



Project

Project Name: Horniman Primary School SE23 3BP
Project Description: SITE DRAINAGE SURVEY
Project Number: 00251454
Project Status: Complete
Project Date: 17/02/2022



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Horniman Primary School SE23 3BP	00251454	17/02/2022

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Project Information

Project Name	Project Number	Project Date
Horniman Primary School SE23 3BP	00251454	17/02/2022

Site

Company: Horniman Primary School
Contact: Sharon Henriques
Street: Horniman Drive
Town or City: Forrest Hill
County: Greater London
Post Code: SE23 3BP
Email: sbm@horniman.lewisham.sch.uk

Contractor

Company: Aspect
Street: E7 Barwell Business Park
Town or City: Chessington
County: Greater London
Post Code: KT9 2NY
Phone: 020 3930 1538

Project Information

Project Name Horniman Primary School SE23 3BP	Project Number 00251454	Project Date 17/02/2022
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Project Notes

CONCLUSION:

The closed-circuit television survey was carried out to check and map the location of the drains/manholes for the school as they will be having a new surface put down in the pen.

Once on site we lifted all chamber surrounding the pen area, we then surveyed the lines. They all go to manhole 3 and I believe this line to belong to the water board as it seems to take water from the houses behind the school. There also seems to be damage to the 225mm line so I would advise this line is cleaned and surveyed using a crawler camera to be able to fully check the condition of the line. I did also see a connection that possible could serve a drain under the floor inside the pen.

Should you have any queries please do not hesitate to contact us.

We look forward to receiving your further instructions.

PLEASE NOTE: THE MEASUREMENTS IN OUR REPORTS OR ON OUR RECORDINGS ARE TO BE USED AS A GUIDELINE ONLY.

Project Information

Project Name
 Horniman Primary School SE23 3BP

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Drawing Legend

	Air Admittance Valve		Soakway (Foul Water)		Soakway (Rain Water)
	Basin		Squat Toilet		Collapse
	Bath		Sub Stack		Connector Node
	Bidet		Toilet		Manhole (Combined)
	Dishwasher		Urinal Bowl		Lamphole
	Grease Trap		Urinal Tray		Inspection Chamber (Combined)
	Gully (Foul Water)		Soil & Vent Pipe		Non Return Valve
	Manhole (Foul Water)		Washing Machine		Rodding Eye
	Inspection Chamber (Foul Water)		Catchpit		Sampling Point
	Oil Interceptor		Gully (Rain Water)		Excavation Pit
	Petrol Interceptor		Inlet		Flowers
	Pipe Trap		Manhole (Rain Water)		Grass
	Pumping Chamber		Inspection Chamber (Rain Water)		Other
	Septic Tank		Outlet		Tree (Side)
	Shower		Rainwater Downpipe		Tree (Top)
	Sink		Roadside Gully		

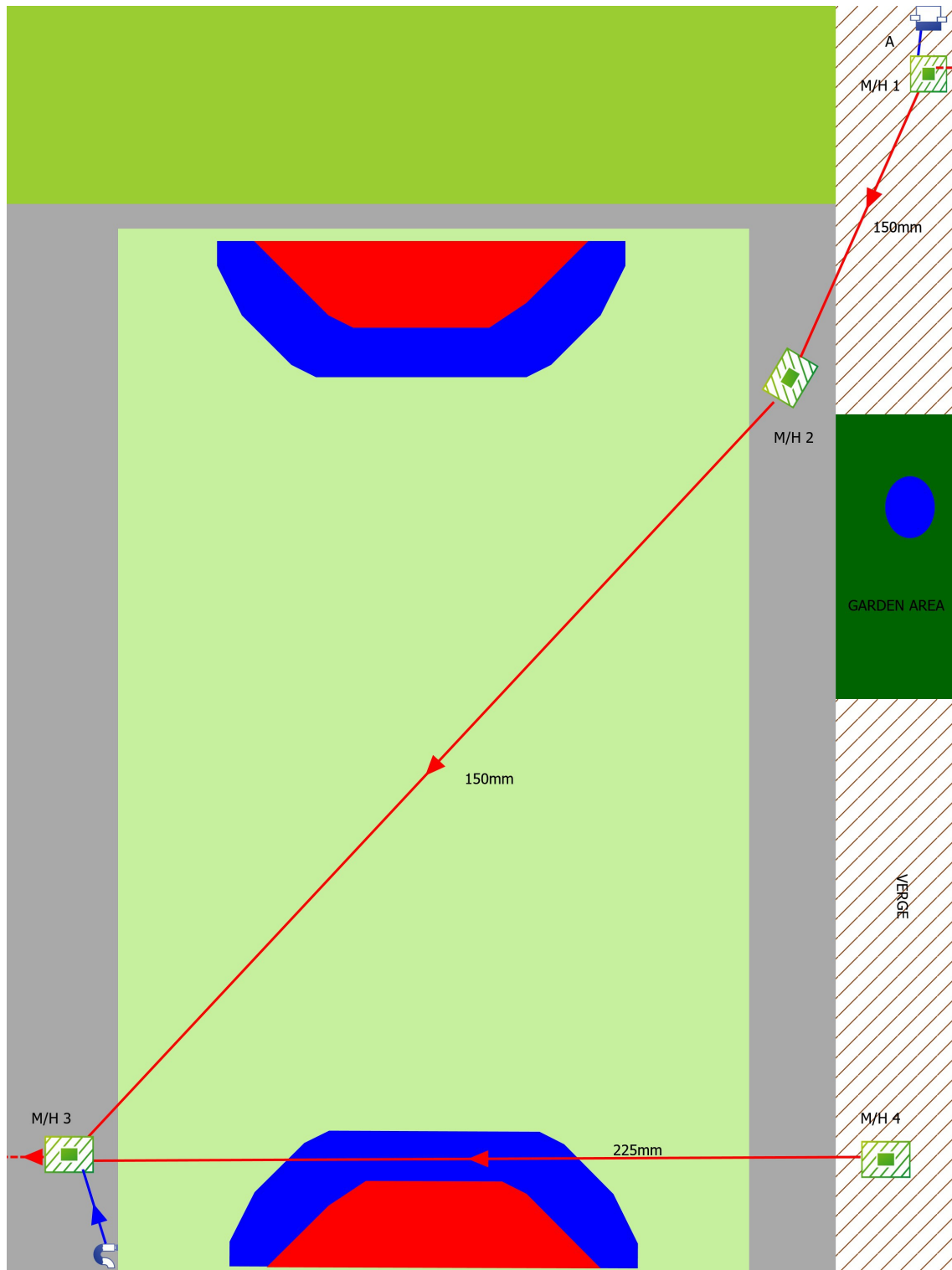
Project Information

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Project Drawing, Page 'Horniman Primary School SE23 3BP'



Project Pictures

Project Name
Horniman Primary School SE23 3BP

Project Number
00251454

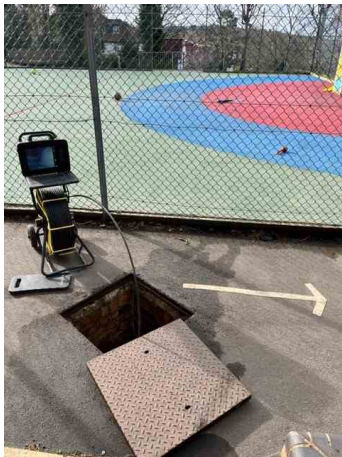
Project Date
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AREA OVERVIEW



CATCH PIT OVERVIEW



CCTV OVERVIEW MANHOLE 2



MH 1 & CATCH PIT OVERVIEW



CCTV OVERVIEW MANHOLE 4



CCTV OVERVIEW MANHOLE 3

Section Inspection - 17/02/2022 - BRANCH A - CATCH PITX



Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	17/02/22	11:15	Not Specified	No Rain Or Snow	No	BRANCH A - CATCH PITX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
DAN GREEN		Camera Van 1		Cctv 1	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	BRANCH A - CATCH PITX
Road:	Horniman School	Inspected Length:	0.19 m	Upstream Pipe Depth:	0.000 m
Location:	Under a building	Total Length:	0.19 m	Downstream Node:	M/H 1
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.000 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	MH	Start node, manhole, reference: 1	00:00:02	20220217-111633-sn ap0000.jpg	
		0.00	WL	Water level, 0% of the vertical dimension	00:00:03		
		0.19	CPF	Finish node, catchpit, reference: BRANCH A - CATCH PIT	00:00:36	20220217-111633-sn ap0001.jpg	

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

Section Pictures - 17/02/2022 - BRANCH A - CATCH PITX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	BRANCH A - CATCH PITX		00251454



20220217-111633-snap0000.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: 1



20220217-111633-snap0001.jpg, 00:00:36, 0.19 m
Finish node, catchpit, reference: BRANCH A - CATCH PIT

Section Inspection - 17/02/2022 - M/ H 1X



Item No. 2	Insp. No. 2	Date 17/02/22	Time 11:18	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR M/ H 1X
Operator DAN GREEN		Vehicle Camera Van 1		Camera Cctv 1	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	M/ H 1
Road:	Horniman School	Inspected Length:	16.11 m	Upstream Pipe Depth:	1.000 m
Location:	Under a building	Total Length:	16.11 m	Downstream Node:	MAINLINE - M/H 2
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.000 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Cast iron		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:139	Position [m]	Code	Observation	MPEG	Photo	Grade
<p>Depth: 1.00 m M/ H 1</p>						
	0.00	MH	Start node, manhole, reference: 1	00:00:02	20220217-111814-sn ap0000.jpg	
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
	1.86	WL	Water level, 5% of the vertical dimension	00:00:47		
	6.61	DEX	Settled deposits, other, 15% cross-sectional area loss: SCALE	00:01:51	20220217-111814-sn ap0001.jpg	3
	16.11	MHF	Finish node, manhole, reference: 2	00:03:25	20220217-111814-sn ap0002.jpg	
<p>MAINLINE - M/H 2 Depth: 0.00 m</p>						

Construction Features

Structural Defects

Miscellaneous Features

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	1	2.0	0.1	2.0	3.0

Section Pictures - 17/02/2022 - M/ H 1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	M/ H 1X		00251454



20220217-111814-snap0000.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: 1



20220217-111814-snap0001.jpg, 00:01:51, 6.61 m
Settled deposits, other, 15% cross-sectional area loss, SCALE



20220217-111814-snap0002.jpg, 00:03:25, 16.11 m
Finish node, manhole, reference: 2

Section Inspection - 17/02/2022 - M/H 2X



Item No. 3	Insp. No. 3	Date 17/02/22	Time 11:28	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR M/H 2X
Operator DAN GREEN		Vehicle Camera Van 1		Camera Cctv 1	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	M/H 2
Road:	Horniman School	Inspected Length:	27.36 m	Upstream Pipe Depth:	1.840 m
Location:	Under a building	Total Length:	27.36 m	Downstream Node:	MAINLINE - M/H 3
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.000 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Cast iron		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:236	Position [m]	Code	Observation	MPEG	Photo	Grade
<p>Depth: 1.84 m M/H 2</p>							
	0.00	MH		Start node, manhole, reference: 2	00:00:02	20220217-113011-sn ap0000.jpg	
	0.00	WL		Water level, 0% of the vertical dimension	00:00:03		
	27.36	MHF		Finish node, manhole, reference: 3	00:07:30	20220217-113011-sn ap0001.jpg	
MAINLINE - M/H 3 Depth: 0.00 m							

Construction Features

Structural Defects

Miscellaneous Features

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

Section Pictures - 17/02/2022 - M/H 2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	M/H 2X		00251454



20220217-113011-snap0000.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: 2



20220217-113011-snap0001.jpg, 00:07:30, 27.36 m
Finish node, manhole, reference: 3

Section Inspection - 17/02/2022 - BRANCH B - GULLYX



Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	4	17/02/22	11:52	Not Specified	No Rain Or Snow	No	BRANCH B - GULLYX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
DAN GREEN		Camera Van 1		Cctv 1	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Upstream	Upstream Node:	BRANCHB-GULLY
Road:	Horniman School	Inspected Length:	3.08 m	Upstream Pipe Depth:	0.000 m
Location:	Under a building	Total Length:	3.08 m	Downstream Node:	M/H 3
Surface Type:		Joint Length:		Downstream Pipe Depth:	2.200 m

Use:	Surface water	Pipe Shape:	Circular
Type of Pipe:		Dia/Height:	100 mm
Flow Control:	No flow control	Material:	Polyvinyl chloride
Year Constructed:	Not Specified	Lining Type:	No Lining
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining

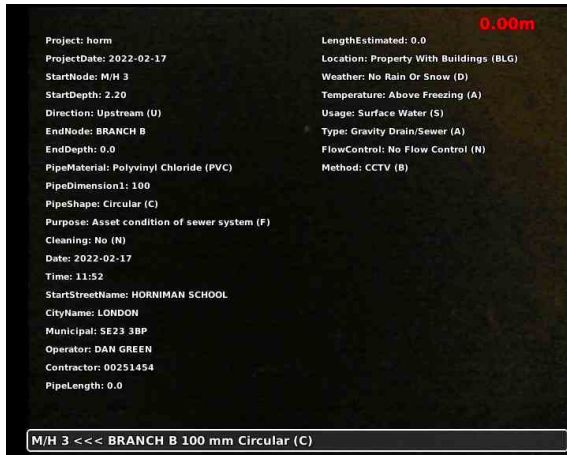
Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
<p>Depth: 2.20 m M/H 3</p>							
		0.00	MH	Start node, manhole, reference: 3	00:00:02	20220217-115213-sn ap0000.jpg	
		0.00	WL	Water level, 0% of the vertical dimension	00:00:03		
		2.96	LL	Line deviates left	00:00:26	20220217-115213-sn ap0001.jpg	
		3.08	GYF	Finish node, gully, reference: BRANCH B - GULLY	00:00:42	20220217-115213-sn ap0002.jpg	
BRANCH B - GULLY Depth: 0.00 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

Section Pictures - 17/02/2022 - BRANCH B - GULLYX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	BRANCH B - GULLYX		00251454



20220217-115213-snap0000.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: 3



20220217-115213-snap0001.jpg, 00:00:26, 2.96 m
Line deviates left



20220217-115213-snap0002.jpg, 00:00:42, 3.08 m
Finish node, gully, reference: BRANCH B - GULLY

Section Inspection - 17/02/2022 - M/H 4X



Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	5	17/02/22	12:18	Not Specified	No Rain Or Snow	No	M/H 4X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
DAN GREEN		Camera Van 1		Cctv 1	Not Specified	Not Specified	Not Specified

Town or Village:	London	Inspection Direction:	Downstream	Upstream Node:	M/H 4
Road:	Horniman School	Inspected Length:	22.57 m	Upstream Pipe Depth:	1.750 m
Location:	Under a building	Total Length:	22.57 m	Downstream Node:	MAINLINE - M/H 3
Surface Type:		Joint Length:		Downstream Pipe Depth:	0.000 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:		Dia/Height:	225 mm		
Flow Control:		Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:195	Position [m]	Code	Observation	MPEG	Photo	Grade
<div> <div> <div>Depth: 1.75 m</div> <div>M/H 4</div> </div> <div> <div>0.00</div> <div>0.00</div> <div>1.44</div> <div>5.93</div> <div>7.98</div> <div>22.57</div> </div> <div> <div>MH</div> <div>WL</div> <div>B</div> <div>CC</div> <div>CN</div> <div>MHF</div> </div> <div> <div>Start node, manhole, reference: 4</div> <div>Water level, 0% of the vertical dimension</div> <div>Broken pipe at 5 o'clock</div> <div>Crack, circumferential from 2 o'clock to 5 o'clock</div> <div>Connection other than junction at 12 o'clock, 150mm dia</div> <div>Finish node, manhole, reference: 3</div> </div> <div> <div>00:00:02</div> <div>00:00:04</div> <div>00:00:34</div> <div>00:01:21</div> <div>00:01:42</div> <div>00:04:23</div> </div> <div> <div>20220217-121917-sn ap0000.jpg</div> <div>M_H 4X_4108fb bc-3dd6-4</div> <div>M_H 4X_aba86 05c-8b30-</div> <div>M_H 4X_ec433 afb-104d-4</div> <div>20220217-121917-sn ap0001.jpg</div> </div> <div> <div>4</div> <div>2 / 2</div> </div> </div>							
MAINLINE - M/H 3				Depth: 0.00 m			

Construction Features

Structural Defects

Miscellaneous Features

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
2	80.0	4.0	90.0	4.0	1	1.0	0.0	1.0	2.0

Section Pictures - 17/02/2022 - M/H 4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	M/H 4X		00251454



20220217-121917-snap0000.jpg, 00:00:02, 0.00 m
Start node, manhole, reference: 4



M_H
4X_4108fbbc-3dd6-4015-a3fe-9597ee2b423d_20220217_142
950_455.jpg, 00:00:34, 1.44 m
Broken pipe at 5 o'clock



M_H
4X_aba8605c-8b30-415c-8ca0-3a3fb9aebfbf_20220217_1430
55_938.jpg, 00:01:21, 5.93 m
Crack, circumferential from 2 o'clock to 5 o'clock



M_H
4X_ec433afb-104d-4d6d-b529-84c26a72ca62_20220217_143
155_326.jpg, 00:01:42, 7.98 m
Connection other than junction at 12 o'clock, 150mm dia

Section Pictures - 17/02/2022 - M/H 4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	M/H 4X		00251454



20220217-121917-snap0001.jpg, 00:04:23, 22.57 m
 Finish node, manhole, reference: 3