

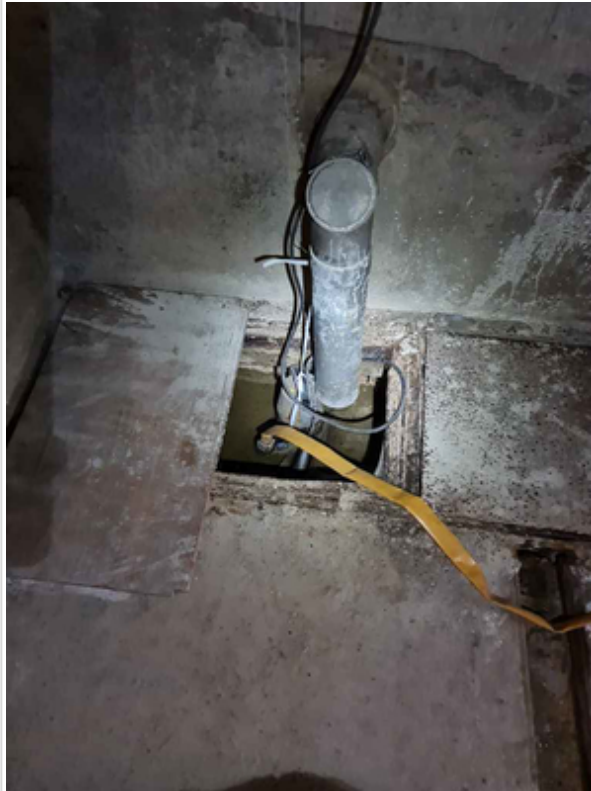
Site Survey Form



Site Survey Form

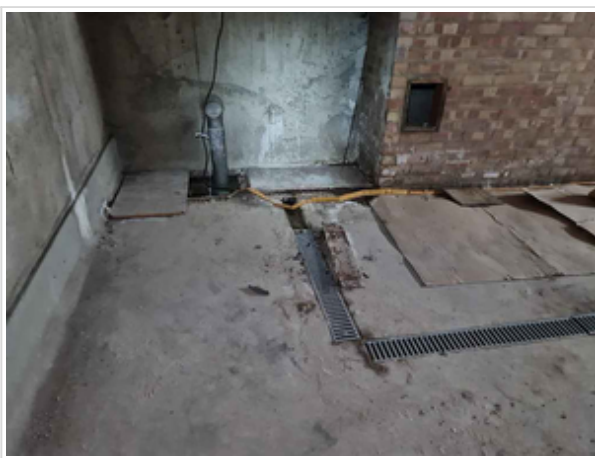


Site Survey Form



MANHOLE WHICH GOES
TO MH7/FL

Site Survey Form

		
		
Waste Gully?	No	
SVP (Soil Vent Pipework)	Yes	

Site Survey Form

Please take a picture

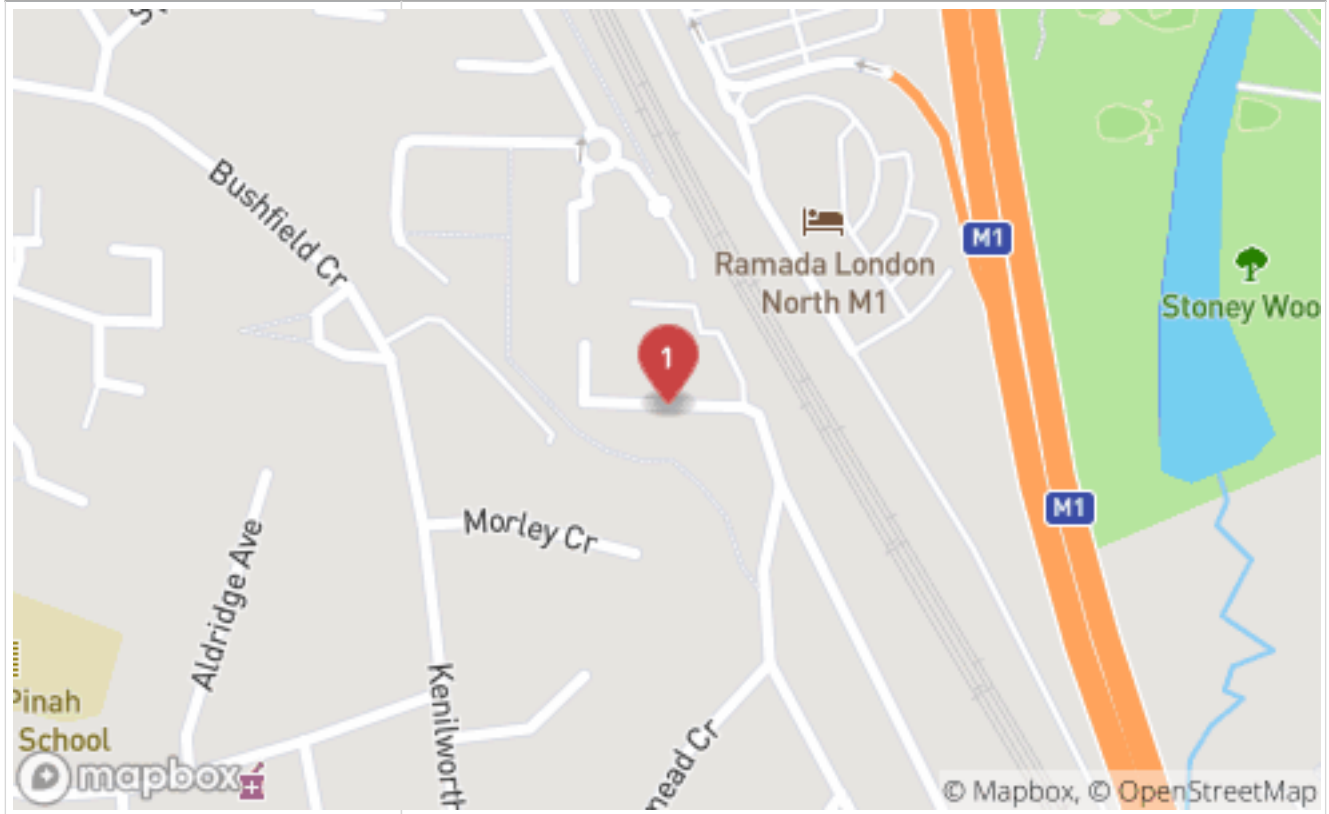


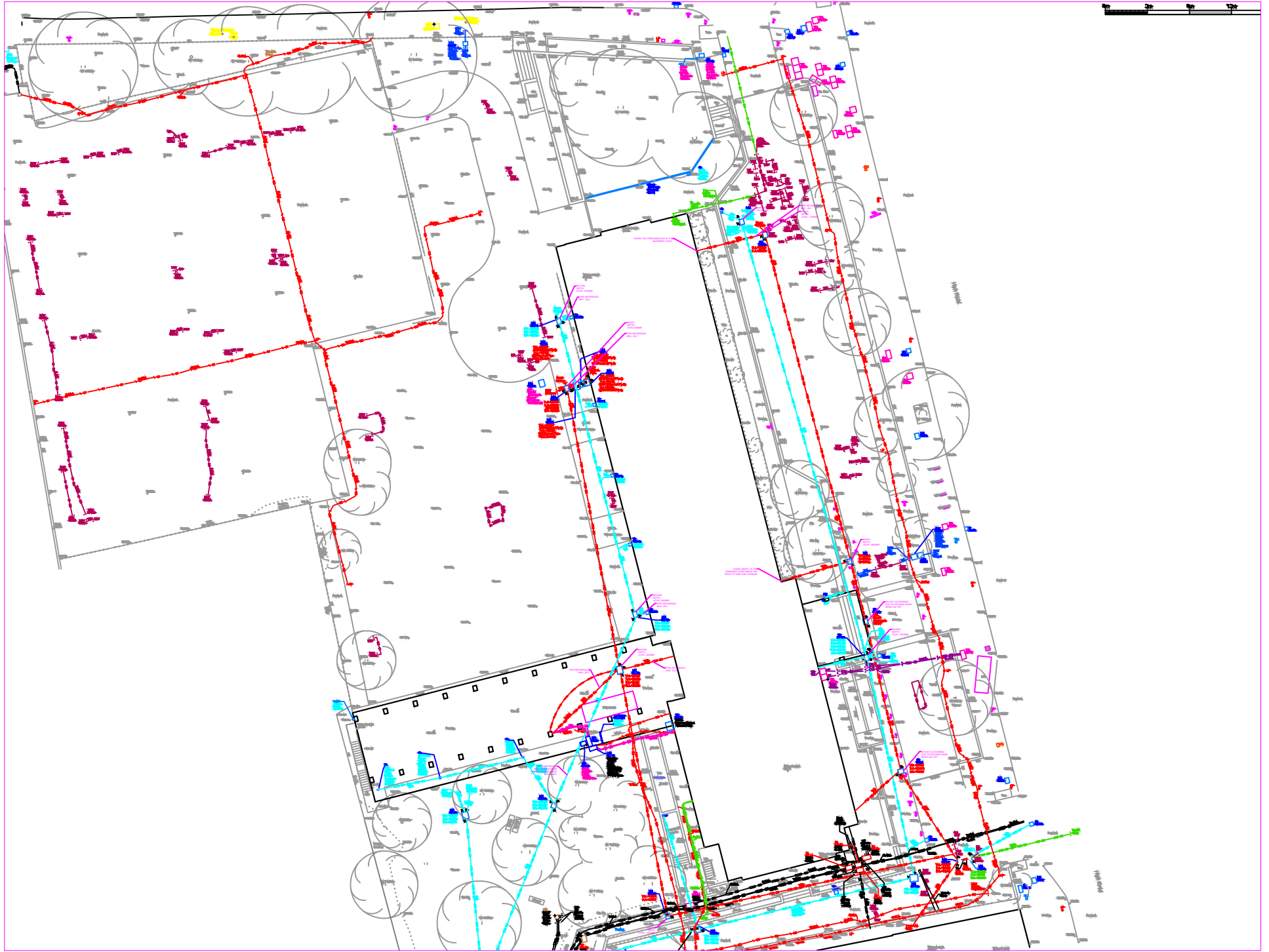
Site Survey Form

Please take a picture the back of the property	
For the operatives only:	You are agreeing that you have carried out all the necessary checks and followed the company's procedure Thank You
For Client only	I can confirm that I have supervised the works and satisfied with the works provided. Thank You
Client's Print Name	not present
Signature	
	 51.628213, -0.265124 07/06/2021 18:14

Site Survey Form

Form Locations







Project Information

HARINGEY CIVIC CENTRE ,
HIGH ROAD,
WOOD GREEN ,

Engineer:
RICHARD

Date:
24/05/21

Reference:

Project Information

Filename	HARINGEY_CIVIC_CENTRE
Site Name/Number	HARINGEY CIVIC CENTRE
Street	HIGH ROAD
Town/Village	WOOD GREEN
Postcode	
Parking Restrictions	NONE
Client	Ms H Horton
Reference	
Drawing Number	
Reason	DRAIN MAPPING AND SURVEY
Engineer	RICHARD
Export Date	24/05/21
Export Time	02:29 PM
Weather	No rain or snow (D)

Appendix C Run-off calculations

Project	0044501 Haringey Civic Centre			Sheet No	1 of 3
Title	Preliminary Drainage Strategy Existing Run-Off			Revision	01
Element Description	External public realm and hardstanding	Prepared by:	JBC	Date:	02/02/23
		Checked by:		Date:	

Formula for calculating run-off from impermeable areas:

$$Q = 2.78 \times C \times i \times A$$

CIRIA C697

The SuDS Manual' Section 4.3.3

Q = design peak runoff (l/s)

C = non-dimensional runoff coefficient which is dependent on the catchment characteristics

i = rainfall intensity for the design return period (in mm/hr) and for a duration equal to the 'time of concentration' of the catchment

A = total catchment area being drained (ha)

Total catchment area (redline area) = 1.038 ha

Based on Hawkins Brown drawing (11.01.22)

Hardstanding = 5069.54 sqm

HCC-HBA-ZZ-RF-DR-A-000001

Roof = 1858.74 sqm

Softscape = 3452.42 sqm

Run-off coefficient

Hardstanding = 0.9

Roof = 1

Softscape = 0.4

Impermeable area = 0.7802 ha 75% of total area

Storm Return Period	Rainfall Intensity (mm/hr)	Existing Discharge (l/s)	
1 in 1 year	38.8	84.2	<i>Intensity from point rainfall based on Wallingford Procedure using FSR data</i>
1 in 2 years	50.24	109.0	<i>M5-60 = 20</i>
1 in 30 years	94.76	205.5	<i>r = 0.40</i>
1 in 100 years	121.48	263.5	<i>duration = 10 minutes</i>

Excluding softscape landscaped areas that do not contribute to brownfield runoff discharge to the public sewer.

Impermeable area = 0.6421 ha 62% of total area

Storm Return Period	Rainfall Intensity (mm/hr)	Existing Discharge (l/s)	
1 in 1 year	38.8	69.3	<i>Intensity from point rainfall based on Wallingford Procedure using FSR data</i>
1 in 2 years	50.24	89.7	<i>M5-60 = 20</i>
1 in 30 years	94.76	169.2	<i>r = 0.40</i>
1 in 100 years	121.48	216.9	<i>duration = 10 minutes</i>

**BURO HAPPOLD
ENGINEERING**

Project	0044501 Haringey Civic Centre	Sheet No	2 of 3
Title	Preliminary Drainage Strategy Proposed Run-off Rates	Revision	01
Element Description	External public realm and hardstanding	Prepared by	JBC
		Checked by:	Date:
		Date:	02/02/23

Proposed Restricted run-off

Storm Return Period	Greenfield runoff rate (l/s)	Greenfield runoff rate (l/s/ha)
QBAR	5.9	5.68
1 in 1 year	5.0	4.82
1 in 30 years	10.2	9.83
1 in 100 years	11.8	11.37

Rural Runoff Calculator

Micro Drainage

ICP SUDS

ICP SUDS Input (FSR Method)

Return Period (Years)

Area (ha)

SAAR (mm)

Soil

Growth Curve

Partly Urbanised Catchment (QBAR)

Urban

Region

Results

QBAR rural (l/s)

QBAR urban (l/s)

Return Period Flood

Region	QBAR (l/s)	Q (100yrs) (l/s)	Q (1 yrs) (l/s)	Q (30 yrs) (l/s)	Q (100 yrs) (l/s)
Region 1	5.9	10.0	5.0	9.0	10.0
Region 2	5.9	10.2	5.1	8.9	10.2
Region 3	5.9	9.5	5.0	8.9	9.5
Region 4	5.9	10.3	4.9	9.3	10.3
Region 5	5.9	12.4	5.1	10.5	12.4
Region 6/Region 7	5.9	11.8	5.0	10.2	11.8
Region 8	5.9	10.1	4.6	9.3	10.1
Region 9	5.9	9.5	5.2	8.7	9.5
Region 10	5.9	9.2	5.1	8.5	9.2

OK Cancel Help

Enter Return Period between 1 and 1000

BUROHAPPOLD
ENGINEERING

Project	0044501 Haringey Civic Centre			Sheet No	3 of 3
Title	Preliminary Drainage Strategy Proposed Run-off Rates & Attenuation			Revision	01
Element Description	External public realm and hardstanding	Prepared by	JBC	Date:	02/02/23
		Checked by:		Date:	

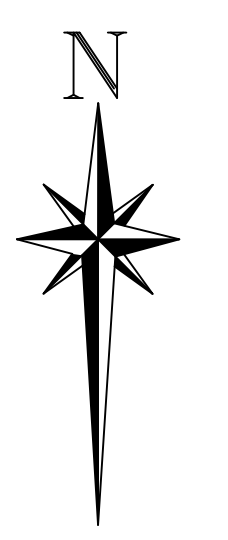
Catchment 1	Area sqm	Runoff coe	Eff area	Run-off rat	Storage	Q100 runoff	Storage
Annex + link building	803	1	803				
Hardscape	650	0.9	585	1.3	116	2.7	99
Softscape	639	0.3	191.7				
Existing mature tree's	253	-	-				
Total	2345		1579.7				

Catchment 2	Area sqm	Runoff coe	Eff area	Run-off rat	Storage	Q100 runoff	Storage
Annex + link + civic ce	1205	1	1205				
Hardscape	966	0.9	869.4	1.4	163	2.9	139
Softscape	105	0.3	31.5				
Existing mature trees	264	-	-				
Total	2540		2105.9				

Catchment 3	Area sqm	Runoff coe	Eff area	Run-off rat	Storage	Q100 runoff	Storage
Existing civic centre	1132	1	1132				
Hardscape	1831	0.9	1647.9	3.2	193	9.6	149
Softscape	116	0.3	34.8				
Existing mature trees	2416	-	-				
Total	5495		2814.7				

Total	10380		6500.3	5.9	472	15.2	387
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Appendix D Underground services survey



NOTES:
Unable to conclusively prove the route of the Gas main into site, possible readings found with GPR. Route assumed only.
Unable to locate PE Water main into site, no conclusive results with GPR.

UTILITY KEY
HV ELECTRIC CABLE
ELECTRIC & COMMS CABLE
IN SAME DUCT
ER EARTHING ROD / CABLE
TS TRAFFIC SIGNAL CABLE
TELECOM CABLE
TELECOM & COMMS CABLE
IN SAME DUCT
TV CABLE TELEVISION
COMMS COMMUNICATION CABLE
WATER PIPE
GAS PIPE
FOUL DRAINAGE
CONTAMINATED SURFACE
SURFACE DRAINAGE
COMBINED DRAINAGE
PUMPING MAIN
FUEL PIPE
VENT PIPE
HEATING PIPES
UNIDENTIFIED
EMPTY DUCTS
SERVICE DUCTS
TRENCH SCAR
GROUND DEPRESSION
SURVEY BOUNDARY
QL-A HORIZONTAL AND VERTICAL LOCATION OF THE UTILITY VISUALLY DETECTED ABOVE GROUND OR LOCATED WITHIN TRENCH, PITS, E, M, S ETC
B1 HORIZONTAL AND VERTICAL LOCATION OF THE UTILITY DETECTED BY MULTIPLE GEOPHYSICAL TECHNIQUES USED
B2 HORIZONTAL AND VERTICAL LOCATION OF THE UTILITY DETECTED BY ONE GEOPHYSICAL TECHNIQUES USED
B3 HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE GEOPHYSICAL TECHNIQUES USED (PASSIVE)
B4 A UTILITY SEGMENT WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN DETECTED AND IS THEREFORE SHOWN AS AN ASSUMED ROUTE.
QL-C A SEGMENT OF UTILITY WHOSE LOCATION IS DEMONSTRATED BY VISUAL REFERENCE TO STREET FURNITURE, TOPOGRAPHICAL FEATURES OR EVIDENCE OF PREVIOUS STREET WORKS.
QL-D A SEGMENT OF UTILITY WHOSE LOCATION CANNOT BE DEMONSTRATED BY VISUAL REFERENCE TO STREET FURNITURE OR TOPOGRAPHICAL FEATURES AND HAS BEEN DERIVED SOLELY FROM RECORD PLANS
CABLE / PIPE RISER
BACKDROP / TRAPPED EXIT
DRAINAGE VALVE
END OF TRACE
HEAD OF RUN / CAPPED
PIPE INLET / OUTFALL

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

DISCLAIMER
THE UTILITY SURVEY HAS BEEN CARRIED OUT IN ACCORDANCE WITH A PAS 128:2014 MPF SPECIFICATION, INCLUDING POST PROCESSING OF GROUND PENETRATING RADAR AND A MANHOLE SETA SURVEY. ELECTROMAGNETIC TECHNIQUES AND/OR GROUND PENETRATING RADAR HAVE BEEN USED IN THE LOCATION OF UNDERGROUND SERVICES. THE RESULTS ARE NOT INFALLIBLE AND TRAIL EXCAVATIONS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION POSITIONS AND PARTICULARLY DEPTHS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN SEARCHING AVAILABLE RECORD DRAWINGS, THE COMPLETENESS OF THE UNDERGROUND SERVICES INFORMATION CANNOT BE GUARANTEED. THE METHOD OF SURVEY DOES NOT DIFFERENTIATE BETWEEN LIVE AND DEAD SERVICES AND AS SUCH ALL SERVICES SHOULD BE TREATED AS LIVE, UNLESS OTHERWISE STATED.
WHERE SERVICES ARE NON-METALLIC POSITIONS MAY BE TAKEN FROM RECORDS, TRENCH SCARS & SURFACE DETAIL. WHERE QUOTED DEPTH ESTIMATES ARE GENERALLY TO THE CENTRE OF THE SERVICE, DEPTHS TO GRAVITY SEWERS AND DRAINS ARE GENERALLY TO INVERT LEVELS UNLESS OTHERWISE STATED.
PIPE SIZES WHICH CANNOT BE OBTAINED BY VISUAL SURVEY ARE TAKEN FROM RECORD DRAWINGS OR MARKER PLATES WHERE AVAILABLE.
WHERE GROUND PENETRATING RADAR HAS BEEN USED IT WILL PRIMARILY HAVE BEEN TO IDENTIFY UNDERGROUND UTILITIES IF POSSIBLE WE WILL ALSO IDENTIFY UNDERGROUND STRUCTURES (TANKS ETC) BUT CANNOT GUARANTEE TO HAVE LOCATED ALL SUCH ITEMS. THE USE OF RADAR CAN BE LIMITED BOTH BY SURFACE CONDITIONS AND ALSO BY SOIL TYPE. DEPTH ESTIMATES WOULD NOT NORMALLY BE PROVIDED FOR SERVICES LOCATED WITH GPR.

REV	DATE	COMMENT	CAD

CLIENT
Gleeds Building
Surveying Ltd

PROJECT
Haringey Civic Centre
High Road
Wood Green, London
N22 8JX

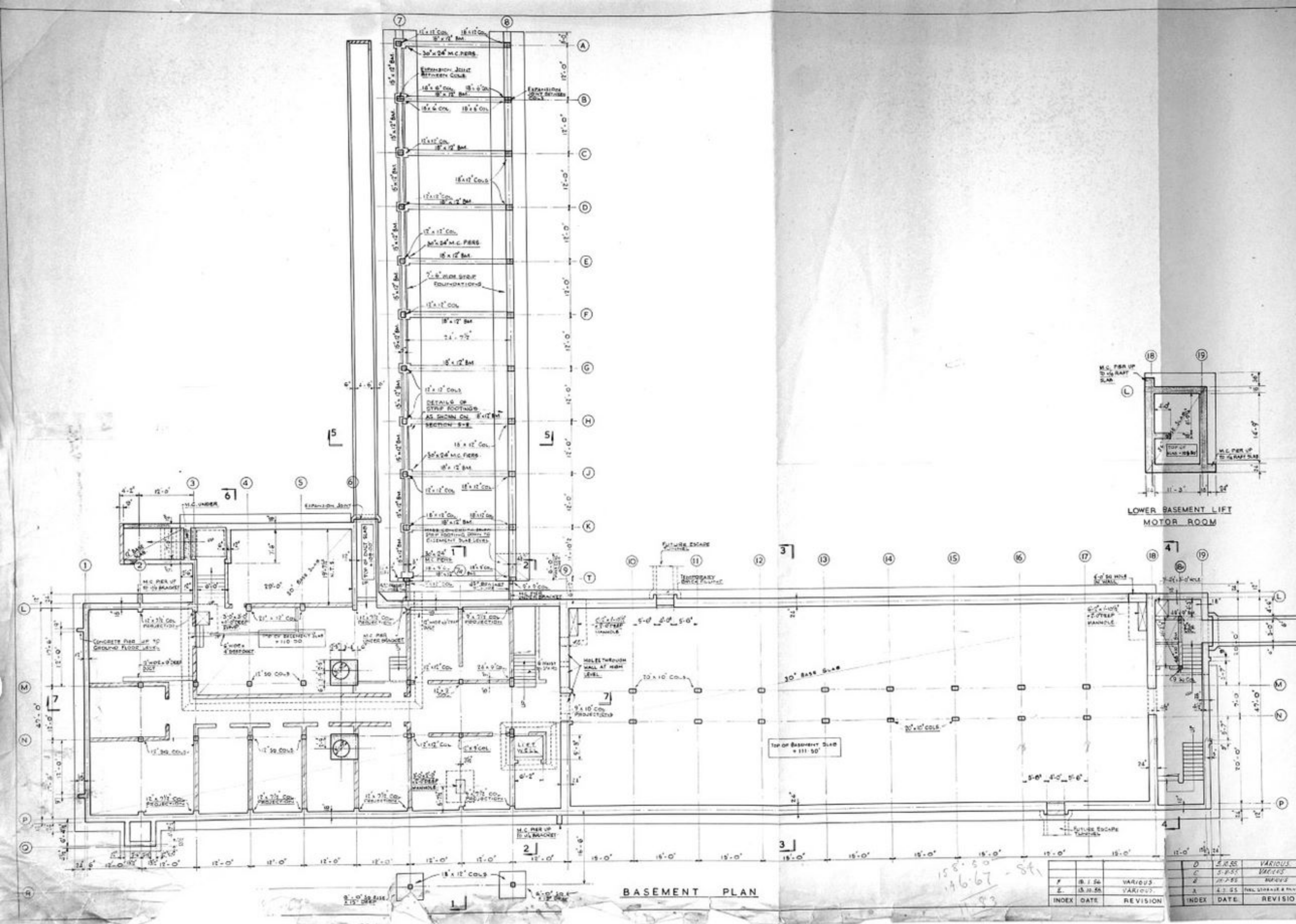
TITLE
Underground
Utility Survey

AMETHYST SURVEYS LIMITED
Unit 2 Davy Court, Central Park
Rugby, Warwickshire, CV23 0UZ
Tel: 01788 566740
Fax: 01788 571158
Email: enquiries@amethystsurveys.com
www.amethystsurveys.com

DATE: 26/05/2020	JOB No: 14093
DRAWING No: 14093_UG_1	REV: 0
DRAWN: SL	SURVEYED: MD/DN
APPROVED: CJW	SCALE: 1:200 @ A0

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Appendix E Historical basement general arrangement drawing



Received 21-1-56

KEY PLAN

1 COUNCIL CHAMBER
2 LINK BUILDING
3 OFFICE BLOCK
4 LIBRARY
5 LARGE HALL
6 SMALL HALL

**BOROUGH OF WOOD GREEN
PROPOSED CIVIC CENTRE**

**GENERAL ARRANGEMENT
BASEMENT PLAN**

SIR JOHN BROWN, A.E. HENSON & PARTNERS
CHARTERED ARCHITECTS
117 SLOANE STREET
LONDON S.W.1

WALTER C. ANDREWS O.B.E., M.I.C.E., M.I.E.S.T.
CONSULTING ENGINEER
167 VICTORIA ST. S.W.1

DATE: MAY 1955
DRAWN: J.C.
CHECKED:

SCALE: 1/8" TO ONE FOOT

DRG. No. C.511/21

INDEX	DATE	REVISION
D	5.8.55	VARIOUS
C	5.8.55	VARIOUS
B	18.1.56	VARIOUS
A	18.1.56	VARIOUS
F	18.1.56	VARIOUS
E	18.1.56	VARIOUS

Appendix F SuDS Proforma