United Utilites Water Limited
Property Searches
Ground Floor Grasmere House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP
DX 715568 Warrington
Telephone 0370 751 0101

Property.searches@uuplc.co.uk

Kier Services
Exchange Station
Tithebarn Street

Liverpool
L2 2QP

Your Ref: 1070133-HE
Our Ref: 14/ 1159055
Date: 26/11/2015

FAO:

Dear Sirs

Location: Heron Eccles Playing Field Green Leigh Road Liverpool L18 7HX

I acknowledge with thanks your request dated 24/11/15 for information on the location of our services.

Please find enclosed plans showing the approximate position of our 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 - Wastewater & Water Distribution Plans which are shown overleaf.

I also attach United Utilities' General Condition and Information sheets regarding United Utilities wastewater network and water distribution apparatus, which details contact numbers for additional services (i.e. new supplies, connections, diversions) which we are unable to deal with at this office. You should ensure that the Condition and Information sheets are made available to anyone carrying out any works which may affect our apparatus.

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

If you have any queries regarding this matter please telephone us on 0370 7510101.

Yours Faithfully,

S McManus.

Sue McManus
Operations Manager
Property Searches

UUWaterLimited 2014

United Utilities Water Limited
Registered in England & Wales No. 2366678
Registered Office: Haweswater House,
Lingley Mere Business Park, Lingley Green Avenue,
Great Sankey, Warrington, WA5 3LP

TERMS AND CONDITIONS - WASTERWATER & 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:

1. 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.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

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Conditions and Information regarding wastewater network

These general conditions and precautions apply to the wastewater network of United Utilities

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

1 United Utilities provides the approximate locations of its sewers according to its records. These records are not necessarily accurate or complete nor do they normally show the positions of every sewer culvert or drain, private connections from properties to the public sewers or the particulars of any private system. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated. The records do indicate the position of the nearest known public sewer from which the likely length of private connections can be estimated together with the need for any off site drainage rights or easements.

2 Special requirements relative to our sewers may be indicated. United Utilities employees or its contractors will visit any site at reasonable notice to assist in the location of its underground sewers and advise any precautions that may be required to obviate any damage. To arrange a visit or for further information regarding new supplies, connections, diversions, costing, or any notification required under these General Conditions, please call us on **0345 602 0406**.

3 Where public sewers are within a site which is to be developed and do not take any drainage from outside the area, they are from an operational viewpoint redundant. The developer must identify all redundant sewers affected by the development and apply to United Utilities in writing for these sewers to be formally closed. The developer shall bear all related costs of the physical abandonment work.

4 Public sewers within the site that are still live outside the area will be subject to a “Restricted Building zone”. This would normally be a surface area equivalent to the depth of the sewer measured from the centre line of the sewer on either side. No construction will be permitted within that zone. The developer should also note that deep and wide rooted trees must not be planted in close proximity to live sewers. Access to public sewers must be maintained at all times and no interference to manholes will be permitted during construction work.

5. Where there is a public sewer along the line of a proposed development/building, arrangements shall be made by the developer at his cost to divert the sewer around the development. Where this is not possible and as a last resort, a “Building Over Agreement” will need to be completed under section 18 of the Building Act 1984. The developer shall design building foundations to ensure that no additional loading is transferred to the sewer and submit such details both to the Local Authority’s Building Control Officer and to United Utilities for approval/acceptance. United Utilities on a rechargeable basis would normally undertake all aspects of design work associated with the diversion of any part of the operational wastewater network. For further advice please email wastewaterdeveloperservices@uuplc.co.uk

6. Where there is a non-main river watercourse/culvert passing through the site, the landowner has the responsibility of a riparian owner for the watercourse/culvert and is responsible for the maintenance of the fabric of the culvert and for all works involved in maintaining the unrestricted flow through it. Building over the watercourse/culvert is not recommended. The developer must contact the local authority before any works are carried out on the watercourse/culvert. Where it is necessary to discharge surface water from the site into the watercourse/culvert the developer shall make an assessment of the available capacity of the watercourse/culvert (based on a 1 in 50 year event) and ensure that the additional flow to be discharged into the watercourse/culvert will not cause any flooding. In appropriate cases, flooding may be prevented by on-site storage. The developer shall submit the relevant details required to substantiate his development proposals. Details of any outfall proposed shall also be submitted to the Environment Agency, PO Box 12, Richard Fairclough House, Knutsford Road, Warrington, Cheshire, WA4 1HT for their approval.

7. Where there is a main river watercourse/culvert passing through the site, the developer shall submit all proposals affecting the river to the Environment Agency at the address stated in paragraph 6 for approval/acceptance.

United Utilities Water Limited 2015
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8. Your attention is drawn also to the following:

Private drains or sewers which may be within the site.

On 1 October 2011 all privately owned sewers and lateral drains which communicate with (that is drain to) an existing public sewer as at 1 July 2011 will become the responsibility of the sewerage undertaker. This includes private sewers upstream of pumping stations that have yet to transfer, but excludes lengths of sewer or drain that are the subject of an on-going appeal or which have been excluded from transfer as a result of an appeal or which are on or under land opted-out by a Crown body. The transfer specifically excludes sewers and lateral drains owned by a railway undertaker. Sewers upstream of such assets, however, are transferred. Such assets may not be recorded on the public sewer record currently as it was not a requirement to keep records of previously private sewers and drains.

Applications to make connections to the public sewer.

The developer must write to United Utilities requesting an application form that must be duly completed and returned. No works on the public sewer shall be carried out until a letter of consent is received from United Utilities.

Sewers for adoption If an agreement for the adoption of sewers under Section 104 of the Water Industry Act 1991 is being contemplated, a submission in accordance with “Sewers for Adoption”, Seventh Edition, published by the Water Research Centre (2001) Plc, Henley Road, Medmenham, PO Box 16, Marlow, Buckinghamshire, SL7 2HD will be required, taking into consideration any departures from the general guide stipulated by United Utilities.

Further consultation with United Utilities.

Developers wishing to seek advice or clarification regarding sewer record information provided should contact United Utilities to arrange an appointment. A consultation fee may be charged, details of which will be made available at the time of making an appointment.

9. Combined sewers, foul sewers, surface water sewers, and pumped mains. These are shown separately in a range of colours or markings to distinguish them on our drawings, which are extracts from the statutory regional sewer map. A legend and key is provided on each extract for general use, although not all types of sewer will be shown on every extract.

Combined sewers shown coloured red carries both surface water and foul sewage, especially in areas where there is no separate surface water sewerage system.

Foul sewers coloured brown may also carry surface water and there may be no separate surface water system indicated in the immediate area. Both combined and foul sewers carry wastewater to our treatment works before it can safely be returned to the environment.

Surface water sewers coloured blue on our drawings are intended only to carry uncontaminated surface water (e.g. rainfall from roofs, etc) and they usually discharge into local watercourses. It is important for the protection of the environment and water quality that only uncontaminated surface water is connected to the surface water sewers. Improper connections to surface water sewers from sink wastes, washing machines and other domestic use of water can cause significant pollution of watercourses.

Pumped mains, rising mains and sludge mains will all be subject to pumping pressures and are neither suitable nor available for making new connections.

Highway drains, when included, show as blue and black dashed lines. Highway drains are not assets belonging to United Utilities and are the responsibility of local authorities.

1. For information regarding future proposals for construction of company apparatus please write to United Utilities, PO Box 453, Warrington, WA5 3QN.
2. For information regarding easements, deeds, grants or wayleaves please write to United Utilities Property Solutions, Coniston Buildings, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington, WA5 3UU **Tel: 01925 731 365**

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WASTE WATER SYMBOLOGY

Foul	Surface	Combined	Overflow	
				Manhole
				Manhole, Side Entry
				MainSewer, Public
				MainSewer, Private
				MainSewer, S104
				Rising Main, Public
				Rising Main, Private
				Rising Main, S104
				Highway Drain, Private

Overflow

- Sludge Main, Public
- Sludge Main, Private
- Sludge Main, S104

Abandoned Pipe

- MainSewer
- Rising Main
- Highway Drain
- Sludge Main

Foul	Surface	Combined	
ST		ST	Septic Tank
			Vent Column
			Network Storage Tank
			Orifice Plate
			Vortex Chamber
			Penstock Chamber
			Blind Manhole

Foul	Surface	Combined	Overflow	
				Screen Chamber
				Discharge Point
				Outfall

- Control Kiosk
- Unspecified

Foul	Surface	Combined	
			WW Site Termination
AV	AV	AV	Air Valve
CA	CA	CA	Cascade
NRV	NRV	NRV	Non Return Valve
ES	ES	ES	Extent of Survey
FM	FM	FM	Flow Meter
GU	GU	GU	Gulley
HA	HA	HA	Hatch Box
HS	HS	HS	Head of System
HY	HY	HY	Hydrobrake / Vortex
IN	IN	IN	Inlet
IC	IC	IC	Inspection Chamber
			Bifurcation
CA	CA	CA	Catchpit
			WW Pumping Station

Foul	Surface	Combined	
			Sludge Pumping Station
		V	Sewer Overflow
			T Junction/Saddle
LH	LH	LH	LampHole
OI	OI	OI	OilInterceptor
PE	PE	PE	PenStock
			Pump
RE	RE	RE	RoddingEye
	SO	SO	Soakaway
SM	SM	SM	Summit
VA	VA	VA	Valve
VC	VC	VC	Valve Chamber
WO	WO	WO	Washout Chamber
DS	DS	DS	DropShaft
WTW		WWTW	WW Treatment Works

Legend

MANHOLE FUNCTION		SEWER SHAPE			
FO	Foul	CI	Circular	TR	Trapezoidal
SW	Surface Water	EG	Egg	AR	Arch
CO	Combined	OV	Oval	BA	Barrel
OV	Overflow	FT	Flat Top	HO	HorseShoe
		RE	Rectangular	UN	Unspecified
		SQ	Square		

SEWER MATERIAL			
AC	Asbestos Cement	DI	Ductile Iron
BR	Brick	VC	Vitrified Clay
CO	Concrete	PP	Polypropylene
CSB	Concrete Segment	PF	Pitched Fibre
CSU	Concrete Segment	MA	Masonry, Coursed
CC	Concrete Box Culverted	MA	Masonry, Random
PSC	Plastic / Steel	RP	Reinforced Plastic
GR	Glass Reinforced	CI	Cast Iron
GRP	Glass Reinforced	SI	Spun Iron
PVC	Polyvinyl Chloride	ST	Steel
PE	Polyethylene	U	Unspecified

CLEAN WATER SYMBOLOGY

PIPE WORK

Live	Proposed	
		Trunk Main - PressurisedMain
		Raw Water Aqueduct - PressurisedMain
		Raw Water Aqueduct - GravityMain
		LDTM Raw Water Distribution - PressurisedMain
		LDTM Raw Water Distribution - GravityMain
		LDTM Treated Water Distribution - PressurisedMain
		LDTM Treated Water Distribution - GravityMain
		Private Pipe - LateralLine
		Distribution Main - PressurisedMain
		Comms Pipe - LateralLine
		Concessionary Service - LateralLine

ABANDONED PIPE

- Trunk Main
- Raw Water Aqueduct
- LDTM Raw Water Distribution
- LDTM Treated Water Distribution
- Private Pipe
- Distribution Main
- Comms Pipe
- Concessionary Service

NODES/FURNITURES

Live	Proposed	
		End Cap
		CC Valve
		AC Valve
		Air Valve
		Sluice Valve
		Non Return Valve
		Pressure Management Valve
		Change of Characterstic
		Anode
		Chlorination Point
		De Chlorination Point
		Bore Hole
INLET	Inlet	Inlet Point
		Bulk Supply Point
FH	FH	Fire Hydrant
H	H	Hydrant

Live	Proposed	
PFH	PFH	Private Fire Hydrant
		Pump
		Site Termination
		Service Start
		Service End
PM	PM	Process Meter
		Stop Tap
		Monitor Location
SP	SP	Strainer Point
AP	AP	Access Point
HB	HB	Hatch Box
IP	IP	IP Point
RM		Route Marker
SPT	SPT	Sampling Station
LB	LB	Logger Box

PROPERTY TYPES

Live	Proposed	
		Condition Report
PB	PB	Pipe Bridges
PT	PT	Tunnels (non carrier)
		Pumping Station
		Water Treatment Works
		Private Treatment Works

Live	Proposed	
VH	VH	Valve House
		Water Tower
SR	SR	Service Reservoir
SR	SR	Supply Reservoir
Inlet AP	Inlet AP	Abstraction Point
M	M	Domestic meter
CM	CM	Commercial meter
T	T	Telemetry Outstation

Legend

MATERIAL TYPES		LINING TYPES	
AC	ASBESTOS CEMENT	CL	CEMENT LINING
CI	CAST IRON	TB	TAR OR BITUMEN
CU	COPPER	ERL	EPOXY RESIN
CO	CONCRETE		
DI	DUCTILE IRON	INSERTION TYPES	
GI	GALVANISED IRON		
GR	GREY IRON	DD	DIE DRAWN
OT	OTHERS	DR	DIRECTIONAL DRILLING
PB	LEAD	MO	MOLING
PV	uPVC	PI	PIPELINE
SI	SPUN IRON	SL	SLIP LINED
ST	STEEL		
UN	UNKONWN		
PE	POLYETHYLENE		

Refno	Cover	Func	Invert	Size.x	Size.y	Shape	Matl	Length	Grad
0501	40.08	CO							
0801	43.65	CO							
0803	39.59	CO							
0901	50.17	CO							
0902	47.17	CO							
0903	43.12	CO							
1501	36.18	CO							
1602	34.88	CO							
1603	34.05	CO							
1701	35.25	CO	33.4	100		CI	VC	39.4	72
1702	36.56	CO							
1801	40.19	CO							
1901	38.82	CO							
1903	37.34	CO							
1904	38.06	CO							
1905	38.13	CO							
1907	37.87	CO							
2501	31.82	CO							
2502	31.85	CO							
2504	31.8	CO							
2505		CO							
2506		CO							
2601	32.29	CO							
2602	31.88	CO							
2603	32.18	CO							
2604	32.06	CO							
2605	32.06	CO							
2701	34.1	CO							
2702	33.03	CO							
2703	32.95	CO							
2704	32.46	CO							
2705	32.53	CO	30.74	225		CI	VC	47.36	48
2801	36.34	CO							
2802	34.23	CO							
2803	35.89	CO							
2804	36.04	CO							
2805	34.24	CO							
2902	36.78	CO							
2904	36.82	CO							
2905	36.17	CO	33.95	225		CI	VC	30.46	85
2906	36.69	CO							
3501	32.95	CO							
3502	33.69	CO							
3601	32.68	CO	29.33	300		CI	VC	27.73	87
3602	32.62	CO							
3603	32.23	CO							
3604	33.81	CO							
3702	34.69	CO							
3704	34.59	CO							
3801	33.31	CO	31.47	250		CI	BR	6.32	632
3802	33.39	CO							
3901		CO							
3902	34.83	CO	33.26	225		CI	VC	66.71	62
3903	34.14	CO	32.27	225		CI	VC	22.85	
3904	33.49	CO	31.91	225		CI	VC	45.22	26
4502	34.28	CO							
4504	34.68	CO							
4701	35.7	CO	34.03	225		CI	VC	45.28	23
4801	34.15	CO							
4802	33.78	CO							
4803	34.6	CO	32.9	225		CI	VC	47.41	28
4901	33.92	CO							
4902	34.26	CO							
4904	34.15	CO	32.53	150		CI	VC	3.61	
4905	34.53	CO	33.33	225		CI	VC	34.93	87
4906	34.14	CO	33.25	150		CI	VC	3.61	
4907	34.32	CO							
4908	34.59	CO							
4911	34.3	CO							
0905		CO							
0906		CO							
1703		CO	32.85	225		CI	VC	38.08	71
1704		CO							
1803		CO	33.11	184	139	EG	VC	42.54	9
1806		CO							
1903		CO							
1906		CO							
2610		CO							
2611		CO							
2807		CO	31.06	225		CI	VC	3.61	
2907		CO							
4505		SW							
4507		SW							
4508		CO							
4509		CO							
4510		CO							
4511		SW							
4512		SW							
4800		CO	0	225		CI	VC	11.19	
0802		CO							
0904		CO							
1502		CO							
1601		CO							
1604		CO							
1705		CO							
1802		CO							
2507		CO							
2606		CO							
2607		CO							
2608		CO							
2612		CO							
2706		CO							
2707		CO							
2806		CO							
3605		CO							
3701		CO							
3703		CO							
4501		CO							
4503		CO							
4601		CO							
4903		CO							
4910		CO							
4912		CO							
4913		CO							

WASTE WATER SYMBOLOGY

Foul Surface Combined Overflow

- Manhole
- Manhole, Side Entry
- MainSewer, Public
- MainSewer, Private
- MainSewer, S104
- Rising Main, Public
- Rising Main, Private
- Rising Main, S104
- Highway Drain, Private

Foul Surface Combined

- WW Site Termination
- Air Valve
- Cascade
- Non Return Valve
- Extent of Survey
- Flow Meter
- Gulley
- Hatch Box
- Head of System
- Hydrobrake / Vortex
- Inlet
- Inspection Chamber
- Bifurcation
- Catchpit
- Contaminated Surface Water
- WW Pumping Station
- Sludge Pumping Station
- Sewer Overflow
- TJunction/Saddle
- LampHole
- OilInterceptor
- PenStock
- Pump
- RoddingEye
- Soakaway
- Summit
- Valve
- Valve Chamber
- Washout Chamber
- DropShaft
- WW Treatment Works
- Septic Tank
- Vent Column
- Network Storage Tank
- Orifice Plate
- Vortex Chamber
- Penstock Chamber
- Blind Manhole

Foul Surface Combined Overflow

- Screen Chamber
- Discharge Point
- Outfall

- Sludge Main, Public
- Sludge Main, Private
- Sludge Main, S104

ABANDONED PIPE

- MainSewer
- Rising Main
- Highway Drain
- Sludge Main

- Control Kiosk
- Unspecified

LEGEND

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

The position of underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available.
The actual positions may be different from those shown on the plan and private pipes, sewers or drains may not be recorded.
United Utilities will not accept any liability for any damage caused by the actual positions being different from those shown.

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OS Sheet No: SJ3986NW
Scale: 1: 1250 Date: 26/11/2015
114 Nodes
Sheet 1 of 1

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SEWER RECORDS

OS Sheet No: SJ3986NW

Scale: 1: 1250 Date: 26/11/2015

Printed By: Property Searches

Refno	Cover	Func	Invert	Size.x	Size.y	Shape	Matl	Length	Grad
5701	34.77	CO							
5801	34.63	CO							
5802	34.34	CO							
5901	35.61	CO							
5902	36	CO							
5903	34.73	CO	33.08	225		CI	VC	62.18	99
6801	35.96	CO	34.41	225		CI	VC	56.82	47
6802	34.73	CO							
6803	36.04	CO	34.57	225		CI	VC	68.43	109
6901	36.61	CO	35	225		CI	VC	30.02	26
6902	36.3	CO							
6907		CO							
6908		CO							
7801	36.63	CO							
7901	37.03	CO	32.84	375		CI	CO	112.36	362
7902		CO		150		CI	VC	30.97	
7903		CO							
7904		CO							
8701	36.49	CO	34.89	225		CI	VC	71.34	140
8702	35.98	CO							
8801	36.46	CO							
8802	36.05	CO							
8803	36.75	CO							
8804	36.33	CO							
8805		CO	0	225		CI	VC	47.41	
8806		CO		150		CI	VC	13.38	
8809		CO							
8810		CO							
8811		CO							
8812		CO							
8901	36.67	CO	35.2	225		CI	VC	25.81	112
8902	36.54	CO							
8903	36.67	CO	35.17	225		CI	VC	24.19	97
9501	34.6	CO							
9502	36.28	CO	0	225		CI	VC	86.61	
9601	36.7	CO							
9602	36.88	CO							
9603	35.66	CO	34.19	225		CI	VC	98.23	99
9701	37.1	CO							
9703	37.18	CO	35.74	225		CI	VC	84.34	50
9704		CO							
9801	37.56	CO							
9802	37.41	CO							
9803	37.76	CO	36.19	225		CI	VC	63.07	64
9804	36.49	CO							
9805	36.92	CO							
9901	37.21	CO							
9902	37.44	CO							
5904		SW							
6903		SW							
6910		SW							
6911		SW							
8807		CO		100		CI		6.13	
9807		CO							
9808		CO							
9809		SW							
9810		CO							
9904		CO							
9905		CO							
6909		CO							
7905		CO							
8813		CO							
9604		CO							
9700		CO							
9806		CO							
9900		CO							
9903		CO							
9906		CO							
9907		CO							

OS Sheet No: SJ3986NE

Scale: 1: 1250 Date: 26/11/2015

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WASTE WATER SYMBOLOGY

Foul Surface Combined Overflow

Manhole
Manhole, Side Entry
MainSewer, Public
MainSewer, Private
MainSewer, S104
Rising Main, Public
Rising Main, Private
Rising Main, S104
Highway Drain, Private

Foul Surface Combined

WW Site Termination
Air Valve
Cascade
Non Return Valve
Extent of Survey
Flow Meter
Gulley
Hatch Box
Head of System
Hydrobrake / Vortex
Inlet
Inspection Chamber
Bifurcation
Catchpit
Contaminated Surface Water
WW Pumping Station
Sludge Pumping Station
Sewer Overflow
T Junction/Saddle
LampHole
OilInterceptor
PenStock
Pump
RoddingEye
Soakaway
Summit
Valve
Valve Chamber
Washout Chamber
DropShaft
WW Treatment Works
Septic Tank
Vent Column
Network Storage Tank
Orifice Plate
Vortex Chamber
Penstock Chamber
Blind Manhole
Screen Chamber
Discharge Point
Outfall

Sludge Main, Public
Sludge Main, Private
Sludge Main, S104

ABANDONED PIPE

MainSewer
Rising Main
Highway Drain
Sludge Main

Control Kiosk
Unspecified

LEGEND

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 Concrete
GRP 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

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69 Nodes
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SEWER RECORDS

Refno	Cover	Func	Invert	Size.x	Size.y	Shape	Matl	Length	Grad
0001	30.31	CO							
0002	29.91	CO							
0003	30.16	CO							
0005		CO	0	225		CI	VC	36.8	
0008		CO							
0101	34.22	CO							
0102	35.84	CO							
0103	32.48	CO							
0104	33.16	CO							
0201	34.56	CO							
0202	37.05	CO	35.43	225		CI	VC	69.26	30
0301	36.99	CO							
0302	40.21	CO	38.1	225		CI	VC	68.26	27
0401	39.3	CO							
0402	42.87	CO	40.97	225		CI	VC	63.39	19
1001	28.03	CO	24.97	225		CI	VC	70.46	79
1002	29.86	CO							
1003	30.06	CO							
1101	32.35	CO							
1102	30.98	CO							
1202	32.2	CO							
1203		CO							
1301	31.17	CO							
1302	33.83	CO							
1401	35.78	CO							
1402	34.17	CO	32.56	225		CI	VC	46.58	
2001	28.91	CO							
2002	28.92	CO							
2003	28.92	CO							
2004	29.38	CO							
2006	28.28	CO							
2103	30.39	CO							
2201	30.29	CO							
2202		CO							
2203	29.67	CO							
2204	29.74	CO							
2205	30.16	CO							
2207	30.48	CO							
2210	30.24	CO	25.9	450		CI	VC	2.24	0
2301	31.21	CO							
2304	31.22	CO							
2305		CO							
2306	30.99	CO							
2307	33.31	CO							
2308	34.1	CO							
2313	30.99	CO	26.53	450		CI	VC	11.05	
2317		CO							
2321		CO							
2401	31.21	CO							
2402	31.48	CO							
2403	31.48	CO							
2404	31.7	CO							
2406		CO							
2407	31.45	CO							
2408		CO							
2409	31.3	CO							
3001	30.26	CO							
3002		CO							
3101	32.38	CO							
3103	31.17	CO							
3106	31.9	CO							
3202	32.44	CO							
3301	34.88	CO	33.56	225		CI	VC	57.07	67
3401	34	CO							
3403	33.15	CO							
4001	32.25	CO							
4002	31.23	CO	29.49	225		CI	VC	83.49	
4003	31.5	CO							
4004	30.9	CO	26.86	375		CI	VC	99.09	
4101	32.29	CO							
4102	33.5	CO							
4103	34.21	CO	32.81	225		CI	VC	23.6	64
4104	34.39	CO							
4105	32.67	CO							
4106		CO	0	225		CI	VC	8.49	
4107	32.59	CO	30.89	225		CI	VC	12.81	142
4202		CO							
4203		CO	0	225		CI	VC	7.21	
4301	35.94	CO							
4303	35.81	CO							
4304		CO	0	225		CI	VC	78.71	
4305	35.55	CO							
4306	35.9	CO	33.63	225		CI	VC	71.2	
4402	34.99	CO							
4403	34.67	CO							
0006		CO	28.04	225		CI	VC	15.03	50
0009		CO							
0203		CO							
0303		CO							
0304		CO							
0305		CO							
1004		CO	0	225		CI	VC	72.03	
1303		CO							
1304		CO							
2005		CO	0	900		CI	CO	4.12	
2010		CO	0	2133	1370	EG	BR	4.12	
2206		CO	0	225		CI	VC	10.05	
2211		CO	10.75	450		CI	VC	25.5	
2212		CO	10.9	400		CI	VC	2.83	
2314		CO							
2315		CO	0	400		CI	VC	6	
2316		CO	0	400		CI	VC	11.05	
2323		CO							
2324		CO							
2326		SW							
2330		CO							
2405		CO	27.71	250		CI	VC	5.1	6
3004		CO							
3105		CO							
4302		SW							
4307		CO							
0004		CO							
0200		CO							
0205		CO							
0306		CO							
1200		CO							
1201		CO							
1300		CO							
2008		CO							
2009		CO							
2104		CO							
2208		CO							
2209		CO							
2300		CO							
2302		CO							
2303		CO							
2310		CO							
2311		CO							
2312		CO							
2327		CO							
2328		CO							
2329		CO							
2400		CO							
2410		CO							
2411		CO							
2412		CO							
2413		CO							
2414		CO							
2415		CO							
2416		CO							
2417		CO							
3003		CO							
3102		CO							
3104		CO							
3200		CO							
3400		CO							
4200		CO							
4204		CO							
4300		CO							
4309		CO	0	225		CI	VC	54.2	

Refno	Cover	Func	Invert	Size.x	Size.y	Shape	Matl	Length	Grad
4401		CO							
4405		CO							

WASTE WATER SYMBOLOGY

Foul Surface Combined Overflow

Manhole
Manhole, Side Entry
MainSewer, Public
MainSewer, Private
MainSewer, S104
Rising Main, Public
Rising Main, Private
Rising Main, S104
Highway Drain, Private

Foul Surface Combined

WW Site Termination
Air Valve
Cascade
Non Return Valve
Extent of Survey
Flow Meter
Gulley
Hatch Box
Head of System
Hydrobrake / Vortex
Inlet
Inspection Chamber
Bifurcation
Catchpit
Contaminated Surface Water
WW Pumping Station
Sludge Pumping Station
Sewer Overflow
T Junction/Saddle
LampHole
OilInterceptor
PenStock
Pump
RoddingEye
Soakaway
Summit
Valve
Valve Chamber
Washout Chamber
DropShaft
WW Treatment Works
Septic Tank
Vent Column
Network Storage Tank
Orifice Plate
Vortex Chamber
Penstock Chamber
Blind Manhole

Foul Surface Combined Overflow

Screen Chamber
Discharge Point
Outfall

Sludge Main, Public
Sludge Main, Private
Sludge Main, S104

ABANDONED PIPE

MainSewer
Rising Main
Highway Drain
Sludge Main

Control Kiosk
Unspecified

LEGEND

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 Concrete
GRP 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

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SEWER RECORDS

OS Sheet No: SJ3986SW

Scale: 1: 1250 Date: 26/11/2015

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Refno	Cover	Func	Invert	Size.x	Size.y	Shape	Matl	Length	Grad
5001	33.49	CO							
5002	33.35	CO	31.78	225		CI	VC	38.28	36
5003	32.38	CO							
5101	35.37	CO							
5102	35.35	CO							
5103	35.02	CO							
5104	35.38	CO	32.08	225		CI	VC	20.02	20
5105	34.38	CO							
5106	35.43	CO							
5201	35.46	CO							
5202	35.69	CO	32.05	225		CI	VC	62.43	120
5203	35.55	CO							
5302	35.73	CO							
6001	34.2	CO							
6002	34.36	CO	29.02	300		CI	VC	47.81	133
6003	34.06	CO							
6004	33.84	CO							
6007	34.51	CO	32.53	300		CI	VC	7.81	2
6008	34.8	CO							
6101	35.05	CO							
6201	35.38	CO							
6202	35.28	CO	33.75	225		CI	VC	75.8	70
6203	35.04	CO							
6205	35.14	CO							
6302	36.48	CO							
7001	33.2	CO							
7006		CO							
7009		CO							
7101	33.74	CO							
7102	33.89	CO							
7103	34.58	CO	32.78	225		CI	VC	77.9	108
7201	35.57	CO	26.91	1250	760	EG	BR	42.54	122
7202	35.93	CO							
7301		CO	0	225		CI	VC	69.26	
7302	36.07	CO							
7303	36.39	CO							
7305	36.44	CO							
7306	36.4	CO							
7307	36.24	CO							
7308	36.26	CO							
8001	32.76	CO	31.09	225		CI	VC	51.22	88
8002	32.47	CO							
8201	34.82	CO							
8202	35.16	CO							
8301	35.7	CO							
8302	35.75	CO							
8303	35.66	CO	33.45	225		CI	VC	225.71	
8304		CO							
9001	32.43	CO	30.95	225		CI	VC	28.2	
9101	34.91	CO							
9102	34.7	CO	33.26	225		CI	VC	77.83	278
9103	34.58	CO	32.78	225		CI	VC	66.53	99
9104	33.76	CO	32.26	300		CI	VC	129.07	96
9105	33.66	CO	32.21	225		CI	VC	112.47	91
9106		CO							
9201	35.35	CO	33.13	225		CI	VC	62.1	151
9301	35.36	CO							
9302	35.71	CO							
9304	35.59	CO	34.15	225		CI	VC	37.36	
9305		CO							
9401	35.85	CO							
9402	34.6	CO	33.13	225		CI	VC	62.43	92
9404	35.12	CO							
5107		CO							
5108		CO							
5109		SW							
5110		CO							
5113		CO							
5114		CO							
5304		CO							
6104		CO							
6105		CO							
6106		FO							
6107		SW							
6108		CO							
7002		CO	0	150		CI	VC	5.59	
7003		CO	0	150		CI	VC	8.59	
7204		CO							
8003		CO	0	150		CI	VC	7.42	
8203		CO							
8204		CO							
8207		CO							
8306		CO							
8309		SW							
8312		CO							
9002		FO							
9005		CO							
9107		CO							
9202		CO							
9203		CO							
9303		CO							
9311		CO							
9401		SW							
5112		CO							
5205		CO							
5300		CO							
5305		CO							
5401		CO							
6000		CO							
6005		CO							
6009		CO							
6109		CO							
6200		CO							
6300		CO							
6301		CO							
7010		CO							
7203		CO							
7300		CO							
8307		CO							
8308		CO							
8310		CO							
9004		CO							
9200		CO							
9300		CO							
9307		CO							
9308		CO							
9309		CO							
9310		CO							
9403		CO							

WASTE WATER SYMBOLOGY

Foul Surface Combined Overflow

Manhole
Manhole, Side Entry
MainSewer, Public
MainSewer, Private
MainSewer, S104
Rising Main, Public
Rising Main, Private
Rising Main, S104
Highway Drain, Private

Foul Surface Combined

WW Site Termination
Air Valve
Cascade
Non Return Valve
Extent of Survey
Flow Meter
Gulley
Hatch Box
Head of System
Hydrobrake / Vortex
Inlet
Inspection Chamber
Bifurcation
Catchpit
Contaminated Surface Water
WW Pumping Station
Sludge Pumping Station
Sewer Overflow
T Junction/Saddle
LampHole
OilInterceptor
PenStock
Pump
RoddingEye
Soakaway
Summit
Valve
Valve Chamber
Washout Chamber
DropShaft
WW Treatment Works
Septic Tank
Vent Column
Network Storage Tank
Orifice Plate
Vortex Chamber
Penstock Chamber
Blind Manhole

Foul Surface Combined Overflow

Screen Chamber
Discharge Point
Outfall

Sludge Main, Public
Sludge Main, Private
Sludge Main, S104

ABANDONED PIPE

MainSewer
Rising Main
Highway Drain
Sludge Main

Control Kiosk
Unspecified

LEGEND

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

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SEWER RECORDS

OS Sheet No: SJ3986SE

Scale: 1: 1250 Date: 26/11/2015

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