







Astor College - CCTV Survey Report : 25/09/15

Name: KENT DRAINAGE LTD

Contact: Tom Coe

Location: Unit 1, 1 Stoney Lane

Town: Rochester

Region: Kent

Postcode: ME1 3QJ

Tel: 01622 919012

Mobile:

Email: info@kentdrainage.co.uk

Fax:

Client Information

Name: Galliford Try Construction LTD

Contact: Lauren Solomon

Location : Cowley Business Park

Town: Uxbridge
Region: Middlesex
Postcode: UB8 2AL

Tel:
Mobile:
Email:
Fax:

Site Information

Name: Astor College

Contact:

Location: 99 Charlotte Street

Town:

Region : London
Postcode : W1T 4QB

Tel : Mobile : Email :

Fax:

Total grades for project

Grade 1 Defects 0 Grade 2 Defects 5 Grade 3 Defects 0 Grade 4 Defects 0 Grade 5 Defects 0









Graded defect count per section

This section shows the number of graded defects per individual survey. A grade 5 defect being serious and indicating more urgent repair. Grade 3-4 defects are less serious and are less urgent concerning repair. Grade 1-2 defects are relatively minor and could be monitored and/or repaired if thought necessary.

Section: 1 Start: S1 End: S2 Road: 99 Charlotte Street

Length: 10.05 Use: Surface Water Depth: 1040 Place: London

From To Dia 00.00m - 00.23m 100	Material	G1 - 2	G3 - 4	G5	
00.00m - 00.23m	100	Vitrified Clay (i.e. all clayware)	0	0	0
00.23m - 10.05m	100	Unidentified type of plastic	0	0	0

Section: 2 Start: S2 End: LATERAL A Road: 99 Charlotte Street

Length: 18.59 Use: Surface Water Depth: 730 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 18.59m	100	Unidentified type of plastic	0	0	0

Section: 3 Start: S1 End: SPP Road: 99 Charlotte Street

Length: 5.55 Use: Surface Water Depth: 1040 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 05.55m	100	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 4 Start: SPP End: LATERAL A Road: 99 Charlotte Street

Length: 5.71 Use: Surface Water Depth: 1070 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 05.71m	100	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 5 Start: S3 End: LATERAL A Road: 99 Charlotte Street

Length: 0.11 **Use:** Surface Water **Depth:** 575 **Place:** London

F	rom To	Dia	Material	G1 - 2	G3 - 4	G5
	00.00m - 00.11m	100	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 6 Start: S3 End: LATERAL B Road: 99 Charlotte Street

Length: 2.01 Use: Surface Water Depth: 575 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 02.01m	100	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 7 Start: S3 End: DOWN Road: 99 Charlotte Street

Length: 6.38 Use: Surface Water Depth: 575 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 01.18m	100	Vitrified Clay (i.e. all clayware)	0	0	0
01.18m - 06.00m	150	Vitrified Clay (i.e. all clayware)	0	0	0
06.00m - 06.38m	100	Vitrified Clay (i.e. all clayware)	0	0	0

Grade 1 Defects	0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0	
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Section: 8 Start: S4 End: LATERAL A Road: 99 Charlotte Street

Length: 5.08 Use: Surface Water Depth: 525 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 00.59m	100	Unidentified type of plastic	0	0	0
00.59m - 05.08m	100	Cast Iron	0	0	0

Section: 9 Start: S4 End: LATERAL B Road: 99 Charlotte Street

Length: 9.93 Use: Surface Water Depth: 525 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 09.93m	100	Unidentified type of plastic	0	0	0

Section: 10 Start: S4 End: LATERAL C Road: 99 Charlotte Street

Length: 5.91 Use: Surface Water Depth: 525 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 00.11m	100	Unidentified type of plastic	0	0	0
00.11m - 05.91m	100	Cast Iron	0	0	0

Section: 11 Start: S4 End: S3 Road: 99 Charlotte Street

Length: 12.77 Use: Surface Water Depth: 520 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 12.77m	100	Unidentified type of plastic	0	0	0

Section: 12 Start: MH1 End: LATERAL A Road: 99 Charlotte Street

Length: 4.37 Use: Combined Depth: 610 Place: London

From To	Dia Material		G1 - 2	G3 - 4	G5
00.00m - 04.37m	150	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 13 Start: MH2 End: MH1 Road: 99 Charlotte Street

Length: 1.65 Use: Combined Depth: 2880 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 01.65m	150	Vitrified Clay (i.e. all clayware)	1	0	0

Section: 14 Start: MH2 End: LATERAL A Road: 99 Charlotte Street

Length: 4.35 Use: Combined Depth: 2880 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 04.35m	150	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 15 Start: MH2 End: PUBLIC SEWER Road: 99 Charlotte Street

Length: 8.51 Use: Combined Depth: 2880 Place: London

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 08.51m	225	Vitrified Clay (i.e. all clayware)	0	0	0

Grade 1 Defects 0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0	
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Section: 16 Start: MH3 End: MH2 Road: 99 Charlotte Street

Length: 6.26 Use: Combined Depth: 830 Place: London

 From To
 Dia
 Material
 G1 - 2
 G3 - 4
 G5

 00.00m - 06.26m
 150
 Vitrified Clay (i.e. all clayware)
 1
 0
 0

Section: 17 Start: MH3 End: LATERAL A Road: 99 Charlotte Street

Length: 5.08 Use: Combined Depth: 830 Place: London

 From To
 Dia
 Material
 G1 - 2
 G3 - 4
 G5

 00.00m - 05.08m
 150
 Vitrified Clay (i.e. all clayware)
 2
 0
 0

Section: 18 Start: MH3 End: LATERAL B Road: 99 Charlotte Street

Length: 3.78 Use: Combined Depth: 830 Place: London

 From To
 Dia
 Material
 G1 - 2
 G3 - 4
 G5

 00.00m - 03.78m
 100
 Cast Iron
 0
 0
 0

Section: 19 Start: MH3 End: LATERAL C Road: 99 Charlotte Street

Length: 2.83 Use: Combined Depth: 830 Place: London

 From To
 Dia
 Material
 G1 - 2
 G3 - 4
 G5

 00.00m - 02.83m
 100
 Cast Iron
 0
 0
 0

Section: 20 Start: MH3 End: LATERAL D Road: 99 Charlotte Street

Length: 4.01 Use: Combined Depth: 830 Place: London

 From To
 Dia
 Material
 G1 - 2
 G3 - 4
 G5

 00.00m - 04.01m
 100
 Cast Iron
 0
 0
 0

Section: 21 Start: MH3 End: LATERAL E Road: 99 Charlotte Street

Length: 2.95 Use: Combined Depth: 830 Place: London

 From To
 Dia
 Material
 G1 - 2
 G3 - 4
 G5

 00.00m - 02.95m
 100
 Cast Iron
 0
 0
 0

Section: 22 Start: MH3 End: LATERAL F Road: 99 Charlotte Street

Length: 3.9 Use: Combined Depth: 830 Place: London

 From To
 Dia
 Material
 G1 - 2
 G3 - 4
 G5

 00.00m - 03.90m
 100
 Cast Iron
 0
 0
 0





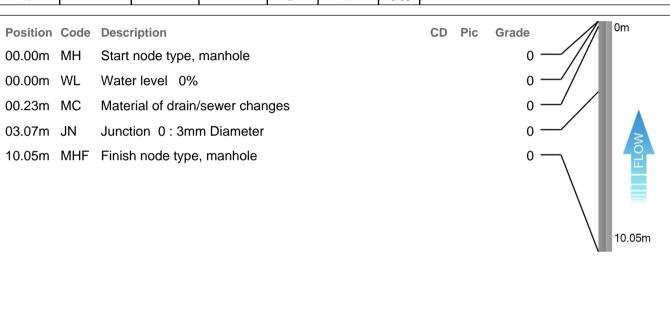




Section 1

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		Surveyors Name		:	Date	e:
UCL Estates	99 Charlotte Street		London		TC			25/09/2	2015		
Start Node Ref:	S1	Finish N	ode Ref:	S	2 Direction:	U	Heig	ht/Dia:	100		
Start Node Depth:	1040	Finish N	ode Depth:	730	Use:	S	Shap	oe:	С		
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	VC	Clea	ned	Y		

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	10.05	



Grade 1 Defects 0 Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S1	
00.00m	WL	Water level: 0% Height/Diameter	
00.23m	MCXP	Material of drain/sewer changes: Material Changes To Unidentified type of plastic	
03.07m	JN	Junction at 0 o'clock: 3mm Diameter Junction For Gully	
10.05m	MHF	Finish node type, manhole S2	

Grade 1 Defects 0 Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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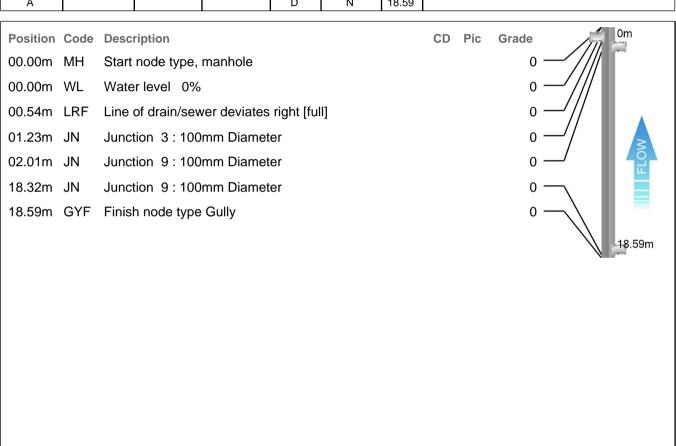




Section 2

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		Surveyors Name:		:	Date	e:
UCL Estates	99 Charlotte Street		London		TC			25/09/2	2015		
Start Node Ref:	S2	Finish N	ode Ref:	LATERAL A	Direction:	U	Heig	ht/Dia:	100		
Start Node Depth:	730	Finish N	ode Depth:	(Use:	S	Shap	oe:	С		
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	aterial: XP Clea		ned	Υ		

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	18.59	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S2	
00.00m	WL	Water level: 0% Height/Diameter	
00.54m	LRF	Line of drain/sewer deviates right [full]	
01.23m	JN	Junction at 3 o'clock: 100mm Diameter	
02.01m	JN	Junction at 9 o'clock: 100mm Diameter	
18.32m	JN	Junction at 9 o'clock: 100mm Diameter	
18.59m	GYF	Finish node type Gully LATERAL A	

Grade 1 Defects 0 Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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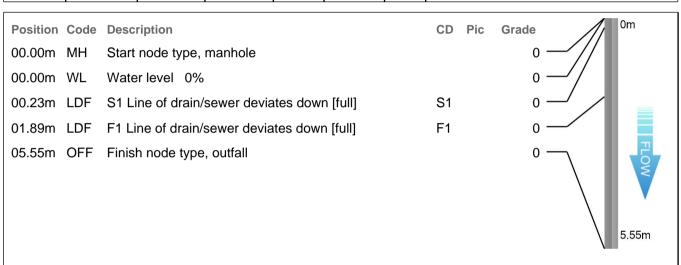




Section 3

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		:	Date:	
UCL Estates	99 Charlotte Street		otte Street London		TC			25/09/2015	
Start Node Ref:	S1	Finish N	ode Ref:	SPF	Direction:	D	Heig	ht/Dia:	100
Start Node Depth:	1040	Finish N	ode Depth:	1840	Use:	S	Shap	e:	С
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	VC	Clea	ned	Υ

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	5.55	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S1	
00.00m	WL	Water level: 0% Height/Diameter	
00.23m	S1 LDF	Line of drain/sewer deviates down [full]0.23m - 1.89m	
01.89m	F1 LDF	Line of drain/sewer deviates down [full]Defect End	
05.55m	OFF	Finish node type, outfall SPP	

Grade 1 Defects	0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0	7
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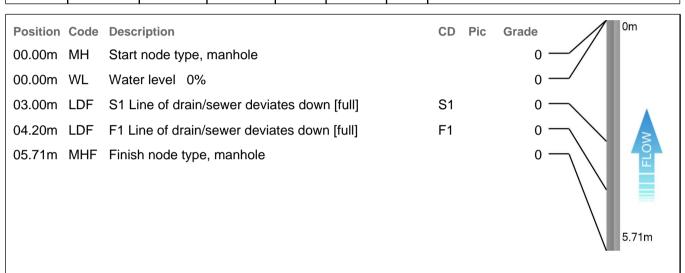




Section 4

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		:	Date:	
UCL Estates	99 Charlotte Street		99 Charlotte Street London		TC			25/09/2015	
Start Node Ref:	SPP	Finish No	ode Ref:	LATERAL A	A Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	1070	Finish No	ode Depth:	(Use:	S	Shap	oe:	С
Start Node Coordinate:		Finish No	ode Coordinate:		Material:	VC	Clea	ned	Υ
					•		•		

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	5.71	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole SSP	
00.00m	WL	Water level: 0% Height/Diameter	
03.00m	S1 LDF	Line of drain/sewer deviates down [full]3m - 4.2m	
04.20m	F1 LDF	Line of drain/sewer deviates down [full]Defect End	
05.71m	MHF	Finish node type, manhole Finish Survey At Rest Bend	





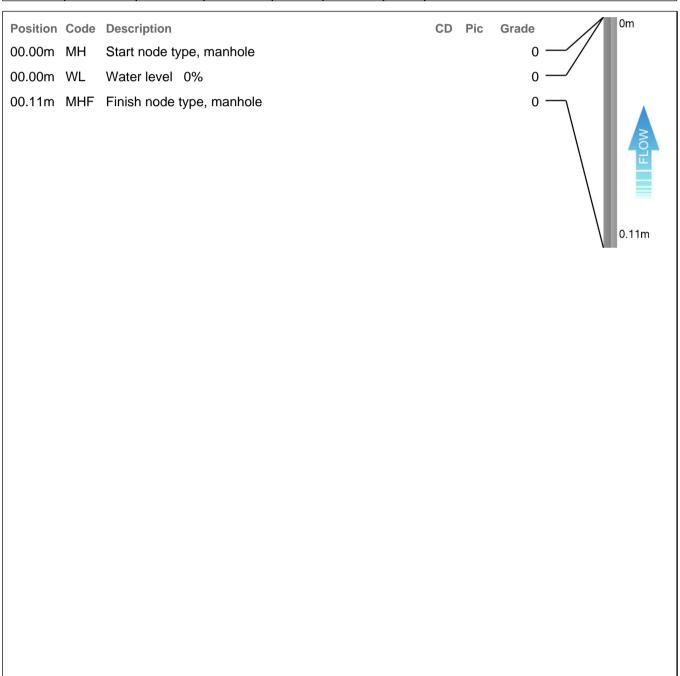




Section 5

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors N	:	Date		
UCL Estates	99 Charlotte Stre		Street London		TC			25/09/2015	
Start Node Ref:	S3	Finish No	ode Ref:	LATERAL A	Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	575	Finish No	ode Depth:	(Use: S SI			oe:	С
Start Node Coordinate:		Finish No	ode Coordinate:	Material:	VC	Clea	ned	Υ	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	0.11	



Grade 1 Defects 0	Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects	0	
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F1	
00.00m	WL	Water level: 0% Height/Diameter	
00.11m	MHF	Finish node type, manhole Finish Survey At 50mm Pump Pit Inlet Pipe	

	Grade 1 Defects	()	Grade 2 Defects	5	7	Grade 3 Defects		0	Grade 4 Defects	lΓ	0	Grade 5 Defects		5	
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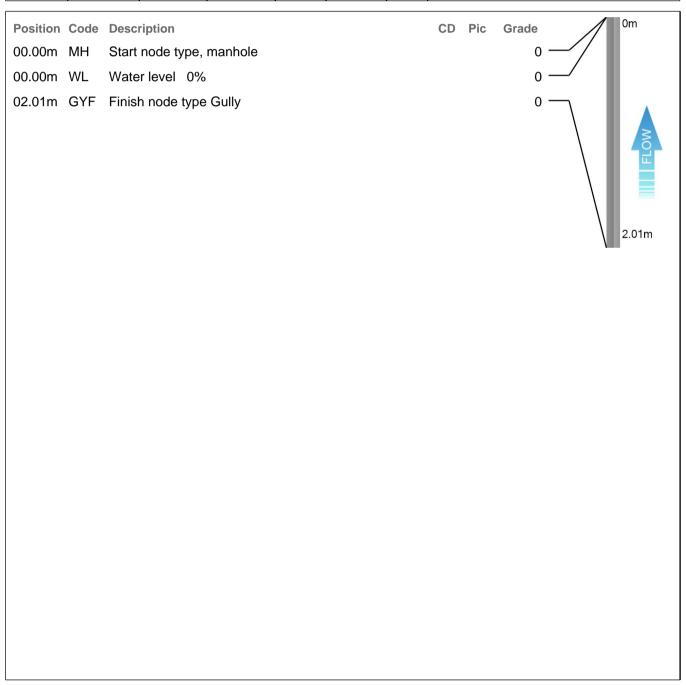




Section 6

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors N	lame	:	Date	
UCL Estates	99 Charlotte Stre		Street London		TC			25/09/2015	
Start Node Ref:	S3	Finish No	ode Ref:	LATERAL E	B Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	575	Finish No	ode Depth:	(Use:	Shap	Shape:		
Start Node Coordinate:		Finish No	ode Coordinate:	Material:	VC	Clea	ned	Υ	

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



Grade 1 Defects 0 Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole	
00.00m	WL	Water level: 0% Height/Diameter	
02.01m	GYF	Finish node type Gully Redundant Line	





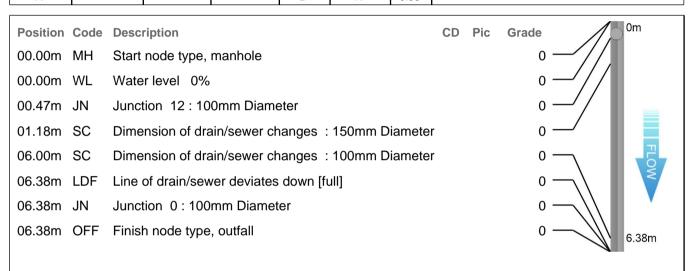




Section 7

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors	Date		e:	
UCL Estates	99 Charlotte Street		London		TC			25/09/2015	
Start Node Ref:	S3	Finish N	ode Ref:	DOWN	Direction:	D	Heig	ht/Dia:	100
Start Node Depth:	575	Finish N	ode Depth:	(Use: S S		Shap	e:	С
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	VC	Clea	ned	Υ

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	6.38	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S3	
00.00m	WL	Water level: 0% Height/Diameter	
00.47m	JN	Junction at 12 o'clock: 100mm Diameter Gully Connection	
01.18m	SC	Dimension of drain/sewer changes: 150mm Diameter Line Diameter Changes From 100mm To 150mm	
06.00m	SC	Dimension of drain/sewer changes: 100mm Diameter Pipe Diameter Changes From 150mm To 100mm	
06.38m	LDF	Line of drain/sewer deviates down [full]	
06.38m	JN	Junction at 0 o'clock: 100mm Diameter Lateral Connection To Internal RWP	
06.38m	OFF	Finish node type, outfall SPP2	

Grade 1 Defects	0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0	
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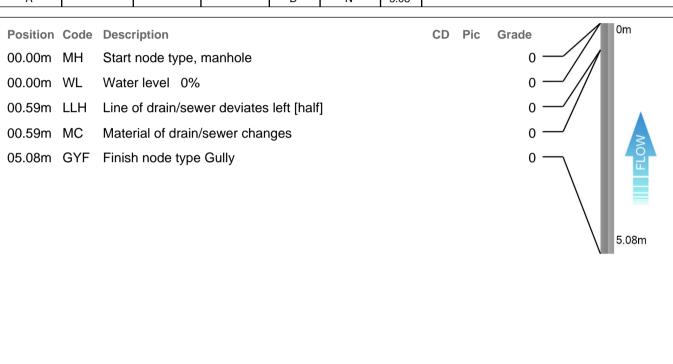




Section 8

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name		e: Date:		э:
UCL Estates	99 Charlotte S	treet London			TC			25/09/2	2015
Start Node Ref: S4 Fin			Finish Node Ref: LATERAL A			U	Heig	ht/Dia:	100
Start Node Depth:	525	525 Finish Node Depth:			Use: S Sha		Shap	e:	С
Start Node Coordinate:		ode Coordinate:		Material:	ΧP	Clea	ned	Υ	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	5.08	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S6	
00.00m	WL	Water level: 0% Height/Diameter	
00.59m	LLH	Line of drain/sewer deviates left [half]	
00.59m	MCCI	Material of drain/sewer changes: Material Changes To Cast Iron Line Changes From Plastic To Cast Iron	
05.08m	GYF	Finish node type Gully LATERAL A	

Grade 1 Defects 0 Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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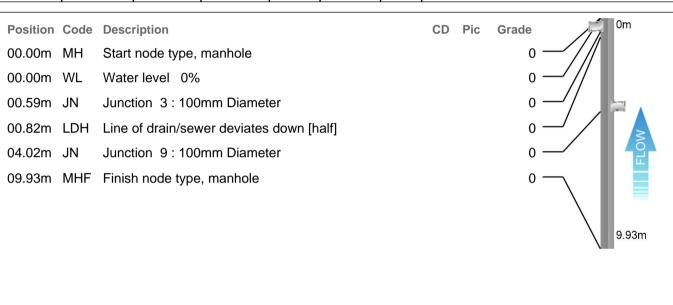




Section 9

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		:	Date	e:
UCL Estates	99 Charlotte Street		reet London		TC			25/09/2	2015
Start Node Ref:	S4	Finish No	ode Ref:	LATERAL E	Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	525	Finish No	ode Depth:	(Use:	S	Shap	oe:	С
Start Node Coordinate:		Finish No	ode Coordinate:		Material: XP CI		Clea	ned	Υ

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	9.93	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S4	
00.00m	WL	Water level: 0% Height/Diameter	
00.59m	JN	Junction at 3 o'clock: 100mm Diameter	
00.82m	LDH	Line of drain/sewer deviates down [half]	
04.02m	JN	Junction at 9 o'clock: 100mm Diameter	
09.93m	MHF	Finish node type, manhole Finish Survey At Aco	

Grade 1 Defects	0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0	
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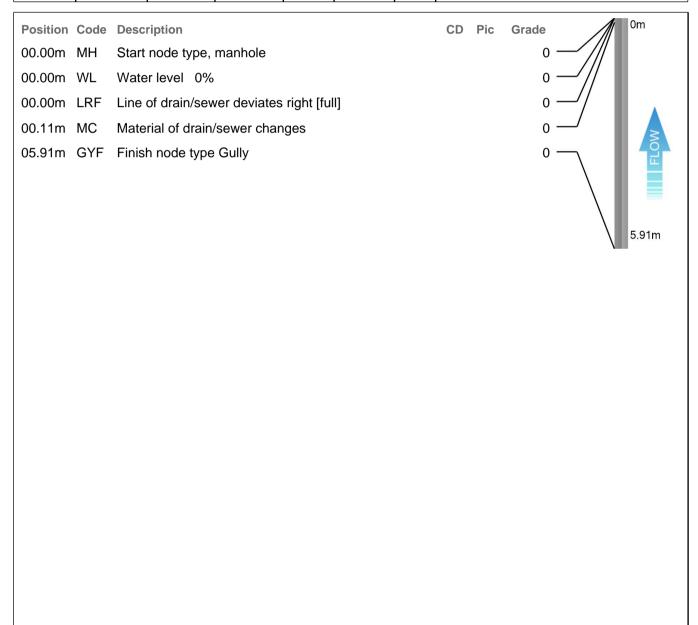




Section 10

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:			Date:	
UCL Estates	99 Charlotte Street		London		TC		25/09/2015		
Start Node Ref:	S4	Finish N	ode Ref:	LATERAL C	Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	525	Finish N	ode Depth:	(Use:	S	Shap	oe:	С
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	ΧP	Clea	ned	Y
					•		•		

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	5.91	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S4	
00.00m	WL	Water level: 0% Height/Diameter	
00.00m	LRF	Line of drain/sewer deviates right [full]	
00.11m	MCCI	Material of drain/sewer changes: Material Changes To Cast Iron Pipe Changes From Plastic To Cast Iron	
05.91m	GYF	Finish node type Gully Finish Survey At Redundant Gully Under Manhole Cover	

Grade 1 Defects	0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0	
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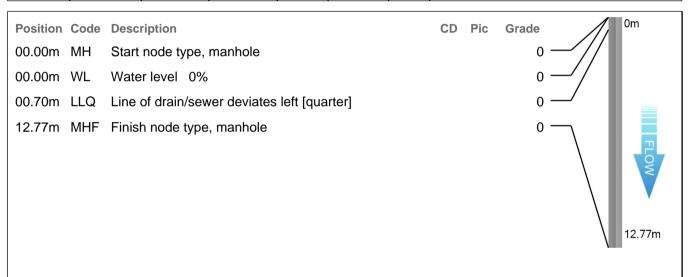




Section 11

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Na	ame:		Date:	
UCL Estates	99 Charlotte Street		London		TC			25/09/2015	
Start Node Ref:	S4	Finish N	ode Ref:	S	3 Direction:	D	Heigl	nt/Dia:	100
Start Node Depth:	520	Finish N	ode Depth:	52	5 Use:	s	Shap	e:	С
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	ΧP	Clear	ned	Y

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	12.77	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S4	
00.00m	WL	Water level: 0% Height/Diameter	
00.70m	LLQ	Line of drain/sewer deviates left [quarter]	
12.77m	MHF	Finish node type, manhole S3	

Grade 1 Defects 0 Grade 2 Defects	5 Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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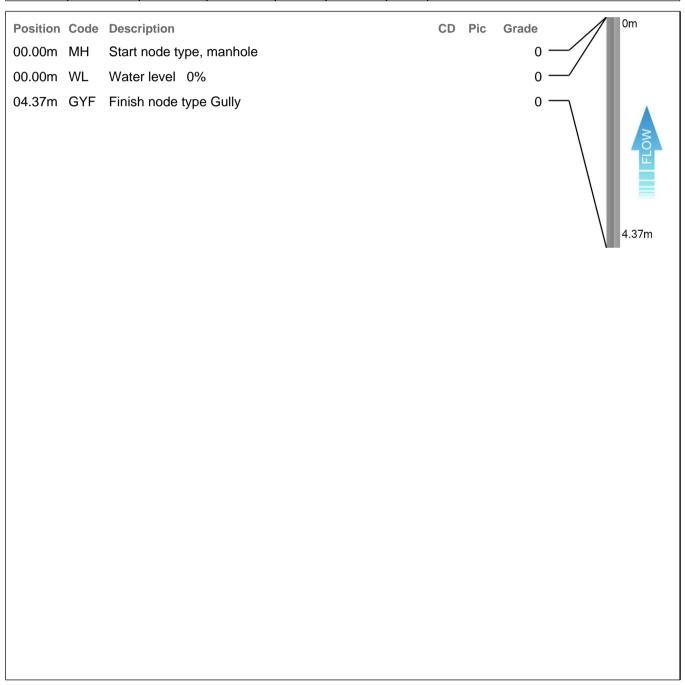




Section 12

Location (Street	Name):	City/Town/Village	Cust Job Ref.	Surveyors	:	Date:		
99 Charlotte S	treet	London		TC			25/09/2015	
MH1	Finish N	ode Ref:	LATERAL A	Direction:	U	Heig	ht/Dia:	150
610	Finish N	ode Depth:	(Use:	С	Shap	oe:	С
	Finish N	ode Coordinate:		Material:	VC	Clea	ned	Υ
	99 Charlotte S	610 Finish N		99 Charlotte Street London MH1 Finish Node Ref: LATERAL A 610 Finish Node Depth:	99 Charlotte Street London TC MH1 Finish Node Ref: LATERAL A Direction: 610 Finish Node Depth: 0 Use:	99 Charlotte Street London TC MH1 Finish Node Ref: LATERAL A Direction: U 610 Finish Node Depth: 0 Use: C	99 Charlotte Street London TC MH1 Finish Node Ref: LATERAL A Direction: U Heig 610 Finish Node Depth: 0 Use: C Shap	99 Charlotte Street London TC 25/09/2 MH1 Finish Node Ref: LATERAL A Direction: U Height/Dia: 610 Finish Node Depth: 0 Use: C Shape:

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	4.37	



Grade 1 Defects 0 Grade 2	ects Grade 3 Defects	0 Grade 4 Defects	0	Grade 5 Defects	0	
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S5	
00.00m	WL	Water level: 0% Height/Diameter	
04.37m	GYF	Finish node type Gully LATERAL A	

Grade 1 Defects 0	Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects	0	
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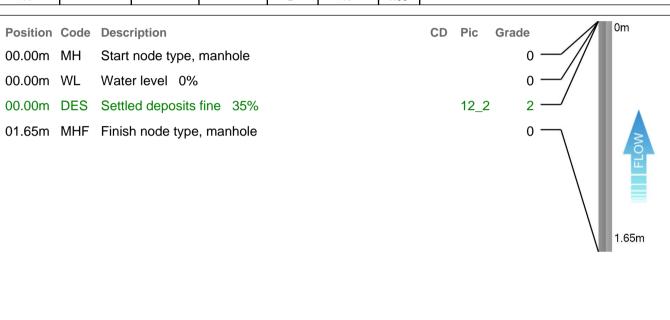




Section 13

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		: Date		e:
UCL Estates	99 Charlotte Street		London		TC			25/09/2015	
Start Node Ref:	MH2	Finish No	ode Ref:	MH	Direction:	U	Heigh	nt/Dia:	150
Start Node Depth:	2880	Finish No	ode Depth:	610	Use:	С	Shap	e:	С
Start Node Coordinate:		Finish No	ode Coordinate:		Material:	VC	Clear	ned	Y

Draii	n Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
	Α				D	N	1.65	



Grade 1 Defects 0 Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S5	
00.00m	WL	Water level: 0% Height/Diameter	
00.00m	DES	Settled deposits fine: 35% Cross sectional area loss - Grade 2 SOLID DEBRIS UNABLE REMOVE WITH STANDARD JET	Image Provided - Ref: 12_2 17:46:26 14-07-16 0.90m Name: Gulliford Try
01.65m	MHF	Finish node type, manhole S6 Unable To Lift Manhole Due To Rusted And Concreted In Cover, Requires Heaving Lifting Equipment	

Grade 1 Defects	0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0]
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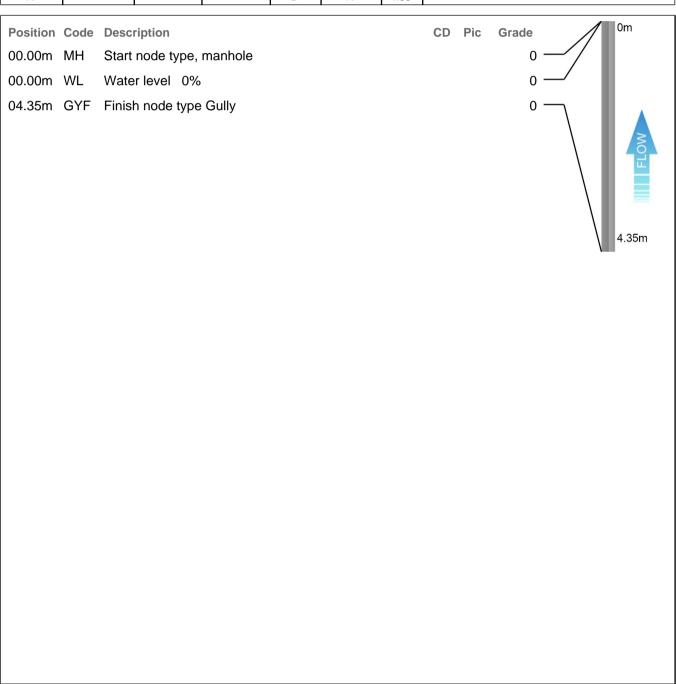




Section 14

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		:	Date	e:
UCL Estates	99 Charlotte S	treet	London		TC			25/09/2015	
Start Node Ref:	MH2	Finish No	ode Ref:	LATERAL A	Direction:	U	Heigh	nt/Dia:	150
Start Node Depth:	2880	Finish No	ode Depth:	(Use:	С	Shap	e:	С
Start Node Coordinate:		Finish No	ode Coordinate:		Material:	VC	Clear	ned	Y

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	4.35	



Grade 1 Defects 0	Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects	0	
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH2	
00.00m	WL	Water level: 0% Height/Diameter	
04.35m	GYF	Finish node type Gully LATERAL A	

Grade 1 Defects 0	Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects	0	
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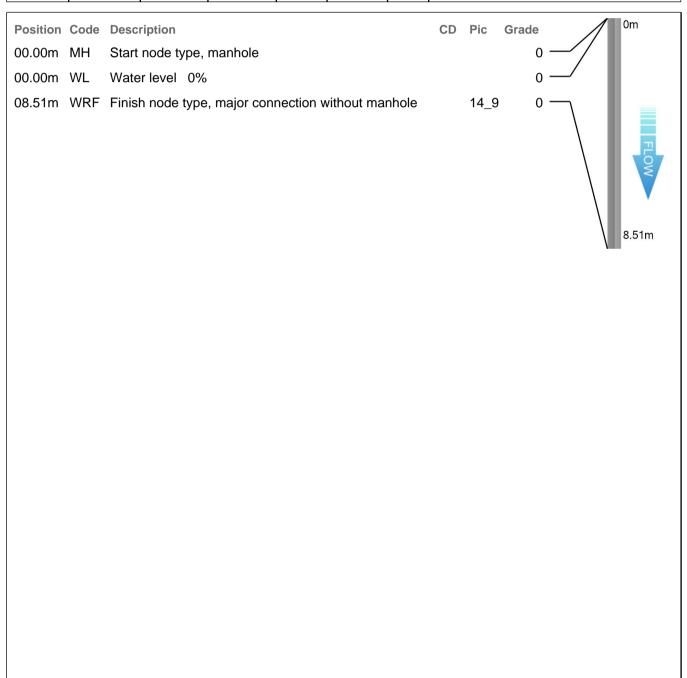




Section 15

Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		:	Date:	
99 Charlotte Street		London		TC		25/09/2015		
MH2	Finish N	ode Ref:	PUBLIC SEWER	R Direction:	D	Heig	ht/Dia:	225
2880	Finish N	ode Depth:	(Use:	С	Shap	e:	С
	Finish N	ode Coordinate:		Material:	VC	Clea	ned	Υ
	99 Charlotte S	99 Charlotte Street MH2 Finish No. 2880 Finish No.		99 Charlotte Street London MH2 Finish Node Ref: PUBLIC SEWER 2880 Finish Node Depth:	99 Charlotte Street London TC MH2 Finish Node Ref: PUBLIC SEWER Direction: Use:	99 Charlotte Street London TC MH2 Finish Node Ref: PUBLIC SEWER Direction: D 2880 Finish Node Depth: 0 Use: C	99 Charlotte Street London TC MH2 Finish Node Ref: PUBLIC SEWER Direction: D Height Sewer Street Shape Shap	99 Charlotte Street London TC 25/09/2 MH2 Finish Node Ref: PUBLIC SEWER Direction: D Height/Dia: Shape:

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	8.51	



Grade 1 Defects 0	Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects	0	
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH2	
00.00m	WL	Water level: 0% Height/Diameter	
08.51m	WRF	Finish node type, major connection without manhole PUBLIC SEWER	Image Provided - Ref: 14_9999

Grade 1 Defects	0 Grade 2 De	ects 5 Grade 3	3 Defects 0 Grade	4 Defects 0	Grade 5 Defects	0
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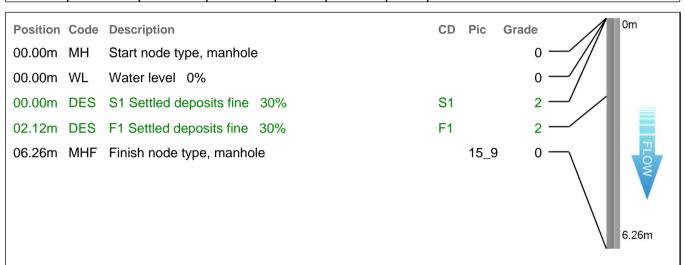




Section 16

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		:	Date:	
UCL Estates	99 Charlotte Street		London		TC			25/09/2015	
Start Node Ref:	MH3	Finish N	ode Ref:	MH2	2 Direction:	D	Heig	ht/Dia:	150
Start Node Depth:	830	Finish N	ode Depth:	2880	Use:	С	Shap	oe:	С
Start Node Coordinate:		Finish N	ode Coordinate:		Material: VC Clea		ned	Υ	

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	6.26	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH2	
00.00m	WL	Water level: 0% Height/Diameter	
00.00m	S1 DES	Settled deposits fine0m - 2.12m: 30% Cross sectional area loss - Grade 2 SOLID DEBRIS UNABLE TO REMOVE USING STANDARD JET	
02.12m	F1 DES	Settled deposits fineDefect End: 30% Cross sectional area loss - Grade 2 SOLID DEBRIS UNABLE TO REMOVE USING STANDARD JET	
06.26m	MHF	Finish node type, manhole MH2, FINISH SURVEY AT BACK DROP	Image Provided - Ref: 15_9999 14:58:87 14-87-16 6.26m

Grade 1 Defects	0	Grade 2 Defects	5	Grade 3 Defects	0	Grade 4 Defects	0	Grade 5 Defects	0]
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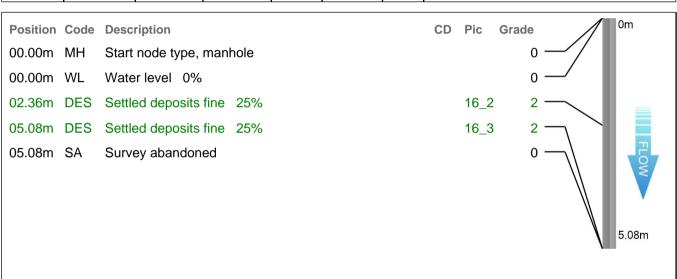




Section 17

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors	Name	:	Date	e:
UCL Estates	99 Charlotte Street		London		тс			25/09/2	2015
Start Node Ref:	MH3	Finish N	ode Ref:	LATERAL A	Direction:	D	Heig	ht/Dia:	150
Start Node Depth:	830	Finish N	ode Depth:	(Use:	С	Shap	e:	С
Start Node Coordinate:		Finish N	ode Coordinate:		Material: VC Clea		Clea	ned	Υ

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	5.08	



Grade 1 Defects 0	Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects	0	
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH3	
00.00m	WL	Water level: 0% Height/Diameter	
02.36m	DES	Settled deposits fine: 25% Cross sectional area loss - Grade 2 SOLID DEBRIS POSSIBLE PAINT/CEMENT, UNABLE TO CLEAR USING STANDARD JET	Image Provided - Ref: 16_2 14:42:51 14-07-16 2.36m Start: MH3 Finish: A Date: 2016-07-14 Time: 14:42
05.08m	DES	Settled deposits fine: 25% Cross sectional area loss - Grade 2 SOLID DEBRIS UNABLE TO CLEAR USING STANDARD JET	Image Provided - Ref: 16_3 14:43:07 14-07-16 5.08m
05.08m	SA	Survey abandoned UNABLE TO PUSH PAST DEBRIS	

Grade 1 Defects 0 Grade 2 Defects	5 Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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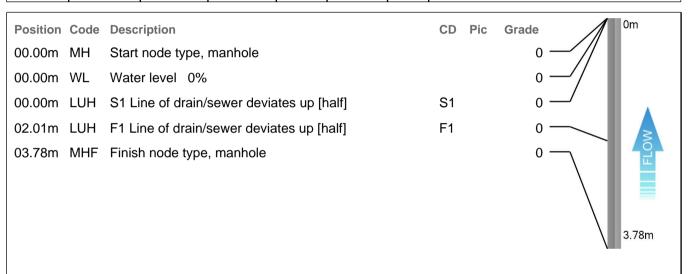




Section 18

Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		:	Date:	
99 Charlotte Stree		treet London		TC			25/09/2	2015
МНЗ	Finish N	ode Ref:	LATERAL E	B Direction:	U	Heig	ht/Dia:	100
830	Finish N	ode Depth:	(Use:	С	Shap	e:	С
	Finish N	ode Coordinate:		Material:	CI	Clea	ned	Υ
	99 Charlotte S	99 Charlotte Street MH3 Finish N 830 Finish N		99 Charlotte Street London MH3 Finish Node Ref: LATERAL E 830 Finish Node Depth:	99 Charlotte Street London TC MH3 Finish Node Ref: LATERAL B Direction: 830 Finish Node Depth: 0 Use:	99 Charlotte Street London TC MH3 Finish Node Ref: LATERAL B Direction: U 830 Finish Node Depth: 0 Use: C	99 Charlotte Street London TC MH3 Finish Node Ref: LATERAL B Direction: U Heig Shape Finish Node Depth: 0 Use: C Shape	99 Charlotte Street London TC 25/09/2 MH3 Finish Node Ref: LATERAL B Direction: U Height/Dia: Shape:

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	3.78	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH3	
00.00m	WL	Water level: 0% Height/Diameter	
00.00m	S1 LUH	Line of drain/sewer deviates up [half]0m - 2.01m	
02.01m	F1 LUH	Line of drain/sewer deviates up [half]Defect End	
03.78m	MHF	Finish node type, manhole LATERAL B, FINISH SURVEY AT SVP REST BEND	

Grade 1 Defects 0 Grade 2 Defects	5 Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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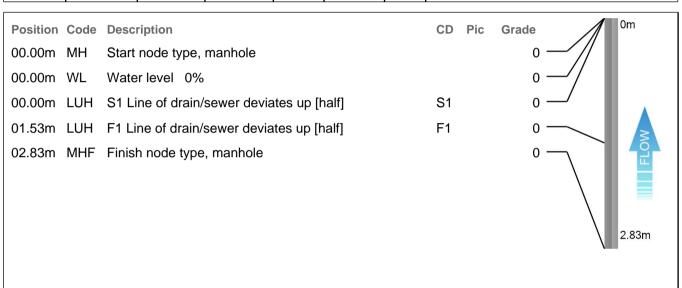




Section 19

Client:	Location (Street	Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:			Date:	
UCL Estates	99 Charlotte Street		London	тс				25/09/2	2015
Start Node Ref:	MH3	Finish N	ode Ref:	LATERAL (Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	830	Finish N	ode Depth:	(Use: C Shap		oe:	С	
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	CI	Clea	ned	Y
		-			•		•		

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	2.83	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH3	
00.00m	WL	Water level: 0% Height/Diameter	
00.00m	S1 LUH	Line of drain/sewer deviates up [half]0m - 1.53m	
01.53m	F1 LUH	Line of drain/sewer deviates up [half]Defect End	
02.83m	MHF	Finish node type, manhole LATERAL C, FINISH SURVEY AT SVP REST BEND	





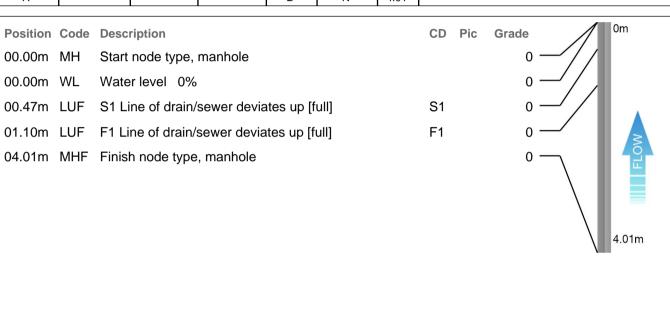




Section 20

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors	Name	:	Date:	
UCL Estates	99 Charlotte Street		London		тс		2		2015
Start Node Ref:	MH3	Finish No	ode Ref:	LATERAL [Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	830	Finish No	ode Depth:	(Use:	С	Shap	oe:	С
Start Node Coordinate:		Finish No	ode Coordinate:		Material:	CI	Clea	ned	Y
		•			•		•		

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	4.01	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH3	
00.00m	WL	Water level: 0% Height/Diameter	
00.47m	S1 LUF	Line of drain/sewer deviates up [full]0.47m - 1.1m	
01.10m	F1 LUF	Line of drain/sewer deviates up [full]Defect End	
04.01m	MHF	Finish node type, manhole LATERAL D, FINISH SURVEY AT REST BEND	

Grade 1 Defects 0 Grade 2 Defe	cts 5 Grade 3 Defects	0 Grade 4 Defects	0	Grade 5 Defects	0	
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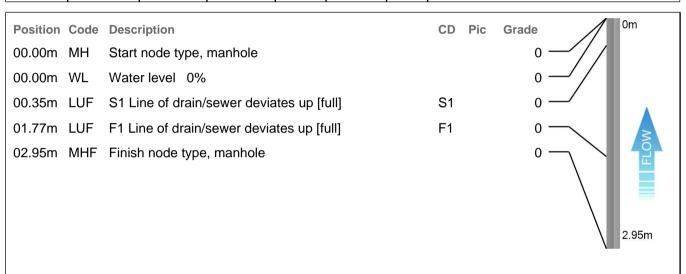




Section 21

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:			Date	e:
UCL Estates	99 Charlotte Street		London		тс			25/09/2015	
Start Node Ref:	МНЗ	Finish N	ode Ref:	LATERAL E	Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	830	Finish N	ode Depth:	(Use:	С	Shap	oe:	С
Start Node Coordinate:		Finish N	ode Coordinate:		Material:	CI	Clea	ned	Υ

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	2.95	











Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH3	
00.00m	WL	Water level: 0% Height/Diameter	
00.35m	S1 LUF	Line of drain/sewer deviates up [full]0.35m - 1.77m	
01.77m	F1 LUF	Line of drain/sewer deviates up [full]Defect End	
02.95m	MHF	Finish node type, manhole LATERAL E, FINISH SURVEY AT REST BEND	





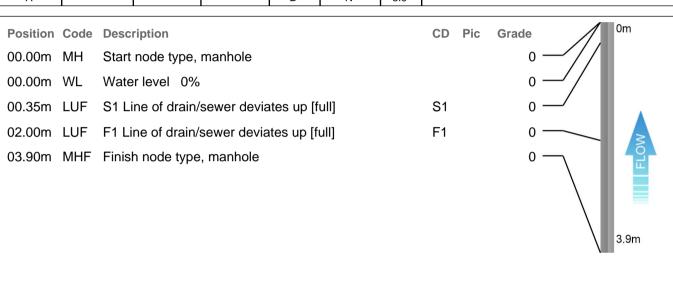




Section 22

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyors Name:		Date:		
UCL Estates	99 Charlotte Street		London		тс		25/09/2015		
Start Node Ref:	MH3	Finish No	ode Ref:	LATERAL F	Direction:	U	Heig	ht/Dia:	100
Start Node Depth:	830	Finish No	ode Depth:	(Use:	С	Shape:		С
Start Node Coordinate:		Finish No	ode Coordinate:		Material:	CI	Clea	ned	Y
		•			•				

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	3.9	



Grade 1 Defects 0 Grade 2 Defects 5	Grade 3 Defects 0	Grade 4 Defects 0	Grade 5 Defects 0
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH3	
00.00m	WL	Water level: 0% Height/Diameter	
00.35m	S1 LUF	Line of drain/sewer deviates up [full]0.35m - 2m	
02.00m	F1 LUF	Line of drain/sewer deviates up [full]Defect End	
03.90m	MHF	Finish node type, manhole LATERAL F, FINISH SURVEY AT REST BEND	

Grade 1 Defects 0 Grade 2 Defe	ts 5 Grade 3 Defects	0 Grade 4 Defects	0	Grade 5 Defects	0	
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