remarks
TP07			0.60	-		20					
TP07			1.40	-		30					
TP07			1.70	-		32					
TP07			1.90	-		31					
TP07			2.50	-		22					
TP07			2.90	-		32					
TP07			3.30	-		29					
TP08			0.40	-		23					
TP08			1.00	-		28					
TP08			1.40	-		33					
TP08			3.60	-		30					
TP09			0.80	-		27					
TP09			1.40	-		40					
TP09			1.70	-		32					
TP09			2.00	-		22					
TP09			3.60	-		31					
TP10			1.50	-		28					
TP10			2.90	-		44					
TP11			0.60	-		35					
TP11			1.30	-		28					
TP11			2.70	-		27					
TP12			1.30	-		27					
TP12			3.00	-		50	86	47	39	100	MV Very High Plasticity
				-							

Symbols: NP : Non Plastic

: Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



Operators

Checked

09-08-17

Emma Sharp

DB

Approved

10-08-17

Paul Evans



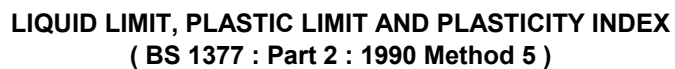
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377 : Part 2 : 1990 Method 5)

DESCRIPTIONS

Contract Number	36115	
Site Name	Southwick Court Farm	

[illegible]

Operators	Checked	09-08-17	Emma Sharp	
RO/MH	Approved	10-08-17	Paul Evans	



Contract Number

36115

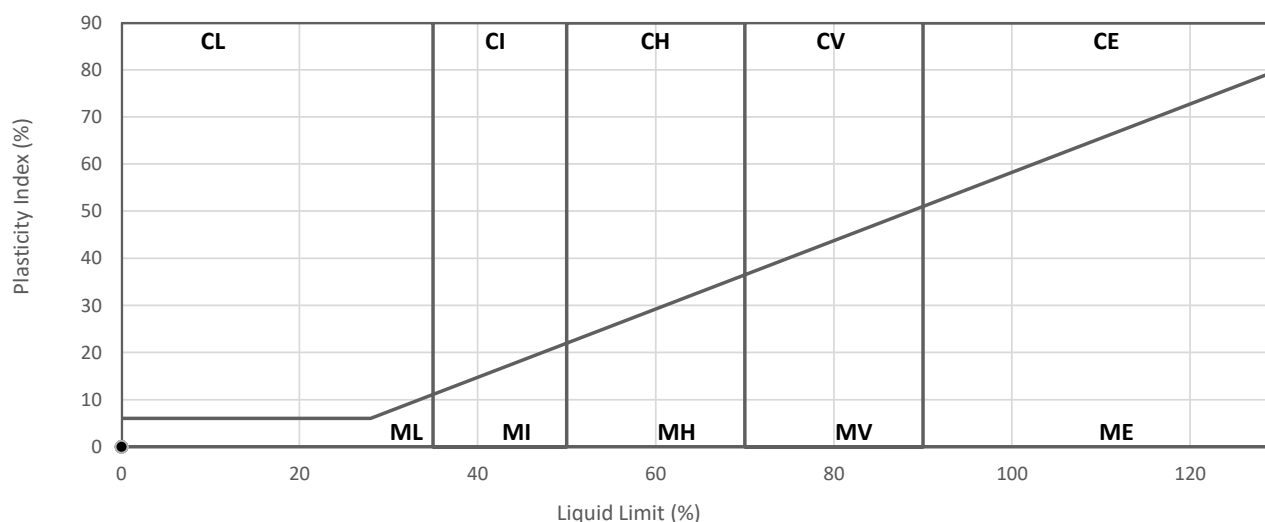
Site Name

Southwick Court Farm

Symbols: NP : Non Plastic

: Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION



Operators	Checked	09-08-17	Emma Sharp	
DB	Approved	10-08-17	Paul Evans	

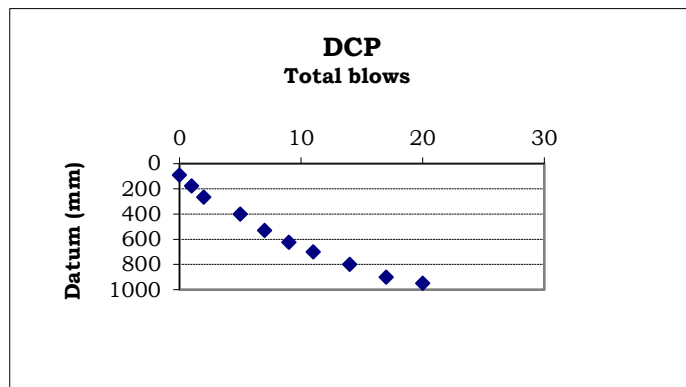


GCE00644/ R2



Appendix I DCP CBR Test Results

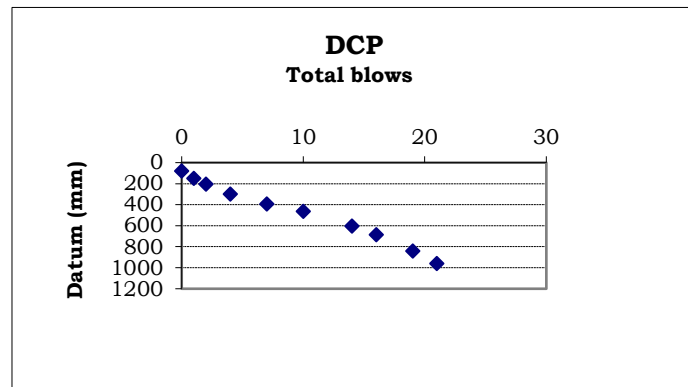
Project:	Southwick Court Farm DCP No.:	DCP1	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	90 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	90	0			0	
To	265	2	87.50	2.67	175	48.32
From	265	2			175	
To	800	14	44.58	5.46	710	73.38
From	800	14			710	
To	900	17	33.33	7.42	810	87.86
From	900	17			810	
To	950	20	16.67	15.43	860	134.97

TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

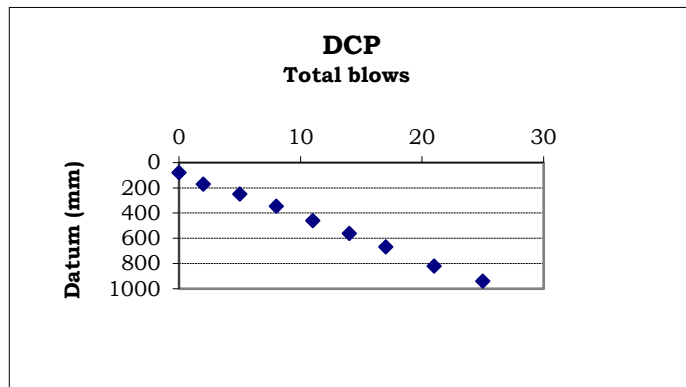
Project:	Southwick Court Farm DCP No.:	DCP2	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	80 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	80	0			0	
To	300	4	55.00	4.37	220	64.43
From	300	4			220	
To	605	14	30.50	8.15	525	92.83
From	605	14			525	
To	960	21	50.71	4.76	880	67.75

TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

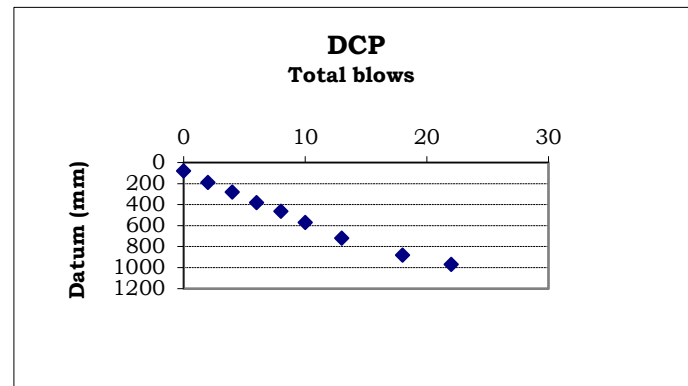
Project:	Southwick Court Farm DCP No.:	DCP3	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	78 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	78	0			0	
To	345	8	33.38	7.41	267	87.79
From	345	8			267	
To	940	25	35.00	7.05	862	85.24

TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

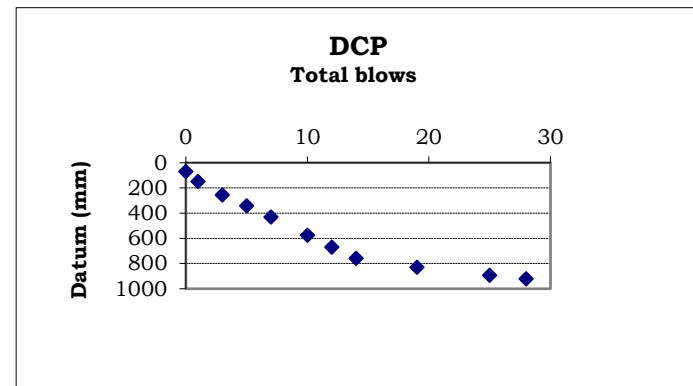
Project:	Southwick Court Farm DCP No.:	DCP4	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	80 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	80	0			0	
To	190	2	55.00	4.37	110	64.43
From	190	2			110	
To	720	13	48.18	5.03	640	69.93
From	720	13			640	
To	880	18	32.00	7.75	800	90.11
From	880	18			800	
To	970	22	22.50	11.24	890	112.07

TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

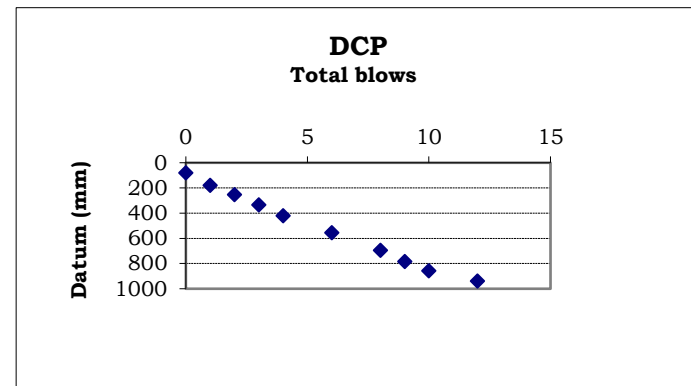
Project:	Southwick Court Farm DCP No.:	DCP5	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	70 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	70	0			0	
To	758	14	49.14	4.92	688	69.08
From	758	14			688	
To	894	25	12.36	21.16	824	162.39
From	894	25			824	
To	920	28	8.67	30.81	850	202.37

TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

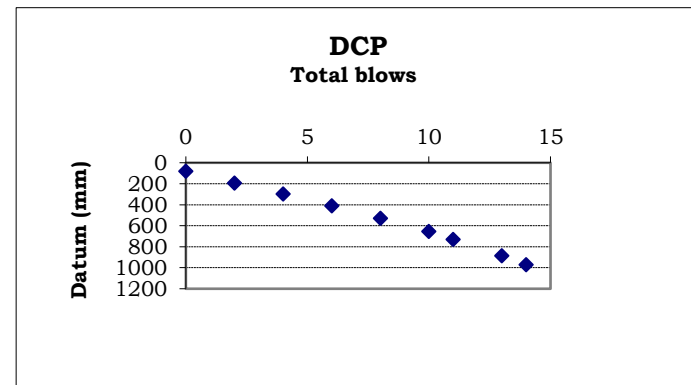
Project:	Southwick Court Farm DCP No.:	DCP6	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	80 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	80	0			0	
To	555	6	79.17	2.97	475	51.41
From	555	6			475	
To	695	8	70.00	3.39	615	55.49
From	695	8			615	
To	785	9	90.00	2.60	705	47.49
From	785	9			705	
To	857	10	72.00	3.29	777	54.53
From	857	10			777	
To	940	12	41.50	5.88	860	76.71

TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

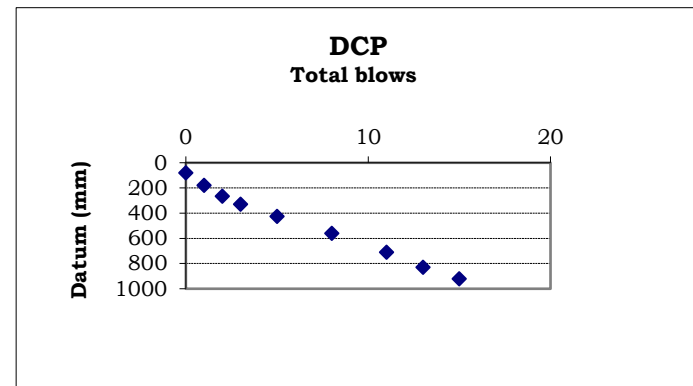
Project:	Southwick Court Farm DCP No.:	DCP7	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	80 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	80	0			0	
To	298	4	54.50	4.41	218	64.79
From	298	4			218	
To	655	10	59.50	4.02	575	61.36
From	655	10			575	
To	731	11	76.00	3.10	651	52.73
From	731	11			651	
To	885	13	77.00	3.06	805	52.31
From	885	13			805	
To	970	14	85.00	2.76	890	49.20

TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

Project:	Southwick Court Farm DCP No.:	DCP8	Date:	04/09/2017	easting	northing
Project No.:	GCE00644	Start datum:	80 mm	Start depth	0 mm	

[illegible]

	Datum(mm)	Blows	mm/blow	CBR%	Depth(mm)	Cu
From	80	0			0	
To	330	3	83.33	2.82	250	49.81
From	330	3			250	
To	425	5	47.50	5.10	345	70.55
From	425	5			345	
To	560	8	45.00	5.40	480	72.95
From	560	8			480	
To	920	15	51.43	4.69	840	67.16

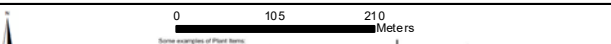
TRRL, Road Transport Note 8.
 $\text{Log CBR} = -1.057 \log (\text{mm/blow}) + 2.48$

GCE00644/ R2

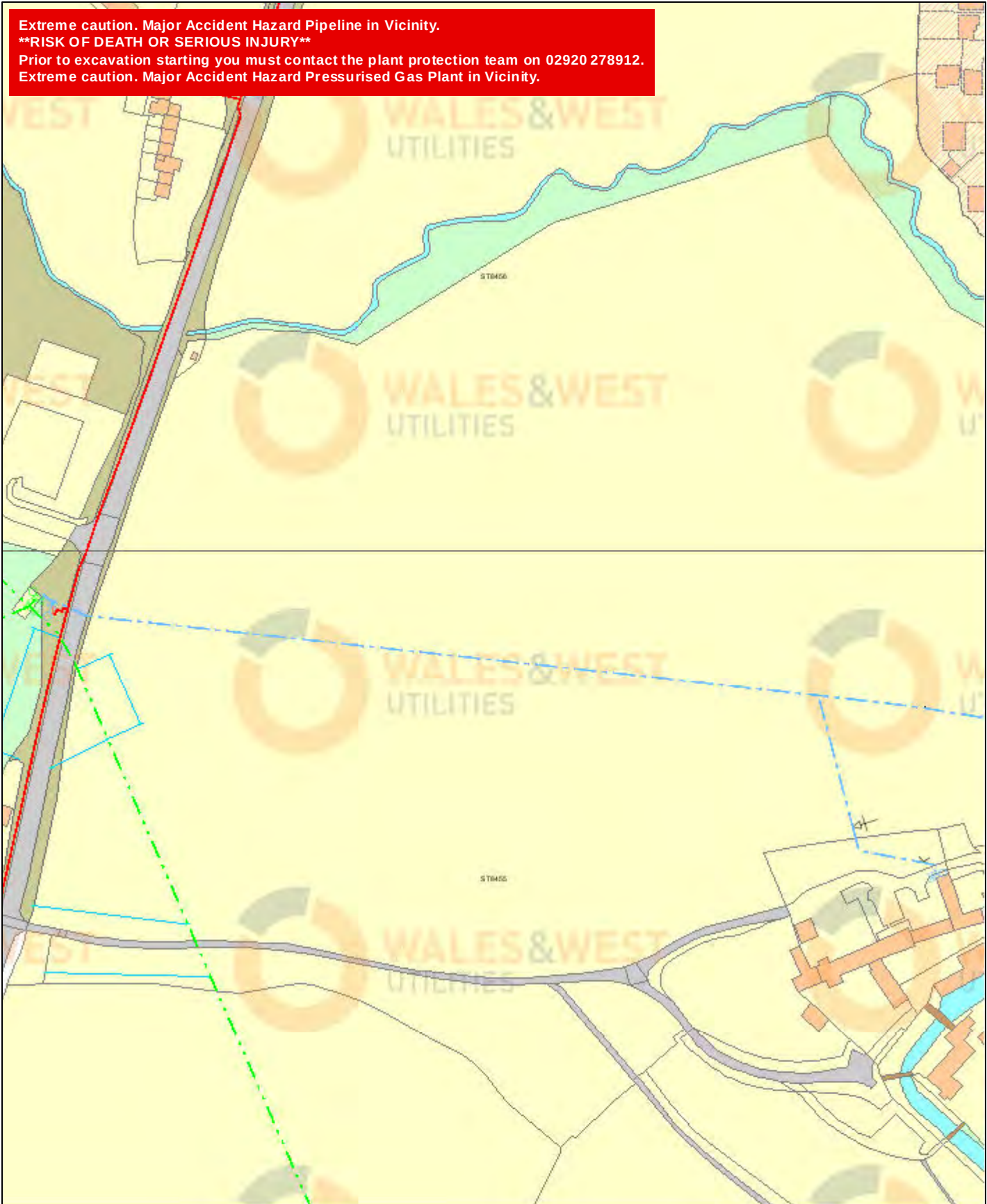


Appendix J Utility Service Plans

Extreme caution. Major Accident Hazard Pressurised Gas Plant in Vicinity.
Extreme caution. Major Accident Hazard Pipeline in Vicinity.
****RISK OF DEATH OR SERIOUS INJURY****
Prior to excavation starting you must contact the plant protection team on 02920 278912.

Scale	1: 8000@A4	TITLE: southwicke	 Wales and West Utilities Ltd., Wales and West House, Spooner Close, Celtic Springs, Coednewn, Newport, NP10 8FZ
User ID	rasfhmre@geocons.wtu	The plan shows those pipes owned by Wales & West Utilities (WUU) in its role as a Licensed Gas Transporter (GT). The information shown on this plan is derived from historic information and may have involved re-scaling plans, and the accuracy of it cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. may not be shown but their presence should be anticipated. No warranties are therefore given in respect of it. WUU its employees and contractors do not accept any liability for any inaccuracy or incompleteness in it.	
Date	21/01/2016	You must use safe digging practices, in accordance with HS(G)47, to 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 or as gas apparatus. The information shown on this plan should not be used beyond 28 days from the date of issue of this plan as it is subject to updating.	
Grid Ref:	Easting: 384678 Northing: 155633	The plan also provides indications of gas pipes owned by other GTs, or otherwise privately owned, which may be present in this area. This information is not information of WUU and WUU is unable to verify this information or to confirm whether it is accurate or complete. It is supplied voluntarily to assist the user in determining whether to make contact with other GTs or others. The user must obtain such information from the other GT or person concerned. WUU, its employees and contractors do not accept any liability for this information or any inaccuracy or incompleteness in it.	
			
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Extreme caution. Major Accident Hazard Pipeline in Vicinity.
RISK OF DEATH OR SERIOUS INJURY
Prior to excavation starting you must contact the plant protection team on 02920 278912.
Extreme caution. Major Accident Hazard Pressurised Gas Plant in Vicinity.



Scale	1 : 2000@A4	TITLE: GCE00644	 Wales and West Utilities Ltd., Wales and West House, Spooner Close, Celtic Springs, Coedkernew, Newport, NP10 8FZ
User ID	rhitt@geoconsulting	The plan shows those pipes owned by Wales & West Utilities (WWU) in its role as a Licensed Gas Transporter (GT). The information shown on this plan is derived from historic information and may have involved re-scaling plans, and the accuracy of it cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. may not be shown but their presence should be anticipated. No warranties are therefore given in respect of it. WWU its employees and contractors do not accept any liability for any inaccuracy or incompleteness in it.	
Date	19/10/2017	You must use safe digging practices, in accordance with HSG47, to 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 or near gas apparatus. The information shown on this plan should not be used beyond 28 days from the date of issue of this plan as it is subject to updating.	
Grid Ref:	Easting: 384334 Northing: 155980	The plan also provides indications of gas pipes owned by other GTs, or otherwise privately owned, which may be present in this area. This information is not information of WWU and WWU is unable to verify this information or to confirm whether it is accurate or complete. It is supplied voluntarily to assist the user in determining whether to make contact with other GTs or others. The user must obtain such information from the other GT or person concerned. WWU, its employees and contractors do not accept any liability for this information or any inaccuracy or incompleteness in it.	
Low Pressure Medium Pressure Intermediate Pressure High Pressure Design Pipes Abandoned	Valve Depth of Cover Syphon Obstacle Change Manhole Change 0 25 50 Meters	© All Master Map data is reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 0100044308.	
			Internal Use Only

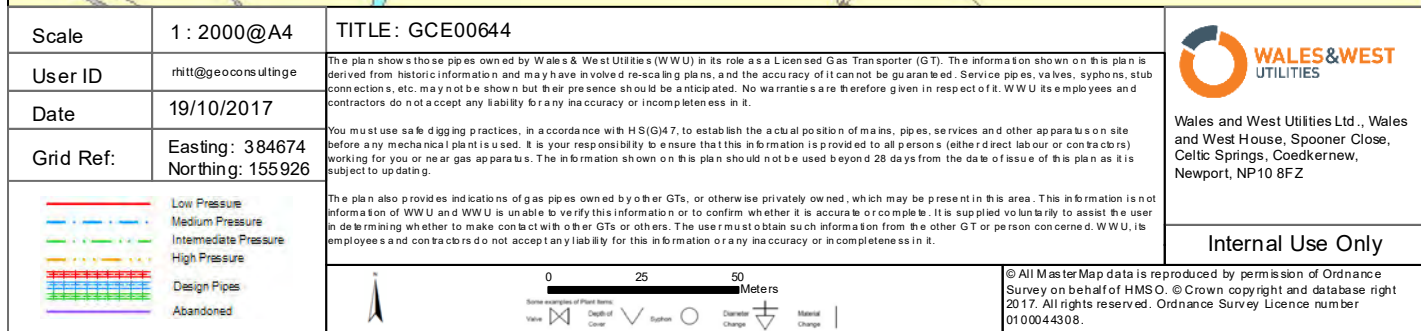
Extreme caution. Major Accident Hazard Pipeline in Vicinity.
RISK OF DEATH OR SERIOUS INJURY
Prior to excavation starting you must contact the plant protection team on 02920 278912.
Extreme caution. Major Accident Hazard Pressurised Gas Plant in Vicinity.



Scale	1 : 2000@A4	TITLE: GCE00644	 Wales and West Utilities Ltd., Wales and West House, Spooner Close, Celtic Springs, Coedkernew, Newport, NP10 8FZ
User ID	rhitt@geoconsulting	The plan shows those pipes owned by Wales & West Utilities (WU) in its role as a Licensed Gas Transporter (GT). The information shown on this plan is derived from historic information and may have involved re-scaling plans, and the accuracy of it cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. may not be shown but their presence should be anticipated. No warranties are therefore given in respect of it. WU its employees and contractors do not accept any liability for any inaccuracy or incompleteness in it.	
Date	19/10/2017	You must use safe digging practices, in accordance with HSG47, to 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 or near gas apparatus. The information shown on this plan should not be used beyond 28 days from the date of issue of this plan as it is subject to updating.	
Grid Ref:	Easting: 384980 Northing: 155805	The plan also provides indications of gas pipes owned by other GTs, or otherwise privately owned, which may be present in this area. This information is not information of WU and WU is unable to verify this information or to confirm whether it is accurate or complete. It is supplied voluntarily to assist the user in determining whether to make contact with other GTs or others. The user must obtain such information from the other GT or person concerned. WU, its employees and contractors do not accept any liability for this information or any inaccuracy or incompleteness in it.	
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****RISK OF DEATH OR SERIOUS INJURY****

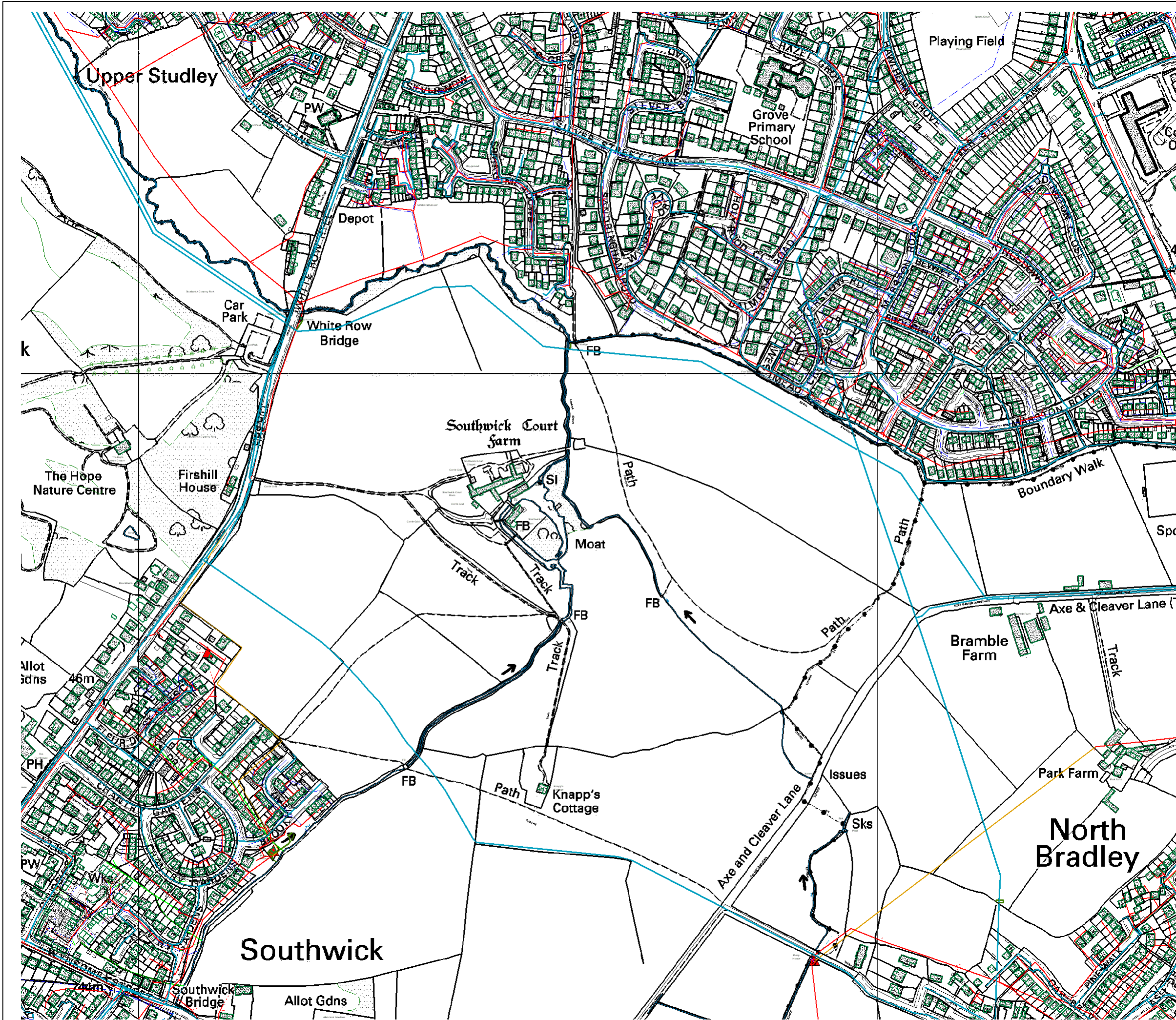
Extreme caution. Major Accident Hazard Pressurised Gas Plant in Vicinity.



Wales and West Utilities Ltd., Wales
and West House, Spooner Close,
Celtic Springs, Coedkernew,
Newport, NP10 8FZ

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Southwick Court Farm

Southwick, Trowbridge

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WATER MAINS

Public

Private

Public Raw Water

Abandoned

Valve

Hydrant

PRV

Meter

SEWERS

Public - Section 104 - Private

Foul

Combined

Surface

Abandoned sewers

OTHER WESSEX PIPES

Rising Mains

Effluent Disposal Main

Overflow

NON-WESSEX PIPES

Private Rising Mains

Culverted Water Course

Highway Drain

Information in this plan is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies.

Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown.

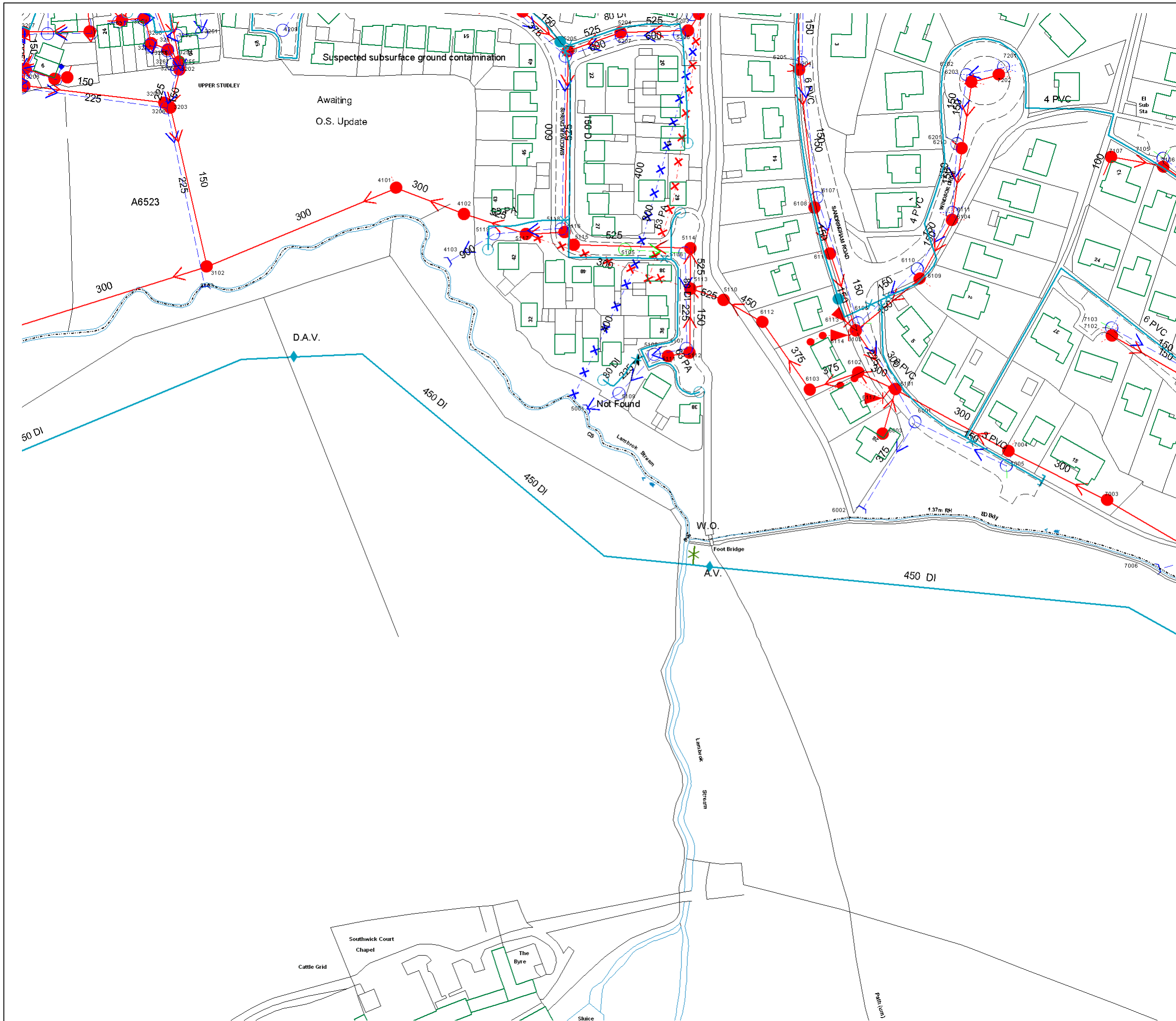
In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located.

If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. Building over or near Wessex Water's apparatus is not normally permitted.

Centre:384622.55 , 155806.82

Scale = 1:5000

Metres 100 200 300



Southwick Court Fm 2

Southwick, Trowbridge

Printed on : 22/01/2016 14:57

WATER MAINS		Public	Private
Public		—	- - -
Raw Water		—	- - -
Abandoned		—	- - -
Valve	X	Hydrant	●
		PRV	◀
		Meter	M
SEWERS		Public - Section 104 - Private	
Foul		—	
Combined		—	
Surface		—	
Abandoned sewers		X X X X X X X X X X	
OTHER WESSEX PIPES			
Rising Mains		—	
Effluent Disposal Main		—	
Overflow		—	
NON-WESSEX PIPES			
Private Rising Mains		—	
Culverted Water Course		—	
Highway Drain		—	

Information in this plan is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies.

Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown.

In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located.

If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. Building over or near Wessex Water's apparatus is not normally permitted.

Centre:384545.56 , 156052.23

Scale = 1:1500

Metres 20 40 60 80



Southwick Court Fm 3

Southwick, Trowbridge

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WATER MAINS

Public

Private

Public

Raw Water

Abandoned

Valve

Hydrant

PRV

Meter

SEWERS

Public - Section 104 - Private

Foul

Combined

Surface

Abandoned sewers

OTHER WESSEX PIPES

Rising Mains

Effluent Disposal Main

Overflow

NON-WESSEX PIPES

Private Rising Mains

Culverted Water Course

Highway Drain

Information in this plan is provided for identification purposes only. No warranty as to accuracy is given or implied. The precise route of pipe work may not exactly match that shown. Wessex Water does not accept liability for inaccuracies.

Sewers and lateral drains adopted by Wessex Water under the Water Industry (Schemes for Adoption of Private Sewers) Regulations 2011 are to be plotted over time and may not yet be shown.

In carrying out any works, you accept liability for the cost of any repairs to Wessex Water apparatus damaged as a result of your works. You are advised to commence excavations using hand tools only. Mechanical digging equipment should not be used until pipe work has been precisely located.

If you are considering any form of building works and pipe work is shown within the boundary of your property or a property to be purchased (or very close by) a surveyor should plot its exact position prior to commencing works or purchase. Building over or near Wessex Water's apparatus is not normally permitted.

Centre:384870.60 , 155878.39

Scale = 1:1500

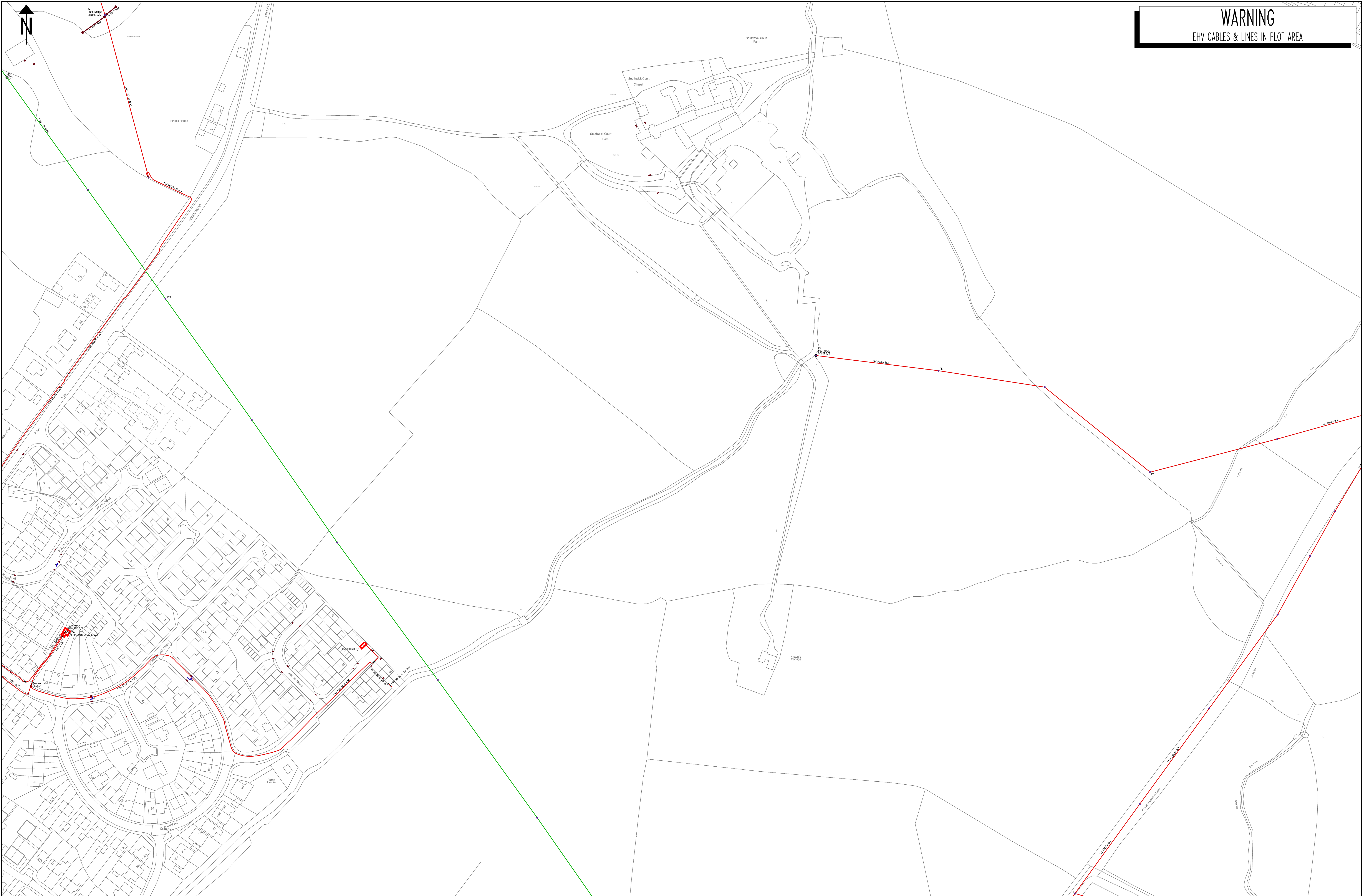
Metres

20

40

60

80



WARNING

EHV CABLES & LINES IN PLOT AREA

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	lv	hv	ehv
FOOTPATH		0.45m	0.45m	0.60m 0.80m
ROAD CROSSING		0.60m	0.60m	0.75m 0.90m
AGRICULTURAL		0.60m	0.60m	0.75m 0.90m
l.v./services	- up to 1000V.			
h.v.	- over 1000V. to 11.000V.			
e.h.v.	- 22.000V. to 132.000V.			

WARNING

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

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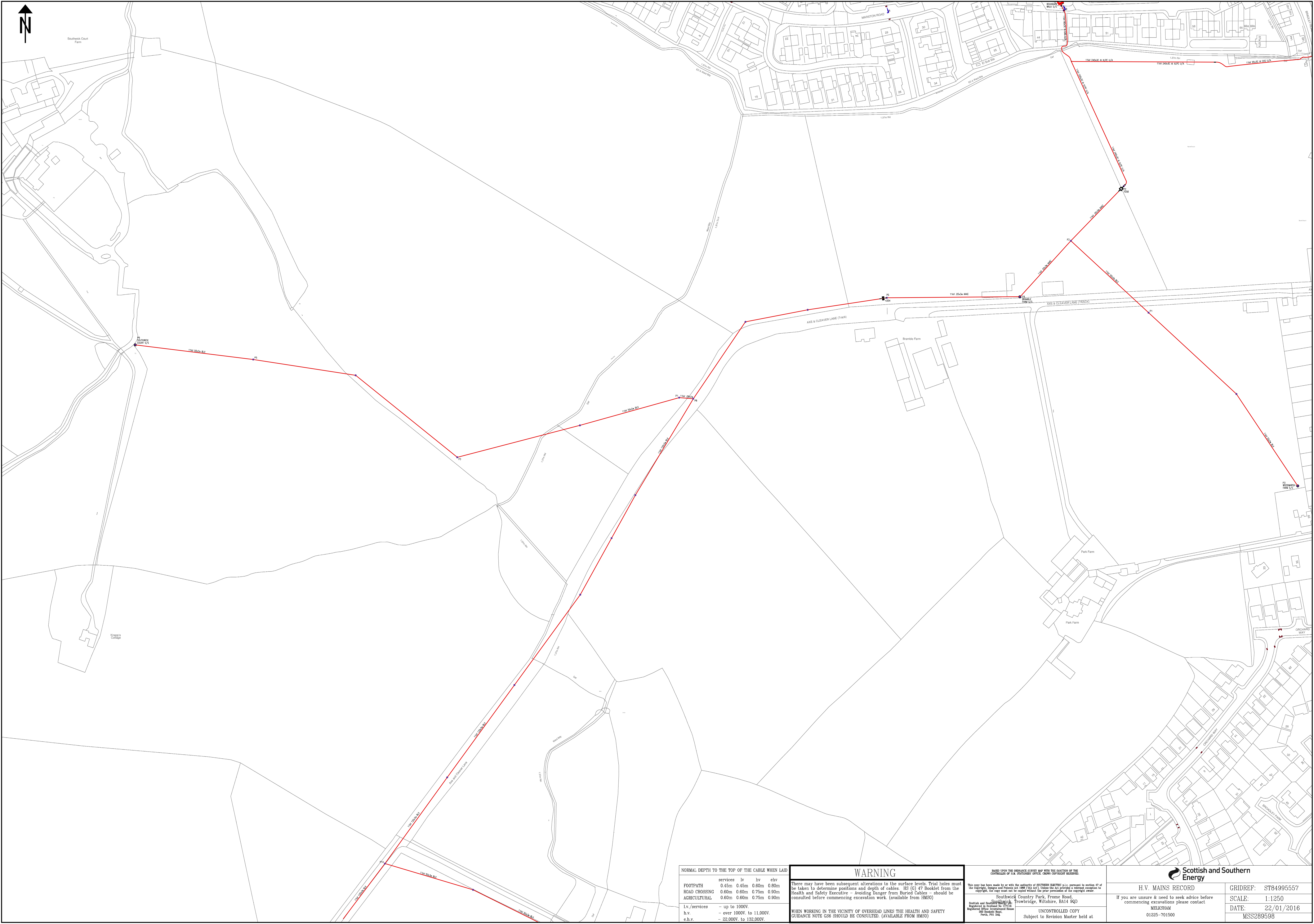
01225-701500

GRIDREF: ST84485557

SCALE: 1:1250

DATE: 22/01/2016

MSS289597



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

WARNING

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

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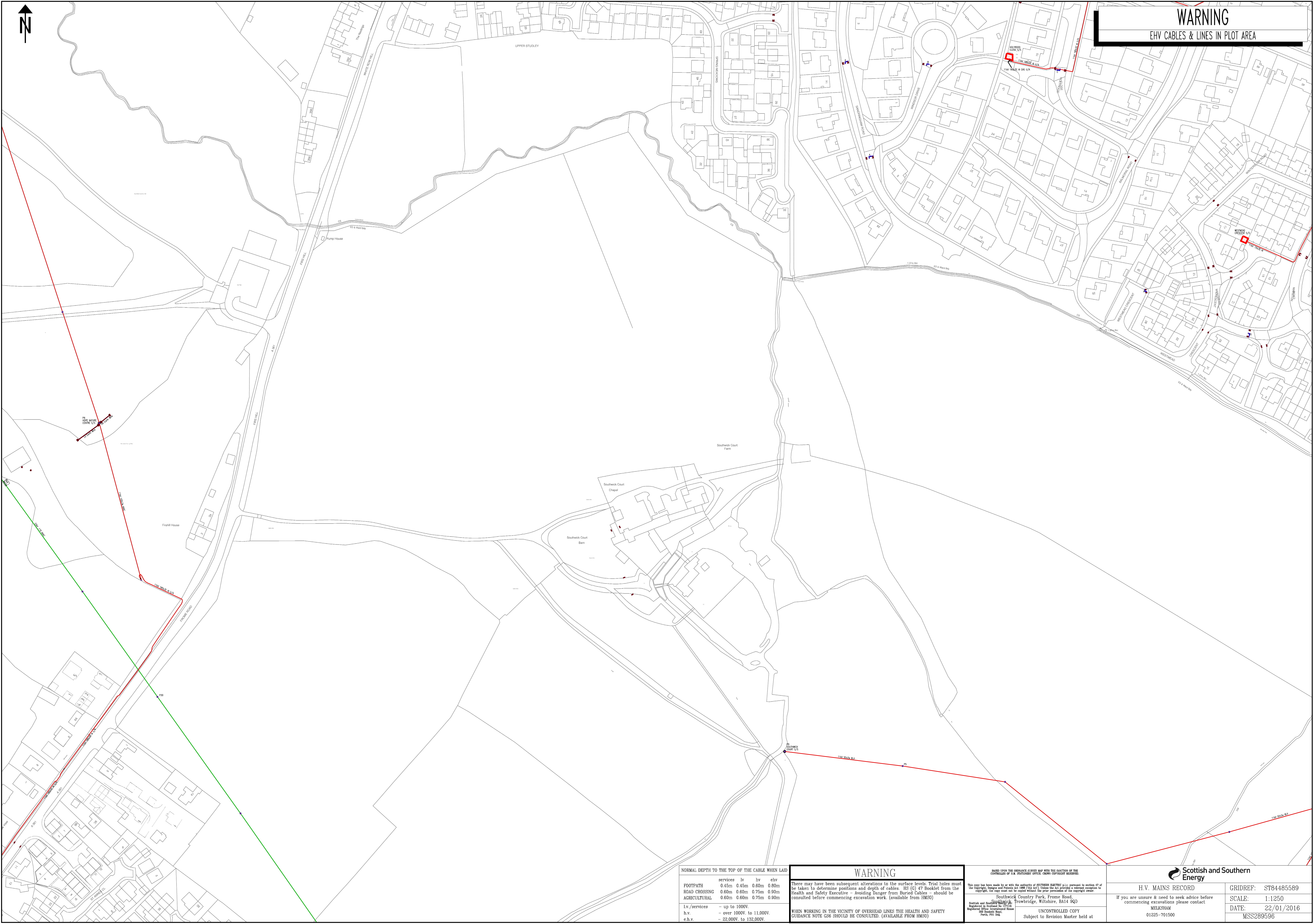
01225-701500

GRIDREF: ST84995557

SCALE: 1:1250

DATE: 22/01/2016

MSS289598



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

WARNING

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

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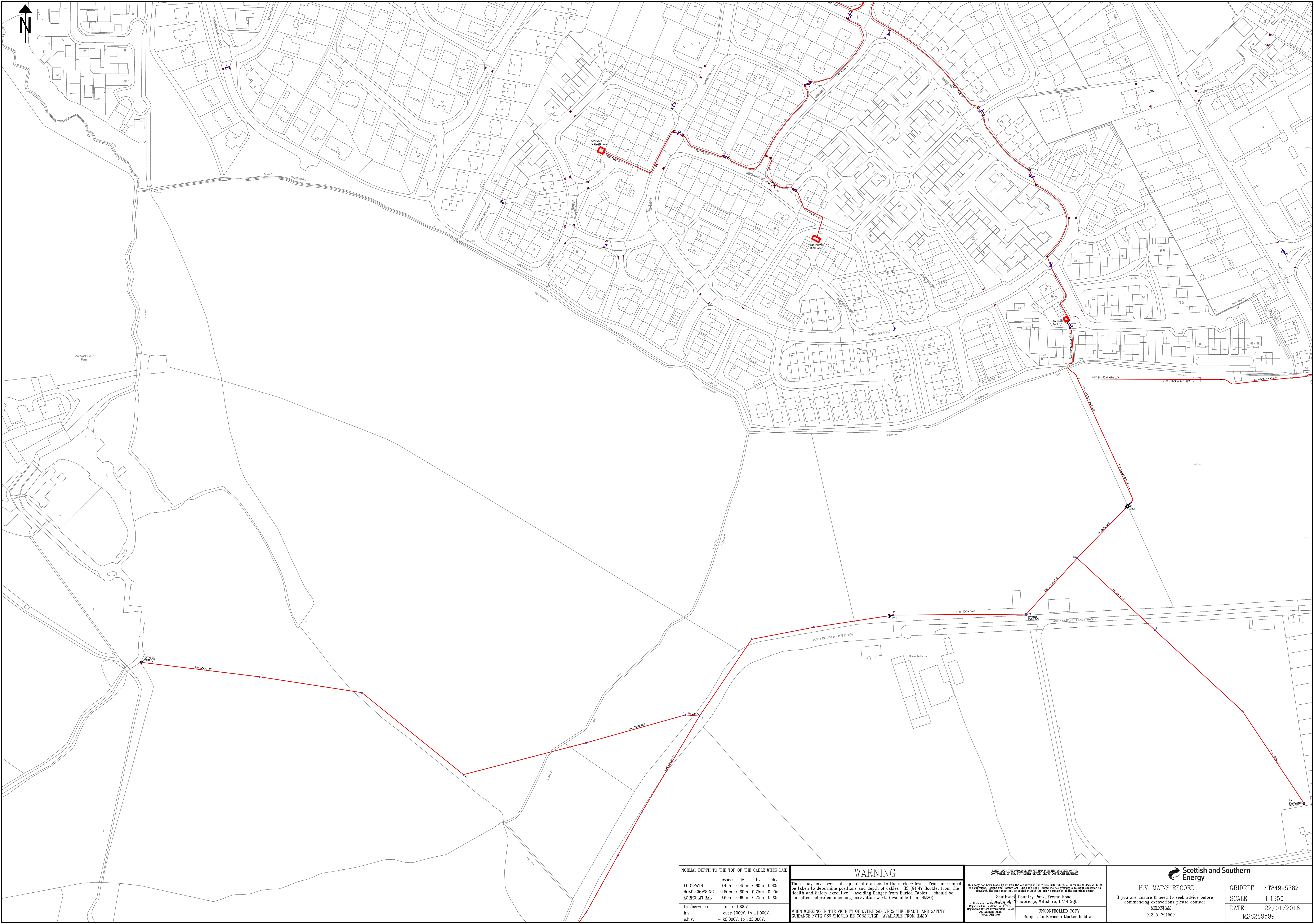
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NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	lv	hv	chv
FOOTPATH	0.45m	0.45m	0.60m	0.80m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
AGRICULTURAL	0.60m	0.60m	0.75m	0.90m
l.v./services	- up to 1000V.			
h.v.	- over 1000V. to 11.000V.			
e.h.v.	- 22.000V. to 132.000V.			

WARNING

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

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GRIDREF: ST84995582

SCALE: 1:1250

DATE: 22/01/2016

MSS289599



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	lv	hv	ehv
FOOTPATH	0.45m	0.45m	0.60m	0.80m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
AGRICULTURAL	0.60m	0.60m	0.75m	0.90m

l.v./services	- up to 1000V.
h.v.	- over 1000V. to 11,000V.
e.h.v.	- 22,000V. to 132,000V.

WARNING

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

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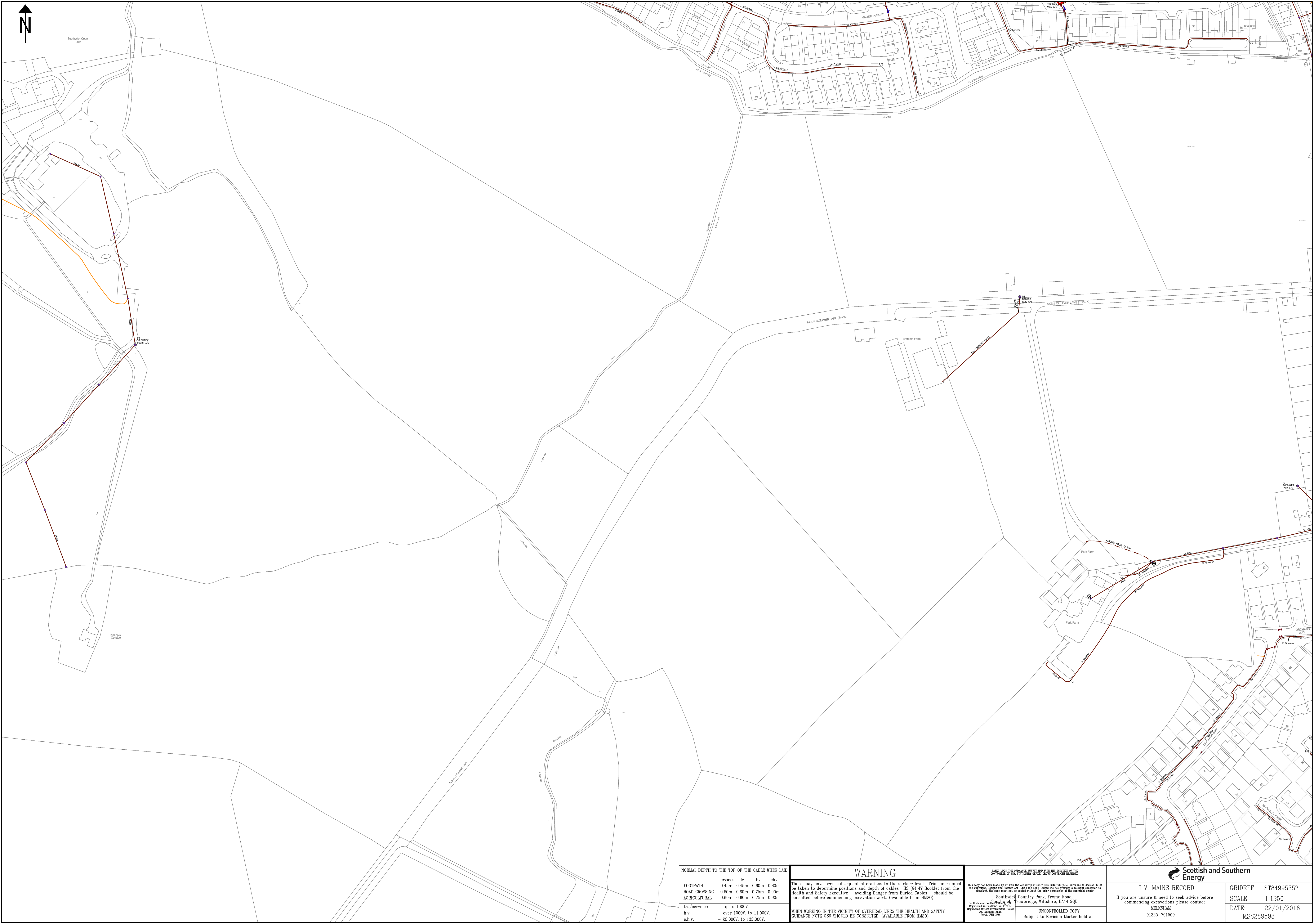
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GRIDREF: ST04485557

SCALE: 1:1250

DATE: 22/01/2016

MSS289597



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	lv	hv	chv
FOOTPATH	0.45m	0.45m	0.60m	0.80m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
AGRICULTURAL	0.60m	0.60m	0.75m	0.90m
l.v./services	- up to 1000V.			
h.v.	- over 1000V. to 11.000V.			
e.h.v.	- 22.000V. to 132.000V.			

WARNING

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

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE C58 SHOULD BE CONSULTED. (AVAILABLE FROM HMSO)

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Scottish and Southern Energy

L.V. MAINS RECORD

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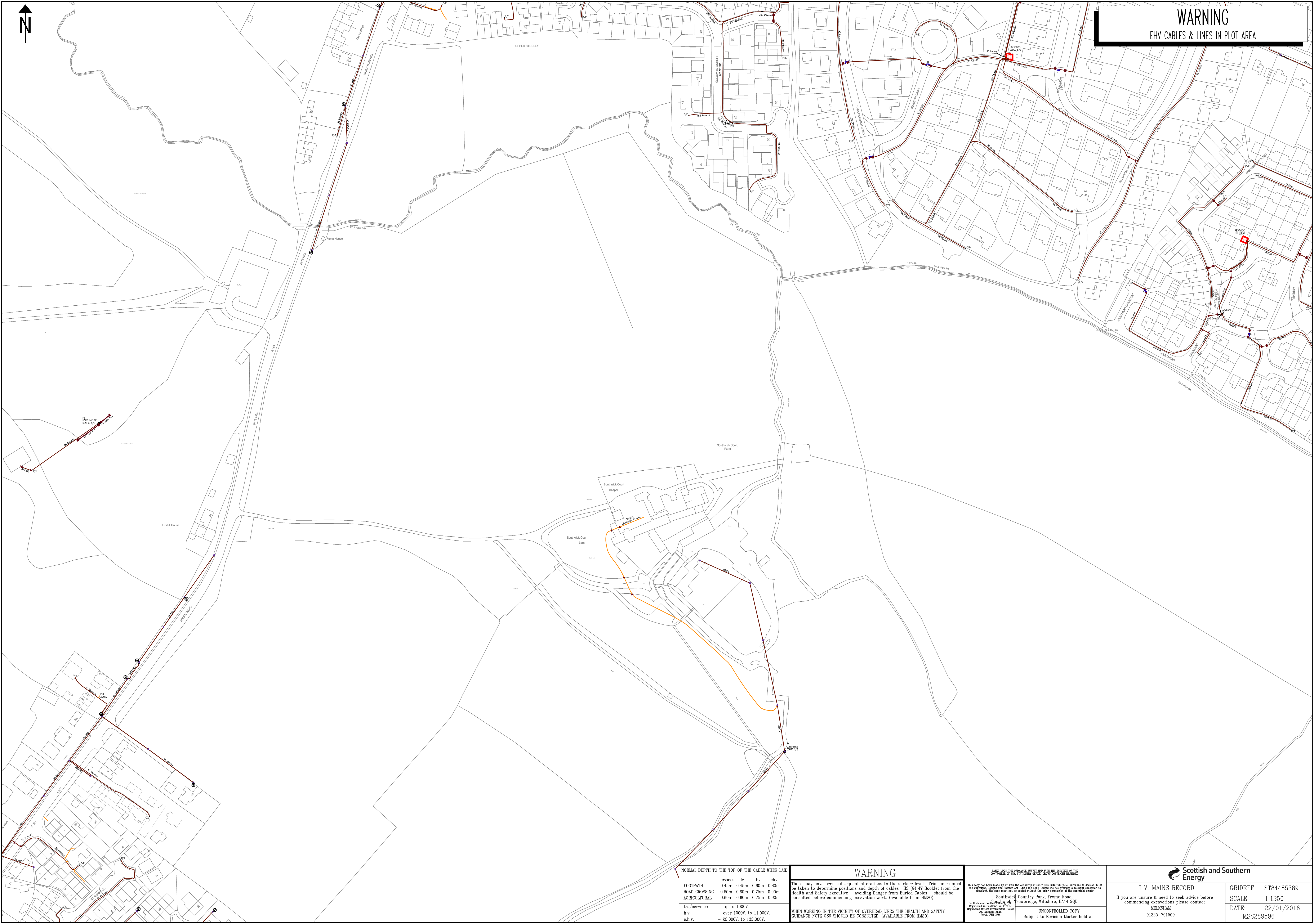
MELKSHAM
01225-701500

GRIDREF: ST84995557
SCALE: 1:1250
DATE: 22/01/2016
MSS289598



WARNING

EHV CABLES & LINES IN PLOT AREA



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID

	services	lv	hv	ehv
FOOTPATH		0.45m	0.45m	0.60m 0.80m
ROAD CROSSING		0.60m	0.60m	0.75m 0.90m
AGRICULTURAL		0.60m	0.60m	0.75m 0.90m
l.v./services	- up to 1000V.			
h.v.	- over 1000V. to 11,000V.			
e.h.v.	- 22,000V. to 132,000V.			

WARNING

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

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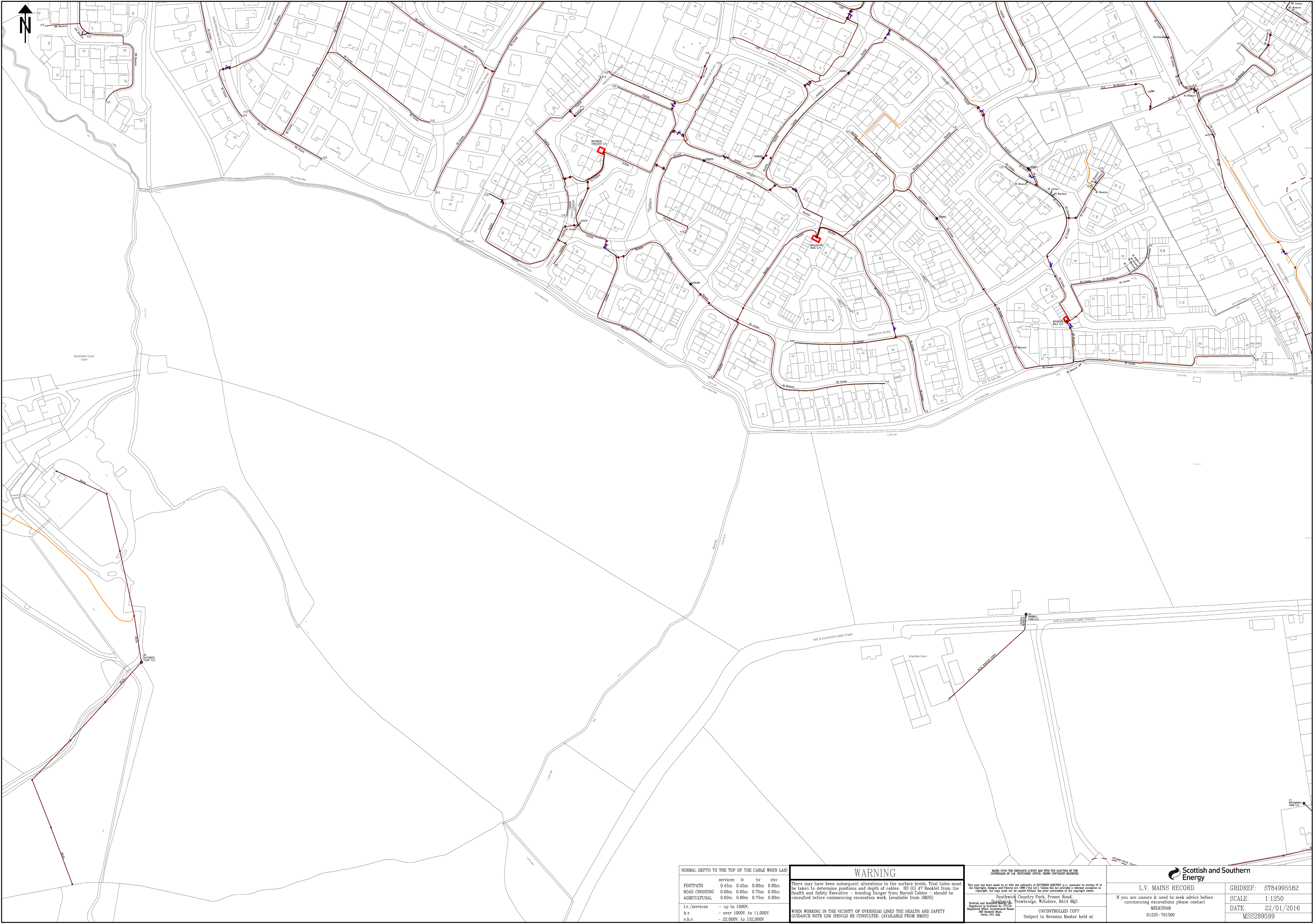
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DATE: 22/01/2016

MSS289596



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID			
	services	lv	h.v.
FOOTPATH	0.45m	0.45m	0.60m
ROAD CROSSING	0.60m	0.60m	0.75m
AGRICULTURAL	0.60m	0.60m	0.75m
l.v./services	- up to 1000V.		
h.v.	- over 1000V. to 11.000V.		
e.h.v.	- 22.000V. to 132.000V.		

WARNING

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

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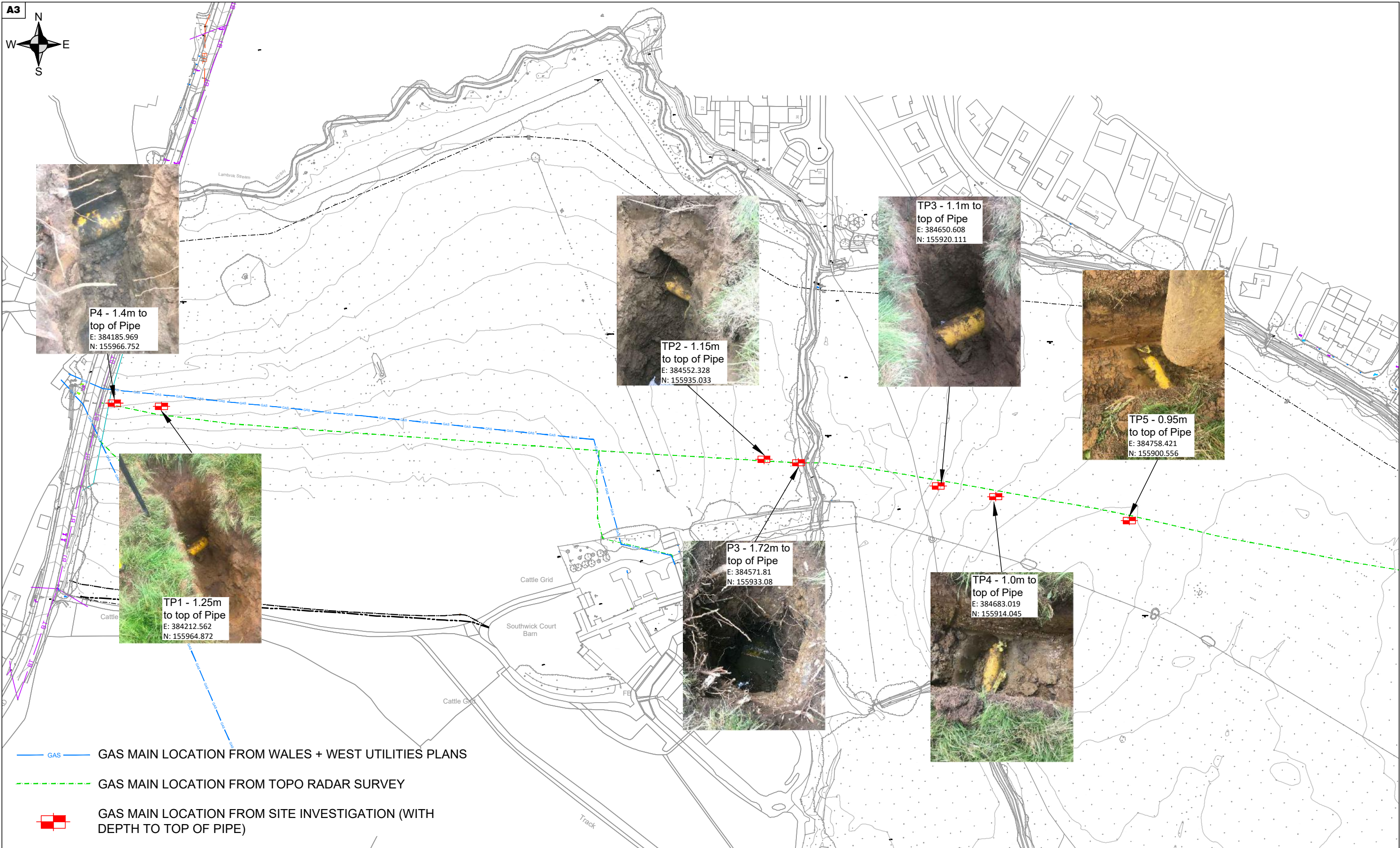
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MSS289599

GCE00644/ R2v6

Appendix K Gas Main Location Plan



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Job Title:
**Southwick
Trowbridge
Wiltshire**

Client:
Waddeton Park Ltd

Dwg Title:
**Gas Main
Locations**

Drawing Status
For Information

Scale 1:2000 at A3
Date May 2020
Drawn DLJ
Checked DLJ

Drawing no: **GCE00644-FigA**
Rev -