

Drainage Report



Prepared For

Total Defects for Project



Total DRB Grades for Project



Site

Double M Management Services Ltd

**East Lane Business Park
 Wembley**

**32 Westwood Park Industrial Estate
 Park Royal
 London
 W3 0TH**



PRO-DRAIN LTD

Surveyor:

info@prodrain.co.uk

02088191561

Total Defects for Project

Total DRB Grades for Project



32 Westwood Park - CCTV Survey Report : 19-03-24

Name :	PRO-DRAIN LTD
Contact :	Darren Vaughan
Location :	UK
Town :	Wembley
Region :	Middlesex
Postcode :	HA9 7FP
Email :	info@prodrain.co.uk
Contact Number :	02088191561
Surveyor :	
Valid Certification No :	

Client Information

Name :	Double M Management Services Ltd
Contact :	
Location :	
Town :	East Lane Business Park
Region :	Wembley
Postcode :	HA9 7NG
Tel :	
Mobile :	
Email :	
Fax :	

Site Information

Name :	
Contact :	
Location :	32 Westwood Park Industrial Estate
Town :	Park Royal
Region :	London
Postcode :	W3 0TH
Tel :	
Mobile :	
Email :	
Fax :	

Total Defects for Project



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Report interpretation.

Overview:

Each section of the drainage system is allocated a score indicating areas that require attention. These areas are detailed in the Overview section on the following page and also at the bottom right of the first few pages. We use colour coding as an indicator of severity. Additional information concerning rehabilitation options/recomendations is included in the Overview page, which can also be used as an, "at a glance" indication of system condition. More in depth information for each section, Including images can be found later in the report. Grade indicators are as follows:

Grade A: Drain is serviceable no recommendations required

Grade B: There is an issue that might require remedial works

Grade C: There is a defect that requires remedial works, the drain is not serviceable.

Observations:

Each section of drainage reported on (manhole to manhole for example), contains detailed information about that drain and any observations made concerning condition are detailed below the header section. The observations are colour coded and given a severity score, with more significant defects being given a higher score, using a scale from 1 to 5 as detailed below:

Severity 1 to 2: These defects may require remedial monitoring

Severity 3: These defects probably require some form of remedial works

Severity 4 to 5: Defects that will require remedial repair or replacement

General:

The information provided is relevant at the time of survey. The coding system in this report is based on the Manual of Sewer Condition Classification, 5th edition (MSCC5) domestic codes (BS EN 13508-1:2003). This is the official standard for the water industry.

The severity system is based on significant experience in general practice and the 1 -5 grades represent the severity of individual defects: 5 representing a more serious defect.

Please feel free to contact us for further explanation or pricing for remedial works required.

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Overview

<p>Section: 1 From: FWMH1 B1 To: RWP</p> <p>MH</p>	<p>Recommendations N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Polyvinyl Chloride Use: Surface Water</p>
<p>Section: 2 From: FWMH1 B2BD To: Back Drop</p> <p>MH</p>	<p>Recommendations N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul</p>
<p>Section: 3 From: FWMH1 B2 To: WC</p> <p>MH</p>	<p>Recommendations N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul</p>
<p>Section: 4 From: FWMH1 B3BD To: Back Drop</p> <p>MH</p>	<p>Recommendations CCTV monitored high pressure water jetting scale build up removal</p>	<p>DRB Grade: B Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul</p>
<p>Section: 5 From: FWMH1 B3 To: Urinal</p> <p>MH</p>	<p>Recommendations CCTV monitored high pressure water jetting scale build up removal.</p>	<p>DRB Grade: B Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul</p>
<p>Section: 6 From: FWMH1 B4BD To: Back Drop</p> <p>MH</p>	<p>Recommendations N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul</p>

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Section: 7 From: FWMH1 B4 To: WC MH	Recommendations Installation of a 300mm in length 100mm diameter patch lining.	DRB Grade: B Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 8 From: FWMH1 B5BD To: Back Drop MH	Recommendations N/A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 9 From: FWMH1 B5 To: WC MH	Recommendations Installation of a 300mm in length 100mm diameter patch lining	DRB Grade: B Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 10 From: FWMH1 B6BD To: Back Drop MH	Recommendations N/A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 11 From: FWMH1 B6 To: Sink Waste MH	Recommendations Installation of a 300mm in length 100mm diameter patch lining	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 12 From: FWMH1 B7BD To: Back Drop MH	Recommendations Installation of a 300mm in length 100mm diameter patch lining	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 13 From: FWMH1 B7 To: WC MH	Recommendations N/A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul

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<p>Section: 14 From: FWMH1 To: Sewer</p> <p>MH</p>	<p>Recommendations</p> <p>Urgent installation of a 15 meter 100mm resin impregnated drain lining.</p> <p>Investigation to locate the end node of this drain run and CCTV monitored high pressure water jetting settled deposit removal.</p>	<p>DRB Grade: C Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul</p>
<p>Section: 15 From: RWP1 To: Jct RWP2</p> <p>OC</p>	<p>Recommendations</p> <p>N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Pitch fibre Use: Surface Water</p>
<p>Section: 16 From: RWP2 To: Jct RWP3</p> <p>OC</p>	<p>Recommendations</p> <p>N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Pitch fibre Use: Surface Water</p>
<p>Section: 17 From: RWP3 To: SWMH1</p> <p>OC</p>	<p>Recommendations</p> <p>N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Pitch fibre Use: Surface Water</p>
<p>Section: 18 From: SWMH1 B1 To: SWG</p> <p>MH</p>	<p>Recommendations</p> <p>N/A</p>	<p>DRB Grade: A Pipe Size: 100 Material: Pitch fibre Use: Surface Water</p>
<p>Section: 19 From: SWMH1 To: Off Property</p> <p>MH</p>	<p>Recommendations</p> <p>CCTV monitored high pressure water jetting settled deposits removal.</p>	<p>DRB Grade: B Pipe Size: 100 Material: Pitch fibre Use: Surface Water</p>

Total Defects for Project

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Site: 32 Westwood Park Industrial Estate, Park Royal

Section 1

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B1 0.85	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	RWP 0.00	Direction: Use: Material:	U S PVC	Height/Dia: Shape: Cleaned	100 R N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	1.18	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole		0_0		
00.00m	WL	Water level 0%		0_1	0:00:00	
00.00m	REM	General remark				
01.07m	LUH	Line of drain/sewer deviates up [half]		0_3	0:00:16	
01.18m	OCF	Finish node type, other special chamber		0_99		

Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 1


Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B1	Image Provided - Ref: 0_0 
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 0_1 
00.00m		REM	General remark Diameter of drain is 50mm	
01.07m	0:00:16	LUH	Line of drain/sewer deviates up [half]	Image Provided - Ref: 0_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
01.18m		OCF	Finish node type, other special chamber RWP	Image Provided - Ref: 0_9999 

Total Defects for section

DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 2

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B2BD 0.86	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Back Drop 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	0.71	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%		1_1	0:00:00
00.23m	LUF	Line of drain/sewer deviates up [full]		1_2	0:00:05
00.71m	OCF	Finish node type, other special chamber		1_99	




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 2

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B1BD	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 1_1 
00.23m	0:00:05	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 1_2 
00.71m		OCF	Finish node type, other special chamber WC	Image Provided - Ref: 1_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 3

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B2 0.85	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	WC 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	2.37	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%		2_1	0:00:00	
00.12m	REM	General remark		2_2	0:00:08	
01.90m	LUF	Line of drain/sewer deviates up [full]		2_3	0:00:23	
02.37m	OCF	Finish node type, other special chamber		2_99		




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 3


Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B2	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 2_1 
00.12m	0:00:08	REM	General remark Back Drop	Image Provided - Ref: 2_2 
01.90m	0:00:23	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 2_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
02.37m		OCF	Finish node type, other special chamber WC	Image Provided - Ref: 2_9999 

Total Defects for section

DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 4

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B3BD 0.86	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Back Drop 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	0.24	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%		3_1	0:00:00	
00.00m	DEE	Attached deposits, encrustation 05-07 10%		3_2	0:00:00	
00.12m	LUF	Line of drain/sewer deviates up [full]		3_3	0:00:07	
00.12m	DEE	Attached deposits, encrustation 03-09 20%		3_4	0:00:07	
00.24m	SA	Survey abandoned				

Total Defects for section



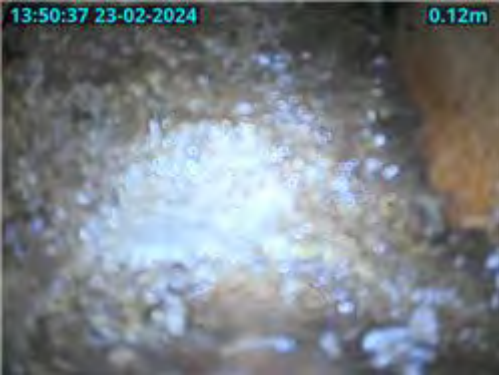


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 4

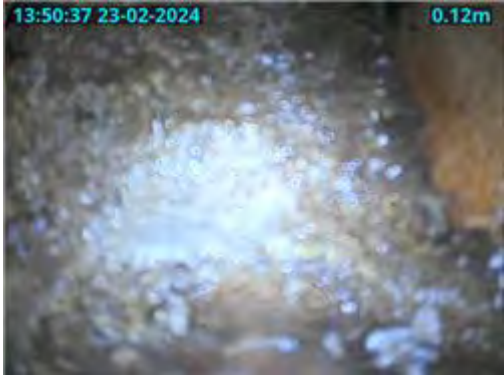
Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B3BD	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 3_1 
00.00m	0:00:00	DEE	Attached deposits, encrustation from 05 o'clock to 07 o'clock: 10% Cross sectional area loss - Severity 3 Scale build up	Image Provided - Ref: 3_2 
00.12m	0:00:07	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 3_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
00.12m	0:00:07	DEE	Attached deposits, encrustation from 03 o'clock to 09 o'clock: 20% Cross sectional area loss - Severity 3 Scale build up	Image Provided - Ref: 3_4 
00.24m		SA	Survey abandoned Back Drop	

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 5

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B3 0.85	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Urinal 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	5.34	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%		4_1	0:00:00	
00.20m	REM	General remark		4_2	0:00:10	
00.20m	DEE	S1 Attached deposits, encrustation 05-09 20%	S1	4_3	0:00:10	
04.50m	DEE	C1 Attached deposits, encrustation 03-09 50%	C1	4_4	0:00:43	
04.85m	LUF	Line of drain/sewer deviates up [full]		4_5	0:00:47	
05.33m	DEE	F1 Attached deposits, encrustation 03-09 50%	F1	4_-3	0:00:10	
05.34m	OCF	Finish node type, other special chamber		4_99		

Total Defects for section



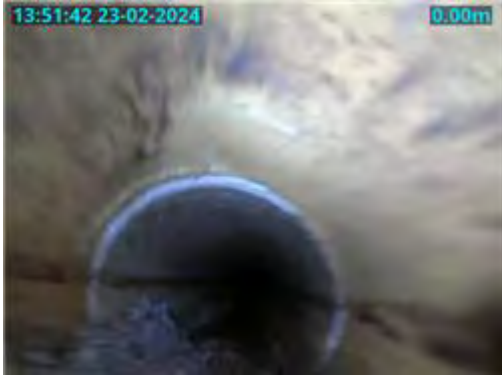


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 5




Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B3	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 4_1 
00.20m	0:00:10	REM	General remark Back Drop	Image Provided - Ref: 4_2 
00.20m	0:00:10	S1 DEE	Attached deposits, encrustation 0.2m - 5.33m from 05 o'clock to 09 o'clock: 20% Cross sectional area loss - Severity 3 Scale build up	Image Provided - Ref: 4_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
04.50m	0:00:43	C1 DEE	Attached deposits, encrustation from 03 o'clock to 09 o'clock: 50% Cross sectional area loss - Severity 3	Image Provided - Ref: 4_4 
04.85m	0:00:47	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 4_5 
05.33m	0:00:10	F1 DEE	Attached deposits, encrustation Defect End from 03 o'clock to 09 o'clock: 50% Cross sectional area loss - Severity 3 Scale build up	
05.34m		OCF	Finish node type, other special chamber Urinal	Image Provided - Ref: 4_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 6

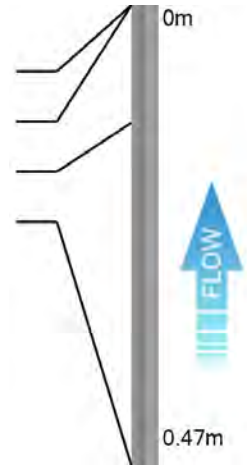
Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B4BD 0.86	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Back Drop 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	0.47	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%		5_1	0:00:00
00.12m	LUF	Line of drain/sewer deviates up [full]		5_2	0:00:06
00.47m	OCF	Finish node type, other special chamber		5_99	




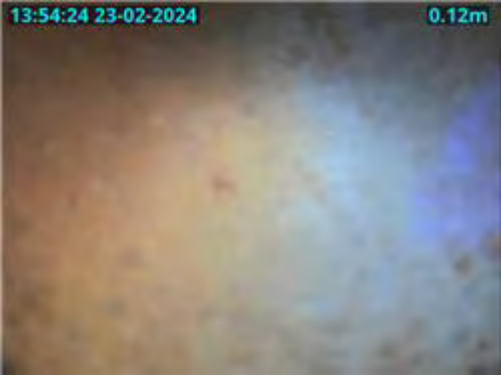

Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 6

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B4BD	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 5_1 
00.12m	0:00:06	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 5_2 
00.47m		OCF	Finish node type, other special chamber Back Drop	Image Provided - Ref: 5_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 7

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B4 0.85	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	WC 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	2.4	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%		6_1	0:00:00	
00.11m	REM	General remark			0:00:06	
01.77m	OJM	Open joint medium		6_3	0:00:17	
01.78m	LUF	Line of drain/sewer deviates up [full]		6_4	0:00:18	
02.40m	OCF	Finish node type, other special chamber		6_99		

Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 7


Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B4	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 6_1 
00.11m	0:00:06	REM	General remark Back Drop	
01.77m	0:00:17	OJM	Open joint medium - Severity 3	Image Provided - Ref: 6_3 
01.78m	0:00:18	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 6_4 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
02.40m		OCF	Finish node type, other special chamber WC	Image Provided - Ref: 6_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 8

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B5BD 0.86	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Back Drop 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	0.47	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%		7_1	0:00:00	
00.12m	LUF	Line of drain/sewer deviates up [full]		7_2	0:00:06	
00.47m	OCF	Finish node type, other special chamber		7_99		




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 8

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B5BD	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 7_1 
00.12m	0:00:06	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 7_2 
00.47m		OCF	Finish node type, other special chamber Back Drop	Image Provided - Ref: 7_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 9

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B5 0.85	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	WC 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	2.13	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%		8_1	0:00:00	
00.24m	REM	General remark		8_2	0:00:07	
01.54m	OJM	Open joint medium		8_3	0:00:25	
01.66m	LUF	Line of drain/sewer deviates up [full]		8_4	0:00:26	
02.13m	OCF	Finish node type, other special chamber		8_99		

Total Defects for section






DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 9



Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B5	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 8_1 
00.24m	0:00:07	REM	General remark Back Drop	Image Provided - Ref: 8_2 
01.54m	0:00:25	OJM	Open joint medium - Severity 3	Image Provided - Ref: 8_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
01.66m	0:00:26	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 8_4 
02.13m		OCF	Finish node type, other special chamber WC	Image Provided - Ref: 8_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 10

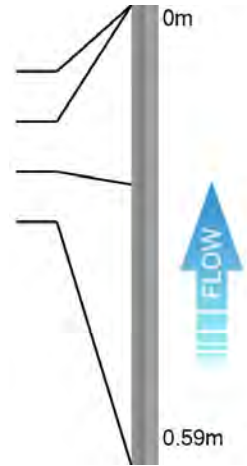
Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B6BD 0.86	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Back Drop 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	0.59	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%		9_1	0:00:00
00.23m	LUF	Line of drain/sewer deviates up [full]		9_2	0:00:11
00.59m	OCF	Finish node type, other special chamber		9_99	




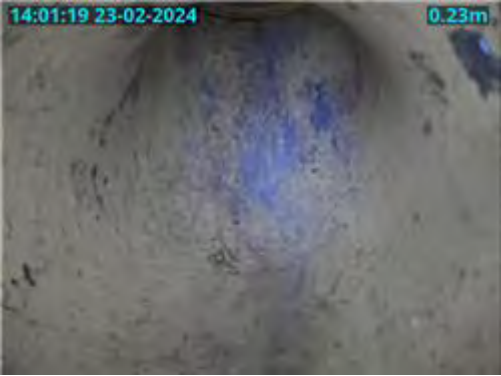

Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 10

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B6BD	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 9_1 
00.23m	0:00:11	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 9_2 
00.59m		OCF	Finish node type, other special chamber Back Drop	Image Provided - Ref: 9_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 11

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B6 0.85	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Sink Waste 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	4.85	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%		10_1	0:00:00
00.11m	REM	General remark		10_2	0:00:05
01.06m	CCJ	Crack, circumferential 02-05 at joint		10_3	0:00:14
04.37m	LUF	Line of drain/sewer deviates up [full]		10_4	0:00:33
04.85m	OCF	Finish node type, other special chamber		10_9	

Total Defects for section






DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 11



Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B6	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 10_1 
00.11m	0:00:05	REM	General remark Back Drop	Image Provided - Ref: 10_2 
01.06m	0:00:14	CCJ	Crack, circumferential from 02 o'clock to 05 o'clock at joint - Severity 1	Image Provided - Ref: 10_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
04.37m	0:00:33	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 10_4 
04.85m		OCF	Finish node type, other special chamber Sink Waste	Image Provided - Ref: 10_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 12

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B7BD 0.86	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Back Drop 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	1.18	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%		11_1	0:00:00
00.70m	CCJ	Crack, circumferential 12-03 at joint		11_2	0:00:05
00.83m	LUF	Line of drain/sewer deviates up [full]		11_3	0:00:06
01.18m	OCF	Finish node type, other special chamber		11_9	

Total Defects for section






DRB Grade for Section

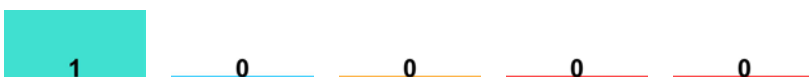


Descriptive Report with Remarks and Observation Images

Section 12


Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B7BD	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 11_1 
00.70m	0:00:05	CCJ	Crack, circumferential from 12 o'clock to 03 o'clock at joint - Severity 1	Image Provided - Ref: 11_2 
00.83m	0:00:06	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 11_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
01.18m		OCF	Finish node type, other special chamber Back Drop	Image Provided - Ref: 11_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 13

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 B7 0.85	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	WC 0.00	Direction: Use: Material:	U F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	2.01	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%		12_1	0:00:00
00.33m	REM	General remark		12_2	0:00:25
01.42m	LUF	Line of drain/sewer deviates up [full]		12_3	0:00:51
02.01m	OCF	Finish node type, other special chamber		12_9	




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 13


Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1 B7	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 12_1 
00.33m	0:00:25	REM	General remark Back Drop	Image Provided - Ref: 12_2 
01.42m	0:00:51	LUF	Line of drain/sewer deviates up [full]	Image Provided - Ref: 12_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
02.01m		OCF	Finish node type, other special chamber WC	Image Provided - Ref: 12_9999 

Total Defects for section

DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 14

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	FWMH1 0.87	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Sewer 0.00	Direction: Use: Material:	D F VC	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	37.08	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	MH	Start node type, manhole				
00.00m	WL	Water level 0%		13_1	0:00:00	
00.80m	B	Broken pipe 12-12			0:00:09	
01.30m	H	Hole in drain/sewer 12-03		13_4	0:00:20	
12.90m	H	Hole in drain/sewer 10-12		13_5	0:01:08	
14.20m	CM	Cracks, multiple 06-12			0:01:21	
14.20m	H	Hole in drain/sewer 11-01		13_7	0:01:21	
14.20m	R	Roots			0:01:21	
29.50m	DER	Settled deposits coarse 30%		13_9	0:02:28	
34.36m	DER	Settled deposits coarse 30%		13_1	0:02:58	
35.80m	WL	S1 Water level 40%	S1	13_1	0:03:17	
35.96m	LRH	Line of drain/sewer deviates right [half]		13_1	0:03:24	
37.07m	WL	F1 Water level 40%	F1	13_-	0:03:17	
37.08m	SA	Survey abandoned		13_9		




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images


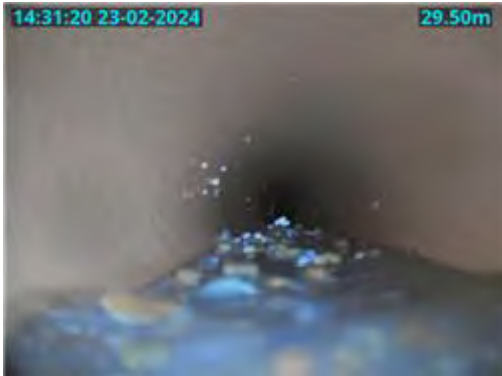
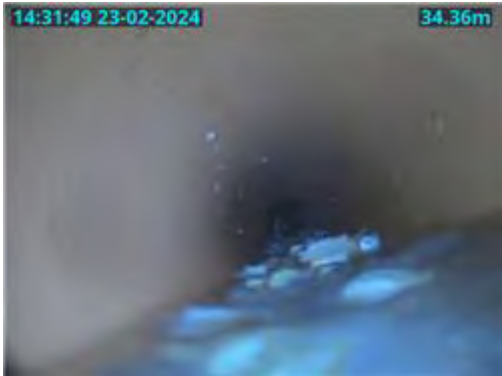
Section 14

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole FWMH1	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 13_1 
00.80m	0:00:09	B	Broken pipe from 12 o'clock to 12 o'clock - Severity 4	
01.30m	0:00:20	H	Hole in drain/sewer from 12 o'clock to 03 o'clock - Severity 4	Image Provided - Ref: 13_4 
12.90m	0:01:08	H	Hole in drain/sewer from 10 o'clock to 12 o'clock - Severity 4	Image Provided - Ref: 13_5 
14.20m	0:01:21	CM	Cracks, multiple from 06 o'clock to 12 o'clock - Severity 2	

Total Defects for section

DRB Grade for Section



Pos	Video Ref	Code	Description	Image
14.20m	0:01:21	H	Hole in drain/sewer from 11 o'clock to 01 o'clock - Severity 4	Image Provided - Ref: 13_7 
14.20m	0:01:21	R	Roots - Severity 3	
29.50m	0:02:28	DER	Settled deposits coarse: 30% Cross sectional area loss - Severity 3 Pea shingle	Image Provided - Ref: 13_9 
34.36m	0:02:58	DER	Settled deposits coarse: 30% Cross sectional area loss - Severity 3 Pea shingle	Image Provided - Ref: 13_10 

Total Defects for section

DRB Grade for Section



Pos	Video Ref	Code	Description	Image
35.80m	0:03:17	S1 WL	Water level 35.8m - 37.07m: 40% Height/Diameter	Image Provided - Ref: 13_11 
35.96m	0:03:24	LRH	Line of drain/sewer deviates right [half]	Image Provided - Ref: 13_12 
37.07m	0:03:17	F1 WL	Water level Defect End: 40% Height/Diameter	
37.08m		SA	Survey abandoned Camera Underwater	Image Provided - Ref: 13_9999 

Total Defects for section

DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 15

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	RWP1 0.00	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Jct RWP2 0.00	Direction: Use: Material:	D S PF	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
OC	Good ✔			

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	12.78	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	OC	Start node type, other special chamber		14_0		
00.00m	WL	Water level 0%		14_1	0:00:00	
00.00m	LDF	Line of drain/sewer deviates down [full]			0:00:00	
00.10m	REM	General remark		14_3	0:00:03	
01.66m	LLF	Line of drain/sewer deviates left [full]		14_4	0:00:14	
02.49m	LLF	Line of drain/sewer deviates left [full]		14_5	0:00:18	
12.78m	BRF	Finish node type, major connection without		14_9		




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 15




Pos	Video Ref	Code	Description	Image
00.00m		OC	Start node type, other special chamber RWP1	Image Provided - Ref: 14_0 
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 14_1 
00.00m	0:00:00	LDF	Line of drain/sewer deviates down [full]	
00.10m	0:00:03	REM	General remark Rest Bend	Image Provided - Ref: 14_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
01.66m	0:00:14	LLF	Line of drain/sewer deviates left [full]	Image Provided - Ref: 14_4 
02.49m	0:00:18	LLF	Line of drain/sewer deviates left [full]	Image Provided - Ref: 14_5 
12.78m		BRF	Finish node type, major connection without manhole Jct RWP2	Image Provided - Ref: 14_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 16

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	RWP2 0.00	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	Jct RWP3 0.00	Direction: Use: Material:	D S PF	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
OC	Good ✔			

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	10.89	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	OC	Start node type, other special chamber		15_0		
00.00m	WL	Water level 0%		15_1	0:00:00	
00.00m	LDF	Line of drain/sewer deviates down [full]			0:00:00	
00.00m	REM	General remark		15_3	0:00:04	
01.07m	LLH	Line of drain/sewer deviates left [half]		15_4	0:00:11	
02.72m	LLH	Line of drain/sewer deviates left [half]		15_5	0:00:19	
10.89m	BRF	Finish node type, major connection without		15_9		




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 16




Pos	Video Ref	Code	Description	Image
00.00m		OC	Start node type, other special chamber RWP2	Image Provided - Ref: 15_0 
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 15_1 
00.00m	0:00:00	LDF	Line of drain/sewer deviates down [full]	
00.00m	0:00:04	REM	General remark Rest Bend	Image Provided - Ref: 15_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
01.07m	0:00:11	LLH	Line of drain/sewer deviates left [half]	Image Provided - Ref: 15_4 
02.72m	0:00:19	LLH	Line of drain/sewer deviates left [half] Jct to main SW drain	Image Provided - Ref: 15_5 
10.89m		BRF	Finish node type, major connection without manhole Jct RWP3	Image Provided - Ref: 15_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 17

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: Start Node Depth: Start Node Coordinate:	RWP3 0.00	Finish Node Ref: Finish Node Depth: Finish Node Coordinate:	SWMH1 0.00	Direction: Use: Material:	D S PF	Height/Dia: Shape: Cleaned	100 C N
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Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
OC	Good ✔			

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	29.1	

Position	Code	Description	CD	Pic	Video Ref	
00.00m	OC	Start node type, other special chamber		16_0		
00.00m	WL	Water level 0%		16_1	0:00:00	
00.12m	REM	General remark		16_2	0:00:04	
00.95m	LLH	Line of drain/sewer deviates left [half]		16_3	0:00:14	
02.37m	LLH	Line of drain/sewer deviates left [half]		16_4	0:00:23	
11.70m	JN	Junction 02 : 100mm Diameter		16_5	0:01:14	
11.95m	JN	Junction 09 : 100mm Diameter		16_6	0:01:27	
29.10m	MHF	Finish node type, manhole		16_9		




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 17





Pos	Video Ref	Code	Description	Image
00.00m		OC	Start node type, other special chamber RWP3	Image Provided - Ref: 16_0 
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 16_1 
00.12m	0:00:04	REM	General remark Rest Bend	Image Provided - Ref: 16_2 

Total Defects for section



DRB Grade for Section




Pos	Video Ref	Code	Description	Image
00.95m	0:00:14	LLH	Line of drain/sewer deviates left [half]	Image Provided - Ref: 16_3 
02.37m	0:00:23	LLH	Line of drain/sewer deviates left [half] Jct to main SW drain	Image Provided - Ref: 16_4 
11.70m	0:01:14	JN	Junction at 02 o'clock: 100mm Diameter Serves Unconfirmed	Image Provided - Ref: 16_5 
11.95m	0:01:27	JN	Junction at 09 o'clock: 100mm Diameter Serves Channel Drain	Image Provided - Ref: 16_6 

Total Defects for section

DRB Grade for Section



Pos	Video Ref	Code	Description	Image
29.10m		MHF	Finish node type, manhole SWMH1	Image Provided - Ref: 16_9999 

Total Defects for section

DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 18

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: SWMH1 B1	Finish Node Ref: SWG	Direction: U	Height/Dia: 100
Start Node Depth: 0.86	Finish Node Depth: 0.00	Use: S	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PF	Cleaned N

Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	3.19	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole		17_0	
00.00m	WL	Water level 0%		17_1	0:00:00
03.19m	GYF	Finish node type Gully		17_9	




Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 18

Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole SWMH1 B1	Image Provided - Ref: 17_0 
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 17_1 
03.19m		GYF	Finish node type Gully SWG	Image Provided - Ref: 17_9999 

Total Defects for section



DRB Grade for Section



Site: 32 Westwood Park Industrial Estate, Park Royal

Section 19

Client: Double M Management Services Ltd	Location (Street Name): 32 Westwood Park Industrial Estate	City/Town/Village Park Royal	Cust Job Ref.	Surveyors Name:	Date: 19-03-2024
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Start Node Ref: SWMH1	Finish Node Ref: Off Property	Direction: D	Height/Dia: 100
Start Node Depth: 0.88	Finish Node Depth: 0.00	Use: S	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PF	Cleaned N

Node Type	Cover Condition	Benching Condition	1/2 Channel Condition	Node Condition Remarks
MH	Good ✓	Good ✓	Good ✓	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	General Remarks
A				D	N	7.93	

Position	Code	Description	CD	Pic	Video Ref
00.00m	MH	Start node type, manhole			
00.00m	WL	Water level 0%		18_1	0:00:00
00.24m	LRQ	Line of drain/sewer deviates right [quarter]		18_2	0:00:04
06.00m	DES	S1 Settled deposits fine 30%	S1	18_3	0:00:39
07.92m	DES	F1 Settled deposits fine 30%	F1	18_-	0:00:39
07.93m	SA	Survey abandoned		18_9	

Total Defects for section






DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 19


Pos	Video Ref	Code	Description	Image
00.00m		MH	Start node type, manhole SWMH1	
00.00m	0:00:00	WL	Water level: 0% Height/Diameter	Image Provided - Ref: 18_1 
00.24m	0:00:04	LRQ	Line of drain/sewer deviates right [quarter]	Image Provided - Ref: 18_2 
06.00m	0:00:39	S1 DES	Settled deposits fine 6m - 7.92m: 30% Cross sectional area loss - Severity 3	Image Provided - Ref: 18_3 
07.92m	0:00:39	F1 DES	Settled deposits fine Defect End: 30% Cross sectional area loss - Severity 3	

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Description	Image
07.93m		SA	Survey abandoned Camera underwater	Image Provided - Ref: 18_9999 

Total Defects for section



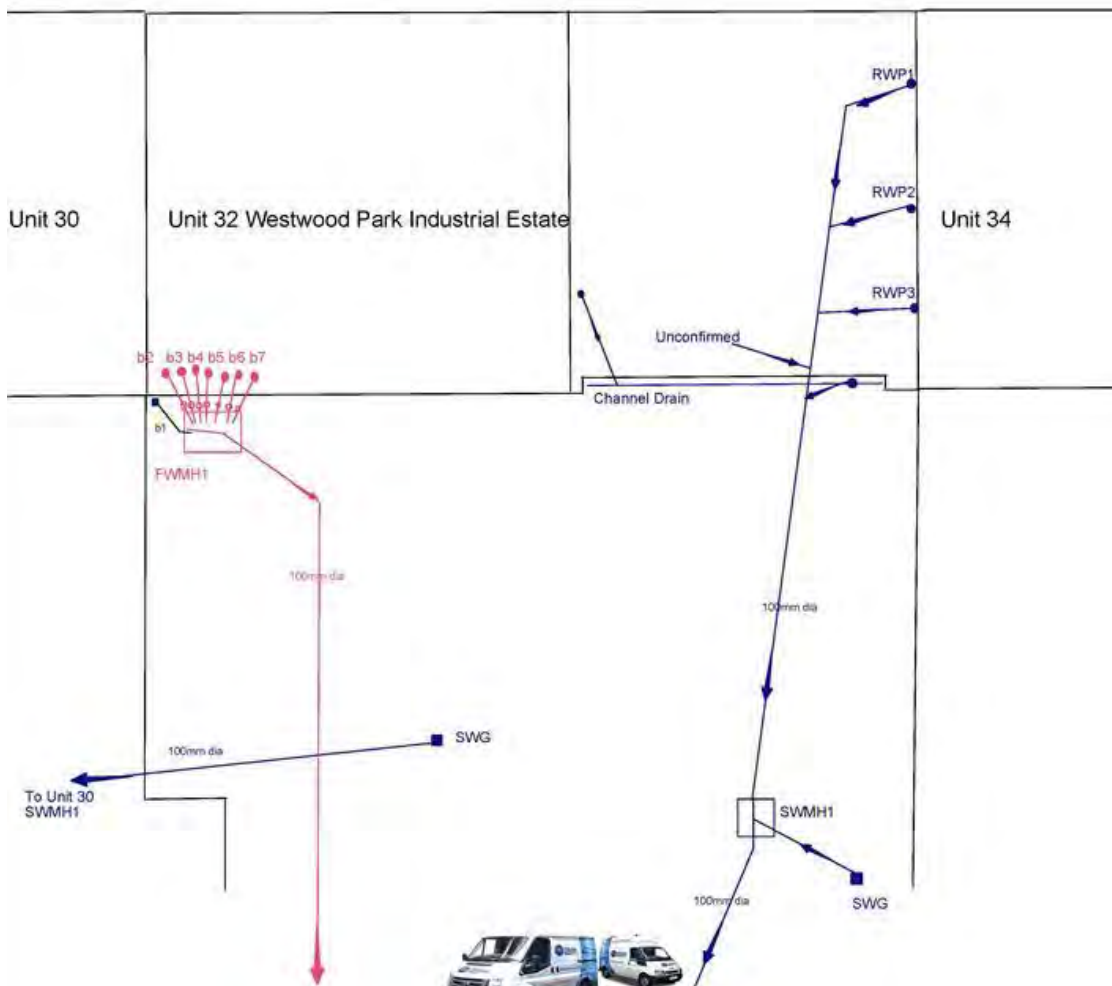
DRB Grade for Section



Plan of Site



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Total Defects for section

DRB Grade for Section






A guide to defects and other observations in drainage systems

More detailed information can be found in the National Standard (BS EN 13508-1:2003) and in the Manual of Sewer Condition Classification (MSCC) 5th Edition, written by the Water Research Centre (WRc).

Use	
Code	Description
C	Combined
F	Foul
S	Surface Water
T	Trade Effluent
W	Culverted Watercourse
Z	Other

Common Materials	
Code	Description
VC	Vitrified Clay
PVC	Polyvinyl Chloride
CO	Concrete
CI	Cast Iron
PF	Pitch Fibre
PE	Polyethylene
DI	Ductile Iron

Start Node	Description	Finish Node
MH	Manhole	MHF
IC	Inspection Chamber	ICF
GY	Gulley	GYF
RE	Rodding Eye	REF
SK	Soakaway	SKF
BN	Buchan Trap	BNF
BR	Major Connection without Ref	BRF
CP	Catch Pit	CPF
OC	Other Special Chamber	OCF
OF	Outfall	OFF
OS	Oil Separator	OSF
WR	Winser Trap	WRF
LH	Lamphole	LHF



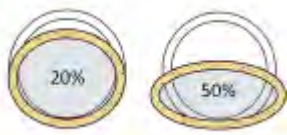







Code	Observation	Description	Attributes	
B	Broken	Pieces pipe have visibly moved	Defined by clock references. Associated with deformity in rigid pipe	
CC CL CM CR	Cracks	Cracks are break lines that are not visibly open	Defined by clock reference position/s. Longitudinal and radiating cracks attract only one clock reference	
CN	Connection	Lateral pipe has been connected after original construction	Described by clock reference position and diameter	

Total Defects for section



DRB Grade for Section













CX(I)	Defective Connection (Intruding)	Defective by intrusion or damage due to factors including: cracks, fractures, obstruction, position etc	Described by clock reference position and diameter (+ % intrusion)	
CU	Loss of Vision	Lens of camera is obscured by debris, water etc. Operator is unable to see drain clearly	'W' can be added if loss of vision is due to water	
D	Deformed	Pipe has lost its structure	Described by percentage loss of height or width. Recorded in 5% increments	
DEE	Deposits Encrustation	Eg. Attached scale deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
DEG	Deposits Grease	Attached grease deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
DER DES	Deposits Coarse/Fine	Settled deposits on the invert of the pipe.	Described by percentage loss of height or diameter. Recorded in 5% increments.	
FC FL FM FR	Fractures	Fractures are visibly open. Pieces of pipe have not moved	Defined by clock reference position/s. Longitudinal and radiating fractures attract only one clock reference	
H	Holes	Section of pipe fabric is missing	Defined by clock reference location. Normally two clock references	
I	Infiltration	Water is infiltrating the pipe, normally via a joint but could be via another defect	Can be described in Remarks using terms such as Seeper, Dripper and Runner	
JDL	Joint Displaced Large	Pipe has moved at joint, perpendicular to axis of pipe	More than 1.5 times the pipe wall thickness must be visible	

Total Defects for section

DRB Grade for Section









JDM	Joint Displaced Medium	Pipe has moved at joint, perpendicular to axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
JN	Junction	Lateral pipe was installed at construction	Described by clock reference position and diameter	
JX	Defective Junction	Lateral pipe was installed at construction but is defective in some way	Joint can be defective due to factors including: cracks, fractures, obstruction, position etc	
LD LU LL LR	Line Deviation	LD = Line Down, LU = Line Up, LL = Line Left, LR = Line Right. Not related to CIPP lining.	Additional modifiers are added: Q = Quarter (22.5), H = Half (45), F = Full (90). In degrees.	
LC	Lining Changes	If the drain is lined, the lining material has changed	Position of lining material change	
MC	Material Change	The pipe material has changed	Position of change is noted. Type of material change can be defined	
OB	Obstruction/Obstacle	An obstruction or obstacle is affecting the flow through the pipe	Described in percentage loss of cross-sectional area	
OJL	Open Joint Large	Pipe has moved at joint, along the axis of pipe	More than 1.5 times the pipe wall thickness must be visible	
OJM	Open Joint Medium	Pipe has moved at joint, along the axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
PC	Pipe Length Changes	Length of individual pipe changes	New length described at this position	

Total Defects for section

DRB Grade for Section



R	Roots	Evidence of root ingress	Roots will normally infiltrate via bad joints, cracks, fractures, breaks etc	
REM	Remark	General remark	Used for additional information	
S	Surface Damage	This might include corrosion, spalling and chemical attack	Position only. Additional information can be added in Remarks	
SA	Survey Abandoned	Used when a survey cannot continue for any reason	The reason for abandoning a survey should be noted in the remarks area	
SC	Shape Changes	Dimension of drain changes	Diameter dimension change recorded. Second dimension is recorded for no circular pipe changes	
SR	Sealing Ring	Sealing ring intrudes into pipe at joint	Described by clock reference position	
V	Vermin	Evidence of Vermin in pipe	Can also be used for evidence within manhole etc	
WL	Water Level	Used to record changes in water level. Always shown at the beginning of every survey, if dry noted as 00.	Described by percentage of height or diameter. Recorded in 5% increments	
XP	Collapsed	Drain is suffering from complete loss of structural integrity. Always followed by SA - Survey Abandoned	Percentage loss of cross-sectional area is recorded. Other related structural defects are not recorded	