



Project

Project Name: 19-06-11790 Elmtree Contracts Ltd 5 Ravensdeane
Huddersfield
Project Date: 19/06/2019
Project Standard: MSCC4 Sewers & Drainage GB (SRM4 Scoring)

ELMTREE
contracts

Property Repair Specialists

Call: 0845 634 2147



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19-06-11790 Elmtree Contracts Ltd 5 Ravensdeane Huddersfield		19/06/2019

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Scoring Summary

Project Name
19-06-11790 Elmtree Contracts Ltd 5 Ravensdeane Huddersfield

Project Number

Project Date
19/06/2019

Structural Defects

Section	PLR	Grade	Description
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All inspected pipes are in an acceptable structural condition (< grade 3).

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
1	MH 1X	3	Roots, mass at joint, 10% cross-sectional area loss
2	SVPX	3	Attached deposits, fouling from 10 o'clock to 2 o'clock, 10% cross-sectional area loss
3	RWGX	5	Roots, mass at joint, 40% cross-sectional area loss

Abandoned Surveys

Section	PLR	Description
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All inspections complete, none are abandoned.

Information

These scoring summaries are based on the SRM grading from the WRC.



Project Information

Project Name	Project Number	Project Date
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Client

Company: Elmtree Contracts Ltd
Street: Elmtree Lodge, 523 Bradford Road
Town or City: Chain Bar
Post Code: BD19 6BU

Site

Company: Elmtree Contracts Ltd
Street: 5 Ravensdeane, Thornhill Road
Town or City: Huddersfield
Post Code: HD3 3DD

Contractor

Company: Drain Doctor
Street: Stanley Norman House, Brinwell Road
Town or City: Blackpool
Email: reports@draindoctornw.co.uk



Project Information

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Project Notes

CCTV survey report & recommendations

The CCTV survey highlighted defects including cracks, displaced joints and roots in pipework. In order to rectify these defects, I would recommend that the following remedial works are carried out.

Remedial Works

Survey section 1 MH1 - DS

Remove roots with Warthog

Insert a 100mm x 600mm localised structural repair sleeve

Survey section 2 SVP - MH1

Remove all attached fouling deposits from pipework with a spinning nozzle

Survey section 3 RWG - MH1

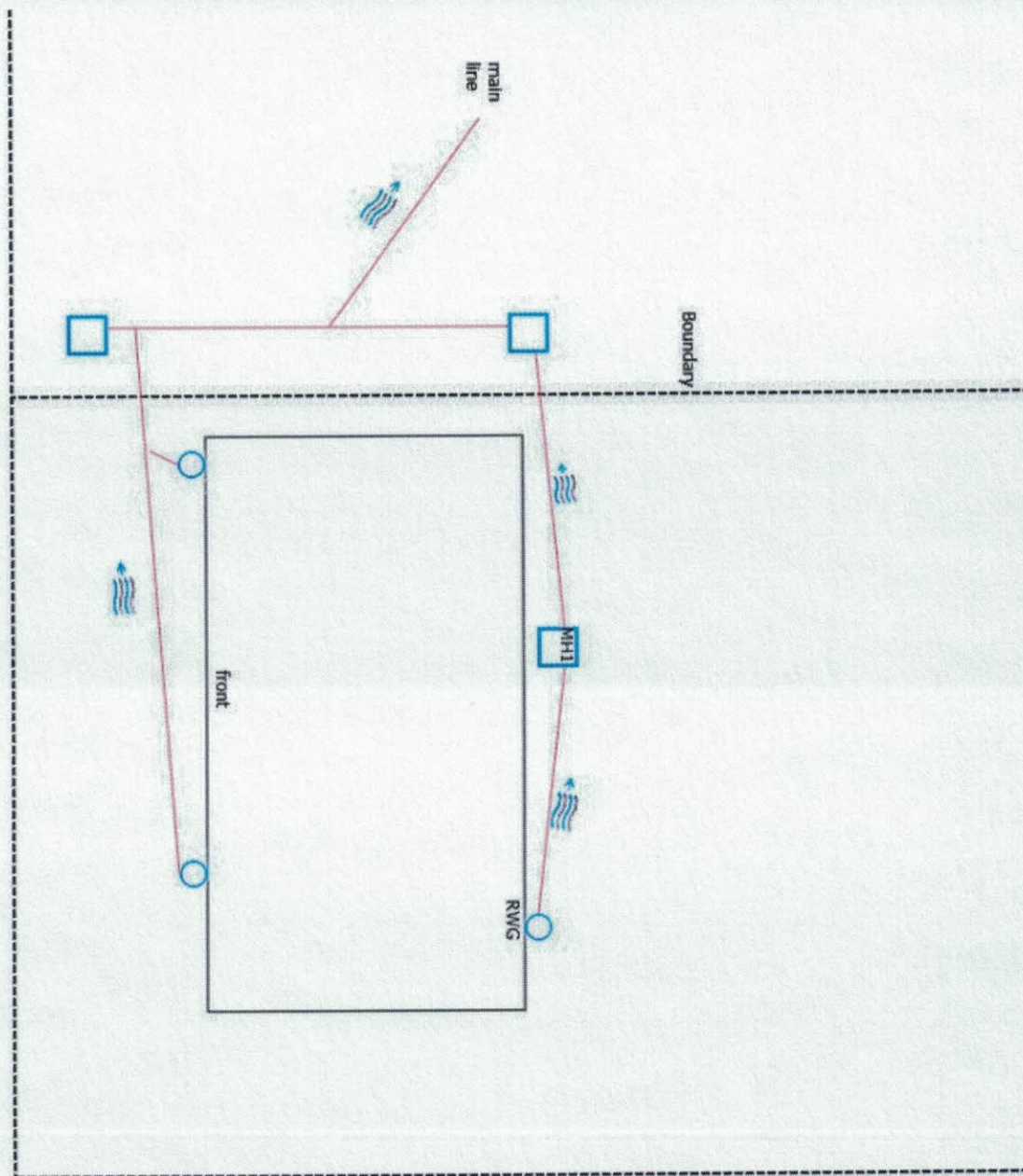
Remove all roots from pipework with a spinning nozzle

Reline drain with a 3mm Polyester structural sleeve

Project Information

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Project Drawing



Project Pictures

Project Name	Project Number	Project Date
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Front off building



Man hole 1 with roots

Section Inspection - 19/06/2019 - MH 1X

Section 1	Inspection 1	Date 19/06/19	Time 16:46	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Not Known	PLR MH 1X
Operator Not Specified	Vehicle Not Specified	Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		

Town or Village:	Huddersfield	Inspection Direction:	Downstream	Upstream Node:	MH 1
Road:	5 Ravensdeane	Inspected Length:	5.10 m	Upstream Pipe Depth:	0.500 m
Location:	Property with buildings	Total Length:	5.10 m	Downstream Node:	O BOUNDARY
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined		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:	Routine inspection of condition		Lining Material:	No Lining	
Comments:					
Recommendations:					

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.50 m MH 1						
0.00		MH	Start node type, manhole, reference number: MH 1	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension: flowing	00:00:01		
2.30		S01	CUW	Loss of vision, camera under water, start	00:00:32	
2.50		RMJ	Roots, mass at joint, 10% cross-sectional area loss	00:01:19		3
5.00		F01	CUW	Loss of vision, camera under water, finish	00:00:43	
5.10		OCF	Finish node type, other special chamber, reference number: O Boundary	00:00:43		
O Boundary Depth: m						

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	4.0	0.8	4.0	3.0

Section Pictures - 19/06/2019 - MH 1X

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH 1X		



, 00:01:19, 2.50 m
Roots, mass at joint, 10% cross-sectional area loss

Section Inspection - 19/06/2019 - SVPX

Section 2	Inspection 2	Date 19/06/19	Time 16:51	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Not Known	PLR SVPX
Operator Not Specified	Vehicle Not Specified	Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		

Town or Village:	Huddersfield	Inspection Direction:	Upstream	Upstream Node:	SVP
Road:	5 Ravensdeane	Inspected Length:	1.20 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	1.20 m	Downstream Node:	MH 1
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.500 m
Use:	Combined	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:	Routine inspection of condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.50 m						
MH 1						
	0.00	MH	Start node type, manhole, reference number: MH 1	00:00:00		
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
	0.01	JDM	Joint displaced, medium	00:00:13		1
	0.20	DEF	Attached deposits, fouling from 10 o'clock to 2 o'clock, 10% cross-sectional area loss	00:00:14		3
SVP	1.20	OCF	Finish node type, other special chamber, reference number: SVP	00:00:26		
Depth: m						

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.8	1.0	1.0	1	2.0	1.7	2.0	3.0

Section Pictures - 19/06/2019 - SVPX

Section 2	Inspection Direction Upstream	PLR SVPX	Client's Job Ref	Contractor's Job Ref
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, 00:00:13, 0.01 m
Joint displaced, medium



, 00:00:14, 0.20 m
Attached deposits, fouling from 10 o'clock to 2 o'clock, 10%
cross-sectional area loss



Section Inspection - 19/06/2019 - RWGX

Section 3	Inspection 3	Date 19/06/19	Time 16:53	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Not Known	PLR RWGX
Operator Not Specified	Vehicle Not Specified	Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified		

Town or Village:	Huddersfield	Inspection Direction:	Upstream	Upstream Node:	RWG
Road:	5 Ravensdeane	Inspected Length:	2.80 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	2.90 m	Downstream Node:	MH 1
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.500 m
Use:	Combined	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:	Routine inspection of condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 0.50 m						
MH 1						
	0.00	MH	Start node type, manhole, reference number: MH 1	00:00:00		
	0.00	WL	Water level, 15% of the vertical dimension	00:00:01		
	0.70	RTJ	Roots, tap at joint	00:01:13		4
	2.40	RTJ	Roots, tap at joint	00:00:53		4
	2.70	RMJ	Roots, mass at joint, 40% cross-sectional area loss	00:00:44		5
	2.80	OCF	Finish node type, other special chamber, reference number: RWG	00:00:40		
RWG						
Depth: m						

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	10.0	6.9	20.0	5.0

Section Pictures - 19/06/2019 - RWGX

Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	RWGX		



, 00:01:13, 0.70 m
Roots, tap at joint



, 00:00:53, 2.40 m
Roots, tap at joint



, 00:00:44, 2.70 m
Roots, mass at joint, 40% cross-sectional area loss

Standard Notes and Conditions

Thank you for choosing to Drain Doctor 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 Manual of Sewer Condition Classification (4th Ed, WRc, 2004), the Sewer Rehabilitation Manual (WRc) and BS EN13508:2.

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, Drain Doctor 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. Drain Doctor are happy to carry out such surveys, but this must be agreed prior to the commencement of the works, and a the client must specify the data they wish to capture and the acceptable tolerances.

Survey meterage is used as a guide for the issuing of a report only and should not be used as an accurate distance for excavation.

If an excavation is needed the defect should be pinpointed using a sonde.