
Appendix B Sewer Records

Curtins Consulting Ltd

**51-55
Tithebarn Street,
Liverpool,
L2 2SB**

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: B071551
Our Ref: UUPS-ORD-118253
Date: 14/08/2019**

Dear Sirs

Location: West Cumberland Hospital

I acknowledge with thanks your request dated 13/08/2019 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.



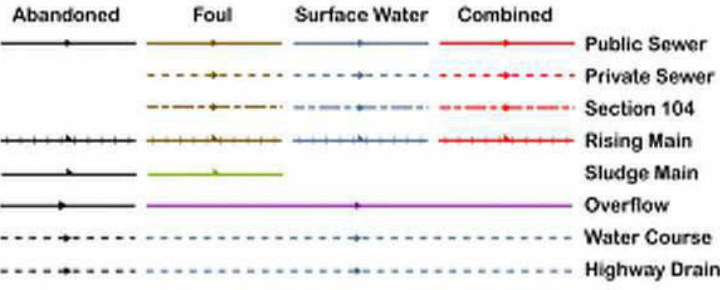
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Refno Cover Func Invert Size x Size y Shape Mat Length Grad

Refno Cover Func Invert Size x Size y Shape Mat Length Grad

LEGEND



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

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

MANHOLE FUNCTION

- FO Foul
- SW Surface Water
- CO Combined
- OV Overflow

SEWER SHAPE

- CI Circular
- EG Egg
- OV Oval
- FT Flat Top
- RE Rectangular
- SQ Square
- TR Trapezoidal
- AR Arch
- BA Barrel
- HO HorseShoe
- UN Unspecified

SEWER MATERIAL

- AC Asbestos Cement
- BR Brick
- PE Polyethylene
- RP Reinforced Plastic Matrix
- CO Concrete
- CSB Concrete Segment Bolted
- CSU Concrete Segment Unbolted
- CC Concrete Box Culverted
- PSC Plastic / Steel Composite
- GRC Glass Reinforced Plastic
- DI Ductile Iron
- PVC Polyvinyl Chloride
- CI Cast Iron
- SI Spun Iron
- ST Steel
- VC Vitrified Clay
- PP Polypropylene
- PF Pitch Fibre
- MAC Masonry, Coursed
- MAR Masonry, Random
- U Unspecified

Address or Site Reference:

West Cumberland Hospital,

OS sheet Number: NX9915NW
Scale: 1:1250 Date: 14/08/2019
Nodes: 0
Sheet: 1 of 5

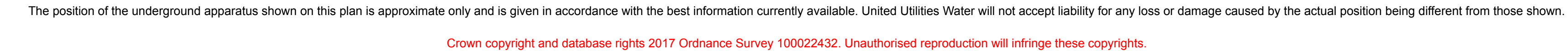
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SEWER RECORDS





LEGEND			
Abandoned	Foul	Surface Water	Combined
			Public Sewer
			Private Sewer
			Section 104
			Rising Main
			Sludge Main
			Overflow
			Water Course
			Highway Drain
All point assets follow the standard colour convention:			
red - combined		blue - surface water	
brown - foul		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		Change of Characteristic
	Drop Shaft		
	Orifice Plate		
MANHOLE FUNCTION			
	FO	Foul	
	SW	Surface Water	
	CO	Combined	
	OV	Overflow	
SEWER SHAPE			
CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		
SEWER MATERIAL			
AC	Asbestos Cement		
BR	Brick		
PE	Polyethylene		
RP	Reinforced Plastic Matrix		
CO	Concrete		
CSB	Concrete Segment Bolted		
CSU	Concrete Segment Unbolted		
CC	Concrete Box Culverted		
PSC	Plastic / Steel Composite		
GRC	Glass Reinforced Plastic		
DI	Ductile Iron		
PVC	Polyvinyl Chloride		
CI	Cast Iron		
SI	Spun Iron		
ST	Steel		
VC	Vitrified Clay		
PP	Polypropylene		
PF	Pitch Fibre		
MAC	Masonry, Coursed		
MAR	Masonry, Random		
U	Unspecified		
Address or Site Reference:			
West Cumberland Hospital,			
OS sheet NX9816SE			
Number:			
Scale:	1:1250	Date:	14/08/2019
Nodes:		346	
Sheet:		2 of 5	
Printed by: Property Searches			

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The diagram illustrates the spatial relationship between different water management systems. It is organized into four main horizontal categories: Abandoned, Foul, Surface Water, and Combined. Below these categories, specific infrastructure is identified: Public Sewer, Private Sewer, Section 104 (the study area), Rising Main, Sludge Main, Overflow, Water Course, and Highway Drain. The diagram uses colored lines (black, yellow, blue, red, green, purple, grey) and arrows to show the flow and location of these systems. For example, the Public Sewer is shown as a red line with arrows pointing right, while the Highway Drain is a grey line with arrows pointing left.

All point assets follow the standard colour convention:

red	combined	blue	surface water
brown	foul	purple	overflow

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

FO Foul
SW Surface Water
CO Combined
OV Overflow

CI	Circular	TR	Trapezoidal
EG	Egg	AR	Arch
OV	Oval	BA	Barrel
FT	Flat Top	HO	HorseShoe
RE	Rectangular	UN	Unspecified
SQ	Square		

AC	Asbestos Cement
BR	Brick
PE	Polyethylene
RP	Reinforced Plastic Matrix
CO	Concrete
CSB	Concrete Segment Bolted
CSU	Concrete Segment Unbolted
CC	Concrete Box Culverted
PS	Plastic / Steel Composite
GRC	Glass Reinforced Plastic
DI	Ductile Iron
PVC	Polyvinyl Chloride
CI	Cast Iron
SI	Spun Iron
ST	Steel
VC	Vitrified Clay
PP	Polypropylene
PF	Pitch Fibre
MAC	Masonry, Coursed
MAR	Masonry, Random
U	Unspecified

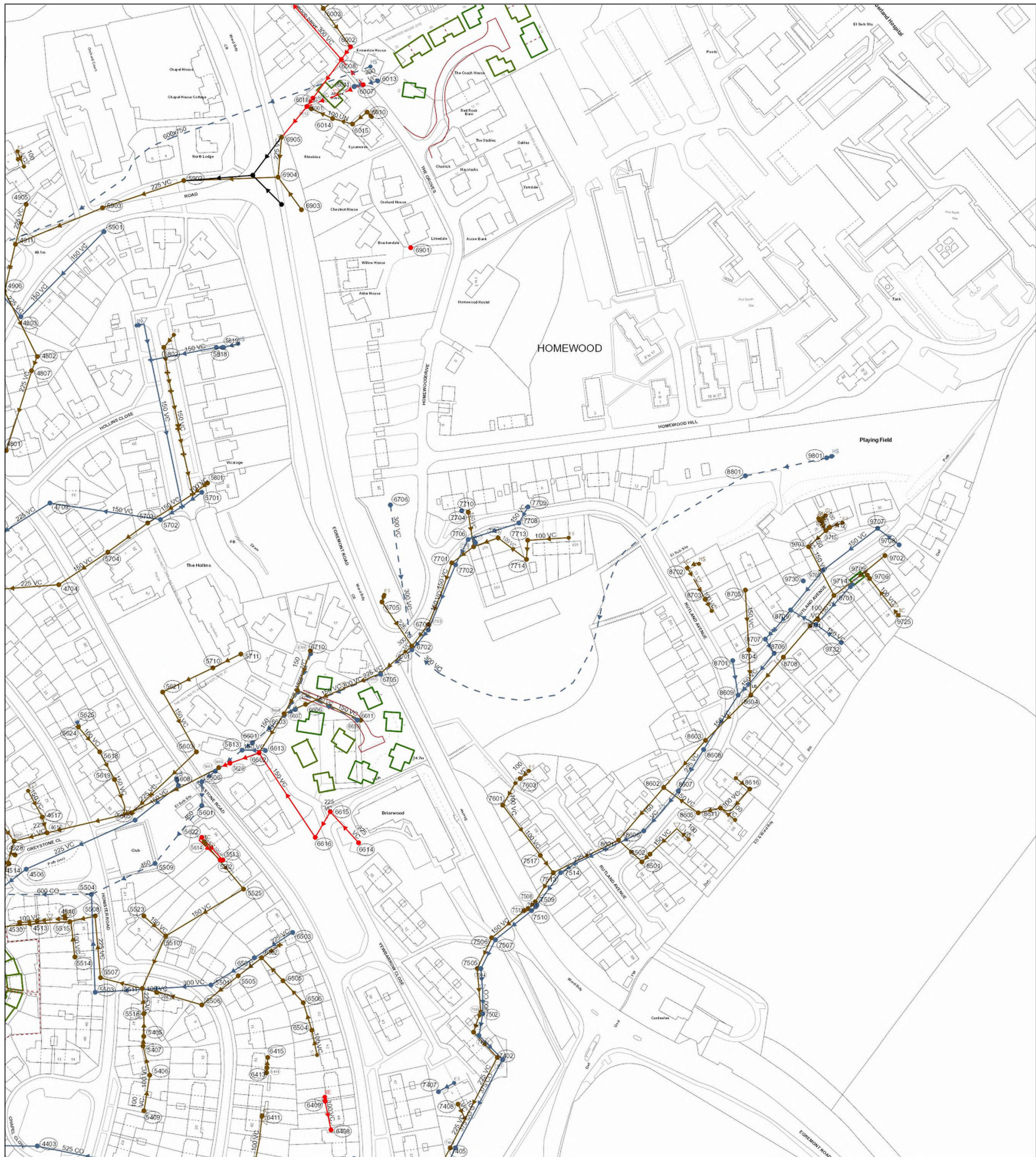
West Cumberland Hospital.

OS sheet	NX9916SW
Number:	
Scale: 1:1250	Date: 14/08/2019
Nodes:	87
Sheet:	3 of 5

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SEWER RECORDS





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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LEGEND

Abandoned

Foul

Surface Water

Combined

Public Sewer

Private Sewer

Section 104

Rising Main

Sludge Main

Overflow

Water Course

Highway Drain

All point assets follow the standard colour convention:

red - combined

blue - surface water

brown - foul

purple - overflow

MANHOLE FUNCTION

FO Foul

SW Surface Water

CO Combined

OV Overflow

SEWER SHAPE

CI Circular

EG Egg

OV Oval

FT Flat Top

RE Rectangular

SQ Square

TR Trapezoidal

AR Arch

BA Barrel

HO Horse Shoe

UN Unspecified

SEWER MATERIAL

AC Asbestos Cement

BR Brick

PE Polyethylene

RP Reinforced Plastic Matrix

CO Concrete

CSB Concrete Segment Bolted

CSU Concrete Segment Unbolted

CC Concrete Box Culverted

PSC Plastic / Steel Composite

GRG Glass Reinforced Plastic

DI Ductile Iron

PVC Polyvinyl Chloride

CI Cast Iron

SI Spun Iron

ST Steel

VC Vitreified Clay

PP Polypropylene

PF Pitch Fibre

MAC Masonry, Coursed

MAR Masonry, Random

U Unspecified

Address or Site Reference:

West Cumberland Hospital,

OS sheet

Number:

Scale: 1:1250

Date: 14/08/2019

Nodes: 250

Sheet: 4 of 5

Printed by: Property Searches

SEWER RECORDS

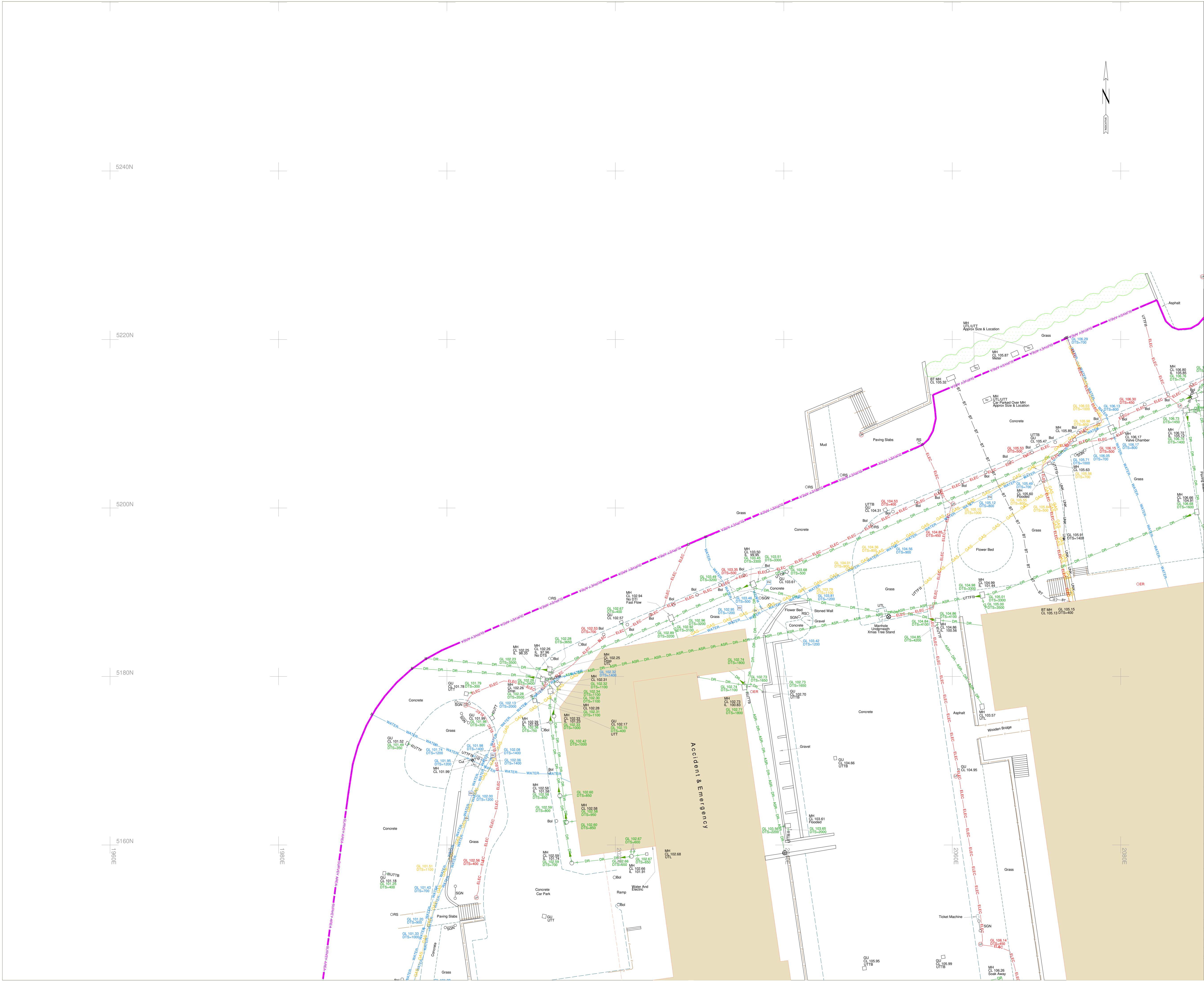
United Utilities

helping life flow smoothly



Refo	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
6305	FO	FO	100	100			VC	23.4878	
4530	FO	FO	100	100			VC	1.37528	
5311	FO	FO	100	100			VC	3.16278	1 in
7506	53.73	FO	50.38	150			VC	18.78529	1 in 10
7506	53.73	FO	50.38	150			VC	18.78529	1 in 10
6304	38.53	FO	37.56	150			VC	26.1725	1 in 40
6402	38.3	CO	36.86	375			CO	21.26029	1 in 19
7502	46.78	FO	45.75	150			VC	5.385165	1 in 5
6502	35.16	FO	34.06	225			VC	5.385165	1 in 5
6502	35.16	FO	34.06	225			VC	16.40122	1 in 4
5409	FO	FO	100	100			VC	20.01115	1 in 4
5302	29.44	FO	0	100			VC	20.01115	
6505	FO	FO	100	100			VC	17.31768	
5506	29.66	FO	27.86	225			VC	34.21954	1 in 71
5506	29.66	FO	27.86	225			VC	34.21954	1 in 71
6302	38.51	SW	37.54	150			VC	37.21559	1 in 64
7501	43.85	FO	43.31	225			VC	19.10421	1 in 50
7501	43.85	FO	43.31	225			VC	19.10421	1 in 50
4201	29.17	SW	27.42	225			VC	66.00758	1 in 106
5407	FO	FO	100	100			VC	5.308584	
5407	FO	FO	100	100			VC	5.308584	
5401	29.01	FO	27.31	225			VC	11.40175	1 in 190
5505	31.31	FO	30.28	225			VC	25.6125	1 in 11
5505	31.31	FO	30.28	225			VC	25.6125	1 in 11
4406	28.17	FO	26.77	225			VC	84.18548	1 in 15
5328	FO	FO	100	100			VC	11.40175	1 in
5304	29.85	SW	28.05	300			VC	31.40054	1 in 157
5306	30.29	FO	28.57	225			VC	32.31099	1 in 32
6401	39.85	SW	38.71	375			VC	27.65953	1 in 16
5305	29.37	SW	27.85	300			VC	49.25444	1 in 120
4405	28.95	FO	26.99	225			VC	20.12461	1 in 91
5308	29.14	SW	28.64	150			VC	45.22188	1 in 14802027
7509	56.55	SW	54.6	225			VC	4.24204	
5310	FO	FO	100	100			VC	18.27649	
4513	FO	FO	100	100			VC	9.620073	
4513	FO	FO	100	100			VC	9.620073	
5405	FO	FO	100	100			VC	12.36931	
5405	FO	FO	100	100			VC	12.36931	
7512	55.2	FO	54.3	150			VC	2.28098	
6503	40.08	SW	38.7	225			VC	25.23886	1 in 4
6503	40.08	SW	38.7	225			VC	25.23886	1 in 4
7403	43.85	SW	43.11	375			CO	18.38478	
7403	43.85	SW	43.11	375			CO	18.38478	
5303	29.33	SW	28.33	225			VC	28.16026	1 in 59
7404	41.83	SW	40.2	375			CO	16.65248	1 in 21
7404	41.83	SW	40.2	375			CO	16.65248	1 in 21
6414	FO	FO	100	100			VC	2.759144	
6414	FO	FO	100	100			VC	2.759144	
6406	37	FO	34.87	225			VC	33.06055	1 in 107
5503	28.97	SW	27.65	300			VC	54.03703	1 in 35
5503	28.97	SW	27.65	300			VC	54.03703	1 in 35
7408	FO	FO	100	100			VC	9.018431	
7408	FO	FO	100	100			VC	9.018431	
5518	FO	FO	0	225			VC	14.02667	
5518	FO	FO	0	225			VC	14.02667	
7402	44.28	FO	42.93	225			VC	56.35601	1 in 19
7402	44.28	FO	42.93	225			VC	56.35601	1 in 19
7405	41.74	FO	39.85	225			VC	25.94224	1 in 15
7405	41.74	FO	39.85	225			VC	25.94224	1 in 15
4204	29.01	FO	27.21	225			VC	47.92703	1 in 47
6404	39.84	FO	38.08	225			VC	24.89818	1 in 20
7507	53.73	SW	50.38	225			VC	17.88854	1 in 9
7507	53.73	SW	50.38	225			VC	17.88854	1 in 9
6306	FO	FO	100	100			VC	1.83614	
7401	45.32	SW	43.2	375			CO	55.47071	1 in 19
7401	45.32	SW	43.2	375			CO	55.47071	1 in 19
5510	FO	FO	0	150			VC	31.7805	
5510	FO	FO	0	150			VC	31.7805	
6303	36.1	FO	34.56	225			VC	47.20521	
5514	FO	FO	100	100			VC	19.99409	
5514	FO	FO	100	100			VC	19.99409	
6403	37.61	SW	35.72	375			CO	71.17584	1 in 11
5307	29.25	FO	27.55	225			VC	25.94224	1 in 108
5309	29.53	SW	28.56	225			VC	59.46428	1 in 52
5404	28.99	SW	27.44	325			CO	59.08921	1 in 42
6409	CO	CO	100	100			VC	16.23578	
6409	CO	CO	100	100			VC	16.23578	
5501	30.02	SW	28.22	300			VC	30.06659	
5501	30.02	SW	28.22	300			VC	30.06659	
5315	FO	FO	100	100			VC	2.951941	
6413	FO	FO	100	100			VC	5.739352	
6413	FO	FO	100	100			VC	5.739352	
5408	FO	FO	100	100			VC	16.51454	
5408	FO	FO	100	100			VC	16.51454	
7511	FO	FO	0	150			VC	23.43075	
7511	FO	FO	0	150			VC	23.43075	
6501	34.04	SW	32.84	225			VC	28.30194	1 in 6
6501	34.04	SW	32.84	225			VC	28.30194	1 in 6
7504	49.68	FO	48.48	150			VC	24.08319	1 in 9
7504	49.68	FO	48.48	150			VC	24.08319	1 in 9
4203	29.29	SW	28.09	150			VC	34.0147	
5408	FO	FO	100	100			VC	17.21699	
5525	FO	FO	0	150			VC	50.24038	
6504	FO	FO	100	100			VC	15.91971	
6504	FO	FO	100	100			VC	15.91971	
5314	FO	FO	100	100			VC	14.22171	
5520	28.75	FO	27.84	100			VC	1	
5520	28.75	FO	27.84	100			VC	1	
4403	27.81	SW	26.11	525			CO	64.00781	1 in 20
4403	27.81	SW	26.11	525			CO	64.00781	1 in 20
7505	49.67	SW	48.36	225			VC	12.04159	1 in 9
7505	49.67	SW	48.36	225			VC	12.04159	1 in 9
5523	FO	FO	0	150			VC	16.27882	
5523	FO	FO	0	150			VC	16.27882	
5301	29.85	FO	28.45	150			VC	11.40175	
5508	29.11	FO	27.01	225			VC	14.31762	
5508	29.11	FO	27.01	225			VC	14.31762	
5511	29.1	FO	0	225			VC	23.76973	
5511	29.1	FO	0	225			VC	23.76973	
6301	35.13	SW	33.66	225			VC	59.84146	1 in 11
5402	28.98	FO	27.25	225			VC	23.5372	1 in 91
6506	FO	FO	100	100			VC	16.48307	
6506	FO	FO	100	100			VC	16.48307	
7510	55.17	SW	0	225			VC	25.6125	
7510	55.17	SW	0	225			VC	25.6125	
6405	38.51	FO	36.74	225			VC	34.36568	1 in 18
6403	30.8	SW	29.16	450			CO	49.9102	1 in 28
5201	29.45	FO	27.83	225			VC	25.57066	
7503	46.78	SW	45.71	375			CO	12.16553	1 in 5
7503	46.78	SW	45.71	375			CO	12.16553	1 in 5
5507	28.95	FO	27.17	225			VC	34.1321	1 in 213
5507	28.95	FO	27.17	225			VC	34.1321	1 in 213

Refo	Cover	Func	Invert	Size x	Size y	Shape	Matl	Length	Grad
6305	FO	FO	100	100			VC	23.4878	
4530	FO	FO	100	100			VC	1.37528	
5311	FO	FO	100	100			VC	3.16278	1 in
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5302	29.44	FO	0	100			VC	20.01115	
6505	FO	FO	100	100			VC	17.31768	
5506	29.66	FO	27.86	225			VC	34.21954	1 in 71
5506	29.66	FO	27.86	225			VC	34.21954	1 in 71
6302	38.51	SW	37.54	150			VC	37.21559	1 in 64
7501	43.85	FO	43.31	225			VC	19.10421	1 in 50
7501	43.85	FO	43.31	225			VC	19.10421	1 in 50
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5505	31.31	FO	30.28	225			VC	25.6125	1 in 11
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5305	29.37	SW	27.85	300			VC	49.25444	1 in 120
4405	28.95	FO	26.99	225			VC		



LEGEND

COMMUNICATIONS	COMMS	OVERHEAD SERVICES	OHS
DRAINAGE	DR	OXYGEN	OXY
PRODUCT EFFLUENT	EFF	POWER CARRYING	ELEC
FIRE HYDRANT MAIN	FH	TRAFFIC SIGNAL LOOP	TSL
FUEL	FUEL	UNKNOWN SERVICE	UNK
GAS	GAS	11KV CABLES	11KV
MGR	MGR	33KV CABLES	33KV
MULTIPLE SERVICES	OL	WATER	WATER

ASSUMED ROUTE OF SERVICES
(Using interpretation of records and associated colour as above)

CONTRACTED SURVEY AREA
PREVIOUS SURVEY AREA

FENCE
PEDESTRIAN RAILING
CRASH BARRIER
HERAS (Temporary) FENCE

UNABLE TO TRACE FURTHER
UNABLE TO TRACE DUE TO BLOCKAGE
END OF TRACE
UNABLE TO LIFT (MVIC Cover)

INSPECTION COVER (Including Cover Level)
MANHOLE (rectangular) (Including Cover Level)
MANHOLE (triangular) (Including Cover Level)
MANHOLE (circular) (Including Cover Level)

BARRIER
BELISHA BEACON
BOLLARD
BRITISH TELECOMS MH
CABLE INTO GROUND
CABLE TV BOX
COLUMN
DISTRIBUTION BOARD (SYM)
EARTH ROD
ELECTRIC CABINET (size)
ELECTRIC POLE
ELECTRIC SIGN
FEEDER PILLAR
FIRE HYDRANT
GAS VALVE
JUNCTION BOX BT (size)
JUNCTION BOX COMMS (size)
JUNCTION BOX ELEC (size)

UTTF
GATE
EMBANKMENT
BUILDING (Part representation)
TREE
Spot Height
Depth to Top of Service (Ground Level in metres) (Depth in millimetres)
LAMP POST
PIPE DIAMETER (in millimetres)
FLOW DIRECTION
PIPE INTO GROUND
POST
RAIN WATER PIPE
ROAD SIGN
ROOFING EYE
SAPLING
SIGN POST
SURVEY STATION
STOP COCK
STOP COCK
TELEPHONE POLE
TRAFFIC BOLLARD
TRAFFIC LIGHT
VENT PIPE
WATER METER
WATER VALVE

GENERAL NOTES

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SHEET LAYOUT

01	02
03	04
05	06
	07

Rev	Notes	Drawn	Date
	Notes:		
	Grid Origin and Level Datum are referenced to Clients drawing "WCH TOPOSURVEY_revA.dwg" but has not been included in survey at clients request.		
	Important Note: Cross induction of gas and water throughout the entire site was experienced due to close proximity of these utilities.		

SUMO
Surveying Services

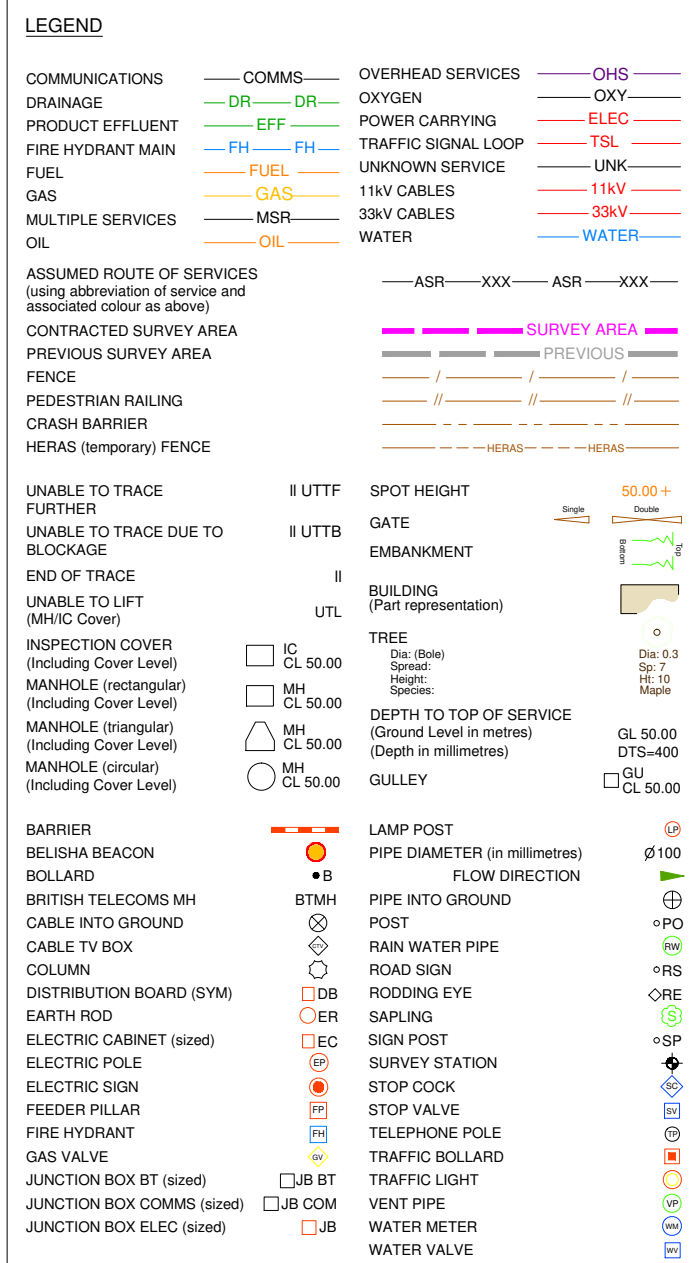
SUMO SERVICES Ltd
8 HAYWARD BUSINESS CENTRE
NEW LANE
HAYWANT
HAMPSHIRE
PO9 2NL
TEL: 0845 456 1104
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www.sumoservices.com

Title: Utilities & Topographical Details

Client: Laing O'Rourke

Project: West Cumberland Hospital

Date	Aug 2009	Post Code	CA28 8JG
Surveyed:	KHH, BH	Scale:	1/200 (A1 Sheet)
Drawn:	KHH, BH, JF		
Checked:	RS, MG, SF, DG		
Dwg No:	SOR633-01	Job No:	SOR000633
		Rev:	



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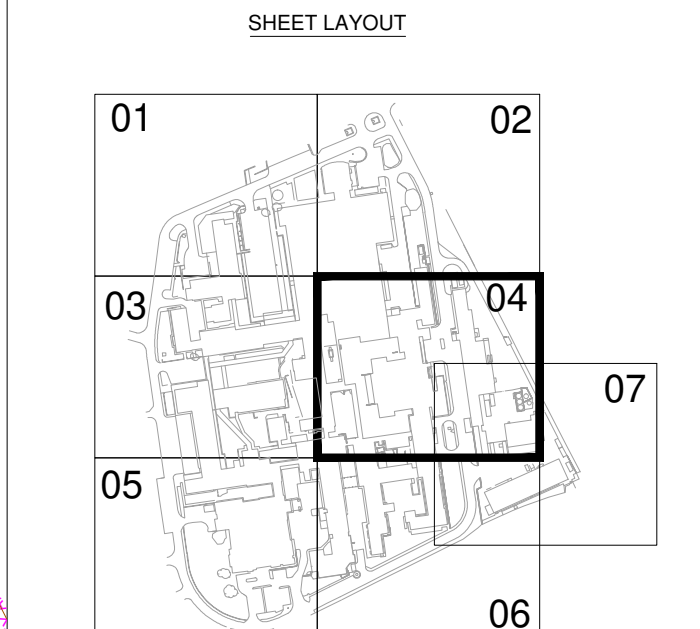
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Rev	Notes	Drawn	Date
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03			
04			
05			
06			
07			

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Checked: RS, MG, SF, DG	
Dwg No: SOR633-04	Job No: SOR000633
	Rev:





LEGEND

COMMUNICATIONS	OVERHEAD SERVICES	OHS
COMMS	OXYGEN	OXY
DR	POWER CARRYING	ELEC
EFF	TRAFIC SIGNAL LOOP	TSL
FH	UNKNOWN SERVICE	UNK
FUEL	11V CABLES	11V
GAS	33V CABLES	33V
MR	WATER	WATER
MULTIPLE SERVICES		

ASSUMED ROUTE OF SERVICES
PREVIOUS SURVEY AREA
CONTRACTED SURVEY AREA
SURVEY AREA
PREVIOUS SURVEY AREA
FENCE
PEDESTRIAN RAILING
CRASH BARRIER
HERAS (Temporary) FENCE

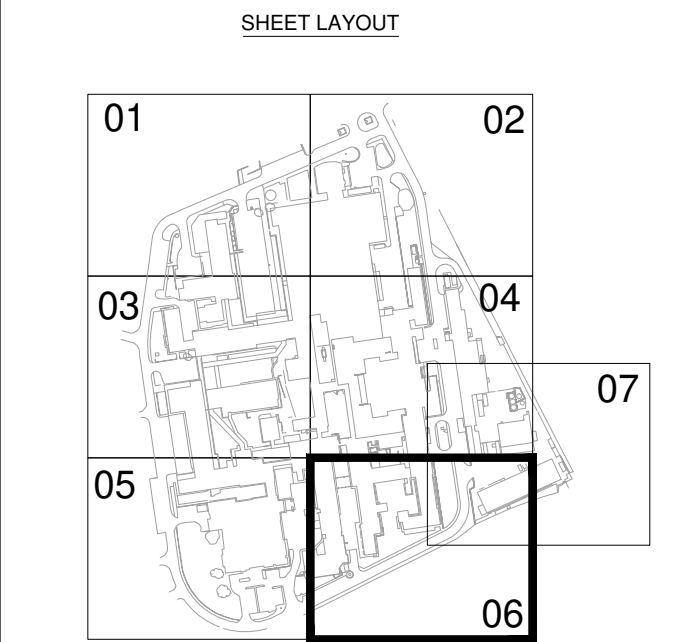
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FURTHER
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INSPECTION COVER
(Including Cover Level)
MANHOLE (rectangular)
(Including Cover Level)
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BARRIER
BELISHA BEACON
BOLLARD
BRITISH TELECOMS MH
CABLE INTO GROUND
CABLE TV BOX
COLUMNS
DISTRIBUTION BOARD (SWM)
EARTH ROD
ELECTRIC CABINET (sized)
ELECTRIC POLE
ELECTRIC SIGN
FEEDER PILLAR
FIRE HYDRANT
GAS VALVE
JUNCTION BOX BT (sized)
JUNCTION BOX COMMS (sized)
JUNCTION BOX ELEC (sized)

UTTF
SPOT HEIGHT
GATE
EMBANKMENT
BUILDING
(Part representation)
TREE
ON SITE
OFF SITE
DEPTH TO TOP OF SERVICE
(Depth in millimetres)
GULLY
LAMP POST
PIPE DIAMETER (in millimetres)
FLOW DIRECTION
PIPE INTO GROUND
POST
RAIN WATER PIPE
ROAD SIGN
ROOFING EYE
SAPLING
SIGN POST
SURVEY STATION
STOP COCK
STOP VALVE
TELEPHONE POLE
TRAFFIC BOLLARD
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Checked:	RS, MG, SF, DG		
Dwg No:	SOR633-06	Job No:	SOR000633
		Rev:	



HSE Guidelines - HSG47 Avoiding Danger from Underground Services

Figure 1 shows a 3x3 grid of maps. The maps are labeled 01 through 07. Map 07 is highlighted with a thick black border. The maps show the spatial distribution of the study area, with map 07 being the central focus.

CHANG-CHEN/ACCEPTED MANUSCRIPT



Dwg No.	Job No:	Rev:
SQB633-07		

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