

Shaw Stephens
Consulting

Land at Hillkirk Street

Manchester M11 3FY

Proposed Temporary Car Park

Flood Risk & Surface Water Drainage Review

For: Manchester City Council

Job Number:		0177
Report Reference:		0177-SSC-XX-XX-RP-C-0001-P01
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Written By:	Neville Shaw	
Previous Revisions and Date:	Draft – 16 Jan 2025	
Shaw Stephens Consulting, Three Acres Lane, Cheadle Hulme, Cheadle SK8 6RL		

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1.0

INTRODUCTION

- 1.1 This Flood Risk and Surface Water Drainage Review report has been prepared by Shaw Stephens Consulting on behalf of Manchester City Council. This document has been prepared to support the temporary planning application for a proposed car park at the site in advance of a future development proposal (refer to Appendix 3 for details).
- 1.2 The objective of the Flood Risk and Surface Water Drainage Review report is to identify potential flooding issues at the site and the proposed surface water drainage strategy. Any consequent implications on the proposed development site are also discussed.
- 1.3 The document has been prepared in accordance with the pro-forma guidance contained in:
 - i) Department for Communities and Local Government document 'National Planning Practice Guidance: Flood Risk and Coastal Change'
 - ii) Manchester City, Salford City and Trafford Councils Level 2 Hybrid SFRA – Level 1 SFRA – Final – March 2010 by JBA Consulting
 - iii) Manchester City, Salford City and Trafford Councils Level 2 Hybrid SFRA – Level 2 SFRA – Final – March 2011 by JBA Consulting
 - iv) DEFRA / Environment Agency publication SC030219 'Rainfall Runoff Management for Developments' dated October 2013.

2.0 NOTES ON LIMITATIONS

- 2.1 Shaw Stephens Consulting has prepared this report solely for the use of Manchester City Council.
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- 2.4 The information and views cited in the report are based on data derived from numerous sources. Shaw Stephens Consulting do not accept any liability for the correctness or otherwise of any information provided by third parties.
- 2.5 It should be noted that some of the elements covered in this report may be subject to change over time. Therefore, if the development is delayed or postponed, it may be necessary to consider reviewing such matters to verify that there have been no changes either at the subject site or in relation to pertinent legislation.
- 2.6 Further consultations with statutory bodies will evidently be required as the project progresses. Where responses have been received from Regulators, it is noted that the nature of these responses could be subject to change in the future.

3.1 Site Location and Description

The 0.60 hectare brownfield site is located on the junction of Ashton New Road and Hillkirk Street, Manchester at Ordnance Survey reference 386222, 398518 as shown on the site location plan in Appendix 1 and the existing site plan in Appendix 2.

The site is currently vacant with the existing surfacing consisting of part concrete and part stoned up areas reflecting a previous external yard area (concrete area) located outside a previous site building (stoned up area). These areas are identified on the topographical survey plan in Appendix 6.

The site is relatively flat with levels varying between 48.1m AOD and circa 50.3m AOD. The existing topographical survey can be found in Appendix 6.

The nearest watercourse is the River Medlock which is located adjacent to the western site boundary.

3.2 Existing Sewer Network

The United Utilities sewer plan in Appendix 5 indicates the following adopted sewer infrastructure within and adjacent to the site:

- At the northern end of the site, a 2025mm diameter gravity surface water sewer extends from east to west across the site and outfalls into the River Medlock directly to the west of the site.
- Adjacent to the south western corner of the site, a short length of 150mm diameter gravity surface water sewer extends from south east to north west across the site and outfalls into the River Medlock directly to the west of the site.
- 760mm x 570mm diameter gravity combined water sewer extends from north east to south west across the site – this sewer appears to terminate towards the south western corner of the site.

- 1080mm x 800mm diameter gravity combined water sewer extends from north east to south west across the site.
- Gravity combined water sewer extends from south to north beneath Hillkirk Street directly to the east of the site.

A 225mm / 300mm diameter private surface water sewer is also noted extending from north west to south east beneath Cambrian Street directly to the north east of the site.

4.1 Fluvial Flooding

The current Flood Map for Planning indicates the site to lie wholly in Flood Zone 1 and therefore above any 1 in 1000 year risk (refer to EA mapping in Appendix 4 for details). Areas of Flood Zones 2 and 3 associated with the River Medlock lie immediately adjacent to the western site boundary.

4.2 Surface Water Flooding

The current Flood Map for Planning indicates a localised area of surface water flooding in the south east corner of the site adjacent to Hillkirk Street and a linear extent of surface water flooding along the western kerb edge of Hillkirk Street.

Long term EA / DEFRA flood risk mapping indicates the above surface water flooding has a depth of surface water flooding of less than 200mm in the climate change event through to 2060 (refer to EA mapping in Appendix 4 for details).

4.3 Reservoir Flooding

EA / DEFRA flood mapping indicates no areas at risk of reservoir flooding.

4.4 Groundwater Flooding

A review of the groundwater mapping in the Manchester City, Salford City and Trafford Councils Level 2 Hybrid SFRA – Level 1 SFRA – Final – March 2010 by JBA Consulting clearly shows that the site lies in an area with no identified potential for groundwater flooding to occur.

On this basis, together with there being no basement development proposals at the site, the risk of groundwater flooding is considered to be negligible.

5.1 Nature of Development

A temporary planning application is to be submitted for a temporary car park at the site (refer to Appendix 3 for details).

No work is proposed to the existing surface finishes and no lining, thermoplastic markings or other demarcations are proposed as part of this temporary planning application.

5.2 Surface Water Drainage

The existing surface appears to be stoned up over the envelope of a former (now demolished) site building with the former external concrete yard slab around the building remaining insitu.

The results of a drainage survey recently commissioned and undertaken at the site are covered in Appendices 6 (drainage survey plan) and Appendix 7 (CCTV survey) of this report. It was not feasible to capture all the data from the deep adopted combined sewers that extend through the site as they were found to extend to a significant depth and would therefore have required man entry techniques to access and survey them to their full depth.

However, all sewer alignments are fully surveyed and shown on the plan in Appendix 6. In addition to the public sewers identified on the UU sewer plans (refer to section 3.2 and Appendix 5 for details), private drainage serving the former building and adjacent hardstanding area has also been identified in the drainage survey.

On the basis that it is intended to leave the site surface in its current state, the sole risk from a surface water drainage perspective is localised standing water due to a lack of positive drainage over the 'stoned up' section of the site. This is only likely to take the form of shallow ponding due to the relatively 'flat' nature of the site and it is therefore considered that this can be managed by Manchester City Council as part of the operation and maintenance strategy for the proposed temporary car park.

5.3 Safe Access and Egress

There is a 'dry' safe access / egress route via the proposed site entrance/exit at Hillkirk Street on the eastern side of the site which will allow pedestrians and vehicles to safely enter and exit the temporary car park within Flood Zone 1 without the intervention of the emergency services or others.

6.1 Flooding

Following review of the Environment Agency flood maps and data, it has been confirmed that the site lies wholly in Flood Zone 1.

The current Flood Map for Planning indicates a localised area of surface water flooding in the south east corner of the site adjacent to Hillkirk Street and a linear extent of surface water flooding along the western kerb edge of Hillkirk Street whilst long term EA / DEFRA flood risk mapping indicates the above surface water flooding has a depth of surface water flooding of less than 200mm in the climate change event through to 2060.

It is considered that the above identified surface water flood risk as shown on the latest Flood Map for Planning effectively reflects localised standing water due to lack of existing drainage – it is likely that this represents shallow ponding due to the ‘flat’ nature of the site and can therefore be managed by Manchester City Council as part of their operation and maintenance strategy for the proposed temporary car park site.

EA / DEFRA flood mapping indicates no areas at risk of reservoir flooding.

A review of the groundwater mapping in the Manchester City, Salford City and Trafford Councils Level 2 Hybrid SFRA – Level 1 SFRA – Final – March 2010 by JBA Consulting clearly shows that the site lies in an area with no identified potential for groundwater flooding to occur. On this basis, together with there being no basement development proposals at the site, the risk of groundwater flooding is considered to be negligible.

6.2 Surface Water Drainage

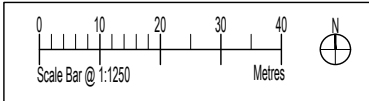
The existing surface appears to be stoned up over the envelope of a former (now demolished) site building with the former external concrete yard slab around the building remaining insitu.

On the basis that it is intended to leave the site surface in its current state, the sole risk from a surface water drainage perspective is localised standing water due to a lack of positive drainage over the 'stoned up' section of the site. This is only likely to take the form of shallow ponding due to the relatively 'flat' nature of the site and can therefore be managed by Manchester City Council as part of the operation and maintenance strategy for the proposed temporary car park.

APPENDIX

APPENDIX 1

SITE LOCATION PLAN



Site Area - 1.49 Acres
(6,040 sq.m)

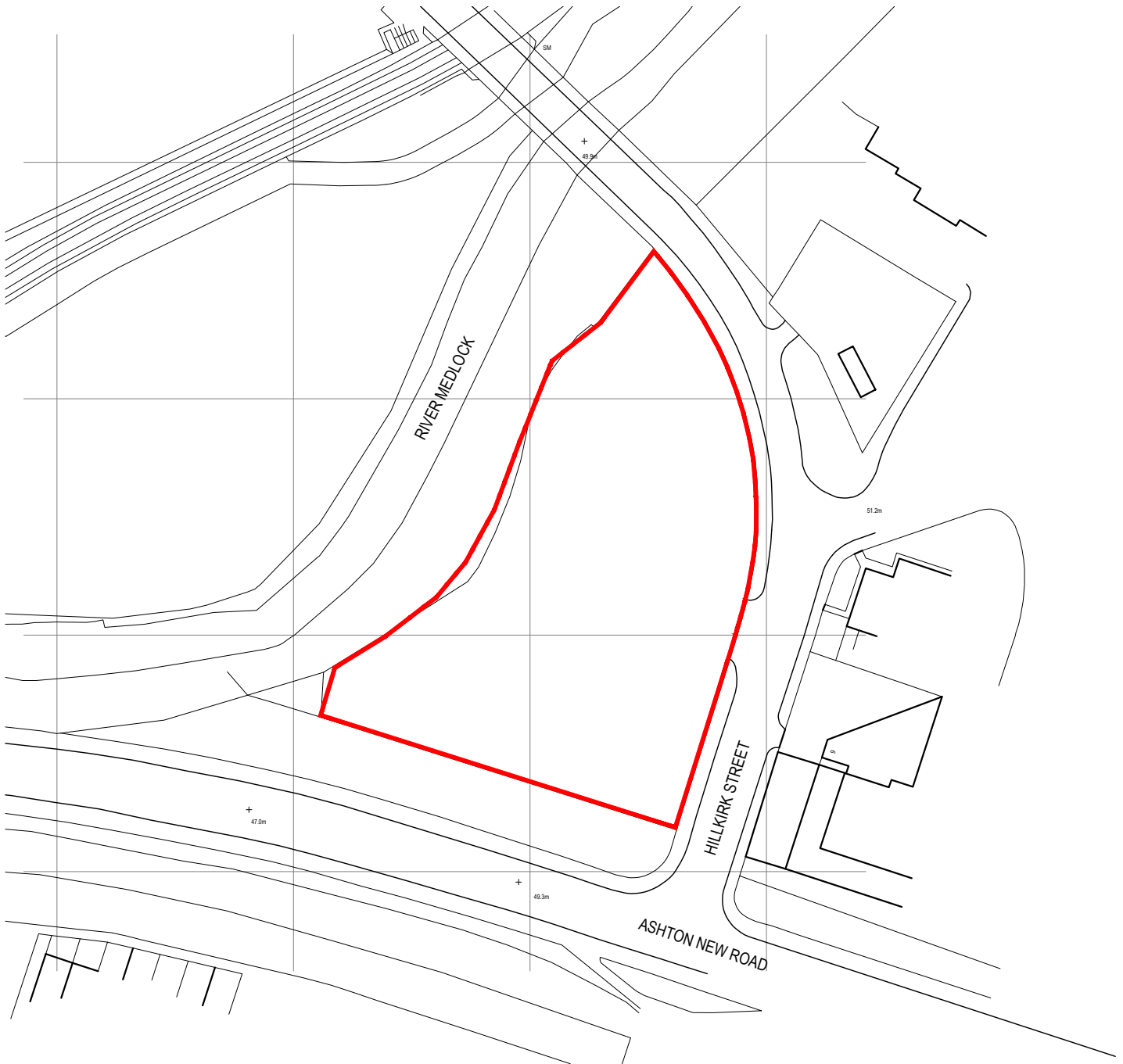
All dimensions and levels are to be checked on site.

Any discrepancies are to be reported to Cube Architecture and Design before any work commences.

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Client: MANCHESTER CITY COUNCIL

Drawing:
LOCATION PLAN

Status: PLANNING

Contract:
LAND WEST OF HILLKIRK STREET
MANCHESTER, M11 3FY

Drawing No:
AS907-01
Revision:

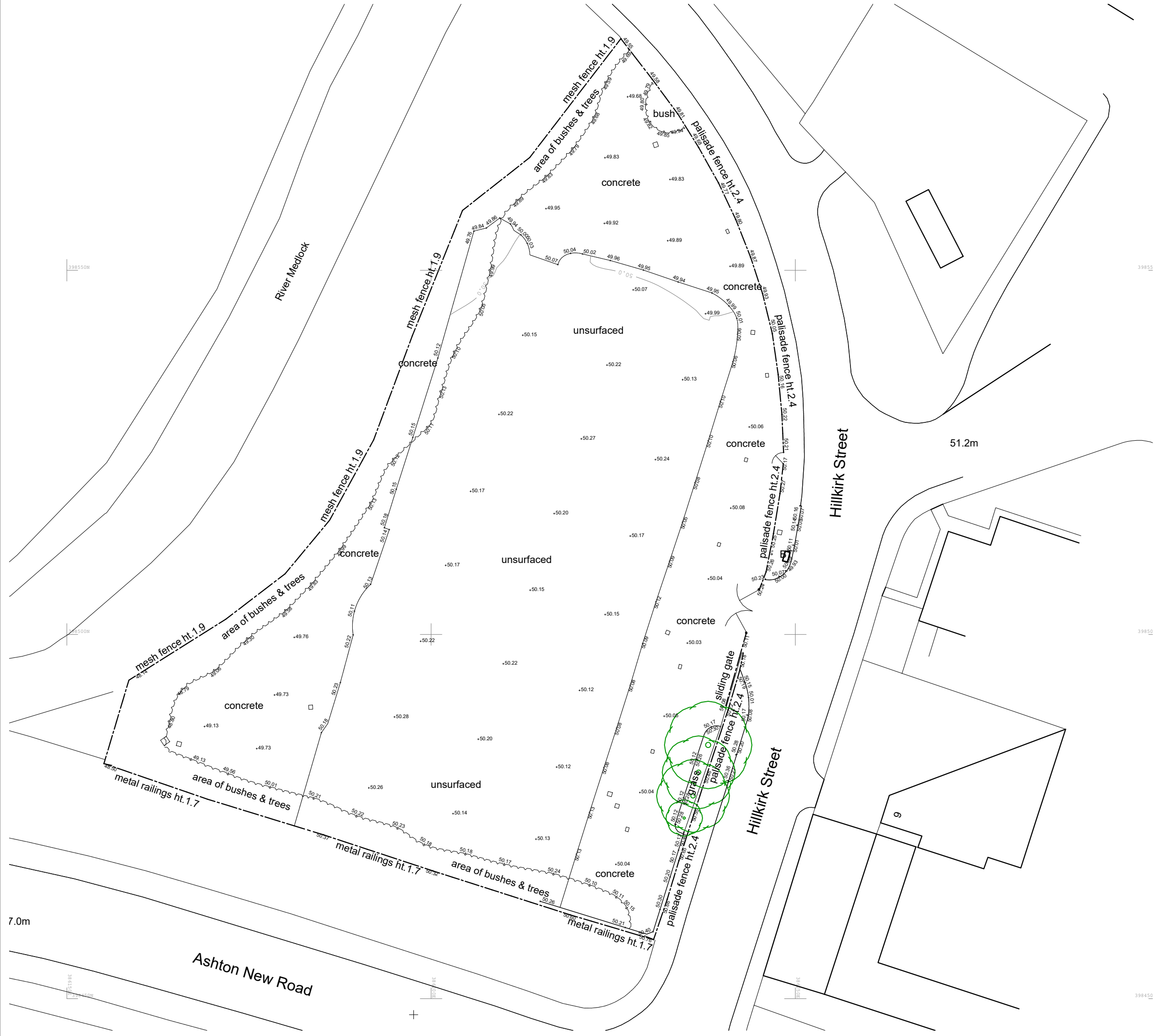
Scales:
1:1250@A4

CUBE
architecture and design
www.cubearchitecture.net

commercial house
clareance avenue
trafford park
m17 1qs
tel: 0161 848 5893

APPENDIX 2

EXISTING SITE PLAN



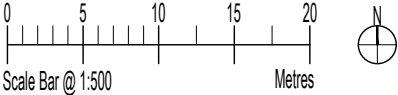
All dimensions and levels are to be checked on site.

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Rev	Description	Date	By
Status: PLANNING			
Client: MANCHESTER CITY COUNCIL			
Contract: PROPOSED TEMPORARY CAR PARK LAND WEST OF HILLKIRK ROAD MANCHESTER, M11 3FY			
Drawing: EXISTING SITE PLAN			
Drawing No: AS907-02	Revision: -	Scales: 1:500@A3	
Drawn: DMR	Checked: -	Date: DEC '25	

APPENDIX 3

PROPOSED SITE PLAN



All dimensions and levels are to be checked on site.

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0

5

10

15

20

Scale Bar @ 1:500

Metres

2.5m

5m

PARKING BAYS SHOWN FOR INDICATIVE PURPOSES ONLY

179 Total - 2.5m x 5.0m standard bays.

Indicative car parking layout shown to illustrates potential parking capacity purposes only. No works are proposed to the existing surface finishes and no lining, thermoplastic markings or other demarcations are proposed as part of the planning application.

A	Revised following Transport Consultant comments	18.12.25	DMR
Rev	Description	Date	By
Status: PLANNING			
Client: MANCHESTER CITY COUNCIL			
Contract: PROPOSED TEMPORARY CAR PARK LAND WEST OF HILLKIRK ROAD MANCHESTER, M11 3FY			
Drawing: PROPOSED SITE PLAN			
Drawing No: AS907-03	Revision: A	Scales: 1:500@A3	
Drawn: DMR	Checked: -	Date: DEC '25	

APPENDIX 4

FLOOD MAP FOR PLANNING AND EA LONG TERM FLOOD MAPPING

Flood map for planning

Get a boundary report

 Add

Datasets

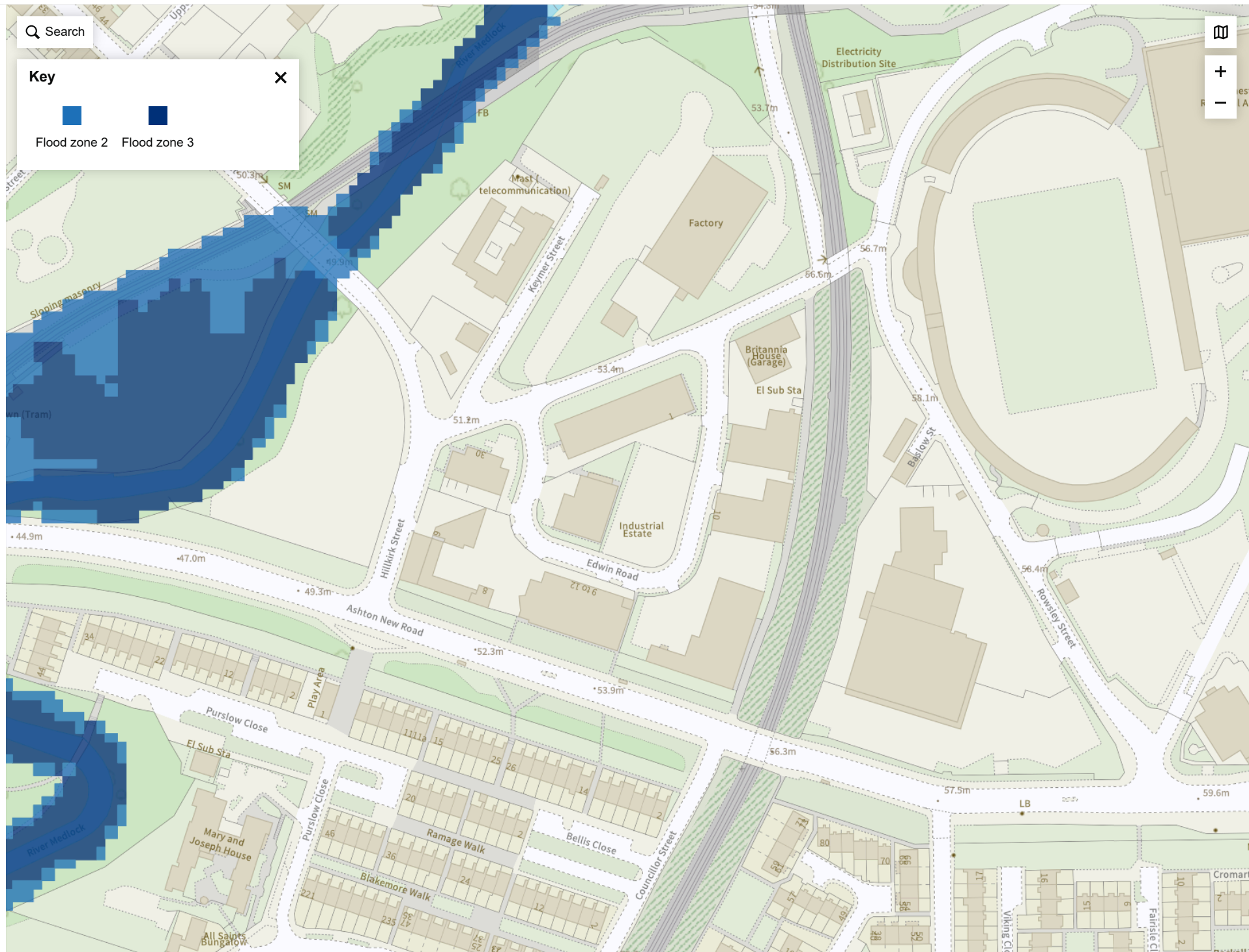
- ☒ Flood zones 2 and 3
- ☐ Surface water
- ☐ None

Climate change

- ☒ Present day
- ☐ 2070 to 2125

Map features

- ☐ Water storage
- ☐ Flood defence
- ☐ Main Rivers



Flood map for planning

Get a boundary report

[Add](#)

Datasets

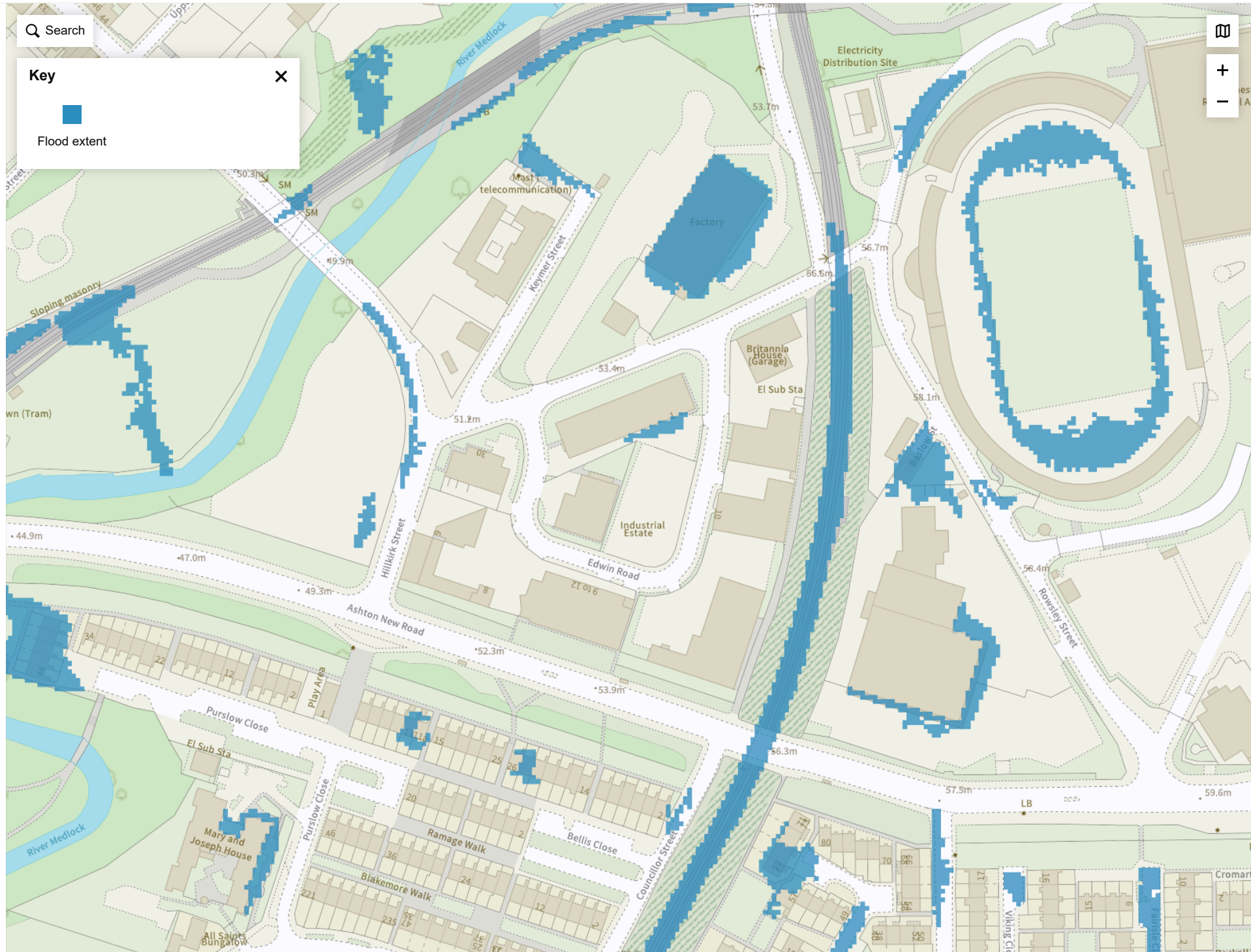
- ☐ Flood zones 2 and 3
- ☒ Surface water
- ☐ None

Annual likelihood of flooding

- ☐ 1 in 30
- ☒ 1 in 100
- ☐ 1 in 1000

Map features

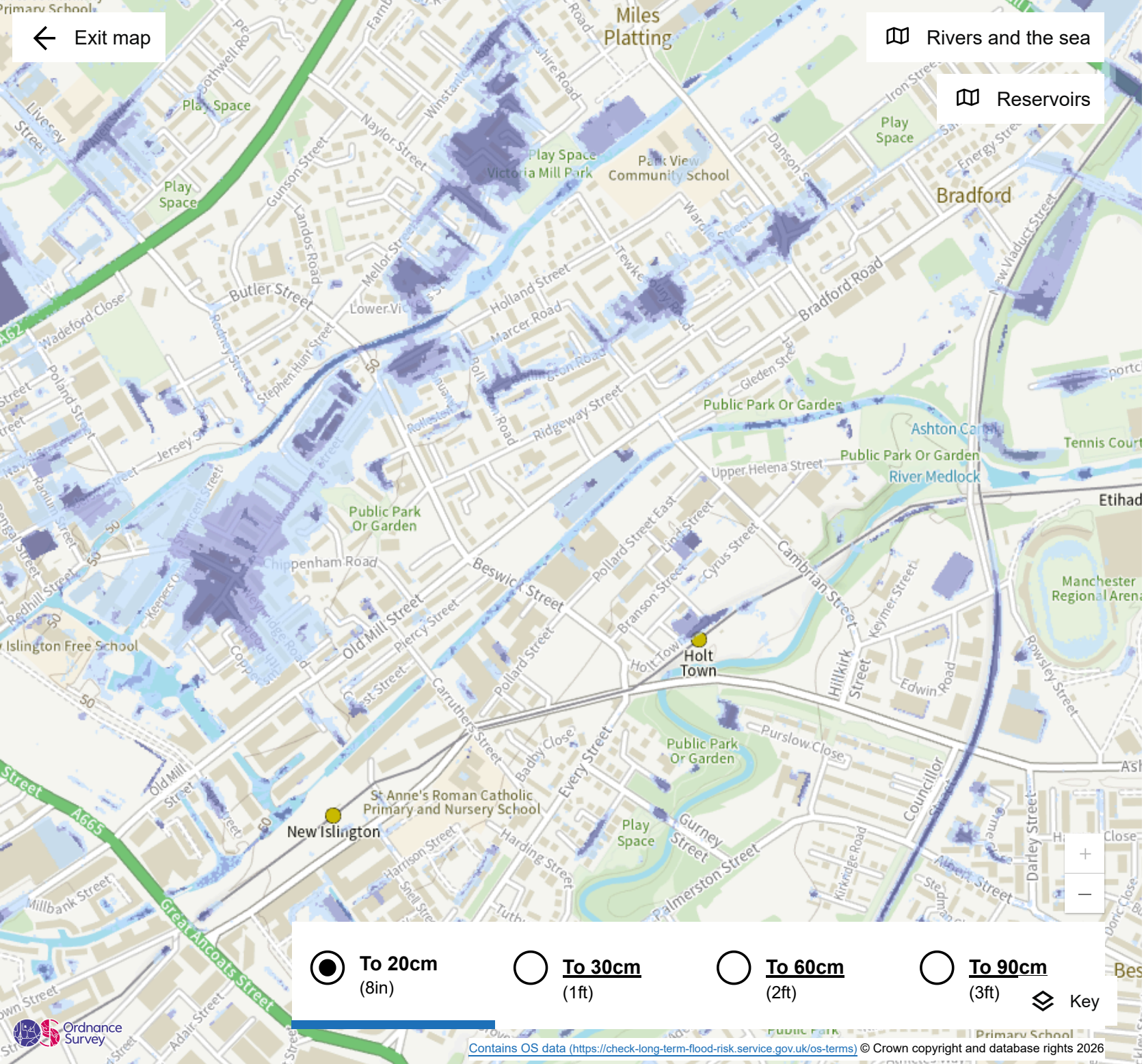
- ☐ Water storage
- ☐ Flood defence
- ☐ Main Rivers



← Exit map

Rivers and the sea

Reservoirs



To 20cm
(8in)

To 30cm
(1ft)

To 60cm
(2ft)

To 90cm
(3ft)

Key



Contains OS data (<https://check-long-term-flood-risk.service.gov.uk/os-terms>) © Crown copyright and database rights 2026

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APPENDIX 5

UNITED UTILITIES SEWER PLANS

**BWB Consulting
5th Floor, Waterfront House
Station Street
The Lace Market
Nottingham
NG2 3DQ**

FAO: Joel Roberts

Dear Sirs

Location: HALL & ROGERS HILLKIRK STREET BRADFIELD MANCHESTER M11 3EZ

I acknowledge with thanks your request dated 31/08/16 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 for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read our 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 telephone us on 0370 7510101.

Yours Faithfully,



Amanda Simmonds
Property Searches Manager

United Utilities 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@uu plc.co.uk

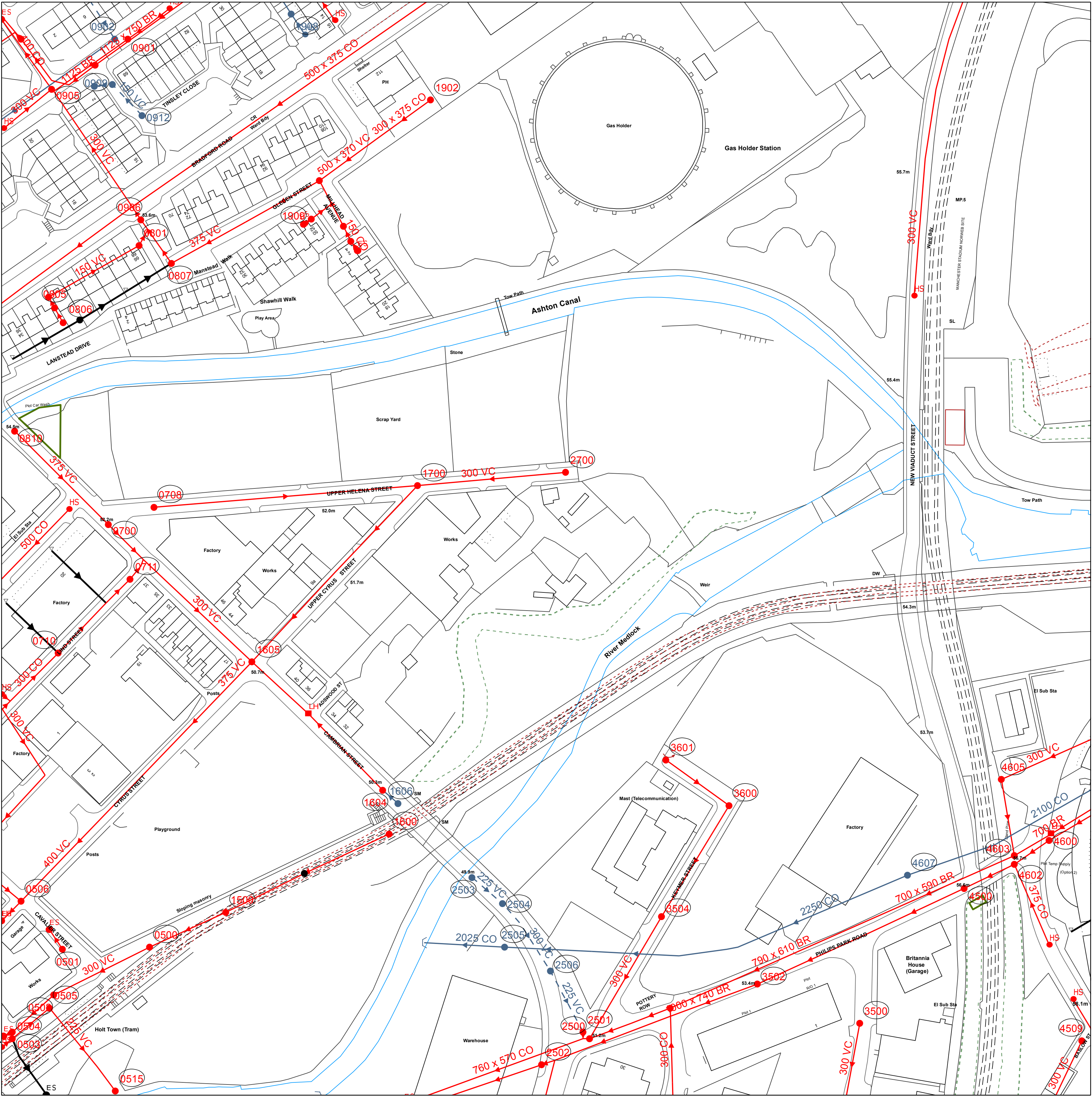
Your Ref: BWB
Our Ref: 16/ 1229406
Date: 2/9/2016

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 and given in accordance with the best information available. The nature of the relevant system and/or its actual position may be different from that shown on the plan and UUWL is not liable for any damage caused by incorrect information provided save as stated in section 199 of the Water Industry Act 1991. 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.



Reho	Cover	Func	Invert	Size	xSize	yShape	Mat	Length	Grad	Reho	Cover	Func	Invert	Size	xSize	yShape	Mat	Length	Grad
0500	41.12	CO	37.48	300		CI	VC	48.19		159									
0501	42.74	CO	40.66	150		CI	VC	10.82											
0502	41.24	CO																	
0503	42.09	CO																	
0504	42.08	CO	36.18	225		CI	VC	22.02		116									
0505	41.47	CO																	
0506	45.81	CO	42.58	400		CI	VC	12.73											
0515	40.1	CO																	
0700	52.13	CO	48.7	375		CI	VC	11.31											
0708		CO	0	300		CI	VC	121.41											
0710		CO																	
0711		CO																	
0801		CO																	
0804		CO																	
0805		CO																	
0807	54.27	CO	48.43	375		CI	VC	12.21											
0810		CO	0	375		CI	VC	60.81											
0901	52.4	CO	48.02	400		CI	VC	41.62		184									
0902	52.47	SW	47.47	920		BR	114.04												
0903	52.26	CO																	
0904	51.47	CO	0	400		CI	CO	39.41											
0905	52.29	CO	0	300		CI	VC	7.21											
0906	53.81	CO																	
0909		SW																	
0912		SW																	
0918		SW	37.6	300		CI	VC	38.48		385									
1500	41.2	CO	38.19	300		CI	VC	83.12		143									
1600	42.18	CO	45.97	300		CI	VC	84.18		79									
1604	50.03	CO																	
1605	50.4	CO	48.48	225		CI	VC	9.22		17									
1606	50.04	SW																	
1700	51.84	CO	51.81	225		CI	VC	23.71		148									
1800	53.13	CO																	
1801		CO																	
1901	54.05	CO	0	300	375	EG	CO	30.81											
1902		CO	225			CI	VC	24.15											
1908		SW																	
1909		SW																	
2500	50.38	CO	36.42	225		CI	VC	3		307									
2501	50.53	CO	35.44	1180	770	EG	BR	43.32											
2502	50.14	CO	46.86	225		CI	VC	18.44											
2503	49.62	SW																	
2504	49.92	SW	39.92	2025		CI	CO	37.05		7									
2505	49.95	SW																	
2506		SW																	
2700	51.9	CO	48.74	300		CI	VC	68.26		129									
3500	53.95	CO	51.83	300		CI	VC	38.64		81									
3501	50.46	CO	46.42	300		CI	VC	69											
3502	53.12	CO	36.02	1000	740	EG	BR	49.04											
3503	51.82	CO	46.26	740	600	EG	BR	19.31		32									
3504	50.46	CO	46.42	300		CI	VC	69											
3600	50.24	CO	47	300		CI	VC	59.68		107									
3601	50	CO	47.4	300		CI	VC	35.81		92									
4500	56.38	CO	36.58	1140	710	EG	BR	51.89		226									
4509		CO	0	300		CI	VC	156.73											
4600	56.72	CO	0	1100		CI	BR	19.42											
4602	56.68	CO																	
4603	56.76	CO																	
4605		CO																	
4607		CO																	
0513		CO	0	225	300	CI	VC	6.4											
0601		CO	0	400	300	EG	VC	51.66											
0604		CO	0	300		CI	VC	5											
0605		CO																	
0701		CO	0	500		CI	CO	43.14											
0705		CO																	
0712		CO																	
0802		CO																	
0908		CO	0	225		CI	VC	23.6											
0910		CO	0	1125	750	EG	BR	108.59											
0911		CO	0	300		CI	VC	28.43											
0914		CO	0	400		CI	VC	11.4											
0915		CO																	
0916		CO																	
0917		CO																	
1701		CO																	
1903		CO																	
1905		CO																	
1906		CO	225			CI	VC	12.31											
1907		CO	225			CI	VC	11.54											
2510		CO																	
2511		CO																	
2512		CO																	
3501		CO																	
3505		CO																	
3508		CO																	
3509		CO																	
3510		CO																	
4506		CO	0	375		CI	CO	40.31											
4508		CO	0	450		CI	CO	61.06											
4801		CO	0	300		CI	VC	358.73											
0507		CO																	
0602		CO																	
0606		CO																	
0703		CO																	
0706		CO																	
0807		CO																	
0913		CO																	
1603		CO																	
1910		CO																	
2508		CO																	
2509		CO																	
4601		CO																	
0707		CO																	
0709		CO																	
0801	54.26	SW																	
0808		SW																	
0809		SW																	
1602	41.18	CO																	
4507		CO																	

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

Gully

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

Oil Interceptor

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

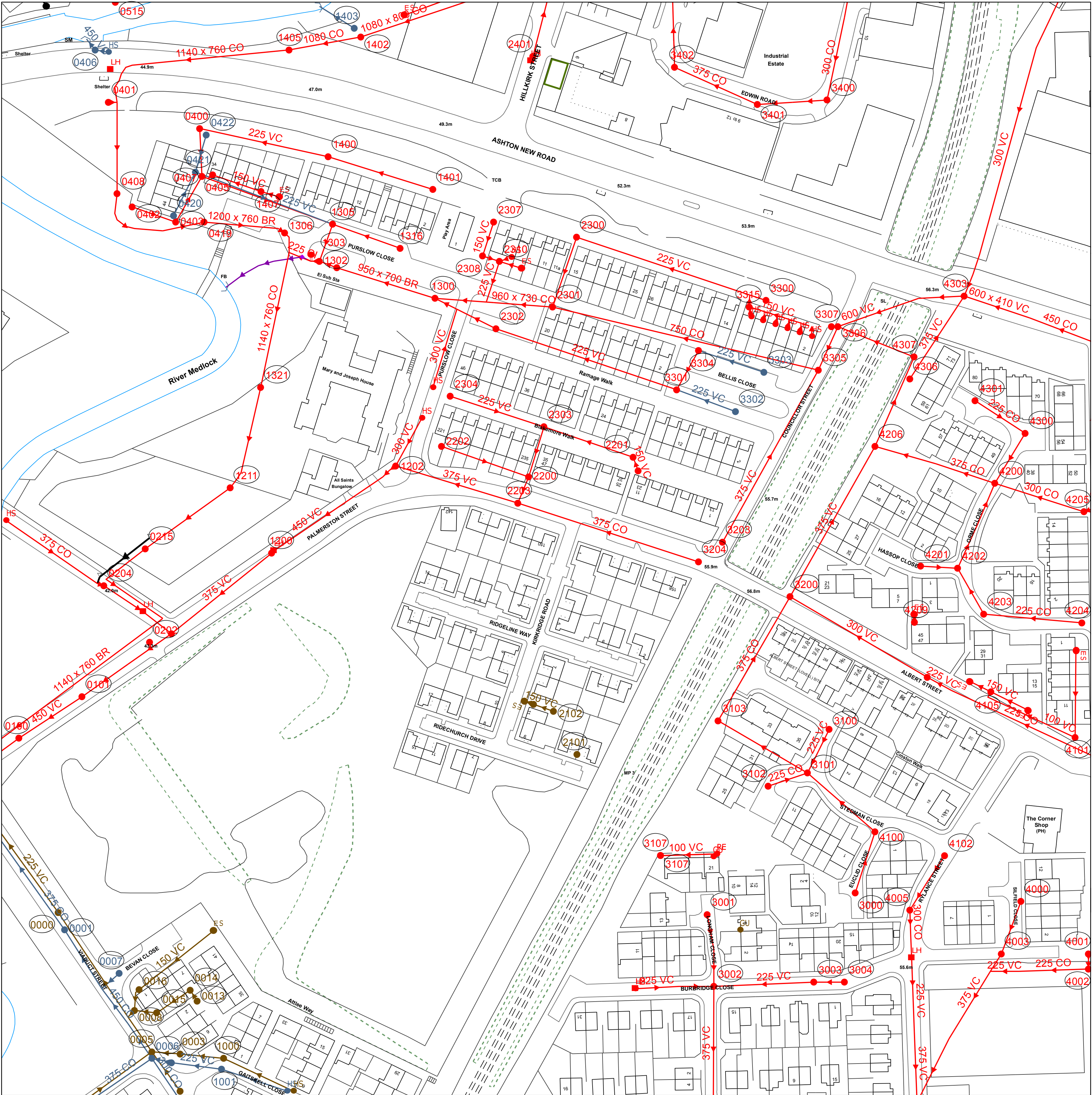
Foul

Surface

Combined

Overflow

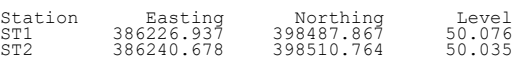
Screen Chamber



Reho	Cover	Func	Invert	Size	x	Size	y	Shape	Mat	Length	Grad	Reho	Cover	Func	Invert	Size	x	Size	y	Shape	Mat	Length	Grad
0000	41.55	FO	39.33	225				CI	VC	75.21	35	3403		CO	51.84	225				CI	VC	44.97	51
0001	41.98	SW	39.57	375				CI	VC	34.87	31	3404		CO									
0002	44.61	FO	42.33	225				CI	VC	22.2	22	4006		CO									
0003	44.28	FO	41.56	225				CI	VC	13.04	67	4008		CO									
0004	44.14	SW	41.48	225				CI	VC	4.12	20	4009		CO									
0005	43.67	FO	40.98	280				UN	CO	19.42	4011			CO									
0006	43.72	SW	39.74	150				CI	VC	10.63	4012			CO									
0007	42.11	SW	40.66	150				CI	VC	4.24	4207			CO									
0008	43.01	FO									4104			CO									
0013		FO									4207			CO									
0014		FO									4302			CO									
0015		FO									4305			CO									
0016		FO									4308			CO									
0100	41.77	CO	37.48	450				CI	VC	32.2	16	4308		CO									
0101	42.43	CO	37.75	450				CI	VC	34.87	133	5009		CO									
0200	43.31	CO	38.52	375				CI	VC	24.41	68	0009		CO									
0202	42.9	CO									0010		CO										
0204		CO	0	375				CI	VC	38.03	0201		CO										
0215		CO	43.35	225				CI	VC	22.02	0411		CO										
0400	45.48	CO	44.35	225				CI	VC	21.19	193	0416		CO									
0401	45.35	CO	34.17	1140				CI	VC	4	1206			CO									
0402	44.41	CO	43.07	225				CI	VC	6.4	1304			CO									
0403	44.63	CO									1320			CO									
0405		CO									2000			CO									
0406	44.79	SW	39.64	450				CI	VC	6.4	2311			CO									
0407		CO									2400			CO									
0408		CO									3108			CO									
0419	44.69	SW	0	225				CI	VC	22.36	3108			CO									
0421		SW	0	225				CI	VC	17.72	3108			CO									
0422		SW									3317			CO									
1000	44.93	FO									3317			CO									
1001	44.81	SW	0	375				CI	VC	59.03	3318			CO									
1200	46.13	CO	0	375				CI	VC	3.61	3319			CO									
1202	50.13	CO									3320			CO									
1211		CO	44.4	950	700	UN	BR	47.13			3321			CO									
1300	50.4	CO									4004			CO									
1301	47.29	CO									4007			CO									
1302	47.12	CO									0208			CO									
1303	46.8	CO	0	225				CI	VC	18.03	0208			CO									
1305	47.46	CO												CO									
1306		CO												CO									
1316	49.44	CO	46.29	225				CI	VC	32.89	26			CO									
1321	48.05	CO	47.03	225				CI	VC	48.63	80			CO									
1400	48.05	CO	45.65	225				CI	VC	60.42				CO									
1401	49.4	CO	47.03	225				CI	VC	60.59				CO									
1402	48.74	CO	0	1080				CI	VC	33.54				CO									
1403	48.61	SW	0	150				CI	VC	18.87				CO									
1405		CO												CO									
1407		CO												CO									
2101		CO												CO									
2102		CO												CO									
2103		CO												CO									
2200	52.62	CO	51.15	225				CI	VC	43.32	197			CO									
2201	53.39	CO	49.62	225				CI	VC	42.38	63			CO									
2202	50.93	CO	46.88	375				CI	VC	58.52				CO									
2203	52.52	CO												CO									
2204		CO												CO									
2300	52.42	CO	50.49	225				CI	VC	33.84				CO									
2301	51.89	CO												CO									
2302	51.18	CO	49.33	225				CI	VC	20.12				CO									
2303	51.83	CO	49.71	225				CI	VC	45.22	133			CO									
2304	51.06	CO												CO									
2308		CO												CO									
2401	50.38	CO	53.91	225				CI	VC	29.41	98			CO									
3001	55.5	CO	52.92	225				CI	VC	16.28	17			CO									
3001	54.52	CO												CO									
3002	54.45	CO	51	375				CI	VC	57.67	240			CO									
3003	54.89	CO	51.19	225				CI	VC	46.03	242			CO									
3004	55.16	CO	0	225										CO									
3100	55.98	CO	54.27	225				CI	VC	11.18	112			CO									
3101	55.66	CO	52.96	375				CI	VC	47.51	158			CO									
3105	55.29	CO	53.66	225				CI	VC	18.97	46			CO									
3103	55.83	CO												CO									
3107		CO												CO									
3200	56.73	CO	0	375				CI	VC	90.43				CO									
3204		CO												CO									
3301	54.73	CO	52.34	225				CI	VC	91.71	50			CO									
3301	53.57	CO	51.67	225				CI	VC	87.6	38			CO									
3302	54.74	SW	52.38	225				CI	VC	28.79	42			CO									
3303	55	SW	52.62	225				CI	VC	31.62	287			CO									
3304	53.36	CO												CO									
3305	55.41	CO	47.44	750				CI	VC	125.4	163			CO									
3306	55.39	CO	47.61	750				CI	VC	21.93				CO									
3307	55.41	CO	47.71	750				CI	VC	2				CO									
3315		CO												CO									
3400	54.29	CO	51.15	300				CI	VC	16.03	100			CO									
3401	53.68	CO	50.76	375				CI	VC	41.63	297			CO									
3402	52.65	CO												CO									
4000	55.63	CO	53.72	225				CI	VC	25.63	11			CO									
4001	56.37	CO	53.92	225				CI	VC	3				CO									
4002	56.8	CO	51.74	225				CI	VC	32.02				CO									
4003	55.67	CO	52.05	300				CI	VC	10.97	52			CO									
4005	55.88	CO												CO									
4100	55.81	CO												CO									
4101		CO												CO									

APPENDIX 6

TOPOGRAPHICAL AND DRAINAGE SURVEY PLAN



NOTES

SURVEY CO-ORDINATE SCHEDULE

STATION	EASTING	NORTHING	HEIGHT
1	101200.0	101200.0	101200.0
2	101200.0	101200.0	101200.0
3	101200.0	101200.0	101200.0
4	101200.0	101200.0	101200.0
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18	101200.0	101200.0	101200.0
19	101200.0	101200.0	101200.0
20	101200.0	101200.0	101200.0
21	101200.0	101200.0	101200.0
22	101200.0	101200.0	101200.0
23	101200.0	101200.0	101200.0
24	101200.0	101200.0	101200.0
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81	101200.0	101200.0	101200.0
82	101200.0	101200.0	101200.0
83	101200.0	101200.0	101200.0
84	101200.0	101200.0	101200.0
85	101200.0	101200.0	101200.0
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91	101200.0	101200.0	101200.0
92	101200.0	101200.0	101200.0
93	101200.0	101200.0	101200.0
94	101200.0	101200.0	101200.0
95	101200.0	101200.0	101200.0
96	101200.0	101200.0	101200.0
97	101200.0	101200.0	101200.0
98	101200.0	101200.0	101200.0
99	101200.0	101200.0	101200.0
100	101200.0	101200.0	101200.0

STATION EASTING NORTHING HEIGHT

```

LAND SURVEY INFORMATION
GRID:          X
VERTICAL DATUM: X
                HEIGHT ESTABLISHED VIA "TRIMBLE VRS NOW NETWORK"
                COMMERCIAL RTK GPS CORRECTION SERVICE
LOCAL SCALE FACTOR: X

```

Electromagnetic and/or Ground Penetrating Radar techniques have been used to locate/map underground utilities and features on this drawing. Subsite Surveys Ltd has made every endeavour to make sure that the information contained within this drawing is accurate and of the highest quality. Subsite Surveys Ltd has used any record drawings provided by the client or by the Statutory Utility Provider at the client's request, at the time of the survey. Any information taken from these drawings (e.g. pipe sizes and position) is not guaranteed. Historic record information is often incomplete and inaccurate and cannot be relied upon.

Subsite Surveys Ltd is not liable for any topographical survey that has not been undertaken by us. Any inaccuracies relating to topographical plans/development plans/Ordnance Survey data that we have no control over is the liability of the customer. Where quoted, depth information of underground services/features is stated. Depths are generally within $\pm 10\%$ accurate, but cannot be guaranteed. Any depths shown are drains are usually to invert (base of drainage channel) unless otherwise stated.

The completeness of any underground survey cannot be 100% guaranteed and the results from these types of surveys are not infallible. If the location or depth of services/features is of particular importance to a project then it is strongly advised that discussions are held with Subsite Surveys Ltd regarding any possible limitations or anomalies. It is also strongly advised that trial excavations should be undertaken to confirm survey results. We cannot be held responsible for any inaccuracies beyond those that could be reasonably expected by a competent company.

[illegible]

	BUILDING
	BANKING
	DRAINAGE CHANNEL
	FENCE
	STEPS
	LINE MARKINGS
	WALL
	VERGE
	VEGETATION
	ROOF LINES

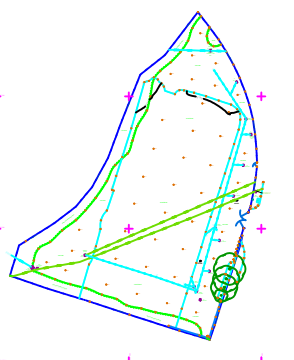
	FIRE HYDRANT		TREE
	STOP VALVE		HEDGE
	MANHOLE		SPOT LEVEL
	LAMP POST		RIDGE LEVEL
	ROAD SIGN		EAVES LEVEL
	BOLLARD		FENCE LEVEL
	THRESHOLD LEVEL		
	O.S BENCH MARK		

ST03 SURVEY STATION
57.775

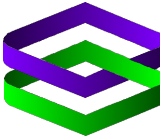
A SINGLE LINE INDICATING A UTILITY MAY INDICATE THE PRESENCE OF MULTIPLE SERVICES WITHIN CLOSE PROXIMITY TO EACH OTHER. WHERE A SINGLE LINE TYPE IS SHOWN WE RECOMMEND HAND DIGGING WITHIN 0.5m TO EXPOSE HIDDEN SERVICES.

[illegible]

SHEET LAYOUT



CLIENT Show Stephens Consulting		DWG No 1225-SSC-001	REV
TITLE Hillkirk Street Bradford Manchester M11 3FY		SCALE 1:200@A0	
		SURVEYOR CM	
		DRAWN CM	
		DATE 09/12/2025	
		SURVEY TYPE	
TOPOGRAPHICAL	☒		
DRAINAGE	☒		
UTILITY	☒		



SUBSITE SURVEYS

APPENDIX 7

EXISTING CCTV DRAINAGE SURVEY REPORT



Project

Project Name: Hillkirk Street

Project Date: 05/12/2025

Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)



SUBSITE SURVEYS

Table of Contents

Project Name Hillkirk Street	Project Number	Project Date 05/12/2025
--	-----------------------	-----------------------------------

Project Information	P-1
Section Item 1: MH01 > SA01 (MH01X)	1
Section Item 2: SA02 > MH01 (SA02X)	3
Section Item 3: MH02 > MH03 (MH02X)	7
Section Item 4: SA03 > MH02LAT-A (SA03X)	9
Section Item 5: SA04 > MH02 (SA04X)	11
Section Item 6: MH03 > SA05 (MH03X)	13
Section Item 7: SA06 > MH03 (SA06X)	15
Section Item 8: SA07 > MH04LAT-A (SA07X)	17
Section Item 9: SA08 > MH04LAT-B (SA08X)	19
Section Item 10: SA09 > MH04 (SA09X)	21



Project Information

Project Name
Hillkirk Street

Project Number

Project Date
05/12/2025

Site

Street: Hillkirk Street

Post Code: M12 6PR

Contractor

Company: Subsite Surveys

Contact: Peter Smith

Street: Willow House, Low Lane

Town or City: Braithwaite, Doncaster

Post Code: DN7 5SS

Phone: 07427401344

Email: p.smith@subsitesurveys.co.uk



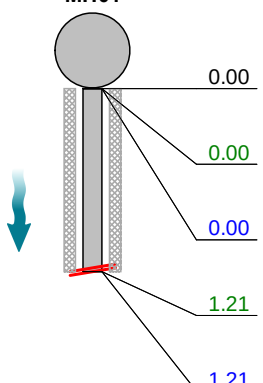
SUBSITE SURVEYS

Section Inspection - 06/11/2025 - MH01X

Item No. 1	Insp. No. 1	Date 06/11/25	Time 11:52	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH01X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Inspection Direction: Downstream		Upstream Node:	MH01
Road:	Inspected Length: 1.21 m		Upstream Pipe Depth:	
Location: Road	Total Length: 1.21 m		Downstream Node:	SA01
Surface Type:	Joint Length:		Downstream Pipe Depth:	
Use: Surface water	Pipe Shape: Circular			
Type of Pipe: Gravity drain/sewer	Dia/Height: 300 mm			
Flow Control: No flow control	Material: Concrete			
Year Constructed: Not Specified	Lining Type: No Lining			
Inspection Purpose: Routine inspection	Lining Material: No Lining			

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH01 							
	0.00	MH		Start node, manhole, reference: MH01	00:00:00		
	0.00	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:04	1	
	0.00	WL		Water level, 15% of the vertical dimension	00:00:07		
	1.21	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:14		4
	1.21	SA		Survey abandoned: SA01	00:01:14		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	8.3	10.0	5.0



Section Pictures - 06/11/2025 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH01X		



1, 00:00:04, 0.00 m

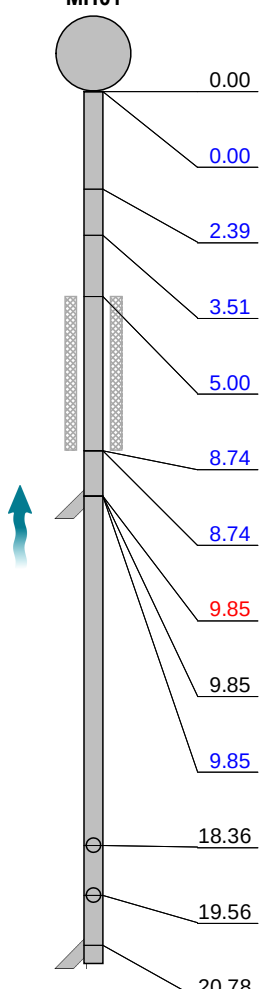
Settled deposits, fine, 20% cross-sectional area loss, start

Section Inspection - 06/11/2025 - SA02X

Item No. 2	Insp. No. 1	Date 06/11/25	Time 11:52	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SA02X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: SA02	
Road:		Inspected Length: 21.66 m		Upstream Pipe Depth:	
Location: Road		Total Length: 21.66 m		Downstream Node: MH01	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		225 mm	
Flow Control:	No flow control	Material:		Concrete	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

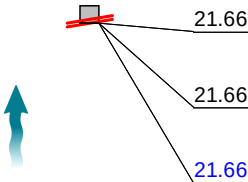
Comments:
Recommendations:

Scale:	1:184	Position [m]	Code	Observation	MPEG	Photo	Grade																																																																																				
Depth: m MH01  <table><tr><th>Position [m]</th><th>Code</th><th>Observation</th><th>MPEG</th><th>Photo</th><th>Grade</th></tr><tr><td>0.00</td><td>MH</td><td>Start node, manhole, reference: MH01</td><td>00:00:00</td><td></td><td></td></tr><tr><td>0.00</td><td>WL</td><td>Water level, 20% of the vertical dimension</td><td>00:00:03</td><td></td><td></td></tr><tr><td>2.39</td><td>WL</td><td>Water level, 30% of the vertical dimension</td><td>00:00:21</td><td></td><td></td></tr><tr><td>3.51</td><td>WL</td><td>Water level, 40% of the vertical dimension</td><td>00:00:34</td><td></td><td></td></tr><tr><td>5.00</td><td>S01</td><td>CUD Loss of vision, silt, start</td><td>00:00:45</td><td></td><td></td></tr><tr><td>8.74</td><td>F01</td><td>CUD Loss of vision, silt, finish</td><td>00:00:45</td><td></td><td></td></tr><tr><td>8.74</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:01:29</td><td></td><td></td></tr><tr><td>9.85</td><td>CM</td><td>Cracks, multiple from 12 o'clock to 12 o'clock</td><td>00:01:35</td><td>1</td><td>3 / 2</td></tr><tr><td>9.85</td><td>JN</td><td>Junction at 2 o'clock, 150mm dia</td><td>00:01:37</td><td>2</td><td></td></tr><tr><td>9.85</td><td>GP</td><td>General photograph taken at this point</td><td>00:01:44</td><td>3</td><td></td></tr><tr><td>18.36</td><td>JN</td><td>Junction at 12 o'clock, 150mm dia</td><td>00:03:05</td><td>4</td><td></td></tr><tr><td>19.56</td><td>JN</td><td>Junction at 12 o'clock, 150mm dia</td><td>00:03:22</td><td>5</td><td></td></tr><tr><td>20.78</td><td>JN</td><td>Junction at 3 o'clock, 150mm dia</td><td>00:03:35</td><td>6</td><td></td></tr></table>								Position [m]	Code	Observation	MPEG	Photo	Grade	0.00	MH	Start node, manhole, reference: MH01	00:00:00			0.00	WL	Water level, 20% of the vertical dimension	00:00:03			2.39	WL	Water level, 30% of the vertical dimension	00:00:21			3.51	WL	Water level, 40% of the vertical dimension	00:00:34			5.00	S01	CUD Loss of vision, silt, start	00:00:45			8.74	F01	CUD Loss of vision, silt, finish	00:00:45			8.74	WL	Water level, 5% of the vertical dimension	00:01:29			9.85	CM	Cracks, multiple from 12 o'clock to 12 o'clock	00:01:35	1	3 / 2	9.85	JN	Junction at 2 o'clock, 150mm dia	00:01:37	2		9.85	GP	General photograph taken at this point	00:01:44	3		18.36	JN	Junction at 12 o'clock, 150mm dia	00:03:05	4		19.56	JN	Junction at 12 o'clock, 150mm dia	00:03:22	5		20.78	JN	Junction at 3 o'clock, 150mm dia	00:03:35	6	
Position [m]	Code	Observation	MPEG	Photo	Grade																																																																																						
0.00	MH	Start node, manhole, reference: MH01	00:00:00																																																																																								
0.00	WL	Water level, 20% of the vertical dimension	00:00:03																																																																																								
2.39	WL	Water level, 30% of the vertical dimension	00:00:21																																																																																								
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5.00	S01	CUD Loss of vision, silt, start	00:00:45																																																																																								
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9.85	CM	Cracks, multiple from 12 o'clock to 12 o'clock	00:01:35	1	3 / 2																																																																																						
9.85	JN	Junction at 2 o'clock, 150mm dia	00:01:37	2																																																																																							
9.85	GP	General photograph taken at this point	00:01:44	3																																																																																							
18.36	JN	Junction at 12 o'clock, 150mm dia	00:03:05	4																																																																																							
19.56	JN	Junction at 12 o'clock, 150mm dia	00:03:22	5																																																																																							
20.78	JN	Junction at 3 o'clock, 150mm dia	00:03:35	6																																																																																							



Section Inspection - 06/11/2025 - SA02X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	1	06/11/25	11:52	Not Specified	No Rain Or Snow	No	SA02X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Not Specified		Not Specified		Vivax V-Cam 6	Not Specified	Not Specified	Not Specified

	Scale:	1:184	Position [m]	Code	Observation	MPEG	Photo	Grade	
			21.66	SC	Pipe size changes, new size(s), 150mm high	00:03:43	7		
			21.66	MCVC	Pipe material changes to vitrified clay at this point	00:03:53			
		21.66	SA	Survey abandoned: SA02	00:00:00				
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	40.0	1.8	40.0	3.0	1	1.0	0.0	1.0	2.0

Section Pictures - 06/11/2025 - SA02X

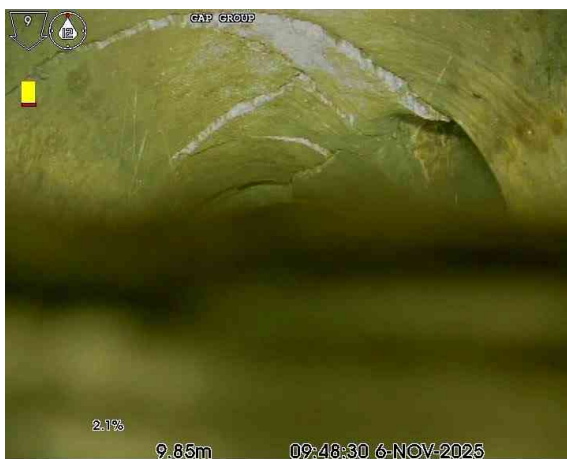
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SA02X		



1, 00:01:35, 9.85 m
Cracks, multiple from 12 o'clock to 12 o'clock



2, 00:01:37, 9.85 m
Junction at 2 o'clock, 150mm dia



3, 00:01:44, 9.85 m
General photograph taken at this point



4, 00:03:05, 18.36 m
Junction at 12 o'clock, 150mm dia

Section Pictures - 06/11/2025 - SA02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SA02X		



5, 00:03:22, 19.56 m
 Junction at 12 o'clock, 150mm dia



6, 00:03:35, 20.78 m
 Junction at 3 o'clock, 150mm dia



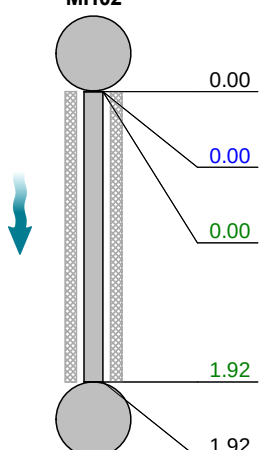
7, 00:03:43, 21.66 m
 Pipe size changes, new size(s), 150mm high

Section Inspection - 06/11/2025 - MH02X

Item No. 3	Insp. No. 1	Date 06/11/25	Time 11:59	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH02X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:		Inspection Direction: Downstream		Upstream Node: MH02	
Road:		Inspected Length: 1.92 m		Upstream Pipe Depth:	
Location: Road		Total Length: 1.92 m		Downstream Node: MH03	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		150 mm	
Flow Control:	No flow control	Material:		Vitrified clay	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																																				
Depth: m MH02  Depth: m MH03 <table><tr><th>Position [m]</th><th>Code</th><th>Observation</th><th>MPEG</th><th>Photo</th><th>Grade</th></tr><tr><td>0.00</td><td>MH</td><td>Start node, manhole, reference: MH02</td><td>00:00:00</td><td></td><td></td></tr><tr><td>0.00</td><td>WL</td><td>Water level, 0% of the vertical dimension</td><td>00:00:05</td><td></td><td></td></tr><tr><td>0.00</td><td>S01</td><td>DES Settled deposits, fine, 10% cross-sectional area loss, start</td><td>00:00:05</td><td>1</td><td></td></tr><tr><td>1.92</td><td>F01</td><td>DES Settled deposits, fine, 10% cross-sectional area loss, finish</td><td>00:00:21</td><td></td><td>3</td></tr><tr><td>1.92</td><td>MHF</td><td>Finish node, manhole, reference: MH03</td><td>00:00:21</td><td>2</td><td></td></tr></table>								Position [m]	Code	Observation	MPEG	Photo	Grade	0.00	MH	Start node, manhole, reference: MH02	00:00:00			0.00	WL	Water level, 0% of the vertical dimension	00:00:05			0.00	S01	DES Settled deposits, fine, 10% cross-sectional area loss, start	00:00:05	1		1.92	F01	DES Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:21		3	1.92	MHF	Finish node, manhole, reference: MH03	00:00:21	2	
Position [m]	Code	Observation	MPEG	Photo	Grade																																						
0.00	MH	Start node, manhole, reference: MH02	00:00:00																																								
0.00	WL	Water level, 0% of the vertical dimension	00:00:05																																								
0.00	S01	DES Settled deposits, fine, 10% cross-sectional area loss, start	00:00:05	1																																							
1.92	F01	DES Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:21		3																																						
1.92	MHF	Finish node, manhole, reference: MH03	00:00:21	2																																							

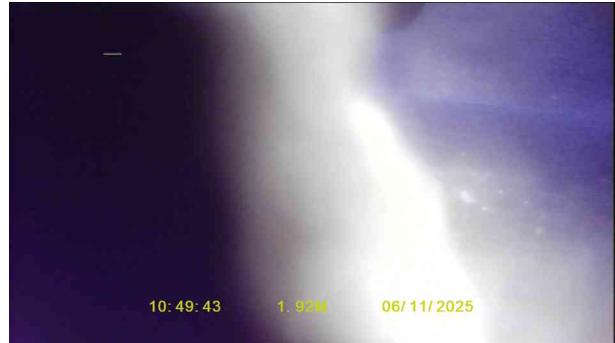
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	2.1	4.0	3.0

Section Pictures - 06/11/2025 - MH02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH02X		



1, 00:00:05, 0.00 m
 Settled deposits, fine, 10% cross-sectional area loss, start



2, 00:00:21, 1.92 m
 Finish node, manhole, reference: MH03



Section Inspection - 06/11/2025 - SA03X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	1	06/11/25	11:59	Not Specified	No Rain Or Snow	No	SA03X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Not Specified		Not Specified		Vivax V-Cam 6	Not Specified	Not Specified	Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: SA03	
Road:		Inspected Length: 3.76 m		Upstream Pipe Depth:	
Location: Road		Total Length: 3.76 m		Downstream Node: MH02LAT-A	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water			Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer			Dia/Height:	100 mm
Flow Control:	No flow control			Material:	Polyvinyl chloride
Year Constructed:	Not Specified			Lining Type:	No Lining
Inspection Purpose:	Routine inspection			Lining Material:	No Lining
Comments:					
Recommendations:					

Scale:

1:50

Position [m]

Code

Observation

MPEG

Photo

Grade

Depth: m

MH02LAT-A

0.00	MH	Start node, manhole, reference: MH02LAT-A	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:18		
0.10	JN	Junction at 6 o'clock, 100mm dia: BACKDROP	00:00:05	1	
3.76	DEC	Settled deposits, hard or compacted, 100% cross-sectional area loss: STONES	00:00:18	2	5
3.76	SA	Survey abandoned: SA03	00:00:18		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	10.0	2.7	10.0	5.0

Section Pictures - 06/11/2025 - SA03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	SA03X		



1, 00:00:05, 0.10 m
 Junction at 6 o'clock, 100mm dia, BACKDROP



2, 00:00:18, 3.76 m
 Settled deposits, hard or compacted, 100% cross-sectional
 area loss, STONES



Section Inspection - 06/11/2025 - SA04X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	06/11/25	11:59	Not Specified	No Rain Or Snow	No	SA04X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
Not Specified		Not Specified		Vivax V-Cam 6	Not Specified	Not Specified	Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: SA04	
Road:		Inspected Length: 3.26 m		Upstream Pipe Depth:	
Location: Road		Total Length: 3.26 m		Downstream Node: MH02	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		150 mm	
Flow Control:	No flow control	Material:		Vitrified clay	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH02							
		0.00	MH	Start node, manhole, reference: MH02	00:00:00		
		0.00	WL	Water level, 0% of the vertical dimension	00:00:04		
		0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:04	1
		3.26	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:21	3
		3.26	XP	Collapsed drain or sewer, 100% cross-sectional area loss	00:00:21	2	5
		3.26	SA	Survey abandoned: SA04	00:00:21		

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	165.0	50.6	165.0	5.0	1	2.0	2.5	8.0	3.0



Section Pictures - 06/11/2025 - SA04X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Upstream	SA04X		



1, 00:00:04, 0.00 m
Settled deposits, fine, 5% cross-sectional area loss, start



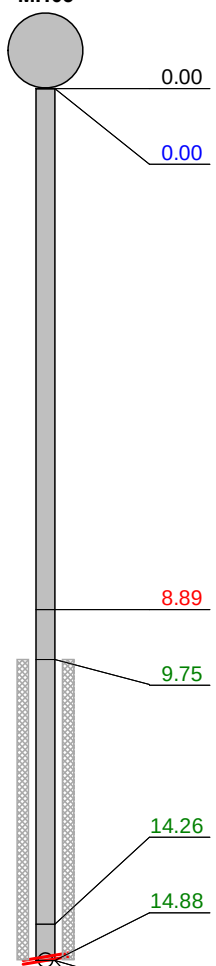
2, 00:00:21, 3.26 m
Collapsed drain or sewer, 100% cross-sectional area loss

Section Inspection - 06/11/2025 - MH03X

Item No. 6	Insp. No. 1	Date 06/11/25	Time 11:53	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH03X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:		Inspection Direction: Downstream		Upstream Node: MH03	
Road:		Inspected Length: 14.88 m		Upstream Pipe Depth:	
Location: Road		Total Length: 14.88 m		Downstream Node: SA05	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		450 mm	
Flow Control:	No flow control	Material:		Concrete	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

Comments:
Recommendations:

Scale: 1:129	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH03 						
	0.00	MH	Start node, manhole, reference: MH03	00:00:00		
	0.00	WL	Water level, 0% of the vertical dimension	00:00:13		
	8.89	JDL	Joint displaced, large	00:00:57	1	1 / 4
	9.75	S01	DES Settled deposits, fine, 15% cross-sectional area loss, start	00:01:08	2	
	14.26	OBB	Other obstacles, brick or masonry in invert at 6 o'clock, 20% cross-sectional area loss	00:02:21	3	5
	14.88	F01	DES Settled deposits, fine, 15% cross-sectional area loss, finish	00:02:21		3
	14.88	JN	Junction at 12 o'clock, 100mm dia	00:02:31	4	
	14.88	SA	Survey abandoned: SA05	00:02:21		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	0.1	2.0	1.0	3	12.0	1.8	27.0	5.0

Section Pictures - 06/11/2025 - MH03X

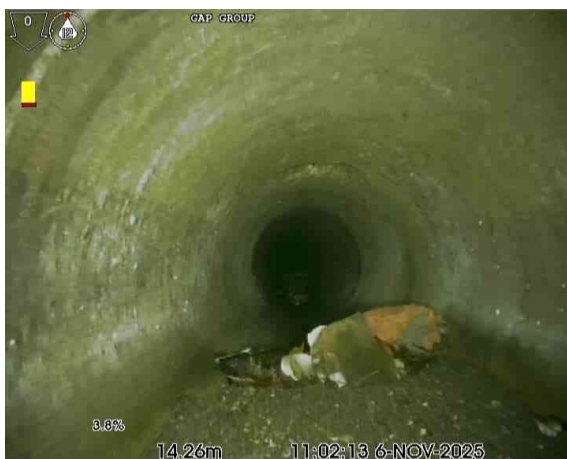
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	MH03X		



1, 00:00:57, 8.89 m
 Joint displaced, large



2, 00:01:08, 9.75 m
 Settled deposits, fine, 15% cross-sectional area loss, start



3, 00:02:21, 14.26 m
 Other obstacles, brick or masonry in invert at 6 o'clock, 20% cross-sectional area loss



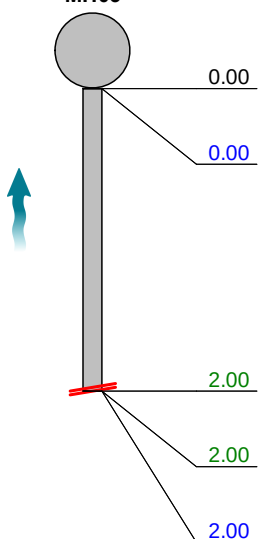
4, 00:02:31, 14.88 m
 Junction at 12 o'clock, 100mm dia

Section Inspection - 06/11/2025 - SA06X

Item No. 7	Insp. No. 1	Date 06/11/25	Time 11:52	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SA06X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: SA06	
Road:		Inspected Length: 2.00 m		Upstream Pipe Depth:	
Location: Road		Total Length: 2.00 m		Downstream Node: MH03	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		375 mm	
Flow Control:	No flow control	Material:		Concrete	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																																			
Depth: m MH03  <table> <tr> <td>0.00</td><td>MH</td><td>Start node, manhole, reference: MH03</td><td>00:00:00</td><td></td><td></td><td></td></tr> <tr> <td>0.00</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:00:06</td><td></td><td></td><td></td></tr> <tr> <td>2.00</td><td>OBB</td><td>Other obstacles, brick or masonry in invert at 6 o'clock, 10% cross-sectional area loss</td><td>00:00:06</td><td></td><td>1</td><td>5</td></tr> <tr> <td>2.00</td><td>DES</td><td>Settled deposits, fine, 10% cross-sectional area loss</td><td>00:02:33</td><td></td><td></td><td>3</td></tr> <tr> <td>2.00</td><td>SA</td><td>Survey abandoned: SA06</td><td>00:00:06</td><td></td><td></td><td></td></tr> </table>							0.00	MH	Start node, manhole, reference: MH03	00:00:00				0.00	WL	Water level, 5% of the vertical dimension	00:00:06				2.00	OBB	Other obstacles, brick or masonry in invert at 6 o'clock, 10% cross-sectional area loss	00:00:06		1	5	2.00	DES	Settled deposits, fine, 10% cross-sectional area loss	00:02:33			3	2.00	SA	Survey abandoned: SA06	00:00:06			
0.00	MH	Start node, manhole, reference: MH03	00:00:00																																						
0.00	WL	Water level, 5% of the vertical dimension	00:00:06																																						
2.00	OBB	Other obstacles, brick or masonry in invert at 6 o'clock, 10% cross-sectional area loss	00:00:06		1	5																																			
2.00	DES	Settled deposits, fine, 10% cross-sectional area loss	00:02:33			3																																			
2.00	SA	Survey abandoned: SA06	00:00:06																																						

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	12.0	6.0	12.0	5.0

Section Pictures - 06/11/2025 - SA06X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Upstream	SA06X		



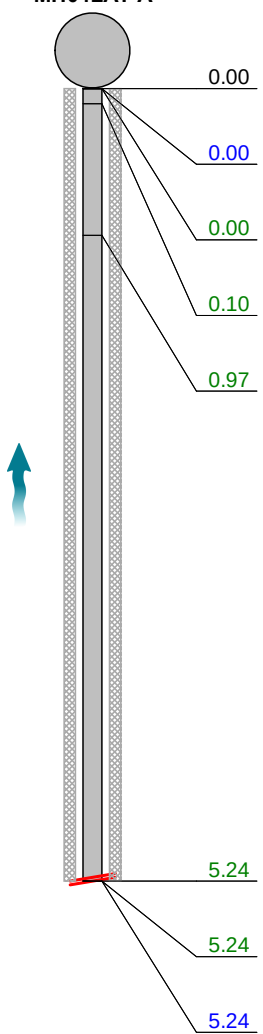
1, 00:00:06, 2.00 m
 Other obstacles, brick or masonry in invert at 6 o'clock, 10% cross-sectional area loss

Section Inspection - 06/11/2025 - SA07X

Item No. 8	Insp. No. 1	Date 06/11/25	Time 11:59	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SA07X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: SA07	
Road:		Inspected Length: 5.24 m		Upstream Pipe Depth:	
Location: Road		Total Length: 5.24 m		Downstream Node: MH04LAT-A	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		150 mm	
Flow Control:	No flow control	Material:		Vitrified clay	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

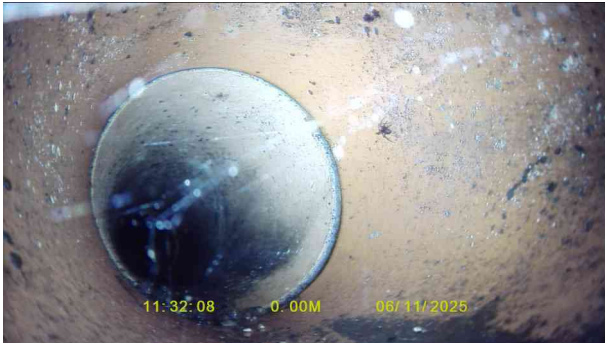
Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																																																								
Depth: m MH04LAT-A  <table> <tr> <td>0.00</td><td>MH</td><td></td><td>Start node, manhole, reference: MH04LAT-A</td><td>00:00:00</td><td></td><td></td></tr> <tr> <td>0.00</td><td>WL</td><td></td><td>Water level, 0% of the vertical dimension</td><td>00:00:05</td><td></td><td></td></tr> <tr> <td>0.00</td><td>S01</td><td>DES</td><td>Settled deposits, fine, 5% cross-sectional area loss, start</td><td>00:00:05</td><td></td><td></td></tr> <tr> <td>0.10</td><td>LL</td><td></td><td>Line deviates left</td><td>00:00:05</td><td>1</td><td></td></tr> <tr> <td>0.97</td><td>OBB</td><td></td><td>Other obstacles, brick or masonry in invert at 6 o'clock, 30% cross-sectional area loss</td><td>00:00:10</td><td>2</td><td>5</td></tr> <tr> <td>5.24</td><td>F01</td><td>DES</td><td>Settled deposits, fine, 5% cross-sectional area loss, finish</td><td>00:00:50</td><td></td><td>3</td></tr> <tr> <td>5.24</td><td>OBB</td><td></td><td>Other obstacles, brick or masonry in invert at 6 o'clock, 100% cross-sectional area loss</td><td>00:00:50</td><td>3</td><td>5</td></tr> <tr> <td>5.24</td><td>SA</td><td></td><td>Survey abandoned: SA07</td><td>00:00:50</td><td></td><td></td></tr> </table>							0.00	MH		Start node, manhole, reference: MH04LAT-A	00:00:00			0.00	WL		Water level, 0% of the vertical dimension	00:00:05			0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:05			0.10	LL		Line deviates left	00:00:05	1		0.97	OBB		Other obstacles, brick or masonry in invert at 6 o'clock, 30% cross-sectional area loss	00:00:10	2	5	5.24	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:50		3	5.24	OBB		Other obstacles, brick or masonry in invert at 6 o'clock, 100% cross-sectional area loss	00:00:50	3	5	5.24	SA		Survey abandoned: SA07	00:00:50		
0.00	MH		Start node, manhole, reference: MH04LAT-A	00:00:00																																																										
0.00	WL		Water level, 0% of the vertical dimension	00:00:05																																																										
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:05																																																										
0.10	LL		Line deviates left	00:00:05	1																																																									
0.97	OBB		Other obstacles, brick or masonry in invert at 6 o'clock, 30% cross-sectional area loss	00:00:10	2	5																																																								
5.24	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:50		3																																																								
5.24	OBB		Other obstacles, brick or masonry in invert at 6 o'clock, 100% cross-sectional area loss	00:00:50	3	5																																																								
5.24	SA		Survey abandoned: SA07	00:00:50																																																										

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	3	12.0	6.1	32.0	5.0

Section Pictures - 06/11/2025 - SA07X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Upstream	SA07X		



1, 00:00:05, 0.10 m
 Line deviates left



2, 00:00:10, 0.97 m
 Other obstacles, brick or masonry in invert at 6 o'clock, 30% cross-sectional area loss



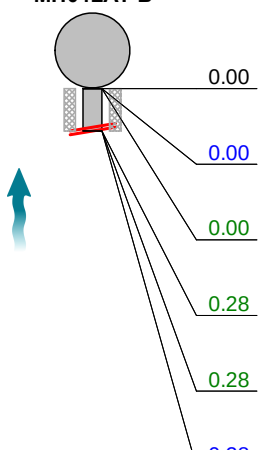
3, 00:00:50, 5.24 m
 Other obstacles, brick or masonry in invert at 6 o'clock, 100% cross-sectional area loss

Section Inspection - 06/11/2025 - SA08X

Item No. 9	Insp. No. 1	Date 06/11/25	Time 11:59	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SA08X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: SA08	
Road:		Inspected Length: 0.28 m		Upstream Pipe Depth:	
Location: Road		Total Length: 0.28 m		Downstream Node: MH04LAT-B	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		150 mm	
Flow Control:	No flow control	Material:		Vitrified clay	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH04LAT-B 						
	0.00	MH	Start node, manhole, reference: MH04LAT-B	00:00:00		
	0.00	WL	Water level, 0% of the vertical dimension	00:00:05		
	0.00	S01	DES Settled deposits, fine, 20% cross-sectional area loss, start	00:00:05	1	
	0.28	F01	DES Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:19		4
	0.28	DES	Settled deposits, fine, 100% cross-sectional area loss	00:00:19	2	5
	0.28	SA	Survey abandoned: SA08	00:00:19		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	10.0	53.6	15.0	5.0

Section Pictures - 06/11/2025 - SA08X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	SA08X		



1, 00:00:05, 0.00 m
 Settled deposits, fine, 20% cross-sectional area loss, start



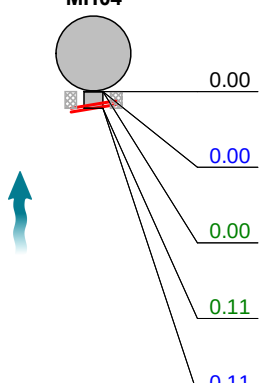
2, 00:00:19, 0.28 m
 Settled deposits, fine, 100% cross-sectional area loss

Section Inspection - 06/11/2025 - SA09X

Item No. 10	Insp. No. 1	Date 06/11/25	Time 11:53	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SA09X
Operator Not Specified		Vehicle Not Specified		Camera Vivax V-Cam 6	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:		Inspection Direction: Upstream		Upstream Node: SA09	
Road:		Inspected Length: 0.11 m		Upstream Pipe Depth:	
Location: Road		Total Length: 0.11 m		Downstream Node: MH04	
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:		Circular	
Type of Pipe:	Gravity drain/sewer	Dia/Height:		300 mm	
Flow Control:	No flow control	Material:		Concrete	
Year Constructed:	Not Specified	Lining Type:		No Lining	
Inspection Purpose:	Routine inspection	Lining Material:		No Lining	

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																																								
Depth: m MH04  <table><tr><td>0.00</td><td>MH</td><td></td><td>Start node, manhole, reference: MH04</td><td>00:00:00</td><td></td><td></td><td></td></tr><tr><td>0.00</td><td>WL</td><td></td><td>Water level, 0% of the vertical dimension</td><td>00:00:03</td><td></td><td></td><td></td></tr><tr><td>0.00</td><td>S01</td><td>DES</td><td>Settled deposits, fine, 25% cross-sectional area loss, start</td><td>00:00:03</td><td></td><td>1</td><td></td></tr><tr><td>0.11</td><td>F01</td><td>DES</td><td>Settled deposits, fine, 25% cross-sectional area loss, finish</td><td>00:01:30</td><td></td><td></td><td>4</td></tr><tr><td>0.11</td><td>SA</td><td></td><td>Survey abandoned: SA09</td><td>00:01:30</td><td></td><td></td><td></td></tr></table>								0.00	MH		Start node, manhole, reference: MH04	00:00:00				0.00	WL		Water level, 0% of the vertical dimension	00:00:03				0.00	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:03		1		0.11	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:01:30			4	0.11	SA		Survey abandoned: SA09	00:01:30			
0.00	MH		Start node, manhole, reference: MH04	00:00:00																																											
0.00	WL		Water level, 0% of the vertical dimension	00:00:03																																											
0.00	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:03		1																																									
0.11	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:01:30			4																																								
0.11	SA		Survey abandoned: SA09	00:01:30																																											

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	45.5	5.0	5.0



Section Pictures - 06/11/2025 - SA09X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Upstream	SA09X		



1, 00:00:03, 0.00 m

Settled deposits, fine, 25% cross-sectional area loss, start