



Project

Project Name: Caddick Construction Limited - Openshaw Campus - PJ372741
Project Number: PJ372741
Project Date: 11/06/2020
Inspection Standard: MSCC4 Sewers & Drainage GB (SRM4 Scoring)

A large, stylized pink circular graphic that frames the text 'Lanes Group Plc'. The text is in a pink, sans-serif font, with 'Lanes' on the top line and 'Group Plc' on the bottom line.

Lanes
Group Plc



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Project Information

Project Name	Project Number	Project Date
Caddick Construction Limited - Openshaw Campus - PJ372741	PJ372741	11/06/2020

Client

Company: Caddick Construction Limited
Department: Calder Grange
Street: Weeland Road
Town or City: West Yorkshire
Post Code: WF11 8DA

Site

Company: Caddick Construction Limited
Department: Openshaw Campus
Street: Ashton Old Road
Town or City: Openshaw
Post Code: M11 2WH

Contractor

Company: Lanes Group Plc
Description: Regional Manager
Contact: Paul Lynch
Department: Manchester Operations
Street: 300 Lansdowne Road
Town or City: Manchester
Post Code: M30 9PJ
Phone: 0161 788 2222
Email: manchesterops@lanesgroup.co.uk



Project Information

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Project Notes

Dear Customer,

As requested, we have recently carried out a drainage CCTV survey at the site location and our full and detailed findings are contained in the attached CCTV report which you can review at your leisure.

We have identified the need for further works and will provide a quotation which will highlight the areas of concern, the most appropriate remedial technique and all associated costings.

We would like to take this opportunity to thank you for using Lanes Group plc and I hope we can be of service to you again soon. Please visit our website for full details of all services we can provide, follow us on social media or even share details of your customer experience with us:

www.lanesgroup.co.uk

If you require any technical assistance understanding the findings of the CCTV report then please contact us at:

cctv.reports@lanesfordrains.co.uk

Kind regards,
Lanes Group plc



Project Information

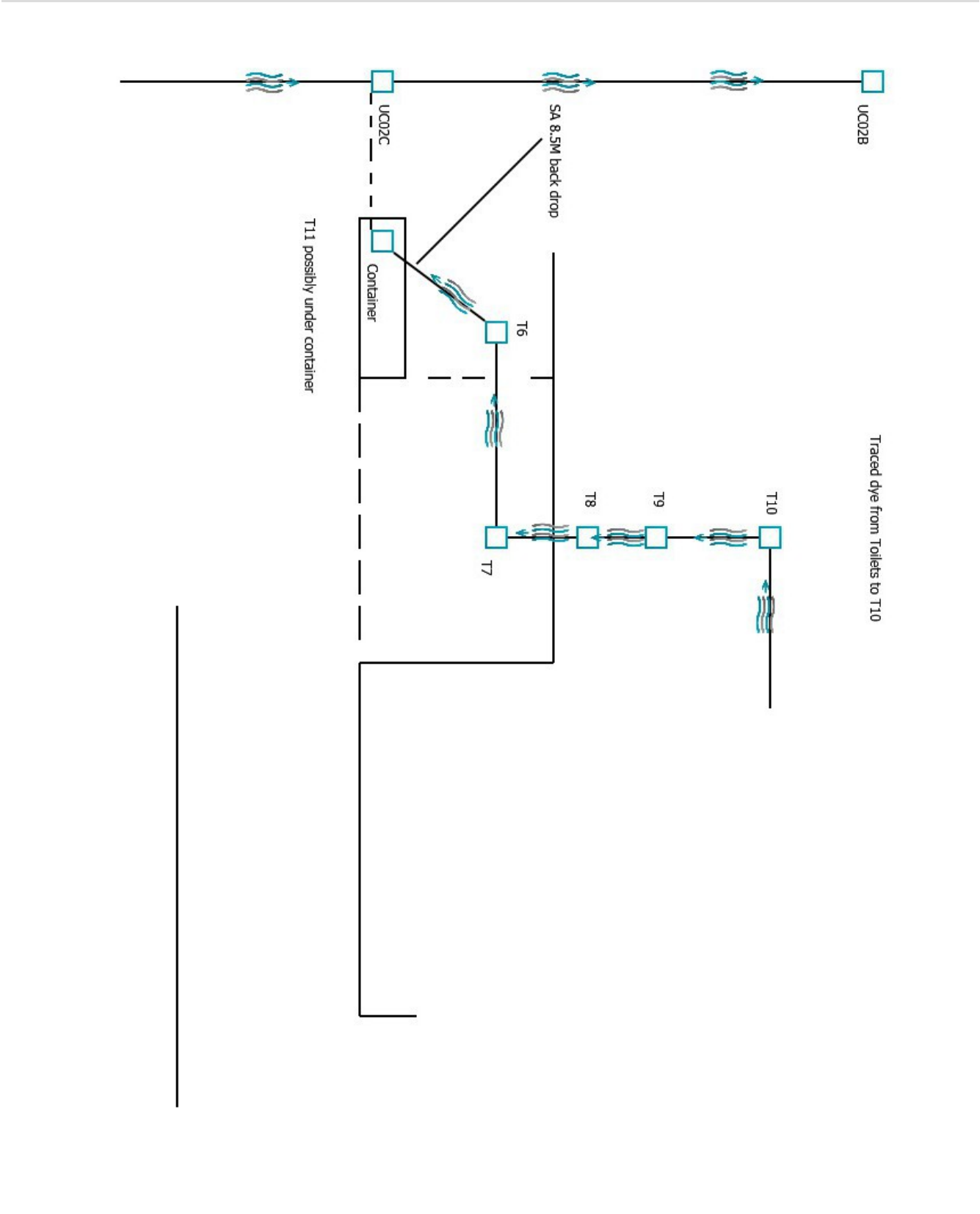
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Drawing Legend

	Buchan Trap		Oil Separator		Soakaway Surface Water
	Catchpit		Petrol Interceptor		Soil & Vent Pipe
	Cesspit		Pipe Run		Survey Abandoned
	Combined SVP & RWP		Pump Chamber		Toilet Manhole
	Connection Point		Rainwater Pipe		Toilet
	Grease Trap		River		Tree Summer
	Gully		Road Gully		Tree Winter
	Inspection Chamber		Rodding Eye		Urinal
	Linear Drain Outlet		Sea		Water Flow
	Main Sewer		Septic Tank		Winser Trap
	Manhole		Soakaway Foul Water		

Project Name	Project Number	Project Date
Caddick Construction Limited - Openshaw Campus - PJ372741	PJ372741	11/06/2020

Project Drawing





Section Profile

Project Name Caddick Construction Limited - Openshaw Campus - PJ372741	Project Number PJ372741	Project Date 11/06/2020
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Circular, 100 mm

Section	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
2	MH01	MH33	11/06/2020	Openshaw Campus	Vitrified clay pipe (i.e. all clayware)	2.68 m	2.68 m
5	MH02	MH01	11/06/2020	Openshaw Campus	Vitrified clay pipe (i.e. all clayware)	0.86 m	0.86 m
11	T1	T2	11/06/2020	Openshaw Campus	Polyvinyl chloride	6.43 m	6.43 m

Total: 3 Inspections x Circular 100 mm = 9.97 m Total Length and 9.97 m Inspected Length

Circular, 150 mm

Section	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
1	MH33	MH32	11/06/2020	Openshaw Campus	Vitrified clay pipe (i.e. all clayware)	26.36 m	26.36 m
12	T2	T3	11/06/2020	Openshaw Campus	Polyvinyl chloride	6.17 m	6.17 m
13	T3	T4	11/06/2020	Openshaw Campus	Polyvinyl chloride	9.00 m	9.00 m

Total: 3 Inspections x Circular 150 mm = 41.53 m Total Length and 41.53 m Inspected Length

Circular, 225 mm

Section	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
14	T5	T4	11/06/2020	Openshaw Campus	Polyvinyl chloride	2.11 m	2.11 m
20	MH11	MH12	12/06/2020	Openshaw Campus	Polyvinyl chloride	5.63 m	5.63 m
21	MH12	J/SEW	12/06/2020	Openshaw Campus	Vitrified clay pipe (i.e. all clayware)	4.21 m	4.21 m
29	MH13	J/SEW	12/06/2020	Openshaw Campus	Polyvinyl chloride	7.01 m	7.01 m

Total: 4 Inspections x Circular 225 mm = 18.96 m Total Length and 18.96 m Inspected Length

Circular, 300 mm

Section	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
15	T7	T6	12/06/2020	Openshaw Campus	Polyvinyl chloride	13.40 m	13.40 m
16	T8	T7	12/06/2020	Openshaw Campus	Polyvinyl chloride	7.68 m	7.68 m
17	T9	T8	12/06/2020	Openshaw Campus	Polyvinyl chloride	3.91 m	3.91 m
18	T10	T9	12/06/2020	Openshaw Campus	Polyvinyl chloride	6.69 m	6.69 m

Total: 4 Inspections x Circular 300 mm = 31.68 m Total Length and 31.68 m Inspected Length

Circular, 900 mm

Section	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
22	UC02	UC03	12/06/2020	Openshaw Campus	Brick	42.72 m	42.72 m
23	UC02A	UC02	12/06/2020	Openshaw Campus	Brick	19.09 m	19.09 m
24	UC02B	UC02A	12/06/2020	Openshaw Campus	Brick	14.59 m	14.59 m
25	UC02C	UC02B	12/06/2020	Openshaw Campus	Brick	36.85 m	36.85 m
26	UC03	UC05	12/06/2020	Openshaw Campus	Brick	13.69 m	13.69 m
27	UC05	UC06	12/06/2020	Openshaw Campus	Brick	104.95 m	106.96 m

Total: 6 Inspections x Circular 900 mm = 231.89 m Total Length and 233.90 m Inspected Length

Total: 20 Inspections = 334.03 m Total Length and 336.03 m Inspected Length



Section Inspection - 11/06/2020 - MH33X

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	11/06/20	8:50	Not Specified	Rain	Yes	MH33X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
K.HAMPSON		PF68 CZH		Small Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	MH33
Road:	Openshaw Campus	Inspected Length:	26.36 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	26.36 m	Downstream Node:	MH32
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:
Recommendations:

Scale:	1:230	Position [m]	Code	Observation	Grade																																				
Depth: m MH33 0.00 0.00 0.60 0.89 5.16 5.57 8.07 8.87 11.13 18.41 25.65 26.36 MH32 Depth: m <table><tr><td>MH</td><td>Start node type, manhole, reference number: MH33</td><td></td></tr><tr><td>WL</td><td>Water level, 5% of the vertical dimension</td><td></td></tr><tr><td>RFJ</td><td>Roots, fine at joint</td><td>2</td></tr><tr><td>JN</td><td>Junction at 2 o'clock, diameter: 150mm</td><td></td></tr><tr><td>FC</td><td>Fracture, circumferential from 11 o'clock to 6 o'clock</td><td>3</td></tr><tr><td>BJ</td><td>Broken pipe at joint from 10 o'clock to 2 o'clock ,</td><td>4</td></tr><tr><td>FC</td><td>Fracture, circumferential from 12 o'clock to 12 o'clock</td><td>3</td></tr><tr><td>JN</td><td>Junction at 2 o'clock, diameter: 100mm: From gully</td><td></td></tr><tr><td>FC</td><td>Fracture, circumferential from 12 o'clock to 12 o'clock</td><td>3</td></tr><tr><td>JN</td><td>Junction at 2 o'clock, diameter: 100mm: From gully</td><td></td></tr><tr><td>FC</td><td>Fracture, circumferential from 12 o'clock to 12 o'clock</td><td>3</td></tr><tr><td>MHF</td><td>Finish node type, manhole, reference number: MH32</td><td></td></tr></table>						MH	Start node type, manhole, reference number: MH33		WL	Water level, 5% of the vertical dimension		RFJ	Roots, fine at joint	2	JN	Junction at 2 o'clock, diameter: 150mm		FC	Fracture, circumferential from 11 o'clock to 6 o'clock	3	BJ	Broken pipe at joint from 10 o'clock to 2 o'clock ,	4	FC	Fracture, circumferential from 12 o'clock to 12 o'clock	3	JN	Junction at 2 o'clock, diameter: 100mm: From gully		FC	Fracture, circumferential from 12 o'clock to 12 o'clock	3	JN	Junction at 2 o'clock, diameter: 100mm: From gully		FC	Fracture, circumferential from 12 o'clock to 12 o'clock	3	MHF	Finish node type, manhole, reference number: MH32	
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MHF	Finish node type, manhole, reference number: MH32																																								

BJ @ 5.57 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
5	80.0	9.1	240.0	4.0	1	1.0	0.0	1.0	2.0



Section Pictures - 11/06/2020 - MH33X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH33X		PJ00372741



MH33X_569ac2a5-a267-488a-b279-9629dcb790c9_2020061
1_125731_866.jpg, 00:00:53, 5.57 m
Broken pipe at joint from 10 o'clock to 2 o'clock ,



Section Inspection - 11/06/2020 - MH01X

Section 2	Inspection 2	Date 11/06/20	Time 11:44	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR MH01X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	MH01
Road:	Openshaw Campus	Inspected Length:	2.68 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	2.68 m	Downstream Node:	MH33
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
Depth: m					
MH33					
0.00		MH	Start node type, manhole, reference number: MH33		
0.01		WL	Water level, 5% of the vertical dimension		
0.57		LR	Line deviates right: Slight		
2.37		CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	2	
2.68		REM	General remark: FH UNKOWN AT ST OF CCTV		
2.68		MHF	Finish node type, manhole, reference number: MH01		
MH01					
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
1	10.0	3.7	10.0	2.0	0	0.0	0.0	0.0	1.0



Section Inspection - 11/06/2020 - U/STR BX

Section 3	Inspection 3	Date 11/06/20	Time 11:46	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR U/STR BX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	U/STR B
Road:	Openshaw Campus	Inspected Length:	20.83 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	20.83 m	Downstream Node:	MH33
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:182	Position [m]	Code	Observation	Grade
Depth: m MH33				
	0.00	WL	Water level, 5% of the vertical dimension	
	0.00	MH	Start node type, manhole, reference number: MH33	
	0.27	JDM	Joint displaced, medium	1
	3.55	JN	Junction at 9 o'clock, diameter: 100mm	
	3.93	LL	Line deviates left: Slight	
	11.36	JN	Junction at 9 o'clock, diameter: 100mm	
	18.92	FC	Fracture, circumferential from 12 o'clock to 12 o'clock	3
	18.92	RF	Roots, fine: FROM FC	2
	20.02	FC	Fracture, circumferential from 12 o'clock to 12 o'clock	3
	20.31	LR	Line deviates right: Slight	
	20.31	RFJ	Roots, fine at joint	2
	20.31	OJM	Open joint, medium	1
	20.83	SA	Survey abandoned: Unable to rod further	

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
4	40.0	3.3	82.0	3.0	2	1.0	0.1	2.0	2.0



Section Inspection - 11/06/2020 - GULLY 1X

Section 4	Inspection 4	Date 11/06/20	Time 11:47	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR GULLY 1X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	GULLY 1
Road:	Openshaw Campus	Inspected Length:	0.28 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	0.28 m	Downstream Node:	MH33
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
		0.00	WL	Water level, 5% of the vertical dimension	
		0.00	MH	Start node type, manhole, reference number: MH33	
		0.28	DEZ	Attached deposits, other from 2 o'clock to 10 o'clock, 75% cross-sectional area loss: Possible concrete	4
		0.28	SA	Survey abandoned: Due to possible concrete	

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	8.0	1.1	8.0	4.0

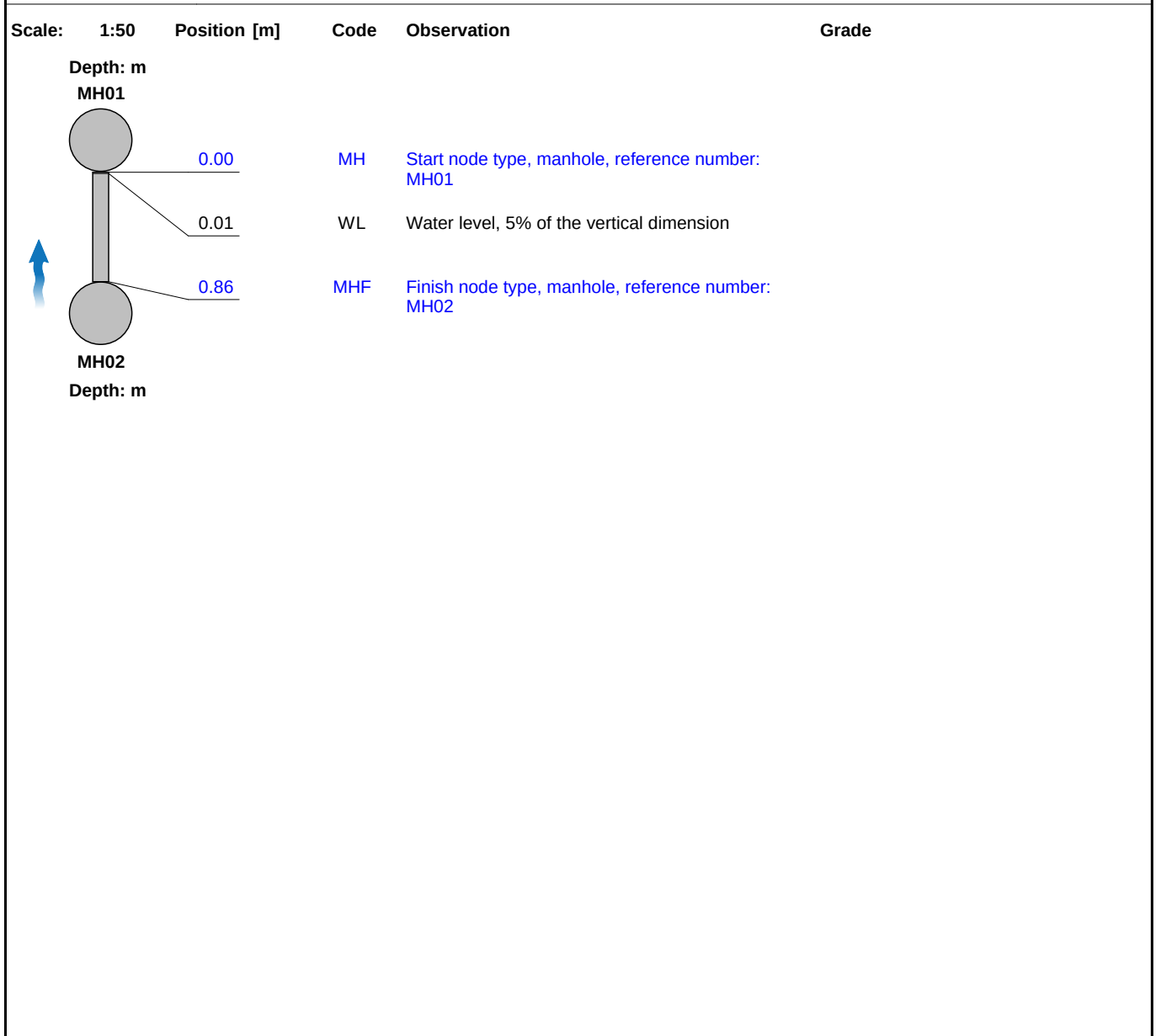


Section Inspection - 11/06/2020 - MH02X

Section 5	Inspection 5	Date 11/06/20	Time 11:48	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR MH02X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	MH02
Road:	Openshaw Campus	Inspected Length:	0.86 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	0.86 m	Downstream Node:	MH01
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:
Recommendations:



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



Section Inspection - 11/06/2020 - STACKX

Section 6	Inspection 6	Date 11/06/20	Time 11:50	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR STACKX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	STACK
Road:	Openshaw Campus	Inspected Length:	1.44 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	1.44 m	Downstream Node:	MH02
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
		0.00	MH	Start node type, manhole, reference number: MH02	
		0.01	JN	Junction at 6 o'clock, diameter: 100mm: Back drop	
		0.01	WL	Water level, 5% of the vertical dimension	
		1.44	REM	General remark: Bottom of stack	
		1.44	LU	Line deviates up	
		1.44	SA	Survey abandoned: Due to stack	

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



Section Inspection - 11/06/2020 - U/STR AX

Section 7	Inspection 7	Date 11/06/20	Time 11:50	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR U/STR AX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	U/STR A
Road:	Openshaw Campus	Inspected Length:	1.92 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	1.92 m	Downstream Node:	MH02
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
Depth: m					
MH02		0.00	MH	Start node type, manhole, reference number: MH02	
		0.01	WL	Water level, 5% of the vertical dimension	
		0.19	JN	Junction at 6 o'clock, diameter: 100mm: Back drop	
		1.92	REM	General remark: Bottom of stack	
		1.92	C	Remark: ***** Combined *****	
		1.92	C	Remark: Inspection from the other side	
		1.92	C	Remark: Uninspected Length: 0.0	
		1.92	C	Remark: Inspection from the other side	
		1.92	C	Remark: ***** Combined *****	
		1.92	SA	Survey abandoned: Due to line up	
		1.92	LU	Line deviates up	
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



Section Inspection - 11/06/2020 - U/STR BX

Section 8	Inspection 8	Date 11/06/20	Time 11:52	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR U/STR BX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	U/STR B
Road:	Openshaw Campus	Inspected Length:	1.92 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	1.92 m	Downstream Node:	MH02
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
		0.00	MH	Start node type, manhole, reference number: MH02	
		0.00	JN	Junction at 6 o'clock, diameter: 100mm: Back drop	
		0.01	WL	Water level, 5% of the vertical dimension	
		1.92	REM	General remark: Bottom of stack	
		1.92	LU	Line deviates up	
		1.92	SA	Survey abandoned: Due to line up	

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



Section Inspection - 11/06/2020 - U/STAIR WCX

Section 9	Inspection 9	Date 11/06/20	Time 11:53	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR U/STAIR WCX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	U/STAIR WC
Road:	Openshaw Campus	Inspected Length:	7.39 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	7.39 m	Downstream Node:	MH01
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:65	Position [m]	Code	Observation	Grade
Depth: m MH01					
		0.00	MH	Start node type, manhole, reference number: MH01	
		0.00	JN	Junction at 6 o'clock, diameter: 100mm: Back drop	
		0.01	WL	Water level, 5% of the vertical dimension	
		0.28	DEZJ	Attached deposits, other at joint from 8 o'clock to 11 o'clock, 5% cross-sectional area loss: PIECE OF LINE/RUBBER STUCK IN JOINT	2
		1.34	DEZJ	Attached deposits, other at joint from 7 o'clock to 11 o'clock, 5% cross-sectional area loss: PIECE OF LINE/RUBBER STUCK IN JOINT	2
		1.53	LU	Line deviates up	
		1.53	REM	General remark: Pushed up stack	
		7.39	SA	Survey abandoned: Unable to rod further	



DEZJ @ 0.28 m

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	2	1.0	0.2	2.0	2.0



Section Pictures - 11/06/2020 - U/STAIR WCX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	U/STAIR WCX		PJ00372741



U_STAIR
WCX_c975292b-a33a-4537-ad00-ec4c8870aa13_20200611_
152938_605.jpg, 00:00:16, 0.28 m



Section Inspection - 11/06/2020 - MH32X

Section 10	Inspection 10	Date 11/06/20	Time 13:10	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR MH32X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	MH32
Road:	Openshaw Campus	Inspected Length:	16.04 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	16.04 m	Downstream Node:	MH6403
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:140	Position [m]	Code	Observation	Grade
Depth: m MH32					
	0.00	MH		Start node type, manhole, reference number: MH32	
	0.00	WL		Water level, 5% of the vertical dimension	
	7.21	CN		Connection other than junction at 12 o'clock, diameter: 100mm	
	12.38	S01	DEC	Settled deposits, hard or compacted, 5% cross-sectional area loss, start: Silt etc	
	14.66	F01	DEC	Settled deposits, hard or compacted, 5% cross-sectional area loss, finish: Silt etc	2
	15.85	LD		Line deviates down	
	16.04	SA		Survey abandoned: Due to line down	

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	1.0	0.2	3.0	2.0



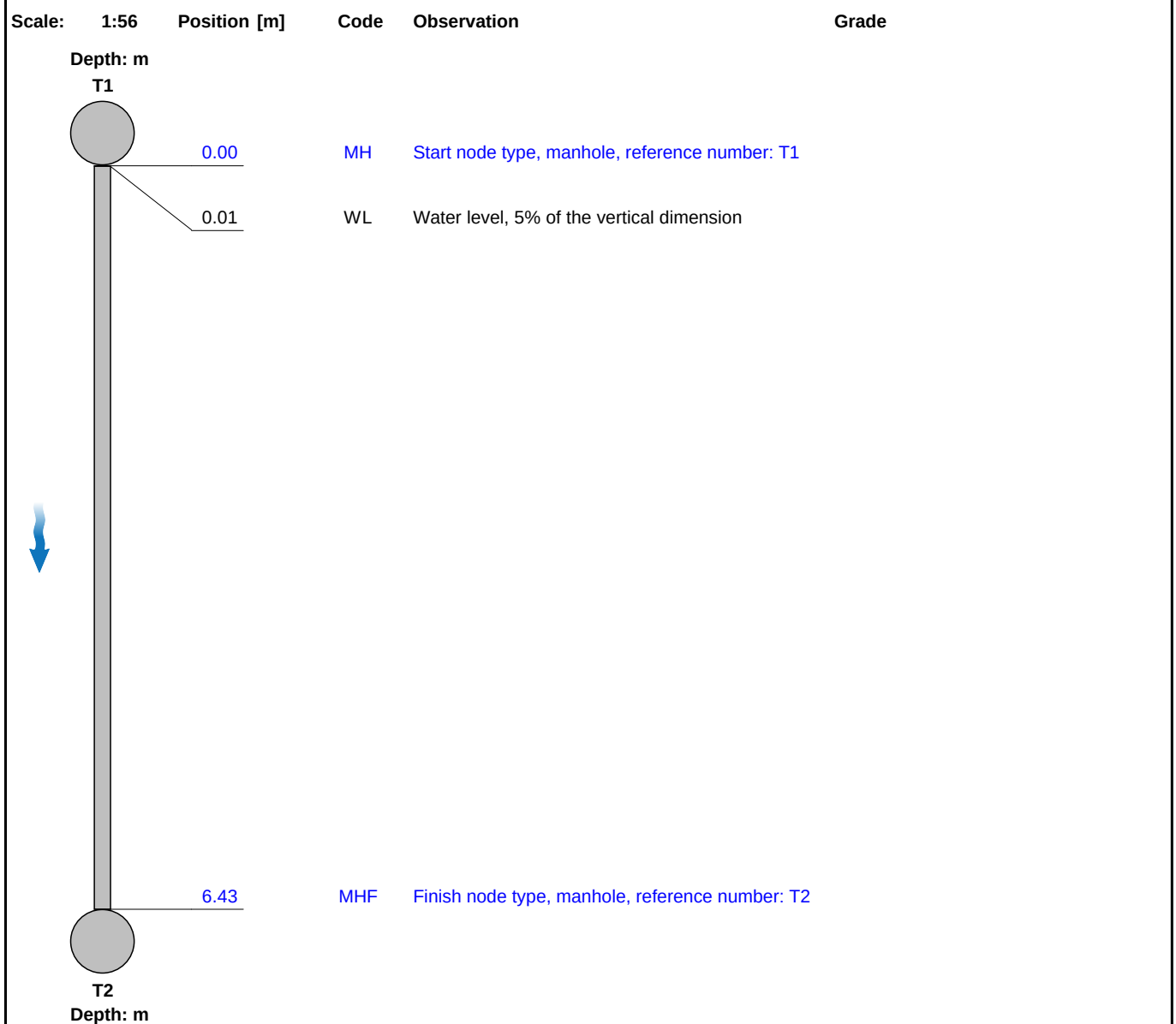
Section Inspection - 11/06/2020 - T1X

Section 11	Inspection 11	Date 11/06/20	Time 15:06	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T1X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	T1
Road:	Openshaw Campus	Inspected Length:	6.43 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	6.43 m	Downstream Node:	T2
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:



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



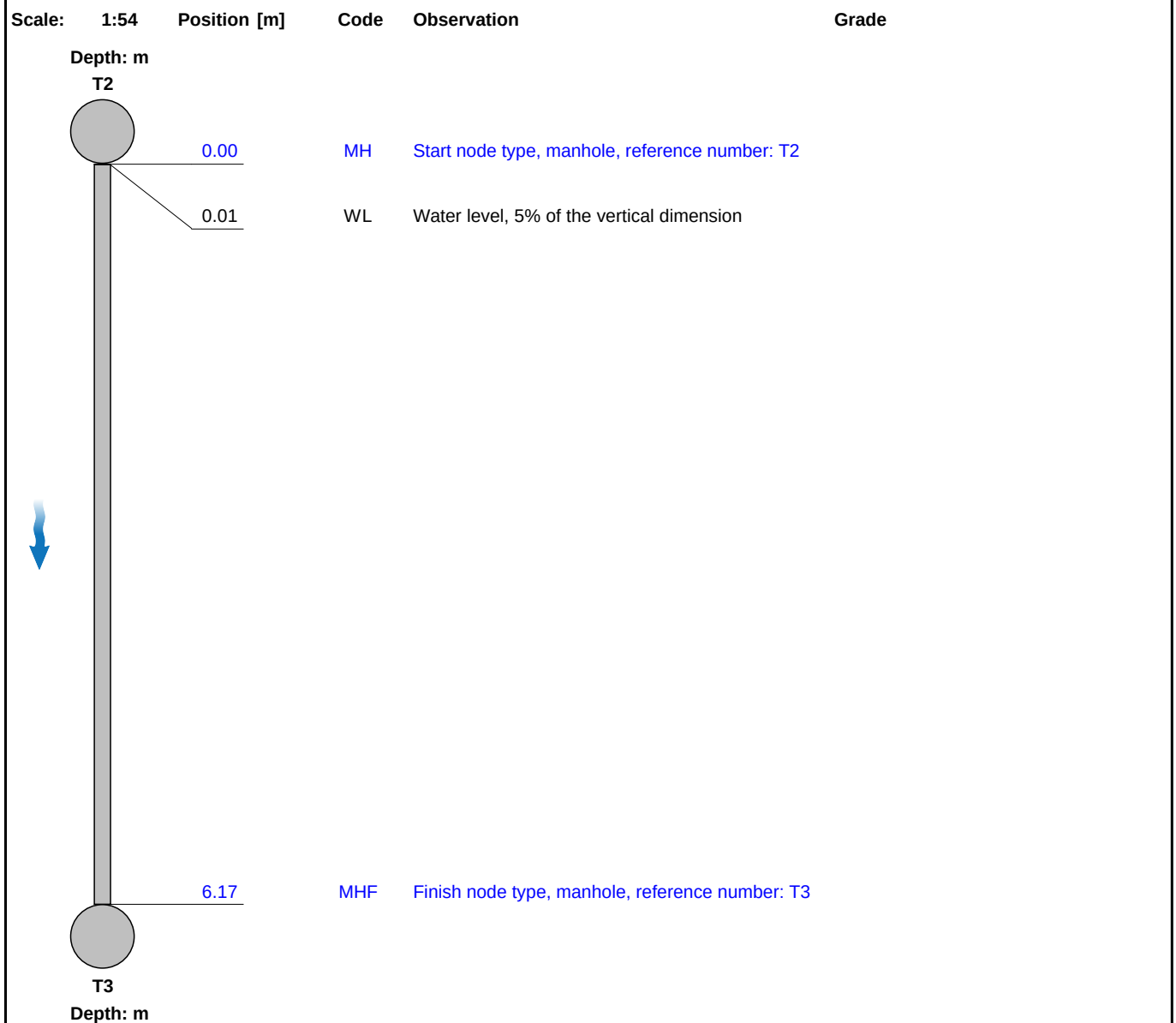
Section Inspection - 11/06/2020 - T2X

Section 12	Inspection 12	Date 11/06/20	Time 15:09	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T2X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	T2
Road:	Openshaw Campus	Inspected Length:	6.17 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	6.17 m	Downstream Node:	T3
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:



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



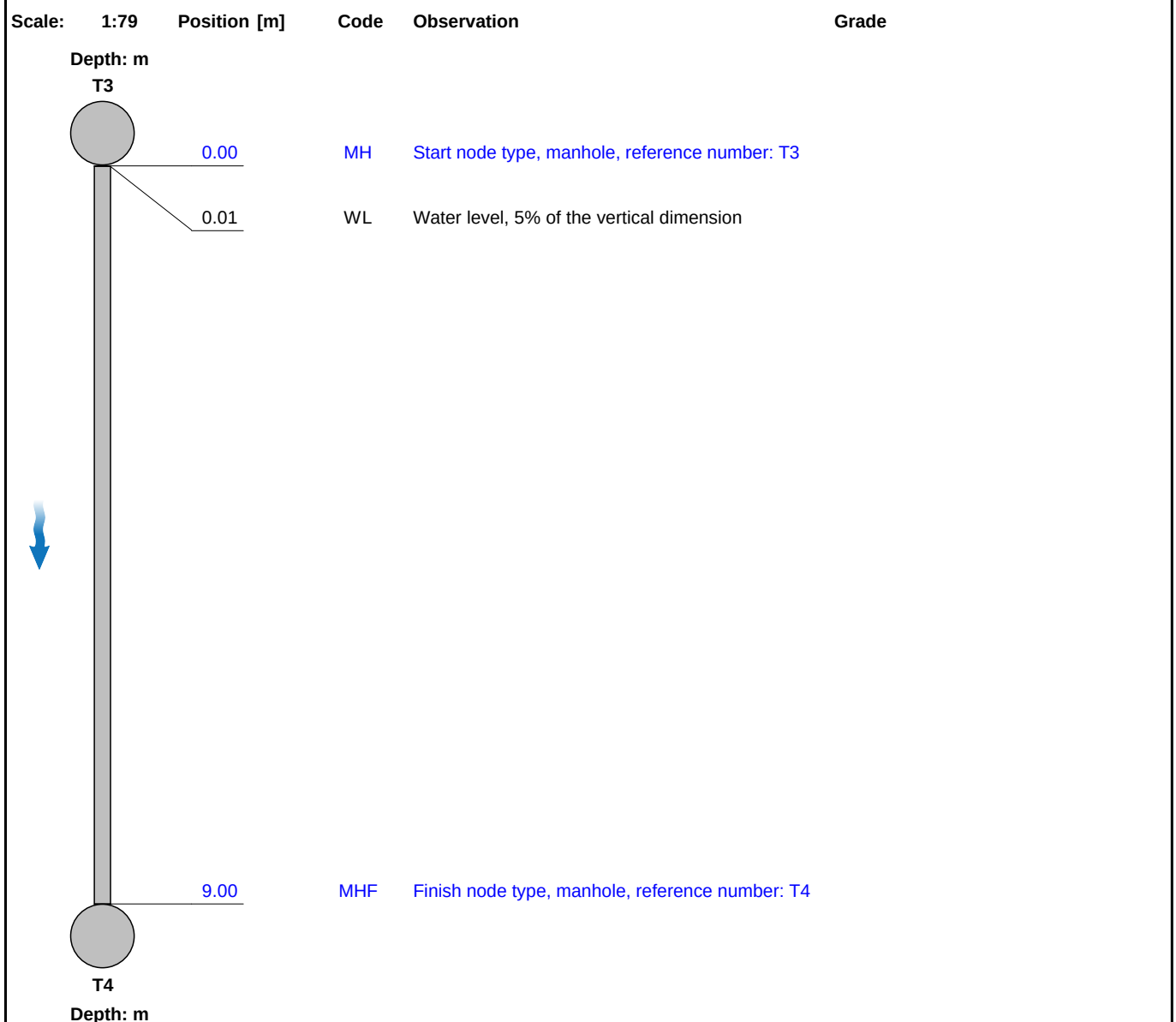
Section Inspection - 11/06/2020 - T3X

Section 13	Inspection 13	Date 11/06/20	Time 15:10	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T3X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	T3
Road:	Openshaw Campus	Inspected Length:	9.00 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	9.00 m	Downstream Node:	T4
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:



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



Section Inspection - 11/06/2020 - T5X

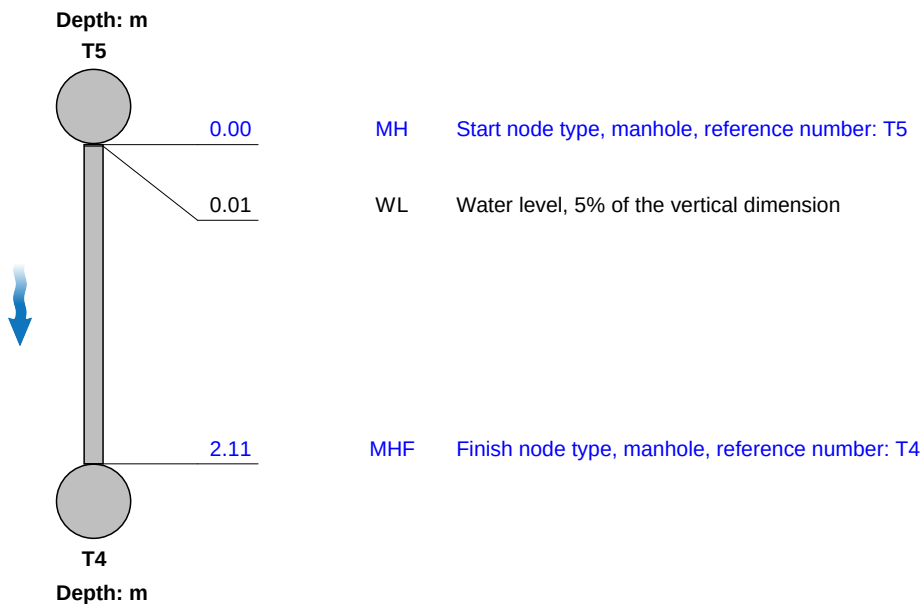
Section 14	Inspection 14	Date 11/06/20	Time 15:11	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T5X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	T5
Road:	Openshaw Campus	Inspected Length:	2.11 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	2.11 m	Downstream Node:	T4
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation Grade



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	0	0.0	0.0	0.0	1.0



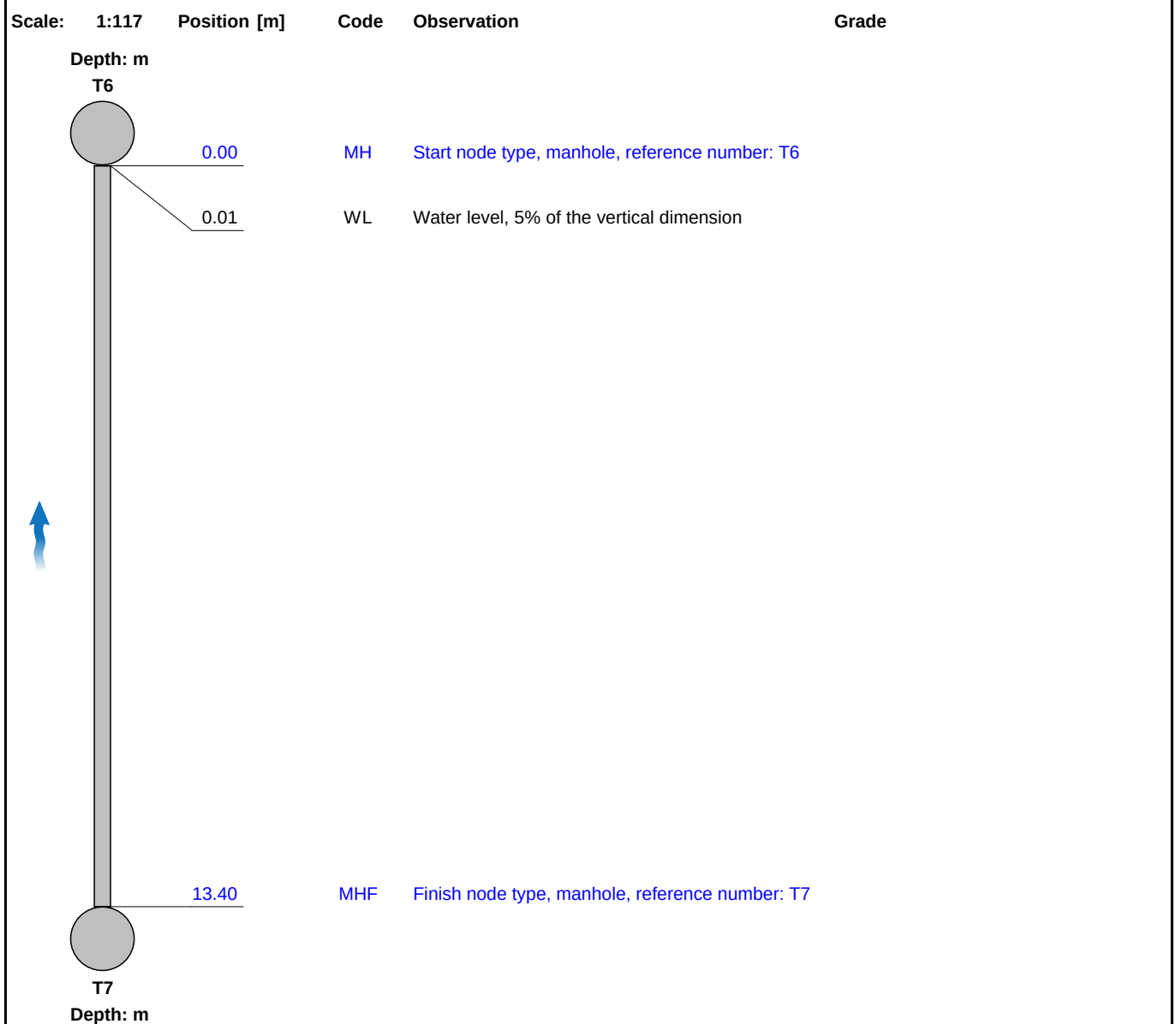
Section Inspection - 12/06/2020 - T7X

Section 15	Inspection 15	Date 12/06/20	Time 7:36	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T7X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	T7
Road:	Openshaw Campus	Inspected Length:	13.40 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	13.40 m	Downstream Node:	T6
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:



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



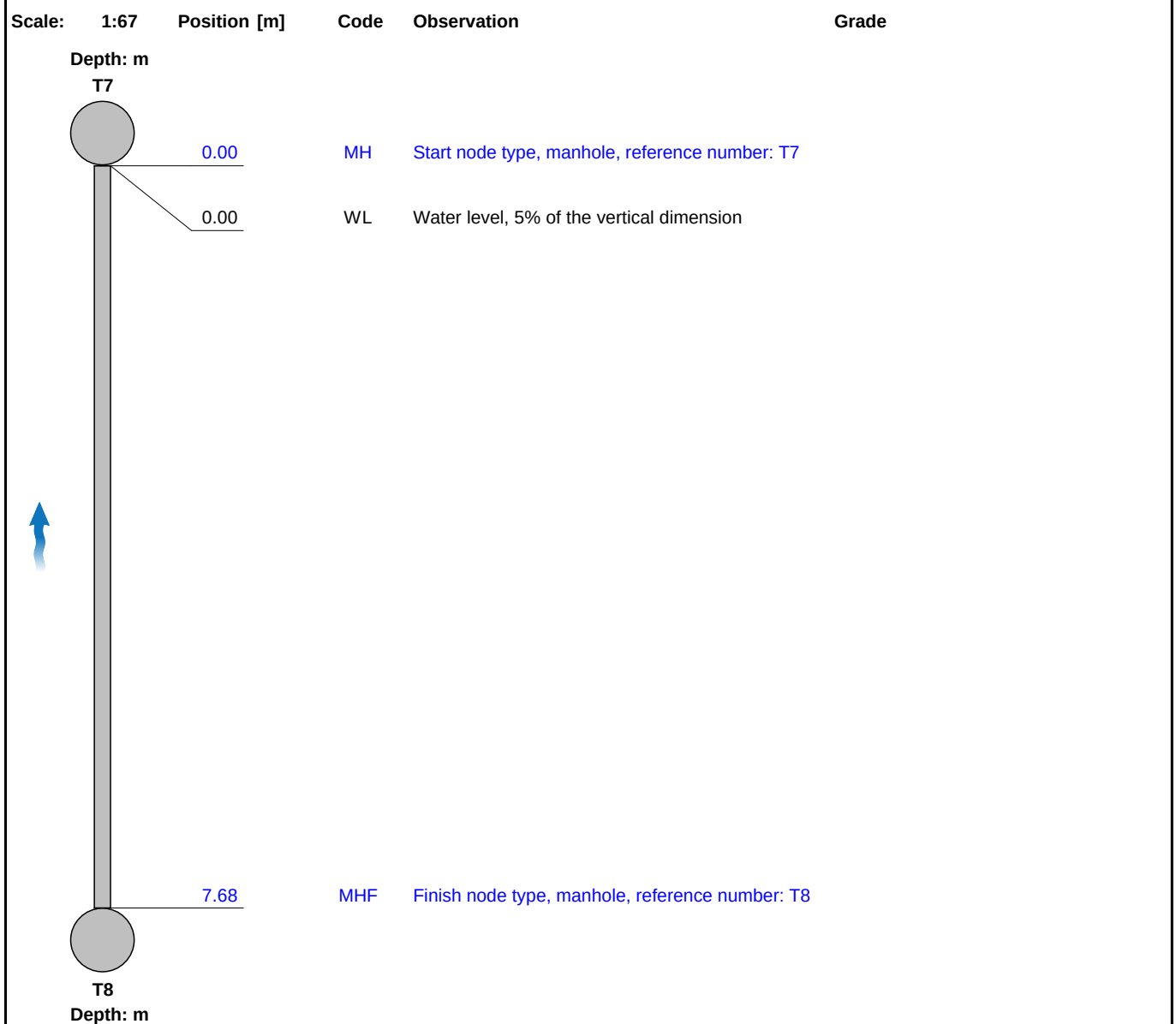
Section Inspection - 12/06/2020 - T8X

Section 16	Inspection 16	Date 12/06/20	Time 7:57	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T8X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	T8
Road:	Openshaw Campus	Inspected Length:	7.68 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	7.68 m	Downstream Node:	T7
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:



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	0	0.0	0.0	0.0	1.0



Section Inspection - 12/06/2020 - T9X

Section 17	Inspection 17	Date 12/06/20	Time 7:59	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T9X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	T9
Road:	Openshaw Campus	Inspected Length:	3.91 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	3.91 m	Downstream Node:	T8
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation Grade

Depth: m

T8



0.00

MH

Start node type, manhole, reference number: T8

0.00

WL

Water level, 5% of the vertical dimension

3.91

MHF

Finish node type, manhole, reference number: T9

T9

Depth: m

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	0	0.0	0.0	0.0	1.0



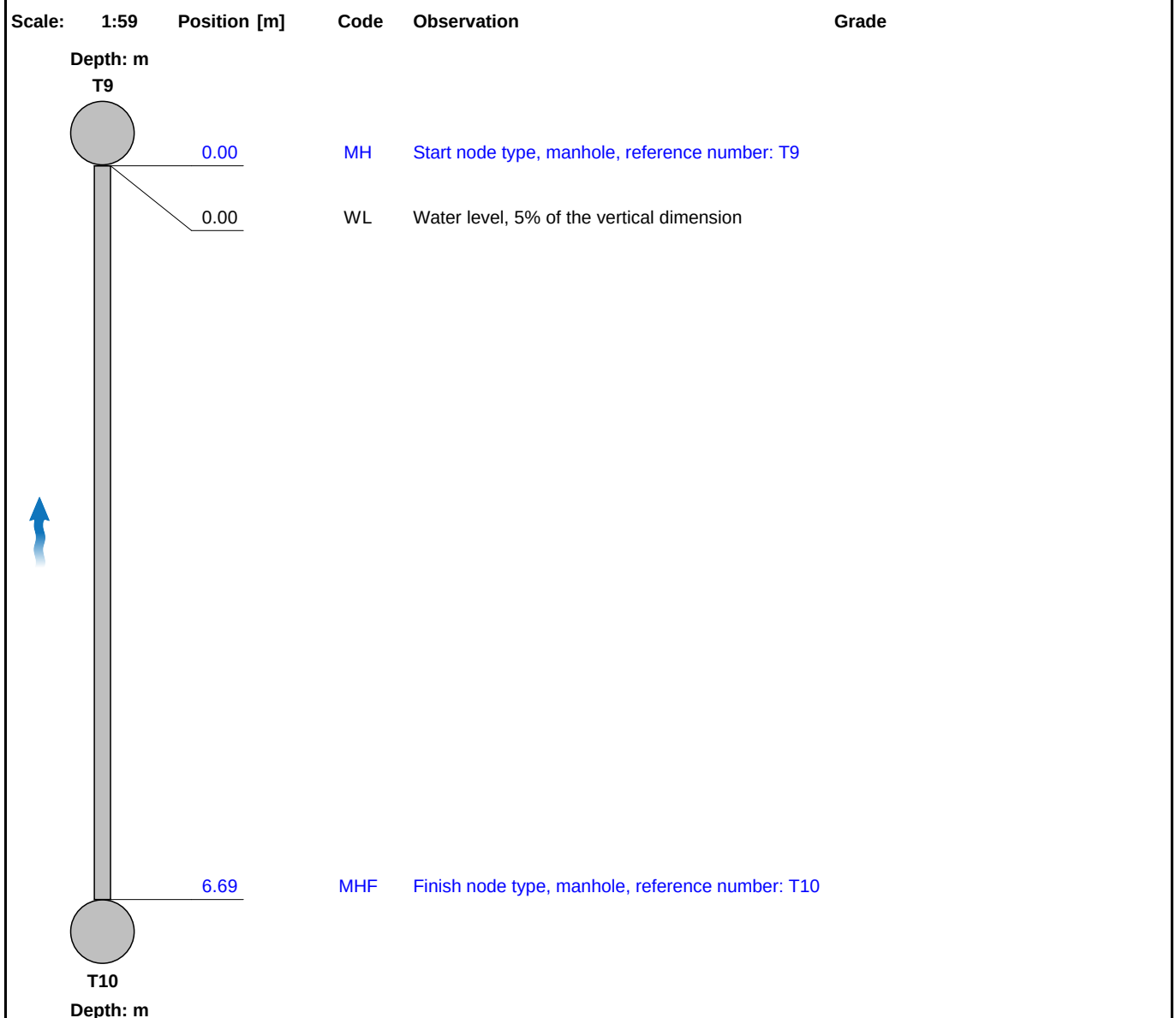
Section Inspection - 12/06/2020 - T10X

Section 18	Inspection 18	Date 12/06/20	Time 8:04	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T10X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	T10
Road:	Openshaw Campus	Inspected Length:	6.69 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	6.69 m	Downstream Node:	T9
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:



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



Section Inspection - 12/06/2020 - T6X

Section 19	Inspection 19	Date 12/06/20	Time 8:08	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR T6X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	T6
Road:	Openshaw Campus	Inspected Length:	7.54 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	7.54 m	Downstream Node:	T11
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	
Comments:	T11 POSS UNDER CONTAINER				
Recommendations:					

Scale:	1:66	Position [m]	Code	Observation	Grade
Depth: m T6					
	0.00	MH	Start node type, manhole, reference number: T6		
	0.00	WL	Water level, 5% of the vertical dimension		
	7.54	JN	Junction at 6 o'clock, diameter: 300mm: back drop		
	7.54	SA	Survey abandoned: due to back drop		

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



Section Inspection - 12/06/2020 - MH11X

Section 20	Inspection 20	Date 12/06/20	Time 8:50	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR MH11X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	MH11
Road:	Openshaw Campus	Inspected Length:	5.63 m	Upstream Pipe Depth:	
Location:		Total Length:	5.63 m	Downstream Node:	MH12
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
		0.00	MH	Start node type, manhole, reference number: MH12	
		0.00	WL	Water level, 5% of the vertical dimension	
		0.00	S01	DEG Attached deposits, grease from 4 o'clock to 5 o'clock, 5% cross-sectional area loss, start	
		0.00	S02	DEG Attached deposits, grease from 7 o'clock to 8 o'clock, 5% cross-sectional area loss, start	
		5.63	F01	DEG Attached deposits, grease from 4 o'clock to 5 o'clock, 5% cross-sectional area loss, finish	2
		5.63	F02	DEG Attached deposits, grease from 7 o'clock to 8 o'clock, 5% cross-sectional area loss, finish	2
		5.63	MH11	MHF Finish node type, manhole, reference number: MH11	

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	2.0	2.1	12.0	2.0



Section Inspection - 12/06/2020 - MH12X

Section 21	Inspection 21	Date 12/06/20	Time 8:52	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR MH12X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	MH12
Road:	Openshaw Campus	Inspected Length:	4.21 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	4.21 m	Downstream Node:	J/SEW
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
		0.00	MH	Start node type, manhole, reference number: MH12	
		0.00	WL	Water level, 5% of the vertical dimension	
		0.00	S01	DEG Attached deposits, grease from 4 o'clock to 5 o'clock, 5% cross-sectional area loss, start	
		0.00	S02	DEG Attached deposits, grease from 7 o'clock to 8 o'clock, 5% cross-sectional area loss, start	
		1.46	WL	Water level, 10% of the vertical dimension	
		3.30	DEZ	Attached deposits, other from 5 o'clock to 7 o'clock, 10% cross-sectional area loss: Possible scale	3
		3.96	LD	Line deviates down: Slight	
		3.96	REM	General remark: RH REF WRONG ON DVD, PLANS WRONG	
		3.96	REM	General remark: FH REF SHOULD READ MH13	
		4.20	LHF	Finish node type, lamphole, reference number: MH13	
		4.21	F01	DEG Attached deposits, grease from 4 o'clock to 5 o'clock, 5% cross-sectional area loss, finish	2
		4.21	F02	DEG Attached deposits, grease from 7 o'clock to 8 o'clock, 5% cross-sectional area loss, finish	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	3	4.0	2.9	12.0	3.0

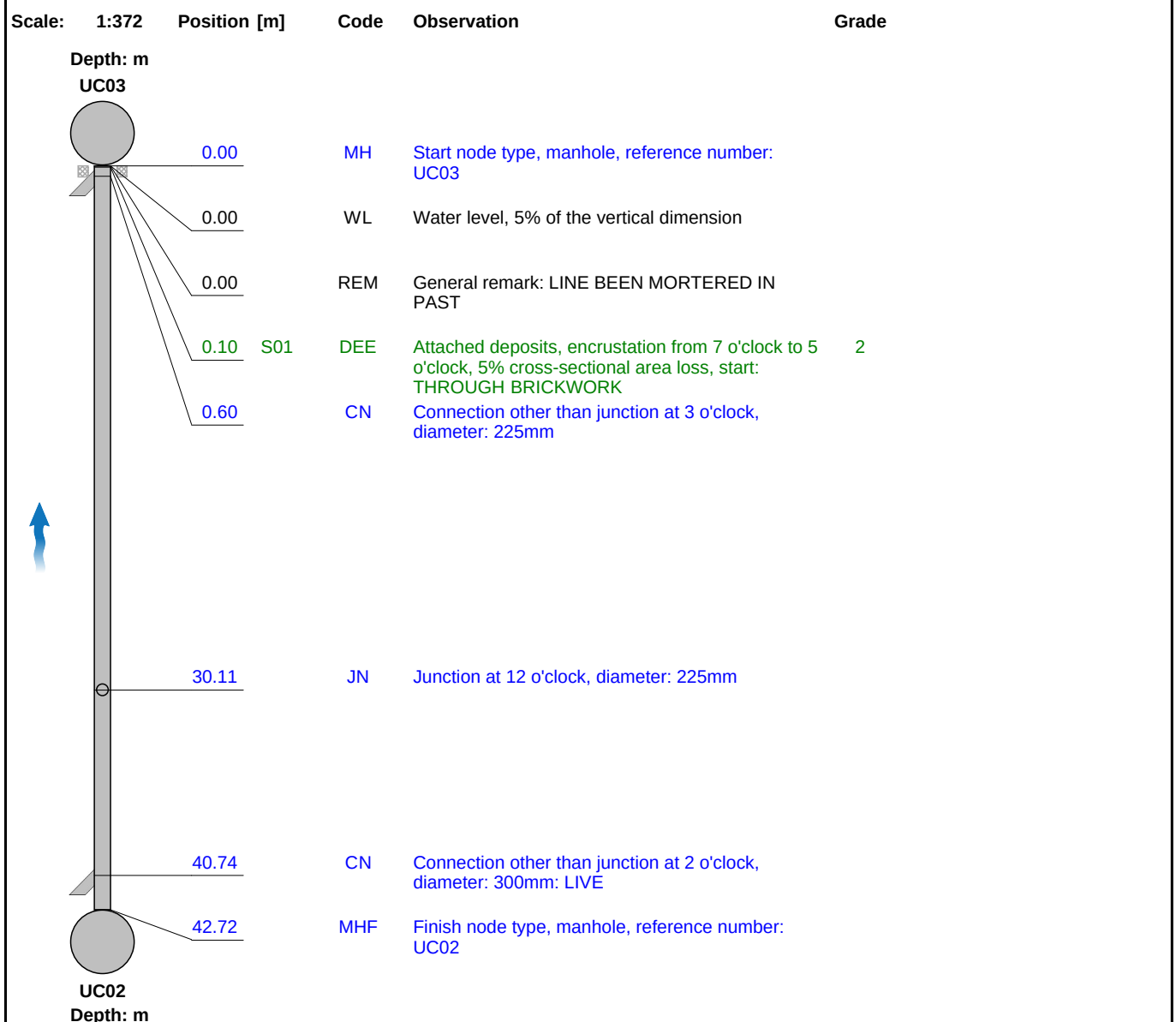


Section Inspection - 12/06/2020 - UC02X

Section 22	Inspection 22	Date 12/06/20	Time 10:22	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR UC02X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	UC02
Road:	Openshaw Campus	Inspected Length:	42.72 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	42.72 m	Downstream Node:	UC03
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	900 mm		
Year Constructed:		Pipe Material:	Brick		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:
Recommendations:



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	1.0	2.0



Section Inspection - 12/06/2020 - UC02AX

Section 23	Inspection 23	Date 12/06/20	Time 10:41	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR UC02AX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	UC02A
Road:	Openshaw Campus	Inspected Length:	19.09 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	19.09 m	Downstream Node:	UC02
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	900 mm		
Year Constructed:		Pipe Material:	Brick		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:

Scale: 1:167	Position [m]	Code	Observation	Grade
Depth: m UC02				
0.00	MH		Start node type, manhole, reference number: UC02	
0.00	WL		Water level, 5% of the vertical dimension	
0.00	S01	DEE	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY, POSISTION VARIES	
11.86	JN		Junction at 12 o'clock, diameter: 225mm: LIVE	
19.09	F01	DEE	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY, POSISTION VARIES	2
19.09	REM		General remark: UNCHARTED MH	
19.09	MHF		Finish node type, manhole, reference number: UC02A	
Depth: m				

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	1.0	1.0	20.0	2.0



Section Inspection - 12/06/2020 - UC02BX

Section 24	Inspection 24	Date 12/06/20	Time 10:50	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR UC02BX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	UC02B
Road:	Openshaw Campus	Inspected Length:	14.59 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	14.59 m	Downstream Node:	UC02A
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	900 mm		
Year Constructed:		Pipe Material:	Brick		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:
Recommendations:

Scale: 1:127	Position [m]	Code	Observation	Grade
Depth: m UC02A				
	0.00	MH	Start node type, manhole, reference number: UC02A	
	0.00	WL	Water level, 5% of the vertical dimension	
	0.00	S01	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY, POSISTION VARIES	
	1.47	S02	Infiltration, dripping from 10 o'clock to 2 o'clock, start: THROUGH BRICK WORK	
	2.40	CN	Connection other than junction at 8 o'clock, diameter: 225mm: FROM MH13	
	4.89	F02	Infiltration, dripping from 10 o'clock to 2 o'clock, finish: THROUGH BRICK WORK	
	6.43	REM	General remark: MATERIAL WRONG ON DVD	
	14.59	F01	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY, POSISTION VARIES	2
	14.59	MHF	Finish node type, manhole, reference number: UC02B	
UC02B 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	1.0	1.0	15.0	2.0



Section Inspection - 12/06/2020 - UC02CX

Section 25	Inspection 25	Date 12/06/20	Time 10:58	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR UC02CX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	UC02C
Road:	Openshaw Campus	Inspected Length:	36.85 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	36.85 m	Downstream Node:	UC02B
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	900 mm		
Year Constructed:		Pipe Material:	Brick		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:

Recommendations:

Scale:	1:321	Position [m]	Code	Observation	Grade
	0.00	MH		Start node type, manhole, reference number: UC02B	
	0.00	WL		Water level, 5% of the vertical dimension	
	0.00	S01	DEE	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY, POSISTION VARIES	
	1.30	JN		Junction at 12 o'clock, diameter: 225mm	
	12.48	CN		Connection other than junction at 2 o'clock, diameter: 225mm	
	31.31	CN		Connection other than junction at 12 o'clock, diameter: 225mm: LIVE	
	36.85	F01	DEE	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY, POSISTION VARIES	2
	36.85	MHF		Finish node type, manhole, reference number: UC02C	

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	1.0	1.0	37.0	2.0



Section Inspection - 12/06/2020 - UC03X

Section 26	Inspection 26	Date 12/06/20	Time 11:28	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR UC03X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	UC03
Road:	Openshaw Campus	Inspected Length:	13.69 m	Upstream Pipe Depth:	
Location:	Other pedestrian area	Total Length:	13.69 m	Downstream Node:	UC05
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	900 mm		
Year Constructed:		Pipe Material:	Brick		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:
Recommendations:

Scale:	1:120	Position [m]	Code	Observation	Grade
Depth: m UC03 0.00 MH Start node type, manhole, reference number: UC03 0.00 WL Water level, 5% of the vertical dimension 0.00 REM General remark: LINE HAS BEEN MORTORED IN PAST 3.74 CN Connection other than junction at 2 o'clock, diameter: 225mm: LIVE 13.68 ID Infiltration, dripping from 12 o'clock to 1 o'clock 13.69 MHF Finish node type, manhole, reference number: UC05 UC05 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	0.0	0.1	1.0	2.0

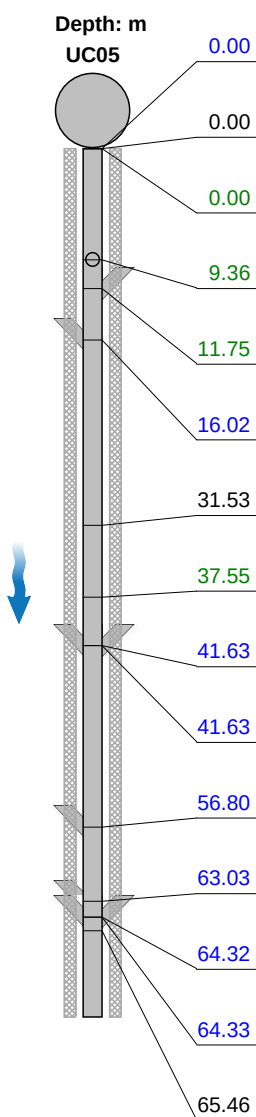
Section Inspection - 12/06/2020 - UC05X

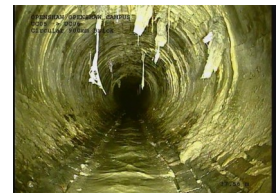
Section 27	Inspection 27	Date 12/06/20	Time 11:42	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR UC05X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	UC05
Road:	Openshaw Campus	Inspected Length:	106.96 m	Upstream Pipe Depth:	
Location:	Other (state in comments)	Total Length:	104.95 m	Downstream Node:	UC06
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	900 mm		
Year Constructed:		Pipe Material:	Brick		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

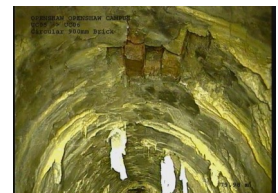
Comments:

Recommendations:

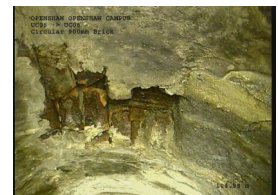
Scale: 1:633	Position [m]	Code	Observation	Grade
	Depth: m UC05			
	0.00	MH	Start node type, manhole, reference number: UC05	
	0.00	WL	Water level, 5% of the vertical dimension	
	0.00	S01	DEE	
	9.36	CXI	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY, THROUGH BRICKWORK	
	11.75	CXI	Connection intruding at 12 o'clock, diameter: 150mm, intrusion: 15%: LIVE	3
	16.02	CXI	Connection intruding at 10 o'clock, diameter: 150mm, intrusion: 5%	2
	31.53	CN	Connection other than junction at 2 o'clock, diameter: 300mm: LIVE	
	37.55	REM	General remark: RAGS CAUGHT ON DEE	
	41.63	ID	Infiltration, dripping from 12 o'clock to 1 o'clock	
	41.63	JN	Junction at 2 o'clock, diameter: 150mm	
	41.63	JN	Junction at 10 o'clock, diameter: 150mm	
	56.80	CN	Connection other than junction at 2 o'clock, diameter: 150mm	
	63.03	CN	Connection other than junction at 2 o'clock, diameter: 225mm	
	64.32	CN	Connection other than junction at 10 o'clock, diameter: 150mm	
	64.33	CN	Connection other than junction at 2 o'clock, diameter: 150mm	
	65.46	REM	General remark: RAGS HANGING FROM DEE	



ID @ 37.55 m



MB @ 79.98 m

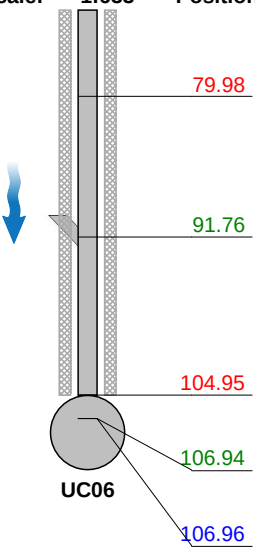


MB @ 104.95 m



Section Inspection - 12/06/2020 - UC05X

Section 27	Inspection 27	Date 12/06/20	Time 11:42	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR UC05X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Scale: 1:633	Position [m]	Code	Observation	Grade
	79.98	MB	Missing bricks at 12 o'clock	4
	91.76	CXI	Connection intruding at 2 o'clock, diameter: 150mm, intrusion: 5%	2
	104.95	MB	Missing bricks from 1 o'clock to 2 o'clock	4
	106.94	F01 DEE	Attached deposits, encrustation from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY, THROUGH BRICKWORK	2
	106.96	MHF	Finish node type, manhole, reference number: UC06	
Depth: m				

Section Pictures - 12/06/2020 - UC05X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
27	Downstream	UC05X		PJ00372741



UC05X_f57ceeea-3490-4ac7-894e-edc87a541434_20200612_115413_741.jpg, 00:06:04, 37.55 m
Infiltration, dripping from 12 o'clock to 1 o'clock



UC05X_4bbd8acb-7a18-400f-8141-a86006ade5ca_20200612_120429_867.jpg, 00:13:50, 79.98 m
Missing bricks at 12 o'clock



UC05X_3a7e4e4e-80cf-46fa-b935-b415f066d653_20200612_120931_208.jpg, 00:18:36, 104.95 m
Missing bricks from 1 o'clock to 2 o'clock



Section Inspection - 12/06/2020 - U/STR AX

Section 28	Inspection 28	Date 12/06/20	Time 13:45	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR U/STR AX
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Upstream	Upstream Node:	U/STR A
Road:	Openshaw Campus	Inspected Length:	6.43 m	Upstream Pipe Depth:	
Location:	Other (state in comments)	Total Length:	6.43 m	Downstream Node:	MH12
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:56	Position [m]	Code	Observation	Grade
Depth: m					
MH12					
	0.00	MH	Start node type, manhole, reference number: MH12		
	0.01	WL	Water level, 5% of the vertical dimension		
	0.19	S01	LU	Line deviates up, start	
	1.72	F01	LU	Line deviates up, finish	
	6.43	LU	Line deviates up		
	6.43	SA	Survey abandoned: Due to line up		

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	0	0.0	0.0	0.0	1.0



Section Inspection - 12/06/2020 - MH13X

Section 29	Inspection 29	Date 12/06/20	Time 13:58	Client's Job Ref Not Specified	Weather Rain	Pre Cleaned Yes	PLR MH13X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Large Crawler	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Openshaw	Inspection Direction:	Downstream	Upstream Node:	MH13
Road:	Openshaw Campus	Inspected Length:	7.01 m	Upstream Pipe Depth:	
Location:	Other (state in comments)	Total Length:	7.01 m	Downstream Node:	J/SEW
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	No flow control	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	No Lining	

Comments:
Recommendations:

Scale:	1:61	Position [m]	Code	Observation	Grade
Depth: m MH13 0.00 0.01 1.72 6.53 7.01 J/SEW Depth: m					
		0.00	MH	Start node type, manhole, reference number: MH13	
		0.00	S01	LD	Line deviates down, start
		0.01	WL	Water level, 5% of the vertical dimension	
		1.72	JN	Junction at 9 o'clock, diameter: 225mm: FROM MH 12	
		6.53	F01	LD	Line deviates down, finish
		7.01	CPF	Finish node type, catchpit, reference number: J/SEW	

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