CCTV Inspection Report

Client: Assix Construct - Sheffield

Site: Bank End Academy, Underwood Avenue,

02/07/2026

Job Number: CCTV36808M

Drainage 2000

Unit 38, Station Lane Industrial Estate, Old Whittington, Chesterfield, S41 9QX

Tel: 01246 456 300

Project Information

Drainage 2000
Unit 38, Station Lane Ind. Est
Old Whittington
Chesterfield
S41 9QX

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**

Client Details:

Assix Construct - Sheffield
Suite F6/F7,
Epic House,
18 Darnall Road,
Sheffield
S9 5AA

Site Details:

Bank End Academy, Underwood Avenue,
Worsborough Dale
Barnsley
S70 4AZ

Contractor Details:

Drainage 2000
Unit 38, Station Lane Ind. Est
Old Whittington
Chesterfield
S41 9QX

Office Contact Number: 01246 456 300

Purpose of Survey:

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Defect Grade Descriptions

Job Number	Surveyed by (Operator)	Base Unit	Date
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1: Occurences without damage. For example, laterals, joints,etc.

NO DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4: Constructional damages with insufficent static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

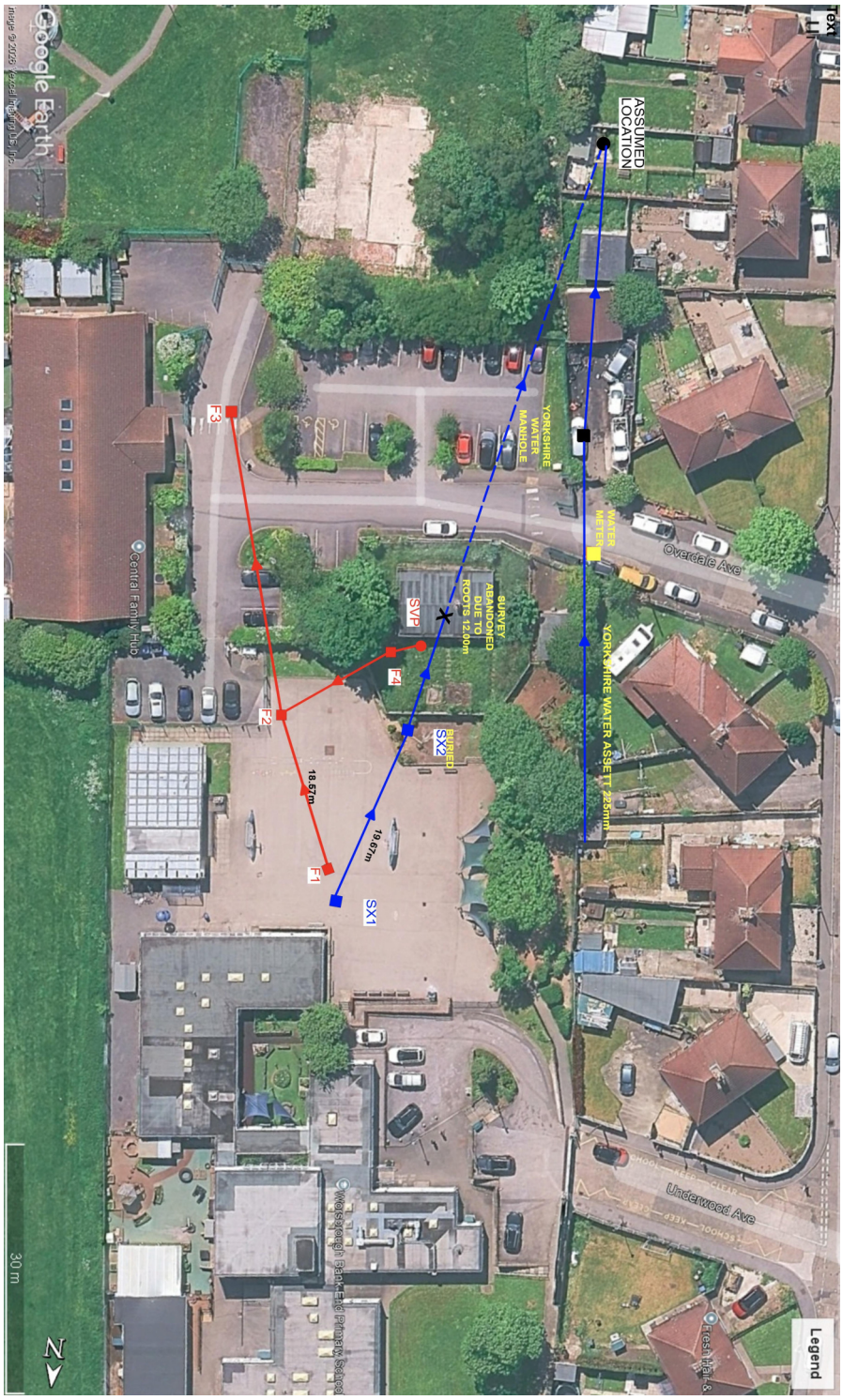
REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.

REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**

This sketch is not to scale and does not represent the exact routing of the drainage system



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Site Photos

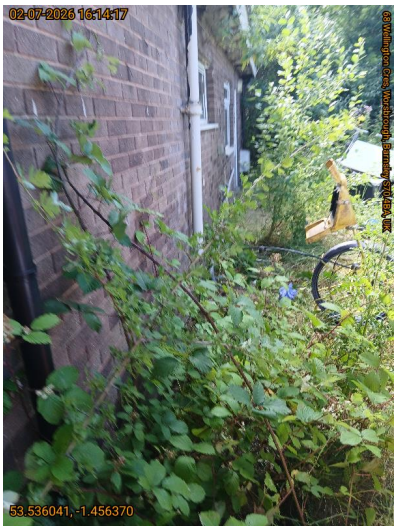
Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Other Site Photos:



Other Site Photos:



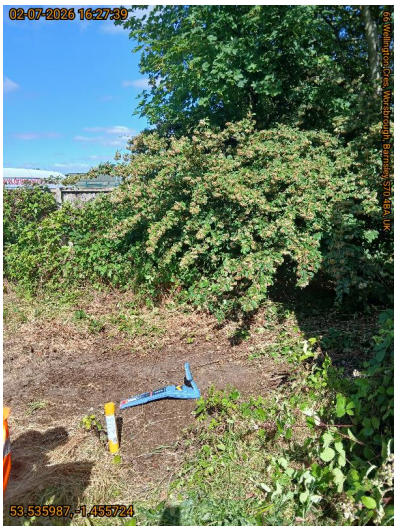
Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:

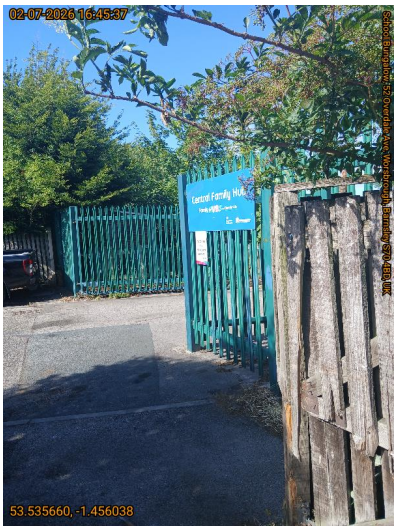
Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:

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Site Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:

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Site Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:



Other Site Photos:

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Site Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Other Site Photos:



Other Site Photos:

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CCTV Inspection Report

Section Number	Surveyed by (Operator)	Camera System	Date/Time	Weather
1	**Richard**	**6764YTVYJ1**	**02/07/2026 -**	**1 - Dry**
Job Number	Client Job Number	Pre Cleaned	Flow Control	Temperature
CCTV36808M		**Unknown**		
Place	Road	Ground Surface	Type of Drain/Sewer	Construction Year
			Gravity drain/sewer	
Drainage Area	Division	Location Type	Purpose of Inspection	Criticality
		Other pedestrian area	**X**	**A**

Lining Type Lining Material Duty **Surface water**	Shape/Size **Circular - 150mm** Material **Vitrified clay** Direction **Downstream**	Start MH **SX1** End MH **SX2** Total length **19.67 metres**

M/H Ref:SX1 | I/L : metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, Manhole, reference SX1	905499	Null / 0
0.00	WL	Water level 5% height/diameter	905500	Null / 0
17.15	RFJ	Roots fine at joint	905501	Service / 2
18.09	RFJ	Roots fine at joint	905502	Service / 2
18.82	RMJ	Roots mass 30% cross-sectional area loss at joint	905503	Service / 5
19.43	WL	Water level 10% height/diameter	905504	Comment / 0
19.67	MHF	Finish node type, manhole, reference SX2	905505	Comment / 0

M/H Ref:SX2 | I/L : metres

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Start node type, Manhole, reference SX1



Water level 5% height/diameter



Roots fine at joint



Roots fine at joint



Roots mass 30% cross-sectional area loss at joint



Water level 10% height/diameter

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Finish node type, manhole, reference SX2

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CCTV Inspection Report

Section Number	Surveyed by (Operator)	Camera System	Date/Time	Weather
2	**Richard**	**6764YTVYJ1**	**02/07/2026 -**	**1 - Dry**
Job Number	Client Job Number	Pre Cleaned	Flow Control	Temperature
CCTV36808M		**Unknown**		
Place	Road	Ground Surface	Type of Drain/Sewer	Construction Year
			Gravity drain/sewer	
Drainage Area	Division	Location Type	Purpose of Inspection	Criticality
		Other pedestrian area	**X**	**A**

Lining Type Lining Material Duty **Surface water**	Shape/Size **Circular - 225mm** Material **Vitrified clay** Direction **Downstream**	Start MH **SX3** End MH **X** Total length **12.77 metres**

M/H Ref:SX3 | I/L : metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, Manhole, reference SX3	905511	Null / 0
0.00	WL	Water level 5% height/diameter	905512	Null / 0
1.77	CCJ	Crack circumferential from 12 to 04 o'clock at joint	905513	Structural / 2
2.72	DEEJ	Attached deposits, encrustation from 07 to 10 o'clock 5% cross-sectional area loss at joint	905514	Service / 2
2.72	DEEJ	Attached deposits, encrustation from 02 to 05 o'clock 5% cross-sectional area loss at joint	905515	Service / 2
3.66	DEEJ	Attached deposits, encrustation from 02 to 05 o'clock 5% cross-sectional area loss at joint	905516	Service / 2
4.37	CCJ	Crack circumferential from 11 to 01 o'clock at joint	905517	Structural / 2
5.20	LL	Line of drain/sewer deviates left	905518	Comment / 0
7.80	LD	Line of drain/sewer deviates down	905519	Comment / 0
9.58	DEEJ (S1)	Attached deposits, encrustation from 07 to 09 o'clock 5% cross-sectional area loss at joint, Start	905520	Service / 2
9.58	DEEJ (S2)	Attached deposits, encrustation from 03 to 05 o'clock 5% cross-sectional area loss at joint, Start	905521	Service / 2
10.88	WL	Water level 10% height/diameter	905522	Comment / 0
12.30	WL	Water level 20% height/diameter	905523	Comment / 0
12.77	RMJ	Roots mass 20% cross-sectional area loss at joint	905524	Service / 3
12.77	DEEJ (F1)	Attached deposits, encrustation from 07 to 09 o'clock 5% cross-sectional area loss at joint, Finished	905525	Service / 2
12.77	DEEJ (F2)	Attached deposits, encrustation from 03 to 05 o'clock 5% cross-sectional area loss at joint, Finished	905526	Service / 2
12.77	SA	Survey abandoned - Remark: DUE TO ROOTS MASS	905527	Comment / 0

M/H Ref:X | I/L : metres

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Start node type, Manhole, reference SX3



Water level 5% height/diameter



Crack circumferential from 12 to 04 o'clock at joint



Attached deposits, encrustation from 07 to 10 o'clock 5% cross-sectional area loss at joint



Attached deposits, encrustation from 02 to 05 o'clock 5% cross-sectional area loss at joint



Attached deposits, encrustation from 02 to 05 o'clock 5% cross-sectional area loss at joint

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Crack circumferential from 11 to 01 o'clock at joint



Line of drain/sewer deviates left



Line of drain/sewer deviates down



Attached deposits, encrustation from 07 to 09 o'clock 5% cross-sectional area loss at joint, Start



Attached deposits, encrustation from 03 to 05 o'clock 5% cross-sectional area loss at joint, Start



Water level 10% height/diameter

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**



Water level 20% height/diameter



Roots mass 20% cross-sectional area loss at joint



Attached deposits, encrustation from 07 to 09 o'clock 5% cross-sectional area loss at joint, Finished



Attached deposits, encrustation from 03 to 05 o'clock 5% cross-sectional area loss at joint, Finished



Survey abandoned - Remark: DUE TO ROOTS MASS

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CCTV Inspection Report

Section Number	Surveyed by (Operator)	Camera System	Date/Time	Weather
3	**Richard**	**6764YTVYJ1**	**11/09/2026 - 13:27**	**Dry**
Job Number	Client Job Number	Pre Cleaned	Flow Control	Temperature
CCTV36808M		**Not Cleaned**	**No flow control**	**Temperature is above freezing**
Place	Road	Ground Surface	Type of Drain/Sewer	Construction Year
Barnsley	**Bank End Academy**	**Tarmac**	**Gravity drain/sewer**	**1970**
Drainage Area	Division	Location Type	Purpose of Inspection	Criticality
		Property with buildings	**F**	**A**

Lining Type **No lining** Lining Material Duty **Combined**	Shape/Size **Circular - 150mm** Material **Vitrified clay** Direction **Upstream**	Start MH **F2** End MH **F1** Total length **18.66 metres**

M/H Ref:F2 | I/L :mm | M/H Depth: 1.8mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference F2	905528	Comment / 0
0.00	WL	Water level 10% height/diameter	905529	Comment / 0
0.40	MCPF	Material of drain/sewer changes to Pitch Fibre at this point	905530	Comment / 0
0.48	WL	Water level 20% height/diameter	905531	Comment / 0
2.01	DES	Settled deposits fine 20% cross-sectional area loss	905532	Service / 4
4.38	WL	Water level 10% height/diameter	905533	Comment / 0
12.54	JN	Junction at 10 o'clock, diameter 100mm	905534	Comment / 0
18.05	MCVC	Material of drain/sewer changes to Vitrified Clay at this point	905535	Comment / 0
18.54	CC	Crack circumferential from 7 to 5 o'clock	905536	Structural / 2
18.66	MHF	Finish node type, manhole, reference number F1	905537	Comment / 0

M/H Ref:F1 | I/L :mm | M/H Depth: 1.65mm

CCTV Inspection Photos

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Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



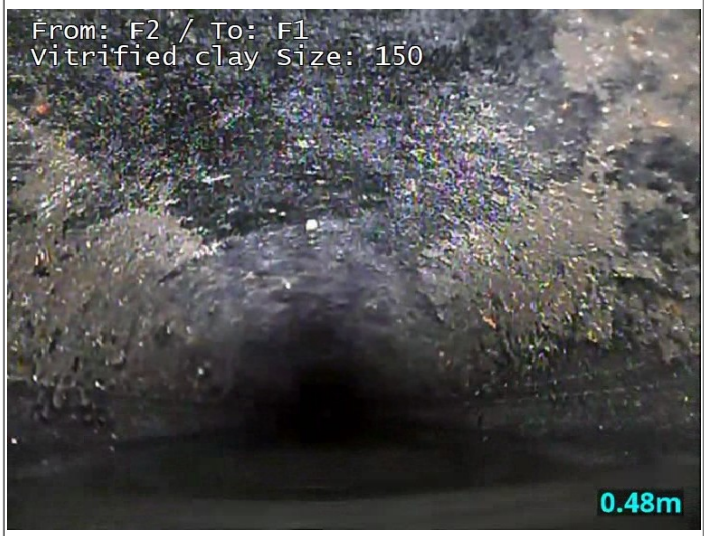
Start node type, manhole, reference F2



Water level 10% height/diameter



Material of drain/sewer changes to Pitch Fibre at this point



Water level 20% height/diameter



Settled deposits fine 20% cross-sectional area loss



Water level 10% height/diameter

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



Junction at 10 o'clock, diameter 100mm



Material of drain/sewer changes to Vitrified Clay at this point



Crack circumferential from 7 to 5 o'clock



Finish node type, manhole, reference number F1

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CCTV Inspection Report

Section Number	Surveyed by (Operator)	Camera System	Date/Time	Weather
4	**Richard**	**6764YTVYJ1**	**11/09/2026 - 13:35**	**Dry**
Job Number	Client Job Number	Pre Cleaned	Flow Control	Temperature
CCTV36808M		**Not Cleaned**	**No flow control**	**Temperature is above freezing**
Place	Road	Ground Surface	Type of Drain/Sewer	Construction Year
Barnsley	**Bank End Academy**	**Tarmac**	**Gravity drain/sewer**	**1970**
Drainage Area	Division	Location Type	Purpose of Inspection	Criticality
		Property with buildings	**F**	**A**

Lining Type **No lining** Lining Material Duty **Combined**	Shape/Size **Circular - 150mm** Material **Vitrified clay** Direction **Downstream**	Start MH **F2** End MH **F3** Total length **38.6 metres**

M/H Ref:F2 | I/L :mm | M/H Depth: 1.8mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference F2	905538	Comment / 0
0.00	WL	Water level 10% height/diameter	905539	Comment / 0
22.92	RFJ	Roots fine, at joint	905540	Service / 2
23.77	CCJ	Crack circumferential from 10 to 3 o'clock, at joint	905541	Structural / 2
24.87	FLJ	Fracture longitudinal at 1 o'clock, at joint	905542	Structural / 3
25.96	FCJ	Fracture circumferential from 2 to 3 o'clock, at joint	905543	Structural / 3
37.48	RFJ	Roots fine, at joint	905544	Service / 2
38.60	MHF	Finish node type, manhole, reference number F3	905545	Comment / 0

M/H Ref:F3 | I/L :mm | M/H Depth: 1.91mm

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CCTV Inspection Photos

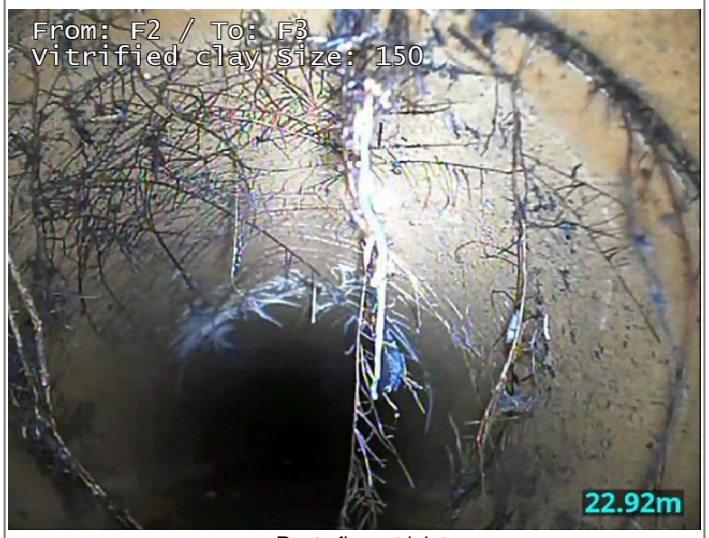
Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



Start node type, manhole, reference F2



Water level 10% height/diameter



Roots fine, at joint



Crack circumferential from 10 to 3 o'clock, at joint



Fracture longitudinal at 1 o'clock, at joint



Fracture circumferential from 2 to 3 o'clock, at joint

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



Roots fine, at joint



Finish node type, manhole, reference number F3

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CCTV Inspection Report

Section Number	Surveyed by (Operator)	Camera System	Date/Time	Weather
5	**Richard**	**6764YTVYJ1**	**11/09/2026 - 17:17**	**Dry**
Job Number	Client Job Number	Pre Cleaned	Flow Control	Temperature
CCTV36808M		**Not Cleaned**	**No flow control**	**Temperature is above freezing**
Place	Road	Ground Surface	Type of Drain/Sewer	Construction Year
Barnsley	**Bank End Academy**	**Grass**	**Gravity drain/sewer**	**1970**
Drainage Area	Division	Location Type	Purpose of Inspection	Criticality
		Gardens	**F**	**A**

Lining Type **No lining** Lining Material Duty **Combined**	Shape/Size **Circular - 100mm** Material **Vitrified clay** Direction **Downstream**	Start MH **F4** End MH **F2** Total length **19.6 metres**

M/H Ref:F4 | I/L :mm | M/H Depth: 0.55mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference F4	905546	Comment / 0
0.00	WL	Water level 5% height/diameter	905547	Comment / 0
0.10	RF	Roots fine	905548	Service / 2
0.47	RFJ	Roots fine, at joint	905549	Service / 2
1.77	RFJ	Roots fine, at joint	905550	Service / 2
2.95	RFJ	Roots fine, at joint	905551	Service / 2
4.73	JN	Junction at 3 o'clock, diameter 100mm	905552	Comment / 0
6.38	RFJ	Roots fine, at joint	905553	Service / 2
11.82	JD	Joint displaced 10% of diameter	905554	Structural / 1
11.82	DEC (S1)	Settled deposits hard or compacted 10% cross-sectional area loss - Remark: CONCRETE , Start	905555	Service / 3
14.78	SCC (S1)	Shape of drain/sewer changes to 150mm	905556	Comment / 0
15.14	JN	Junction at 10 o'clock, diameter 100mm	905557	Comment / 0
17.05	JDM	Joint displaced medium	905558	Structural / 1
17.90	LL	Line of drain/sewer deviates left	905560	Comment / 0
17.90	DEC (F1)	Settled deposits hard or compacted 10% cross-sectional area loss - Remark: CONCRETE , Finished	905561	Service / 3
17.90	LD	Line of drain/sewer deviates down	905559	Comment / 0
18.51	LR (F1)	Line of drain/sewer deviates right	905562	Comment / 0
19.50	DES	Settled deposits fine 20% cross-sectional area loss	905563	Service / 4
19.60	MHF	Finish node type, manhole, reference number F2	905564	Comment / 0

M/H Ref:F2 | I/L :mm | M/H Depth: 1.8mm

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



Start node type, inspection chamber, reference F4



Water level 5% height/diameter



Roots fine



Roots fine, at joint



Roots fine, at joint



Roots fine, at joint

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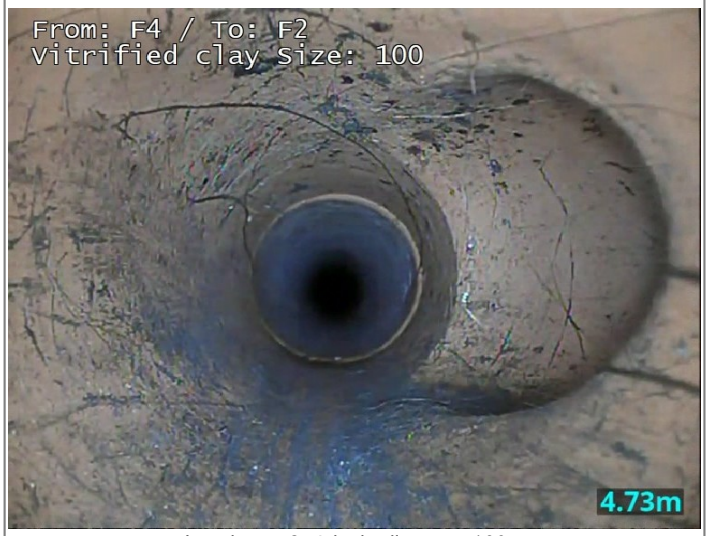
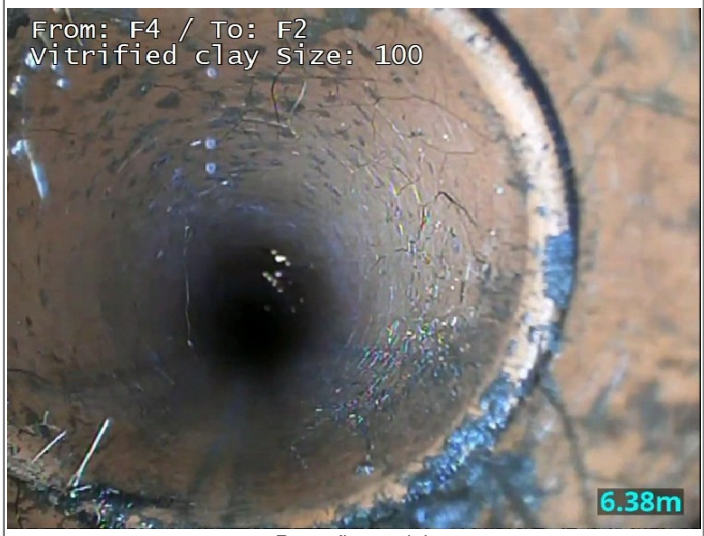
CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



Junction at 3 o'clock, diameter 100mm



Roots fine, at joint



Joint displaced 10% of diameter



Settled deposits hard or compacted 10% cross-sectional area loss - Remark: CONCRETE , Start



Shape of drain/sewer changes to 150mm



Junction at 10 o'clock, diameter 100mm

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CCTV Inspection Photos

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



Joint displaced medium



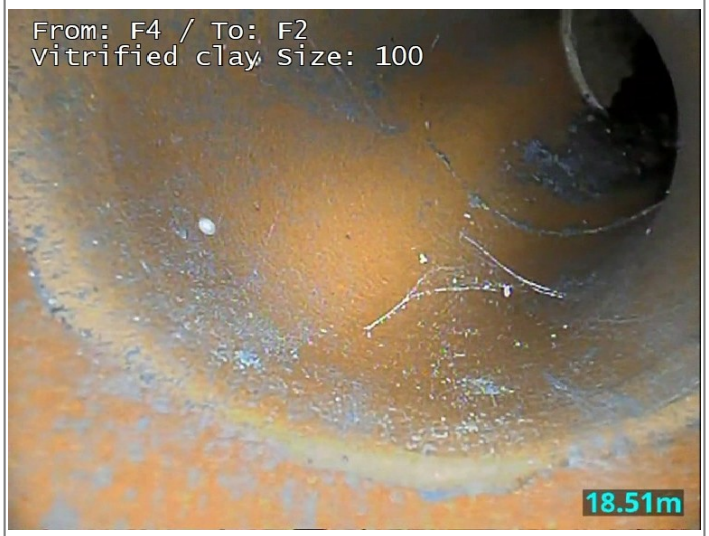
Line of drain/sewer deviates left



Settled deposits hard or compacted 10% cross-sectional area loss - Remark: CONCRETE , Finished



Line of drain/sewer deviates down



Line of drain/sewer deviates right



Settled deposits fine 20% cross-sectional area loss

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**11/09/2026**



Finish node type, manhole, reference number F2

Drainage 2000
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Report Summary

Job Number	Surveyed by (Operator)	Base Unit	Date
CCTV36808M	**Richard**	**6764YTVYJ1**	**02/07/2026**

Job Information

Total Distance Surveyed: **109.3 metres**
Engineer: **Richard**
Number of Surveys: **5**
Number of Surveys grade 4 or above: **0**

Section 1 Overview (02/07/2026)

Manholes: **SX1 to SX2**
Pipe Length: **19.67 metres**
Structural Grade: **0**
Service Grade: **5**
Material: **Vitrified clay**
Pipe Size: **150mm**
Use: **Surface water**

Section 2 Overview (02/07/2026)

Manholes: **SX3 to X**
Pipe Length: **12.77 metres**
Structural Grade: **2**
Service Grade: **3**
Material: **Vitrified clay**
Pipe Size: **225mm**
Use: **Surface water**

Section 3 Overview (11/09/2026)

Manholes: **F2 to F1**
Pipe Length: **18.66 metres**
Structural Grade: **2**
Service Grade: **4**
Material: **Vitrified clay**
Pipe Size: **150mm**
Use: **Combined**

Section 4 Overview (11/09/2026)

Manholes: **F2 to F3**
Pipe Length: **38.6 metres**
Structural Grade: **3**
Service Grade: **2**
Material: **Vitrified clay**
Pipe Size: **150mm**
Use: **Combined**

Section 5 Overview (11/09/2026)

Manholes: **F4 to F2**
Pipe Length: **19.6 metres**
Structural Grade: **1**
Service Grade: **4**
Material: **Vitrified clay**
Pipe Size: **100mm**
Use: **Combined**