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Drain Power Limited
Unit 171 , 24-28 St Leonards Road, Windsor
Tel. 01628671623

Project Information

Project Name	Project Number	Project Date
3025 - Bessemer road - houlihan		17/05/2022

Client

Company: Houlihan & Co (Excavations) Limited
Street: Unit J2, Brooklands Close
Town or City: Sunbury on Thames
County: Middlesex
Post Code: TW16 7DX
Phone: 01932 562000
Fax: 01932 562215

Site

Company: Crest Nicholson
Street: Bessemer Road
Town or City: Welwyn Garden City
Post Code: AL7 1EU

Contractor

Company: Drain Power Limited
Contact: Mike Moss
Department: Company Director
Street: Unit 171 , 24-28 St Leonards Road
Town or City: Windsor
County: Berkshire
Post Code: SL4 3BB
Phone: 01628671623

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Section Profile

Project Name	Project Number	Project Date
3025 - Bessemer road - houlihan		17/05/2022

Circular, 150 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	F1	F4	17/05/2022	Bessemer Road	Vitrified clay	75.21 m	75.21 m
2	F4	F5	17/05/2022	Bessemer Road	Vitrified clay	25.82 m	25.82 m
3	F5	F6	17/05/2022	Bessemer Road	Vitrified clay	18.37 m	18.37 m
4	F6	F13	17/05/2022	Bessemer Road	Vitrified clay	90.17 m	90.17 m
5	F13	F14	17/05/2022	Bessemer Road	Vitrified clay	5.17 m	5.17 m
6	F14	Main run	17/05/2022	Bessemer Road	Vitrified clay	23.39 m	23.39 m
7	F11	F12	17/05/2022	Bessemer Road	Vitrified clay	33.77 m	33.77 m
8	F12	F13	17/05/2022	Bessemer Road	Vitrified clay	14.65 m	14.65 m
9	F8	F11	17/05/2022	Bessemer Road	Vitrified clay	36.76 m	36.76 m
10	F10	F11	17/05/2022	Bessemer Road	Vitrified clay	8.61 m	8.61 m
19	F7	F11	17/02/2023	Bessemer Road	Vitrified clay	88.47 m	88.47 m
20	F8	F10	17/02/2023	Bessemer Road	Vitrified clay	38.61 m	38.61 m

Total: 12 Inspections x Circular 150 mm = 459.00 m Total Length and 459.00 m Inspected Length

Circular, 225 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
17	S11	S12	18/05/2022	Bessemer Road	Vitrified clay	51.55 m	51.55 m

Total: 1 Inspection x Circular 225 mm = 51.55 m Total Length and 51.55 m Inspected Length

Circular, 300 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
11	S1	S2	17/05/2022	Bessemer Road	Vitrified clay	41.37 m	41.37 m
12	S2	S3	17/05/2022	Bessemer Road	Vitrified clay	14.99 m	14.99 m
13	S4	S3	17/05/2022	Bessemer Road	Vitrified clay	17.67 m	17.67 m
14	S4	S5	17/05/2022	Bessemer Road	Vitrified clay	29.80 m	29.80 m

Total: 4 Inspections x Circular 300 mm = 103.83 m Total Length and 103.83 m Inspected Length

Circular, 375 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
23	S12A	S12	17/02/2023	Bessemer Road	Concrete	24.13 m	24.13 m

Total: 1 Inspection x Circular 375 mm = 24.13 m Total Length and 24.13 m Inspected Length

Circular, 450 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
15	S10	S11	18/05/2022	Bessemer Road	Concrete	75.15 m	75.15 m
16	S9	S11	18/05/2022	Bessemer Road	Concrete	8.33 m	8.33 m
18	S8	S9	18/05/2022	Bessemer Road	Concrete	26.41 m	26.41 m

Total: 3 Inspections x Circular 450 mm = 109.89 m Total Length and 109.89 m Inspected Length

Circular, 600 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
22	S5	S6	17/02/2023	Bessemer Road	Concrete	14.59 m	14.59 m

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Section Profile

Project Name	Project Number	Project Date
3025 - Bessemer road - houlihan		17/05/2022

Total: 1 Inspection x Circular 600 mm = 14.59 m Total Length and 14.59 m Inspected Length

Circular, 1200 mm

Section	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
21	S6	S12	17/02/2023	Bessemer Road	Concrete	91.99 m	91.99 m

Total: 1 Inspection x Circular 1200 mm = 91.99 m Total Length and 91.99 m Inspected Length

Total: 23 Inspections = 854.98 m Total Length and 854.98 m Inspected Length

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Section Inspection - 17/05/2022 - F1X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	17/05/22	11:56	Not Specified	No Rain Or Snow	Yes	F1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

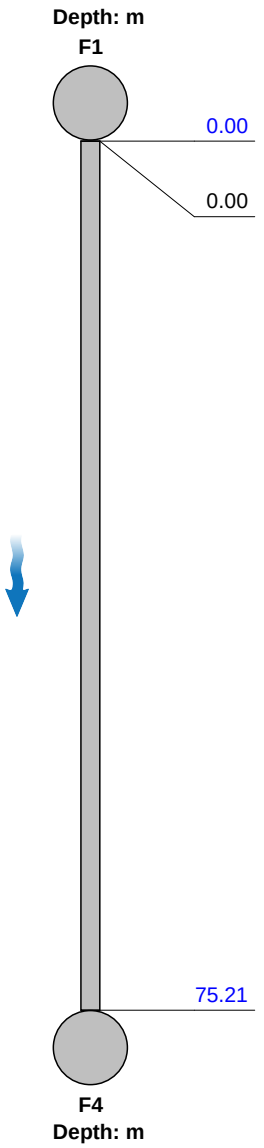
Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F1
Road:	Bessemer Road	**Inspected Length:**	75.21 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	75.21 m	**Downstream Node:**	F4
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:654

Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F1	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
75.21	MHF	Finish node type, manhole, reference number: F4	00:07:03	



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F4X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	2	17/05/22	12:15	Not Specified	No Rain Or Snow	Yes	F4X

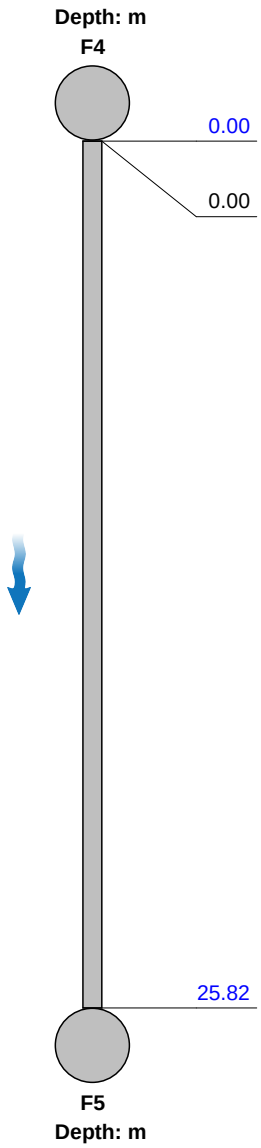
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F4
Road:	Bessemer Road	**Inspected Length:**	25.82 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	25.82 m	**Downstream Node:**	F5
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:225



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F4	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
25.82	MHF	Finish node type, manhole, reference number: F5	00:01:06	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F5X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	3	17/05/22	12:28	Not Specified	No Rain Or Snow	Yes	F5X

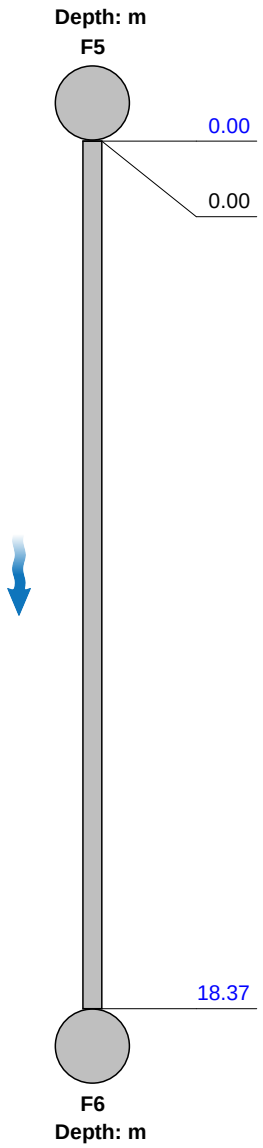
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F5
Road:	Bessemer Road	**Inspected Length:**	18.37 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	18.37 m	**Downstream Node:**	F6
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:160



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F5	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
18.37	MHF	Finish node type, manhole, reference number: F6	00:01:54	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F6X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	4	17/05/22	13:03	Not Specified	No Rain Or Snow	Yes	F6X

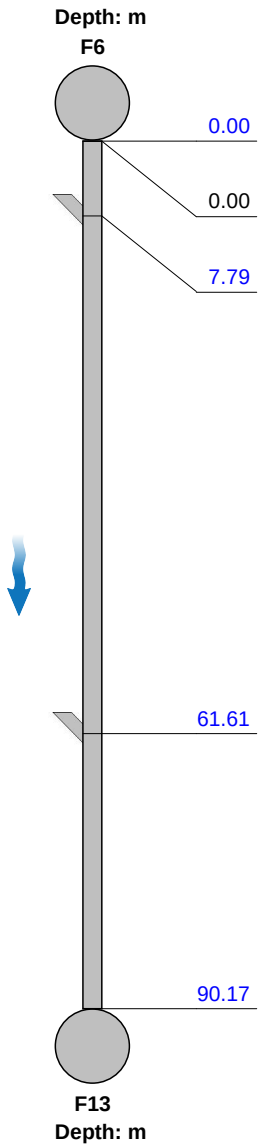
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F6
Road:	Bessemer Road	**Inspected Length:**	90.17 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	90.17 m	**Downstream Node:**	F13
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:785



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F6	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
7.79	JN	Junction at 3 o'clock, diameter: 150mm	00:00:45	
61.61	JN	Junction at 3 o'clock, diameter: 150mm	00:05:50	
90.17	MHF	Finish node type, manhole, reference number: F13	00:08:45	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F13X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	5	17/05/22	13:11	Not Specified	No Rain Or Snow	Yes	F13X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

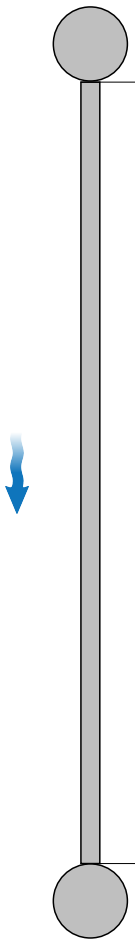
Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F13
Road:	Bessemer Road	**Inspected Length:**	5.17 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	5.17 m	**Downstream Node:**	F14
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: m
F13



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: #StartNodeInspection	00:00:00	
5.17	MHF	Finish node type, manhole, reference number: F14	00:00:27	

F14
Depth: m

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F14X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	6	17/05/22	13:13	Not Specified	No Rain Or Snow	Yes	F14X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

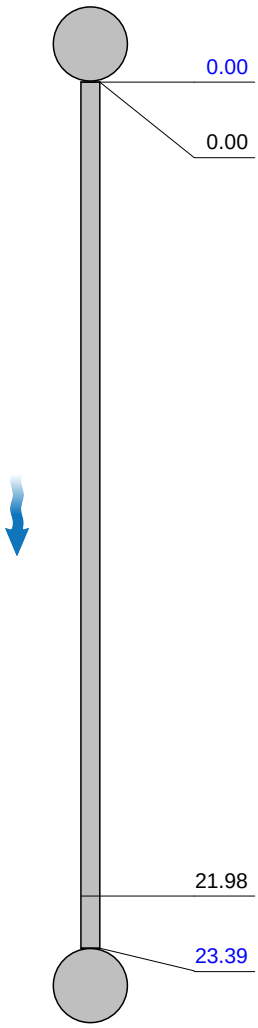
Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F14
Road:	Bessemer Road	**Inspected Length:**	23.39 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	23.39 m	**Downstream Node:**	MAIN RUN
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:204

Depth: m
F14



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F14	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
21.98	WL	Water level, 30% of the vertical dimension	00:01:28	
23.39	MHF	Finish node type, manhole, reference number: Main run	00:01:45	

Main run
Depth: m

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F11X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	7	17/05/22	13:17	Not Specified	No Rain Or Snow	Yes	F11X

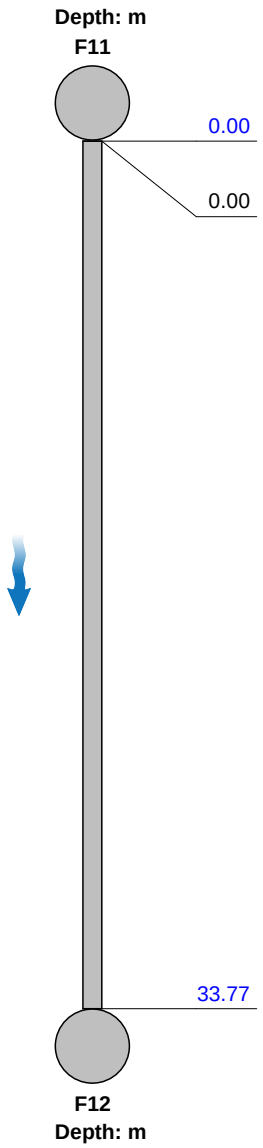
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F11
Road:	Bessemer Road	**Inspected Length:**	33.77 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	33.77 m	**Downstream Node:**	F12
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:294



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F11	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
33.77	MHF	Finish node type, manhole, reference number: F12	00:01:37	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F12X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	8	17/05/22	13:52	Not Specified	No Rain Or Snow	Yes	F12X

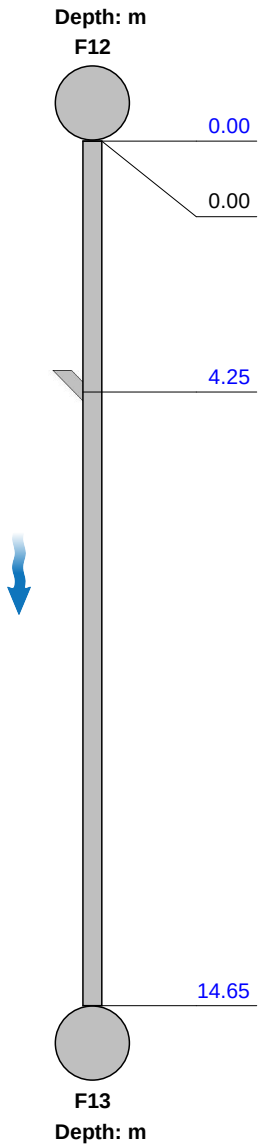
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F12
Road:	Bessemer Road	**Inspected Length:**	14.65 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	14.65 m	**Downstream Node:**	F13
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:128



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F12		
0.00	WL	Water level, 5% of the vertical dimension	00:00:00	
4.25	JN	Junction at 3 o'clock, diameter: 150mm	00:00:13	
14.65	MHF	Finish node type, manhole, reference number: F13	00:00:54	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Our Services:

- CCTV Surveys
- High Pressure Water Jetting
- Re-Lining & Patch Repairs
- Root / Debris Removal
- De-scaling
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- Fully Insured

Drain Power Limited
Unit 171 , 24-28 St Leonards Road, Windsor
Tel. 01628671623

Section Inspection - 17/05/2022 - F8X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	9	17/05/22	13:54	Not Specified	No Rain Or Snow	Yes	F8X

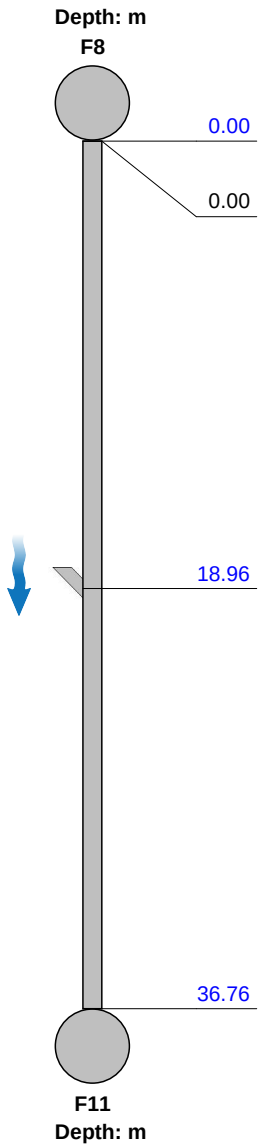
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F8
Road:	Bessemer Road	**Inspected Length:**	36.76 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	36.76 m	**Downstream Node:**	F11
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:320



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F8	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
18.96	JN	Junction at 3 o'clock, diameter: 150mm	00:01:00	
36.76	MHF	Finish node type, manhole, reference number: F11	00:01:49	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - F10X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	10	17/05/22	14:01	Not Specified	No Rain Or Snow	Yes	F10X

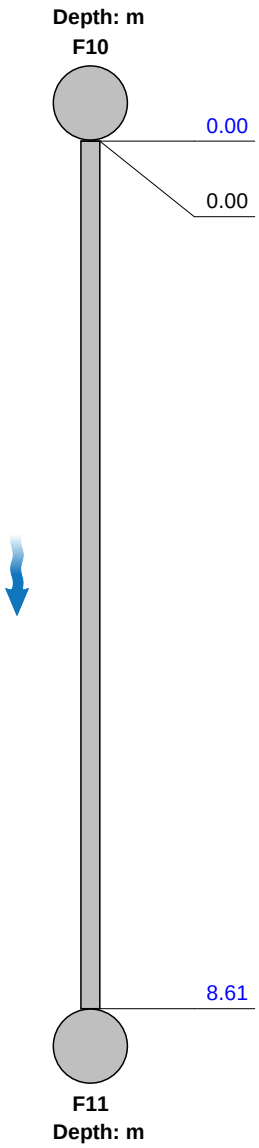
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	F10
Road:	Bessemer Road	**Inspected Length:**	8.61 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	8.61 m	**Downstream Node:**	F11
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:75



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F10	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
8.61	MHF	Finish node type, manhole, reference number: F11	00:01:02	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0

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Section Inspection - 17/05/2022 - S1X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	11	17/05/22	14:22	Not Specified	No Rain Or Snow	Yes	S1X

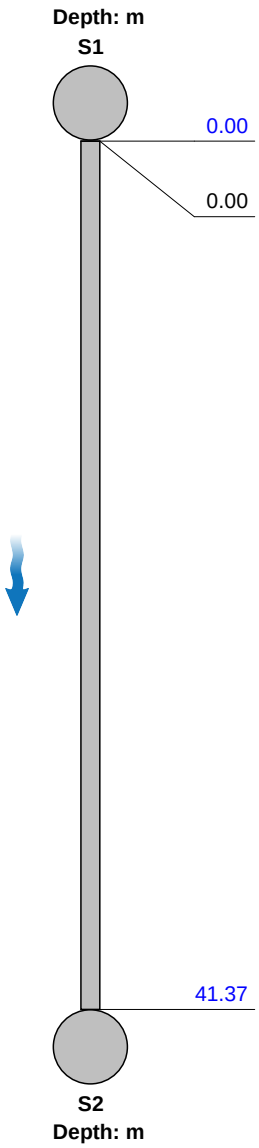
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	S1
Road:	Bessemer Road	**Inspected Length:**	41.37 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	41.37 m	**Downstream Node:**	S2
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:360



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S1	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
41.37	MHF	Finish node type, manhole, reference number: S2	00:03:00	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - S2X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	12	17/05/22	14:35	Not Specified	No Rain Or Snow	Yes	S2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

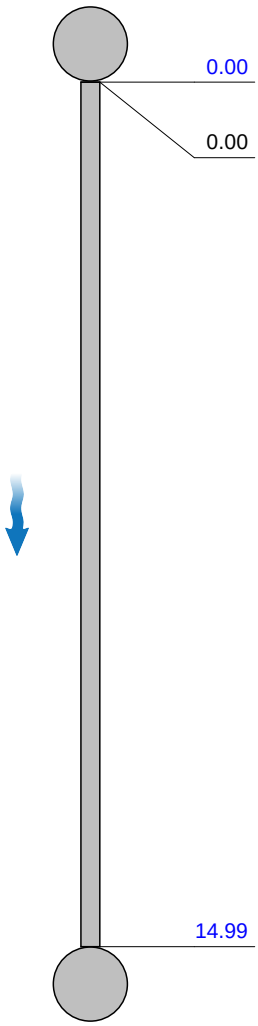
Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	S2
Road:	Bessemer Road	**Inspected Length:**	14.99 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	14.99 m	**Downstream Node:**	S3
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:131

Depth: m
S2



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S2	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
14.99	MHF	Finish node type, manhole, reference number: S3	00:00:52	

S3
Depth: m

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - S4X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	13	17/05/22	14:44	Not Specified	No Rain Or Snow	Yes	S4X

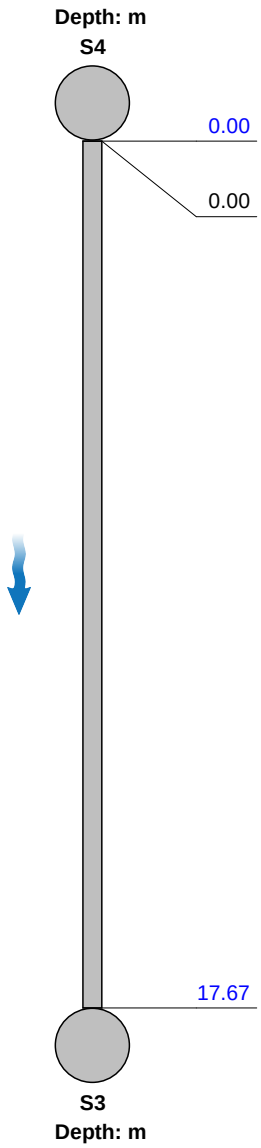
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	S4
Road:	Bessemer Road	**Inspected Length:**	17.67 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	17.67 m	**Downstream Node:**	S3
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:154



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S4	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
17.67	MHF	Finish node type, manhole, reference number: S3	00:00:32	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/05/2022 - S4X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	14	17/05/22	15:09	Not Specified	No Rain Or Snow	Yes	S4X

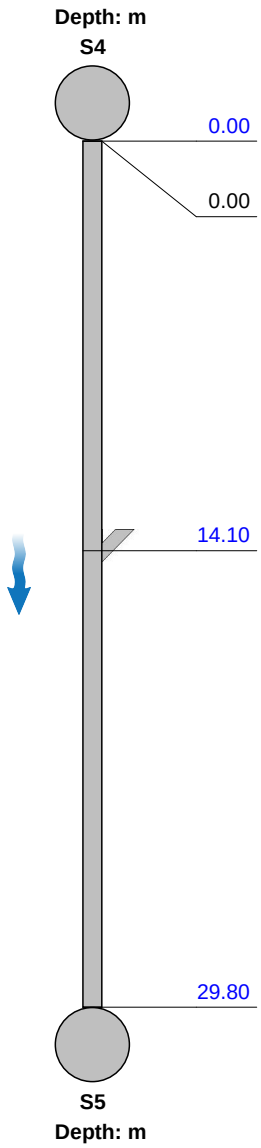
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	S4
Road:	Bessemer Road	**Inspected Length:**	29.80 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	29.80 m	**Downstream Node:**	S5
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:260



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S4	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
14.10	JN	Junction at 9 o'clock, diameter: 150mm	00:01:03	
29.80	MHF	Finish node type, manhole, reference number: S5	00:01:31	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 18/05/2022 - S10X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	15	18/05/22	9:05	Not Specified	No Rain Or Snow	Yes	S10X

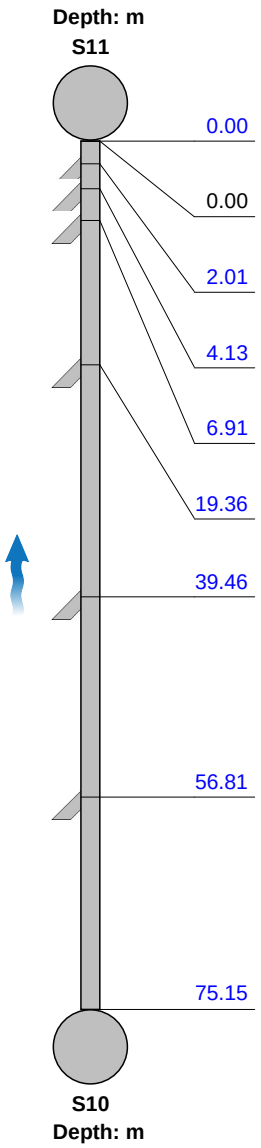
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Upstream	**Upstream Node:**	S10
Road:	Bessemer Road	**Inspected Length:**	75.15 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	75.15 m	**Downstream Node:**	S11
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Year Constructed:		**Material:**	Concrete
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:654



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S11	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
2.01	JN	Junction at 2 o'clock, diameter: 150mm	00:00:07	
4.13	JN	Junction at 3 o'clock, diameter: 150mm	00:00:15	
6.91	JN	Junction at 3 o'clock, diameter: 150mm	00:00:22	
19.36	JN	Junction at 2 o'clock, diameter: 150mm	00:01:03	
39.46	JN	Junction at 3 o'clock, diameter: 150mm	00:02:22	
56.81	JN	Junction at 3 o'clock, diameter: 150mm	00:03:20	
75.15	MHF	Finish node type, manhole, reference number: S10	00:04:24	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 18/05/2022 - S9X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	16	18/05/22	9:13	Not Specified	No Rain Or Snow	Yes	S9X

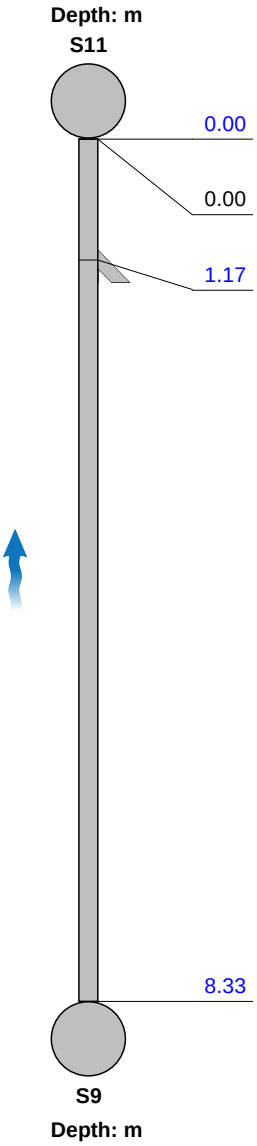
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Upstream	**Upstream Node:**	S9
Road:	Bessemer Road	**Inspected Length:**	8.33 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	8.33 m	**Downstream Node:**	S11
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Year Constructed:		**Material:**	Concrete
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:73



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S11	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
1.17	JN	Junction at 9 o'clock, diameter: 150mm	00:00:10	
8.33	MHF	Finish node type, manhole, reference number: S9	00:00:44	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 18/05/2022 - S11X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	17	18/05/22	11:04	Not Specified	No Rain Or Snow	Yes	S11X

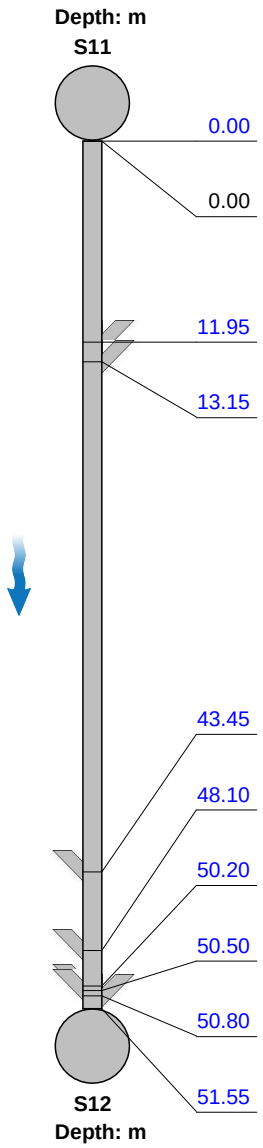
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	S11
Road:	Bessemer Road	**Inspected Length:**	51.55 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	51.55 m	**Downstream Node:**	S12
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:449



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S11	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
11.95	JN	Junction at 9 o'clock, diameter: 150mm	00:00:13	
13.15	JN	Junction at 9 o'clock, diameter: 150mm	00:00:13	
43.45	JN	Junction at 3 o'clock, diameter: 150mm	00:00:46	
48.10	JN	Junction at 3 o'clock, diameter: 150mm	00:00:51	
50.20	JN	Junction at 3 o'clock, diameter: 150mm	00:00:53	
50.50	JN	Junction at 3 o'clock, diameter: 150mm	00:01:16	
50.80	JN	Junction at 9 o'clock, diameter: 100mm	00:01:17	
51.55	MHF	Finish node type, manhole, reference number: S12	00:01:18	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 18/05/2022 - S8X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	18	18/05/22	11:29	Not Specified	No Rain Or Snow	Yes	S8X

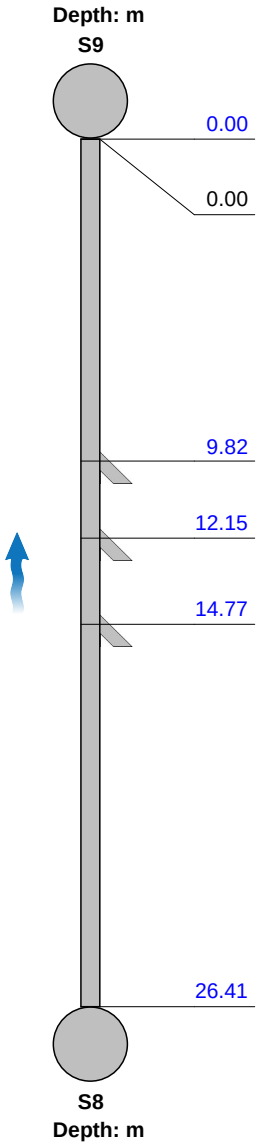
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Upstream	**Upstream Node:**	S8
Road:	Bessemer Road	**Inspected Length:**	26.41 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	26.41 m	**Downstream Node:**	S9
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Year Constructed:		**Material:**	Concrete
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:230



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S9	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
9.82	JN	Junction at 9 o'clock, diameter: 150mm	00:00:35	
12.15	JN	Junction at 9 o'clock, diameter: 150mm	00:00:44	
14.77	JN	Junction at 9 o'clock, diameter: 150mm	00:00:53	
26.41	MHF	Finish node type, manhole, reference number: S8: HYDROBRAKE	00:01:43	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/02/2023 - F7X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	19	17/02/23	12:21	Not Specified	No Rain Or Snow	Yes	F7X

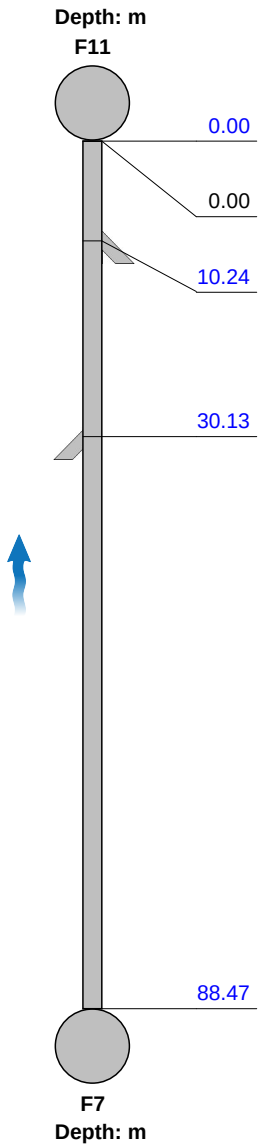
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Upstream	**Upstream Node:**	F7
Road:	Bessemer Road	**Inspected Length:**	88.47 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	88.47 m	**Downstream Node:**	F11
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:770



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F11	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:00	
10.24	JN	Junction at 9 o'clock, diameter: 150mm	00:01:27	
30.13	JN	Junction at 3 o'clock, diameter: 150mm	00:03:18	
88.47	MHF	Finish node type, manhole, reference number: F7	00:09:46	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	1.0	0.0	1.0	1.0	1	2.0	0.0	2.0	3.0

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Section Inspection - 17/02/2023 - F8X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	20	17/02/23	13:04	Not Specified	No Rain Or Snow	Yes	F8X

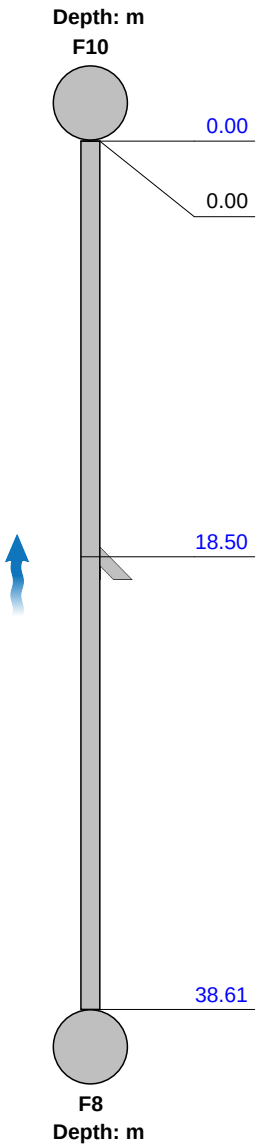
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Upstream	**Upstream Node:**	F8
Road:	Bessemer Road	**Inspected Length:**	38.61 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	38.61 m	**Downstream Node:**	F10
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:336



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: F10	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
18.50	JN	Junction at 9 o'clock, diameter: 150mm	00:03:51	
38.61	MHF	Finish node type, manhole, reference number: F8	00:06:20	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	80.0	4.3	80.0	4.0	0	0.0	0.0	0.0	1.0

3025 - Bessemer road - houlihan

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Section Inspection - 17/02/2023 - S6X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	21	17/02/23	15:07	Not Specified	No Rain Or Snow	Yes	S6X

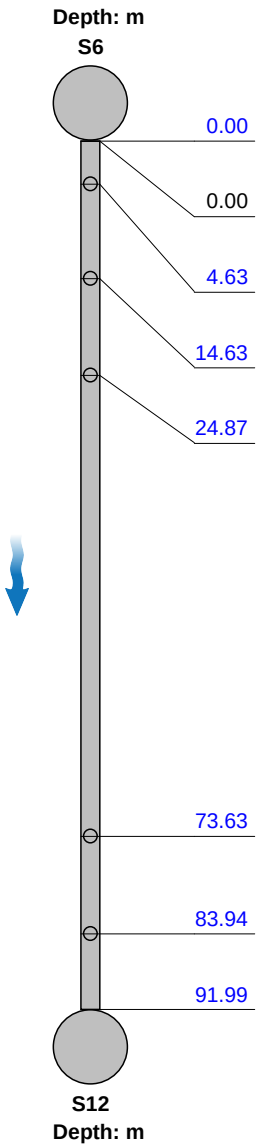
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Downstream	**Upstream Node:**	S6
Road:	Bessemer Road	**Inspected Length:**	91.99 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	91.99 m	**Downstream Node:**	S12
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,200 mm
Year Constructed:		**Material:**	Concrete
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:800



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S6	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
4.63	JN	Junction at 12 o'clock, diameter: 150mm	00:00:40	
14.63	JN	Junction at 12 o'clock, diameter: 150mm	00:01:58	
24.87	JN	Junction at 12 o'clock, diameter: 150mm	00:03:01	
73.63	JN	Junction at 12 o'clock, diameter: 150mm	00:07:10	
83.94	JN	Junction at 12 o'clock, diameter: 150mm	00:08:29	
91.99	MHF	Finish node type, manhole, reference number: S12	00:10:28	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/02/2023 - S5X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	22	17/02/23	15:15	Not Specified	No Rain Or Snow	Yes	S5X

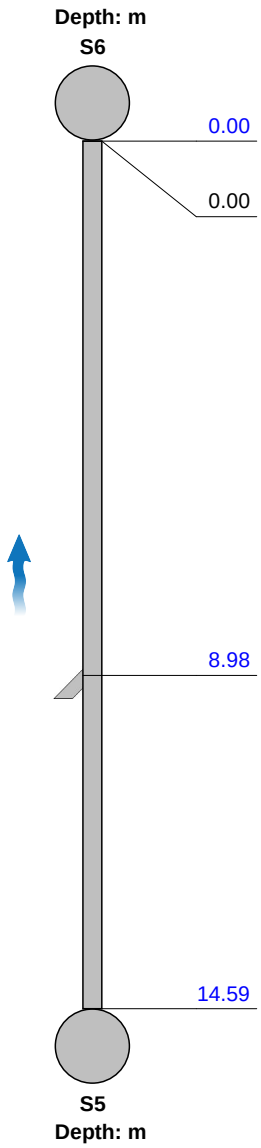
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Upstream	**Upstream Node:**	S5
Road:	Bessemer Road	**Inspected Length:**	14.59 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	14.59 m	**Downstream Node:**	S6
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	600 mm
Year Constructed:		**Material:**	Concrete
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:127



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S6	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
8.98	JN	Junction at 1 o'clock, diameter: 150mm	00:01:03	
14.59	MHF	Finish node type, manhole, reference number: S5	00:01:45	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 17/02/2023 - S12AX

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	23	17/02/23	15:26	Not Specified	No Rain Or Snow	Yes	S12AX

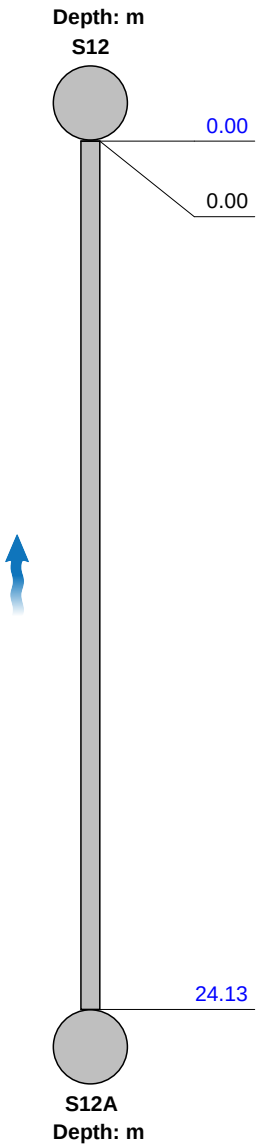
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Jack	YP65 ZYY	Flexi	Not Specified	Not Specified	Not Specified

Town or Village:	Welwyn Garden City	**Inspection Direction:**	Upstream	**Upstream Node:**	S12A
Road:	Bessemer Road	**Inspected Length:**	24.13 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	24.13 m	**Downstream Node:**	S12
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Year Constructed:		**Material:**	Concrete
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:210



Position [m]	Code	Observation	MPEG	Grade
0.00	MH	Start node type, manhole, reference number: S12	00:00:00	
0.00	WL	Water level, 5% of the vertical dimension	00:00:01	
24.13	MHF	Finish node type, manhole, reference number: S12A	00:02:16	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0