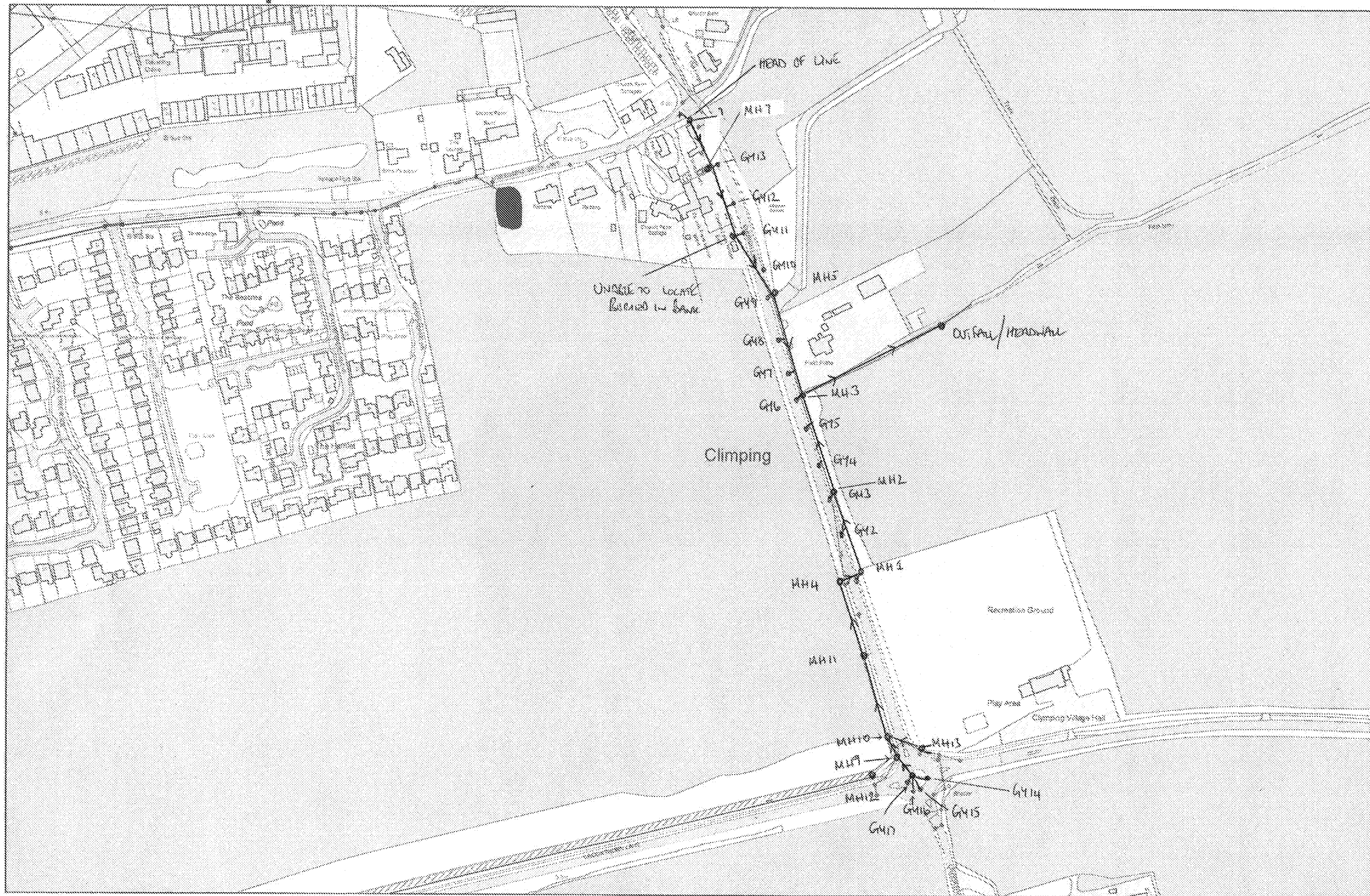


Appendix H Ultraflow Drainage Investigation Results

Arun District Council Maps



Mapping produced by Arun District Council

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Production Date: 01 July 2020

ARUN DISTRICT COUNCIL CM18/21/RES

Scale: 1:2500 @ A3

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Project-information

Project name: Church Lane Investigation	Contract number: 163806AN	Contact: Katherine Richards	Date: 25/08/2020
---	-------------------------------------	---------------------------------------	----------------------------

Client	Foreman Homes
Contact:	Katherine Richards
Position:	Planning Manager
Road	Unit 1 Station Industrial Park,Duncan Road
Town	Park Gate
County	Hampshire
Telephone:	
Fax:	
Mobile:	
E-Mail:	
Site	Church Lane
Contact:	Katherine Richards
Position:	Planning Manager
Road	Church Lane
Town	Climping
County	West Sussex
Telephone:	
Fax:	
Mobile:	
E-Mail:	
Contractor	Ultraflow Drainage Maintenance Solutions
Contact:	Phil Crowson
Position:	Sales Manager
Road	Unit 8 East Portway Ind Est
Town	Andover
County	Hampshire
Telephone:	01264 339900
Fax:	
Mobile:	07788 297214
E-Mail:	philip.crowson@ultraflowdrainage.com



Defect Grade Description

Project name: Church Lane Investigation	Contract number: 163806AN	Contact: Katherine Richards	Date: 25/08/2020
1:	Brick: No Structural Defects Pipe: No Structural Defects Acceptable Structural Condition		
2:	Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight Minor collapse risk in short term but potential for further deterioration		
3:	Brick: Total mortarloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium Pipe: Fractures with deformation up to 5%, Longitudinal cracking or multiple cracking, Minor loss of level, More severe joint defects, Spalling medium, Wear medium ! Collapse unlikely in near future but future deterioration likely !		
4:	Brick: Total mortarloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks Pipe: Broken, Deformation up to 10% and broken, Fractured with deformation 5 - 10%, Multiple fractures, Serious loss of level, spalling large, wear large !! Collapse likely in foreseeable future !!		
5:	Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missing, Fractured with deformation over 10% !!! Collapsed or collapse imminent !!!		



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 1	PLR: Gully 1 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 1
Place: Climping	Drain. Area:	end MH: MH 1
Location: Road	Standard: BS EN 13508-2:2003	Total length: 3.46 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	
Type: Gravity drain/sewer	Material: Concrete	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:50	position	code	observation	counter	photo	grade
/ Cover level: 5.564						
	0.00	GY	Start node type, gully, reference number: Gully 1		1_1a	
	0.00	WL	Water level 05 % height/diameter			0
	3.46	MHF	Finish node type, manhole, reference number: MH 1		3_3a	
/ Cover level: 5.491						



Inspection photos

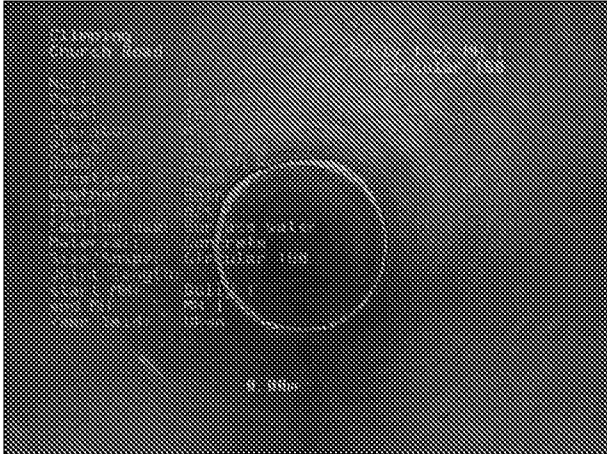
Place:
ClimpingRoad:
Church RoadDate:
25/08/2020section number:
1PLR:
Gully 1 X

Photo: 1_1a
0m, Start node type, gully, reference number: Gully 1



Photo: 3_3a
3.46m, Finish node type, manhole, reference number: MH 1



Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 2	PLR: MH 1 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road:	Church Road	Div/Dist:		start MH:	MH 1
Place:	Climping	Drain. Area:		end MH:	MH 2
Location:	Road	Standard:	BS EN 13508-2:2003	Total length:	69.09 m
Purpose:	Routine inspection of condition		Shape/Size:	Circular 225	
Type:	Gravity drain/sewer		Material:	Vitrified clay (i.e. all clayware) Pipe length:	
Use:	Surface water		Lining:		
			Lining Type:		
Comment:					

1:525	position	code	observation	counter	photo	grade
	0.00	MH	Start node type, manhole, reference number: MH 1		4_1a	0
	0.00	WL	Water level 05 % height/diameter			0
	7.13	FC	Fracture Circumferential from 12 to 12 o'clock		6_3a	3
	31.07	RFJ	Fine Roots at joint		7_4a	1
	34.47	RTJ	Roots tap at joint		8_5a	2
	35.00	JN	Junction at 09 o'clock dia 150 mm		9_6a	0
	37.06	RFJ	Fine Roots at joint			1
	61.01	JN	Junction at 09 o'clock dia 150 mm		11_8a	0
	68.39	RFJ	Fine Roots at joint		12_9a	1
	69.09	MHF	Finish node type, manhole, reference number: MH 2		13_10a	
/ Cover level: 5.14						



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
2

PLR:
MH 1 X



Photo: 4_1a
0m, Start node type, manhole, reference number: MH 1



Photo: 6_3a
7.13m, Fracture Circumferential from 12 to 12 o'clock

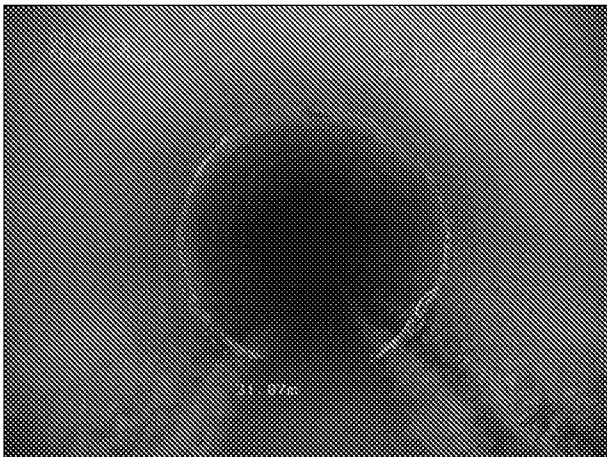


Photo: 7_4a
31.07m, Fine Roots at joint

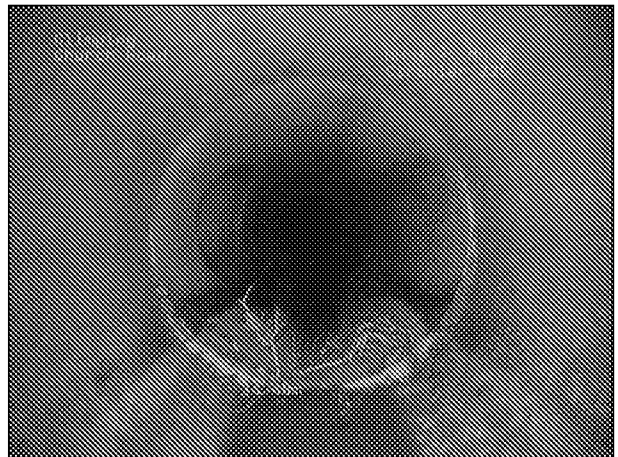


Photo: 8_5a
34.47m, Roots tap at joint



Inspection photos

Place: Climping	Road: Church Road	Date: 25/08/2020	section number: 2	PLR: MH 1 X
---------------------------	-----------------------------	----------------------------	-----------------------------	-----------------------

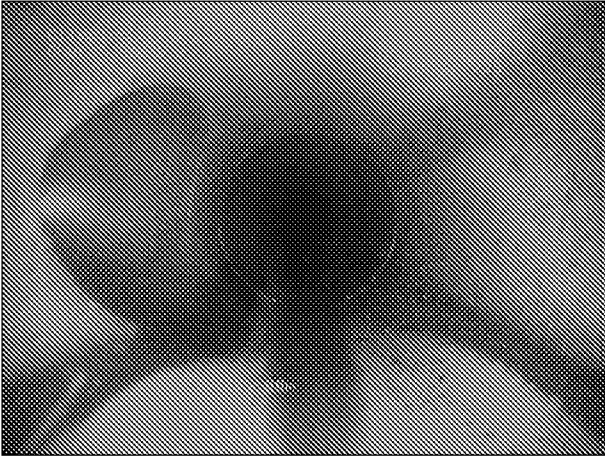


Photo: 9_6a
35m, Junction at 09 o'clock dia 150 mm

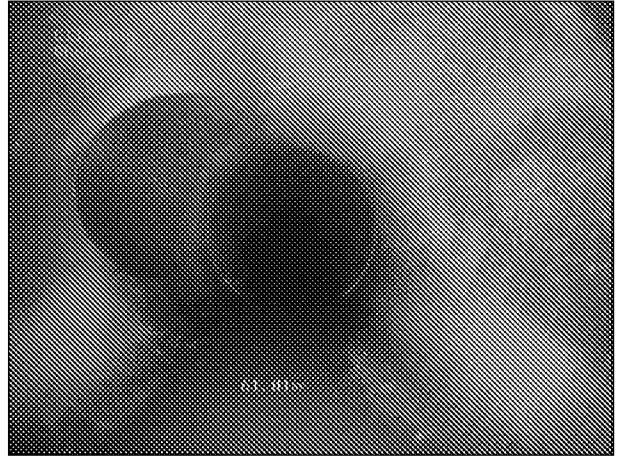


Photo: 11_8a
61.01m, Junction at 09 o'clock dia 150 mm

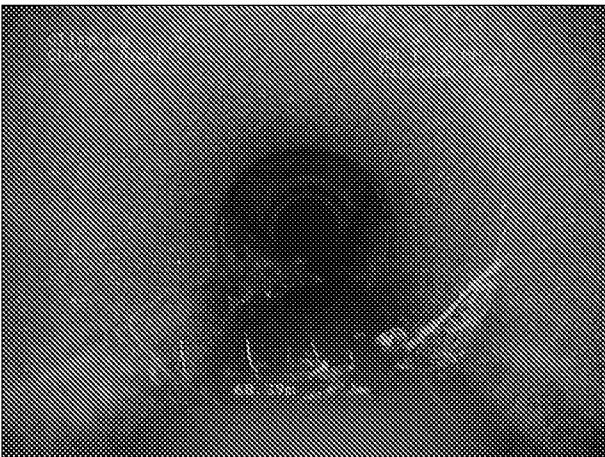


Photo: 12_9a
68.39m, Fine Roots at joint



Photo: 13_10a
69.09m, Finish node type, manhole, reference number: MH 2



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 3	PLR: MH 2 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned:	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 2
Place: Climping	Drain. Area:	end MH: MH 3
Location: Road	Standard: BS EN 13508-2:2003	Total length: 49.77 m
Purpose: Routine inspection of condition	Shape/Size: Circular 225	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:375	position	code	observation	counter	photo	grade
	0.00	MH	Start node type, manhole, reference number: MH 2		14_1a	0
	0.00	WL	Water level 05 % height/diameter			0
	0.60	FC	Fracture Circumferential from 12 to 12 o'clock		16_3a	3
	2.05	RMJ	Mass Roots at joint 15 % cross-sectional area loss		17_4a	5
	7.60	RTJ	Roots tap at joint		18_5a	2
	9.35	RFJ	Fine Roots at joint		19_6a	1
	15.04	RFJ	Fine Roots at joint		20_7a	1
	17.07	JN	Junction at 09 o'clock dia 150 mm		21_8a	0
	23.33	RTJ	Roots tap at joint		22_9a	2
	25.19	RFJ	Fine Roots at joint		23_10a	1
	26.85	RMJ	Mass Roots at joint 25 % cross-sectional area loss		24_11a	5
	43.99	JN	Junction at 09 o'clock dia 150 mm		25_12a	0
	46.23	RFJ	Fine Roots at joint		26_13a	1
	48.27	RTJ	Roots tap at joint		27_14a	2
	49.10	JDL	Joint displaced large		28_15a	2
	49.77	SA	Survey abandoned, Remark: Due to large displaced joint			1



Inspection photos

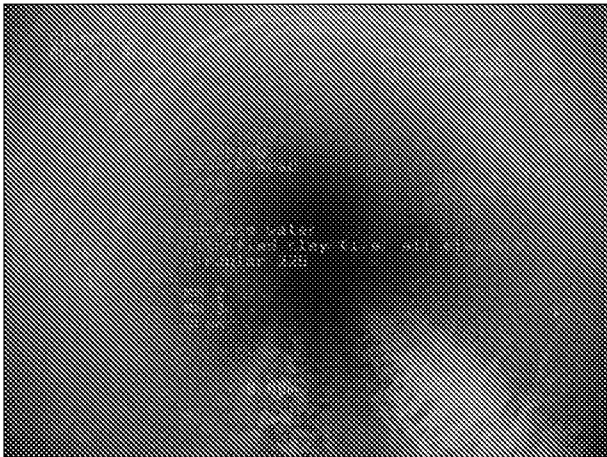
Place:
ClimpingRoad:
Church RoadDate:
25/08/2020section number:
3PLR:
MH 2 X

Photo: 14_1a
0m, Start node type, manhole, reference number: MH 2

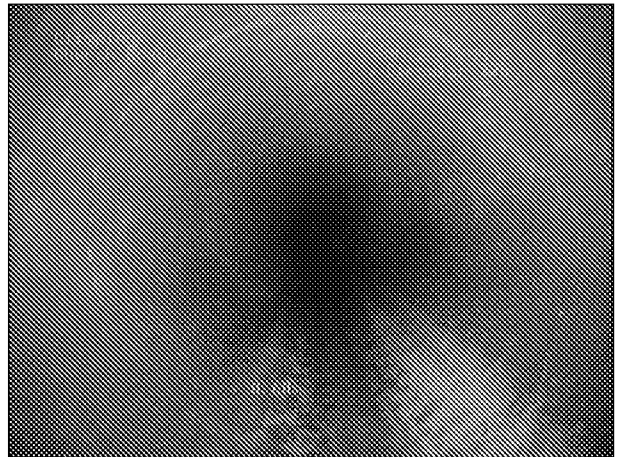


Photo: 16_3a
0.6m, Fracture Circumferential from 12 to 12 o'clock

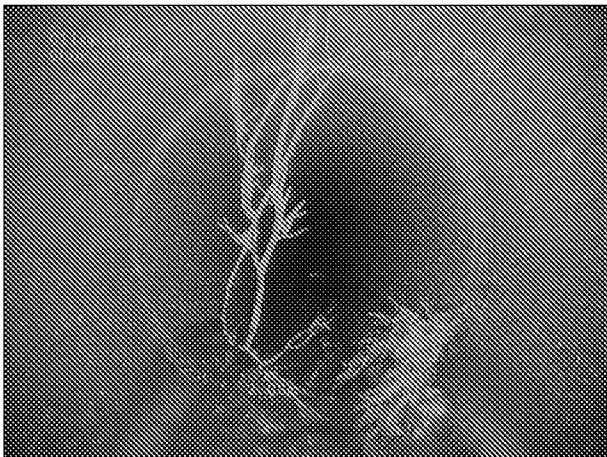


Photo: 17_4a
2.05m, Mass Roots at joint 15 % cross-sectional area loss



Photo: 18_5a
7.6m, Roots tap at joint



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
3

PLR:
MH 2 X

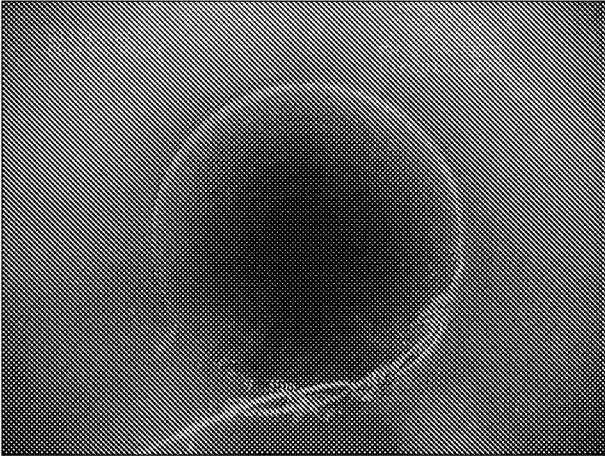


Photo: 19_6a
9.35m, Fine Roots at joint

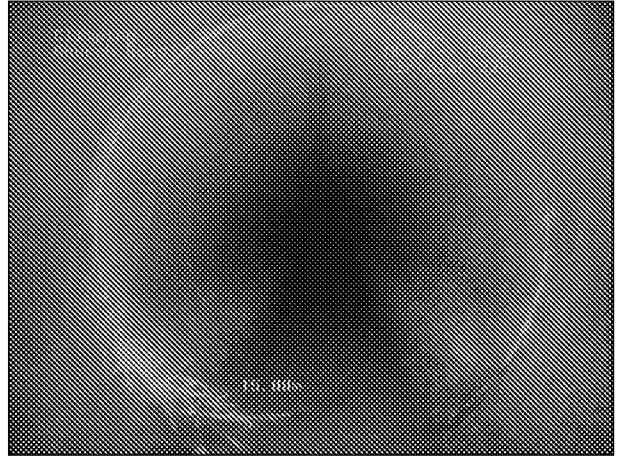


Photo: 20_7a
15.04m, Fine Roots at joint

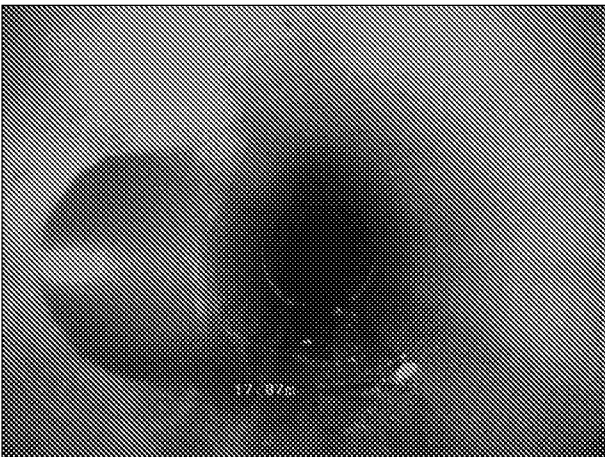


Photo: 21_8a
17.07m, Junction at 09 o'clock dia 150 mm

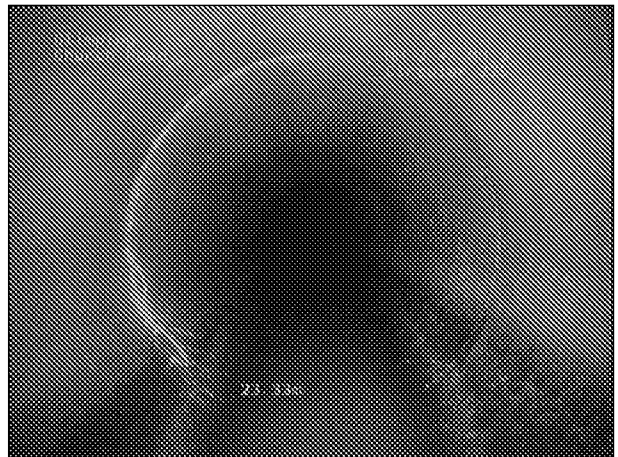


Photo: 22_9a
23.33m, Roots tap at joint



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
3

PLR:
MH 2 X

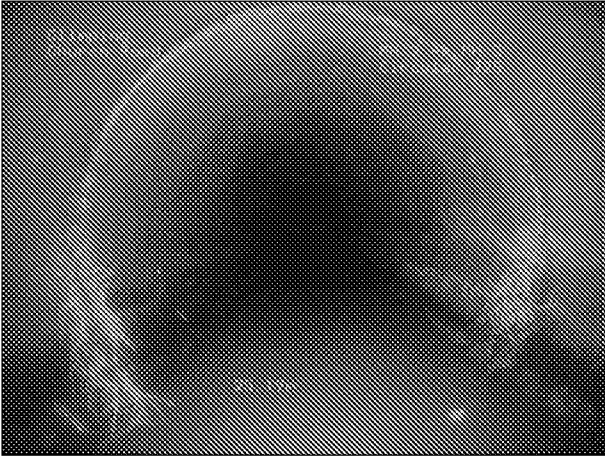


Photo: 23_10a
25.19m, Fine Roots at joint

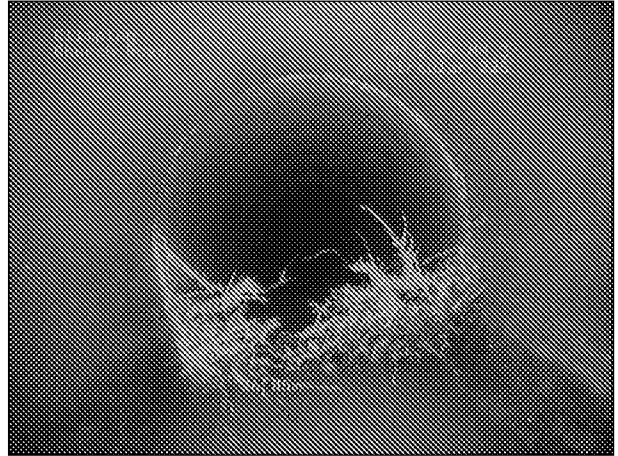


Photo: 24_11a
26.85m, Mass Roots at joint 25 % cross-sectional area loss

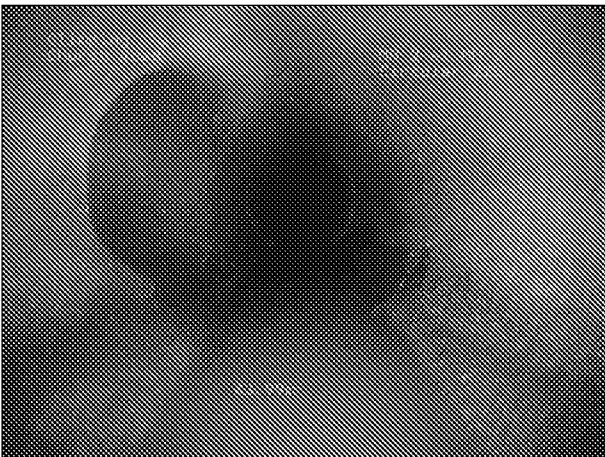


Photo: 25_12a
43.99m, Junction at 09 o'clock dia 150 mm

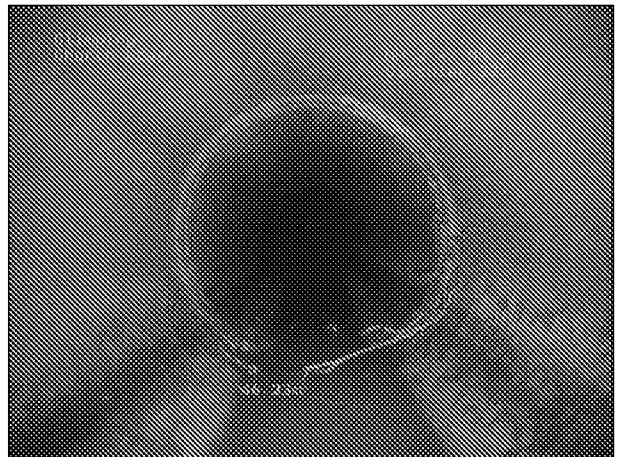


Photo: 26_13a
46.23m, Fine Roots at joint

**Inspection photos**Place:
ClimpingRoad:
Church RoadDate:
25/08/2020section number:
3PLR:
MH 2 X

Photo: 27_14a
48.27m, Roots tap at joint

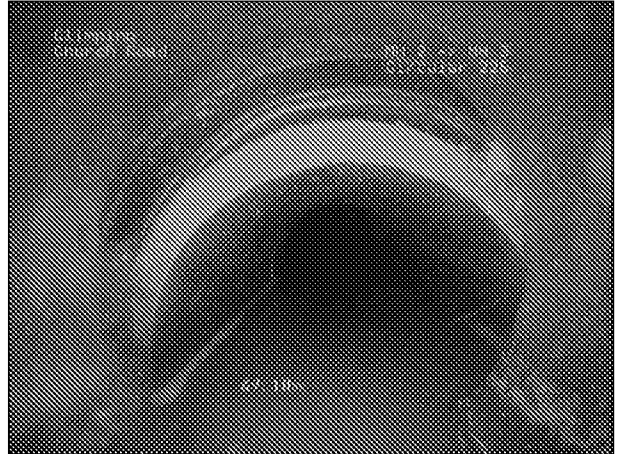


Photo: 28_15a
49.1m, Joint displaced large



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 4	PLR: MH 4 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road:	Church Road	Div/Dist:		start MH:	MH 1
Place:	Climping	Drain. Area:		end MH:	MH 4
Location:	Road	Standard:	BS EN 13508-2:2003	Total length:	12.33 m
Purpose:	Routine inspection of condition			Shape/Size:	Circular 225
Type:	Gravity drain/sewer			Material:	Vitrified clay (i.e. all clayware)
Use:	Surface water			Lining:	Pipe length:
Lining Type:					
Comment:					

1:100	position	code	observation	counter	photo	grade
	0.00	MH	Start node type, manhole, reference number: MH 1		30_1a	0
	0.00	WL	Water level 05 % height/diameter			0
	3.31	RTJ	Roots tap at joint		32_3a	2
	6.04	RT	Roots tap			2
	6.04	RM	Mass Roots 25 % cross-sectional area loss		34_5a	5
	12.33	MHF	Finish node type, manhole, reference number: MH 4		35_6a	
	/ Cover level: 5.566					



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
4

PLR:
MH 4 X



Photo: 30_1a
0m, Start node type, manhole, reference number: MH 1

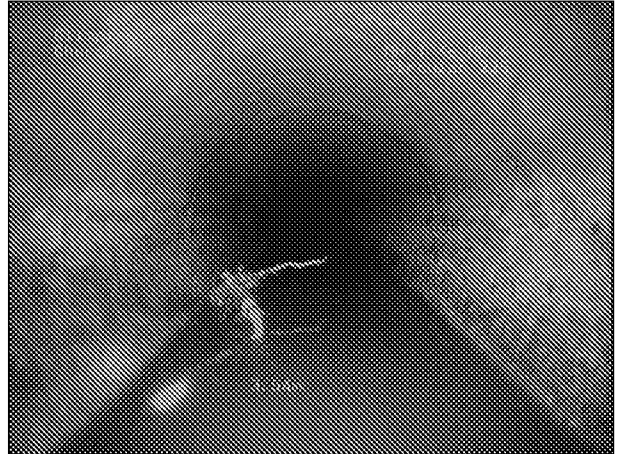


Photo: 32_3a
3.31m, Roots tap at joint

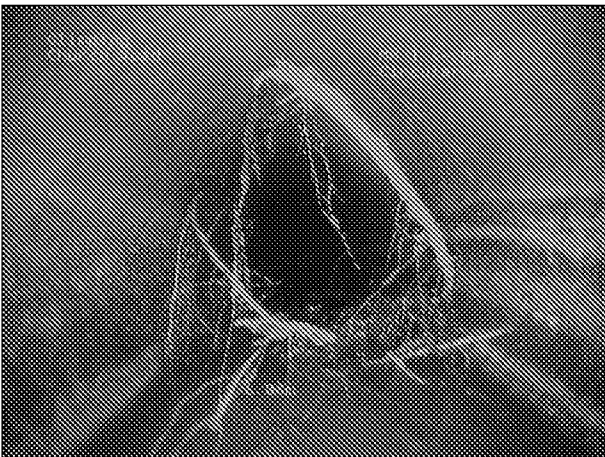


Photo: 34_5a
6.04m, Mass Roots 25 % cross-sectional area loss

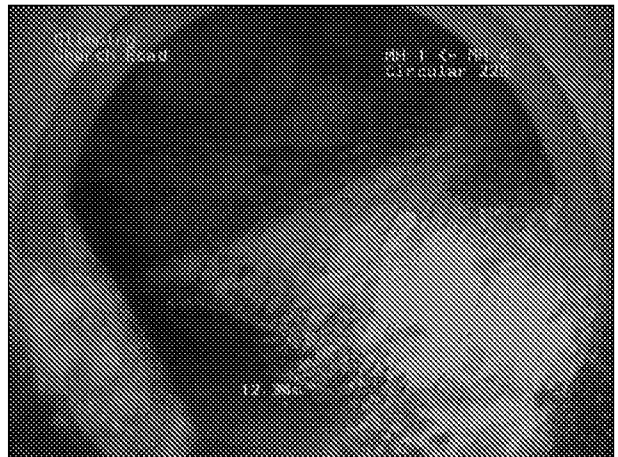


Photo: 35_6a
12.33m, Finish node type, manhole, reference number: MH 4



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 5	PLR: Gully 2 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 2
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 4.16 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:50	position	code	observation	counter	photo	grade
/ Cover level: 4.944						
	0.00	GY	Start node type, gully, reference number: Gully 2		36_1a	
	0.00	WL	Water level 05 % height/diameter			0
	1.08	HJ	Hole in sewer at joint from 12 to 02 o'clock		38_3a	4
	3.73	JDL	Joint displaced large		39_4a	2
	3.73	OJL	Open joint large			2
	4.16	BRF	Major connection without manhole		41_6a	0



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
5

PLR:
Gully 2 X

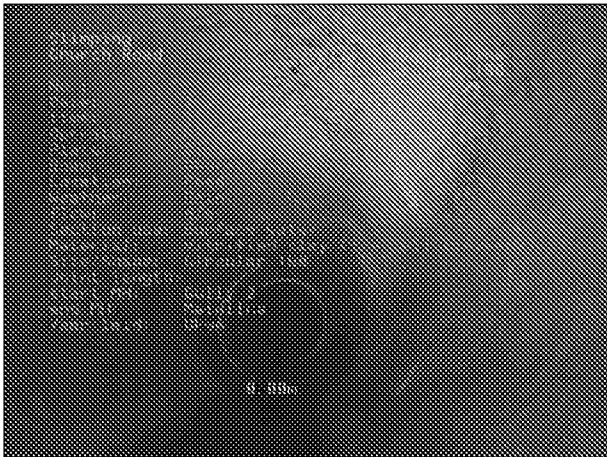


Photo: 36_1a
0m, Start node type, gully, reference number: Gully 2



Photo: 38_3a
1.08m, Hole in sewer at joint from 12 to 02 o'clock

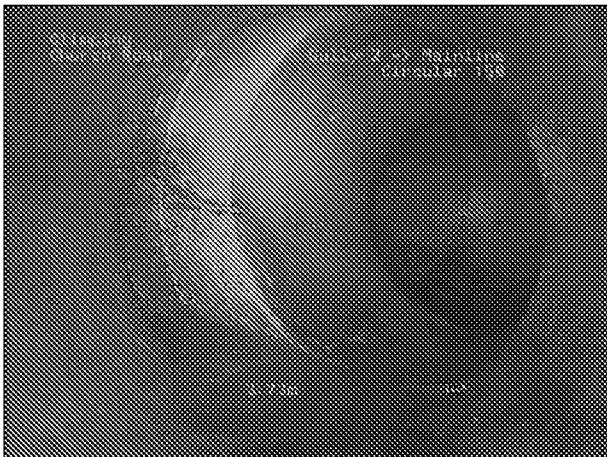


Photo: 39_4a
3.73m, Joint displaced large



Photo: 41_6a
4.16m, Major connection without manhole



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 6	PLR: Gully 3 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 3
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 3.69 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:50	position	code	observation	counter	photo	grade
/ Cover level: 4.591						
	0.00	GY	Start node type, gully, reference number: Gully 3		42_1a	
	0.00	WL	Water level 05 % height/diameter			0
	0.57	JDM	Joint displaced medium		44_3a	1
	3.39	LD	Line of drain/sewer deviates down			
	3.69	BRF	Major connection without manhole		46_5a	0



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
6

PLR:
Gully 3 X



Photo: 42_1a
0m, Start node type, gully, reference number: Gully 3

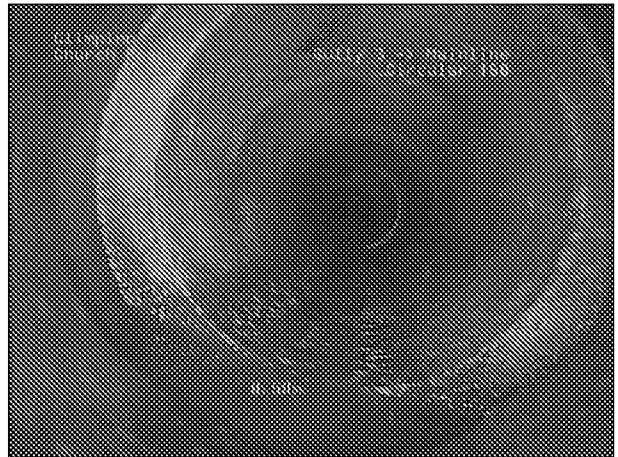


Photo: 44_3a
0.57m, Joint displaced medium



Photo: 46_5a
3.69m, Major connection without manhole



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 7	PLR: Gully 4 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 4
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 4.01 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:50	position	code	observation	counter	photo	grade
/ Cover level: 5.436						
	0.00	GY	Start node type, gully, reference number: Gully 4		47_1a	
	0.00	WL	Water level 05 % height/diameter			0
	3.99	JDL	Joint displaced large			2
	3.99	OJL	Open joint large		50_4a	2
	4.01	BRF	Major connection without manhole		51_5a	0



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
7

PLR:
Gully 4 X

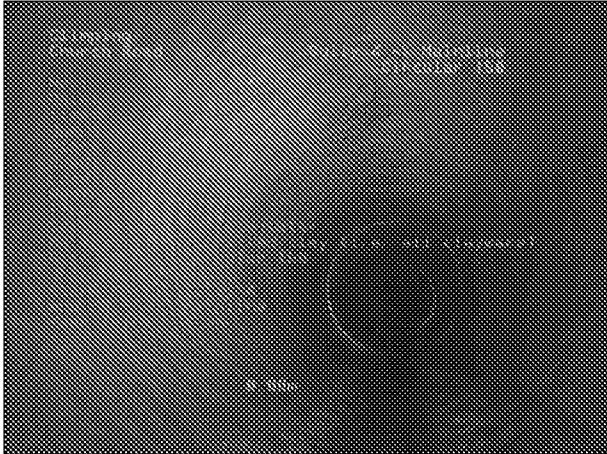


Photo: 47_1a
0m, Start node type, gully, reference number: Gully 4

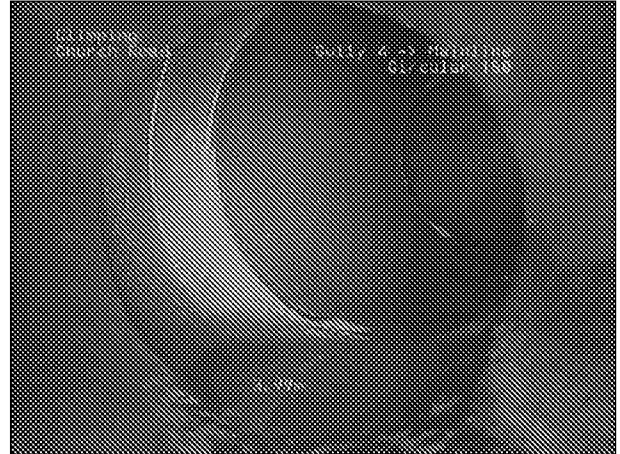


Photo: 50_4a
3.99m, Open joint large



Photo: 51_5a
4.01m, Major connection without manhole



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 8	PLR: Gully 5 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 5
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 2.44 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	Pipe length:
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	
Use: Surface water	Lining: 	
Lining Type: 		
Comment:		

1:25	position	code	observation	counter	photo	grade
/ Cover level: 4.005						
	0.00	GY	Start node type, gully, reference number: Gully 5		52_1a	
	0.00	WL	Water level 05 % height/diameter			0
	2.44	BRF	Major connection without manhole		54_3a	0



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
8

PLR:
Gully 5 X

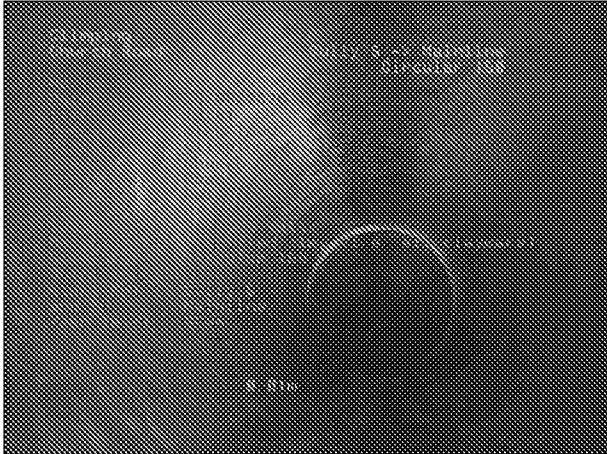


Photo: 52_1a
0m, Start node type, gully, reference number: Gully 5



Photo: 54_3a
2.44m, Major connection without manhole



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 9	PLR: Gully 6 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 6
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 1.64 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:25	position	code	observation	counter	photo	grade
/ Cover level: 3.534						
	0.00	GY	Start node type, gully, reference number: Gully 6		55_1a	
	0.00	WL	Water level 05 % height/diameter			0
	0.64	JDM	Joint displaced medium		57__3a	1
	1.64	BRF	Major connection without manhole		58_4a	0



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
9

PLR:
Gully 6 X



Photo: 55_1a
0m, Start node type, gully, reference number: Gully 6



Photo: 57_3a
0.64m, Joint displaced medium

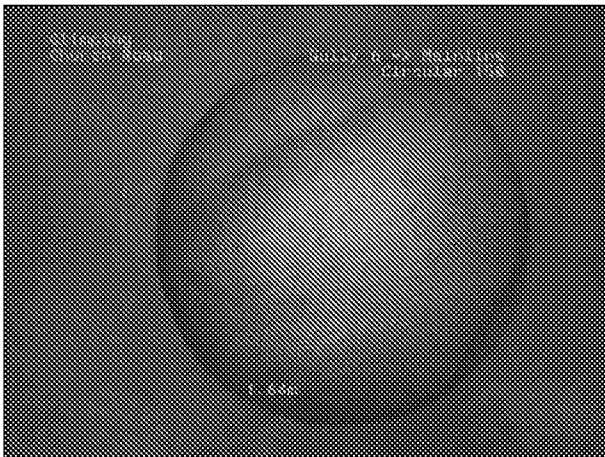


Photo: 58_4a
1.64m, Major connection without manhole



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 10	PLR: MH 2 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 3
Place: Climping	Drain. Area:	end MH: MH 2
Location: Road	Standard: BS EN 13508-2:2003	Total length: 0.8 m
Purpose: Routine inspection of condition	Shape/Size: Circular 225	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
	Lining Type:	

Comment:

1:25 position code observation counter photo grade

	0.00	MH	Start node type, manhole, reference number: MH 3		59_1a	0
	0.00	WL	Water level 05 % height/diameter			0
	0.77	B	Broken pipe from 04 to 07 o'clock			4
	0.78	CXI	Connection intruding at 03 o'clock dia 150 mm intrusion 40 %			4
	0.78	FC	Fracture Circumferential from 12 to 12 o'clock		65_5a	3
	0.80	SA	Survey abandoned, Remark: Due to intruding connection			1



Inspection photos

Place: Climping	Road: Church Road	Date: 25/08/2020	section number: 10	PLR: MH 2 X
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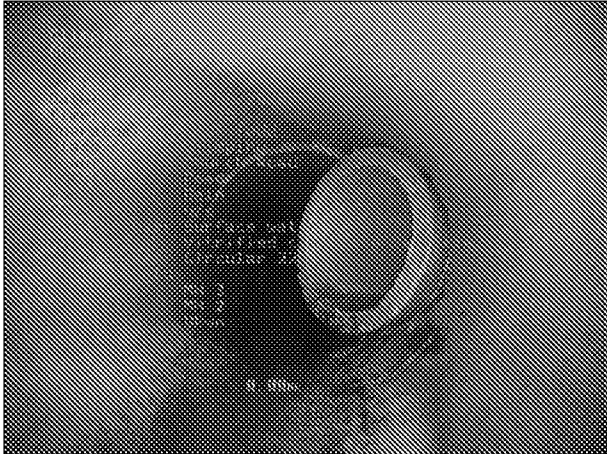


Photo: 59_1a
0m, Start node type, manhole, reference number: MH 3

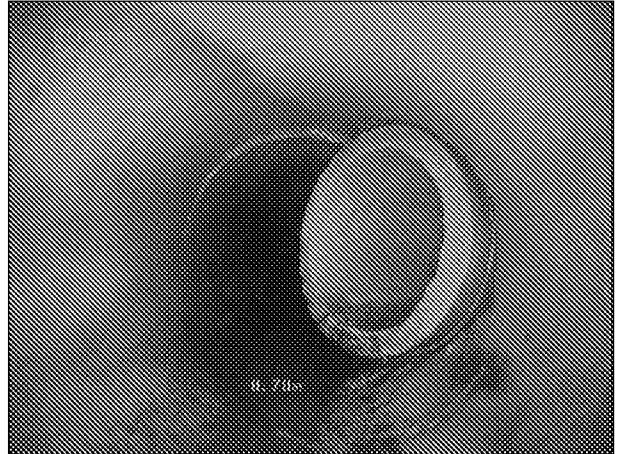


Photo: 63_5a
0.78m, Fracture Circumferential from 12 to 12 o'clock



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 11	PLR: MH 5 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 3
Place: Climping	Drain. Area:	end MH: MH 5
Location: Road	Standard: BS EN 13508-2:2003	Total length: 7.27 m
Purpose: Routine inspection of condition	Shape/Size: Circular 300	
Type: Gravity drain/sewer	Material: Concrete	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:75	position	code	observation	counter	photo	grade
	0.00	MH	Start node type, manhole, reference number: MH 3		65_1a	0
	0.00	WL	Water level 10 % height/diameter			0
	1.60	RFJ	Fine Roots at joint			1
	1.60	SS	Spalling at at 12 o'clock		68_4a	2
	3.47	RM	Mass Roots 10 % cross-sectional area loss		69_5a	5
	5.43	S1 RMJ	Mass Roots at joint 10 % cross-sectional area loss, Start			5
	7.27	RM	Mass Roots 90 % cross-sectional area loss			5
	7.27	SA	Survey abandoned, Remark: Due to mass roots		72_8a	1



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
11

PLR:
MH 5 X



Photo: 65_1a
0m, Start node type, manhole, reference number: MH 3



Photo: 68_4a
1.6m, Spalling at at 12 o'clock

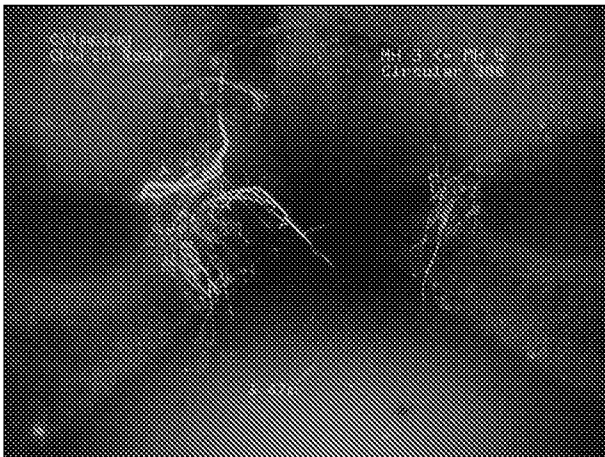


Photo: 69_5a
3.47m, Mass Roots 10 % cross-sectional area loss



Photo: 72_8a
7.27m, Survey abandoned, Remark: Due to mass roots



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 12	PLR: MH 3 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 3
Place: Climping	Drain. Area:	end MH: Outfall
Location: Road	Standard: BS EN 13508-2:2003	Total length: 52.21 m
Purpose: Routine inspection of condition	Shape/Size: Circular 450	
Type: Gravity drain/sewer	Material: Concrete	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:400	position	code	observation	counter	photo	grade
	0.00	MH	Start node type, manhole, reference number: MH 3		73_1a	0
	0.00	WL	Water level 05 % height/diameter			0
	1.94	S1	RFJ Fine Roots at joint, Start			1
	3.50	FC	Fracture Circumferential from 12 to 12 o'clock			3
	22.31	FM	Fractures multiple from 12 to 12 o'clock		78_5a	4
	34.11	MOPVC	Material of drain/sewer changes to Polyvinyl chloride		79_6a	
	52.21	SA	Survey abandoned, Remark: Due to silt under the water			1



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
12

PLR:
MH 3 X

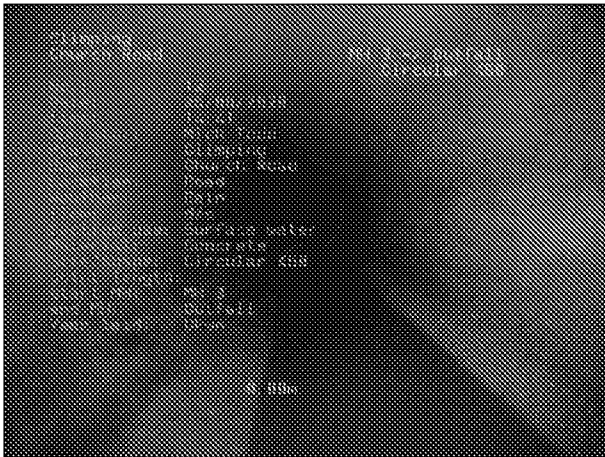


Photo: 73_1a
0m, Start node type, manhole, reference number: MH 3



Photo: 78_5a
22.81m, Fractures multiple from 12 to 12 o'clock

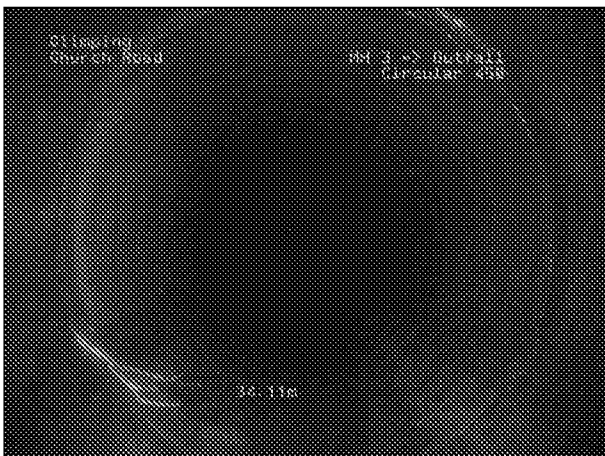


Photo: 79_6a
34.11m, Material of drain/sewer changes to Polyvinyl chloride



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 13	PLR: Gully 7 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 7
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 2.98 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	Pipe length:
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	
Use: Surface water	Lining: 	
Lining Type: 		
Comment:		

1:25	position	code	observation	counter	photo	grade
/ Cover level: 1.681						
	0.00	GY	Start node type, gully, reference number: Gully 7		81_1a	
	0.00	WL	Water level 05 % height/diameter			0
	0.99	RTJ	Roots tap at joint		83_3a	2
	1.65	RFJ	Fine Roots at joint		84_4a	1
	2.47	JDL	Joint displaced large			2
	2.47	LD	Line of drain/sewer deviates down			
	2.98	BRF	Major connection without manhole		87_7a	0



Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
13

PLR:
Gully 7 X

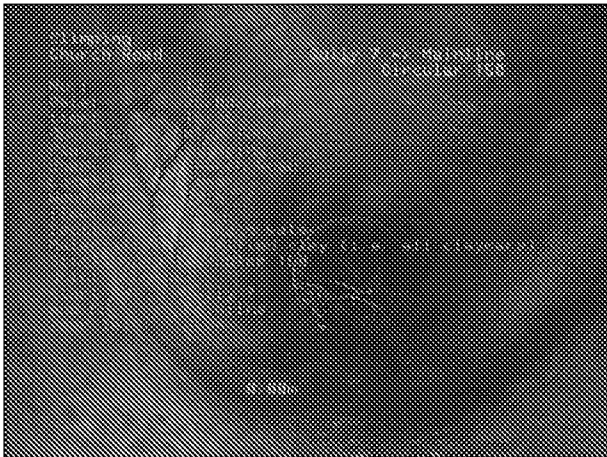


Photo: 81_1a
0m, Start node type, gully, reference number: Gully 7



Photo: 83_3a
0.99m, Roots tap at joint



Photo: 84_4a
1.65m, Fine Roots at joint



Photo: 87_7a
2.98m, Major connection without manhole



Inspection report

Date: 25/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 14	PLR: Gully 8 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 8
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 1.15 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:25	position	code	observation	counter	photo	grade
/ Cover level: 3.096						
	0.00	GY	Start node type, gully, reference number: Gully 8		88_1a	
	0.00	WL	Water level 05 % height/diameter			0
	0.79	JDM	Joint displaced medium		90_3a	1
	1.15	BRF	Major connection without manhole		91_4a	0

Inspection photos

Place:
Climping

Road:
Church Road

Date:
25/08/2020

section number:
14

PLR:
Gully 8 X

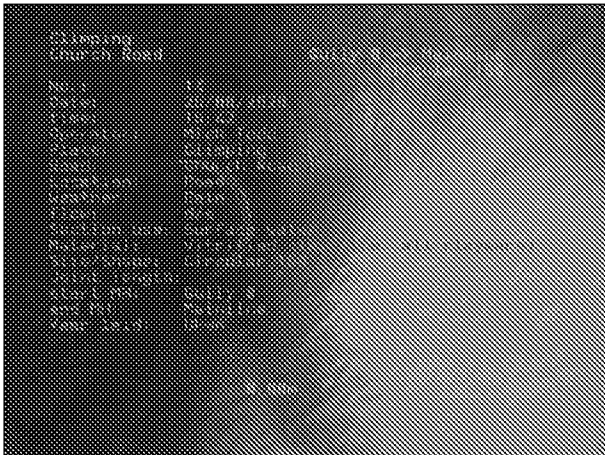


Photo: 88_1a
0m, Start node type, gully, reference number: Gully 8

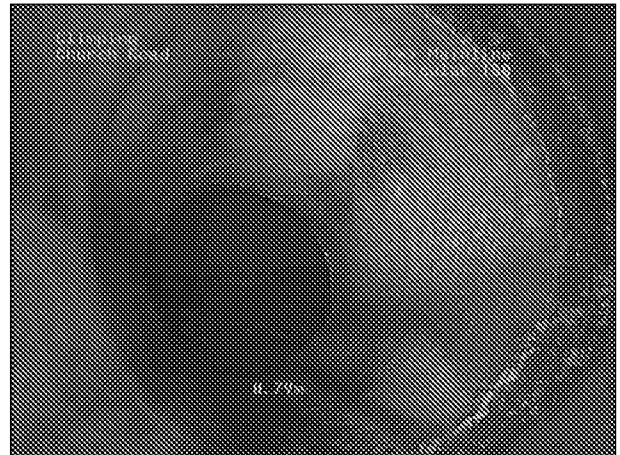


Photo: 90_3a
0.79m, Joint displaced medium



Photo: 91_4a
1.15m, Major connection without manhole



Inspection report

Date: 26/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 15	PLR: MH 5 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 5
Place: Climping	Drain. Area:	end MH: MH 3
Location: Road	Standard: BS EN 13508-2:2003	Total length: 8.63 m
Purpose: Routine inspection of condition	Shape/Size: Circular 300	
Type: Gravity drain/sewer	Material: Concrete	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:75	position	code	observation	counter	photo	grade
/ Cover level: 3.219						
	0.00	MH	Start node type, manhole, reference number: MH 5		92_1a	0
	0.00	WL	Water level 25 % height/diameter			0
	7.79	S1	DES Settled deposits fine 30 % cross-sectional area loss, Start		100_3a	1
	8.63	SA	Survey abandoned, Remark: Due to debris		15_4a	1



Inspection photos

Place:
Climping

Road:
Church Road

Date:
26/08/2020

section number:
15

PLR:
MH 5 X

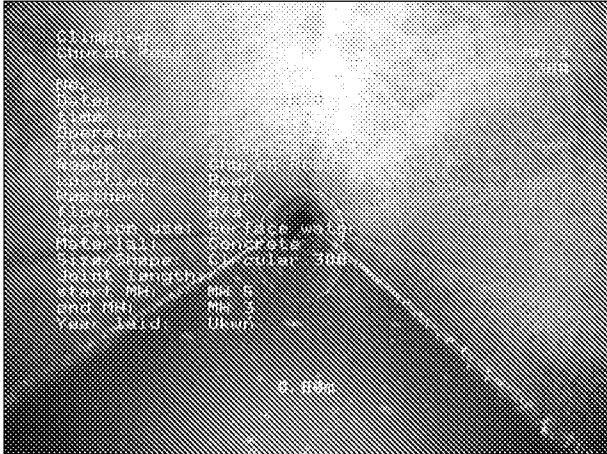


Photo: 92_1a
0m, Start node type, manhole, reference number: MH 5

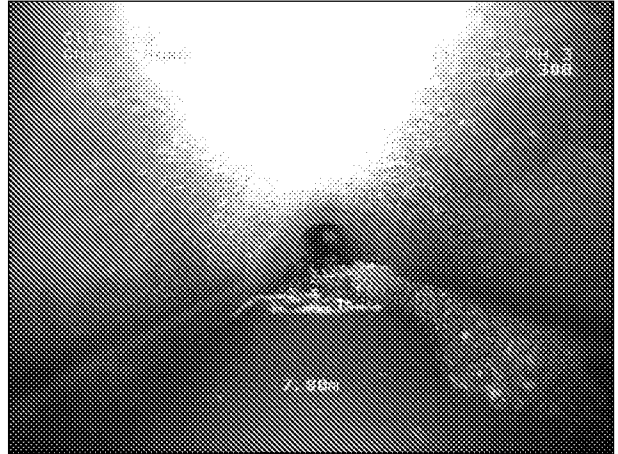


Photo: 100_3a
7.79m, Settled deposits fine 30 % cross-sectional area loss, Start



Photo: 15_4a
8.63m, Survey abandoned, Remark: Due to debris



Inspection report

Date: 26/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 16	PLR: Gully 13 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: Gully 13
Place: Climping	Drain. Area:	end MH: Mainline
Location: Road	Standard: BS EN 13508-2:2003	Total length: 3.8 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	Pipe length:
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:25	position	code	observation	counter	photo	grade
/ Cover level: 3.425						
	0.00	GY	Start node type, gully, reference number: Gully 13		95_1a	
	0.00	WL	Water level 05 % height/diameter			0
	2.26	OJM	Open joint medium		97_3a	1
	2.90	WL	Water level 50 % height/diameter		98_4a	0
	2.91	SA	Survey abandoned, Remark: Due to water level			1



Inspection photos

Place:
Climping

Road:
Church Road

Date:
26/08/2020

section number:
16

PLR:
Gully 13 X

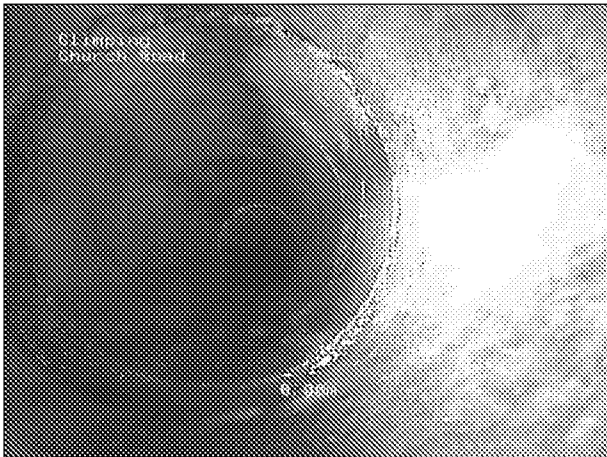


Photo: 95_1a
0m, Start node type, gully, reference number: Gully 13

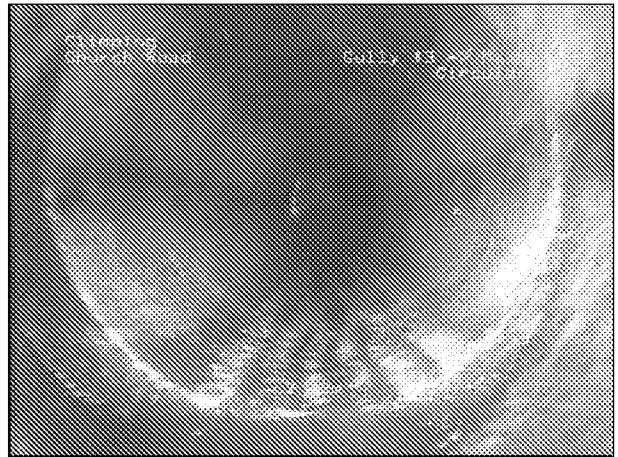


Photo: 97_3a
2.26m, Open joint medium



Photo: 98_4a
2.9m, Water level 50 % height/diameter



Inspection report

Date: 27/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 17	PLR: Gully 14 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 8
Place: Climping	Drain. Area:	end MH: Gully 14
Location: Road	Standard: BS EN 13508-2:2003	Total length: 10.83 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	Pipe length:
Type: Gravity drain/sewer	Material: Polyvinyl chloride	
Use: Surface water	Lining: 	
Lining Type: 		
Comment:		

1:100	position	code	observation	counter	photo	grade
/ Cover level: 2.059						
	0.00	CP	Start node type, catchpit, reference number: MH 8		101_1a	0
	0.00	WL	Water level 05 % height/diameter			0
	6.63	D	Deformed drain/sewer: 15 %		103_3a	S
	10.83	GYF	Finish node type, gully, reference number: Gully 14		104_4a	



Inspection photos

Place:
Climping

Road:
Church Road

Date:
27/08/2020

section number:
17

PLR:
Gully 14 X

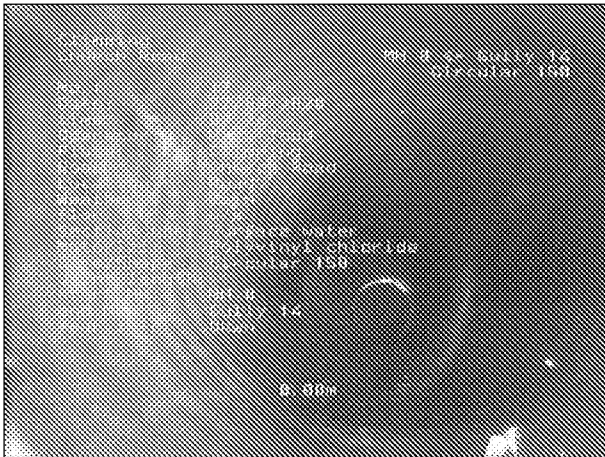


Photo: 101_1a
0m, Start node type, catchpit, reference number: MH 8



Photo: 103_3a
6.63m, Deformed drain/sewer 15 %



Photo: 104_4a
10.83m, Finish node type, gully, reference number: Gully 14

Road:	Church Road	Div/Dist:		start MH:	MH 8
Place:	Climping	Drain. Area:		end MH:	Gully 15
Location:	Road	Standard:	BS EN 13508-2:2003	Total length:	10.15 m
Purpose:	Routine inspection of condition		Shape/Size:	Circular 150	
Type:	Gravity drain/sewer		Material:	Polyvinyl chloride Pipe length:	
Use:	Surface water		Lining:		
			Lining Type:		
Comment:					

Church Lane CCTV Survey.mdb // page: 41



Inspection photos

Place:
Climping

Road:
Church Road

Date:
27/08/2020

section number:
18

PLR:
Gully 15 X



Photo: 105_1a
0m, Start node type, catchpit, reference number: MH 8



Photo: 107_3a
9.82m, Junction defective, connecting pipe is blocked at 03 o'clock, dia 150 mm

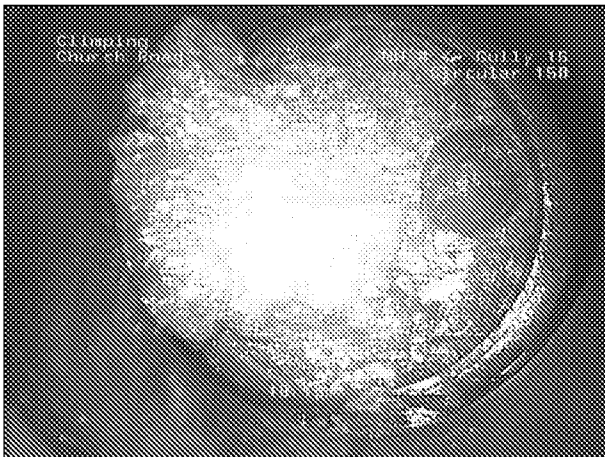


Photo: 108_4a
10.15m, Settled deposits fine 100 % cross-sectional area loss



Inspection report

Date: 27/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 19	PLR: Gully 17 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 8
Place: Climping	Drain. Area:	end MH: Gully 17
Location: Road	Standard: BS EN 13508-2:2003	Total length: 4.93 m
Purpose: Routine inspection of condition	Shape/Size: Circular 150	Pipe length:
Type: Gravity drain/sewer	Material: Polyvinyl chloride	
Use: Surface water	Lining: 	
Lining Type: 		
Comment:		

1:50	position	code	observation	counter	photo	grade
	0.00	CP	Start node type, catchpit, reference number: MH 8			0
	0.01	WL	Water level 05 % height/diameter			0
	4.93	GYF	Finish node type, gully, reference number: Gully 17		112_3a	

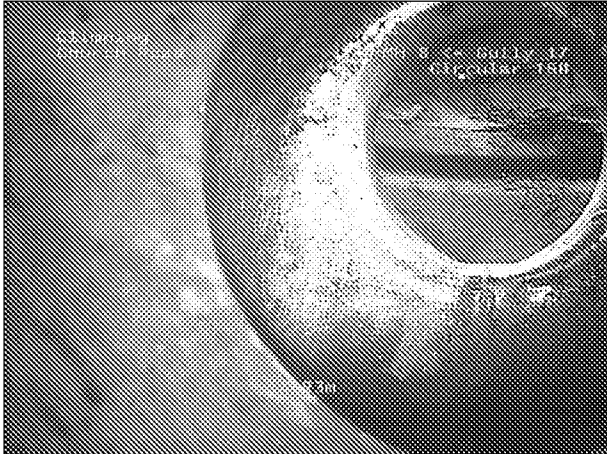
**Inspection photos**Place:
ClimpingRoad:
Church RoadDate:
27/08/2020section number:
19PLR:
Gully 17 X

Photo: 112_3a
4.93m, Finish node type, gully, reference number: Gully 17



Inspection report

Date: 27/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 20	PLR: MH 8 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Back Jetted	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 8
Place: Climping	Drain. Area:	end MH: MH 9
Location: Road	Standard: BS EN 13508-2:2003	Total length: 13.57 m
Purpose: Routine inspection of condition	Shape/Size: Circular 225	Pipe length:
Type: Gravity drain/sewer	Material: Polyvinyl chloride	
Use: Surface water	Lining: 	
Lining Type: 		
Comment:		

1:100	position	code	observation	counter	photo	grade
	0.00	CP	Start node type, catchpit, reference number: MH 8		113_1a	0
	0.00	WL	Water level 05 % height/diameter			0
	13.57	CPF	Finish Node type, catchpit, reference number: MH 9		115_3a	0
/ Cover level: 4.044						



Inspection photos

Place:
Climping

Road:
Church Road

Date:
27/08/2020

section number:
20

PLR:
MH 8 X

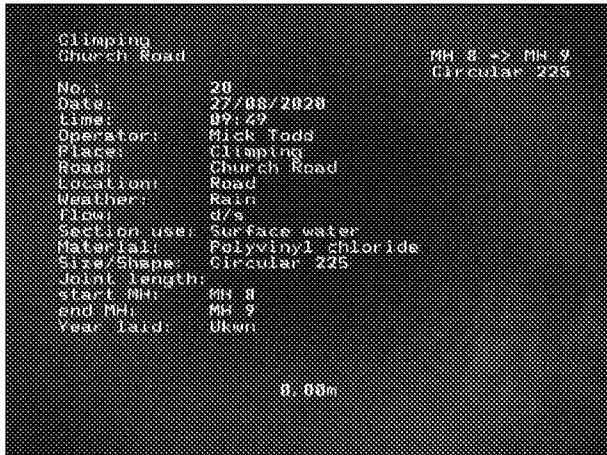


Photo: 113_1a
0m, Start node type, catchpit, reference number: MH 8



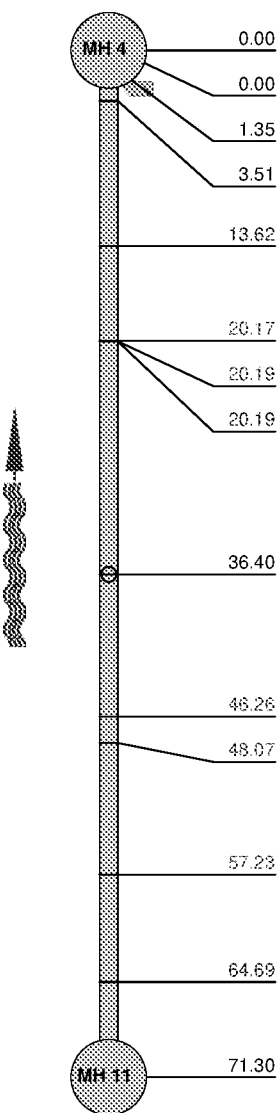
Photo: 115_3a
13.57m, Finish Node type, catchpit, reference number: MH 9



Inspection report

Date: 27/08/2020	Job N°: 1638.6AN	Weather: Rain	Operator: Mick Todd	section number: 21	PLR: MH 11 X
Video Volume No.:	Flow Ctrl: No flow control	Temperature: above freezing	Year laid: Ukwn	Cleaned: Yes	Strat. Drain:

Road: Church Road	Div/Dist:	start MH: MH 4
Place: Climping	Drain. Area:	end MH: MH 11
Location: Road	Standard: BS EN 13508-2:2003	Total length: 71.3 m
Purpose: Routine inspection of condition	Shape/Size: Circular 225	
Type: Gravity drain/sewer	Material: Vitrified clay (i.e. all clayware)	Pipe length:
Use: Surface water	Lining: 	
Lining Type:		
Comment:		

1:525	position	code	observation	counter	photo	grade
						
	0.00	MH	Start node type, manhole, reference number: MH 4		116_1a	0
	0.00	WL	Water level 10 % height/diameter			0
	1.35	JN	Junction at 10 o'clock dia 150 mm		118_3a	0
	3.51	WL	Water level 05 % height/diameter			0
	13.62	RTJ	Roots tap at joint		120_5a	2
	20.17	DES	Settled deposits fine 10 % cross-sectional area loss		121_6a	1
	20.19	RFJ	Fine Roots at joint			1
	20.19	RTJ	Roots tap at joint		123_8a	2
	36.40	JN	Junction at 11 o'clock dia 150 mm		124_9a	0
	46.26	RFJ	Fine Roots at joint		125_10a	1
	48.07	RFJ	Fine Roots at joint			1
	57.23	RFJ	Fine Roots at joint		127_12a	1
	64.69	RTJ	Roots tap at joint		128_13a	2
	71.30	MHF	Finish node type, manhole, reference number: MH 11		129_14a	
/ Cover level: 0.223						



Inspection photos

Place:
Climping

Road:
Church Road

Date:
27/08/2020

section number:
21

PLR:
MH 11 X

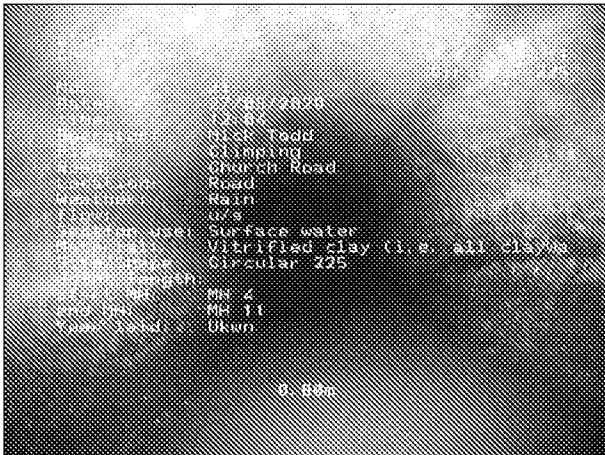


Photo: 116_1a
0m, Start node type, manhole, reference number: MH 4



Photo: 118_3a
1.35m, Junction at 10 o'clock dia 150 mm



Photo: 120_5a
13.62m, Roots tap at joint



Photo: 121_6a
20.17m, Settled deposits fine 10 % cross-sectional area loss



Inspection photos

Place:
Climping

Road:
Church Road

Date:
27/08/2020

section number:
21

PLR:
MH 11 X



Photo: 123_8a
20.19m, Roots tap at joint

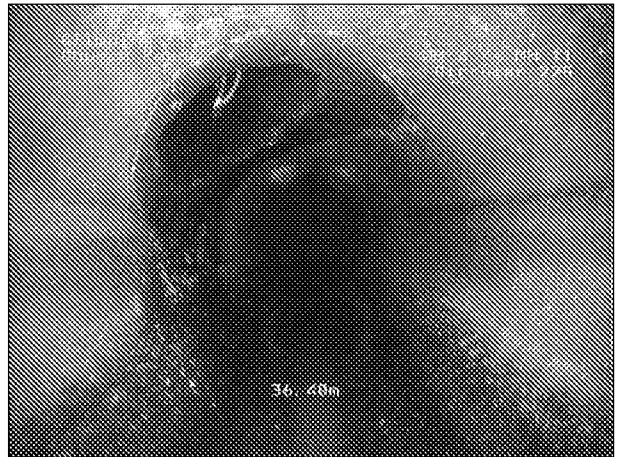


Photo: 124_9a
36.4m, Junction at 11 o'clock dia 150 mm

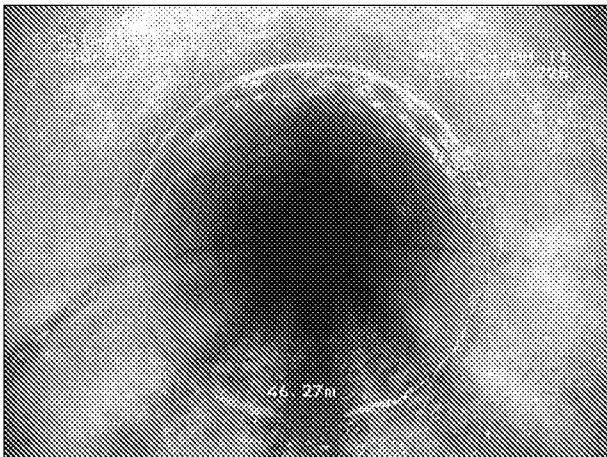


Photo: 125_10a
46.26m, Fine Roots at joint



Photo: 127_12a
57.23m, Fine Roots at joint



Inspection photos

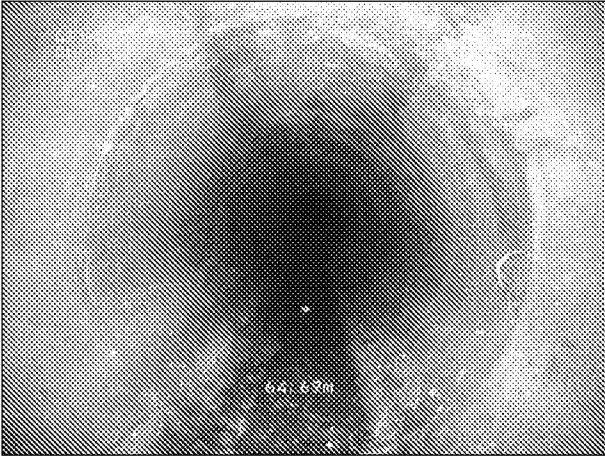
Place:
ClimpingRoad:
Church RoadDate:
27/08/2020section number:
21PLR:
MH 11 X

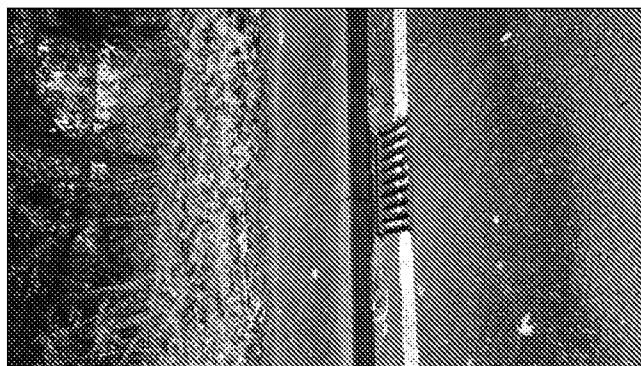
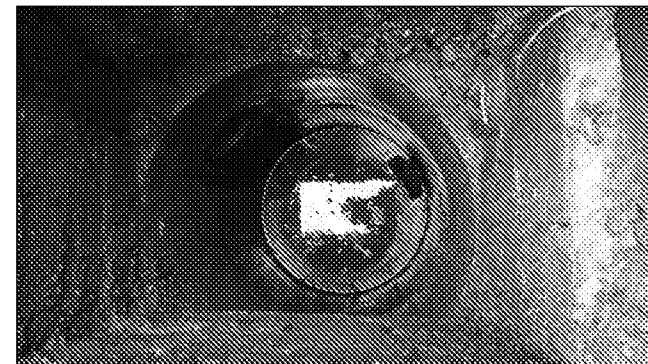
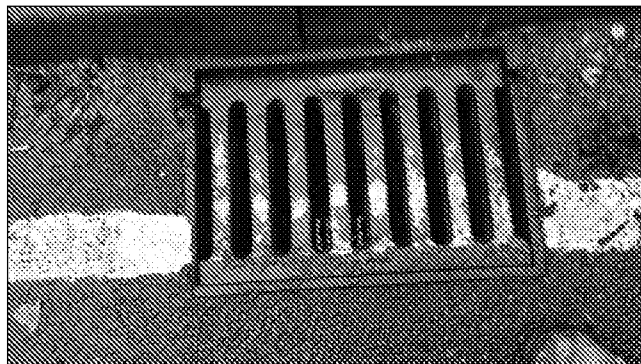
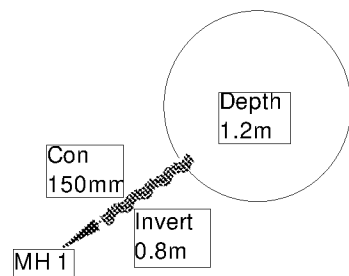
Photo: 128_13a
64.69m, Roots tap at joint



Photo: 129_14a
71.3m, Finish node type, manhole, reference number: MH 11

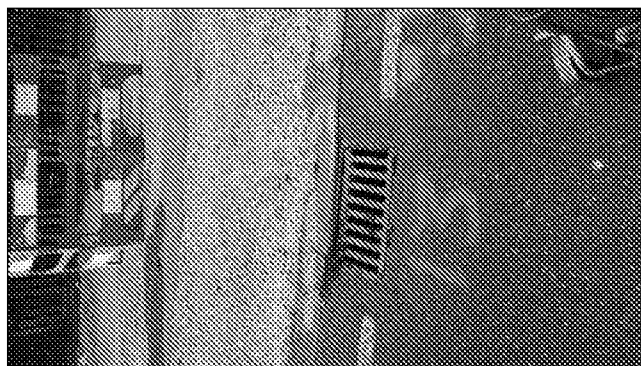
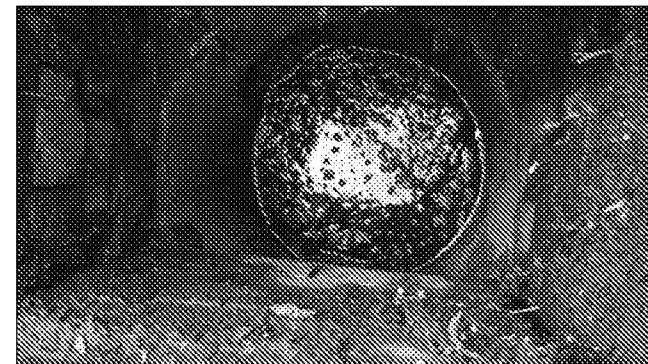
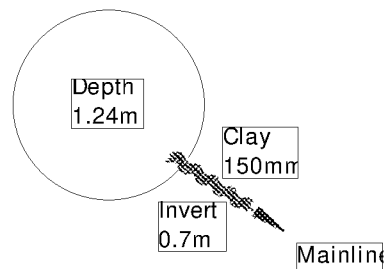
Gully Details										
Item Type	Gully		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020
Downstream Watercourse				Origin of Data	Internal Survey		Other Source			
Easting (m)	500408.885		Northing (m)	102082.685		Identifier			Asset Reference	
									Manhole	Gully 1
Ladder	No		Step Irons	No		Side Entry	No		Manhole Construction	Precast Concrete
									Number of Landings	0
Cover Level (m AOD)	5.564		Cover Shape	Rectangle		Other Shape			Cover Duty	Heavy
Cover Width (m)	0.52		Cover Length (m)	0.35		Manufacturer			Grating	Yes
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.45		Chamber Length (m)	0.45
Flap Valve	☒		Orifice	☒		Sluice Gate	☒		Weir	☒
									Screens	☒
									Penstock	☒
									Flume	☒
									Headwall	☒

[illegible]



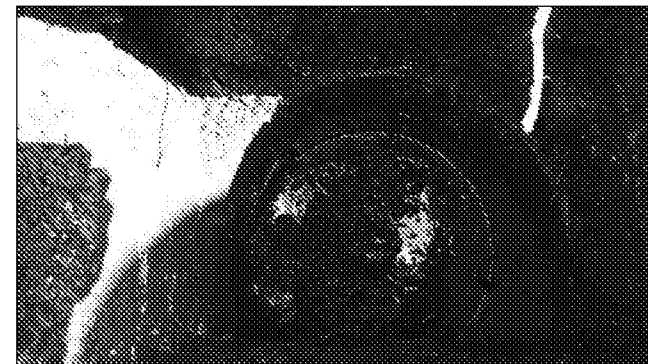
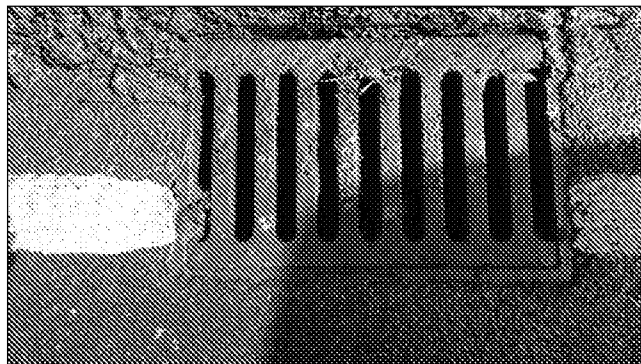
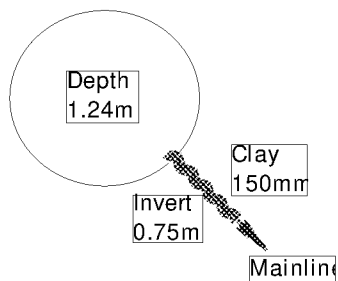
Gully Details																							
Item Type	Gully		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020													
Downstream Watercourse				Origin of Data	Internal Survey		Other Source																
Easting (m)	500303.774		Northing (m)	102384.948		Identifier			Asset Reference		Manhole	Gully 13											
Ladder	No		Step Irons	No		Side Entry	No		Manhole Construction	Precast Concrete		Number of Landings	0										
Cover Level (m AOD)	3.425		Cover Shape	Rectangle		Other Shape				Cover Duty	Heavy												
Cover Width (m)	0.52		Cover Length (m)	0.35		Manufacturer				Grating	Yes												
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.45		Chamber Length (m)	0													
Flap Valve	☒		Orifice	☒		Sluice Gate	☒		Weir	☒		Screens	☒		Penstock	☒		Flume	☒		Headwall	☒	

[illegible]



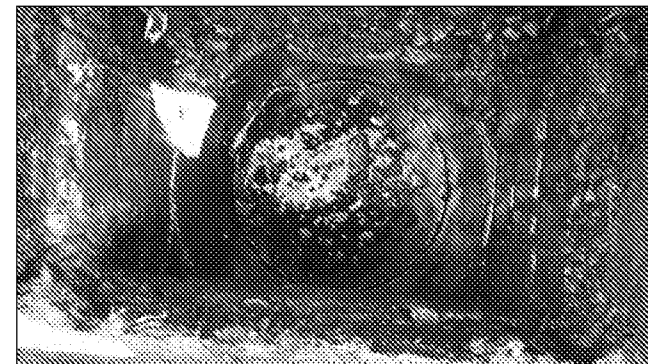
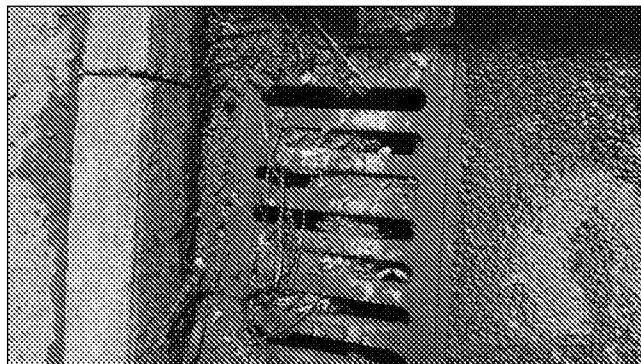
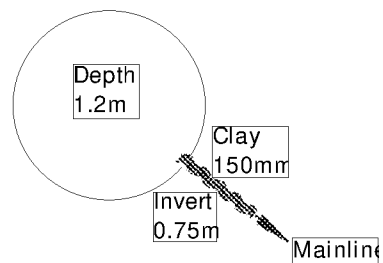
Gully Details																							
Item Type	Gully		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020													
Downstream Watercourse				Origin of Data	Internal Survey		Other Source																
Easting (m)	500398.423		Northing (m)	102114.604		Identifier			Asset Reference		Manhole	Gully 2											
Ladder	No		Step Irons	No		Side Entry	No		Manhole Construction	Precast Concrete		Number of Landings	0										
Cover Level (m AOD)	4.944		Cover Shape	Rectangle		Other Shape				Cover Duty	Heavy												
Cover Width (m)	0.52		Cover Length (m)	0.35		Manufacturer				Grating	Yes												
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.45		Chamber Length (m)	0													
Flap Valve	☐		Orifice	☐		Sluice Gate	☐		Weir	☐		Screens	☐		Penstock	☐		Flume	☐		Headwall	☐	

[illegible]



Gully Details										
Item Type	Gully		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020
Downstream Watercourse				Origin of Data	Internal Survey		Other Source			
Easting (m)	500389.818		Northing (m)	102140.175		Identifier			Asset Reference	
									Manhole	Gully 3
Ladder	No		Step Irons	No		Side Entry	No		Manhole Construction	Precast Concrete
									Number of Landings	0
Cover Level (m AOD)	4.591		Cover Shape	Rectangle		Other Shape			Cover Duty	Heavy
Cover Width (m)	0.52		Cover Length (m)	0.35		Manufacturer			Grating	Yes
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.45		Chamber Length (m)	0
Flap Valve	☒		Orifice	☒		Sluice Gate	☒		Weir	☒
									Screens	☒
									Penstock	☒
									Flume	☒
									Headwall	☒

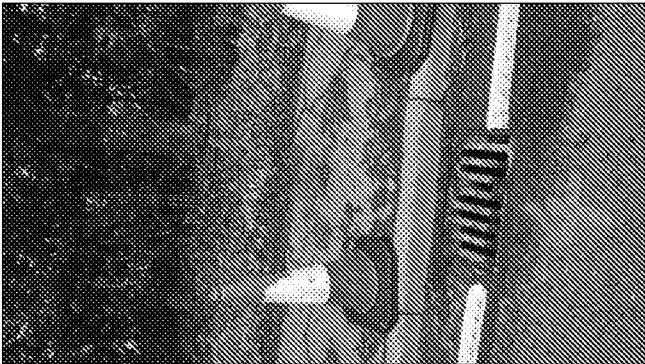
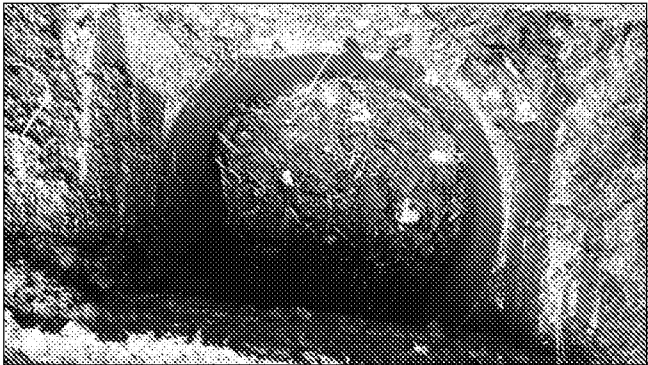
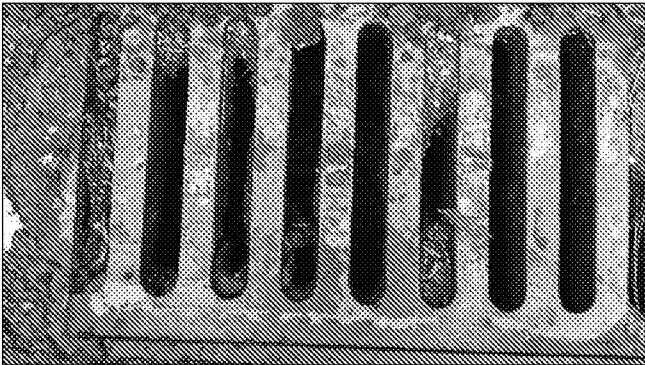
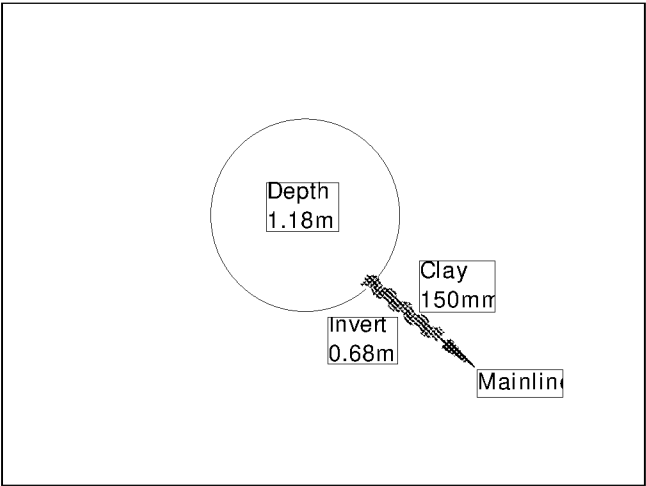
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Gully Details										
Item Type	Gully		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020
Downstream Watercourse				Origin of Data	Internal Survey		Other Source			
Easting (m)	500382.272		Northing (m)	102162.204		Identifier			Asset Reference	
									Manhole	Gully 4
Ladder	No		Step Irons	No		Side Entry	No		Manhole Construction	Precast Concrete
									Number of Landings	0
Cover Level (m AOD)	5.436		Cover Shape	Rectangle		Other Shape			Cover Duty	Heavy
Cover Width (m)	0.52		Cover Length (m)	0.35		Manufacturer			Grating	Yes
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.45		Chamber Length (m)	0
Flap Valve	☒		Orifice	☒		Sluice Gate	☒		Weir	☒
									Screens	☒
									Penstock	☒
									Flume	☒
									Headwall	☒

[illegible]

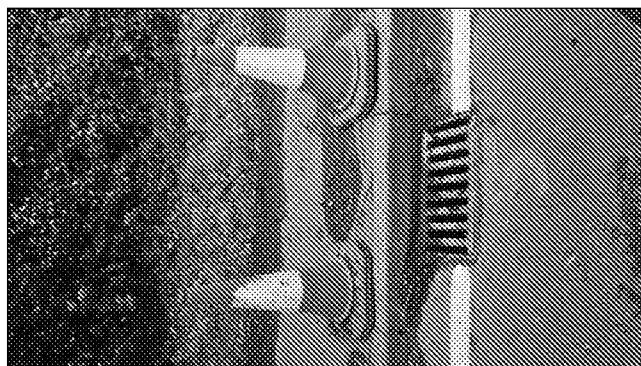
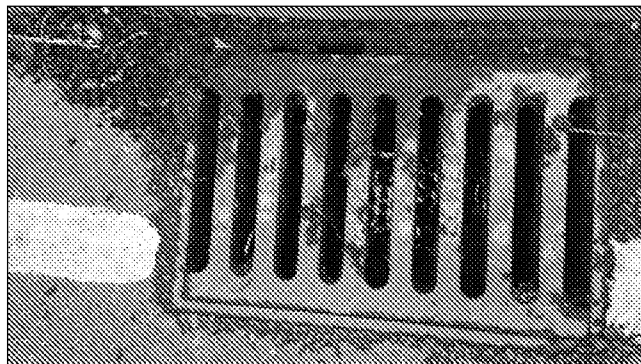
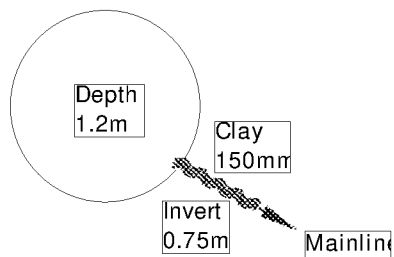
Gully 4



Gully Details

Item Type	Gully	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020
Downstream Watercourse		Origin of Data	Internal Survey	Other Source			
Easting (m)	500373.731	Northing (m)	102189.917	Identifier		Asset Reference	
Manhole	Gully 5						
Ladder	No	Step Irons	No	Side Entry	No	Manhole Construction	Precast Concrete
Number of Landings	0						
Cover Level (m AOD)	4.005	Cover Shape	Rectangle	Other Shape			Cover Duty
Cover Width (m)	0.52	Cover Length (m)	0.35	Manufacturer			Grating
Grating	Yes						
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	0.45	Chamber Length (m)	0
Flap Valve	☒	Orifice	☒	Sluice Gate	☒	Weir	☒
Screens	☒	Penstock	☒	Flume	☒	Headwall	☒

Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/From	To	
		0.0											

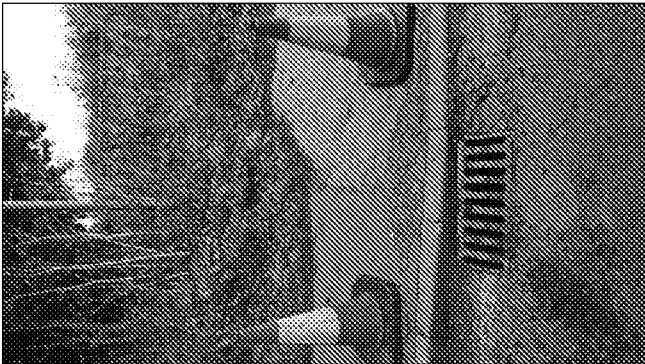
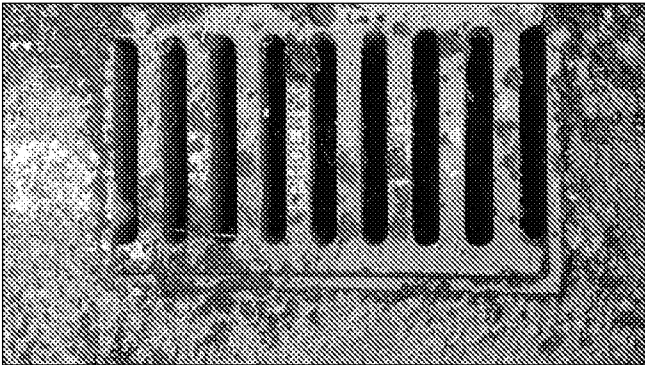
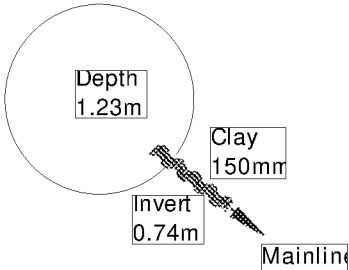


Gully Details

Item Type	Gully	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020
Downstream Watercourse		Origin of Data	Internal Survey	Other Source			
Easting (m)	500367.466	Northing (m)	102210.324	Identifier		Asset Reference	
						Manhole	Gully 6
Ladder	No	Step Irons	No	Side Entry	No	Manhole Construction	Precast Concrete
						Number of Landings	0
Cover Level (m AOD)	3.534	Cover Shape	Rectangle	Other Shape			Cover Duty
							Heavy
Cover Width (m)	0.52	Cover Length (m)	0.32	Manufacturer			Grating
							Yes
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	0.45	Chamber Length (m)	0
Flap Valve	☒	Orifice	☒	Sluice Gate	☒	Weir	☒
						Screens	☒
						Penstock	☒
						Flume	☒
						Headwall	☒

Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/ From	To	
		0.0											

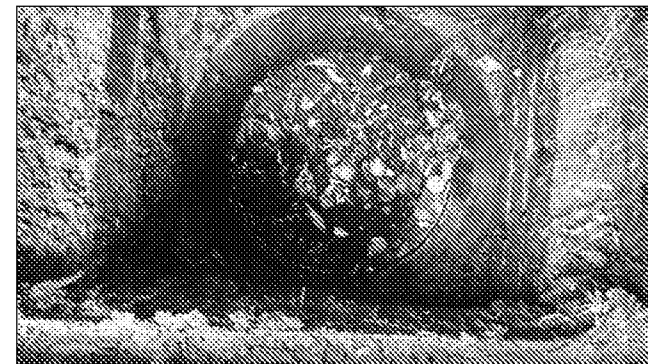
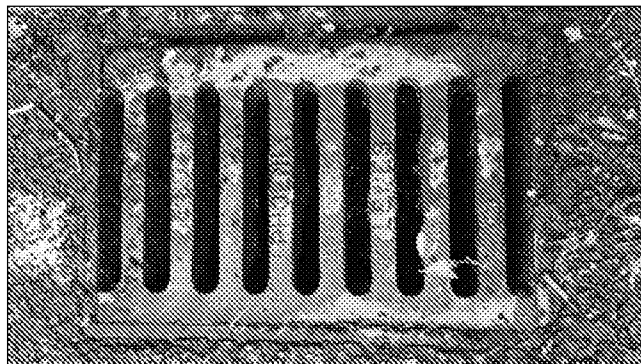
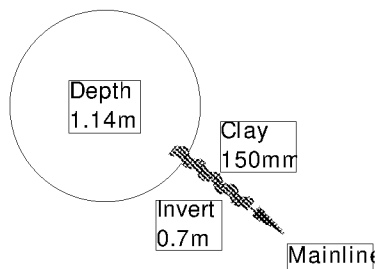
Gully 6



Gully Details

Item Type	Gully	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020
Downstream Watercourse		Origin of Data	Internal Survey	Other Source			
Easting (m)	500358.69	Northing (m)	102240.932	Identifier		Asset Reference	
						Manhole	Gully 7
Ladder	No	Step Irons	No	Side Entry	No	Manhole Construction	Precast Concrete
						Number of Landings	0
Cover Level (m AOD)	1.681	Cover Shape	Rectangle	Other Shape			Cover Duty
							Heavy
Cover Width (m)	0.52	Cover Length (m)	0.35	Manufacturer			Grating
							Yes
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	0.45	Chamber Length (m)	0
Flap Valve	☒	Orifice	☒	Sluice Gate	☒	Weir	☒
						Screens	☒
						Penstock	☒
						Flume	☒
						Headwall	☒

Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/From	To	
		0.0											



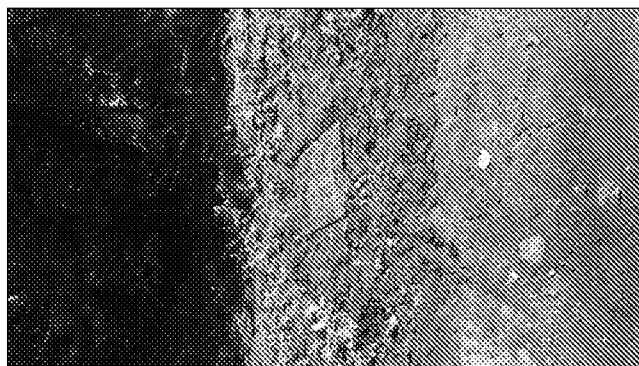
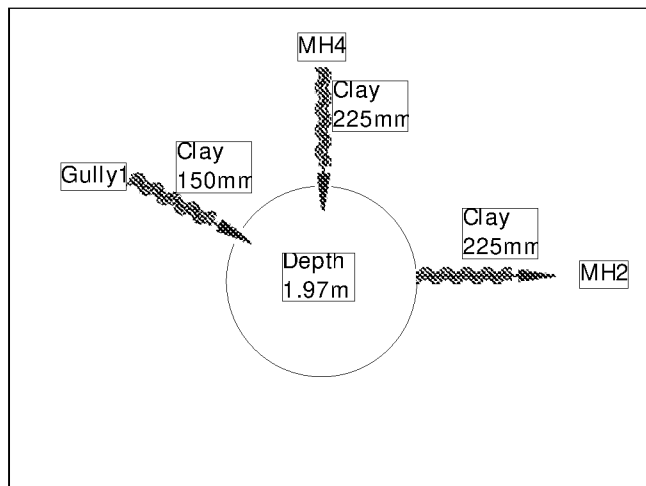
Gully Details

Item Type	Gully	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020
Downstream Watercourse		Origin of Data	Internal Survey	Other Source			
Easting (m)	500351.765	Northing (m)	102262.151	Identifier		Asset Reference	
Manhole	Gully 8						
Ladder	No	Step Irons	No	Side Entry	No	Manhole Construction	Precast Concrete
Number of Landings	0						
Cover Level (m AOD)	3.096	Cover Shape	Rectangle	Other Shape			Cover Duty
Heavy							
Cover Width (m)	0.52	Cover Length (m)	0.35	Manufacturer			Grating
No							
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	0.45	Chamber Length (m)	0
Flap Valve	☒	Orifice	☒	Sluice Gate	☒	Weir	☒
Screens	☒	Penstock	☒	Flume	☒	Headwall	☒

Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/ From	To	
		0.0											

Manhole Details															
Item Type	Manhole		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020					
Downstream Watercourse				Origin of Data	Internal Survey		Other Source								
Easting (m)	500410.43		Northing (m)	102086.702		Identifier		Asset Reference							
									Manhole	MH 1					
Ladder	No	Step Irons	4	Side Entry	No	Manhole Construction	Precast Concrete		Number of Landings	0					
Cover Level (m AOD)	5.491		Cover Shape	Rectangle		Other Shape			Cover Duty	Heavy					
Cover Width (m)	0.675		Cover Length (m)	0.525		Manufacturer			Grating	No					
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.9		Chamber Length (m)	0					
Flap Valve	No	Orifice	No	Sluice Gate	No	Weir	No	Screens	No	Penstock	No	Flume	No	Headwall	☒

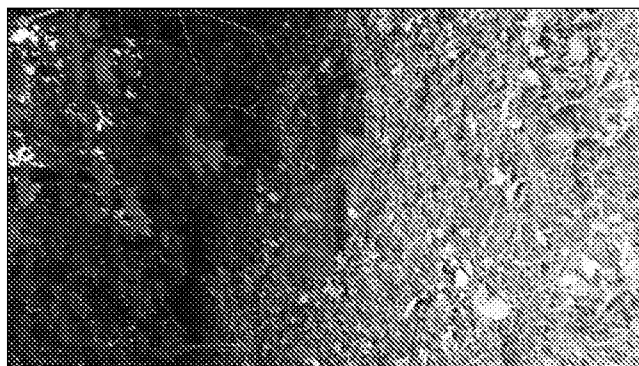
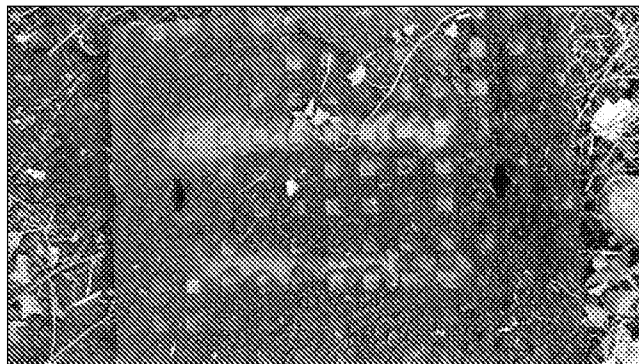
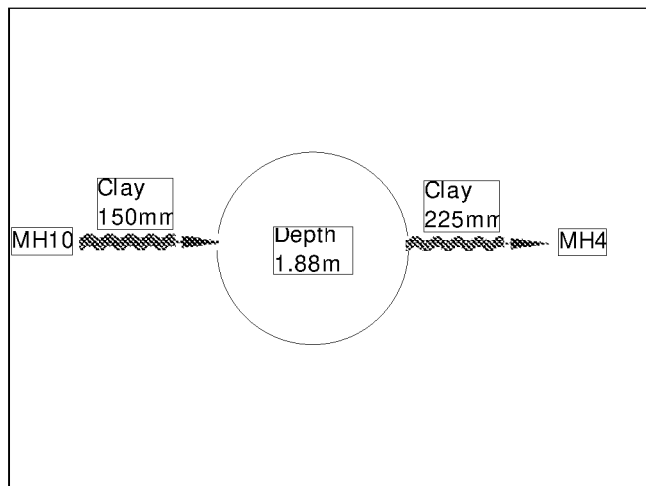
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Manhole Details

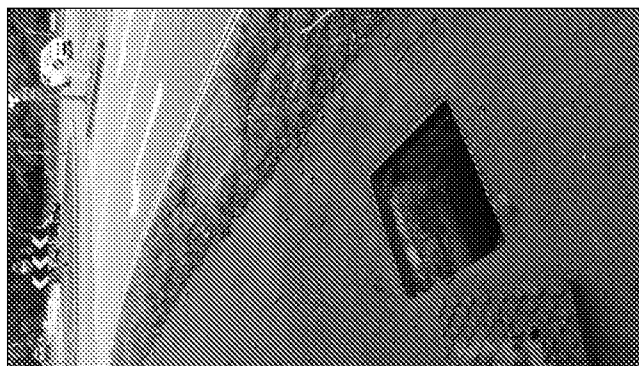
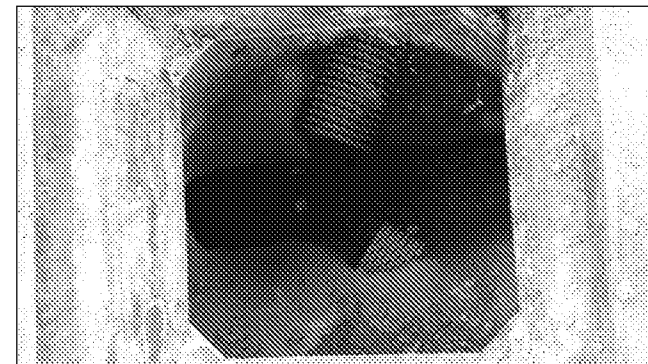
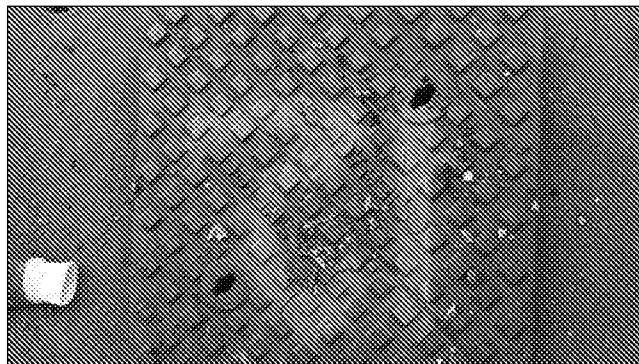
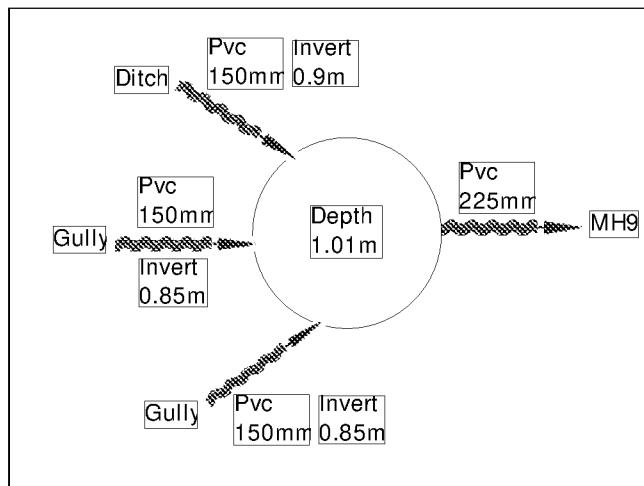
Item Type	Manhole	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020
Downstream Watercourse		Origin of Data	Internal Survey	Other Source			
Easting (m)	500417.134	Northing (m)	102020.597	Identifier		Asset Reference	
						Manhole	MH 11
Ladder	No	Step Irons	4	Side Entry	No	Manhole Construction	Precast Concrete
						Number of Landings	0
Cover Level (m AOD)	0.223	Cover Shape	Rectangle	Other Shape			Cover Duty
							Heavy. Offset from manhole
Cover Width (m)	0.625	Cover Length (m)	0.525	Manufacturer			Grating
							Yes
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	0.9	Chamber Length (m)	0
Flap Valve	No	Orifice	No	Sluice Gate	No	Weir	No
						Screens	No
						Penstock	No
						Flume	No
						Headwall	☒

Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/ From	To	
		0.0											



Catchpit Details															
Item Type	Catchpit	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020								
Downstream Watercourse		Origin of Data	Internal Survey	Other Source											
Easting (m)	500422.767	Northing (m)	101932.694	Identifier		Asset Reference		Manhole	MH 12						
Ladder	No	Step Irons	No	Side Entry	No	Manhole Construction	Precast Concrete	Number of Landings	0						
Cover Level (m AOD)	6.022	Cover Shape	Square	Other Shape		Cover Duty	Heavy								
Cover Width (m)	0.6	Cover Length (m)	0.6	Manufacturer		Grating	No								
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	0.9	Chamber Length (m)	0								
Flap Valve	☒	Orifice	☒	Sluice Gate	☒	Weir	☒	Screens	☒	Penstock	☒	Flume	☒	Headwall	☒

[illegible]

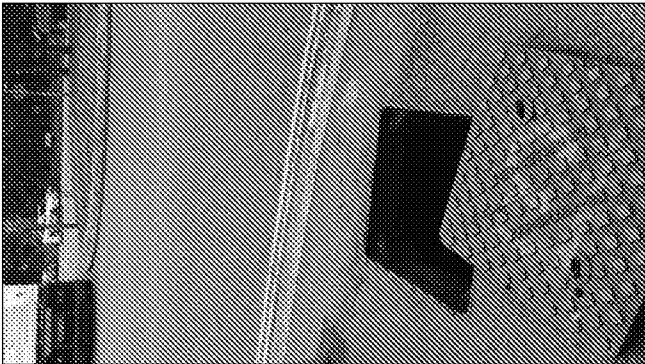
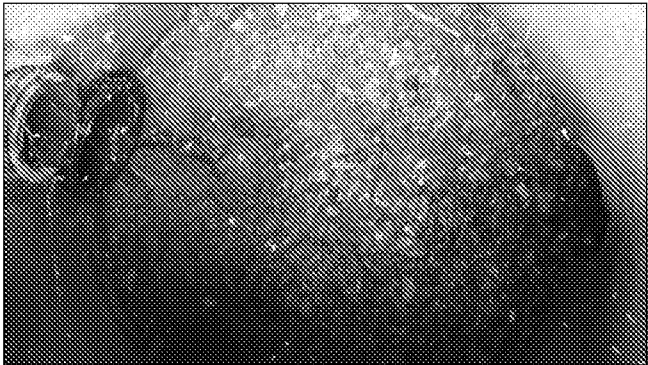
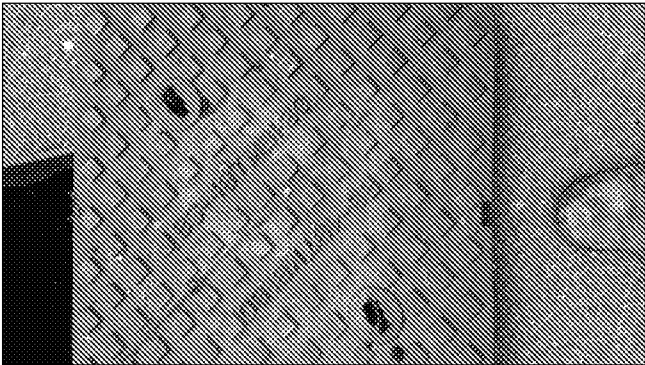
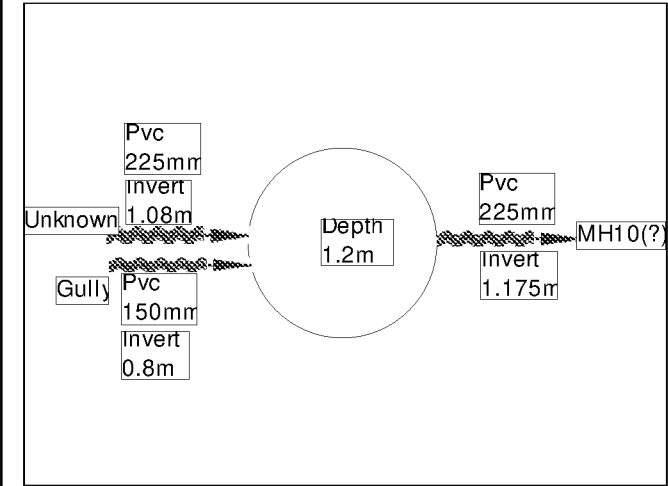


Catchpit Details

Item Type	Catchpit	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020
Downstream Watercourse		Origin of Data	Internal Survey	Other Source			
Easting (m)	500459.908	Northing (m)	101952.702	Identifier		Asset Reference	
Ladder	No	Step Irons	No	Side Entry	No	Manhole Construction	Precast Concrete
						Number of Landings	0
Cover Level (m AOD)	4.139	Cover Shape	Square	Other Shape			Cover Duty
							Heavy
Cover Width (m)	0.6	Cover Length (m)	0.6	Manufacturer			Grating
							No
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	1.05	Chamber Length (m)	0
Flap Valve	☒	Orifice	☒	Sluice Gate	☒	Weir	☒
						Screens	☒
						Penstock	☒
						Flume	☒
						Headwall	☒

Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/ From	To	
		0.0											

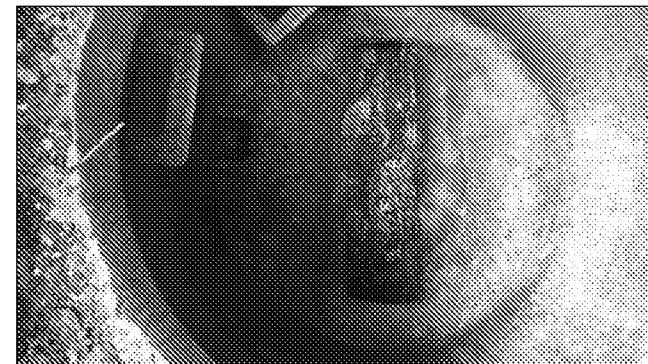
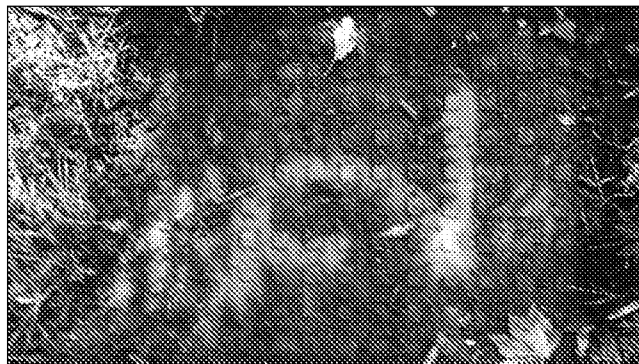
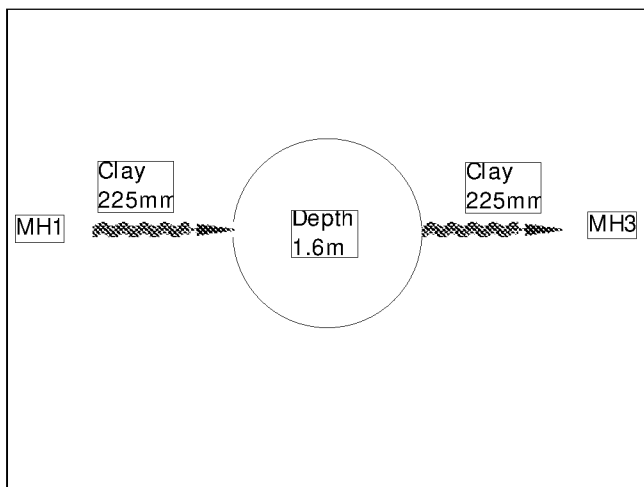
MH 13



Manhole Details

Item Type	Manhole	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020
Downstream Watercourse		Origin of Data	Internal Survey	Other Source			
Easting (m)	500388.651	Northing (m)	0	Identifier		Asset Reference	
Ladder	No	Step Irons	3	Side Entry	No	Manhole Construction	Precast Concrete
Cover Level (m AOD)	5.14	Cover Shape	Rectangle	Other Shape			Number of Landings
Cover Width (m)	0.675	Cover Length (m)	0.525	Manufacturer			Grating
Shaft Width (m)	0	Shaft Length (m)	0	Chamber Width (m)	0.9	Chamber Length (m)	0
Flap Valve	No	Orifice	No	Sluice Gate	No	Weir	No
Screens	No	Penstock	No	Flume	No	Headwall	☒

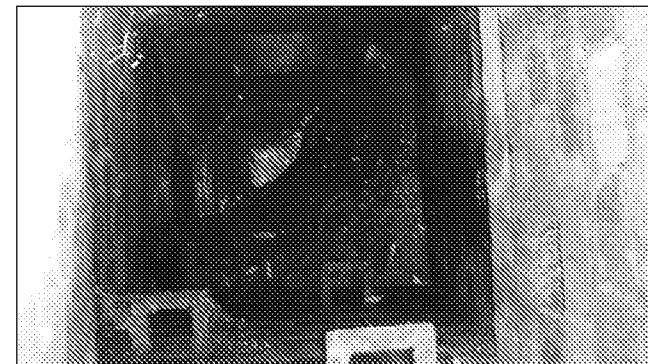
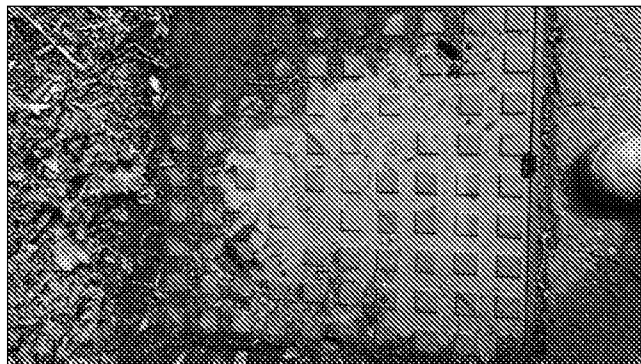
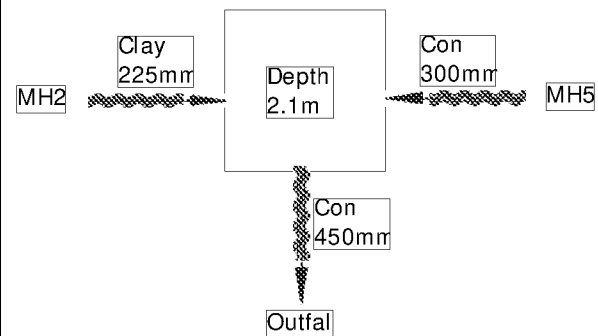
Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/From	To	
		0.0											



Manhole Details

Item Type	Manhole	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020	
Downstream Watercourse		Origin of Data	Internal Survey	Other Source				
Easting (m)	500368.197	Northing (m)	102210.699	Identifier		Asset Reference		
						Manhole	MH 3	
Ladder	No	Step Irons	4	Side Entry	No	Manhole Construction	Brick	
						Number of Landings	0	
Cover Level (m AOD)	7.057	Cover Shape	Square	Other Shape			Cover Duty	Heavy
Cover Width (m)	0.62	Cover Length (m)	0.62	Manufacturer			Grating	No
Shaft Width (m)	0.53	Shaft Length (m)	0.45	Chamber Width (m)	1	Chamber Length (m)	1	
Flap Valve	No	Orifice	No	Sluice Gate	No	Weir	No	
				Screens	No	Penstock	No	
				Flume	No	Headwall	☒	

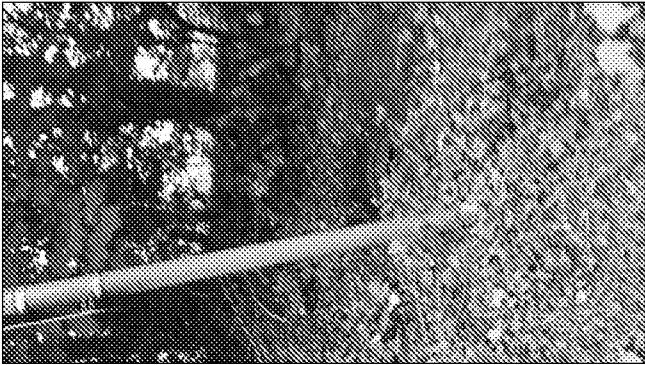
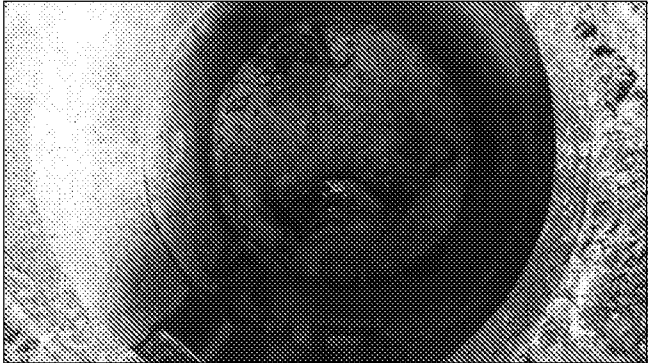
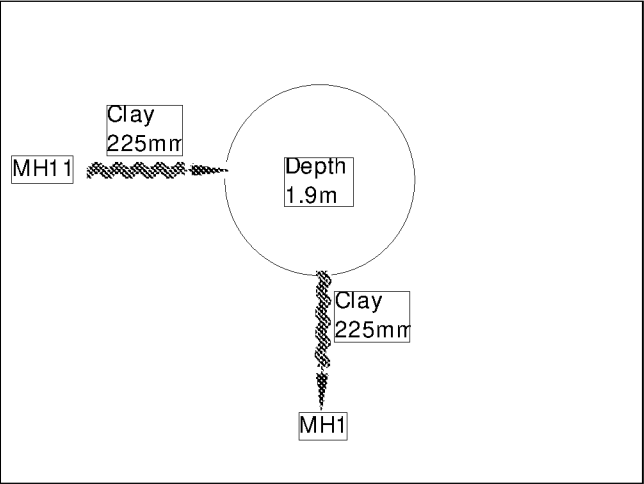
Video Ref.	Photo Ref.	Dist (m)	Cont. defect	Letters				Numbers					Remarks
				Code	Joint	Material	Band	Dimension		%	Clock		
								1	2		At/From	To	
		0.0											



Manhole Details															
Item Type	Manhole		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020					
Downstream Watercourse				Origin of Data	Internal Survey		Other Source								
Easting (m)	500399.922		Northing (m)	102080.611		Identifier		Asset Reference							
									Manhole	MH 4					
Ladder	No	Step Irons	4	Side Entry	No	Manhole Construction	Precast Concrete		Number of Landings	0					
Cover Level (m AOD)	5.566		Cover Shape	Rectangle		Other Shape			Cover Duty	Heavy					
Cover Width (m)	0.675		Cover Length (m)	0.525		Manufacturer			Grating	No					
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.9		Chamber Length (m)	0					
Flap Valve	No	Orifice	No	Sluice Gate	No	Weir	No	Screens	No	Penstock	No	Flume	No	Headwall	☒

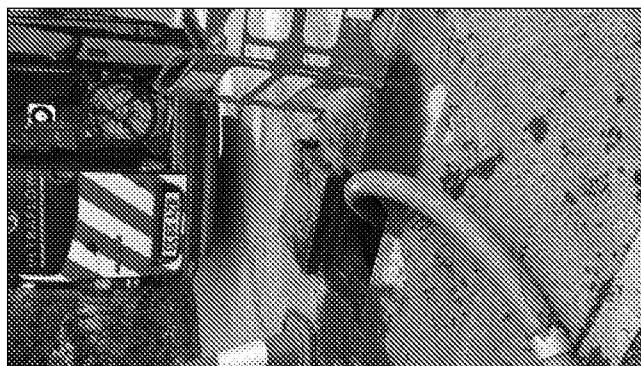
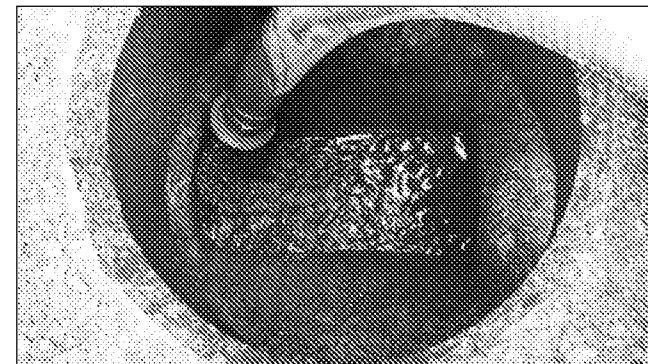
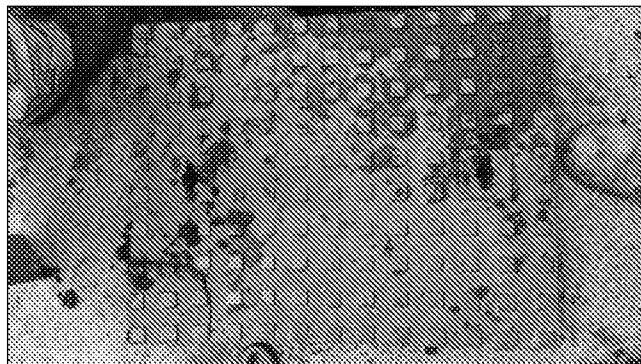
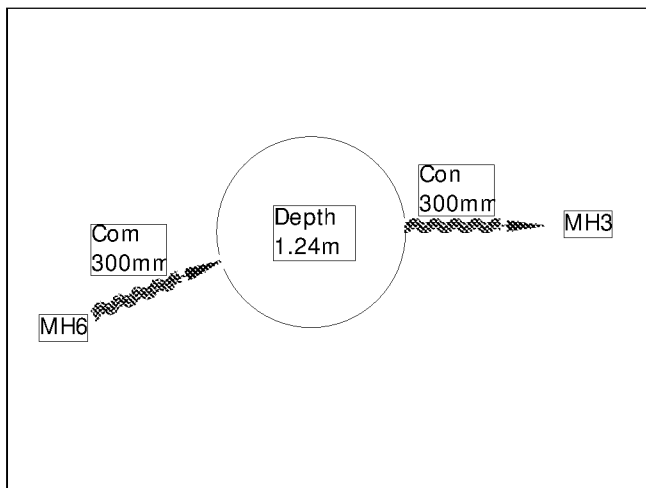
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MH 4



Manhole Details										
Item Type	Manhole		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020
Downstream Watercourse				Origin of Data	Internal Survey		Other Source			
Easting (m)	500347.431		Northing (m)	102283.187		Identifier			Asset Reference	
									Manhole	MH 5
Ladder	No		Step Irons	2		Side Entry	No		Manhole Construction	Precast Concrete
									Number of Landings	0
Cover Level (m AOD)	3.219		Cover Shape	Rectangle		Other Shape			Cover Duty	Heavy.Damaged
Cover Width (m)	0.625		Cover Length (m)	0.525		Manufacturer			Grating	No
Shaft Width (m)	0		Shaft Length (m)	0		Chamber Width (m)	0.9		Chamber Length (m)	0
Flap Valve	No		Orifice	No		Sluice Gate	No		Weir	No
									Screens	No
									Penstock	No
									Flume	No
									Headwall	

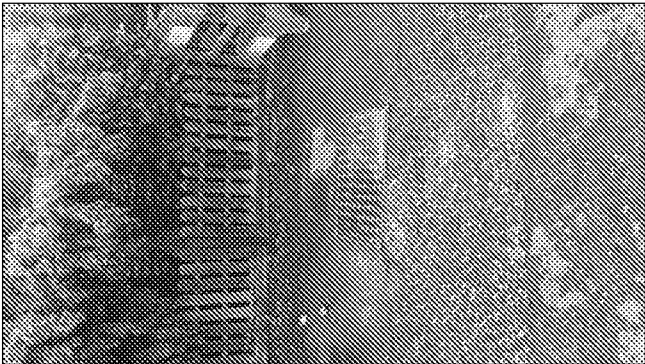
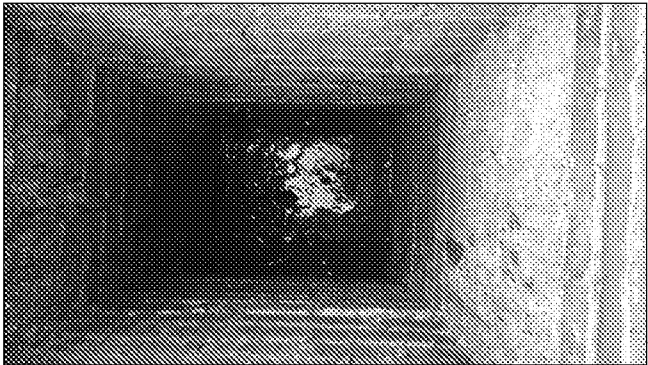
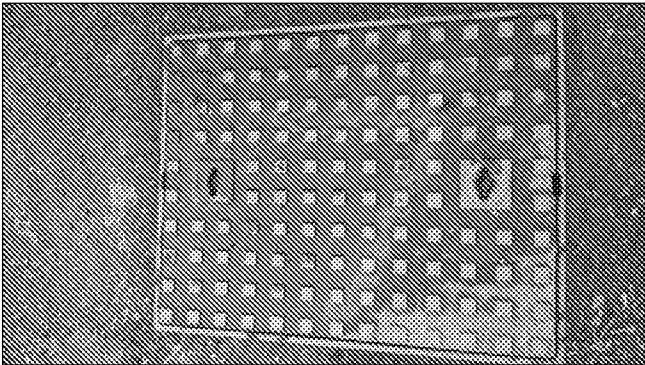
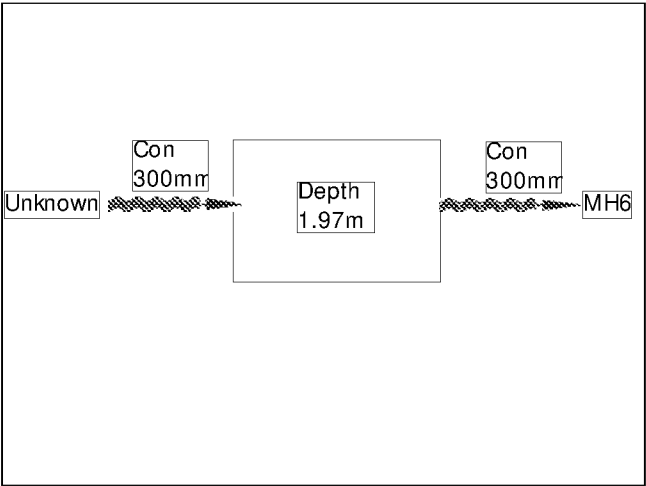
[illegible]



Manhole Details																							
Item Type	Manhole		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020													
Downstream Watercourse				Origin of Data	Internal Survey		Other Source																
Easting (m)	500301.142		Northing (m)	102383.724		Identifier			Asset Reference		Manhole	MH 7											
Ladder	No		Step Irons	No		Side Entry	No		Manhole Construction	Brick		Number of Landings	0										
Cover Level (m AOD)	3.546		Cover Shape	Rectangle		Other Shape				Cover Duty	Heavy												
Cover Width (m)	0.625		Cover Length (m)	0.525		Manufacturer				Grating	No												
Shaft Width (m)	0.6		Shaft Length (m)	0.45		Chamber Width (m)	0.6		Chamber Length (m)	1													
Flap Valve	No		Orifice	No		Sluice Gate	No		Weir	No		Screens	No		Penstock	No		Flume	No		Headwall		

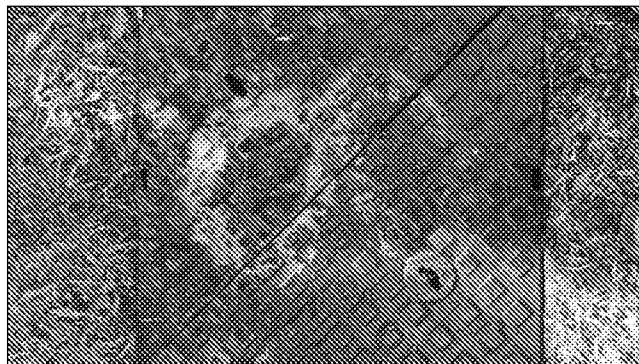
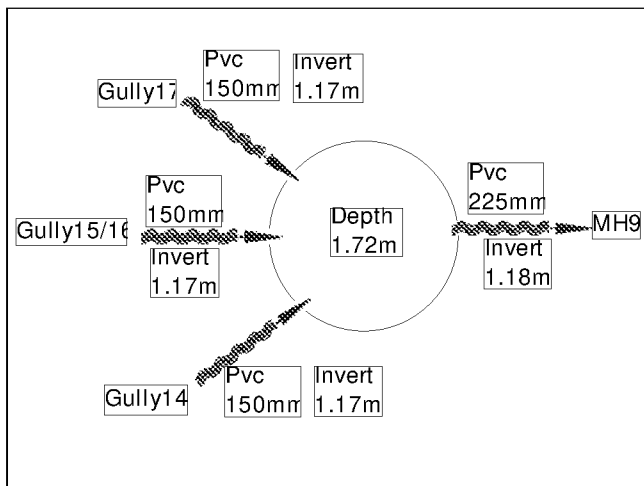
[illegible]

MH 7



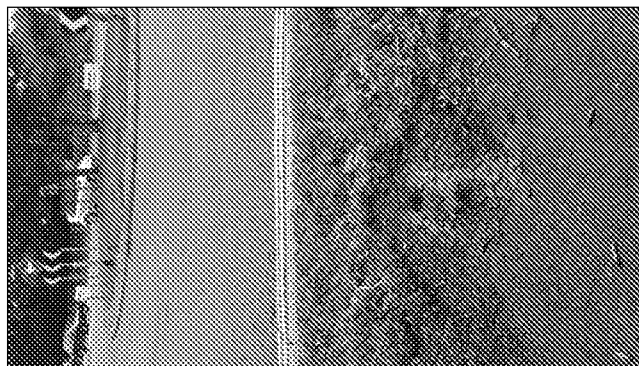
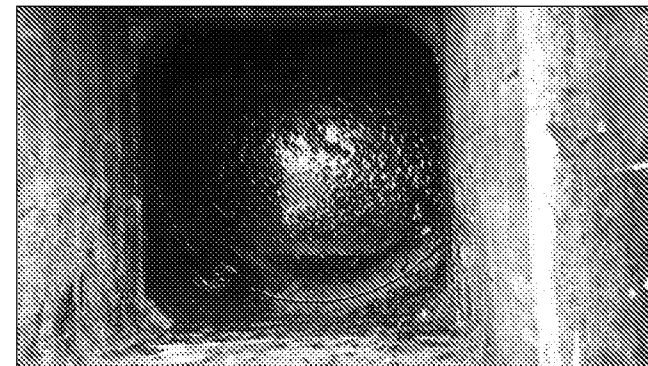
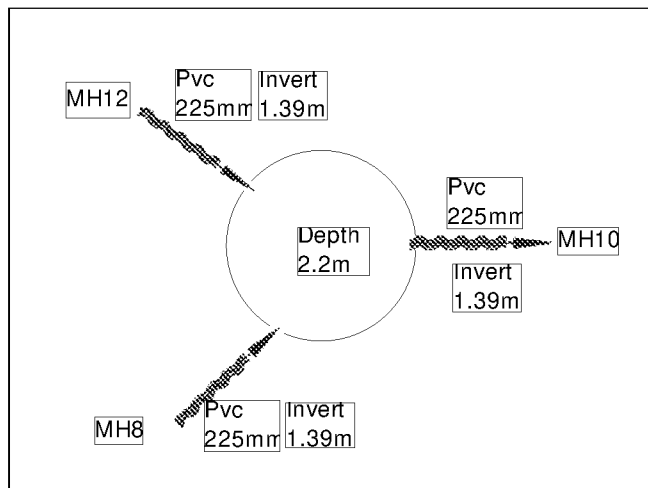
Manhole Details																							
Item Type	Manhole		System Type	Surface Water		Owner	Highways Authority		Date of Survey	01/09/2020													
Downstream Watercourse					Origin of Data	External Survey		Other Source															
Easting (m)	500451.468		Northing (m)	101938.884		Identifier			Asset Reference		Manhole	MH 8											
Ladder	No		Step Irons	No		Side Entry	No		Manhole Construction	Precast Concrete		Number of Landings	0										
Cover Level (m AOD)	2.059		Cover Shape	Square		Other Shape			Cover Duty	Heavy													
Cover Width (m)	0.6		Cover Length (m)	0.6		Manufacturer				Grating	No												
Shaft Width (m)	0.55		Shaft Length (m)	0.55		Chamber Width (m)	1.05		Chamber Length (m)	0													
Flap Valve	No		Orifice	No		Sluice Gate	No		Weir	No		Screens	No		Penstock	No		Flume	No		Headwall		

[illegible]



Catchpit Details															
Item Type	Catchpit	System Type	Surface Water	Owner	Highways Authority	Date of Survey	01/09/2020								
Downstream Watercourse		Origin of Data	External Survey	Other Source											
Easting (m)	500438.61	Northing (m)	101946.763	Identifier		Asset Reference		Manhole	MH 9						
Ladder	No	Step Irons	No	Side Entry	No	Manhole Construction	Precast Concrete	Number of Landings	0						
Cover Level (m AOD)	4.044	Cover Shape	Square	Other Shape		Cover Duty	Heavy								
Cover Width (m)	0.6	Cover Length (m)	0.6	Manufacturer		Grating	No								
Shaft Width (m)	0.55	Shaft Length (m)	0.55	Chamber Width (m)	1.05	Chamber Length (m)	0								
Flap Valve	☐	Orifice	☐	Sluice Gate	☐	Weir	☐	Screens	☐	Penstock	☐	Flume	☐	Headwall	☐

[illegible]



Outfall Details											
Item Type	Outfall		System Type			Owner	Highways Authority		Date of Survey	01/09/2020	
Downstream Watercourse				Origin of Data	External Survey		Other Source				
Easting (m)	500440.946		Northing (m)	102253.653		Identifier			Asset Reference		
Ladder		Step Irons		Side Entry		Manhole Construction			Number of Landings		
Cover Level (m AOD)	2.663		Cover Shape			Other Shape			Cover Duty		
Cover Width (m)			Cover Length (m)			Manufacturer			Grating		
Shaft Width (m)			Shaft Length (m)			Chamber Width (m)			Chamber Length (m)		
Flap Valve			Orifice			Sluice Gate			Weir		
Screens			Penstock			Flume			Headwall		

[illegible]

