



**Project** 

Project Name: Horniman Primary School SE23 3BP

Project Description: SITE DRAINAGE SURVEY

Project Number: 00251454
Project Status: Complete
Project Date: 17/02/2022

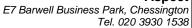




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Horniman Primary School SE23 3BP	00251454	17/02/2022

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aspect



### **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

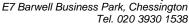
**Street:** E7 Barwell Business Park

Town or City: Chessington
County: Greater London

Post Code: KT9 2NY

**Phone:** 020 3930 1538

Horniman Primary School SE23 3BP





### **Project Information**

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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 wate 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.

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

# aspect

#### **Project Information**

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

#### **Drawing Legend**



Air Admitance Valve



Soakway (Foul Water)



Soakway (Rain Water)



**Squat Toilet** 



Collapse



Bath

Basin



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

Outlet



**Flowers** 



Pipe Trap



Manhole (Rain Water)



Grass



**Pumping Chamber** 



Inspection Chamber (Rain Water)



Other



Septic Tank



Rainwater Downpipe



Tree (Side)



Shower



Roadside Gully



Tree (Top)



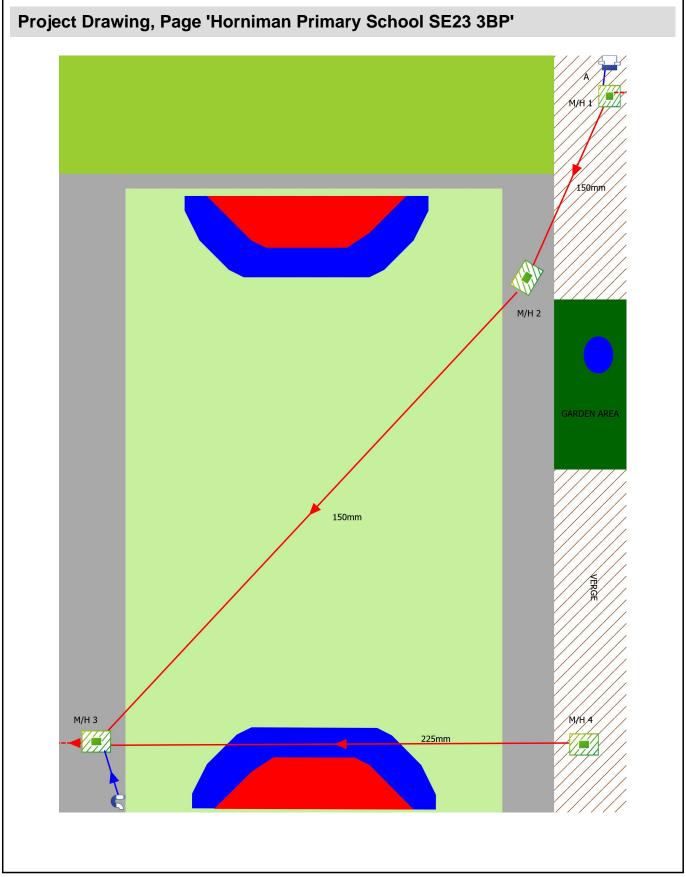
Sink



Aspect E7 Barwell Business Park, Chessington Tel. 020 3930 1538

### **Project Information**

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



# aspect

# **Project Pictures**

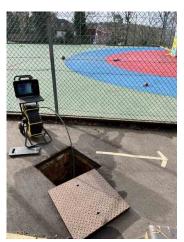
Project Name	Project Number	Project Date
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AREA OVERVIEW



**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 WEB PROJECT



	Item No.	Insp. No.	Date Time Client's Job Ref Weather Pre				Pre Cleaned	PLR	
١	1	1	17/02/22	11:15	Not Specified	No Rain Or Snow	No	BRANCH A - CATCH	PITX
ı	Operator Vehicle		Vehicle Camera		Preset Length	Legal Status	Alternative ID		
ı	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
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 surve	<b>y</b>	Lining Material:	No Lining	
Comments:			•		

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: 1.00	0 m					
	M/H 1						
(							
		0.00	MH	Start node, manhole, reference: 1	00:00:02	20220217- 111633-sn ap0000.jpg	
BRANC	CH A - CAT	0.00 FCH	WL	Water level, 0% of the vertical dimension	00:00:03	, ,,,	
(	PIT Depth: 0.00	0.19 0 m	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



Item No.

#### **WEB PROJECT** Section Inspection - 17/02/2022 - M/ H 1X Client`s Job Ref Insp. No. Date Time **Pre Cleaned** PLR 17/02/22 11:18 Not Specified No Rain Or Snow M/ H 1X No Operator Camera **Preset Length** Legal Status Alternative ID Vehicle DAN GREEN Not Specified Camera Van 1 Cctv 1 Not Specified Not Specified

	INCLIN		Camera van i		OCIV 1	140t Opco		140t Opcomed		1401 C	
Town or Vi	llage:	Long	don	Inspect	ion Direction:	Downstream	Ups	stream Node:		M/ H 1	
Road:		Horn	niman School	Inspect	ed Length:	16.11 m	Ups	stream Pipe De	epth:	1.000	m
Location:		Unde	er a building	Total L	ength:	16.11 m	Dov	vnstream Node	e:	MAINI	_INE - M/H 2
Surface Ty	ne:		J	Joint L	_		Dov	wnstream Pipe	Depth:		
Use:	pc.	Com	bined	Joint E	ingui.	Pipe Shape:		cular	Берии.	0.000	
		Com	ibirieu								
Type of Pip						Dia/Height:		) mm			
Flow Contr	ol:	No fl	low control			Material:	Cas	st iron			
Year Const	tructed:	Not :	Specified			Lining Type:	No	Lining			
Inspection	<b>Purpose</b>	: Sam	ple condition s	urvey		Lining Materi	al: No	Lining			
Comments	:										
Recommer	ndations:										
Casle: 1	.420	Daaitia	. [m] Ca	da Obas	tion			NA!	DEC	Dhata	Crada
		Positio	n [m] Co	de Obse	vation			IVII	PEG	Photo	Grade
Dep	th: 1.00 r	n									
M/ I	H 1										
	)										
	$\leftarrow$	0.00	_ M	H Start r	node, manhole,	reference: 1		00:0	00:02 2		
										11814-	
		0.00	14	// \/\/oto=	level 00% of the	yertical diman	eion	00:	a 00:02	p0000.j	pg
		<u> ∪.∪∪</u>	_ W	∟ vvaler	level, 0% of the	e vertical utiller	131011	00.0	00.02		
	\	_ 1.86	. W	L Water	level, 5% of the	e vertical dimer	sion	00:0	00:47		
		6.61	DI	EX Settle	d deposits, othe	r 15% cross-si	ectional area l	00.0	01:51 2	022021	17- 3
		0.01		SCAL		1, 1070 01033-3	ctional area i	000.		11814-	
										p0001.j	
🖖											
Y											
<u> </u>		16.11	_ MI	HF Finish	node, manhole	, reference: 2		00:0	03:25 2		
										11814-	
									а	p0002.j	μg
MAINLIN											
	th: 0.00 n										
Deb	U.UU I	"									
		Con	struction Featu	Ires			Mice	cellaneous Feat	ures		
			ructural Defec					Operational Ob		ns	
STR No. De	ef STR	Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER T		SER Grade
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/H1X		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



Operator

Item No.

#### **WEB PROJECT** Section Inspection - 17/02/2022 - M/H 2X OPEN THIS SECTIO Insp. No. Date Time Client's Job Ref Weather PLR **Pre Cleaned** 17/02/22 11:28 Not Specified No Rain Or Snow M/H 2X 3 No Camera Legal Status Alternative ID Vehicle Preset Length DAN GREEN Camera Van 1 Cctv 1 Not Specified Not Specified Not Specified

Road: Locatio		London Horniman Scl Under a build		Inspection Direction: Inspected Length: Total Length:	Downstream 27.36 m 27.36 m	Upstream Noc Upstream Pip Downstream I	e Depth: Node:	M/H 2 1.840 m MAINLINI	E - M/H 3
Surface	Туре:			Joint Length:	1	Downstream I	Pipe Depth	: 0.000 m	
Use:		Combined			Pipe Shape:	Circular			
Type of	-				Dia/Height:	150 mm			
Flow Co		No flow contro			Material:	Cast iron			
	nstructed:				Lining Type:	No Lining			
	ion Purpos	se: Sample condi	ition surve	ey .	Lining Material:	No Lining			
Comme Recomr	nts: nendation:	s:							
Scale:	1:236	Position [m]	Code	Observation			MPEG	Photo	Grade
	Depth: 1.84 M/H 2							2222247	
		0.00	МН	Start node, manhole,	reference: 2		00:00:02	20220217- 113011-sn	
		0.00	WL	Water level, 0% of the	e vertical dimension		00:00:03	ap0000.jpg	
<b>\</b>									
( MAIN	LINE - M/H	27.36	MHF	Finish node, manhole	, reference: 3		00:07:30	20220217- 113011-sn ap0001.jpg	

	Con	struction Feat	ures			Misc	ellaneous Feat	tures	
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 Gra				SER Grade
0 0.0 0.0 0.0 1.0					0	0.0	0.0	0.0	1.0

Depth: 0.00 m



#### **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
Ope	rator	Vehicle		Vehicle Camera		Legal Status	Alternative ID
DAN G	BREEN	Camera	a 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	У	Lining Material:	No Lining	
0 1 -	· · · · · · · · · · · · · · · · · · ·	·		·	

Comments:

Recommendations:



	Con	struction Feat	ures		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 Grad				SER Grade
0	0.0	0.0	0.0	1.0	0 0.0 0.0 0.0 1.				



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

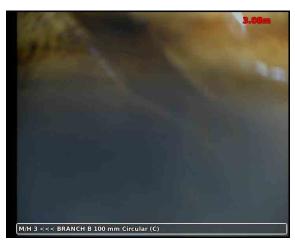
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	BRANCH B - GULLYX		00251454



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



Item No.

#### **WEB PROJECT** Section Inspection - 17/02/2022 - M/H 4X Insp. No. Time Client's Job Ref **Pre Cleaned** PLR 17/02/22 12:18 Not Specified No Rain Or Snow M/H 4X No Operator Camera Preset Length Legal Status Alternative ID Vehicle DAN GREEN Not Specified Camera Van 1 Cctv 1 Not Specified Not Specified

DANTONE		Odificia vaii		`	JCIV 1	140t Opcoi	nou	Not Opco	liou	1101	эрсспіса
Town or Villa	ge:	London		Inspection	on Direction:	Downstream	ι	Jpstream No	de:	M/H 4	1
Road:		Horniman School		Inspecte	d Length:	22.57 m	ι	Jpstream Pip	e Depth:	1.750	m
Location:		Under a building		Total Le	ngth:	22.57 m		Downstream I	Node:	MAIN	LINE - M
Surface Type	):			Joint Le	ngth:			Downstream I	Pipe Depth	: 0.000	m
Use:		Combined				Pipe Shape:		Circular			
Type of Pipe:	!					Dia/Height:		225 mm			
Flow Control:						Material:		/itrified clay			
Year Constru		Not Specified				Lining Type:		No Lining			
			0.15.40					•			
nspection Pu	urpose:	Sample condition	Surve	у		Lining Materia	ali I	No Lining			
Comments: Recommenda	ations:										
Scale: 1:19		sition [m] C	ode	Observ	ation				MPEG	Phot	o Gra
Depth: M/H 4	: 1.75 m I										
	)	0.00_	ИΗ	Start no	ode, manhole,	reference: 4			00:00:02	202202	17-
		0.00	VIII	Start III	ode, marinole,	reference. 4			00.00.02	121917	
										ap0000	
	\	0.00	ΝL	Water I	evel, 0% of the	e vertical dimen	sion		00:00:04		
		1.44	В	Broken	pipe at 5 o'clo	ck			00:00:34	M_H	l 4
	_	1.44	D	DIOREII	pipe at 3 0 cio	CK			00.00.34	4X_410	
										bc-3dd	
		5.93	CC	Crack,	circumferential	from 2 o'clock	to 5 o'cloc	k	00:01:21	M_H	2/
										4X_aba	
										05c-8b	
0		7.98	CN	Connec	ction other than	junction at 12	o'clock, 15	0mm dia	00:01:42	M_H	
										4X_ec4 afb-104	133 d-4
<b>*</b>											
<b>'</b>											
	2	)2 57 N	1HF	Einiah -	odo monholo	roforonco: 2			00:04:23	202202	17
		22.57 N	יוחר	LIUSU I	node, manhole	, reference: 3			00.04.23	121917	
	)									ap0001	
										-	<del>-</del>
MAINLINE -	- M/H 3										
Depth:	: 0.00 m										
		Construction Fea	turos				N.	Miscellaneous	Features		
		Structural Defe						<ul> <li>&amp; Operational</li> </ul>		ione	
STR No. Def	STR Pe			R Total	STR Grade	SER No. Def	SER Pea			Total	SER Gr
2	80.0		+	90.0	4.0	1	1.0	OLIVING		)	2.0

0.08

90.0

4.0

1.0

0.0

1.0



#### **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