



SURVEY & ENGINEERING PROJECTS

HEAD OFFICE:

3D Selby Place
Stanley Industrial Estate
Skelmersdale
Lancashire
WN8 8EF

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Project Information

Job Number
S26205

Surveyed by (Operator)
JOE COLLINS

Base Unit
LSDUKESDT

Date
29/05/2025

Client Details:

CURTINS CONSULTING

Site Details:

HAWTHORN LANE

Contractor Details:

Survey and Engineering Projects Ltd
Unit 3D Selby Place
Stanley Industrial Estate
Skelmersdale
Lancashire
WN88EF

Office Contact Number: 01695 729835

Purpose of Survey:



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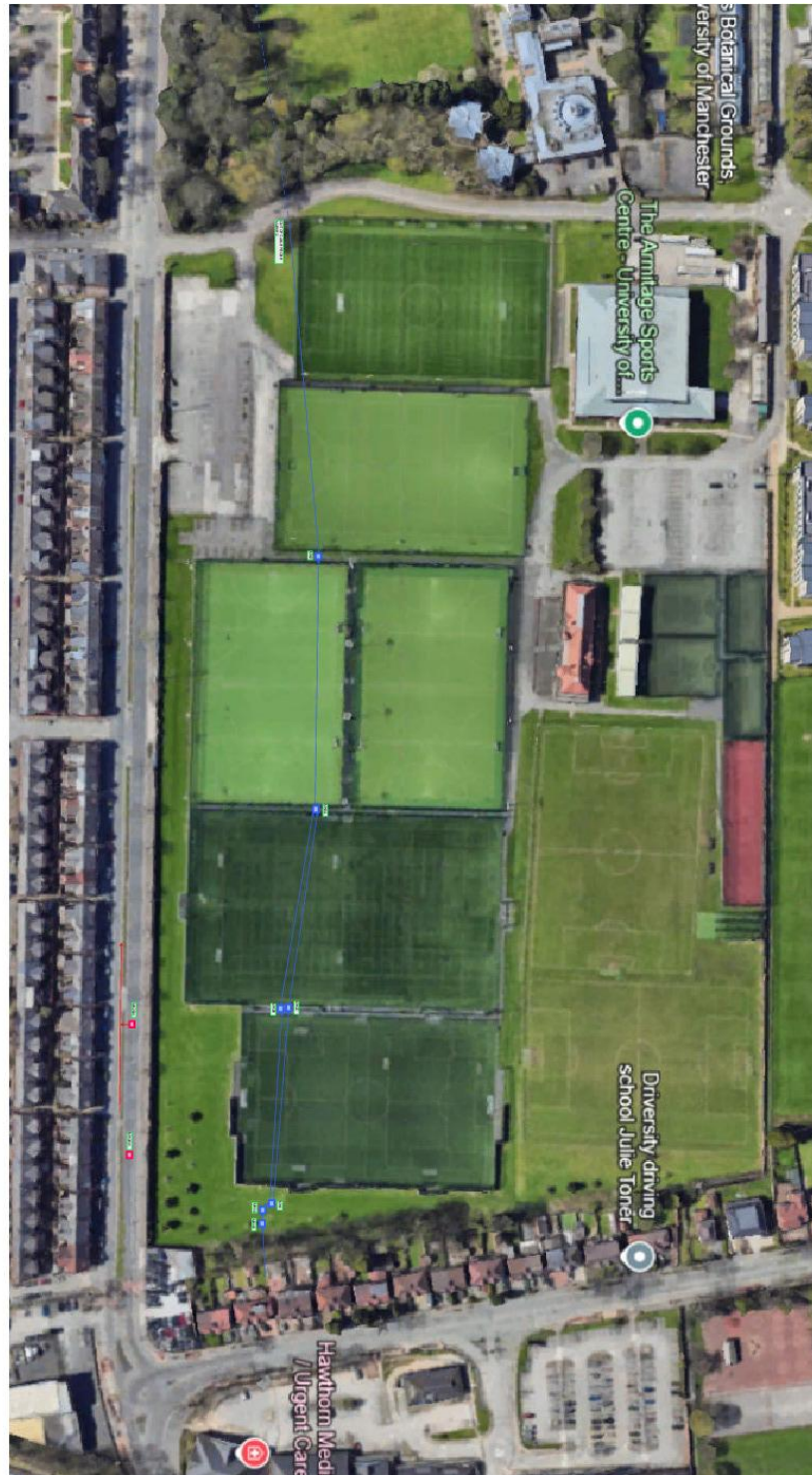
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Site Drawings/Photos

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





Defect Grade Descriptions

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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 insufficient 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.			



Report Summary

Job Number S26205	Surveyed by (Operator) JOE COLLINS	Base Unit LSDUKESDT	Date 29/05/2025
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Job Information

Total Distance Surveyed: **593.97 meters**
Engineer: **JOE COLLINS**
Number of Surveys: **7**
Number of Surveys grade 4 or above: **0**

Section 1 Overview (29/05/2025)

Manholes: **UU2901 to X**
Pipe Length: **9 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Brick**
Pipe Size: **0mm**
Use: **Combined**

Section 2 Overview (30/07/2025)

Manholes: **MH2 to MH3**
Pipe Length: **150 metres**
Structural Grade: **0**
Service Grade: **5**
Material: **Brick**
Pipe Size: **1500mm**
Use: **Surface water**

Section 3 Overview (30/07/2025)

Manholes: **MH2 to MH2A**
Pipe Length: **102.92 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Brick**
Pipe Size: **1500mm**
Use: **Surface water**

Section 4 Overview (30/07/2025)

Manholes: **MH1 to MH2B**
Pipe Length: **84.77 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **950mm**
Use: **Surface water**

Section 5 Overview (30/07/2025)

Manholes: **MH1 to MH2C**
Pipe Length: **85.84 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **950mm**
Use: **Surface water**



Report Summary

Job Number S26205	Surveyed by (Operator) JOE COLLINS	Base Unit LSDUKESSDT	Date 29/05/2025
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Section 6 Overview (30/07/2025)

Manholes: **MH2B to MH2A**
Pipe Length: **81.04 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **950mm**
Use: **Surface water**

Section 7 Overview (30/07/2025)

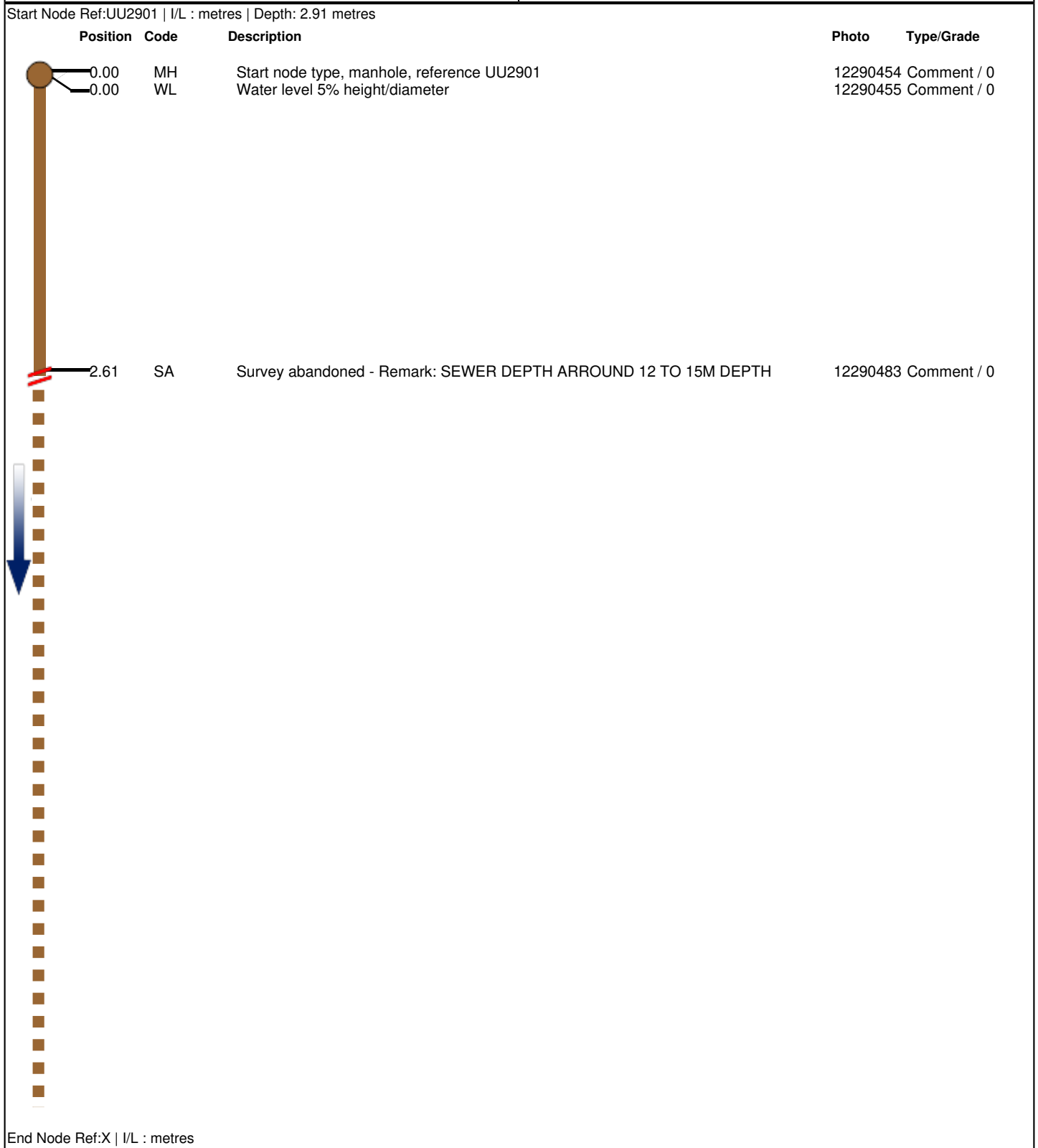
Manholes: **MH2C to MH2A**
Pipe Length: **80.4 metres**
Structural Grade: **0**
Service Grade: **3**
Material: **Polyvinyl chloride**
Pipe Size: **950mm**
Use: **Surface water**



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Survey and Engineering Projects Ltd
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Surveyed by (Operator) JOE COLLINS	Job Number S26205	Pipe Length Reference(PLR) UU2901 X	Date 29/05/2025	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit LSDUKESSDT	Section Number 1
Road HAWTHORN LANE Place Location		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 0mm Material Brick Category		Start Node UU2901 End Node X Total length 9 metres	
Scale 1:0.47 Direction Downstream		View via iTouch Live Download		



End Node Ref:X | I/L : metres

CCTV Inspection Photos

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Start node type, manhole, reference UU2901



Water level 5% height/diameter



Survey abandoned - Remark: SEWER DEPTH ARROUND 12 TO 15M DEPTH



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Surveyed by (Operator) JOE COLLINS	Job Number S26205	Pipe Length Reference(PLR) MH2 X	Date 30/07/2025	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 5/0	Base Unit LSDUKESSDT	Section Number 2

Road HAWTHORN LANE	Division
Place	District
Location	Location Details

Purpose Duty Surface water Catchment	Shape/Size 1500mm Material Brick Category	Start Node MH2 End Node MH3 Total length 150 metres
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Scale 1:7.87 Direction Downstream	View via iTouch Live	Download
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Start Node Ref:MH2 | I/L : metres | Depth: 2.75 metres

Position	Code	Description	Photo	Type/Grade
	0.00	MH	Start node type, manhole, reference MH2	12733953 Comment / 0
	0.00	WL	Water level 5% height/diameter	12733954 Comment / 0
	70.55	DEC	Settled deposits hard or compacted 10% cross-sectional area loss	12734052 Service / 3
	74.11	OBI	Other obstacles protruding through wall from 10 to 2 o'clock 10% cross-sectional area loss	12734072 Service / 5
	79.20	CN	Connection other than junction at 2 o'clock, diameter 150mm	12734073 Comment / 0
	129.47	DEZ	Other attached deposits from 7 to 10 o'clock 10% cross-sectional area loss - Remark	12734107 Service / 3
	137.52	CN	Connection other than junction at 3 o'clock, diameter 300mm	12734148 Comment / 0
	137.53	CN	Connection other than junction at 10 o'clock, diameter 150mm	12734151 Comment / 0
	140.83	SA	Survey abandoned - Remark: OUT OF CABLE OVERLAP REQUIRED	12734160 Comment / 0

End Node Ref:MH3 | I/L : metres

Job Number S26205	Surveyed by (Operator) JOE COLLINS	Base Unit LSDUKESDT	Date 30/07/2025
			
Start node type, manhole, reference MH2			
			
Water level 5% height/diameter			
From: MH2 / To: MH3 Size: 1500mm 			
Settled deposits hard or compacted 10% cross-sectional area loss			
From: MH2 / To: MH3 Size: 1500mm 			
Other obstacles protruding through wall from 10 to 2 o'clock 10% cross-sectional area loss			
From: MH2 / To: MH3 Size: 1500mm 			
Connection other than junction at 2 o'clock, diameter 150mm			
From: MH2 / To: MH3 Size: 1500mm 			
Other attached deposits from 7 to 10 o'clock 10% cross-sectional area loss - Remark			

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Connection other than junction at 3 o'clock, diameter 300mm



Connection other than junction at 10 o'clock, diameter 150mm



Survey abandoned - Remark: OUT OF CABLE OVERLAP REQUIRED



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Surveyed by (Operator) JOE COLLINS	Job Number S26205	Pipe Length Reference(PLR) MH2A X	Date 30/07/2025	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit LSDUKESSDT	Section Number 3
Road HAWTHORN LANE Place Location		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 1500mm Material Brick Category		Start Node MH2 End Node MH2A Total length 102.92 metres	
Scale 1:5.40 Direction Upstream		View via iTouch Live Download		

Start Node Ref:MH2 | I/L : metres | Depth: 2.75 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH2	12734640	Comment / 0
0.00	WL	Water level 5% height/diameter	12734643	Comment / 0
102.92	MHF	Finish node type, manhole, reference MH2A	12734711	Comment / 0

End Node Ref:MH2A | I/L : metres

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Start node type, manhole, reference MH2



Water level 5% height/diameter



Finish node type, manhole, reference MH2A

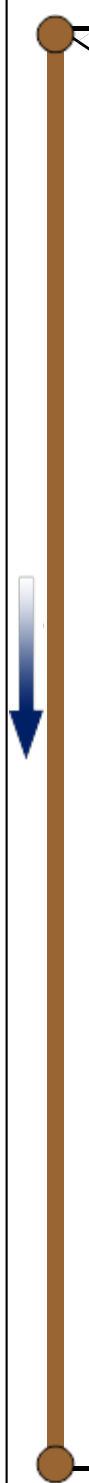


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Surveyed by (Operator) JOE COLLINS	Job Number S26205	Pipe Length Reference(PLR) MH1 X	Date 30/07/2025	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit LSDUKESDT	Section Number 4
Road HAWTHORN LANE Place Location		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 950mm Material Polyvinyl chloride Category		Start Node MH1 End Node MH2B Total length 84.77 metres	
Scale 1:4.45 Direction Downstream		View via iTouch Live Download		

Start Node Ref:MH1 | I/L : metres | Depth: 2.24 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH1	12735998	Comment / 0
0.00	WL	Water level 5% height/diameter	12735999	Comment / 0
				
84.77	MHF	Finish node type, manhole, reference MH2B	12736046	Comment / 0

End Node Ref:MH2B | I/L : metres

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Job Number S26205	Surveyed by (Operator) JOE COLLINS	Base Unit LSDUKESDT	Date 30/07/2025
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Start node type, manhole, reference MH1



Water level 5% height/diameter



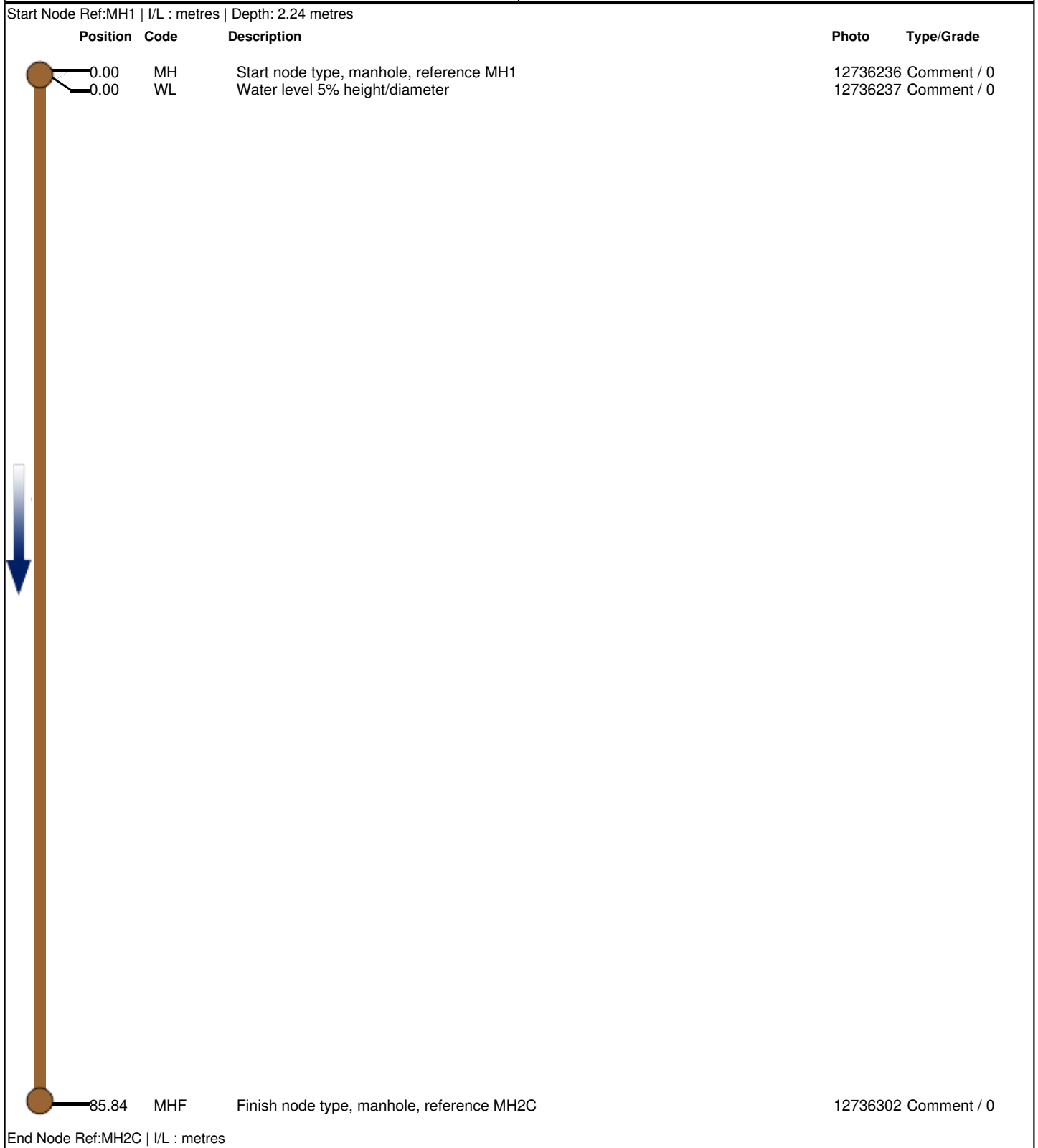
Finish node type, manhole, reference MH2B



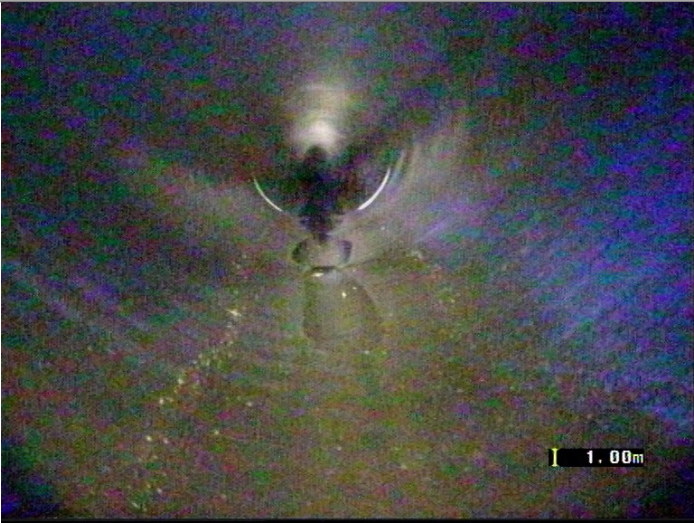
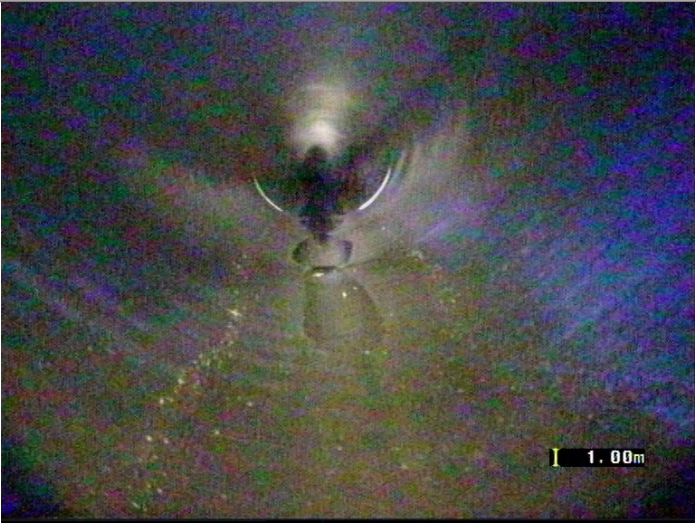
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Surveyed by (Operator) JOE COLLINS	Job Number S26205	Pipe Length Reference(PLR) MH1 X	Date 30/07/2025	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit LSDUKESDT	Section Number 5
Road HAWTHORN LANE Place Location		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 950mm Material Polyvinyl chloride Category		Start Node MH1 End Node MH2C Total length 85.84 metres	
Scale 1:4.51 Direction Downstream		View via iTouch Live  Download 		



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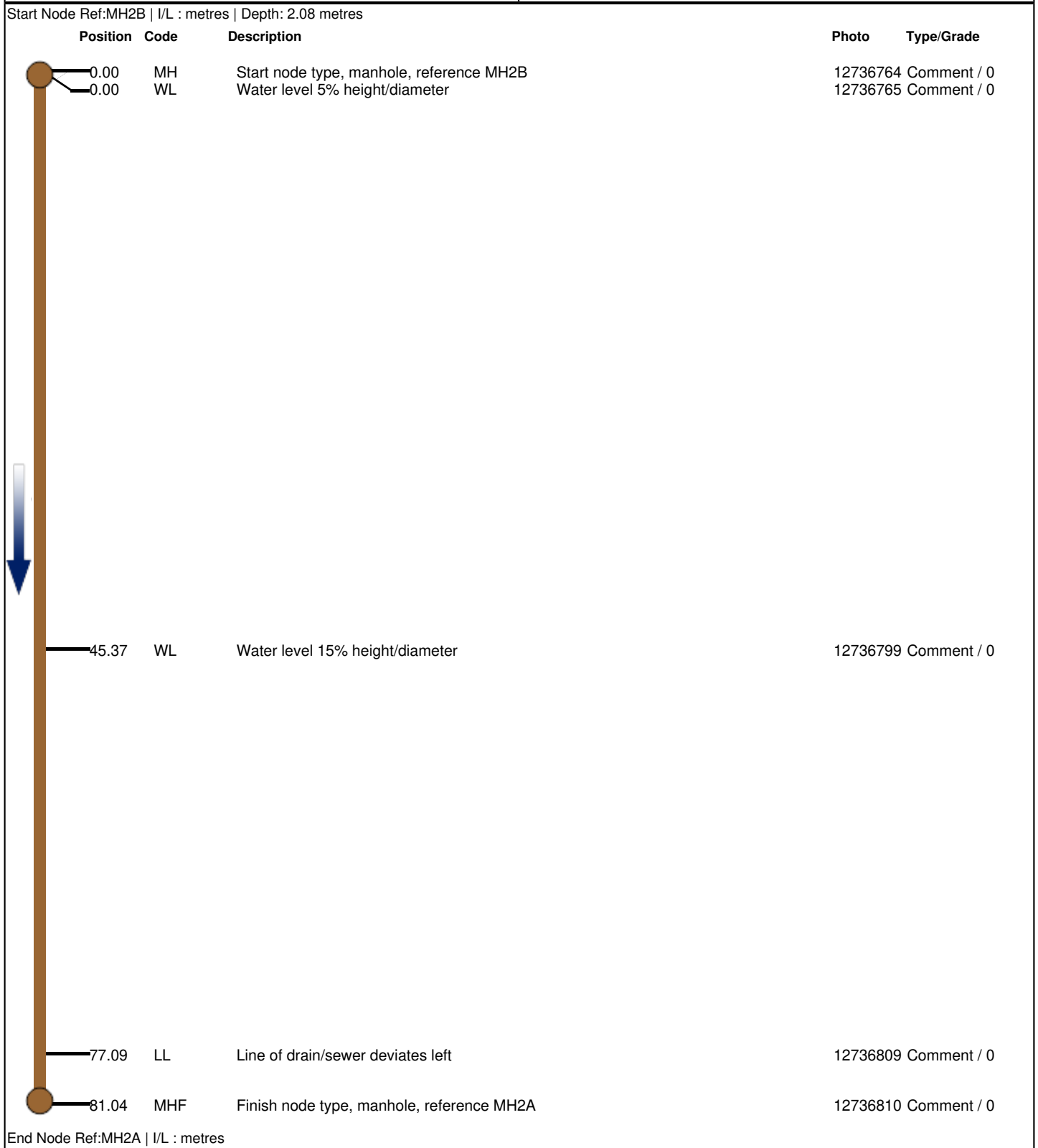
Job Number S26205	Surveyed by (Operator) JOE COLLINS	Base Unit LSDUKESDT	Date 30/07/2025
 Start node type, manhole, reference MH1		 Water level 5% height/diameter	
From: MH1 / To: MH2C Size: 950mm  Finish node type, manhole, reference MH2C			



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Surveyed by (Operator) JOE COLLINS	Job Number S26205	Pipe Length Reference(PLR) MH2B X	Date 30/07/2025	Pre Cleaned Not Cleaned
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit LSDUKESDT	Section Number 6
Road HAWTHORN LANE Place Location		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 950mm Material Polyvinyl chloride Category		Start Node MH2B End Node MH2A Total length 81.04 metres	
Scale 1:4.25 Direction Downstream		View via iTouch Live  Download 		



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Job Number S26205	Surveyed by (Operator) JOE COLLINS	Base Unit LSDUKESDT	Date 30/07/2025
 -1.88m Start node type, manhole, reference MH2B			
 -1.88m Water level 5% height/diameter			
From: MH2B / To: MH2A Size: 950mm  45.37m Water level 15% height/diameter			
From: MH2B / To: MH2A Size: 950mm  77.09m Line of drain/sewer deviates left			
From: MH2B / To: MH2A Size: 950mm  81.04m Finish node type, manhole, reference MH2A			

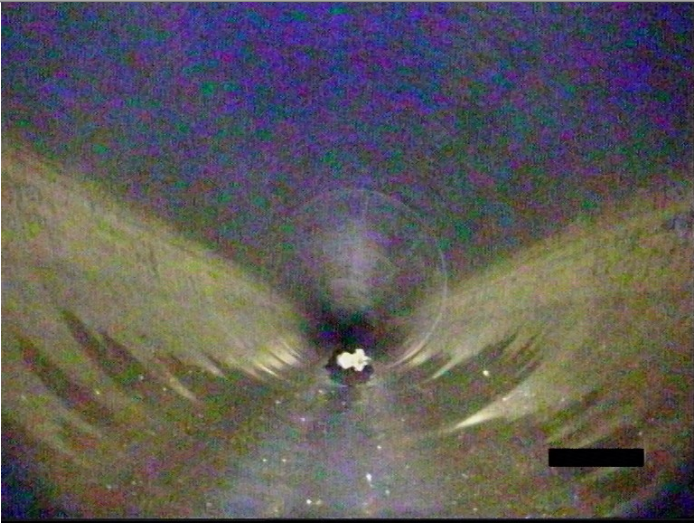
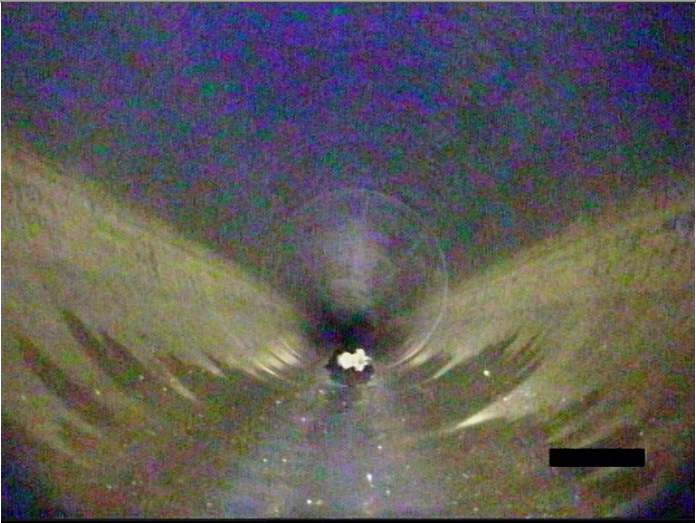


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Surveyed by (Operator) JOE COLLINS	Job Number S26205	Pipe Length Reference(PLR) MH2C X	Date 30/07/2025	Pre Cleaned Not Cleaned
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 3/0	Base Unit LSDUKESSDT	Section Number 7
Road HAWTHORN LANE Place Location		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 950mm Material Polyvinyl chloride Category		Start Node MH2C End Node MH2A Total length 80.4 metres	
Scale 1:4.22 Direction Downstream		View via iTouch Live Download		

Start Node Ref:MH2C I/L : metres Depth: 2.08 metres					Photo	Type/Grade
Position	Code	Description				
0.00	MH	Start node type, manhole, reference MH2C			12737050	Comment / 0
0.00	WL	Water level 5% height/diameter			12737051	Comment / 0
39.95	WL	Water level 15% height/diameter			12737074	Comment / 0
60.61	DER	Settled deposits coarse 10% cross-sectional area loss			12737103	Service / 3
80.40	MHF	Finish node type, manhole, reference MH2A			12737119	Comment / 0
End Node Ref:MH2A I/L : metres						

Job Number S26205	Surveyed by (Operator) JOE COLLINS	Base Unit LSDUKESDT	Date 30/07/2025
 Start node type, manhole, reference MH2C		 Water level 5% height/diameter	
From: MH2C / To: MH2A Size: 950mm  39.95m Water level 15% height/diameter		From: MH2C / To: MH2A Size: 950mm  60.61m Settled deposits coarse 10% cross-sectional area loss	
From: MH2C / To: MH2A Size: 950mm  80.40m Finish node type, manhole, reference MH2A			



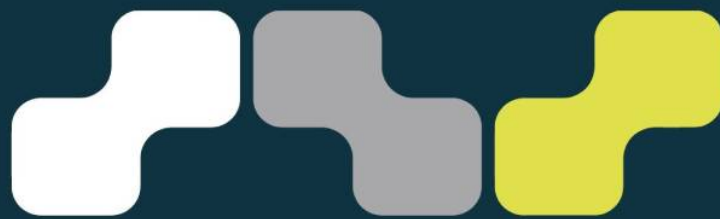
Structural Defects (SRM 4)

Job Number S26205				Surveyed by (Operator) JOE COLLINS		Base Unit LSDUKESDT			Date 29/05/2025				
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	UU2901 X	D	C	0	29/05/2025	Brick	9 metres	2.61		0	1	0	0
2	MH2 X	D	S	1500	30/07/2025	Brick	150 metres	140.83		0	1	0	0
3	MH2A X	U	S	1500	30/07/2025	Brick	102.92 metres	102.92		0	1	0	0
4	MH1 X	D	S	950	30/07/2025	Polyvinyl chloride	84.77 metres	84.77		0	1	0	0
5	MH1 X	D	S	950	30/07/2025	Polyvinyl chloride	85.84 metres	85.84		0	1	0	0
6	MH2B X	D	S	950	30/07/2025	Polyvinyl chloride	81.04 metres	81.04		0	1	0	0
7	MH2C X	D	S	950	30/07/2025	Polyvinyl chloride	80.4 metres	80.4		0	1	0	0



Service Defects (SRM 4)

Job Number S26205				Surveyed by (Operator) JOE COLLINS			Base Unit LSDUKESDT			Date 29/05/2025			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	UU2901 X	D	C	0	29/05/2025	Brick	9 metres	2.61		0	1	0	0
2	MH2 X	D	S	1500	30/07/2025	Brick	150 metres	140.83		10	5	0.10	14
3	MH2A X	U	S	1500	30/07/2025	Brick	102.92 metres	102.92		0	1	0	0
4	MH1 X	D	S	950	30/07/2025	Polyvinyl chloride	84.77 metres	84.77		0	1	0	0
5	MH1 X	D	S	950	30/07/2025	Polyvinyl chloride	85.84 metres	85.84		0	1	0	0
6	MH2B X	D	S	950	30/07/2025	Polyvinyl chloride	81.04 metres	81.04		0	1	0	0
7	MH2C X	D	S	950	30/07/2025	Polyvinyl chloride	80.4 metres	80.4		2	3	0.02	2



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