

CCTV REPORT

CLIENT: CSL Surveys

JOB NO: 14230

PROJECT: Police Headquarters
Stanborough
Welwyn Garden City
AL8 6PH

DATE: October 2020

REVISION: -



INSTRUCTIONS FOR VIEWING REPORT

VIEWING VIDEO CLIPS

Please ensure that the Video viewing software is able to play 'MPEG Layer-4 Audio File (MP4)' type. We recommend to use 'Windows Media Player' for Microsoft operating systems and 'Quick Time Player' for Apple Mac operating systems. We recommend to check that the file type: 'MPEG Layer-4 Audio' is enabled within the settings.

NAVIGATING THE PDF REPORT

For this you will require 'ADOBE READER 6' or later version

The CCTV PDF file can be run direct from the disc

In each section of the report the text for DRAWING, REPORT, VIDEO or IMAGE (if relevant) is a toggle switch between the various details, so by clicking the mouse arrow on the text it will navigate to the section of the report that the text represents.



DEFECT GRADE DESCRIPTIONS

- 0 **NO DEFECT** Drainage feature eg. Junction, line change, manhole.
No action required.
- 1 **VERY MINOR DEFECT** eg. Attached / Settled Deposits 5% - 15%.
No action required.
- 2 **MINOR DEFECT** Observed defect does not appear to be currently causing an issue with the function of the drain run. Defect may worsen if not appropriately maintained and monitored. No immediate action required.
- 3 **MEDIUM DEFECT** Observed defect does not appear to be currently causing an issue with the function of the drain run. Defect may worsen if not appropriately maintained and monitored. No immediate action required.
- 4 **MAJOR DEFECT** Observed defect is causing a significant issue with the function of the drain run. Immediate action is required to maintain the function of the drain run and prevent the defect from worsening.
- 5 **MAJOR DEFECT** Observed defect has caused the drain run to cease functioning. Immediate action is required.

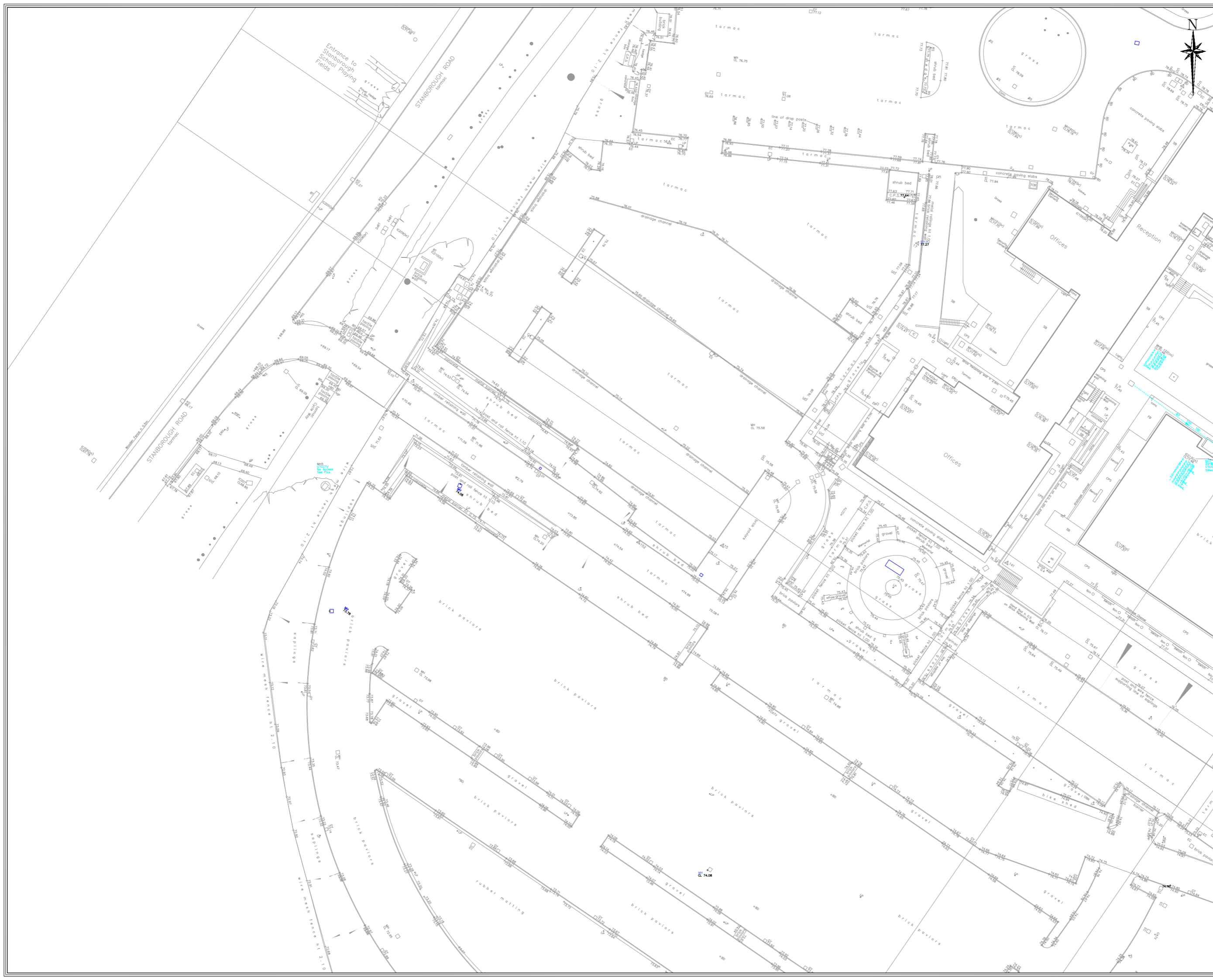
The above Defect Grade Descriptions are for advisory purposes only.

CCTV SURVEY DISCLAIMER

Amethyst Surveys has made every effort available to produce a high quality and in-depth survey, outlining all significant observations and where appropriate, relative remedial actions. We cannot, however, accept any liability for any misinterpretation by third parties in relation to the information contained herein. Also we cannot accept any liability for any change in invert levels recorded on site if the land detail changes from the date of this survey. The condition of the drains shown within this report are a representation of the areas surveyed on the date(s) of this report only.

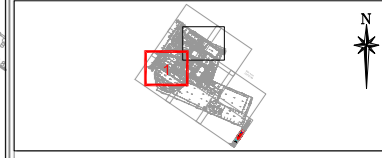
The CCTV camera unit chainage is calibrated before each survey. However, we cannot guarantee or accept liability that the recording of the chainage is exact and therefore recommend that all distance measurements are treated as approximate.





NOTES:

NAVIGATION KEY



- CCTV KEY**
- R1** RED CCTV RUN NUMBER DENOTES MAJOR FAULT
 - R2** AMBER CCTV RUN NUMBER DENOTES MINOR FAULT
 - R3** GREEN CCTV RUN NUMBER DENOTES NO FAULTS

- UTILITY KEY**
- FOUL WATER SEWER
 - SURFACE WATER SEWER
 - COMBINED WATER SEWER
 - CONTAMINATED SURFACE
 - UNIDENTIFIED SEWER
 - PUMPING MAIN
 - SERVICE DUCT
 - TRENCH SCAR
 - SURVEY BOUNDARY
 - CABLE / PIPE RISER
 - BACKDROP / TRAPPED EXIT
 - DRAINAGE VALVE
 - END OF TRACE
 - HEAD OF RUN / CAPPED
 - PIPE INLET / OUTFALL

- ABBREVIATIONS**
- | | | | |
|------|----------------------------------|--------|----------------------|
| AC | ASBESTOS CEMENT | LP | LAMP POST |
| AR | ASSUMED ROUTE | MH | MANHOLE |
| BB | BASE BEND | MW | MONITORING WELL |
| BD | BACKDROP | OH | OVERHEAD |
| BH | BOREHOLE | OSA | OFF SURVEY AREA |
| BR | BRICK | PE | POLYETHYLENE PLASTIC |
| BT | BT INSPECTION CHAMBER | PL | PIPE RISER |
| CATV | CATV INSPECTION CHAMBER | PVC | POLYVINYL CHLORIDE |
| CBX | CONTROL BOX | RVC | RODDING EYE |
| CI | CAST IRON | RWP | RAIN WATER PIPE |
| CL | COVER LEVEL | SIA | SOAKAWAY |
| CR | CABLE RISER | SI | SPRINKLER |
| CP | CATCHPIT | ST | STOP TAP |
| d | DEPTH | ST | STEEL |
| DI | DUCTILE IRON | SV | SLUICE VALVE |
| DP | DOWN PIPE | SVP | SOIL VENT PIPE |
| ED | EMPTY DUCT | TE | TRAPPED EXT |
| EOSC | END OF TRENCH SCAR | TEF | TAKEN FROM RECORD |
| EOT | END OF TRACE | TL | TRAFFIC LIGHT |
| ER | EARTHING ROD | TP | TELEGRAPH POLE |
| EP | ELECTRICITY POLE | UT | UNABLE TO FIND |
| ER | EARTH ROD | UTCCVT | UNABLE TO CCTV |
| EP | ELECTRICITY POLE | UTL | UNABLE TO LIFT |
| FN | FIRE HYDRANT | UTS | UNABLE TO SURVEY |
| FL | FLOOD LIGHT | VC | VITRIFIED CLAY |
| G | GULLY | VP | VENT PIPE |
| GPR | GROUND PENETRATING RADAR | VR | VAPOUR RECOVERY |
| GRP | GLASS REINFORCED PLASTIC | WL | WATER LEVEL |
| GV | GAS VALVE | WM | WATER METER |
| HL | HIGH LEVEL | WO | WASH OUT VALVE |
| HOR | HEAD OF RUN | | |
| IC | INSPECTION CHAMBER | | |
| IL | INVERT LEVEL | | |
| SWS | SURFACE WATER SEWER | | |
| CSWS | CONTAMINATED SURFACE WATER SEWER | | |
| FWS | FOUL WATER SEWER | | |
| CWS | COMBINED WATER SEWER | | |

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REV	DATE	COMMENT	CAD

CLIENT: **Vincent and Gorbng Limited**

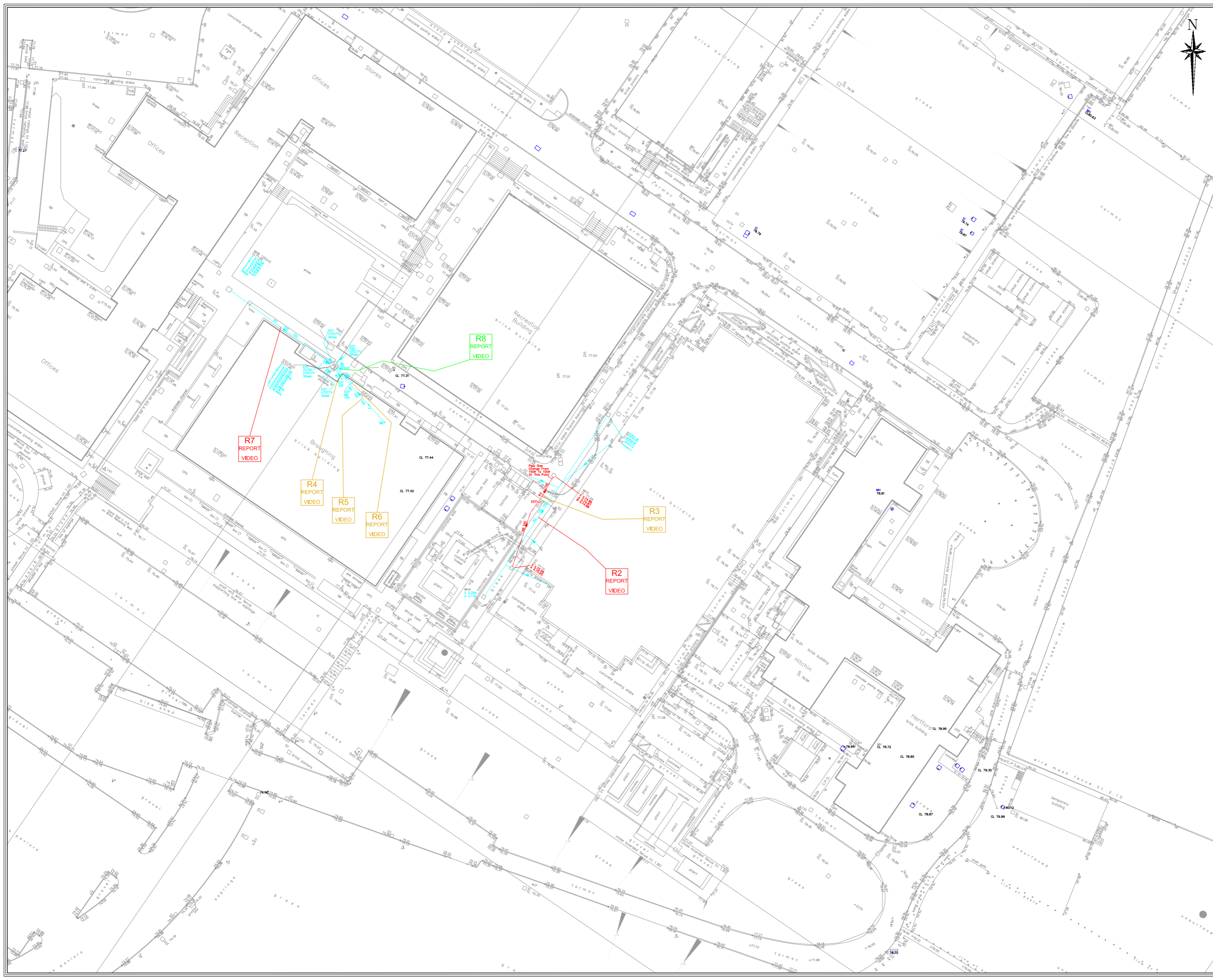
PROJECT: **Police HQ
Stanborough
Welwyn Garden City
AL8 6XF**

TITLE: **Underground
CCTV Drainage Survey**

AMETHYST SURVEYS LIMITED

Unit 6a Davy Court, Central Park
Rugby, Warwickshire, CV23 0UZ
Tel: 01788 566740
Fax: 01788 571158
Email: enquiries@amethystsurveys.com
www.amethystsurveys.com

DATE: 12.10.20	JOB No: 14230
DRAWING No: 14230_CCTV_1	REV: 0
DRAWN: DOT	SURVEYED: AS
APPROVED: TPD	SCALE: 1:200 @A0



NOTES:

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UTILITY KEY

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- TRENCH SCAR
- SURVEY BOUNDARY

CABLE / PIPE RISER END OF TRACE
 BACKDROP / TRAPPED EXIT HEAD OF RUN / CAPPED
 DRAINAGE VALVE PIPE INLET / OUTFALL

ABBREVIATIONS

AC	ASBESTOS CEMENT	LP	LAMP POST
AR	ASSUMED ROUTE	MH	MANHOLE
BB	BASE BEND	MW	MONITORING WELL
BD	BACKDROP	OH	OVERHEAD
BH	BOREHOLE	OSA	OFF SURVEY AREA
BR	BRICK	PE	POLYETHYLENE PLASTIC
BT	BT INSPECTION CHAMBER	PL	PIPE
CATV	CATV INSPECTION CHAMBER	PR	PIPE RISER
CBX	CONTROL BOX	PVC	POLYVINYL CHLORIDE
CI	CAST IRON	RE	RODDING EYE
CL	COVER LEVEL	RWP	RAIN WATER PIPE
CR	CABLE RISER	SIA	SOAKAWAY
CP	CATCHPIT	SR	SPUN IRON
d	DEPTH	ST	STOP TAP
DI	DUCTILE IRON	S.T	STEEL
DP	DOWN PIPE	SV	SLUICE VALVE
ED	EMPTY DUCT	SVP	SOIL VENT PIPE
EOESC	END OF TRENCH SCAR	TE	TRAPPED EXIT
EOT	END OF TRACE	TFR	TAKEN FROM RECORD
ER	EARTHING ROD	TL	TRAFFIC LIGHT
EP	ELECTRICITY POLE	TP	TELEGRAPH POLE
FH	FIRE HYDRANT	UTCCVT	UNABLE TO CCTV
FL	FLOOD LIGHT	UTF	UNABLE TO FIND
G	GULLY	UTL	UNABLE TO LIFT
GPR	GROUND PENETRATING RADAR	UTS	UNABLE TO SURVEY
GRP	GLASS REINFORCED PLASTIC	VC	VITRIFIED CLAY
GV	GAS VALVE	VP	VENT PIPE
HL	HIGH LEVEL	VR	VAPOUR RECOVERY
HOR	HEAD OF RUN	WL	WATER LEVEL
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REV	DATE	COMMENT	CAD

CLIENT: Vincent and Goring Limited

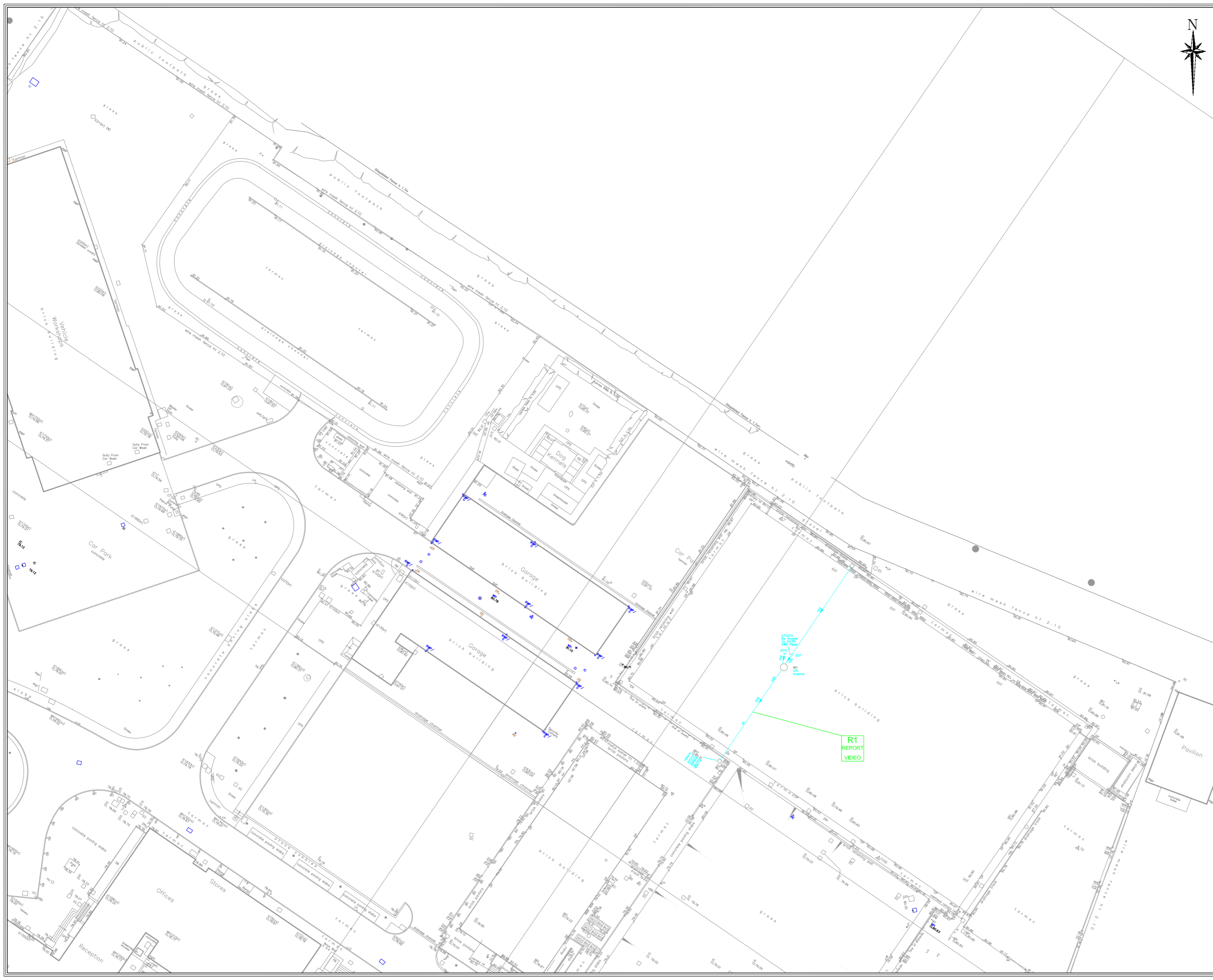
PROJECT: Police HQ
Stanborough
Welwyn Garden City
AL8 6XF

TITLE: Underground
CCTV Drainage Survey

AMETHYST SURVEYS LIMITED

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DATE: 12.10.20	JOB No: 14230
DRAWING No: 14230_CCTV_2	REV: 0
DRAWN: DOT	SURVEYED: AS
APPROVED: TPD	SCALE: 1:200 @A0



NOTES:

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| BD BACKDROP | OH OVERHEAD |
| BH BOREHOLE | OSA OFF SURVEY AREA |
| BR BRICK | PE POLYETHYLENE |
| BT BT INSPECTION CHAMBER | PL PLASTIC |
| CATV CATV INSPECTION CHAMBER | PR PIPE RISER |
| CBX CONTROL BOX | PVC POLYVINYL CHLORIDE |
| CI CAST IRON | RE RODDING EYE |
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| CP CATCHPIT | SI SPUN IRON |
| d DEPTH | ST STOP TAP |
| DI DUCTILE IRON | S.T STEEL |
| DP DOWN PIPE | SV SLUICE VALVE |
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| ER EARTHING ROD | TL TRAFFIC LIGHT |
| EP ELECTRICITY POLE | TP TELEGRAPH POLE |
| FH FIRE HYDRANT | UTCCTV UNABLE TO CCTV |
| FL FLOOD LIGHT | UTF UNABLE TO FIND |
| G GULLY | UTL UNABLE TO LIFT |
| GPR GROUND PENETRATING RADAR | UTS UNABLE TO SURVEY |
| GRP GLASS REINFORCED PLASTIC | VC VITRIFIED CLAY |
| GV GAS VALVE | VP VENT PIPE |
| HL HIGH LEVEL | VR VAPOUR RECOVERY |
| HOR HEAD OF RUN | WL WATER LEVEL |
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CLIENT: Vincent and Goring Limited

PROJECT: Police HQ
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AL8 6XF

TITLE: Underground
CCTV Drainage Survey

AMETHYST SURVEYS LIMITED

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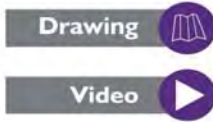
Tel: 01788 566740
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DATE: 12.10.20	JOB No: 14230
DRAWING No: 14230_CCTV_3	REV: 0
DRAWN: DOT	SURVEYED: AS
APPROVED: TPD	SCALE: 1:200 @A0



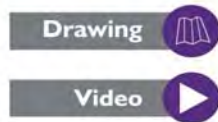
CCTV REPORT



Date: 12/10/2020

Run No:	1	Weather:	Dry	Duty:	Surface
Start:	MH1	Upstream To	Destination:	MH Internal	
Material:	PVC	Shape:	Circular	Pipe size:	225
MH Condition:	Good	MH Defect:	None	Pre-Cleaned:	No
			Maximum Defect Grade:	0	
Distance	Defect				Grade
0.00	Water Level 0%				0
18.85	MH Internal				0
	End				0
	Water Level 0%				0
	Pipe size changes at the internal manhole.				

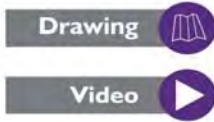
CCTV REPORT



Date: 12/10/2020

Run No:	2	Weather:	Dry	Duty:	Surface
Start:	MH2	Downstream To	Destination:	MHA	
Material:	Vitrified Clay	Shape:	Circular	Pipe size:	100
MH Condition:	Good	MH Defect:	None	Pre-Cleaned:	No
			Maximum Defect Grade:	4	
Distance	Defect				Grade
0.00	Water Level 0%				0
1.75	Dimension of Drain/Sewer Changes to 150mm Diameter				0
13.95	Junction at 10 O'clock				0
14.38	Open Joint Medium				2
14.73	Junction at 3 O'clock				0
24.83	Junction at 10 O'clock				0
24.90	Joint Displacement Large				4
31.13	Junction at 11 O'clock				0
31.32	Open Joint Large				4
33.49	Open Joint Medium				2
34.08	Open Joint Large				4
34.52	MHA				0
	End				0
	Water Level 0%				0


CCTV REPORT




Date: 12/10/2020

Run No:	3	Weather:	Dry	Duty:	Foul
Start:	MH3	Upstream To	Destination:	End of Trace	
Material:	Vitrified Clay	Shape:	Circular	Pipe size:	150
MH Condition:	Good	MH Defect:	None	Pre-Cleaned:	No
			Maximum Defect Grade:	3	
Distance	Defect				Grade
0.00	Water Level 5%				0
0.37	Dimension of Drain/Sewer Changes to 100mm Diameter				0
0.40 - 0.75	Attached Deposits Grease from 11 O'clock - 1 O'clock 5%				1
0.40 - 4.84	Attached Deposits Grease from 5 O'clock - 7 O'clock 5%				1
0.83	Open Joint Medium				2
4.84	Line of Drain/Sewer Deviates Right Quarter Turn				0
4.84 - 5.08	Attached Deposits Grease from 5 O'clock - 7 O'clock 20%				3
5.03 - 5.08	Loss of Vision Due To Debris				1
5.08	Unable to Proceed Due to Attached Deposits Grease				3
5.08	End of Trace				0
	Water Level 5%				0

CCTV REPORT

Drawing 

Video 



Date: 12/10/2020

Run No:	4	Weather:	Dry	Duty:	Surface
Start:	MH4	Upstream To	Destination:	End of Trace	
Material:	Vitrified Clay	Shape:	Circular	Pipe size:	100
MH Condition:	Silted	MH Defect:	None	Pre-Cleaned:	No
			Maximum Defect Grade:	3	
Distance	Defect				Grade
0.00	Water Level 0%				0
0.11	Crack Circumferential from 12 O'clock - 12 O'clock				2
0.33	Joint Displacement Medium				2
0.98	Joint Displacement Medium				2
1.60 - 1.90	Settled Deposits Coarse 20%				3
1.90	Unable to Proceed Due to Settled Deposits Coarse				3
1.90	End of Trace				0
	Water Level 0%				0

CCTV REPORT



Date: 12/10/2020

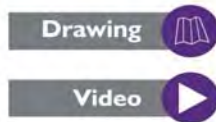
Run No:	5	Weather:	Dry	Duty:	Surface
Start:	MH4	Upstream To	Destination:	Base Bend	
Material:	Vitrified Clay	Shape:	Circular	Pipe size:	100
MH Condition:	Roots	MH Defect:	None	Pre-Cleaned:	No
			Maximum Defect Grade:	2	
Distance	Defect				Grade
0.00	Water Level 0%				0
3.22	Crack Circumferential from 12 O'clock - 12 O'clock				2
3.52	Crack Circumferential at Joint from 12 O'clock - 12 O'clock				2
5.40	Joint Displacement Medium				2
5.40	Material of Drain/Sewer Changes to PVC				0
8.24	Line of Drain/Sewer Deviates Right Quarter Turn				0
8.24	Joint Displacement Medium				2
8.43	Junction at 12 O'clock				0
8.75	Junction at 3 O'clock				0
9.08	Open Joint Medium				2
9.08	Material of Drain/Sewer Changes to Vitrified Clay				0
10.95	Debris / Silt 5%				1
12.30	Base Bend				0
	End				0
	Water Level 0%				0

Client: CSL Surveys

Job No.: 14230

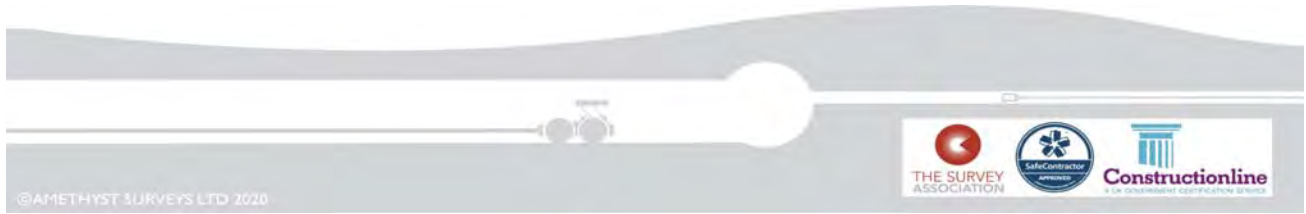
Police HQ, Stanborough
Welwyn Garden City
AL8 6PH

CCTV REPORT



Date: 12/10/2020

Run No:	6	Weather:	Dry	Duty:	Surface
Start:	MH4	Upstream To	Destination:	Gully	
Material:	Vitrified Clay	Shape:	Circular	Pipe size:	100
MH Condition:	Roots	MH Defect:	None	Pre-Cleaned:	No
				Maximum Defect Grade:	2
Distance	Defect				Grade
0.00	Water Level 5%				0
0.00 - 3.76	Attached Deposits Encrustation from 5 O'clock - 7 O'clock 5%				1
0.83	Line of Drain/Sewer Deviates Left Quarter Turn				0
2.89	Joint Displacement Medium				2
3.29	Joint Displacement Medium				2
3.76	Gully				0
	End				0
	Water Level 5%				0



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Run No:	7	Weather:	Dry	Duty:	Surface
Start:	MH4	Upstream To	Destination:	MHB	
Material:	Pitch Fibre	Shape:	Circular	Pipe size:	100
MH Condition:	Roots	MH Defect:	None	Pre-Cleaned:	No
			Maximum Defect Grade:	5	
Distance	Defect				Grade
0.00	Water Level 5%				0
18.02	Hole in Drain/Sewer at 11 O'clock				5
18.35	Hole in Drain/Sewer at 11 O'clock				5
20.02 - 20.65	Attached Deposits Encrustation from 6 O'clock - 7 O'clock 10%				2
20.65	MHB				0
	End				0
	Water Level 0%				0

CCTV REPORT

Drawing 

Video 



Date: 12/10/2020

Run No:	8	Weather:	Dry	Duty:	Surface
Start:	MH4	Upstream To		Destination:	Capped Off
Material:	Vitrified Clay	Shape:	Circular	Pipe size:	100
MH Condition:	Roots	MH Defect:	None	Pre-Cleaned:	No
				Maximum Defect Grade:	0
Distance	Defect				Grade
0.00	Water Level 0%				0
0.00	Capped Off				0
	End				0
	Water Level 0%				0