



Project

Project Name: 2020_09_28 CADDICK CONS LTD OPENSHAW CAMPUS
MANCHESTER

Project Description: Converted project from v8 project

Project Number: PJ383271

Project Date: 28/09/2020

Inspection Standard: MSCC4 Sewers & Drainage GB (SRM4 Scoring)



**Lanes
Group plc**



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Project Information

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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



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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



Section Profile

Project Name	Project Number	Project Date
2020_09_28 CADDICK CONS LTD OPENSHAW CAMPUS	PJ383271	28/09/2020

Circular, 225 mm

Section	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
1	FB1	FB2	28/09/2020	Openshaw Campus	Vitrified clay pipe (i.e. all clayware)	0.00 m	0.00 m
3	FB1	CULVERT	28/09/2020	Openshaw Campus	Vitrified clay pipe (i.e. all clayware)	8.83 m	8.83 m
4	S1	DSTR	28/09/2020	Openshaw Campus	Vitrified clay pipe (i.e. all clayware)	23.68 m	23.68 m

Total: 3 Inspections x Circular 225 mm = 32.51 m Total Length and 32.51 m Inspected Length

Total: 3 Inspections = 32.51 m Total Length and 32.51 m Inspected Length



Section 1	Inspection 1	Date 28/09/20	Time 11:01	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR FB1X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	FB1
Road:	Openshaw Campus	Inspected Length:	0.00 m	Upstream Pipe Depth:	
Location:	Other (state in comments)	Total Length:	0.00 m	Downstream Node:	FB2
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:			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:	FB2 UTL				
Recommendations:					

Scale: 1:50

Position [m]

Depth: m

FB1

FB2

Depth: m

Code	Observation	Grade
OC	Start node type, other special chamber, reference number: FB1: OPEN PIPE	
WL	Water level, 5% of the vertical dimension	
REM	General remark: FAST PASS ONLY ,NO MTR	

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	0.0	0	0.0	0.0	0.0	0.0



Section Inspection - 28/09/2020 - S1X

Section 2	Inspection 3	Date 28/09/20	Time 12:37	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S1X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	S1
Road:	Openshaw Campus	Inspected Length:	18.98 m	Upstream Pipe Depth:	1.920 m
Location:	Other (state in comments)	Total Length:	18.98 m	Downstream Node:	D/STR
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	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:	FH REF UNKOWN AT ST OF CCTV				
Recommendations:					

Scale: 1:159	Position [m]	Code	Observation	Grade
Depth: 1.92 m S1				
	0.00	MH	Start node type, manhole, reference number: S1	
	0.00	WL	Water level, 5% of the vertical dimension	
	0.60	JN	Junction at 12 o'clock, diameter: 225mm	
	1.35	CCJ	Crack, circumferential at joint from 11 o'clock to 12 o'clock	2
	3.10	CCJ	Crack, circumferential at joint from 7 o'clock to 11 o'clock	2
	5.78	CCJ	Crack, circumferential at joint from 1 o'clock to 9 o'clock	2
	15.74	WL	Water level, 10% of the vertical dimension	
	17.04	CMJ	Cracks, multiple at joint from 7 o'clock to 12 o'clock	3
	17.05	FLJ	Fracture, longitudinal at joint at 8 o'clock	3
	17.59	BJ	Broken pipe at joint from 4 o'clock to 8 o'clock ,	4
	17.60	CC	Crack, circumferential from 9 o'clock to 11 o'clock	2
	17.60	CC	Crack, circumferential from 5 o'clock to 8 o'clock	2
	17.90	CXD	Connection defective, connecting pipe is damaged at 12 o'clock, diameter: 150mm	
	17.90	FC	Fracture, circumferential from 7 o'clock to 11 o'clock	3
	17.90	CC	Crack, circumferential from 1 o'clock to 4 o'clock	2

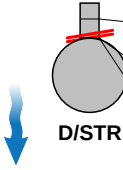


BJ @ 17.59 m



Section Inspection - 28/09/2020 - S1X

Section 2	Inspection 3	Date 28/09/20	Time 12:37	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S1X
Operator K.HAMPSON		Vehicle PF68 CZH		Camera Small Crawler	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Scale:	1:159	Position [m]	Code	Observation	Grade				
 Depth: m		18.57	LD	Line deviates down					
		18.98	SA	Survey abandoned: DUE TO LINE DOWN					
		18.98		End of pipe					
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
10	100.0	8.7	260.0	4.0	0	0.0	0.0	0.0	1.0



Section 3	Inspection 1	Date 28/09/20	Time 9:57	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Not Specified	PLR FB1X
Operator K.HAMPSON		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	FB1
Road:	Openshaw Campus	Inspected Length:	8.83 m	Upstream Pipe Depth:	
Location:		Total Length:	8.83 m	Downstream Node:	CULVERT
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:		Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Recommendations:

Scale:	1:77	Position [m]	Code	Observation	Grade
Depth: m FB1 0.70 0.70 4.83 4.83 5.55 5.55 6.51 7.68 7.68 8.02 8.83 CULVERT Depth: m	MH	MH: Start node type, manhole reference number: FB1			
	WL	WL: Water level 10%			
	S1	FL	FL: Fracture, longitudinal from 12 O'Clock S1		
	S2	CL	CL: Crack, longitudinal from 3 O'Clock S2		
		FL	FL: Fracture, longitudinal from 6 O'Clock	3	
		D	D: Deformed sewer or drain 10%	1	
		FC	FC: Fracture, circumferential from 12 O'Clock to 3 O'Clock	3	
	F1	FL	FL: Fracture, longitudinal from 12 O'Clock S1	3	
	F2	CL	CL: Crack, longitudinal from 3 O'Clock S2	2	
	DEX	DEX: Settled deposits, other 20%: POSS PIECE OF TAR	1		
MHF	MHF: Finish node type, manhole reference number: MHF: FH REF WRONG ON VIDEO				

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	90.0	26.0	230.0	3.0	1	0.0	0.0	0.0	1.0



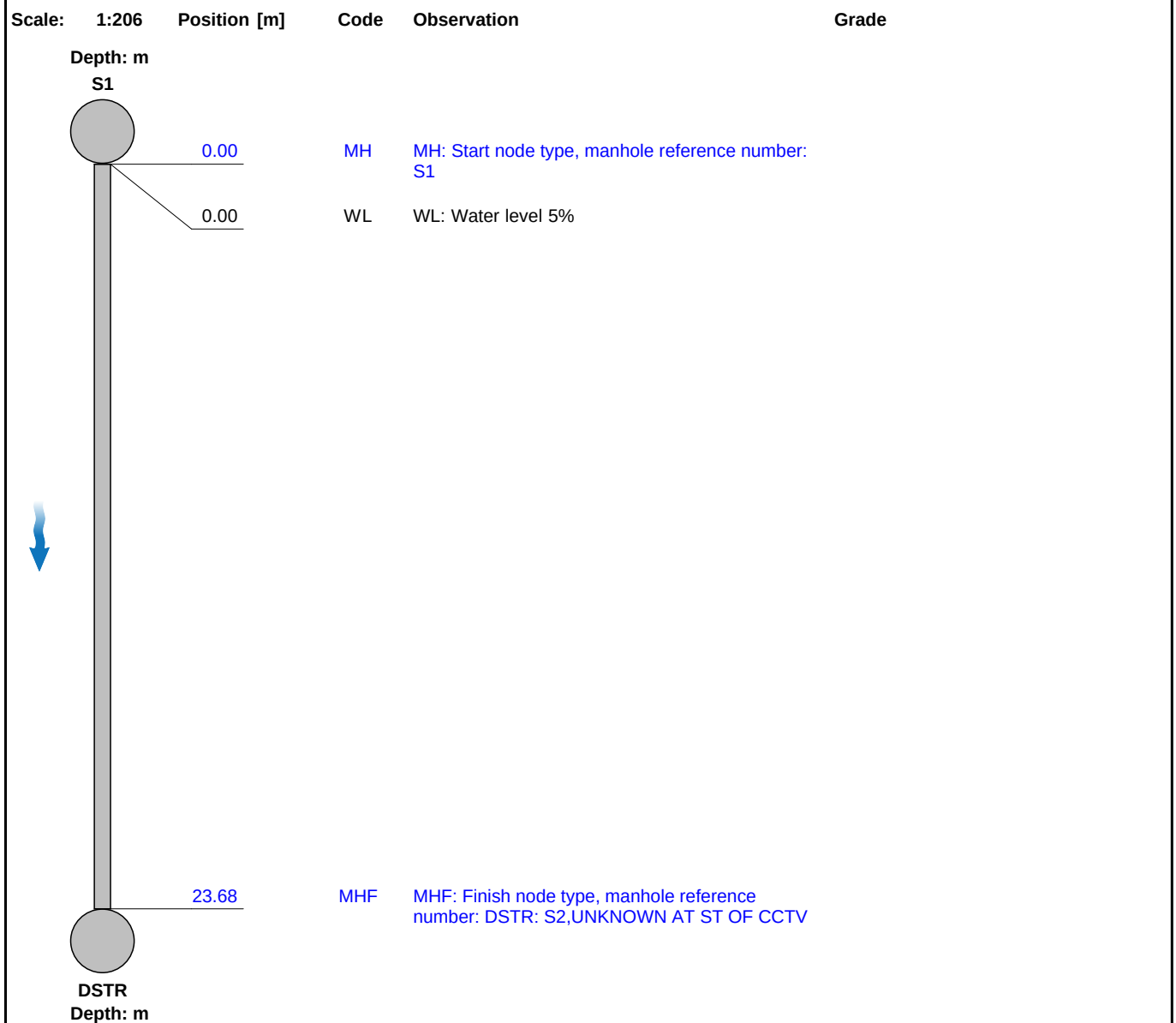
Section Inspection - 28/09/2020 - S1X

Section 4	Inspection 1	Date 28/09/20	Time 13:11	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Not Specified	PLR S1X
Operator K.HAMPSON		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 2

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	S1
Road:	Openshaw Campus	Inspected Length:	23.68 m	Upstream Pipe Depth:	
Location:		Total Length:	23.68 m	Downstream Node:	DSTR
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
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



WinCan

Notes:

Thank you for choosing to use WinCan to carry out your drainage investigation works.

The results and views carried in this report are those of the engineer(s) appointed to carry out the investigation and are considered relevant on the day of the survey. Drain and sewer performance is known to alter over time, so liability cannot be accepted for differences between the recorded data and the actual data at a time after this report was generated.

This survey has been created in accordance with the drainage standard used in the country and language settings for this PC.

If a DVD has been supplied with this report, please note that it can only be used in a Windows based PC. Please browse the DVD and navigate to the PDF folder to find project-based documents such as drawings, engineer's site notes and survey specifications amongst others.

CCTV subsidence investigations do not account for the water tightness of the pipes and are merely a visual inspection of inside of the drains. CCTV drainage engineers are generally not qualified to comment on the causes of subsidence, and can only suggest required remedial actions for the pipes, and not the affected buildings.

Subsidence is a building structural failure, which can occur for many reasons. Although drainage failures can contribute to subsidence problems, other causes should always be investigated as part of a considered approach. In order to eliminate drains from suspicion, WinCan suggests that all pipes within at least 10m of the subsidence area be pressure tested over and above a CCTV inspection, and remedial suggestions considered based on the findings.

Unless otherwise specified in an associated task order (or similar), the data gathered in this report may not be suitable for use as a pre-lining investigation. WinCan are happy to carry out such surveys, but this must be agreed prior to the commencement of the works, and the client must specify the data they wish to capture and the acceptable tolerances.

Where GPS coordinates and heights have been issued within this report, they are to 1m accuracy, and 2m accuracy for heights. Greater accuracy can be provided on request.