IWJS

INDUSTRIAL WATER JETTING SYSTEMS

CCTV SURVEY INSPECTION REPORT

Client:	Kellen Homes Limited
Location:	Bennett St, Manchester
Date:	18.07.2022

Industrial Water Jetting Systems Ltd

Dickens House, Old Stowmarket Road, Woolpit, Bury St. Edmunds IP22 9QS

Tel: 01359 242606 Fax: 01359 242 621

Web: www.iwjs.co.uk Email: surveys@iwjs.co.uk

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

WEB PROJECT
CLICK TO OPEN THIS PROJECT

Project

Project Name:	KELLEN_HOMES_BENNETT_STREET_MANCHESTER_14_07_2022
Project Date:	14/07/2022
Inspection Standard:	MSCC5 Sewers & Drainage GB (SRM5 Scoring)

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Table of Contents

Project Name	Project Number	Project Date
KELLEN_HOMES_BENNETT_STREET_MANCHESTER_14_07_2022		14/07/2022

Project Information P-1
Section Item 2: SW4 > SW4A (SW4X) 1
Section Item 3: SW4A > DOWNSTREAM (SW4AX) 3
Section Item 6: SW2 > SW4 (SW2X) 6
Section Item 7: SW5 > SW2 (SW5X) 8
Section Item 8: UPSTREAM > SW5 (UPSTREAMX) 10
Section Item 9: SW4 > DOWNSTREAM (SW4X) 16
Section Item 10: SW1 > DOWNSTREAM (SW1X) 18
Section Item 11: SW1A > SW1 (SW1AX) 22
Section Item 12: SW3 > SW1A (SW3X) 26
Section Item 13: UPSTREAM > SW3 (UPSTREAMX) 28

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Project Information

Project Name	Project Number	Project Date
KELLEN_HOMES_BENNETT_STREET_MANCHESTER_14_07_2022		14/07/2022

Site

Company: Kellen Homes Limited
Street: Bennett Street
Town or City: Manchester
County: Greater Manchester
Post Code: M12 5NL

Contractor

Company: IWJS
Contact: Jake Boydell
Department: Business Development Manager North
Street: Unit 10 Huntsman Drive
Town or City: North Bank Industrial Estate, Irlam
County: Greater Manchester
Post Code: M44 5EG
Phone: 0161 776 0499
Mobile: 07799803317
Email: jake.boydell@iwjs.co.uk

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 14/07/2022 - SW4X

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	14/07/22	10:00	198401	No Rain Or Snow	Yes	SW4X

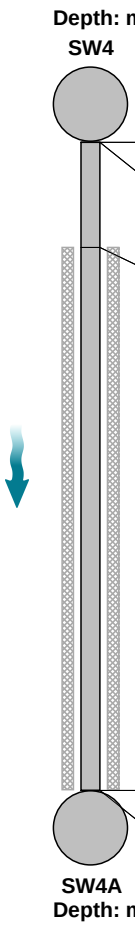
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Downstream	**Upstream Node:**	SW4
Road:	Bennett Street	**Inspected Length:**	4.29 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	4.29 m	**Downstream Node:**	SW4A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Rectangular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,200 mm
Flow Control:	No flow control	**Material:**	Brick
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
0.00		MH	Start node, manhole, reference: SW4	00:00:04		
0.00		WL	Water level, 5% of the vertical dimension	00:00:05	SW4X_0699012d-c2af-438c-9a	
0.70	S01	DEE	Attached deposits, encrustation from 9 o'clock to 3 o'clock, 5% cross-sectional area loss, start	00:00:14	SW4X_19342451-eba2-4aeb-9	
4.29	F01	DEE	Attached deposits, encrustation from 9 o'clock to 3 o'clock, 5% cross-sectional area loss, finish	00:00:43		3
4.29		MHF	Finish node, manhole, reference: SW4A	00:00:44	SW4X_f82995f1-0c30-4031-b2	

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	1.9	8.0	3.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 14/07/2022 - SW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Downstream	SW4X	198401	198401

SW4X_0699012d-c2af-438c-9a92-8f499360e6f1_20220714_100105_086.jpg, 00:00:05, 0.00 m
Water level, 5% of the vertical dimension

SW4X_19342451-eba2-4aeb-90f1-b38667470ab7_20220714_100113_847.jpg, 00:00:14, 0.70 m
Attached deposits, encrustation from 9 o'clock to 3 o'clock, 5% cross-sectional area loss, start

SW4X_f82995f1-0c30-4031-b276-b723afe879cc_20220714_100152_117.jpg, 00:00:44, 4.29 m
Finish node, manhole, reference: SW4A

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 14/07/2022 - SW4AX

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	14/07/22	10:03	198401	No Rain Or Snow	Yes	SW4AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

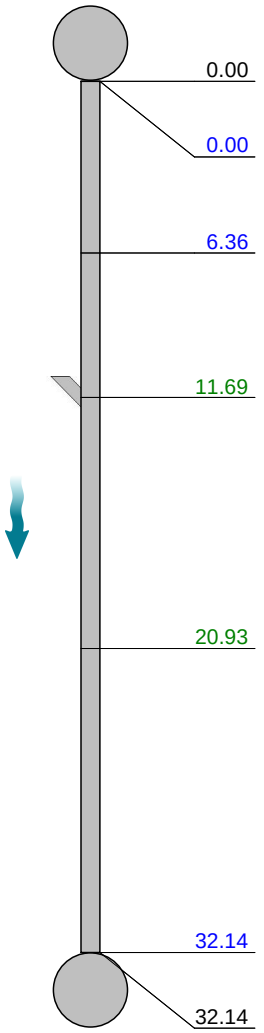
Town or Village:	Manchester	**Inspection Direction:**	Downstream	**Upstream Node:**	SW4A
Road:	Bennett Street	**Inspected Length:**	32.14 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	32.14 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Rectangular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,200 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:279

Depth: m
SW4A



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SW4A	00:00:14		
0.00	WL	Water level, 5% of the vertical dimension	00:00:14	SW4AX_d7a7f437-fa09-4c72-9	
6.36	REM	General remark: BURRIED & UNCHARTED MH	00:01:11	SW4AX_53ac047a-fb86-4483-	
11.69	CXI	Connection defective, connecting pipe is intruding at 1 o'clock, 150mm dia, intrusion: 5%	00:02:15	SW4AX_5ae7b2b5-66d7-4b22-	3
20.93	LR	Line deviates right	00:03:21	SW4AX_c84c1016-437e-471c-	
32.14	REM	General remark: JOINTS UP WITH THE D/S FROM MH SW1	00:05:47	SW4AX_13e2b733-7b1f-4afc-9	
32.14	OCF	Finish node, other special chamber, reference: DOWNSTREAM: MEETS UP WITH THE D/S FROM MH SW01	00:06:31	SW4AX_0de353f5-b381-4786-	

DOWNSTREAM
Depth: m

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	0.1	2.0	3.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 14/07/2022 - SW4AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	SW4AX	198401	198401

SW4AX_d7a7f437-fa09-4c72-9474-685f673f149a_20220714_100311_226.jpg, 00:00:14, 0.00 m
Water level, 5% of the vertical dimension

SW4AX_53ac047a-fb86-4483-b433-5af403bff074_20220714_100413_580.jpg, 00:01:11, 6.36 m
General remark, BURRIED & UNCHARTED MH

SW4AX_5ae7b2b5-66d7-4b22-b059-5b9f368d99a0_20220714_100536_352.jpg, 00:02:15, 11.69 m
Connection defective, connecting pipe is intruding at 1 o'clock, 150mm dia, intrusion: 5%

SW4AX_c84c1016-437e-471c-9877-f595c03dc179_20220714_100647_964.jpg, 00:03:21, 20.93 m
Line deviates right

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 14/07/2022 - SW4AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	SW4AX	198401	198401

SW4AX_13e2b733-7b1f-4afc-997a-a5fdcf8bd8a1_20220714_100929_571.jpg, 00:05:47, 32.14 m
General remark, JOINTS UP WITH THE D/S FROM MH SW1

SW4AX_0de353f5-b381-4786-9876-cd161d4f69a8_20220714_101113_509.jpg, 00:06:31, 32.14 m
Finish node, other special chamber, reference: DOWNSTREAM, MEETS UP WITH THE D/S FROM MH SW01

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - SW2X

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	2	15/07/22	10:00	198401	No Rain Or Snow	Yes	SW2X

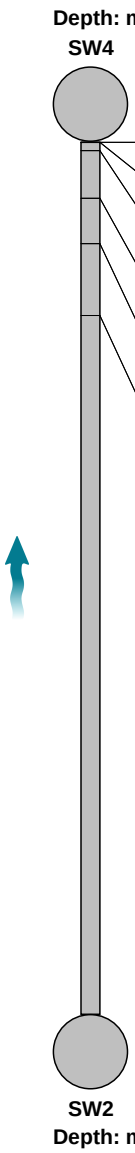
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	SW2
Road:	Bennett Street	**Inspected Length:**	17.24 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	86.74 m	**Downstream Node:**	SW4
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Rectangular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,200 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:752



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	OC	Start node, other special chamber, reference: SW4: WHERE CRALWER GOT STUCK	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:07		
0.89	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:10	SW2X_b4adb64d-9b77-4045-8	3
5.58	GP	General photograph taken at this point	00:00:53	SW2X_a88a306d-51f2-4a36-a1	
10.10	GP	General photograph taken at this point	00:03:30	SW2X_758cbab1-3929-4c78-9	
17.24	MHF	Finish node, manhole, reference: SW2	00:05:23	SW2X_03b77516-945e-4afe-8f	

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	0.0	2.0	3.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	SW2X	198401	198401

SW2X_b4adb64d-9b77-4045-81e2-e264cd73f99f_20220715_100039_278.jpg, 00:00:10, 0.89 m
Settled deposits, fine, 10% cross-sectional area loss

SW2X_a88a306d-51f2-4a36-a121-17afa1dd8b30_20220715_100125_460.jpg, 00:00:53, 5.58 m
General photograph taken at this point

SW2X_758cbab1-3929-4c78-9e62-1d542afddf8b_20220715_100531_529.jpg, 00:03:30, 10.10 m
General photograph taken at this point

SW2X_03b77516-945e-4afe-8fc8-261587b59a41_20220715_100736_650.jpg, 00:05:23, 17.24 m
Finish node, manhole, reference: SW2

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - SW5X

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	15/07/22	10:09	198401	No Rain Or Snow	Yes	SW5X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

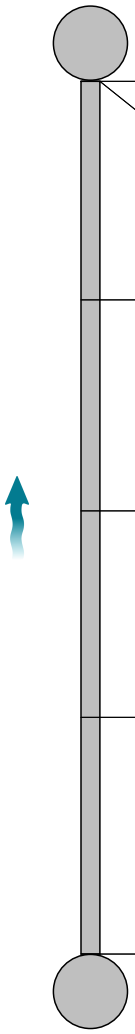
Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	SW5
Road:	Bennett Street	**Inspected Length:**	20.32 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	20.32 m	**Downstream Node:**	SW2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Rectangular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,200 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: 1:176

Depth: m
SW2



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SW2	00:00:05		
0.00	WL	Water level, 10% of the vertical dimension	00:00:05	SW5X_9b1566c9-dd26-4eca-9	
5.09	GP	General photograph taken at this point	00:00:58	SW5X_8670937f-c4e4-4a56-a	
10.01	GP	General photograph taken at this point	00:02:54	SW5X_ffb76b95-5dcd-4cbd-b1	
14.81	GP	General photograph taken at this point	00:04:03	SW5X_ac348325-cd20-46ec-8	
20.32	MHF	Finish node, manhole, reference: SW5	00:07:33		

SW5
Depth: m

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	0	0.0	0.0	0.0	1.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	SW5X	198401	198401

SW5X_9b1566c9-dd26-4eca-9d5e-56e5bd2f8793_20220715_100950_742.jpg, 00:00:05, 0.00 m
Water level, 10% of the vertical dimension

SW5X_8670937f-c4e4-4a56-a834-31debdd7b5d8_20220715_101046_001.jpg, 00:00:58, 5.09 m
General photograph taken at this point

SW5X_ffb76b95-5dcd-4cbd-b125-3bdd3bf5803a_20220715_101240_867.jpg, 00:02:54, 10.01 m
General photograph taken at this point

SW5X_ac348325-cd20-46ec-826f-070bdde3b9d5_20220715_101353_898.jpg, 00:04:03, 14.81 m
General photograph taken at this point

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - UPSTREAMX

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	15/07/22	10:19	198401	No Rain Or Snow	Yes	UPSTREAMX

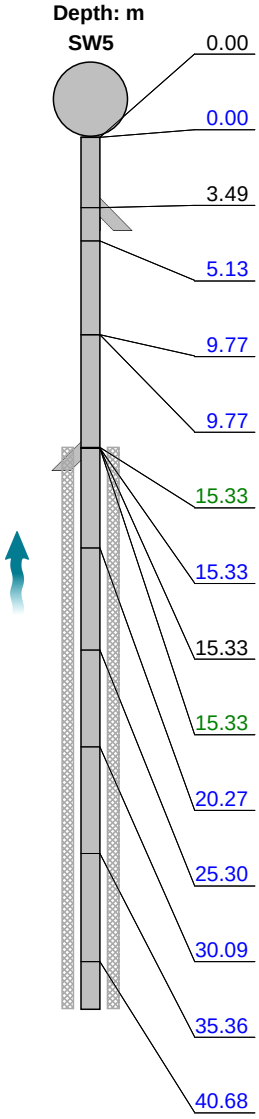
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Bennett Street	**Inspected Length:**	55.20 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	55.20 m	**Downstream Node:**	SW5
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,200 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:373



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: SW5	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:00	UPSTREAMX_0f054834-1235-	
3.49		CN	Connection other than junction at 10 o'clock, 150mm dia	00:00:29	UPSTREAMX_dcff5fe2-aeff-49	
5.13		GP	General photograph taken at this point	00:00:42	UPSTREAMX_53f9bc72-ce28-	
9.77		REM	General remark: UNCHARTED BURRIED MH	00:01:53	UPSTREAMX_d1bb645d-c35e-	
9.77		GP	General photograph taken at this point	00:02:03	UPSTREAMX_3ed8743e-5dce-	
15.33	S01	DEE	Attached deposits, encrustation from 12 o'clock to 12 o'clock, 5% cross-sectional area loss, start	00:05:48	UPSTREAMX_6f20c8d0-bca2-	
15.33		GP	General photograph taken at this point	00:05:07	UPSTREAMX_54fd5ad1-e941-	
15.33		CN	Connection other than junction at 2 o'clock, 150mm dia	00:05:42		
15.33		DES	Settled deposits, fine, 10% cross-sectional area loss	00:05:53	UPSTREAMX_116c7368-fcb8-4	3
20.27		GP	General photograph taken at this point	00:06:37	UPSTREAMX_d63239b9-6e76-	
25.30		GP	General photograph taken at this point	00:08:12	UPSTREAMX_ee5c58aa-04dd-	
30.09		GP	General photograph taken at this point	00:09:42	UPSTREAMX_fe096dfd-6b5a-4	
35.36		GP	General photograph taken at this point	00:11:50	UPSTREAMX_377dde82-9c8f-4	
40.68		GP	General photograph taken at this point	00:13:21	UPSTREAMX_4627e577-a44f-4	

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

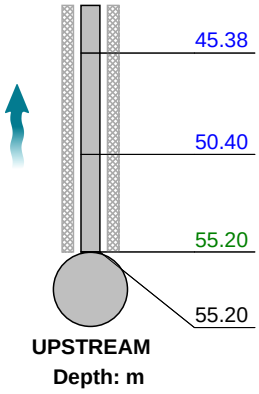
Section Inspection - 15/07/2022 - UPSTREAMX

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	15/07/22	10:19	198401	No Rain Or Snow	Yes	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

Scale: 1:373



Position [m]		Code	Observation	MPEG	Photo	Grade
45.38		GP	General photograph taken at this point	00:15:04	UPSTREAMX_589f1e78-4d4f-4	
50.40		GP	General photograph taken at this point	00:16:46	UPSTREAMX_461cc588-6a6f-4	
55.20	F01	DEE	Attached deposits, encrustation from 12 o'clock to 12 o'clock, 5% cross-sectional area loss, finish	00:17:57		3
55.20		OCF	Finish node, other special chamber, reference: UPSTREAM: OFF SITE BOUNDRY	00:17:58	UPSTREAMX_f8c24418-a13f-4	

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	4.0	1.5	82.0	3.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - UPSTREAMX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	UPSTREAMX	198401	198401

UPSTREAMX_0f054834-1235-4c44-bcf4-d188cfb6a589_20220715_101954_356.jpg, 00:00:00, 0.00 m
Water level, 10% of the vertical dimension

UPSTREAMX_dcff5fe2-aeff-490b-995b-ba493665b4b6_20220715_102025_082.jpg, 00:00:29, 3.49 m
Connection other than junction at 10 o'clock, 150mm dia

UPSTREAMX_53f9bc72-ce28-401c-8c9b-9d96c9672c19_20220715_102041_295.jpg, 00:00:42, 5.13 m
General photograph taken at this point

UPSTREAMX_d1bb645d-c35e-4a0e-9bdf-6efff4b8fb1d_20220715_102205_405.jpg, 00:01:53, 9.77 m
General remark, UNCHARTED BURRIED MH

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - UPSTREAMX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	UPSTREAMX	198401	198401

UPSTREAMX_3ed8743e-5dce-4b7d-87ee-8c3bde5c8864_20220715_102215_180.jpg, 00:02:03, 9.77 m
General photograph taken at this point

UPSTREAMX_6f20c8d0-bca2-4553-87b5-30119180304b_20220715_102623_179.jpg, 00:05:48, 15.33 m
Attached deposits, encrustation from 12 o'clock to 12 o'clock, 5% cross-sectional area loss, start

UPSTREAMX_54fd5ad1-e941-401a-bc7d-19417c17db05_20220715_102522_812.jpg, 00:05:07, 15.33 m
General photograph taken at this point

UPSTREAMX_116c7368-fcb8-46bb-ac8c-c52e9c534ca7_20220715_102632_146.jpg, 00:05:53, 15.33 m
Settled deposits, fine, 10% cross-sectional area loss

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - UPSTREAMX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	UPSTREAMX	198401	198401

UPSTREAMX_d63239b9-6e76-4800-bd75-17ec02ce7e3a_20220715_102717_530.jpg, 00:06:37, 20.27 m
General photograph taken at this point

UPSTREAMX_ee5c58aa-04dd-42f0-826e-726aab0f705c_20220715_102855_119.jpg, 00:08:12, 25.30 m
General photograph taken at this point

UPSTREAMX_fe096dfd-6b5a-4f8c-9994-1d744dd0d43c_20220715_103033_021.jpg, 00:09:42, 30.09 m
General photograph taken at this point

UPSTREAMX_377dde82-9c8f-4f1f-a704-8ae6e5bb81a1_20220715_103244_452.jpg, 00:11:50, 35.36 m
General photograph taken at this point

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - UPSTREAMX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	UPSTREAMX	198401	198401

UPSTREAMX_4627e577-a44f-49cc-95c4-22fb50ca54c9_20220715_103420_259.jpg, 00:13:21, 40.68 m
General photograph taken at this point

UPSTREAMX_589f1e78-4d4f-4769-8d97-9b2df3d40be7_20220715_103607_194.jpg, 00:15:04, 45.38 m
General photograph taken at this point

UPSTREAMX_461cc588-6a6f-4723-8910-17877d4022d1_20220715_103753_497.jpg, 00:16:46, 50.40 m
General photograph taken at this point

UPSTREAMX_f8c24418-a13f-4c55-a70c-192bd851e9d4_20220715_103934_959.jpg, 00:17:58, 55.20 m
Finish node, other special chamber, reference: UPSTREAM, OFF SITE BOUNDRY

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - SW4X

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	15/07/22	10:59	198401	No Rain Or Snow	Yes	SW4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

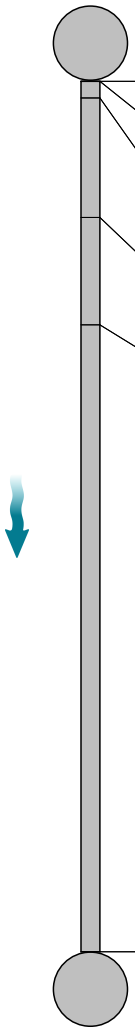
Town or Village:	Manchester	**Inspection Direction:**	Downstream	**Upstream Node:**	SW4
Road:	Bennett Street	**Inspected Length:**	36.28 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	36.28 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,200 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: 1:315

Depth: m
SW4



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SW4	00:00:03		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.70	DEE	Attached deposits, encrustation from 12 o'clock to 12 o'clock, 10% cross-sectional area loss	00:00:07	SW4X_c77be944-c213-405d-9	3
5.67	GP	General photograph taken at this point	00:01:40	SW4X_7ba24df5-5b44-43ee-a	
10.16	GP	General photograph taken at this point	00:02:56	SW4X_92763442-bbf4-4b88-b9	
36.28	OCF	Finish node, other special chamber, reference: DOWNSTREAM: DOWNSTREAM	00:08:28	SW4X_cc0334c9-a616-4d7a-b	

DOWNSTREAM
Depth: m

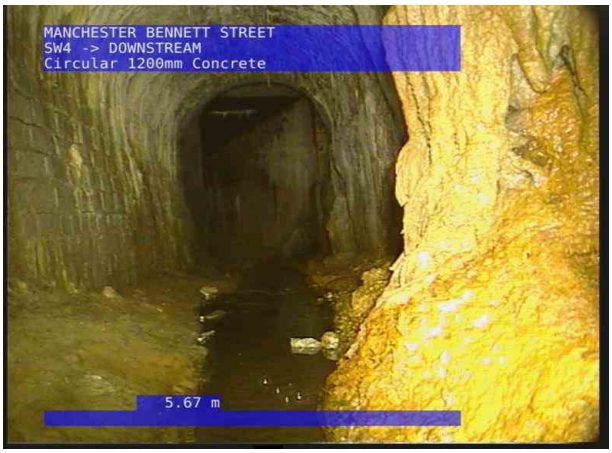
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	0.1	2.0	3.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

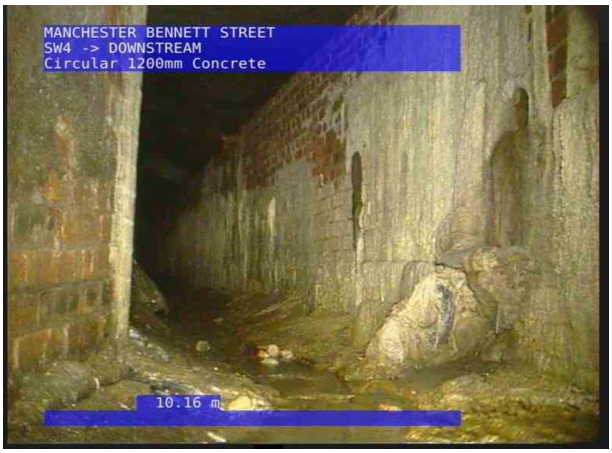
Section Pictures - 15/07/2022 - SW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Downstream	SW4X	198401	198401

SW4X_c77be944-c213-405d-9b54-fc652ab781be_20220715_105917_832.jpg, 00:00:07, 0.70 m
Attached deposits, encrustation from 12 o'clock to 12 o'clock, 10% cross-sectional area loss



SW4X_7ba24df5-5b44-43ee-a792-b98ed0a69942_20220715_110051_763.jpg, 00:01:40, 5.67 m
General photograph taken at this point



SW4X_92763442-bbf4-4b88-b98d-022e9bda8b71_20220715_110210_595.jpg, 00:02:56, 10.16 m
General photograph taken at this point

SW4X_cc0334c9-a616-4d7a-b5a4-fc2cd2ed6b95_20220715_110755_523.jpg, 00:08:28, 36.28 m
Finish node, other special chamber, reference: DOWNSTREAM, DOWNSTREAM

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - SW1X

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	15/07/22	11:29	198401	No Rain Or Snow	Yes	SW1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

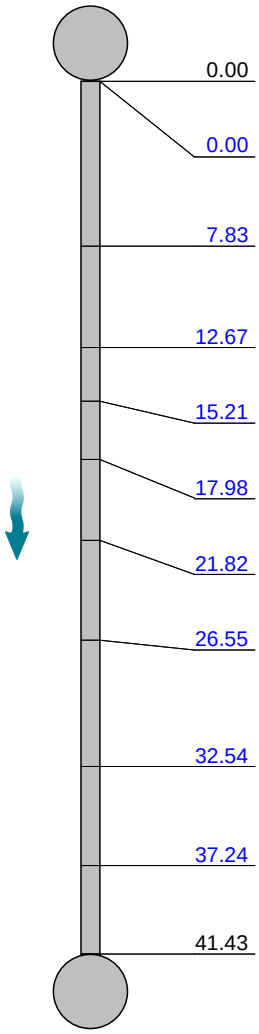
Town or Village:	Manchester	**Inspection Direction:**	Downstream	**Upstream Node:**	SW1
Road:	Bennett Street	**Inspected Length:**	41.43 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	41.43 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	2,400 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:359

Depth: m
SW1



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SW1	00:00:02		
0.00	WL	Water level, 20% of the vertical dimension	00:00:02	SW1X_1ed9bc55-95c4-4458-8	
7.83	GP	General photograph taken at this point	00:03:51	SW1X_9257f822-01cf-4014-b6	
12.67	GP	General photograph taken at this point	00:07:08	SW1X_5bb90396-fba2-4a5d-b	
15.21	GP	General photograph taken at this point	00:10:08	SW1X_a35454b6-14a9-4a56-a	
17.98	GP	General photograph taken at this point	00:11:46	SW1X_636893ad-f8cd-40c8-8	
21.82	GP	General photograph taken at this point	00:12:21	SW1X_a41dd9a9-fab3-46ce-a	
26.55	GP	General photograph taken at this point	00:13:17	SW1X_ad9a7067-7dbf-4df6-8e	
32.54	GP	General photograph taken at this point	00:14:10	SW1X_47b922af-f3e6-4b0d-b6	
37.24	GP	General photograph taken at this point	00:15:15	SW1X_55464ff8-b883-4186-b7	
41.43	OCF	Finish node, other special chamber, reference: DOWNSTREAM: PAST SITE BROUNDRY	00:16:17	SW1X_1c0b4acb-78a6-4cd2-9	

DOWNSTREAM
Depth: m

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	0	0.0	0.0	0.0	1.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	SW1X	198401	198401

SW1X_1ed9bc55-95c4-4458-8aa1-46cdaa95485a_20220715_112934_534.jpg, 00:00:02, 0.00 m
Water level, 20% of the vertical dimension

SW1X_9257f822-01cf-4014-b656-a857d9433486_20220715_113351_988.jpg, 00:03:51, 7.83 m
General photograph taken at this point

SW1X_5bb90396-fba2-4a5d-b97a-1328319498e6_20220715_113712_138.jpg, 00:07:08, 12.67 m
General photograph taken at this point

SW1X_a35454b6-14a9-4a56-abbf-817d6332991f_20220715_114015_690.jpg, 00:10:08, 15.21 m
General photograph taken at this point

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	SW1X	198401	198401

SW1X_636893ad-f8cd-40c8-821c-0b3c21f6783e_20220715_114156_760.jpg, 00:11:46, 17.98 m
General photograph taken at this point

SW1X_a41dd9a9-fab3-46ce-ae26-fdd6bd359823_20220715_114235_525.jpg, 00:12:21, 21.82 m
General photograph taken at this point

SW1X_ad9a7067-7dbf-4df6-8e7c-9b373cc614cb_20220715_114335_912.jpg, 00:13:17, 26.55 m
General photograph taken at this point

SW1X_47b922af-f3e6-4b0d-b650-1ec4181b9c74_20220715_114431_974.jpg, 00:14:10, 32.54 m
General photograph taken at this point

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	SW1X	198401	198401

SW1X_55464ff8-b883-4186-b7b8-8c1bd94defbc_20220715_114541_182.jpg, 00:15:15, 37.24 m
General photograph taken at this point

SW1X_1c0b4acb-78a6-4cd2-92f4-c5eb4298fc5d_20220715_114657_886.jpg, 00:16:17, 41.43 m
Finish node, other special chamber, reference:
DOWNSTREAM, PAST SITE BROUNDRY

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - SW1AX

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	15/07/22	11:52	198401	No Rain Or Snow	Yes	SW1AX

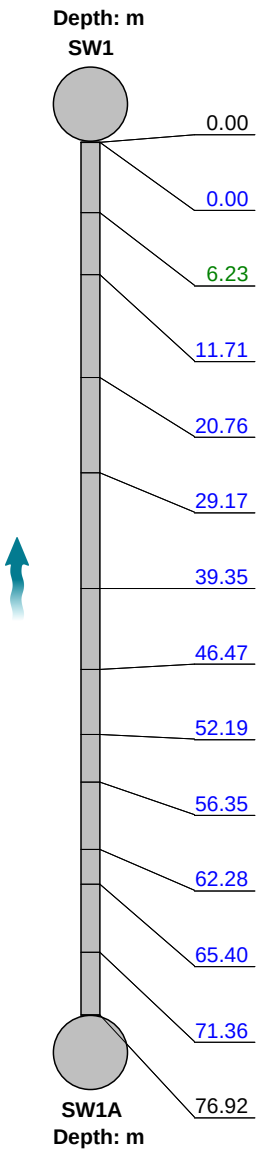
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	SW1A
Road:	Bennett Street	**Inspected Length:**	76.92 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	76.92 m	**Downstream Node:**	SW1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	2,400 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:666



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SW1	00:00:07		
0.00	WL	Water level, 20% of the vertical dimension	00:00:07	SW1AX_155f3a27-8aa1-45a0-	
6.23	DES	Settled deposits, fine, 20% cross-sectional area loss	00:01:45	SW1AX_a6df3ce6-3909-4ee5-	4
11.71	GP	General photograph taken at this point	00:02:22	SW1AX_9e94d0b0-ae5c-4be1-	
20.76	GP	General photograph taken at this point	00:03:54	SW1AX_cdd2f7ca-cae7-4fd5-9	
29.17	GP	General photograph taken at this point	00:05:17	SW1AX_74a04495-4103-4d1c-	
39.35	GP	General photograph taken at this point	00:06:26	SW1AX_a26abe26-c0ce-46fd-9	
46.47	GP	General photograph taken at this point	00:07:05	SW1AX_aea19967-7b06-49a4-	
52.19	GP	General photograph taken at this point	00:08:32	SW1AX_4fad7681-9e2d-4f25-99	
56.35	GP	General photograph taken at this point	00:11:21		
62.28	GP	General photograph taken at this point	00:12:10	SW1AX_5d5f9808-6255-4d0e-	
65.40	GP	General photograph taken at this point	00:13:40	SW1AX_159c681b-d58a-44f0-8	
71.36	GP	General photograph taken at this point	00:14:48		
76.92	MHF	Finish node, manhole, reference: SW1A	00:16:25	SW1AX_9850a96d-4115-417e-	

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	0.1	5.0	4.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW1AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	SW1AX	198401	198401

SW1AX_155f3a27-8aa1-45a0-927f-f0e2eea2c30f_20220715_115227_911.jpg, 00:00:07, 0.00 m
Water level, 20% of the vertical dimension

SW1AX_a6df3ce6-3909-4ee5-a819-268de26b1f8f_20220715_115405_753.jpg, 00:01:45, 6.23 m
Settled deposits, fine, 20% cross-sectional area loss

SW1AX_9e94d0b0-ae5c-4be1-9cb5-7a6e0b762e7f_20220715_115443_829.jpg, 00:02:22, 11.71 m
General photograph taken at this point

SW1AX_cdd2f7ca-cae7-4fd5-9e3d-e8352e386c80_20220715_115619_017.jpg, 00:03:54, 20.76 m
General photograph taken at this point

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW1AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	SW1AX	198401	198401

SW1AX_74a04495-4103-4d1c-ab52-734cdbbd4411_20220715_115745_020.jpg, 00:05:17, 29.17 m
General photograph taken at this point

SW1AX_a26abe26-c0ce-46fd-98eb-8decddb769ee_20220715_115857_518.jpg, 00:06:26, 39.35 m
General photograph taken at this point

SW1AX_aea19967-7b06-49a4-aa6d-ee918ba4c89e_20220715_115939_510.jpg, 00:07:05, 46.47 m
General photograph taken at this point

SW1AX_4fad7681-9e2d-4f25-99cb-29527700c703_20220715_120110_395.jpg, 00:08:32, 52.19 m
General photograph taken at this point

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW1AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	SW1AX	198401	198401

SW1AX_5d5f9808-6255-4d0e-a705-2aded9e0055c_20220715_120455_338.jpg, 00:12:10, 62.28 m
General photograph taken at this point

SW1AX_159c681b-d58a-44f0-80ac-01975f994ab5_20220715_120628_265.jpg, 00:13:40, 65.40 m
General photograph taken at this point

SW1AX_9850a96d-4115-417e-8810-21b0ce4ed79d_20220715_120924_196.jpg, 00:16:25, 76.92 m
Finish node, manhole, reference: SW1A

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - SW3X

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	15/07/22	12:10	198401	No Rain Or Snow	Yes	SW3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

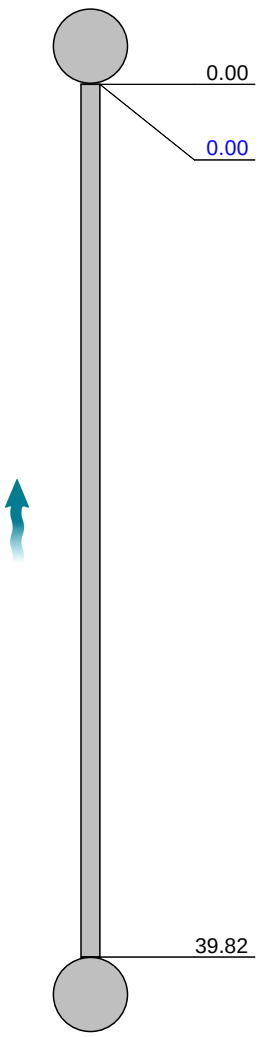
Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	SW3
Road:	Bennett Street	**Inspected Length:**	39.82 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	39.82 m	**Downstream Node:**	SW1A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	2,400 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:345

Depth: m
SW1A



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SW1A	00:00:02		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
39.82	MHF	Finish node, manhole, reference: SW3	00:02:55	SW3X_57952078-1d68-4ba7-b	

SW3
Depth: m

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	0	0.0	0.0	0.0	1.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - SW3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	SW3X	198401	198401

SW3X_57952078-1d68-4ba7-b292-18cdd75c891a_20220715
_121341_818.jpg, 00:02:55, 39.82 m
Finish node, manhole, reference: SW3

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Inspection - 15/07/2022 - UPSTREAMX

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	15/07/22	12:18	198401	No Rain Or Snow	Yes	UPSTREAMX

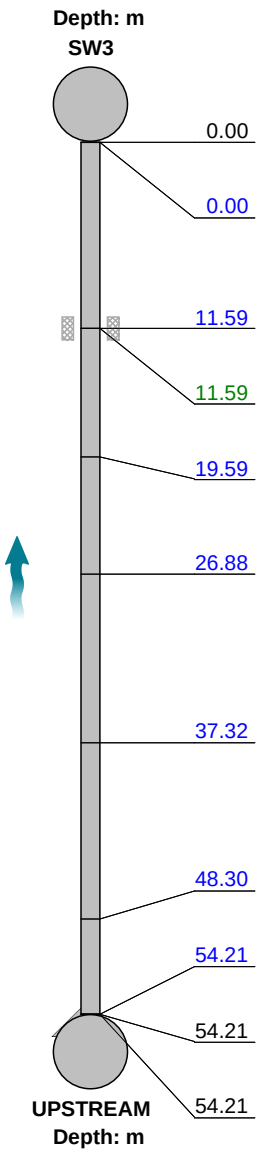
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
A.EAGLESOME	FG64 FLM	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Bennett Street	**Inspected Length:**	54.21 m	**Upstream Pipe Depth:**	
Location:	Other location	**Total Length:**	54.21 m	**Downstream Node:**	SW3
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	2,400 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:470



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: SW3	00:00:04		
0.00		WL	Water level, 20% of the vertical dimension	00:00:05	UPSTREAMX_50a2cfb6-3f6b-4	
11.59		GP	General photograph taken at this point	00:00:34	UPSTREAMX_67eee176-bff3-4f	
11.59	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:36	UPSTREAMX_91c249c5-307e-	3
19.59		GP	General photograph taken at this point	00:01:39	UPSTREAMX_32bf50d0-b516-	
26.88		GP	General photograph taken at this point	00:02:24	UPSTREAMX_cf584fb5-071d-4	
37.32		GP	General photograph taken at this point	00:03:20	UPSTREAMX_c7f00fb7-635e-4	
48.30		GP	General photograph taken at this point	00:04:19	UPSTREAMX_cde35371-6273-	
54.21		GP	General photograph taken at this point	00:05:15	UPSTREAMX_dfbf69c7-bc0a-4	
54.21		CN	Connection other than junction at 2 o'clock, 150mm dia	00:05:16	UPSTREAMX_991564bf-0861-4	
54.21		OCF	Finish node, other special chamber, reference: UPSTREAM: SITE BROUNDRY	00:05:40	UPSTREAMX_0b485ba5-5288-	

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	0.0	0.0	2.0	1.0

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - UPSTREAMX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Upstream	UPSTREAMX	198401	198401

UPSTREAMX_50a2cfb6-3f6b-4ba0-82b9-e550f7aa14be_2022
0715_121842_483.jpg, 00:00:05, 0.00 m
Water level, 20% of the vertical dimension

UPSTREAMX_67eee176-bff3-4f92-9ae6-0b6158698897_202
20715_121910_913.jpg, 00:00:34, 11.59 m
General photograph taken at this point

UPSTREAMX_d8ca8c72-0342-45da-812e-e34441bc84d0_20
220715_121913_157.jpg, 00:00:34, 11.59 m
General photograph taken at this point

UPSTREAMX_91c249c5-307e-4052-b8ed-c9b6c93fcde2_202
20715_121920_482.jpg, 00:00:36, 11.59 m
Settled deposits, fine, 15% cross-sectional area loss, start

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - UPSTREAMX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Upstream	UPSTREAMX	198401	198401

UPSTREAMX_32bf50d0-b516-4fa1-8732-27822a097698_20220715_122024_832.jpg, 00:01:39, 19.59 m
General photograph taken at this point

UPSTREAMX_cf584fb5-071d-4d3b-b908-37a0bdbf0491_20220715_122113_496.jpg, 00:02:24, 26.88 m
General photograph taken at this point

UPSTREAMX_c7f00fb7-635e-4c32-bf34-896a78fbaeab_20220715_122212_114.jpg, 00:03:20, 37.32 m
General photograph taken at this point

UPSTREAMX_cde35371-6273-421e-b332-15f942e4a8cb_20220715_122315_200.jpg, 00:04:19, 48.30 m
General photograph taken at this point

IWJS
Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam
Tel. 0161 776 0499
jake.boydell@iwjs.co.uk

Section Pictures - 15/07/2022 - UPSTREAMX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Upstream	UPSTREAMX	198401	198401

UPSTREAMX_dfbf69c7-bc0a-4c33-b12f-5eabe869bd7c_20220715_122414_593.jpg, 00:05:15, 54.21 m
General photograph taken at this point

UPSTREAMX_991564bf-0861-4d4b-a1df-d86103db70fa_20220715_122425_384.jpg, 00:05:16, 54.21 m
Connection other than junction at 2 o'clock, 150mm dia

UPSTREAMX_0b485ba5-5288-470d-80f6-2e5df68dc5cb_20220715_122500_711.jpg, 00:05:40, 54.21 m
Finish node, other special chamber, reference: UPSTREAM, SITE BROUNDRY

IWJS
A part of MGroupServices

Project No.	198401
Survey Date.	07/07/2022
Surveyor.	A.EAGLESOME / N.MORTON

Asset Survey Card

Asset ID: SW1 eg: MH, CP, GY

Staus : | Asset Type : MH | Function: SW | Cover Level: 44.869

Location: BENNETT STREET

Town: MANCHESTER, M12 5NL

COVER DETAILS

[y] Square [ ] Rectangle [ ] Triangle [ ] Dbl Triangle [ ] Circular [ ] Other [ ] Other

[ ] Hinged [ ] Lockable [ ] Grating [ ] Cover Duty 600 x 600 Size (mm)

PIPE DETAILS

Incoming Pipes

Pipe	Depth from Cover (m)	Upstream / Downstream Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Soffit Level (m)	Invert Level (m)
A	6.56	2400	OVAL		x		BR		38.309	38.309
B					x					
C					x					
D					x					
E					x					
F					x					

Outgoing Pipes

X	6.56	2400	OVAL		x		BR		38.309	38.309
Y					x					

MANHOLE CONSTRUCTION DETAILS

Shaft

0.3 x 0.3 Size (mm) | 2.5 Depth (m) | 16 No. of Reg Courses | Soffit

Chamber

1200 x 1200 Size (mm) | N Side Entry | N OX / H2S / METH Toxic atmosphere | N Evidence of Surcharge

[ ] Pre Cast Concrete [ ] Insitu Concrete [ ] Brick [ ] GRP [ ] Reducing Slab

5 Step Irons | N Ladder | 0 No. of Landings | 10 Depth of Flow (mm) | 20 Depth of Silt (mm)

ADDITIONAL CONSTRUCTION DETAILS

[ ] Flap Valve [ ] Orifice [ ] Sluice Gate [ ] Weir [ ] Screens [ ] Penstock [ ] Flume [ ] H/Wall

CONDITION INFORMATION (Specify in Remark)

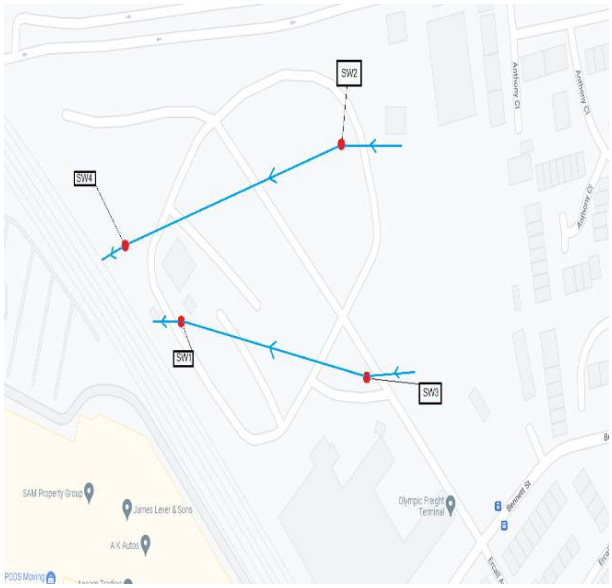
	Cover	Shaft	Irons/Ladder	Chamber	Benching	Channel
OK	Y	Y	Y	Y	Y	Y
Needs Attention						
Urgent Attention						

Remark

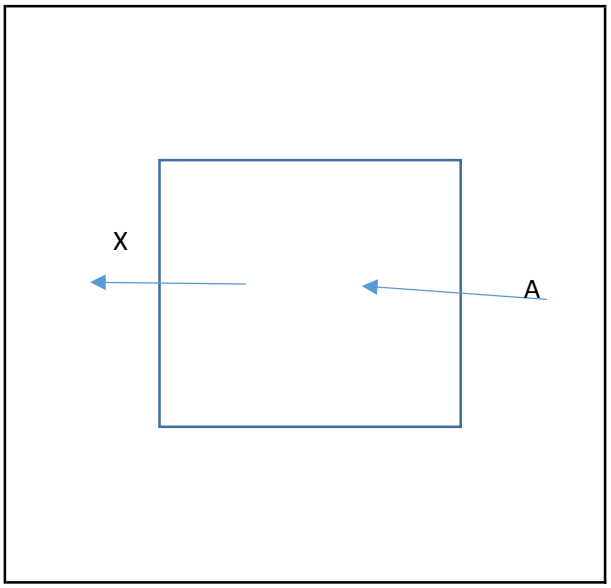
DEPTHS TAKEN ON SECOND VISIT ONCE MH RINGS WHERE IN PLACE

See Overleaf for Key

LOCATION SKETCH



PLAN OF MANHOLE



LOCATION PHOTO

INTERNAL PHOTO

STATUS	PU	: Public	PR	: Private	WC : Culverted Watercourse	} Applies to main outlet
	24	: Section 24	HD	: Highway Drain		
FUNCTION	F	: Foul	C	: Combined	S : Surface Water	} Applies to main outlet
MANHOLE TYPE	IF	: Infall	MH	: Manhole	CP : Catchpit	
	LH	: Lamphole	RE	: Rodding Eye	SO : Storm Overflow	
	GU	: Gully	OF	: Outfall	SA : Soakaway	
COVER DUTY	L	: Light Duty	M	: Medium Duty	H : Heavy Duty	
SHAPE	C	: Circular	E	: Egg	R : Rectangular	
	S	: Square	T	: Trapezoidal	A : Arched	
	B	: Barrel	H	: Horseshoe (Inverted U)	U : U-shaped with flat top	
	X	: Other (state in words)				
PIPE (OR LINING) MATERIAL	AK	: Alkathene	AC	: Asbestos Cement	BR : Brick	
	CI	: Cast Iron	SI	: Spun (Grey) Iron	CO : Concrete	
	CSB	: Concrete Segments (Bolted)	CSU	: Concrete Segments (Unbolted)	CC : Concrete Box Culvert	
	DI	: Ductile Iron	GRC	: Glass Reinforced Concrete	GRP : Glass Reinforced Plastic	
	PSC	: Plastic/Steel Composite	PVC	: Polyvinyl Chloride	PE : Polyethylene	
	RPM	: Reinforced Plastic Matrix	ST	: Steel	VC : Vitrified Clay	
	PP	: Polypropylene	PF	: Pitch Fibre	MAC : Masonry, Coursed	
	MAR	: Masonry, Randon Courses	XXX	: Other (State in remarks)		
LINING	BL	: Bitumen	RL	: Resin	IS : Insituform	
	CL	: Cement	PI	: Plastic		

IWJS
A part of MGroupServices

Project No.	198401
Survey Date.	07/07/2022
Surveyor.	A.EAGLESOME / N.MORTON

Asset Survey Card

Asset ID: SW2 eg: MH, CP, GY

Staus : | Asset Type : MH | Function: SW | Cover Level: 45.383

Location: BENNETT STREET

Town: MANCHESTER, M12 5NL

COVER DETAILS

[Y] Square [ ] Rectangle [ ] Triangle [ ] Dbl Triangle [ ] Circular [ ] Other [ ] Other

[ ] Hinged [ ] Lockable [ ] Grating [ ] Cover Duty 600 x 600 Size (mm)

PIPE DETAILS

Incoming Pipes

Pipe	Depth from Cover (m)	Upstream / Downstream Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Soffit Level (m)	Invert Level (m)
A	5.48		RET	1200	x		CON		41.103	39.903
B					x					
C					x					
D					x					
E					x					
F					x					

Outgoing Pipes

X	5.48		OVAL	1200	x		CON		41.103	39.903
Y					x					

MANHOLE CONSTRUCTION DETAILS

Shaft

600 x 600 Size (mm) | 0.3 Depth (m) | [ ] No. of Reg Courses | [ ] Soffit

Chamber

1200 x 1200 Size (mm) | N Side Entry | N OX / H2S / METH Toxic atmosphere | N Evidence of Surcharge

[ ] Pre Cast Concrete [ ] Insitu Concrete [ ] Brick [ ] GRP [ ] Reducing Slab

[ ] Step Irons [Y] Ladder 0 No. of Landings | 10 Depth of Flow (mm) | 10 Depth of Silt (mm)

ADDITIONAL CONSTRUCTION DETAILS

[ ] Flap Valve [ ] Orifice [ ] Sluice Gate [ ] Weir [ ] Screens [ ] Penstock [ ] Flume [ ] H/Wall

CONDITION INFORMATION (Specify in Remark)

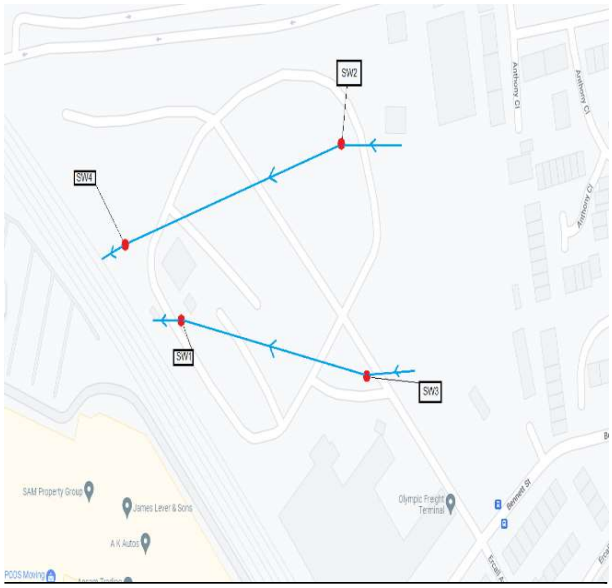
	Cover	Shaft	Irons/Ladder	Chamber	Benching	Channel
OK	Y	Y	Y	Y	Y	Y
Needs Attention						
Urgent Attention						

Remark

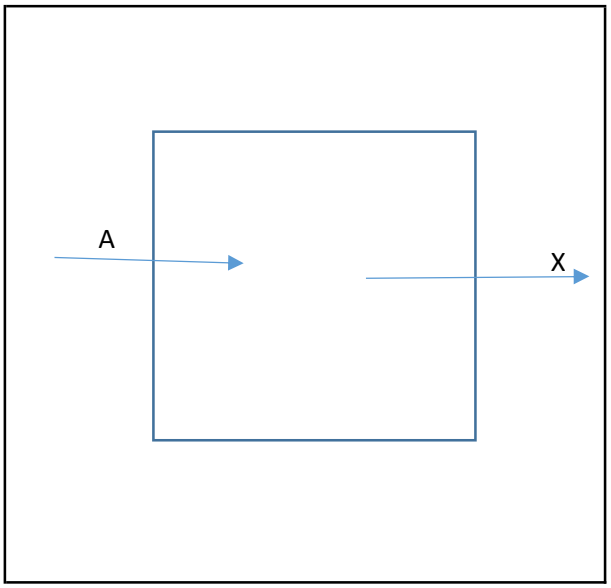
DEPTHS TAKEN ON SECOND VISIT

See Overleaf for Key

LOCATION SKETCH



PLAN OF MANHOLE



LOCATION PHOTO

INTERNAL PHOTO

STATUS	PU	: Public	PR	: Private	WC : Culverted Watercourse	} Applies to main outlet
	24	: Section 24	HD	: Highway Drain		
FUNCTION	F	: Foul	C	: Combined	S : Surface Water	} Applies to main outlet
MANHOLE TYPE	IF	: Infall	MH	: Manhole	CP : Catchpit	
	LH	: Lamphole	RE	: Rodding Eye	SO : Storm Overflow	
	GU	: Gully	OF	: Outfall	SA : Soakaway	
COVER DUTY	L	: Light Duty	M	: Medium Duty	H : Heavy Duty	
SHAPE	C	: Circular	E	: Egg	R : Rectangular	
	S	: Square	T	: Trapezoidal	A : Arched	
	B	: Barrel	H	: Horseshoe (Inverted U)	U : U-shaped with flat top	
	X	: Other (state in words)				
PIPE (OR LINING) MATERIAL	AK	: Alkathene	AC	: Asbestos Cement	BR : Brick	
	CI	: Cast Iron	SI	: Spun (Grey) Iron	CO : Concrete	
	CSB	: Concrete Segments (Bolted)	CSU	: Concrete Segments (Unbolted)	CC : Concrete Box Culvert	
	DI	: Ductile Iron	GRC	: Glass Reinforced Concrete	GRP : Glass Reinforced Plastic	
	PSC	: Plastic/Steel Composite	PVC	: Polyvinyl Chloride	PE : Polyethylene	
	RPM	: Reinforced Plastic Matrix	ST	: Steel	VC : Vitrified Clay	
	PP	: Polypropylene	PF	: Pitch Fibre	MAC : Masonry, Coursed	
	MAR	: Masonry, Randon Courses	XXX	: Other (State in remarks)		
LINING	BL	: Bitumen	RL	: Resin	IS : Insituform	
	CL	: Cement	PI	: Plastic		

IWJS
A part of MGroupServices

Project No.	198401
Survey Date.	07/07/2022
Surveyor.	A.EAGLESOME / N.MORTON

Asset Survey Card

Asset ID: SW3 eg: MH, CP, GY

Staus : | Asset Type : MH | Function: SW | Cover Level: 44.789

Location: BENNETT STREET

Town: MANCHESTER, M12 5NL

COVER DETAILS

[Y] Square [ ] Rectangle [ ] Triangle [ ] Dbl Triangle [ ] Circular [ ] Other [ ] Other

[ ] Hinged [ ] Lockable [ ] Grating [ ] Cover Duty 600 x 600 Size (mm)

PIPE DETAILS

Incoming Pipes

Pipe	Depth from Cover (m)	Upstream / Downstream Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Soffit Level (m)	Invert Level (m)
A	5.78		OVAL	2400	x		BR		41.409	39.009
B					x					
C					x					
D					x					
E					x					
F					x					

Outgoing Pipes

X	5.78		OVAL	2400	x		BR		41.409	39.009
Y					x					

MANHOLE CONSTRUCTION DETAILS

Shaft

600 x 600 Size (mm) | 0.3 Depth (m) | No. of Reg Courses | Soffit

Chamber

1200 x 1200 Size (mm) | N Side Entry | N OX / H2S / METH Toxic atmosphere | N Evidence of Surcharge

[ ] Pre Cast Concrete [ ] Insitu Concrete [ ] Brick [ ] GRP [ ] Reducing Slab

[ ] Step Irons [Y] Ladder 0 No. of Landings 10 Depth of Flow (mm) 10 Depth of Silt (mm)

ADDITIONAL CONSTRUCTION DETAILS

[ ] Flap Valve [ ] Orifice [ ] Sluice Gate [ ] Weir [ ] Screens [ ] Penstock [ ] Flume [ ] H/Wall

CONDITION INFORMATION (Specify in Remark)

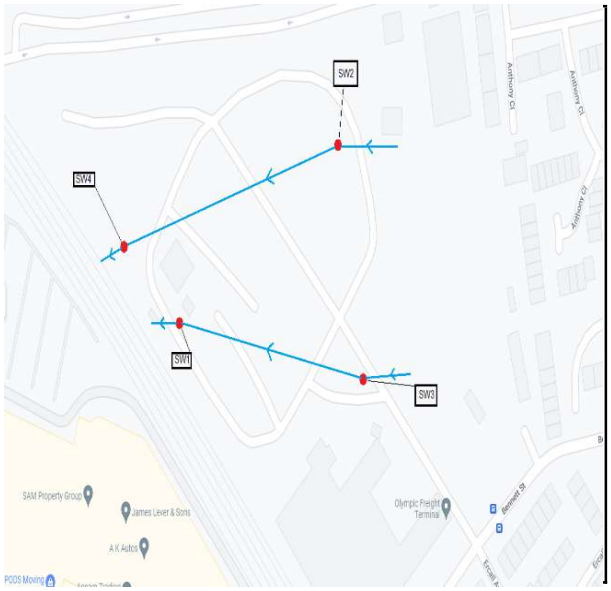
	Cover	Shaft	Irons/Ladder	Chamber	Benching	Channel
OK	Y	Y	Y	Y	Y	Y
Needs Attention						
Urgent Attention						

Remark

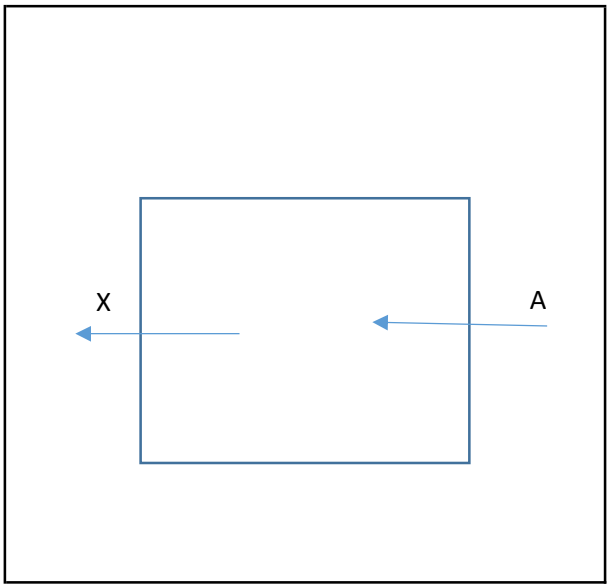
DEPTHS TAKEN ON SECOND VISIT ONCE MH RINGS WHERE IN PLACE

See Overleaf for Key

LOCATION SKETCH



PLAN OF MANHOLE



LOCATION PHOTO

INTERNAL PHOTO

STATUS	PU	: Public	PR	: Private	WC : Culverted Watercourse	} Applies to main outlet
	24	: Section 24	HD	: Highway Drain		
FUNCTION	F	: Foul	C	: Combined	S : Surface Water	} Applies to main outlet
MANHOLE TYPE	IF	: Infall	MH	: Manhole	CP : Catchpit	
	LH	: Lamphole	RE	: Rodding Eye	SO : Storm Overflow	
	GU	: Gully	OF	: Outfall	SA : Soakaway	
COVER DUTY	L	: Light Duty	M	: Medium Duty	H : Heavy Duty	
SHAPE	C	: Circular	E	: Egg	R : Rectangular	
	S	: Square	T	: Trapezoidal	A : Arched	
	B	: Barrel	H	: Horseshoe (Inverted U)	U : U-shaped with flat top	
	X	: Other (state in words)				
PIPE (OR LINING) MATERIAL	AK	: Alkathene	AC	: Asbestos Cement	BR : Brick	
	CI	: Cast Iron	SI	: Spun (Grey) Iron	CO : Concrete	
	CSB	: Concrete Segments (Bolted)	CSU	: Concrete Segments (Unbolted)	CC : Concrete Box Culvert	
	DI	: Ductile Iron	GRC	: Glass Reinforced Concrete	GRP : Glass Reinforced Plastic	
	PSC	: Plastic/Steel Composite	PVC	: Polyvinyl Chloride	PE : Polyethylene	
	RPM	: Reinforced Plastic Matrix	ST	: Steel	VC : Vitrified Clay	
	PP	: Polypropylene	PF	: Pitch Fibre	MAC : Masonry, Coursed	
	MAR	: Masonry, Randon Courses	XXX	: Other (State in remarks)		
LINING	BL	: Bitumen	RL	: Resin	IS : Insituform	
	CL	: Cement	PI	: Plastic		

IWJS
A part of MGroupServices

Project No.	198401
Survey Date.	07/07/2022
Surveyor.	A.EAGLESOME / N.MORTON

Asset Survey Card

Asset ID: SW4 eg: MH, CP, GY

Staus : | Asset Type : MH | Function: SW | Cover Level: 44.234

Location: BENNETT STREET

Town: MANCHESTER, M12 5NL

COVER DETAILS

Y Square | Rectangle | Triangle | Dbl Triangle | Circular | Other | Other

Hinged | Lockable | Grating | Cover Duty | 600 x 600 Size (mm)

PIPE DETAILS

Incoming Pipes

Pipe	Depth from Cover (m)	Upstream / Downstream Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Soffit Level (m)	Invert Level (m)
A	6.44		OVAL	1200	x		BR		38.994	37.794
B					x					
C					x					
D					x					
E					x					
F					x					

Outgoing Pipes

X	6.44		OVAL	1200	x		BR		38.994	37.794
Y					x					

MANHOLE CONSTRUCTION DETAILS

Shaft

600 x 600 Size (mm) | 0.3 Depth (m) | N No. of Reg Courses | Soffit

Chamber

1200 x 1200 Size (mm) | N Side Entry | N OX / H2S / METH Toxic atmosphere | N Evidence of Surcharge

Pre Cast Concrete | Insitu Concrete | Brick | GRP | Reducing Slab

0 Step Irons | Y Ladder | 0 No. of Landings | 10 Depth of Flow (mm) | 10 Depth of Silt (mm)

ADDITIONAL CONSTRUCTION DETAILS

Flap Valve | Orifice | Sluice Gate | Weir | Screens | Penstock | Flume | H/Wall

CONDITION INFORMATION (Specify in Remark)

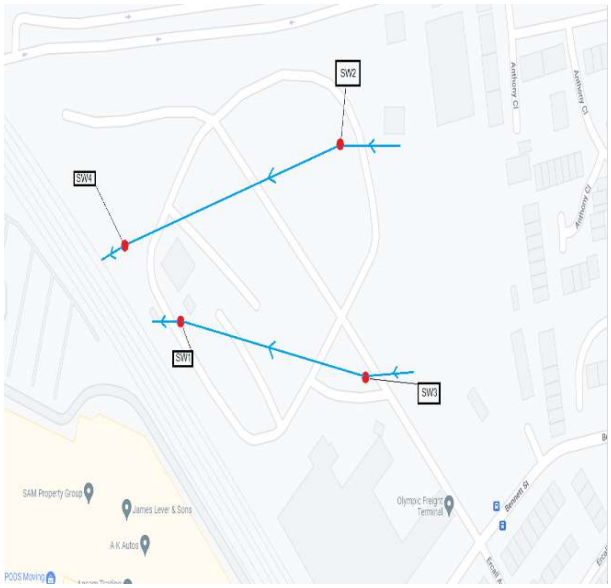
	Cover	Shaft	Irons/Ladder	Chamber	Benching	Channel
OK	Y	Y	Y	Y	Y	
Needs Attention						
Urgent Attention						

Remark

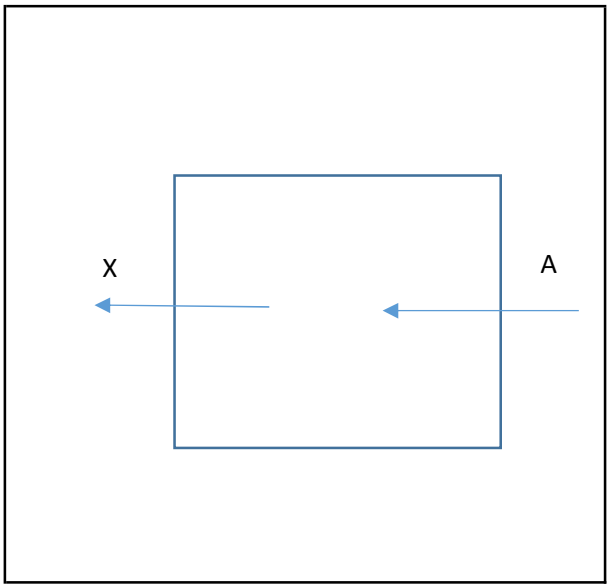
DEPTH TAKEN ON SECOND VISIT ONCE MH RINGS WHERE DOWN

See Overleaf for Key

LOCATION SKETCH



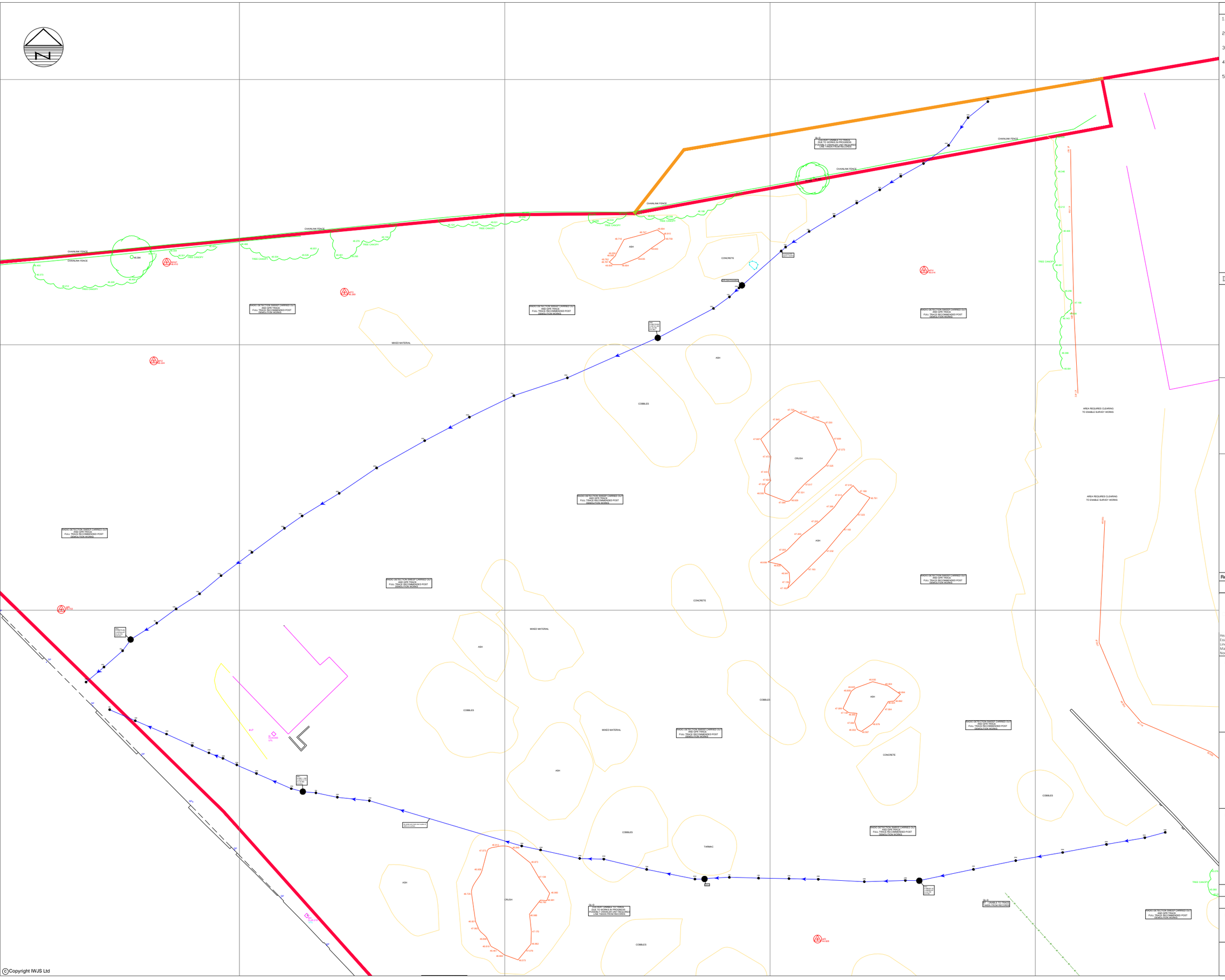
PLAN OF MANHOLE



LOCATION PHOTO

INTERNAL PHOTO

STATUS	PU	: Public	PR	: Private	WC : Culverted Watercourse	} Applies to main outlet
	24	: Section 24	HD	: Highway Drain		
FUNCTION	F	: Foul	C	: Combined	S : Surface Water	} Applies to main outlet
MANHOLE TYPE	IF	: Infall	MH	: Manhole	CP : Catchpit	
	LH	: Lamphole	RE	: Rodding Eye	SO : Storm Overflow	
	GU	: Gully	OF	: Outfall	SA : Soakaway	
COVER DUTY	L	: Light Duty	M	: Medium Duty	H : Heavy Duty	
SHAPE	C	: Circular	E	: Egg	R : Rectangular	
	S	: Square	T	: Trapezoidal	A : Arched	
	B	: Barrel	H	: Horseshoe (Inverted U)	U : U-shaped with flat top	
	X	: Other (state in words)				
PIPE (OR LINING) MATERIAL	AK	: Alkathene	AC	: Asbestos Cement	BR : Brick	
	CI	: Cast Iron	SI	: Spun (Grey) Iron	CO : Concrete	
	CSB	: Concrete Segments (Bolted)	CSU	: Concrete Segments (Unbolted)	CC : Concrete Box Culvert	
	DI	: Ductile Iron	GRC	: Glass Reinforced Concrete	GRP : Glass Reinforced Plastic	
	PSC	: Plastic/Steel Composite	PVC	: Polyvinyl Chloride	PE : Polyethylene	
	RPM	: Reinforced Plastic Matrix	ST	: Steel	VC : Vitrified Clay	
	PP	: Polypropylene	PF	: Pitch Fibre	MAC : Masonry, Coursed	
	MAR	: Masonry, Randon Courses	XXX	: Other (State in remarks)		
LINING	BL	: Bitumen	RL	: Resin	IS : Insituform	
	CL	: Cement	PI	: Plastic		



NOTES

1. DO NOT SCALE FROM THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/VERIFIED ON SITE. IF IN DOUBT, ASK.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CCTV DOCUMENTATION.
3. ALL DIMENSIONS AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
4. PIPE RUNS ARE ASSUMED STRAIGHT BETWEEN CHAMBERS UNLESS OTHERWISE INDICATED.
5. ALL UTILITIES ARE UNDERGROUND EXCEPT WHERE INDICATED.

DRAINAGE/CCTV SURVEY LEGEND

- MANHOLE / PROBE & MARK LOCATION
- SURFACE WATER

Rev	Date	Details of issue / revision	Drw	Rev

ISSUES & REVISIONS

IWJS
Head Office: Dickens House, Old Stowmarket Road, Woolpit, Bury St Edmunds, Suffolk IP30 9QS
Essex Office: 230 Old London Road, Marks Tey, Colchester, Essex CO6 1EN
Lincoln Office: Unit 4, Boundary Lane Enterprise Park, South Hykeham, Lincoln LN6 9NQ
Manchester Office: Unit 10 Huntsman Drive, North Bank Industrial Estate, Irlam, Manchester M44 5EG
Norfolk Office: Green Road, Yaxham Road Industrial Estate, Dereham, Norfolk NR20 3TG

Client
Kellen Homes Limited

Project Title
Bennett St Manchester M12 5NL

Drawing Title
Drainage system investigation.

Scale	NTS	Drawn	JS
Size	A1	Reviewed	BN

Drawing Status
EXISTING

Drawing No.
IWJS - 198401

Revision
1

©Copyright IWJS Ltd