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Revised Sustainable Drainage Strategy

Elliott Wood Partnership

elliottwood

50-56 Sheen Road, Richmond, TW9 1UG

Revised Sustainable Drainage Strategy

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		Remarks:	Issued for Planning				
Revision	P1	Prepared by:	Harry Hunter BEng (Hons)	Checked by:	Harry Hunter BEng (Hons)	Approved by:	Keri Trimmer MEng CEng MICE
Date:	05/05/2022	Signature		Signature		Signature	
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Date:	11/08/2022	Signature		Signature		Signature	

Contents

Appendices

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One

Executive Summary

Elliott Wood Partnership Ltd have been appointed to produce a Sustainable Drainage Strategy in support of the proposed redevelopment of the site at 50 - 56 Sheen Road, Richmond, TW9 1UG.

The site is situated to the northeast of the junction between Sheen Road and Church Road, covering the plots occupied by 50 - 56 Sheen Road. The national grid reference for the site is 518335 E, 175018 N.

The existing site is located within a Flood Zone 1 with a low flood risk from surface water runoff to adjacent land areas. As such, a site-specific Flood Risk Assessment is required for the development site, see report 2210561-EWP-ZZ-XX-RP-C-0001.

The existing site comprises the existing Richmond Inn hotel, which is a 44-bed hotel which has been vacant since its closure in March 2020.

The Richmond Inn is located on the corner of Sheen Road and Church Road in Richmond. The site extends to 0.13ha in total and comprises the hotel building (with ancillary meeting rooms and lounges) as well as a central courtyard area and surface car park for customers, which is accessed from Sydney Road. The main visitor entrance is provided at Sheen ~~Road~~.

The Sheen Road frontage comprises four storeys in total, whilst the Church Road and Sydney Road frontages provide three storeys of accommodation.

Thames Water sewer record mapping indicates the development site is served via a 150mm surface water sewer located in Church Street.

Surface water runoff from the proposed development will be attenuated in blue roof storage structures, geocellular attenuation and permeable paving, ensuring water is dealt with as close to source as possible while also improving the quality of water discharged from site. The sustainable drainage solutions on site will reduce the offsite discharge rate to provide a betterment of over 78% over the existing arrangement for the 1:100yr + 40%CC storm event.

Two

Introduction

Elliott Wood Partnership Ltd have been appointed to provide a Sustainable Drainage Strategy to support the full planning application for the proposed redevelopment at 50 - 56 Sheen Road, Richmond, TW9 1UG, located within the London Borough of Richmond upon Thames.

The purpose of this report is to explain the approach taken with regards to the below ground drainage strategy. It evaluates the selection of SuDS devices and highlights how the drainage disposal hierarchy has been followed.

This report has been prepared in accordance with the GOV.UK *Sustainable Drainage Systems: Non-statutory Technical Standards, London Local Plan 2021, London Borough of Richmond upon Thames Local Plan.*

Three

Site Context

The site is situated to the northeast of the junction between Sheen Road and Church Road, covering the plots occupied by 50 - 56 Sheen Road. The national grid reference for the site is 518335 E, 175018 N.

The site is located in the London Borough of Richmond upon Thames, situated 300m southeast of Richmond train station. The River Thames runs approximately 750m southwest of the site.

The total site boundary is approximately 0.14ha.

Figure 1: Site Location

A topographic survey of the site was undertaken by Mobile Cad Surveying Ltd in August 2020; this can be found in **Appendix A**.

The topographic survey shows that across the site, the levels along the site frontage on Sheen Road are largely flat and vary between 12.19 and 12.40mAOD. The building is set with an upper and lower ground floor with the primary entrance achieved via a set of steps from the building frontage on Sheen Road. The upper and lower ground levels are broadly 13.00 and 10.40mAOD respectively. A Lightwell is located either side of the primary access with a level of 11.20 to 11.40mAOD. Levels within the rear courtyard are largely flat around the building and fall towards the northern boundary from broadly 10.10m to 9.00m at the vehicular access which is also the low point of the site. The existing site consists of a single four-storey building split over two levels, which serves as a hotel.

The total area of the site is approximately 1,400m^2, of which 94% is currently considered to be positively drained impermeable area with soft landscaping comprising discreet hedged or tree pit areas only.

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Four

Underlying Geology

Review of the BGS maps show the site is situated on a bedrock of London Clay Formation with no superficial deposits. The nearest historical borehole is located approximately 270m to the west of the site on the site currently occupied by Waitrose. This borehole indicates 1.70m of made ground from the surface, above a layer of sandy clay, medium dense clayey gravel, dense medium to coarse sand and gravel before reaching stiff silty clay at 5.9mBGL.

Site specific intrusive ground investigation works are programmed to be undertaken to confirm the on-site ground conditions.

An initial borehole was taken on site which confirmed the site to be underlain by clayey sand over silt clay. A falling head test was undertaken at 2.50m BGL however the water level failed to drop within an hour of filling.

The preliminary borehole log can be found in **Appendix B**.

Five

Existing Drainage

Public sewer records have been obtained from Thames Water. An extract of the asset plan is shown in **Figure 2** below.

These show that the area is served by a network of foul water sewers within Church and Sydney Road. A surface water sewer is located beyond the northwest corner of the site and continues down Church Road.

There are two adopted foul water manholes located within the boundaries of the site which serve the development site only. These manholes are to be divested are part of the proposed works in agreement with Thames water.

A CCTV survey of the existing private drainage network was undertaken by Clearview Surveys Ltd in April 2022. The survey shows the site to be served by separate foul and surface water drainage networks. The existing foul water network comprises a mixture of 100 and 150mm diameter drains which ultimately discharge to Thames Water Manhole 3003 located into Sydney Road. The existing surface water network is comprised of 100mm diameter drainage and directs surface water runoff towards the north eastern corner of the site where it is understood to discharge to a PC ring soakaway.

The CCTV survey can be found in **Appendix C**.

Figure 2: Extract from Thames Water Sewer Records

The surface water runoff rates for the existing site have been calculated using the Modified Rational Method equation (based on CIRIA C697) and are shown in table 1:

Table 1 Existing Surface Water Run-off rates

Return Period	Rainfall Intensity (mm/hr)	Existing run-off (l/s)
1yr	31.7	12.0
30yr	79.9	30.3
100yr	101.9	38.7

Existing surface water discharge calculations can be found in **Appendix D**.

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Proposed Development

The development proposals seek to convert the existing hotel into an alternative type of visitor accommodation. The proposals will provide all of the facilities associated with a 4-star hotel, including private en-suite rooms, dining facilities, communal lounge and wellness treatments. In addition to this, the proposals will provide bespoke physiotherapy led rehabilitation and recovery centre including hydrotherapy pools and specialist gym equipment.

To facilitate the redevelopment of the site, it is proposed to demolish the extended buildings to the rear of the building which were all constructed since 1996, and retain the existing joined Victorian buildings on the site frontage. It is then proposed to reconstruct the demolished section of the building with a similar size and shape, extending further along the northern boundary and including an undercroft vehicle access. The lower ground floor will be constructed approximately 1m lower than the previous building.

The proposed development plans can be found in **Appendix E**.

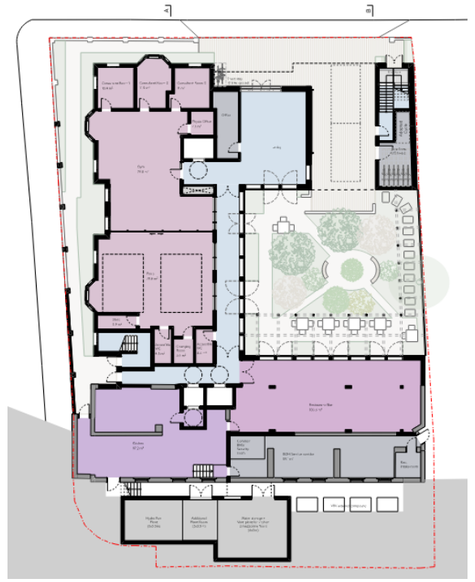

Figure 3: Proposed Lower Ground Floor Plan

Seven

Proposed Drainage

The surface water drainage system has been designed in accordance with the requirements of Planning Practice Guidance (PPG) and the London Borough of Richmond upon Thames SuDS Policy. The following drainage hierarchy has therefore been considered:

1) Rainwater use as a resource (for example rainwater harvesting, blue roofs for irrigation)
2) Rainwater infiltration to ground at or close to source.
3) Rainwater attenuation in green infrastructure features for gradual release (for example blue/green roofs, rain gardens).
4) Rainwater discharge direct to a watercourse (unless not appropriate)
5) Controlled rainwater discharge to a surface water sewer or drain.
6) Controlled rainwater discharge to a combined sewer.

Appraising the use of Rainwater Harvesting

It is not proposed to use rainwater harvesting techniques for the scheme due to the required space for an appropriately sized tank, and the additional complexity involved with the routing of mains water supply within the proposed building. The demand on the potable water supply will be reduced as much as possible through the use of low flow appliances.

Appraising the use of Infiltration Techniques

In order to comply with building regulations, infiltration techniques such as soakaways must not be installed within 5m of a building or highway. Due to the density of buildings on the site it is not possible to achieve this 5m offset from buildings.

A falling head infiltration test was undertaken during initial borehole surveys on site. The water level failed to drop from the filled level in the borehole. The underlying geology also comprises clay and silty clay.

Based on the above, infiltration has not been deemed feasible for this site.

Appraising the use of Open Water Features

As the external areas will be used as pedestrian and vehicular access, the available space for open water features is limited. Open water features are also deemed not to be feasible due to the proposed usage of the site.

Appraising the use of above and below ground attenuation

The current proposals include the use of blue roofs as indicated on the Proposed Below Ground Drainage Strategy.

A blue roof system restricts surface water at the rainwater outlets and provides temporary attenuation at roof level through the use of a layer of 129mm thick geocellular crate. A blue roof manages surface water closer to source (in line with CIRIA guidance) and provides attenuation that would otherwise be required below ground. The blue roof will incorporate a living roof finish, achieving the benefits of both a green and blue roof.

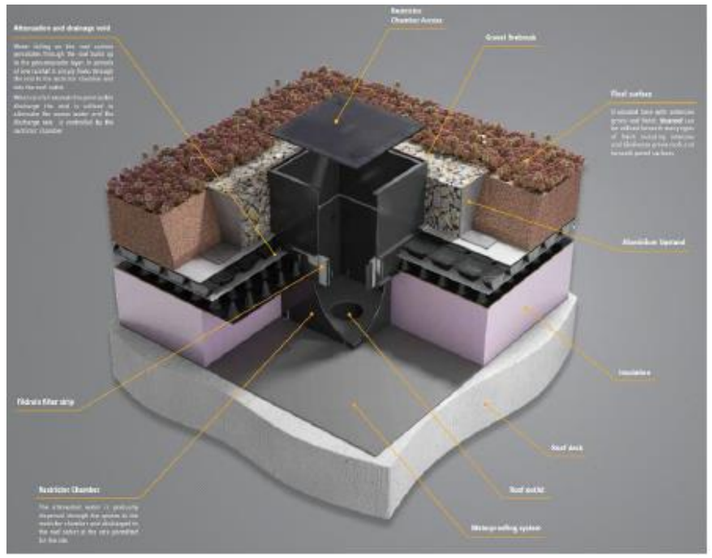

Figure 4: Typical blue roof construction (indicated with a living roof finish) (Source ABG Roofing Ltd)

Surface water will be discharged from the development site at a restricted rate to mimic greenfield runoff rates as close as possible, with attenuation provided by permeable paving, a geocellular attenuation tank and the blue roof system. The existing surface water sewer within Church Street is approximately 1.72m deep and it is therefore proposed to achieve a direct connection to the existing network via a gravity network. The surface water network will be designed to attenuate all modelled storm events, up to and including the 1 in 100-year return + 40% climate change allowance.

Appraising the use of permeable surfaces

The proposed development includes approximately 161m^2 of external hardstanding area in the central courtyard and to the rear of the site fronting Sydney Road. Permeable paving will be utilised in this area to provide attenuation storage for run-off from paved areas and roof areas not discharging to the blue roof. The introduction of permeable paving will help control surface water runoff at source, providing attenuation and filtration of runoff on these areas. In addition, there are areas of proposed loose gravel finish which will infiltrate to the underlying soil.

The evaluation of SuDS is demonstrated in Table 2 below.

Table 2 Evaluation of SuDS techniques

SuDS Technique	Y/N	Comment
Rainwater reuse	N	Rainwater reuse is not proposed for the scheme as it is proposed to reduce water usage rather than recycle rainwater. Rainwater will naturally be reused for irrigation purposes through the use of blue and green roofs.
Open Water features	N	The confined nature of the development makes open water features unfeasible.
Infiltration devices (i.e. Soakaways)	N	Soakaways are not deemed feasible for this site due to restricted space on site not allowing a minimum of 5m from buildings or roads. The underlying ground conditions are also not conducive to infiltration
Blue Roofs	Y	Blue roofs are proposed for the flat roof areas of the new building. This will allow surface water from the building to be restricted significantly without the need for below ground attenuation tanks.
Green Roofs	Y	Green roofs are to be provided as the finish over the blue roofs for the flat roof areas
Permeable Surfaces	Y	The proposed development will introduce new areas of permeable paving to a site which is currently almost completely impermeable. This will help improve the quality of surface water runoff drained via these areas and reduce the total volume of water discharged from site
Tanked systems	Y	Surface water attenuation in the form of geocellular crates are proposed to locally attenuate runoff from discreet roof and hard standing areas.

The London Borough of Richmond upon Thames and London Plan guidance states that developments should aim to achieve greenfield runoff rates wherever possible. The greenfield runoff for the site has been calculated using Micro Drainage and are shown in Table 3.

Table 3 Greenfield Runoff Rates (from MicroDrainage)

Return Period	Greenfield Runoff Rate (l/s)
1 in 1 year	0.18
1 in 30 years	0.49
1 in 100 years	0.68

It is proposed to utilise orifice plate flow controls, which will restrict surface water from the attenuation tank and permeable paved areas of the development site. Runoff entering the attenuation tank will be restricted to a peak discharge of 2.0 l/s for all storms up to an including the 1 in 100 year return + 40% climate change allowance. Similarly, the permeable paved areas will also be restricted to a peak discharge rate of 0.5 l/s and 1.5l/s respectively. Surface water runoff from the blue roofs will be restricted via

outlet restrictions and will give a peak discharge rate for the whole blue roof of 0.7/s. While the GFRRs are lower for the 1 in 1, 1 in 30 and 1 in 100-year return periods, the increased restriction of the flow control devices would increase the risk of blockage and subsequent flooding.

Surface water runoff from the roof area fronting Sheen Road, the lightwells and hard landscaping at ground level are to discharge to a packaged pumping station which will be located in the proposed plant room to the front of the site. The pump will discharge at a peak rate of 4.6l/s to the proposed gravity surface water on site and will feature emergency power back-up to ensure it remains operational during power outages.

The development will also utilise a blue roof system to reduce the runoff rate from the proposed building. This in turn reduces the need for attenuation below ground by dealing with rainwater closer to the source and slowing down the rate at which surface water from the building reaches the below ground network. ABG Ltd have provided calculations for the proposed blue roof system to be located at each of the roof and terrace levels. The ABG Ltd calculations have been included with **Appendix** F.

It is proposed for the hardstanding area comprising the central courtyard to be constructed utilising permeable surfaces. This will not only increase the time of entry into the accepting sewer network, but will also provide treatment of surface water runoff at source, improving the quality of water on site. The permeable pavement will be wrapped in a geotextile, allowing for a reduction in the offsite discharge volume through secondary losses and providing irrigation to the adjacent soft landscaped areas.

The proposed below ground surface water drainage network has been modelled using MicroDrainage software. The MicroDrainage network calculations have been included in **Appendix G.**

The post-development runoff improvement against the existing runoff has been provided in **Table 4.**

Table 4 Post Development Runoff Improvement

Return Period	Existing Runoff Rate (l/s)	Proposed Runoff Rate (l/s)	Percentage Betterment
1 in 1 year	12.0	6.0	50.0%
1 in 30 years	30.3	7.5	75.2%
1 in 100 years	38.7	8.2	78.8%
1 in 100 years + 40% Climate Change	N/A	9.0	>78.8%

As can be seen in the table above, although it is not possible to achieve greenfield runoff rates from the post-development site, a significant betterment can be achieved over the existing runoff rates. The proposed SuDS strategy reduces surface water runoff by over 78% in the 1 in 100 year return, with similar reductions in smaller storm events. The London Plan stipulates that for all new developments, offsite discharge rates should aim to be reduced to greenfield runoff rates as close as possible. The proposed SuDS strategy also draws on the CIRIA Four Pillars of SuDS by enhancing the amenity space available on site, and improving water quality through the water filtration benefits provided by the permeable paving.

The London Borough of Richmond upon Thames Surface Water Drainage Pro-forma for new developments has been completed and included within **Appendix H.**

The proposed below ground drainage layout has been included within **Appendix I.**

A Pre-planning enquiry was submitted to Thames Water to confirm the capacity of the downstream surface sewer network within Church Street. Thames Water have confirmed they are satisfied with the design proposals where there is a betterment of at least 50% for all storm events.

Eight

Foul Water Drainage

It is proposed to for the foul water network to drain via a gravity network, and discharge to the existing foul water manhole located towards the northern boundary of the site. A pre-development enquiry has been submitted to Thames Water who have confirmed there is sufficient capacity in the existing foul water network to accommodate ethe development flows. Refer to **Appendix J** for confirmation of sewer capacity.

For the kitchen and food preparation areas where high grease and fat content is anticipated, a grease trap shall be provided upstream of the wider network.

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Maintenance Requirements

All SuDS will be maintained by the building management company for the lifetime of the development in accordance with the SuDS Manual as summarised below. Maintenance requirements for the blue roof will be supplied by the specialist designer.

Modular System / Blue Roofs

Maintenance Schedule	Required Action	Recommended Frequency
Regular	Inspect and identify any areas that are not operating correctly. If required, take remedial action. Debris removal from catchment surface (where may cause risks to performance) Remove sediment from pre-treatment structures	Monthly for 3 months, then six monthly Monthly Annually, or as required
Remedial actions	Repair/rehabilitation of inlets, outlets, overflows and vents	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually and after large storms

Gullies / Linear channels

Inspection and removal of debris from silt trap once a year; preferably after leaf fall in the autumn.

Drainage pipes, manholes and silt traps

Inspect manholes & silt traps for build-up of silt and general debris once a year; preferably after leaf fall in the autumn. If silt/debris is building up, then clean with jetting lorry / gully sucker and inspect pipe – repeat cleaning if required. If the pipes to be jetted are plastic then a high flow, low pressure setting should be used so that the pipes are not damaged.

Unusual / unresolved problems

If the drainage system is still holding water following cleaning with a jetter, or the jetting of the system removes excessive amounts of debris this may indicate greater issues within the system. A CCTV survey is likely to be required and further advice should be sought from a drainage engineer.

NOTE: Manhole covers can be heavy and suitable lifting equipment / procedures should be used. Where possible, personnel should not enter manholes to carry out maintenance.

Permeable Paving

Regular inspection and maintenance are important for the effective operation of pervious pavements. Maintenance responsibility for a pervious pavement

and its surrounding area should be placed with an appropriate responsible organisation. The facility should be inspected regularly, preferably during and after heavy rainfall to check effective operation and to identify any areas of ponding.

Pervious surfaces need to be regularly cleaned of silt and other sediments to preserve their infiltration capability. Experience in the UK is limited, but advice issued with permeable precast concrete paving has suggested a minimum of three surface sweepings per year. Manufacturers' recommendations should always be followed.

A brush and suction cleaner, which can be a lorry-mounted device or a smaller precinct sweeper, should be used and the sweeping regime should be as follows:

- End of winter (April) – to collect winter debris.
- Mid-summer (July/August) – to collect dust, flower and grass-type deposits.
- After autumn leaf fall (November).

Care should be taken in adjusting vacuuming equipment to avoid removal of jointing material. Any lost material should be replaced.

Operation and maintenance requirements for permeable paving are described below.

Maintenance Schedule	Required Action	Frequency
Regular Maintenance	Brushing and vacuuming.	Three times/year at end of winter, mid-summer, after autumn leaf fall, or as required based on site-specific observations of clogging or manufacturers' recommendations.
Occasional maintenance	Stabilise and mow contributing and adjacent areas.	As required.
	Removal of weed.	As required.
Remedial actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50 mm of the level of the paving.	As required.
	Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users.	As required.
	Rehabilitation of surface and upper sub-structure.	As required (if infiltration performance is reduced as a result of significant clogging).
Monitoring	Initial inspection.	Monthly for three months after installation
	Inspect for evidence of poor operation and/or weed growth. If required take remedial action.	3-monthly, 48 h after large storms.
	Inspect silt accumulation rates and establish appropriate brushing frequencies.	Annually.
	Monitor inspection chambers.	Annually.

#

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Conclusion

In summary, following the advice and guidance provided by the London Borough of Richmond upon Thames, a SuDS strategy has been produced for the planning application associated with Richmond Inn, 50 – 56 Sheen Lane, Richmond.

The SuDS Hierarchy has been followed in order to employ the most suitable and practicable SuDS techniques to improve surface water run off rates from the site. The proposed development will restrict surface water run off to the public sewer to a peak discharge of 9.0l/s for the red line boundary. This provides a betterment on existing of over 78% for the 1 in 100-year event + 40% climate change event.

A blue roof system over the flat roof will reduce the peak runoff from the building and include a sedum finish, improving biodiversity and reducing the urban heat effect.

Permeable paving is provided for the central external hardstanding area and will reduce the peak runoff as well as improving the quality of surface water runoff.

Through the use of SuDS techniques, the surface water management of the proposed site will see a significant betterment from the existing case.

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Appendices

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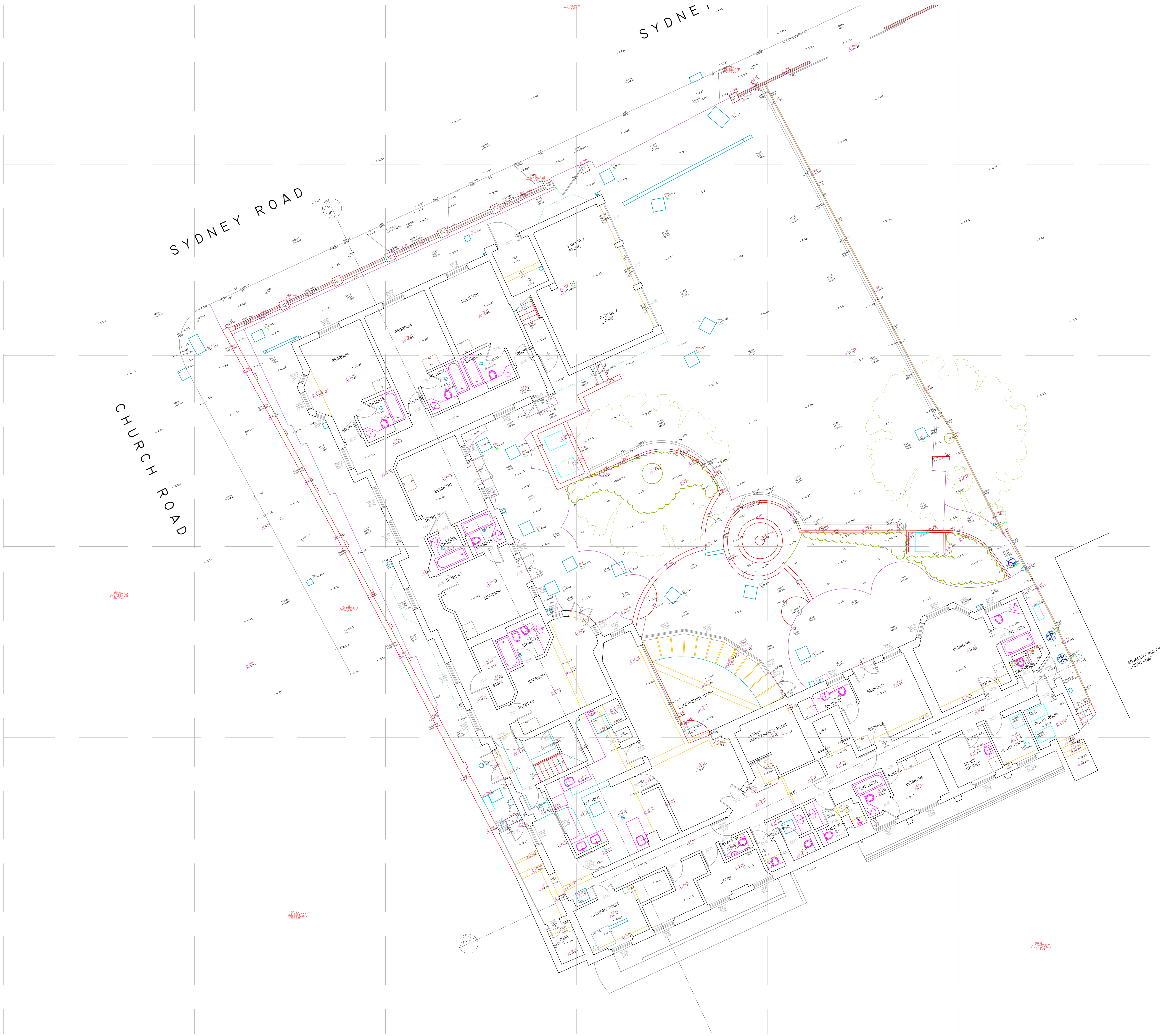
A Topographic Survey



LOWER GROUND FLOOR PLAN
1:100 Scale

NOTE:
AREAS DRAWN INDICATIVELY NOTED AND INDICATED BY GREY DASHED LINE AS LINE BELOW

LEVEL DATUM & ORIENTATION

N

LEVELS & DRAWING ORIENTATION CO-ORDIATED TO WORLD CO-ORDINATES USING GPS EQUIPMENT (SPECTRA SP60). PERMANENT STATIONS LOCATED IN POSITIONS INDICATED ON PLAN AS FOLLOWS:-

STN 01-	E-518329.393,	N-175048.217,	HT - 8.892M
STN 02-	E-518327.4526,	N-175039.2538,	HT - 9.118M
STN 03-	E-518337.735,	N-175044.9041,	HT - 8.908M
STN 04-	E-518305.6671,	N-175017.4208,	HT - 10.174M
STN 05-	E-518317.6783,	N-175016.7135,	HT - 10.832M
STN 06-	E-518314.9712,	N-175000.6864,	HT - 11.367M
STN 07-	E-518341.5629,	N-174993.3624,	HT - 12.394M
STN 08-	E-518352.5672,	N-174990.4566,	HT - 12.526M
STN 09-	E-518353.8725,	N-174999.0596,	HT - 12.373M

ABBREVIATIONS & LEGEND:

LEVELS & HEIGHTS

CL - COVER LEVEL
IL - INVERT LEVEL
L - LEVEL
HT - HEIGHT
STN - SURVEY STATION
BM - BEAM
CE - CEILING
J - JOISTS
RA - RAFTERS
E - EAVES
FR - FLAT ROOF
P - PARAPET
F - FENCE
U/S - UNDERSIDE OF
R - RIDGE
SL - SLAB
SF - SOFFIT
T - TREE
THR - THRESHOLD
To - TOP OF
W - WALL
HH - HEAD HEIGHT
OH - OPENING HEIGHT
SH - SILL HEIGHT

GENERAL NOTES

AB - ADVERTISING BOARD
AC - AIR CONDITIONING UNIT
AHU - AIR HANDLING UNIT
AP - INTRUDER ALARM PANEL
B - BOLLARD
BA - BARRIER
BE - BENCH
BS - BUS STOP
BLR - BOILER
BXO - BOXING OUT
CAH - CEILING ACCESS HATCH
CHY - CHIMNEY
CPD - CUPBOARD
DB - DOG WASTE BIN
DW - DWARF WALL
DK - DROP KERB
EDB - ELECTRICAL DISTRIBUTION BOARD
EG - EXTRACT GRILLE
EM - ELECTRIC METER
FB - FUSE BOX
FP - FIREPLACE
FU - FLUE
FAP - FIRE ALARM PANEL
GR - GRASS
GU - GUARDING
GM - GAS METER
HWC - HOT WATER CYLINDER
LAH - LOFT ACCESS HATCH
LB - LITTER BIN
LP - LAMP POST
PC - PELICAN CROSSING
PS - PAVING SLABS
PL - PAVEMENT LIGHT
PLT - PLANTING
PB - POST BOX
RG - RAILING
RS - ROAD SIGN
SB - SPEED BUMP
SG - SIGNAGE
SN - STREET NAME SIGN
SWR - SHOWER
SHV - SHELVING
TB - TELEPHONE BOX
TL - TRAFFIC LIGHT
TM - TICKET MACHINE
TP - TELEGRAPH POLE
VE - VEGETATION
W - WATER
WD - WARDROBE
WH - WATER HEATER
ZC - ZEBRA CROSSING

SERVICES

BT - BRITISH TELECOMS
CATV - CABLE TELEVISION
ER - EARTHING ROD
ES - ELECTRICAL SUPPLY
FH - FIRE HYDRANT
GAS - GAS SUPPLY
PO - POST OFFICE TELEPHONE
SV - STOP VALVE
TSSU - TRAFFIC LIGHT SIGNALS

DRAINAGE

DC - DRAINAGE CHANNEL
G - GULLY
I/C - INSPECTION CHAMBER
M/H - MANHOLE
RE - RODDING EYE
RWP - RAIN WATER PIPE
UTL - UNABLE TO LIFT
S+VP - SOIL & VENT PIPE
ST - STOP TAP
WM - WATER METER

TYPICAL DRAWING SYMBOLS

SPOT LEVEL × 96.256
SPOT HEIGHT ToW 99.034
SURVEY STATION STN 01 E: 515743.694 N: 232193.251 HT: 95.142
MANHOLE / INSPECTION CHAMBER I/C CL=96.256 IL=94.824
SURVEY HEIGHT H=2.704
WINDOW TAG WINDOW 015 HH=1.962 OH=0.747 SH=1.215
DOOR TAG DOOR 009 OH=1.820
RADIATOR TAG RADIATOR 005 TH=0.238 RH=0.538 BH=0.200

TOPOGRAPHICAL SYMBOLS

OVERHEAD ELECTRICAL — ELEC —
OVERHEAD TELEPHONE — TELE —
FENCE LINE
VEGETATION OUTLINE
SINGLE GATE
DOUBLE GATE
TREE
CONTOURS 92.000M

REV	DATE	AMENDMENTS

Mobile CAD Surveying office & on site...™
WWW.MOBILECADSURVEYING.CO.UK
SURVEYS@MOBCAD.CO.UK
PONTEFRACT HEAD OFFICE: UNIT 11, 2 HARROPWELL LANE PONTEFRACT WEST YORKSHIRE WF8 1QY 01977 525 076
LONDON OFFICE: KEMP HOUSE 152 - 160 CITY ROAD LONDON EC2V 2NX 020 3198 1197

PROJECT: MEASURED BUILDING SURVEY
ADDRESS: RICHMOND INN HOTEL, 50-56 SHEEN ROAD, RICHMOND, TW9 1UG.
DWG NO.: 2844 - 02
DWG TITLE: LOWER GROUND FLOOR PLAN
DWG DATE: AUGUST 2020
DWG SIZE: SCALE AS SHOWN @ A1
DRAWN: MW CHECKED: JW ISSUE -

GROUND FLOOR PLAN
1:100 Scale

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS AND DRAWINGS ISSUED. FOR DISCREPANCIES OR OMISSIONS CONTACT MOBILE CAD SURVEYING SOLUTIONS LTD PRIOR TO WORK COMMENCING. THE CONTRACTOR IS TO CHECK AND VERIFY ALL BUILDING AND SITE DIMENSIONS AND LEVELS BEFORE WORK COMMENCES.

DO NOT SCALE THIS DRAWING - CHECK ALL DIMENSIONS ON SITE

NOTE:
AREAS DRAWN INDICATIVELY NOTED AND INDICATED BY GREY DASHED LINE AS LINE BELOW

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HT - HEIGHT
STN - SURVEY STATION
BM - BEAM
CE - CEILING
J - JOISTS
RA - RAFTERS
E - EAVES
FR - FLAT ROOF
P - PARAPET
F - FENCE
U/S - UNDERSIDE OF
R - RIDGE
SL - SLAB
SF - SOFFIT
T - TREE
THR - THRESHOLD
To - TOP OF
W - WALL
HH - HEAD HEIGHT
OH - OPENING HEIGHT
SH - SILL HEIGHT

GENERAL NOTES
AB - ADVERTISING BOARD
AC - AIR CONDITIONING UNIT
AHU - AIR HANDLING UNIT
AP - INTRUDER ALARM PANEL
B - BOLLARD
BA - BARRIER
BE - BENCH
BS - BUS STOP
BLR - BOILER
BXO - BOXING OUT
CAH - CEILING ACCESS HATCH
CHY - CHIMNEY
CPD - CUPBOARD
DB - DOG WASTE BIN
DW - DWARF WALL
DK - DROP KERB
EDB - ELECTRICAL DISTRIBUTION BOARD
EG - EXTRACT GRILLE
EM - ELECTRIC METER
FB - FUSE BOX
FP - FIREPLACE
FU - FLUE
FAP - FIRE ALARM PANEL
GR - GRASS
GU - GUARDING
GM - GAS METER
HWC - HOT WATER CYLINDER
LAH - LOFT ACCESS HATCH
LB - LITTER BIN
LP - LAMP POST
PC - PELICAN CROSSING
PS - PAVING SLABS
PL - PAVEMENT LIGHT
PLT - PLANTING
PB - POST BOX
RG - RAILING
RS - ROAD SIGN
SB - SPEED BUMP
SG - SIGNAGE
SN - STREET NAME SIGN
SWR - SHOWER
SHV - SHELVING
TB - TELEPHONE BOX
TL - TRAFFIC LIGHT
TM - TICKET MACHINE
TP - TELEGRAPH POLE
VE - VEGETATION
W - WATER
WD - WARDROBE
WH - WATER HEATER
ZC - ZEBRA CROSSING

SERVICES
BT - BRITISH TELECOMS
CATV - CABLE TELEVISION
ER - EARTHING ROD
ES - ELECTRICAL SUPPLY
FH - FIRE HYDRANT
GAS - GAS SUPPLY
PO - POST OFFICE TELEPHONE
SV - STOP VALVE
TSSU - TRAFFIC LIGHT SIGNALS

DRAINAGE
DC - DRAINAGE CHANNEL
G - GULLY
I/C - INSPECTION CHAMBER
M/H - MANHOLE
RE - RODDING EYE
RWP - RAIN WATER PIPE
UTL - UNABLE TO LIFT
S+VP - SOIL & VENT PIPE
ST - STOP TAP
WM - WATER METER

TYPICAL DRAWING SYMBOLS
SPOT LEVEL — 96.256
SPOT HEIGHT — ToW 99.034
SURVEY STATION — STN 01 E: 515743.694 N: 232193.251 HT: 95.142
MANHOLE / INSPECTION CHAMBER — I/C CL=96.256 IL=94.824
SURVEY HEIGHT — H=2.704
WINDOW TAG — WINDOW 015 HH=1.962 OH=0.747 SH=1.215
DOOR TAG — DOOR 009 OH=1.820
RADIATOR TAG — RADIATOR 005 TH=0.238 RH=0.538 BH=0.200

TOPOGRAPHICAL SYMBOLS
OVERHEAD ELECTRICAL — ELEC
OVERHEAD TELEPHONE — TELE
FENCE LINE
VEGETATION OUTLINE
SINGLE GATE
DOUBLE GATE
TREE
CONTOURS — 92.000M

REV	DATE	AMENDMENTS

Mobile CAD Surveying office & on site...™
WWW.MOBILECADSURVEYING.CO.UK
SURVEYS@MOBCAD.CO.UK
PONTEFRACT HEAD OFFICE: UNIT 11, 2 HARROPWELL LANE PONTEFRACT WEST YORKSHIRE WF8 1QY 01977 525 076
LONDON OFFICE: KEMP HOUSE 152 - 160 CITY ROAD LONDON EC2V 2NX 020 3198 1197

PROJECT: MEASURED BUILDING SURVEY
ADDRESS: RICHMOND INN HOTEL, 50-56 SHEEN ROAD, RICHMOND, TW9 1UG.
DWG NO.: 2844 - 03
DWG TITLE: GROUND FLOOR PLAN
DWG DATE: AUGUST 2020
DWG SIZE: SCALE AS SHOWN @ A1
DRAWN: MW CHECKED: JW ISSUE -

B Preliminary Borehole Log

GEA

Geotechnical & Environmental Associates

Project				BOREHOLE No
Richmond Inn Hotel, 50-56 Sheen Road, Richmond TW9 1UG				**BH1**
Job No	Date	Ground Level (m OD)	Co-Ordinates ()	
J22097	05-04-22 05-04-22	9.73		
Client		Engineer		Sheet
Bridges Property Alternatives Fund V LP		Elliott Wood		1 of 2

SAMPLES & TESTS			Water	STRATA				Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
				9.68		0.05	Block paving	
0.20	D1			9.58		0.15	MADE GROUND (brown sand)	
0.50	D3			9.33		0.40	MADE GROUND (brown mottled reddish brown gravelly sand with brick and concrete fragments and coal)	
0.80	D2			8.83		(0.50) 0.90	MADE GROUND (greyish brown clayey sandy silt with rare coal, roots and rootlets)	
1.20	B4	2,2/2,1,2,2 N60 = 7					Loose brown very clayey SAND / very sandy clay with pockets of gravel	
2.00	B5	3,5/6,7,5,4 N60 = 23						
3.00-3.45	U6		▼					
3.50	D7					(5.50)		
4.00	D8	1,1/1,1,2,1 N60 = 5						
5.00-5.45	U9							
5.50	D10							
6.00	D11	2,4/2,1,2,2 N60 = 7		3.33		6.40		
				3.13		6.60	Brown silty CLAY	
6.80	D12						Stiff fissured grey silty CLAY with a claystone at 6.60 m to 6.80 m	
7.00	D13							
7.50-7.95	U14							
8.00	D15							
9.00	D16	3,4/4,4,5,6 N60 = 20						

Boring Progress and Water Observations

Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

GENERAL REMARKS

Services inspection pit excavated to 1.20 m for 1 hour 15 minutes.
1 hour spent conducting falling head test at 2.50 m - water level did not drop.
30 minutes spent chiselling from 6.60 m to 6.80 m.
1 hour spent tidying up site and bagging excess spoil.

All dimensions in metres Scale 1:62.5	Method/ Plant Used Cable Percussion Rig	Logged By Preliminary

Report ID: CABLE PERCUSSION || Project: J22097 - RICHMOND INN HOTEL.GPJ || Library: GEA LIBRARY.GLB || Date: 6 April 2022

GEA

Geotechnical & Environmental Associates

Project				BOREHOLE No
Richmond Inn Hotel, 50-56 Sheen Road, Richmond TW9 1UG				**BH1**
Job No	Date	Ground Level (m OD)	Co-Ordinates ()	
J22097	05-04-22 05-04-22	9.73		
Client		Engineer		Sheet
Bridges Property Alternatives Fund V LP		Elliott Wood		2 of 2

SAMPLES & TESTS			Water	STRATA				Instrument / Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
							Stiff fissured grey silty CLAY with a claystone at 6.60 m to 6.80 m(continued)	
10.50-10.95	U17					(8.40)		
11.00	D18							
12.00	D19	4,4/5,6,7,7 N60 = 27						
13.50-13.95	U20							
14.00	D21							
14.50	D22	5,6/7,7,8,8 N60 = 32		-5.27		15.00		

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

GENERAL REMARKS

Services inspection pit excavated to 1.20 m for 1 hour 15 minutes.
1 hour spent conducting falling head test at 2.50 m - water level did not drop.
30 minutes spent chiselling from 6.60 m to 6.80 m.
1 hour spent tidying up site and bagging excess spoil.

All dimensions in metres Scale 1:62.5	Method/ Plant Used Cable Percussion Rig	Logged By Preliminary

Report ID: CABLE PERCUSSION || Project: J22097 - RICHMOND INN HOTEL.GPJ || Library: GEA LIBRARY.GLB || Date: 6 April 2022

C CCTV Drainage Survey

CLEARVIEW SURVEYS LIMITED
UNIT 301 OLD BARN FARM ROAD, WIMBORNE
Tel. 01202 828 281
andyg@clearviewsurveys.co.uk

Project

Project Name: 13621 50-56 SHEEN ROAD RICHMOND

Project Date: 04/04/2022

Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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Project Information

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Client

Company: ELLIOT WOOD ENGINEERING
Contact: HARRY HUNTER
Street: 55 WHITEFIELD STREET
County: LONDON
Post Code: W1T 4AH
Phone: 02039 342 575
Email: h.hunter@elliottwood.co.uk

Site

Street: 50 - 56 SHEEN ROAD
Town or City: RICHMOND
Post Code: TW9 1UG

Contractor

Company: CLEARVIEW SURVEYS LIMITED
Contact: ANDY GUARE
Street: UNIT 301 OLD BARN FARM ROAD
Town or City: WIMBORNE
County: DORSET
Post Code: BH21 6SP
Phone: 01202 828 281
Email: andyg@clearviewsurveys.co.uk

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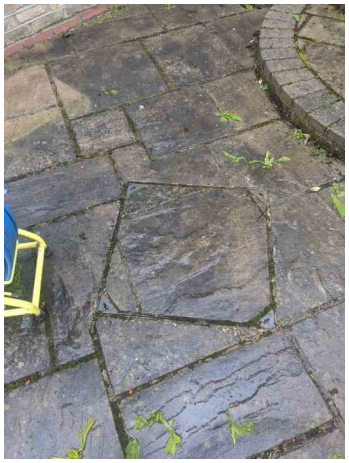
Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022


CHAMBER BURIED HERE


MH.1 POST SURVEY


MH.1 PRE SURVEY


MH.2 POST SURVEY


MH.2 PRE SURVEY


MH.3 POST SURVEY

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.3 PRE SURVEY

MH.4 POST SURVEY

MH.4 PRE SURVEY

MH.5 POST SURVEY

MH.5 PRE SURVEY

MH.6 U.T.R AIR CON UNIT PRECARIOUS ON TOP

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.7 POST SURVEY

MH.7 PRE SURVEY

MH.8 POST SURVEY

MH.8 PRE SURVEY

MH.9 POST SURVEY

MH.9 PRE SURVEY

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.10 POST SURVEY

MH.10 PRE SURVEY

MH.11 POST SURVEY

MH.11 PRE SURVEY

MH.12 POST SURVEY

MH.12 PRE SURVEY

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.13 POST SURVEY

MH.13 PRE SURVEY

MH.14 U.T.R OBSCURED BY SKIP

MH.15 POST SURVEY

MH.15 PRE SURVEY

MH.16 POST SURVEY

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.16 PRE SURVEY

MH.17 POST SURVEY

MH.17 PRE SURVEY

MH.18 PRE SURVEY

MH.18 U.T.R SEIZED

MH.19 POST SURVEY

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.19 PRE SURVEY

MH.20 POST SURVEY

MH.20 PRE SURVEY

MH.21 POST SURVEY

MH.21 PRE SURVEY

MH.23 POST SURVEY

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.23 PRE SURVEY

MH.24 POST SURVEY

MH.24 PRE SURVEY

MH.25 FLEXI IN BRANCH

MH.26 POST SURVEY

MH.26 PRE SURVEY

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Project Pictures

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

MH.27 POST SURVEY

MH.27 PRE SURVEY

RODDING EYE TOP OF RUN

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Section Profile

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	BRANCH 1	MH.1	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	3.91 m	3.91 m
2	BRANCH 2	MH.1	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.28 m	1.28 m
3	BRANCH 3	MH.1	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.60 m	2.60 m
4	BRANCH 4	MH.1	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.27 m	2.27 m
5	MH.1	MH.2	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	14.68 m	14.68 m
6	MAINRUN	MH.3	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.82 m	2.82 m
7	BRANCH 1	MH.3	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.49 m	2.49 m
8	BRANCH 2	MH.3	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.83 m	1.83 m
9	BRANCH 3	MH.3	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	0.73 m	0.73 m
10	MH.3	MH.4	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	4.79 m	4.79 m
11	MH.4	MH.5	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	4.47 m	4.47 m
12	BRANCH 1	MH.4	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.72 m	1.72 m
13	BRANCH 2	MH.4	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.61 m	1.61 m
14	BRANCH 3	MH.4	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.16 m	2.16 m
15	BRANCH 1	MH.5	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	0.95 m	0.95 m
16	BRANCH 2	MH.5	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	0.73 m	0.73 m
24	MH.11	MH.10	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	12.70 m	12.70 m
25	BRANCH 1	MH.10	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.83 m	1.83 m
26	BRANCH 2	MH.10	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.39 m	1.39 m
27	MH.12	MH.11	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	4.90 m	4.90 m
28	MH.13	MH.12	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.39 m	1.39 m
29	MAINRUN	MH.13	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	3.00 m	**1.72 m**
30	BRANCH 1	MH.11	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.00 m	**0.62 m**
31	BRANCH 1	MH.12	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.71 m	2.71 m
32	BRANCH 1	MH.13	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	6.88 m	6.88 m
33	BRANCH 2	MH.13	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	3.80 m	3.80 m
34	MH.15	MH.16	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	3.25 m	3.25 m
35	MH.16	MH.17	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	0.40 m	0.40 m
36	BRANCH 1	MH.16	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.50 m	**1.28 m**

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Section Profile

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

37	BRANCH 1	MH.17	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	0.62 m	0.62 m
38	MH.17	MH.18	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.38 m	2.38 m
39	BRANCH 1	MH.8	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	3.47 m	3.47 m
40	MAINRUN	MH.9	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	4.24 m	4.24 m
41	BRANCH 1	MH.9	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.37 m	2.37 m
43	MH.18	MH.19	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	6.77 m	6.77 m
44	MH.19	MH.21	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	10.73 m	10.73 m
45	BRANCH 1	MH.21	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	0.73 m	0.73 m
46	MH.23	MH.21	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	11.83 m	11.83 m
47	MH.21	MH.22	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	3.25 m	3.25 m
49	BRANCH 1	MH.24	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	3.03 m	3.03 m
50	BRANCH 2	MH.24	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	7.76 m	7.76 m
52	BRANCH 1	MH.23	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.05 m	2.05 m
53	BRANCH 2	MH.23	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.17 m	1.17 m
54	MH.26	MH.23	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	8.53 m	8.53 m
55	MH.27	MH.26	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	13.09 m	13.09 m
56	RODDING EY	MH.27	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	14.60 m	14.60 m
57	BRANCH 1	MH.27	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	1.28 m	1.28 m

Total: 47 Inspections x Circular 100 mm = 191.69 m Total Length and 189.81 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
17	MH.5	MH.7	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	7.87 m	7.87 m
18	MH.2	MH.7	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	6.77 m	6.77 m
19	BRANCH 1	MH.7	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	4.90 m	4.90 m
20	BRANCH 2	MH.7	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	4.91 m	4.91 m
21	MH.7	MH.8	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	2.71 m	2.71 m
22	MH.8	MH.9	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	5.12 m	5.12 m
23	MH.10	MH.2	04/04/2022	50-56 SHEEN ROAD	Vitrified clay	8.53 m	8.53 m
42	MH.9	MH.20	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	14.11 m	14.11 m
48	MH.20	MH.24	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	7.43 m	7.43 m
51	MH.24	MH.25	05/04/2022	50-56 SHEEN ROAD	Vitrified clay	23.50 m	23.50 m

Total: 10 Inspections x Circular 150 mm = 85.85 m Total Length and 85.85 m Inspected Length

CLEARVIEW SURVEYS LIMITED
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Section Profile

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Total: 57 Inspections = 277.54 m Total Length and 275.66 m Inspected Length

CLEARVIEW SURVEYS LIMITED
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Section Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Number of sections	57
Total length of sections	277.54 m
Total length of inspected sections	275.66 m
Total length of abandoned inspections	0.60 m
Number of abandoned inspections	8
Number of section inspection photos	85
Number of section inspection videos	57
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.1
Inspected Length:	3.91 m	**Dia/Height:**	100 mm
Total Length:	3.91 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.1
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.50	JDM	Joint displaced, medium
4	1.50	JN	Junction at 3 o'clock, 100mm dia
5	1.94	JN	Junction at 9 o'clock, 100mm dia
6	3.91	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.1
Inspected Length:	1.28 m	**Dia/Height:**	100 mm
Total Length:	1.28 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.40	JDM	Joint displaced, medium
4	1.28	BRF	Finish node, major connection without manhole, reference: BRANCH 2

PLR:	BRANCH 3X	**Upstream Node:**	BRANCH 3
Inspection Direction:	2	**Downstream Node:**	MH.1
Inspected Length:	2.60 m	**Dia/Height:**	100 mm
Total Length:	2.60 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.1

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UNIT 301 OLD BARN FARM ROAD, WIMBORNE
Tel. 01202 828 281
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Section Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

No.	m+	Code	Observation
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.16	JDM	Joint displaced, medium
4	2.27	LL	Line deviates left
5	2.60	BRF	Finish node, major connection without manhole, reference: BRANCH 3

PLR:	BRANCH 4X	**Upstream Node:**	BRANCH 4
Inspection Direction:	2	**Downstream Node:**	MH.1
Inspected Length:	2.27 m	**Dia/Height:**	100 mm
Total Length:	2.27 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.1
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.27	BRF	Finish node, major connection without manhole, reference: BRANCH 4

PLR:	MH.1X	**Upstream Node:**	MH.1
Inspection Direction:	1	**Downstream Node:**	MH.2
Inspected Length:	14.68 m	**Dia/Height:**	100 mm
Total Length:	14.68 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.1
2	0.00	WL	Water level, 5% of the vertical dimension
3	6.11	JN	Junction at 9 o'clock, 100mm dia
4	12.27	LR	Line deviates right
5	13.58	LR	Line deviates right
6	14.68	MHF	Finish node, manhole, reference: MH.2

PLR:	MAINRUNX	**Upstream Node:**	MAINRUN
Inspection Direction:	2	**Downstream Node:**	MH.3
Inspected Length:	2.82 m	**Dia/Height:**	100 mm
Total Length:	2.82 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.3
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.82	BRF	Finish node, major connection without manhole, reference: MAINRUN

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.3
Inspected Length:	2.49 m	**Dia/Height:**	100 mm
Total Length:	2.49 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.3
2	0.00	WL	Water level, 0% of the vertical dimension
3	2.49	BRF	Finish node, major connection without manhole, reference: BRANCH 1

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PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.3
Inspected Length:	1.83 m	**Dia/Height:**	100 mm
Total Length:	1.83 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.3
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.83	BRF	Finish node, major connection without manhole, reference: BRANCH 2

PLR:	BRANCH 3X	**Upstream Node:**	BRANCH 3
Inspection Direction:	2	**Downstream Node:**	MH.3
Inspected Length:	0.73 m	**Dia/Height:**	100 mm
Total Length:	0.73 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.3
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.73	BRF	Finish node, major connection without manhole, reference: BRANCH 3

PLR:	MH.3X	**Upstream Node:**	MH.3
Inspection Direction:	1	**Downstream Node:**	MH.4
Inspected Length:	4.79 m	**Dia/Height:**	100 mm
Total Length:	4.79 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.3
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.79	MHF	Finish node, manhole, reference: MH.4

PLR:	MH.4X	**Upstream Node:**	MH.4
Inspection Direction:	1	**Downstream Node:**	MH.5
Inspected Length:	4.47 m	**Dia/Height:**	100 mm
Total Length:	4.47 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.4
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.06	LR	Line deviates right
4	2.49	JDM	Joint displaced, medium
5	2.71	LL	Line deviates left
6	3.92	LL	Line deviates left
7	4.47	MHF	Finish node, manhole, reference: MH.5

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.4
Inspected Length:	1.72 m	**Dia/Height:**	100 mm
Total Length:	1.72 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.4
2	0.00	WL	Water level, 0% of the vertical dimension

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No.	m+	Code	Observation
3	0.51	JN	Junction at 3 o'clock, 100mm dia
4	0.62	LL	Line deviates left
5	1.72	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.4
Inspected Length:	1.61 m	**Dia/Height:**	100 mm
Total Length:	1.61 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.4
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	LR	Line deviates right
4	1.61	BRF	Finish node, major connection without manhole, reference: BRANCH 2

PLR:	BRANCH 3X	**Upstream Node:**	BRANCH 3
Inspection Direction:	2	**Downstream Node:**	MH.4
Inspected Length:	2.16 m	**Dia/Height:**	100 mm
Total Length:	2.16 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.4
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.73	JN	Junction at 12 o'clock, 100mm dia
4	2.16	BRF	Finish node, major connection without manhole, reference: BRANCH 3

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.5
Inspected Length:	0.95 m	**Dia/Height:**	100 mm
Total Length:	0.95 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.5
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.95	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.5
Inspected Length:	0.73 m	**Dia/Height:**	100 mm
Total Length:	0.73 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.5
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	DER	Settled deposits, coarse, 20% cross-sectional area loss
4	0.73	DER	Settled deposits, coarse, 40% cross-sectional area loss
5	0.73	SA	Survey abandoned

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PLR:	MH.5X	**Upstream Node:**	MH.5
Inspection Direction:	1	**Downstream Node:**	MH.7
Inspected Length:	7.87 m	**Dia/Height:**	150 mm
Total Length:	7.87 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.5
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	DER	Settled deposits, coarse, 10% cross-sectional area loss
4	7.22	LR	Line deviates right
5	7.54	LD	Line deviates down
6	7.87	MHF	Finish node, manhole, reference: MH.7

PLR:	MH.2X	**Upstream Node:**	MH.2
Inspection Direction:	2	**Downstream Node:**	MH.7
Inspected Length:	6.77 m	**Dia/Height:**	150 mm
Total Length:	6.77 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.7
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.28	LR	Line deviates right
4	6.77	MHF	Finish node, manhole, reference: MH.2

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.7
Inspected Length:	4.90 m	**Dia/Height:**	150 mm
Total Length:	4.90 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.7
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.95	DES	Settled deposits, fine, 10% cross-sectional area loss
4	1.50	LU	Line deviates up
5	4.90	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.7
Inspected Length:	4.91 m	**Dia/Height:**	150 mm
Total Length:	4.91 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.7
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.95	LR	Line deviates right
4	3.81	LL	Line deviates left
5	4.91	LL	Line deviates left
6	4.91	SA	Survey abandoned

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PLR:	MH.7X	**Upstream Node:**	MH.7
Inspection Direction:	1	**Downstream Node:**	MH.8
Inspected Length:	2.71 m	**Dia/Height:**	150 mm
Total Length:	2.71 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.7
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.71	MHF	Finish node, manhole, reference: MH.8

PLR:	MH.8X	**Upstream Node:**	MH.8
Inspection Direction:	1	**Downstream Node:**	MH.9
Inspected Length:	5.12 m	**Dia/Height:**	150 mm
Total Length:	5.12 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.8
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.51	DES	Settled deposits, fine, 10% cross-sectional area loss
4	5.12	MHF	Finish node, manhole, reference: MH.9

PLR:	MH.10X	**Upstream Node:**	MH.10
Inspection Direction:	2	**Downstream Node:**	MH.2
Inspected Length:	8.53 m	**Dia/Height:**	150 mm
Total Length:	8.53 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.2
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.06	LL	Line deviates left
4	2.70	LR	Line deviates right
5	7.76	LR	Line deviates right
6	8.53	MHF	Finish node, manhole, reference: MH.10

PLR:	MH.11X	**Upstream Node:**	MH.11
Inspection Direction:	2	**Downstream Node:**	MH.10
Inspected Length:	12.70 m	**Dia/Height:**	100 mm
Total Length:	12.70 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.10
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.95	DES	Settled deposits, fine, 5% cross-sectional area loss
4	9.41	JN	Junction at 3 o'clock, 100mm dia
5	12.37	LR	Line deviates right
6	12.70	MHF	Finish node, manhole, reference: MH.11

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.10
Inspected Length:	1.83 m	**Dia/Height:**	100 mm
Total Length:	1.83 m	**Material:**	Vitrified clay

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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.10
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.39	JDM	Joint displaced, medium
4	1.83	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.10
Inspected Length:	1.39 m	**Dia/Height:**	100 mm
Total Length:	1.39 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.10
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.62	LL	Line deviates left
4	1.39	BRF	Finish node, major connection without manhole, reference: BRANCH 2

PLR:	MH.12X	**Upstream Node:**	MH.12
Inspection Direction:	2	**Downstream Node:**	MH.11
Inspected Length:	4.90 m	**Dia/Height:**	100 mm
Total Length:	4.90 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.11
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.40	LR	Line deviates right
4	4.90	MHF	Finish node, manhole, reference: MH.12

PLR:	MH.13X	**Upstream Node:**	MH.13
Inspection Direction:	2	**Downstream Node:**	MH.12
Inspected Length:	1.39 m	**Dia/Height:**	100 mm
Total Length:	1.39 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.12
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.39	MHF	Finish node, manhole, reference: MH.13

PLR:	MAINRUNX	**Upstream Node:**	MAINRUN
Inspection Direction:	2	**Downstream Node:**	MH.13
Inspected Length:	1.72 m	**Dia/Height:**	100 mm
Total Length:	3.00 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.13
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.72	GYF	Finish node, gully, reference: MAINRUN

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.11
Inspected Length:	0.62 m	**Dia/Height:**	100 mm
Total Length:	1.00 m	**Material:**	Vitrified clay

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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.11
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	LR	Line deviates right
4	0.62	SA	Survey abandoned

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.12
Inspected Length:	2.71 m	**Dia/Height:**	100 mm
Total Length:	2.71 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.12
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.40	LR	Line deviates right
4	2.71	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.13
Inspected Length:	6.88 m	**Dia/Height:**	100 mm
Total Length:	6.88 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.13
2	0.00	WL	Water level, 0% of the vertical dimension
3	4.46	LR	Line deviates right
4	6.88	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.13
Inspected Length:	3.80 m	**Dia/Height:**	100 mm
Total Length:	3.80 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.13
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	LL	Line deviates left
4	2.49	LL	Line deviates left
5	2.49	JDM	Joint displaced, medium
6	3.36	LL	Line deviates left
7	3.80	BRF	Finish node, major connection without manhole, reference: BRANCH 2

PLR:	MH.15X	**Upstream Node:**	MH.15
Inspection Direction:	1	**Downstream Node:**	MH.16
Inspected Length:	3.25 m	**Dia/Height:**	100 mm
Total Length:	3.25 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.15
2	0.00	WL	Water level, 0% of the vertical dimension
3	2.16	DES	Settled deposits, fine, 15% cross-sectional area loss

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No.	m+	Code	Observation
4	2.71	DES	Settled deposits, fine, 30% cross-sectional area loss
5	3.25	MHF	Finish node, manhole, reference: MH.16

PLR:	MH.16X	**Upstream Node:**	MH.16
Inspection Direction:	1	**Downstream Node:**	MH.17
Inspected Length:	0.40 m	**Dia/Height:**	100 mm
Total Length:	0.40 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.16
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	DES	Settled deposits, fine, 50% cross-sectional area loss
4	0.40	SA	Survey abandoned

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.16
Inspected Length:	1.28 m	**Dia/Height:**	100 mm
Total Length:	1.50 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.16
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.84	LR	Line deviates right
4	1.28	SA	Survey abandoned

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.17
Inspected Length:	0.62 m	**Dia/Height:**	100 mm
Total Length:	0.62 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.17
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.62	DES	Settled deposits, fine, 60% cross-sectional area loss
4	0.62	SA	Survey abandoned

PLR:	MH.17X	**Upstream Node:**	MH.17
Inspection Direction:	1	**Downstream Node:**	MH.18
Inspected Length:	2.38 m	**Dia/Height:**	100 mm
Total Length:	2.38 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.17
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	1.17	DES	Settled deposits, fine, 20% cross-sectional area loss
5	2.38	DES	Settled deposits, fine, 10% cross-sectional area loss, finish
6	2.38	MHF	Finish node, manhole, reference: MH.18

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PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.8
Inspected Length:	3.47 m	**Dia/Height:**	100 mm
Total Length:	3.47 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.8
2	0.00	WL	Water level, 0% of the vertical dimension
3	3.47	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	MAINRUNX	**Upstream Node:**	MAINRUN
Inspection Direction:	2	**Downstream Node:**	MH.9
Inspected Length:	4.24 m	**Dia/Height:**	100 mm
Total Length:	4.24 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.9
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.73	DES	Settled deposits, fine, 10% cross-sectional area loss
4	0.73	LR	Line deviates right
5	4.24	BRF	Finish node, major connection without manhole, reference: MAINRUN

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.9
Inspected Length:	2.37 m	**Dia/Height:**	100 mm
Total Length:	2.37 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.9
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.84	LR	Line deviates right
4	2.37	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	MH.9X	**Upstream Node:**	MH.9
Inspection Direction:	1	**Downstream Node:**	MH.20
Inspected Length:	14.11 m	**Dia/Height:**	150 mm
Total Length:	14.11 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.9
2	0.00	WL	Water level, 5% of the vertical dimension
3	13.65	LL	Line deviates left
4	14.11	MHF	Finish node, manhole, reference: MH.20

PLR:	MH.18X	**Upstream Node:**	MH.18
Inspection Direction:	2	**Downstream Node:**	MH.19
Inspected Length:	6.77 m	**Dia/Height:**	100 mm
Total Length:	6.77 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.19
2	0.00	WL	Water level, 5% of the vertical dimension

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No.	m+	Code	Observation
3	1.94	DES	Settled deposits, fine, 20% cross-sectional area loss
4	2.48	JN	Junction at 3 o'clock, 100mm dia
5	3.69	DES	Settled deposits, fine, 20% cross-sectional area loss
6	6.77	MHF	Finish node, manhole, reference: MH.18

PLR:	MH.19X	**Upstream Node:**	MH.19
Inspection Direction:	1	**Downstream Node:**	MH.21
Inspected Length:	10.73 m	**Dia/Height:**	100 mm
Total Length:	10.73 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.19
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.72	JN	Junction at 3 o'clock, 100mm dia
4	4.46	JN	Junction at 10 o'clock, 100mm dia
5	8.97	WL	Water level, 10% of the vertical dimension
6	8.97	DES	Settled deposits, fine, 10% cross-sectional area loss
7	10.73	MHF	Finish node, manhole, reference: MH.21

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.21
Inspected Length:	0.73 m	**Dia/Height:**	100 mm
Total Length:	0.73 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.21
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	LR	Line deviates right
4	0.73	SA	Survey abandoned

PLR:	MH.23X	**Upstream Node:**	MH.23
Inspection Direction:	2	**Downstream Node:**	MH.21
Inspected Length:	11.83 m	**Dia/Height:**	100 mm
Total Length:	11.83 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.21
2	0.00	WL	Water level, 5% of the vertical dimension
3	10.95	LL	Line deviates left
4	11.50	LL	Line deviates left
5	11.83	MHF	Finish node, manhole, reference: MH.23

PLR:	MH.21X	**Upstream Node:**	MH.21
Inspection Direction:	1	**Downstream Node:**	MH.22
Inspected Length:	3.25 m	**Dia/Height:**	100 mm
Total Length:	3.25 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.21
2	0.00	WL	Water level, 5% of the vertical dimension

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No.	m+	Code	Observation
3	0.73	JN	Junction at 3 o'clock, 100mm dia
4	3.25	MHF	Finish node, manhole, reference: MH.22

PLR:	MH.20X	**Upstream Node:**	MH.20
Inspection Direction:	1	**Downstream Node:**	MH.24
Inspected Length:	7.43 m	**Dia/Height:**	150 mm
Total Length:	7.43 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.20
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.40	LL	Line deviates left
4	6.11	LR	Line deviates right
5	7.43	MHF	Finish node, manhole, reference: MH.24

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.24
Inspected Length:	3.03 m	**Dia/Height:**	100 mm
Total Length:	3.03 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.24
2	0.00	WL	Water level, 0% of the vertical dimension
3	3.03	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.24
Inspected Length:	7.76 m	**Dia/Height:**	100 mm
Total Length:	7.76 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.24
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.95	LL	Line deviates left
4	1.50	LR	Line deviates right
5	6.99	JN	Junction at 2 o'clock, 100mm dia
6	7.76	LR	Line deviates right
7	7.76	SA	Survey abandoned

PLR:	MH.24X	**Upstream Node:**	MH.24
Inspection Direction:	1	**Downstream Node:**	MH.25
Inspected Length:	23.50 m	**Dia/Height:**	150 mm
Total Length:	23.50 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.24
2	0.00	WL	Water level, 5% of the vertical dimension
3	6.66	LR	Line deviates right
4	10.95	WL	Water level, 10% of the vertical dimension
5	23.15	LL	Line deviates left

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No.	m+	Code	Observation
6	23.50	MHF	Finish node, manhole, reference: MH.25

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.23
Inspected Length:	2.05 m	**Dia/Height:**	100 mm
Total Length:	2.05 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.23
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.73	LL	Line deviates left
4	1.61	LL	Line deviates left
5	2.05	BRF	Finish node, major connection without manhole, reference: BRANCH 1

PLR:	BRANCH 2X	**Upstream Node:**	BRANCH 2
Inspection Direction:	2	**Downstream Node:**	MH.23
Inspected Length:	1.17 m	**Dia/Height:**	100 mm
Total Length:	1.17 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.23
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.17	GYF	Finish node, gully, reference: BRANCH 2

PLR:	MH.26X	**Upstream Node:**	MH.26
Inspection Direction:	2	**Downstream Node:**	MH.23
Inspected Length:	8.53 m	**Dia/Height:**	100 mm
Total Length:	8.53 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.23
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.40	LL	Line deviates left
4	7.98	JN	Junction at 10 o'clock, 100mm dia
5	8.53	MHF	Finish node, manhole, reference: MH.26

PLR:	MH.27X	**Upstream Node:**	MH.27
Inspection Direction:	2	**Downstream Node:**	MH.26
Inspected Length:	13.09 m	**Dia/Height:**	100 mm
Total Length:	13.09 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.26
2	0.00	WL	Water level, 5% of the vertical dimension
3	10.11	JN	Junction at 10 o'clock, 100mm dia
4	11.37	DES	Settled deposits, fine, 10% cross-sectional area loss
5	11.37	WL	Water level, 10% of the vertical dimension
6	13.09	MHF	Finish node, manhole, reference: MH.27

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PLR:	RODDING EYX	**Upstream Node:**	RODDING EY
Inspection Direction:	2	**Downstream Node:**	MH.27
Inspected Length:	14.60 m	**Dia/Height:**	100 mm
Total Length:	14.60 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.27
2	0.00	WL	Water level, 5% of the vertical dimension
3	5.40	JN	Junction at 10 o'clock, 100mm dia
4	7.26	JNC	Junction, closed at 9 o'clock, 100mm dia
5	12.27	REM	General remark
6	12.54	JN	Junction at 10 o'clock, 100mm dia
7	13.34	LU	Line deviates up
8	14.60	REF	Finish node, rodding eye, reference: RODDING EY

PLR:	BRANCH 1X	**Upstream Node:**	BRANCH 1
Inspection Direction:	2	**Downstream Node:**	MH.27
Inspected Length:	1.28 m	**Dia/Height:**	100 mm
Total Length:	1.28 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH.27
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.73	LL	Line deviates left
4	0.73	DES	Settled deposits, fine, 5% cross-sectional area loss
5	1.28	BRF	Finish node, major connection without manhole, reference: BRANCH 1

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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	BRANCH 1X	BRANCH 1	MH.1	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	3.91 m
2	SEC	BRANCH 2X	BRANCH 2	MH.1	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.28 m
3	SEC	BRANCH 3X	BRANCH 3	MH.1	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	2.60 m
4	SEC	BRANCH 4X	BRANCH 4	MH.1	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	2.27 m
5	SEC	MH.1X	MH.1	MH.2	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	14.68 m
6	SEC	MAINRUNX	MAINRUN	MH.3	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	2.82 m
7	SEC	BRANCH 1X	BRANCH 1	MH.3	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	2.49 m
8	SEC	BRANCH 2X	BRANCH 2	MH.3	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.83 m
9	SEC	BRANCH 3X	BRANCH 3	MH.3	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	0.73 m
10	SEC	MH.3X	MH.3	MH.4	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	4.79 m
11	SEC	MH.4X	MH.4	MH.5	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	4.47 m
12	SEC	BRANCH 1X	BRANCH 1	MH.4	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.72 m
13	SEC	BRANCH 2X	BRANCH 2	MH.4	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.61 m
14	SEC	BRANCH 3X	BRANCH 3	MH.4	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	2.16 m
15	SEC	BRANCH 1X	BRANCH 1	MH.5	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	0.95 m
16	SEC	BRANCH 2X	BRANCH 2	MH.5	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	0.73 m
17	SEC	MH.5X	MH.5	MH.7	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	7.87 m
18	SEC	MH.2X	MH.2	MH.7	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	6.77 m
19	SEC	BRANCH 1X	BRANCH 1	MH.7	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	4.90 m
20	SEC	BRANCH 2X	BRANCH 2	MH.7	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	4.91 m
21	SEC	MH.7X	MH.7	MH.8	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	2.71 m
22	SEC	MH.8X	MH.8	MH.9	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	5.12 m
23	SEC	MH.10X	MH.10	MH.2	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	8.53 m
24	SEC	MH.11X	MH.11	MH.10	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	12.70 m
25	SEC	BRANCH 1X	BRANCH 1	MH.10	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.83 m
26	SEC	BRANCH 2X	BRANCH 2	MH.10	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.39 m
27	SEC	MH.12X	MH.12	MH.11	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	4.90 m
28	SEC	MH.13X	MH.13	MH.12	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.39 m
29	SEC	MAINRUNX	MAINRUN	MH.13	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	3.00 m
30	SEC	BRANCH 1X	BRANCH 1	MH.11	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	1.00 m

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No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
31	SEC	BRANCH 1X	BRANCH 1	MH.12	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	2.71 m
32	SEC	BRANCH 1X	BRANCH 1	MH.13	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	6.88 m
33	SEC	BRANCH 2X	BRANCH 2	MH.13	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	3.80 m
34	SEC	MH.15X	MH.15	MH.16	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	3.25 m
35	SEC	MH.16X	MH.16	MH.17	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	0.40 m
36	SEC	BRANCH 1X	BRANCH 1	MH.16	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	1.50 m
37	SEC	BRANCH 1X	BRANCH 1	MH.17	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	0.62 m
38	SEC	MH.17X	MH.17	MH.18	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	2.38 m
39	SEC	BRANCH 1X	BRANCH 1	MH.8	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	3.47 m
40	SEC	MAINRUNX	MAINRUN	MH.9	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	4.24 m
41	SEC	BRANCH 1X	BRANCH 1	MH.9	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	2.37 m
42	SEC	MH.9X	MH.9	MH.20	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	14.11 m
43	SEC	MH.18X	MH.18	MH.19	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	6.77 m
44	SEC	MH.19X	MH.19	MH.21	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	10.73 m
45	SEC	BRANCH 1X	BRANCH 1	MH.21	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	0.73 m
46	SEC	MH.23X	MH.23	MH.21	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	11.83 m
47	SEC	MH.21X	MH.21	MH.22	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	3.25 m
48	SEC	MH.20X	MH.20	MH.24	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	7.43 m
49	SEC	BRANCH 1X	BRANCH 1	MH.24	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	3.03 m
50	SEC	BRANCH 2X	BRANCH 2	MH.24	50-56 Sheen Road	Richmond	F	VC	Circular 100mm	7.76 m
51	SEC	MH.24X	MH.24	MH.25	50-56 Sheen Road	Richmond	F	VC	Circular 150mm	23.50 m
52	SEC	BRANCH 1X	BRANCH 1	MH.23	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	2.05 m
53	SEC	BRANCH 2X	BRANCH 2	MH.23	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	1.17 m
54	SEC	MH.26X	MH.26	MH.23	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	8.53 m
55	SEC	MH.27X	MH.27	MH.26	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	13.09 m
56	SEC	RODDING EYX	RODDING EY	MH.27	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	14.60 m
57	SEC	BRANCH 1X	BRANCH 1	MH.27	50-56 Sheen Road	Richmond	S	VC	Circular 100mm	1.28 m
									Total:	**277.54 m**

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Pipe Levels

No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
1	BRANCH 1X	BRANCH 1			0.000 m	MH.1			0.460 m
2	BRANCH 2X	BRANCH 2			0.000 m	MH.1			0.460 m
3	BRANCH 3X	BRANCH 3			0.000 m	MH.1			0.460 m
4	BRANCH 4X	BRANCH 4			0.000 m	MH.1			0.460 m
5	MH.1X	MH.1			0.460 m	MH.2			0.990 m
6	MAINRUNX	MAINRUN			0.000 m	MH.3			0.520 m
7	BRANCH 1X	BRANCH 1			0.000 m	MH.3			0.520 m
8	BRANCH 2X	BRANCH 2			0.000 m	MH.3			0.520 m
9	BRANCH 3X	BRANCH 3			0.000 m	MH.3			0.520 m
10	MH.3X	MH.3			0.520 m	MH.4			0.920 m
11	MH.4X	MH.4			0.920 m	MH.5			1.280 m
12	BRANCH 1X	BRANCH 1			0.000 m	MH.4			0.920 m
13	BRANCH 2X	BRANCH 2			0.000 m	MH.4			0.920 m
14	BRANCH 3X	BRANCH 3			0.000 m	MH.4			0.920 m
15	BRANCH 1X	BRANCH 1			0.000 m	MH.5			1.280 m
16	BRANCH 2X	BRANCH 2			0.000 m	MH.5			1.280 m
17	MH.5X	MH.5			1.280 m	MH.7			1.420 m
18	MH.2X	MH.2			0.990 m	MH.7			1.420 m
19	BRANCH 1X	BRANCH 1			0.000 m	MH.7			1.420 m
20	BRANCH 2X	BRANCH 2			0.000 m	MH.7			1.420 m
21	MH.7X	MH.7			1.420 m	MH.8			0.000 m
22	MH.8X	MH.8			0.000 m	MH.9			0.000 m
23	MH.10X	MH.10			0.640 m	MH.2			0.990 m
24	MH.11X	MH.11			0.530 m	MH.10			0.640 m
25	BRANCH 1X	BRANCH 1			0.000 m	MH.10			0.640 m
26	BRANCH 2X	BRANCH 2			0.000 m	MH.10			0.640 m
27	MH.12X	MH.12			0.480 m	MH.11			0.530 m
28	MH.13X	MH.13			0.470 m	MH.12			0.480 m
29	MAINRUNX	MAINRUN			0.000 m	MH.13			0.470 m
30	BRANCH 1X	BRANCH 1			0.000 m	MH.11			0.530 m

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No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
31	BRANCH 1X	BRANCH 1			0.000 m	MH.12			0.480 m
32	BRANCH 1X	BRANCH 1			0.000 m	MH.13			0.470 m
33	BRANCH 2X	BRANCH 2			0.000 m	MH.13			0.470 m
34	MH.15X	MH.15			0.580 m	MH.16			0.610 m
35	MH.16X	MH.16			0.610 m	MH.17			0.980 m
36	BRANCH 1X	BRANCH 1			0.000 m	MH.16			0.610 m
37	BRANCH 1X	BRANCH 1			0.000 m	MH.17			0.980 m
38	MH.17X	MH.17			0.980 m	MH.18			0.000 m
39	BRANCH 1X	BRANCH 1			0.000 m	MH.8			1.590 m
40	MAINRUNX	MAINRUN			0.000 m	MH.9			1.650 m
41	BRANCH 1X	BRANCH 1			0.000 m	MH.9			1.650 m
42	MH.9X	MH.9			1.650 m	MH.20			1.340 m
43	MH.18X	MH.18			0.000 m	MH.19			1.320 m
44	MH.19X	MH.19			1.320 m	MH.21			1.190 m
45	BRANCH 1X	BRANCH 1			0.000 m	MH.21			1.190 m
46	MH.23X	MH.23			0.620 m	MH.21			1.190 m
47	MH.21X	MH.21			1.190 m	MH.22			0.000 m
48	MH.20X	MH.20			1.340 m	MH.24			1.410 m
49	BRANCH 1X	BRANCH 1			0.000 m	MH.24			1.410 m
50	BRANCH 2X	BRANCH 2			0.000 m	MH.24			1.410 m
51	MH.24X	MH.24			1.410 m	MH.25			1.960 m
52	BRANCH 1X	BRANCH 1			0.000 m	MH.23			0.620 m
53	BRANCH 2X	BRANCH 2			0.000 m	MH.23			0.620 m
54	MH.26X	MH.26			0.590 m	MH.23			0.620 m
55	MH.27X	MH.27			0.620 m	MH.26			0.590 m
56	RODDING EYX	RODDING EY			0.000 m	MH.27			0.620 m
57	BRANCH 1X	BRANCH 1			0.000 m	MH.27			0.620 m

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Project Summary

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Pipe Summary by Profile

Profile	Total Length	No. Pipes
Circular 100mm	3.91 m	
Circular 100mm	1.28 m	
Circular 100mm	2.60 m	
Circular 100mm	2.27 m	
Circular 100mm	14.68 m	
Circular 100mm	2.82 m	
Circular 100mm	2.49 m	
Circular 100mm	1.83 m	
Circular 100mm	0.73 m	
Circular 100mm	4.79 m	
Circular 100mm	4.47 m	
Circular 100mm	1.72 m	
Circular 100mm	1.61 m	
Circular 100mm	2.16 m	
Circular 100mm	0.95 m	
Circular 100mm	0.73 m	
Circular 100mm	12.70 m	
Circular 100mm	1.83 m	
Circular 100mm	1.39 m	
Circular 100mm	4.90 m	
Circular 100mm	1.39 m	
Circular 100mm	3.00 m	
Circular 100mm	1.00 m	
Circular 100mm	2.71 m	
Circular 100mm	6.88 m	
Circular 100mm	3.80 m	
Circular 100mm	3.25 m	
Circular 100mm	0.40 m	
Circular 100mm	1.50 m	
Circular 100mm	0.62 m	
Circular 100mm	2.38 m	
Circular 100mm	3.47 m	
Circular 100mm	4.24 m	
Circular 100mm	2.37 m	
Circular 100mm	6.77 m	
Circular 100mm	10.73 m	
Circular 100mm	0.73 m	
Circular 100mm	11.83 m	
Circular 100mm	3.25 m	
Circular 100mm	3.03 m	
Circular 100mm	7.76 m	

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Project Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Profile		Total Length	No. Pipes
Circular 100mm		2.05 m	
Circular 100mm		1.17 m	
Circular 100mm		8.53 m	
Circular 100mm		13.09 m	
Circular 100mm		14.60 m	
Circular 100mm		1.28 m	
Circular 100mm	=	191.69 m	47
Circular 150mm		7.87 m	
Circular 150mm		6.77 m	
Circular 150mm		4.90 m	
Circular 150mm		4.91 m	
Circular 150mm		2.71 m	
Circular 150mm		5.12 m	
Circular 150mm		8.53 m	
Circular 150mm		14.11 m	
Circular 150mm		7.43 m	
Circular 150mm		23.50 m	
Circular 150mm	=	85.85 m	10
Total	**=**	**277.54 m**	**57**

Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	BRANCH 1	MH.1	US	Jm10	04/04/2022	8:41	1	3	BRF, BASE OF STACK	3.91 m
2	1	BRANCH 2	MH.1	US	Jm10	04/04/2022	8:42	1	5	BRF, BASE OF STACK	1.28 m
3	1	BRANCH 3	MH.1	US	Jm10	04/04/2022	8:43	1	3	BRF, BASE OF STACK	2.60 m
4	1	BRANCH 4	MH.1	US	Jm10	04/04/2022	8:43	1	1	BRF, BASE OF STACK	2.27 m
5	1	MH.1	MH.2	DS	Jm10	04/04/2022	8:45	1	1	MHF	14.68 m
6	1	MAINRUN	MH.3	US	Jm10	04/04/2022	9:07	1	1	BRF, BASE OF STACK	2.82 m
7	1	BRANCH 1	MH.3	US	Jm10	04/04/2022	9:08	1	1	BRF, BASE OF STACK	2.49 m
8	1	BRANCH 2	MH.3	US	Jm10	04/04/2022	9:09	1	1	BRF, BASE OF STACK	1.83 m
9	1	BRANCH 3	MH.3	US	Jm10	04/04/2022	9:09	1	1	BRF, BASE OF STACK	0.73 m
10	1	MH.3	MH.4	DS	Jm10	04/04/2022	9:10	1	1	MHF	4.79 m
11	1	MH.4	MH.5	DS	Jm10	04/04/2022	9:11	1	3	MHF, DEBRIS IN CHAMBER	4.47 m
12	1	BRANCH 1	MH.4	US	Jm10	04/04/2022	9:20	1	1	BRF, BASE OF STACK	1.72 m

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Project Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
13	1	BRANCH 2	MH.4	US	Jm10	04/04/2022	9:20	1	1	BRF, BASE OF STACK	1.61 m
14	1	BRANCH 3	MH.4	US	Jm10	04/04/2022	9:21	1	1	BRF, BASE OF STACK	2.16 m
15	1	BRANCH 1	MH.5	US	Jm10	04/04/2022	9:32	1	1	BRF, BASE OF GULLY STACK	0.95 m
16	**1**	**BRANCH 2**	**MH.5**	**US**	**Jm10**	**04/04/2022**	**9:33**	**1**	**5**	**SA, DUE TO DEBRIS**	**0.73 m**
17	1	MH.5	MH.7	DS	Jm10	04/04/2022	9:58	1	3	MHF	7.87 m
18	1	MH.2	MH.7	US	Jm10	04/04/2022	10:16	1	1	MHF	6.77 m
19	1	BRANCH 1	MH.7	US	Jm10	04/04/2022	10:21	1	3	BRF, BASE OF STACK	4.90 m
20	**1**	**BRANCH 2**	**MH.7**	**US**	**Jm10**	**04/04/2022**	**10:23**	**1**	**1**	**SA, DUE TO SHARP BEND**	**4.91 m**
21	1	MH.7	MH.8	DS	Jm10	04/04/2022	10:24	1	1	MHF	2.71 m
22	1	MH.8	MH.9	DS	Jm10	04/04/2022	10:25	1	3	MHF	5.12 m
23	1	MH.10	MH.2	US	Jm10	04/04/2022	10:46	1	1	MHF	8.53 m
24	1	MH.11	MH.10	US	Jm10	04/04/2022	11:08	1	3	MHF	12.70 m
25	1	BRANCH 1	MH.10	US	Jm10	04/04/2022	11:10	1	3	BRF, BASE OF STACK	1.83 m
26	1	BRANCH 2	MH.10	US	Jm10	04/04/2022	11:11	1	1	BRF, BASE OF GULLY	1.39 m
27	1	MH.12	MH.11	US	Jm10	04/04/2022	11:20	1	1	MHF	4.90 m
28	1	MH.13	MH.12	US	Jm10	04/04/2022	11:21	1	1	MHF	1.39 m
29	1	MAINRUN	MH.13	US	Jm10	04/04/2022	11:21	1	1	GYF, BASE OF GULLY	1.72 m
30	**1**	**BRANCH 1**	**MH.11**	**US**	**Jm10**	**04/04/2022**	**11:22**	**1**	**1**	**SA, DUE TO SHARP BEND**	**0.62 m**
31	1	BRANCH 1	MH.12	US	Jm10	04/04/2022	11:27	1	1	BRF, BASE OF STACK	2.71 m
32	1	BRANCH 1	MH.13	US	Jm10	04/04/2022	11:28	1	1	BRF, BASE OF STACK	6.88 m
33	1	BRANCH 2	MH.13	US	Jm10	04/04/2022	11:29	1	3	BRF, BASE OF STACK	3.80 m
34	1	MH.15	MH.16	DS	Jm10	05/04/2022	7:32	1	4	MHF, CHAMBER SILTED	3.25 m
35	**1**	**MH.16**	**MH.17**	**DS**	**Jm10**	**05/04/2022**	**7:33**	**1**	**5**	**SA, DUE TO HEAVY SILTS**	**0.40 m**
36	**1**	**BRANCH 1**	**MH.16**	**US**	**Jm10**	**05/04/2022**	**7:35**	**1**	**1**	**SA, DUE TO SHARP BEND**	**1.28 m**
37	**1**	**BRANCH 1**	**MH.17**	**US**	**Jm10**	**05/04/2022**	**7:41**	**1**	**5**	**SA, DUE TO HEAVY SILTS**	**0.62 m**
38	1	MH.17	MH.18	DS	Jm10	05/04/2022	7:42	1	4	MHF, U.T.R SEIZED	2.38 m
39	1	BRANCH 1	MH.8	US	Jm10	05/04/2022	8:00	1	1	BRF, BASE OF STACK	3.47 m
40	1	MAINRUN	MH.9	US	Jm10	05/04/2022	8:12	1	3	BRF, BASE OF STACK	4.24 m
41	1	BRANCH 1	MH.9	US	Jm10	05/04/2022	8:13	1	1	BRF, BASE OF STACK	2.37 m
42	1	MH.9	MH.20	DS	Jm10	05/04/2022	8:19	1	1	MHF	14.11 m
43	1	MH.18	MH.19	US	Jm10	05/04/2022	8:24	1	4	MHF, U.T.R SEIZED	6.77 m
44	1	MH.19	MH.21	DS	Jm10	05/04/2022	8:36	1	3	MHF	10.73 m

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Project Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
45	**1**	**BRANCH 1**	**MH.21**	**US**	**Jm10**	**05/04/2022**	**8:54**	**1**	**1**	**SA, DUE TO SHARP BEND**	**0.73 m**
46	1	MH.23	MH.21	US	Jm10	05/04/2022	8:55	1	1	MHF	11.83 m
47	1	MH.21	MH.22	DS	Jm10	05/04/2022	8:57	1	1	MHF, ASSUMED SOAKAWAY BURIED NO COVER	3.25 m
48	1	MH.20	MH.24	DS	Jm10	05/04/2022	9:05	1	1	MHF	7.43 m
49	1	BRANCH 1	MH.24	US	Jm10	05/04/2022	9:16	1	1	BRF, BASE OF STACK	3.03 m
50	**1**	**BRANCH 2**	**MH.24**	**US**	**Jm10**	**05/04/2022**	**9:17**	**1**	**1**	**SA, DUE TO SHARP BEND**	**7.76 m**
51	1	MH.24	MH.25	DS	Jm10	05/04/2022	9:20	1	1	MHF, MAIN SEWER U.T.R	23.50 m
52	1	BRANCH 1	MH.23	US	Jm10	05/04/2022	9:35	1	1	BRF, BASE OF ACO	2.05 m
53	1	BRANCH 2	MH.23	US	Jm10	05/04/2022	9:36	1	1	GYF, BASE OF RWP	1.17 m
54	1	MH.26	MH.23	US	Jm10	05/04/2022	9:37	1	1	MHF	8.53 m
55	1	MH.27	MH.26	US	Jm10	05/04/2022	9:39	1	3	MHF, SILT IN CHAMBER	13.09 m
56	1	RODDING EY	MH.27	US	Jm10	05/04/2022	10:08	1	1	REF	14.60 m
57	1	BRANCH 1	MH.27	US	Jm10	05/04/2022	10:12	1	3	BRF, BASE OF ACO	1.28 m
										Total:	**275.66 m**

Inspection Summary by Profile

Profile	Total Length	No. Inspections
Circular 100mm	3.91 m	
Circular 100mm	1.28 m	
Circular 100mm	2.60 m	
Circular 100mm	2.27 m	
Circular 100mm	14.68 m	
Circular 100mm	2.82 m	
Circular 100mm	2.49 m	
Circular 100mm	1.83 m	
Circular 100mm	0.73 m	
Circular 100mm	4.79 m	
Circular 100mm	4.47 m	
Circular 100mm	1.72 m	
Circular 100mm	1.61 m	
Circular 100mm	2.16 m	
Circular 100mm	0.95 m	
Circular 100mm	0.73 m	
Circular 100mm	12.70 m	
Circular 100mm	1.83 m	
Circular 100mm	1.39 m	

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Project Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Profile		Total Length	No. Inspections
Circular 100mm		4.90 m	
Circular 100mm		1.39 m	
Circular 100mm		1.72 m	
Circular 100mm		0.62 m	
Circular 100mm		2.71 m	
Circular 100mm		6.88 m	
Circular 100mm		3.80 m	
Circular 100mm		3.25 m	
Circular 100mm		0.40 m	
Circular 100mm		1.28 m	
Circular 100mm		0.62 m	
Circular 100mm		2.38 m	
Circular 100mm		3.47 m	
Circular 100mm		4.24 m	
Circular 100mm		2.37 m	
Circular 100mm		6.77 m	
Circular 100mm		10.73 m	
Circular 100mm		0.73 m	
Circular 100mm		11.83 m	
Circular 100mm		3.25 m	
Circular 100mm		3.03 m	
Circular 100mm		7.76 m	
Circular 100mm		2.05 m	
Circular 100mm		1.17 m	
Circular 100mm		8.53 m	
Circular 100mm		13.09 m	
Circular 100mm		14.60 m	
Circular 100mm		1.28 m	
Circular 100mm	=	189.81 m	47
Circular 150mm		7.87 m	
Circular 150mm		6.77 m	
Circular 150mm		4.90 m	
Circular 150mm		4.91 m	
Circular 150mm		2.71 m	
Circular 150mm		5.12 m	
Circular 150mm		8.53 m	
Circular 150mm		14.11 m	
Circular 150mm		7.43 m	
Circular 150mm		23.50 m	
Circular 150mm	=	85.85 m	10
Total	**=**	**275.66 m**	**57**

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Project Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Defect Summary

				CCTV Drainage Survey Observation Count																				
				General				Structural Condition									Service Condition							
Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
1	1	BRANCH 1	MH.1	3.9											1								1	
2	1	BRANCH 2	MH.1	1.3											1								1	
3	1	BRANCH 3	MH.1	2.6											1								1	1
4	1	BRANCH 4	MH.1	2.3																			1	
5	1	MH.1	MH.2	14.7																			1	2
6	1	MAINRUN	MH.3	2.8																			1	
7	1	BRANCH 1	MH.3	2.5																			1	
8	1	BRANCH 2	MH.3	1.8																			1	
9	1	BRANCH 3	MH.3	0.7																			1	
10	1	MH.3	MH.4	4.8																			1	
11	1	MH.4	MH.5	4.5											1								1	3
12	1	BRANCH 1	MH.4	1.7																			1	1
13	1	BRANCH 2	MH.4	1.6																			1	1
14	1	BRANCH 3	MH.4	2.2																			1	
15	1	BRANCH 1	MH.5	0.9																			1	
16	**1**	**BRANCH 2**	**MH.5**	**0.7**		**1**																	**1**	
17	1	MH.5	MH.7	7.9																			1	2
18	1	MH.2	MH.7	6.8																			1	1
19	1	BRANCH 1	MH.7	4.9																1			1	1
20	**1**	**BRANCH 2**	**MH.7**	**4.9**		**1**																	**1**	**3**
21	1	MH.7	MH.8	2.7																			1	
22	1	MH.8	MH.9	5.1																1			1	
23	1	MH.10	MH.2	8.5																			1	3
24	1	MH.11	MH.10	12.7																1			1	1
25	1	BRANCH 1	MH.10	1.8											1								1	
26	1	BRANCH 2	MH.10	1.4																			1	1
27	1	MH.12	MH.11	4.9																			1	1

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Project Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
28	1	MH.13	MH.12	1.4																			1	
29	1	MAINRUN	MH.13	1.7																			1	
30	**1**	**BRANCH 1**	**MH.11**	**0.6**		**1**																	**1**	**1**
31	1	BRANCH 1	MH.12	2.7																			1	1
32	1	BRANCH 1	MH.13	6.9																			1	1
33	1	BRANCH 2	MH.13	3.8											1								1	3
34	1	MH.15	MH.16	3.3	1															2			1	
35	**1**	**MH.16**	**MH.17**	**0.4**	**1**	**1**														**1**			**1**	
36	**1**	**BRANCH 1**	**MH.16**	**1.3**		**1**																	**1**	**1**
37	**1**	**BRANCH 1**	**MH.17**	**0.6**	**1**	**1**														**1**			**1**	
38	1	MH.17	MH.18	2.4	1															3			1	
39	1	BRANCH 1	MH.8	3.5																			1	
40	1	MAINRUN	MH.9	4.2																1			1	1
41	1	BRANCH 1	MH.9	2.4																			1	1
42	1	MH.9	MH.20	14.1																			1	1
43	1	MH.18	MH.19	6.8	2															2			1	
44	1	MH.19	MH.21	10.7																1			2	
45	**1**	**BRANCH 1**	**MH.21**	**0.7**		**1**																	**1**	**1**
46	1	MH.23	MH.21	11.8																			1	2
47	1	MH.21	MH.22	3.3																			1	
48	1	MH.20	MH.24	7.4																			1	2
49	1	BRANCH 1	MH.24	3.0																			1	
50	**1**	**BRANCH 2**	**MH.24**	**7.8**		**1**																	**1**	**3**
51	1	MH.24	MH.25	23.5																			2	2
52	1	BRANCH 1	MH.23	2.0																			1	2
53	1	BRANCH 2	MH.23	1.2																			1	
54	1	MH.26	MH.23	8.5																			1	1
55	1	MH.27	MH.26	13.1																1			2	
56	1	RODDING EY	MH.27	14.6																			1	1

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Project Summary

Project Name	Project Number	Project Date
13621 50-56 SHEEN ROAD RICHMOND		04/04/2022

Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
57	1	BRANCH 1	MH.27	1.3																1			1	1
			Total:	**275.7**	**6**	**8**														**16**			**60**	**46**

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Section Inspection - 04/04/2022 - BRANCH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	04/04/22	8:41	13621	No Rain Or Snow	No	BRANCH 1X

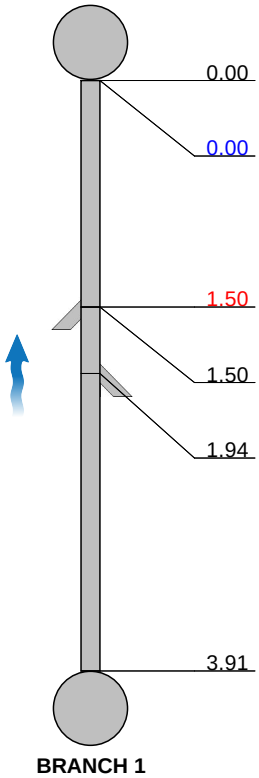
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 1
Road:	50-56 Sheen Road	**Inspected Length:**	3.91 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	3.91 m	**Downstream Node:**	MH.1
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.460 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: PATCH REPAIR REQUIRED

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.1	
0.00	WL	Water level, 5% of the vertical dimension	
1.50	JDM	Joint displaced, medium	1 / 3
1.50	JN	Junction at 3 o'clock, 100mm dia	
1.94	JN	Junction at 9 o'clock, 100mm dia	
3.91	BRF	Finish node, major connection without manhole, reference: BRANCH 1: BASE OF STACK	


MH - 0.00 m

JDM - 1.50 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**
1	1.0	0.7	1.0	1.0	1	2.0	1.3	2.0	3.0

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Section Pictures - 04/04/2022 - BRANCH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	2	BRANCH 1X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_1_001.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.1

_50-56 SHEEN ROAD_RICHMOND_1_002.jpg, 00:00:09, 1.50 m
Joint displaced, medium

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Section Inspection - 04/04/2022 - BRANCH 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	04/04/22	8:42	13621	No Rain Or Snow	No	BRANCH 2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 2
Road:	50-56 Sheen Road	**Inspected Length:**	1.28 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.28 m	**Downstream Node:**	MH.1
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.460 m

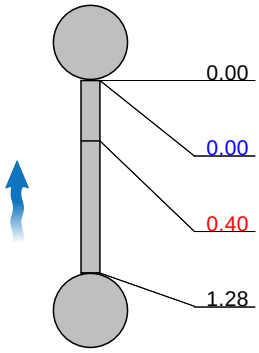
Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Depth: 0.46 m

MH.1



BRANCH 2

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.1	
0.00	WL	Water level, 5% of the vertical dimension	
0.40	JDM	Joint displaced, medium	1 / 3
1.28	BRF	Finish node, major connection without manhole, reference: BRANCH 2: BASE OF STACK	

MH - 0.00 m

JDM - 0.40 m

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**
1	1.0	2.5	1.0	1.0	1	2.0	5.0	2.0	5.0

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Section Pictures - 04/04/2022 - BRANCH 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	2	BRANCH 2X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_2_003.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.1

_50-56 SHEEN ROAD_RICHMOND_2_004.jpg, 00:00:00, 0.40 m
Joint displaced, medium

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Section Inspection - 04/04/2022 - BRANCH 3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	04/04/22	8:43	13621	No Rain Or Snow	No	BRANCH 3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 3
Road:	50-56 Sheen Road	**Inspected Length:**	2.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.60 m	**Downstream Node:**	MH.1
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.460 m

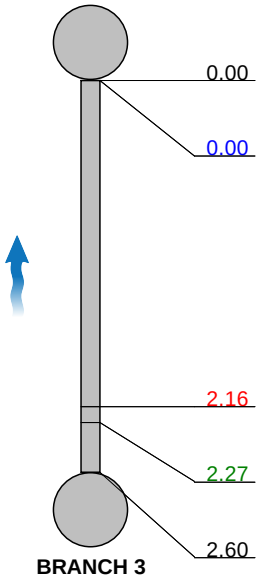
Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: JETTING AND RESURVEY REQUIRED

Scale: 1:50

Depth: 0.46 m

MH.1



BRANCH 3

Depth: 0.00 m

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.1	
0.00	WL	Water level, 5% of the vertical dimension	
2.16	JDM	Joint displaced, medium	1 / 3
2.27	LL	Line deviates left: SLIGHT	
2.60	BRF	Finish node, major connection without manhole, reference: BRANCH 3: BASE OF STACK	

MH - 0.00 m

JDM - 2.16 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**
1	1.0	0.5	1.0	1.0	1	2.0	0.9	2.0	3.0

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Section Pictures - 04/04/2022 - BRANCH 3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	2	BRANCH 3X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_3_005.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.1

_50-56 SHEEN ROAD_RICHMOND_3_006.jpg, 00:00:11, 2.16 m
Joint displaced, medium

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Section Inspection - 04/04/2022 - BRANCH 4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	04/04/22	8:43	13621	No Rain Or Snow	No	BRANCH 4X

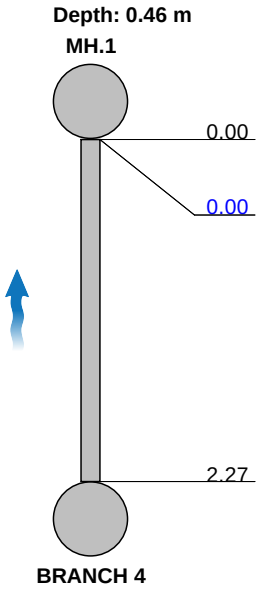
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 4
Road:	50-56 Sheen Road	**Inspected Length:**	2.27 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.27 m	**Downstream Node:**	MH.1
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.460 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.1	
0.00	WL	Water level, 5% of the vertical dimension	
2.27	BRF	Finish node, major connection without manhole, reference: BRANCH 4: BASE OF STACK	


MH - 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

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Section Pictures - 04/04/2022 - BRANCH 4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	2	BRANCH 4X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_4_007.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.1

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Section Inspection - 04/04/2022 - MH.1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	04/04/22	8:45	13621	No Rain Or Snow	No	MH.1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	1	**Upstream Node:**	MH.1
Road:	50-56 Sheen Road	**Inspected Length:**	14.68 m	**Upstream Pipe Depth:**	0.460 m
Location:	Property or buildings	**Total Length:**	14.68 m	**Downstream Node:**	MH.2
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.990 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:127

Position [m]	Code	Observation	Grade
		Depth: 0.46 m	
		MH.1	
0.00	MH	Start node, manhole, reference: MH.1	
0.00	WL	Water level, 5% of the vertical dimension	
6.11	JN	Junction at 9 o'clock, 100mm dia	
12.27	LR	Line deviates right: SLIGHT	
13.58	LR	Line deviates right: SLIGHT	
14.68	MHF	Finish node, manhole, reference: MH.2	
		MH.2	
		Depth: 0.99 m	


MH - 0.00 m


MHF - 14.68 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 Pictures - 04/04/2022 - MH.1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	1	MH.1X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_5_008.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.1

_50-56 SHEEN ROAD_RICHMOND_5_009.jpg, 00:01:17, 14.68 m
Finish node, manhole, reference: MH.2

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Section Inspection - 04/04/2022 - MAINRUNX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	04/04/22	9:07	13621	No Rain Or Snow	No	MAINRUNX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	MAINRUN
Road:	50-56 Sheen Road	**Inspected Length:**	2.82 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.82 m	**Downstream Node:**	MH.3
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.520 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
Depth: 0.52 m			
MH.3			
0.00	MH	Start node, manhole, reference: MH.3	
0.00	WL	Water level, 5% of the vertical dimension	
2.82	BRF	Finish node, major connection without manhole, reference: MAINRUN: BASE OF STACK	
MAINRUN			
Depth: 0.00 m			


MH - 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

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Section Pictures - 04/04/2022 - MAINRUNX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	2	MAINRUNX	13621	13621

_50-56 SHEEN ROAD_RICHMOND_6_010.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.3

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Section Inspection - 04/04/2022 - BRANCH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	04/04/22	9:08	13621	No Rain Or Snow	No	BRANCH 1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 1
Road:	50-56 Sheen Road	**Inspected Length:**	2.49 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.49 m	**Downstream Node:**	MH.3
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.520 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 0.52 m	
		MH.3	
0.00	MH	Start node, manhole, reference: MH.3	
0.00	WL	Water level, 0% of the vertical dimension	
2.49	BRF	Finish node, major connection without manhole, reference: BRANCH 1: BASE OF STACK	
		BRANCH 1	
		Depth: 0.00 m	


MH - 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

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Section Pictures - 04/04/2022 - BRANCH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	2	BRANCH 1X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_7_011.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.3

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Section Inspection - 04/04/2022 - BRANCH 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	04/04/22	9:09	13621	No Rain Or Snow	No	BRANCH 2X

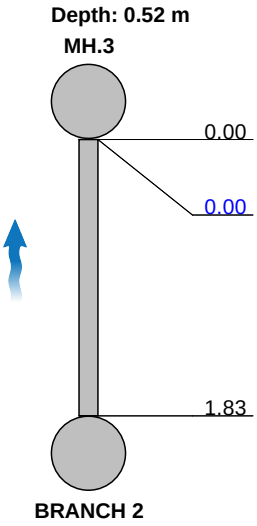
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 2
Road:	50-56 Sheen Road	**Inspected Length:**	1.83 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.83 m	**Downstream Node:**	MH.3
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.520 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.3	
0.00	WL	Water level, 0% of the vertical dimension	
1.83	BRF	Finish node, major connection without manhole, reference: BRANCH 2: BASE OF STACK	


MH - 0.00 m

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

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Section Pictures - 04/04/2022 - BRANCH 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	2	BRANCH 2X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_8_012.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.3

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Section Inspection - 04/04/2022 - BRANCH 3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	04/04/22	9:09	13621	No Rain Or Snow	No	BRANCH 3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 3
Road:	50-56 Sheen Road	**Inspected Length:**	0.73 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.73 m	**Downstream Node:**	MH.3
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.520 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50	Position [m]	Code	Observation	Grade
Depth: 0.52 m				
MH.3				
	0.00	MH	Start node, manhole, reference: MH.3	
	0.00	WL	Water level, 5% of the vertical dimension	
	0.73	BRF	Finish node, major connection without manhole, reference: BRANCH 3: BASE OF STACK	
BRANCH 3				


MH - 0.00 m

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

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Section Pictures - 04/04/2022 - BRANCH 3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	2	BRANCH 3X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_9_013.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.3

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Section Inspection - 04/04/2022 - MH.3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	04/04/22	9:10	13621	No Rain Or Snow	No	MH.3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	1	**Upstream Node:**	MH.3
Road:	50-56 Sheen Road	**Inspected Length:**	4.79 m	**Upstream Pipe Depth:**	0.520 m
Location:	Property or buildings	**Total Length:**	4.79 m	**Downstream Node:**	MH.4
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.920 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50	Position [m]	Code	Observation	Grade
Depth: 0.52 m				
MH.3				
	0.00	MH	Start node, manhole, reference: MH.3	
	0.00	WL	Water level, 5% of the vertical dimension	
	4.79	MHF	Finish node, manhole, reference: MH.4	
MH.4				
Depth: 0.92 m				


MH - 0.00 m


MHF - 4.79 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 Pictures - 04/04/2022 - MH.3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	1	MH.3X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_10_014.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.3

_50-56 SHEEN ROAD_RICHMOND_10_015.jpg, 00:00:20, 4.79 m
Finish node, manhole, reference: MH.4

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Section Inspection - 04/04/2022 - MH.4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	04/04/22	9:11	13621	No Rain Or Snow	No	MH.4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	1	**Upstream Node:**	MH.4
Road:	50-56 Sheen Road	**Inspected Length:**	4.47 m	**Upstream Pipe Depth:**	0.920 m
Location:	Property or buildings	**Total Length:**	4.47 m	**Downstream Node:**	MH.5
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	1.280 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: REMEDIAL WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 0.92 m	
		MH.4	
0.00	MH	Start node, manhole, reference: MH.4	
0.00	WL	Water level, 0% of the vertical dimension	
1.06	LR	Line deviates right: SLIGHT	
2.49	JDM	Joint displaced, medium	1 / 3
2.71	LL	Line deviates left: SLIGHT	
3.92	LL	Line deviates left: SLIGHT	
4.47	MHF	Finish node, manhole, reference: MH.5: DEBRIS IN CHAMBER	
		MH.5	
		Depth: 1.28 m	


MH - 0.00 m

JDM - 2.49 m


MHF - 4.47 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**
1	1.0	0.4	1.0	1.0	1	2.0	0.8	2.0	3.0

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Section Pictures - 04/04/2022 - MH.4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	1	MH.4X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_11_016.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.4

_50-56 SHEEN ROAD_RICHMOND_11_017.jpg, 00:00:11, 2.49 m
Joint displaced, medium

_50-56 SHEEN ROAD_RICHMOND_11_018.jpg, 00:00:22, 4.47 m
Finish node, manhole, reference: MH.5, DEBRIS IN

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Section Inspection - 04/04/2022 - BRANCH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	04/04/22	9:20	13621	No Rain Or Snow	No	BRANCH 1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 1
Road:	50-56 Sheen Road	**Inspected Length:**	1.72 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.72 m	**Downstream Node:**	MH.4
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.920 m

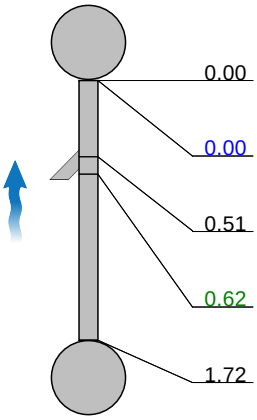
Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Depth: 0.92 m

MH.4



BRANCH 1

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.4	
0.00	WL	Water level, 0% of the vertical dimension	
0.51	JN	Junction at 3 o'clock, 100mm dia	
0.62	LL	Line deviates left: SLIGHT	
1.72	BRF	Finish node, major connection without manhole, reference: BRANCH 1: BASE OF STACK	

MH - 0.00 m

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

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Section Pictures - 04/04/2022 - BRANCH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	2	BRANCH 1X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_12_019.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.4

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Section Inspection - 04/04/2022 - BRANCH 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	04/04/22	9:20	13621	No Rain Or Snow	No	BRANCH 2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 2
Road:	50-56 Sheen Road	**Inspected Length:**	1.61 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.61 m	**Downstream Node:**	MH.4
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.920 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 0.92 m	
		MH.4	
0.00	MH	Start node, manhole, reference: MH.4	
0.00	WL	Water level, 0% of the vertical dimension	
0.40	LR	Line deviates right: SLIGHT	
1.61	BRF	Finish node, major connection without manhole, reference: BRANCH 2: BASE OF STACK	
		BRANCH 2	


MH - 0.00 m

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

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Section Pictures - 04/04/2022 - BRANCH 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	2	BRANCH 2X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_13_020.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.4

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Section Inspection - 04/04/2022 - BRANCH 3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	04/04/22	9:21	13621	No Rain Or Snow	No	BRANCH 3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 3
Road:	50-56 Sheen Road	**Inspected Length:**	2.16 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.16 m	**Downstream Node:**	MH.4
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.920 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 0.92 m	
		MH.4	
0.00	MH	Start node, manhole, reference: MH.4	
0.00	WL	Water level, 5% of the vertical dimension	
0.73	JN	Junction at 12 o'clock, 100mm dia	
2.16	BRF	Finish node, major connection without manhole, reference: BRANCH 3: BASE OF STACK	
		BRANCH 3	
		Depth: 0.00 m	


MH - 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

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Section Pictures - 04/04/2022 - BRANCH 3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	2	BRANCH 3X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_14_021.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.4

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Section Inspection - 04/04/2022 - BRANCH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	04/04/22	9:32	13621	No Rain Or Snow	No	BRANCH 1X

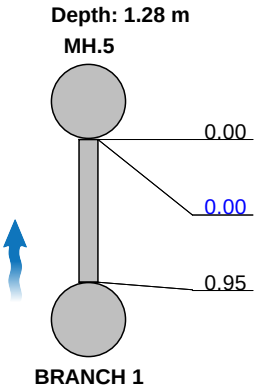
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 1
Road:	50-56 Sheen Road	**Inspected Length:**	0.95 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.95 m	**Downstream Node:**	MH.5
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	1.280 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.5	
0.00	WL	Water level, 0% of the vertical dimension	
0.95	BRF	Finish node, major connection without manhole, reference: BRANCH 1: BASE OF GULLY STACK	


MH - 0.00 m

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

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Section Pictures - 04/04/2022 - BRANCH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
15	2	BRANCH 1X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_15_022.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.5

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Section Inspection - 04/04/2022 - BRANCH 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	04/04/22	9:33	13621	No Rain Or Snow	No	BRANCH 2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

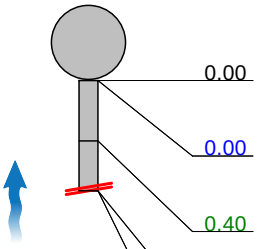
Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 2
Road:	50-56 Sheen Road	**Inspected Length:**	0.73 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.73 m	**Downstream Node:**	MH.5
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	1.280 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: JETTING AND RESURVEY REQUIRED

Scale: 1:50

Depth: 1.28 m
MH.5



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.5	
0.00	WL	Water level, 0% of the vertical dimension	
0.40	DER	Settled deposits, coarse, 20% cross-sectional area loss	4
0.73	DER	Settled deposits, coarse, 40% cross-sectional area loss	4
0.73	SA	Survey abandoned: DUE TO DEBRIS	

MH - 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	2	5.0	13.7	10.0	5.0

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Section Pictures - 04/04/2022 - BRANCH 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
16	2	BRANCH 2X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_16_023.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.5

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Section Inspection - 04/04/2022 - MH.5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	04/04/22	9:58	13621	No Rain Or Snow	No	MH.5X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	1	**Upstream Node:**	MH.5
Road:	50-56 Sheen Road	**Inspected Length:**	7.87 m	**Upstream Pipe Depth:**	1.280 m
Location:	Property or buildings	**Total Length:**	7.87 m	**Downstream Node:**	MH.7
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	1.420 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: JETTING AND RESURVEY REQUIRED

Scale: 1:68

Position [m]	Code	Observation	Grade
		Depth: 1.28 m	
		MH.5	
0.00	MH	Start node, manhole, reference: MH.5	
0.00	WL	Water level, 0% of the vertical dimension	
0.40	DER	Settled deposits, coarse, 10% cross-sectional area loss	3
7.22	LR	Line deviates right: SLIGHT	
7.54	LD	Line deviates down: SHARP	
7.87	MHF	Finish node, manhole, reference: MH.7	
		MH.7	
		Depth: 1.42 m	


MH - 0.00 m


MHF - 7.87 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	1	2.0	0.3	2.0	3.0

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Section Pictures - 04/04/2022 - MH.5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
17	1	MH.5X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_17_024.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.5

_50-56 SHEEN ROAD_RICHMOND_17_025.jpg, 00:00:36, 7.87 m
Finish node, manhole, reference: MH.7

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Section Inspection - 04/04/2022 - MH.2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	04/04/22	10:16	13621	No Rain Or Snow	No	MH.2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	MH.2
Road:	50-56 Sheen Road	**Inspected Length:**	6.77 m	**Upstream Pipe Depth:**	0.990 m
Location:	Property or buildings	**Total Length:**	6.77 m	**Downstream Node:**	MH.7
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	1.420 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:59

Position [m]	Code	Observation	Grade
		Depth: 1.42 m	
		MH.7	
0.00	MH	Start node, manhole, reference: MH.7	
0.00	WL	Water level, 0% of the vertical dimension	
1.28	LR	Line deviates right: SLIGHT	
6.77	MHF	Finish node, manhole, reference: MH.2	
		MH.2	
		Depth: 0.99 m	


MH - 0.00 m


MHF - 6.77 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 Pictures - 04/04/2022 - MH.2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
18	2	MH.2X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_18_026.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.7

_50-56 SHEEN ROAD_RICHMOND_18_027.jpg, 00:00:30, 6.77 m
Finish node, manhole, reference: MH.2

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Section Inspection - 04/04/2022 - BRANCH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	04/04/22	10:21	13621	No Rain Or Snow	No	BRANCH 1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 1
Road:	50-56 Sheen Road	**Inspected Length:**	4.90 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.90 m	**Downstream Node:**	MH.7
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	1.420 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: JETTING AND RESURVEY REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
Depth: 1.42 m			
MH.7			
0.00	MH	Start node, manhole, reference: MH.7	
0.00	WL	Water level, 5% of the vertical dimension	
0.95	DES	Settled deposits, fine, 10% cross-sectional area loss	3
1.50	LU	Line deviates up: SHARP	
4.90	BRF	Finish node, major connection without manhole, reference: BRANCH 1: BASE OF STACK	
BRANCH 1			
Depth: 0.00 m			


MH - 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	1	2.0	0.4	2.0	3.0

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Section Pictures - 04/04/2022 - BRANCH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	2	BRANCH 1X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_19_028.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.7

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Section Inspection - 04/04/2022 - BRANCH 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	04/04/22	10:23	13621	No Rain Or Snow	No	BRANCH 2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

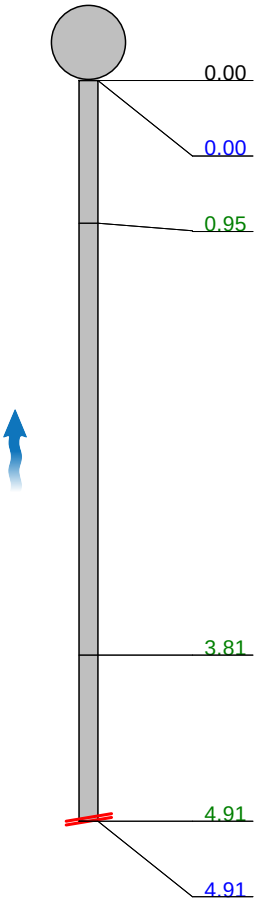
Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 2
Road:	50-56 Sheen Road	**Inspected Length:**	4.91 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.91 m	**Downstream Node:**	MH.7
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	1.420 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Depth: 1.42 m
MH.7



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.7	
0.00	WL	Water level, 10% of the vertical dimension	
0.95	LR	Line deviates right: SHARP	
3.81	LL	Line deviates left: SHARP	
4.91	LL	Line deviates left: SHARP	
4.91	SA	Survey abandoned: DUE TO SHARP BEND	

MH - 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

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Section Pictures - 04/04/2022 - BRANCH 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	2	BRANCH 2X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_20_029.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.7

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Section Inspection - 04/04/2022 - MH.7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	04/04/22	10:24	13621	No Rain Or Snow	No	MH.7X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	1	**Upstream Node:**	MH.7
Road:	50-56 Sheen Road	**Inspected Length:**	2.71 m	**Upstream Pipe Depth:**	1.420 m
Location:	Property or buildings	**Total Length:**	2.71 m	**Downstream Node:**	MH.8
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.000 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 1.42 m	
		MH.7	
0.00	MH	Start node, manhole, reference: MH.7	
0.00	WL	Water level, 5% of the vertical dimension	
2.71	MHF	Finish node, manhole, reference: MH.8	
		MH.8	
		Depth: 0.00 m	


MH - 0.00 m


MHF - 2.71 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 Pictures - 04/04/2022 - MH.7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	1	MH.7X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_21_030.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.7

_50-56 SHEEN ROAD_RICHMOND_21_087.jpg, 00:00:14, 2.71 m
Finish node, manhole, reference: MH.8

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Section Inspection - 04/04/2022 - MH.8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	04/04/22	10:25	13621	No Rain Or Snow	No	MH.8X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	1	**Upstream Node:**	MH.8
Road:	50-56 Sheen Road	**Inspected Length:**	5.12 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.12 m	**Downstream Node:**	MH.9
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.000 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: JETTING AND RESURVEY REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
Depth: 0.00 m			
MH.8			
0.00	MH	Start node, manhole, reference: MH.8	
0.00	WL	Water level, 10% of the vertical dimension	
0.51	DES	Settled deposits, fine, 10% cross-sectional area loss	3
5.12	MHF	Finish node, manhole, reference: MH.9	
MH.9			
Depth: 0.00 m			


MH - 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	1	2.0	0.4	2.0	3.0

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Section Pictures - 04/04/2022 - MH.8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
22	1	MH.8X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_22_086.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.8

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Section Inspection - 04/04/2022 - MH.10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	04/04/22	10:46	13621	No Rain Or Snow	No	MH.10X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	MH.10
Road:	50-56 Sheen Road	**Inspected Length:**	8.53 m	**Upstream Pipe Depth:**	0.640 m
Location:	Property or buildings	**Total Length:**	8.53 m	**Downstream Node:**	MH.2
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.990 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:74

Position [m]	Code	Observation	Grade
		Depth: 0.99 m	
		MH.2	
0.00	MH	Start node, manhole, reference: MH.2	
0.00	WL	Water level, 5% of the vertical dimension	
1.06	LL	Line deviates left: SLIGHT	
2.70	LR	Line deviates right: SLIGHT	
7.76	LR	Line deviates right: SLIGHT	
8.53	MHF	Finish node, manhole, reference: MH.10	
		MH.10	
		Depth: 0.64 m	


MH - 0.00 m


MHF - 8.53 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 Pictures - 04/04/2022 - MH.10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	2	MH.10X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_23_031.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.2

_50-56 SHEEN ROAD_RICHMOND_23_032.jpg, 00:00:57, 8.53 m
Finish node, manhole, reference: MH.10

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Section Inspection - 04/04/2022 - MH.11X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	04/04/22	11:08	13621	No Rain Or Snow	No	MH.11X

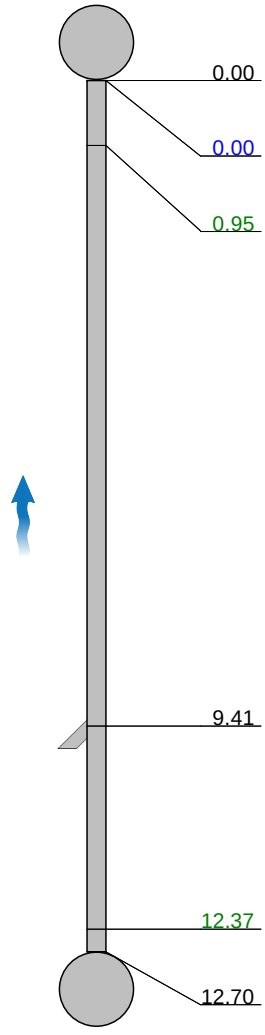
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	MH.11
Road:	50-56 Sheen Road	**Inspected Length:**	12.70 m	**Upstream Pipe Depth:**	0.530 m
Location:	Property or buildings	**Total Length:**	12.70 m	**Downstream Node:**	MH.10
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.640 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: JETTING AND RESURVEY REQUIRED

Scale: 1:110



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.10	
0.00	WL	Water level, 10% of the vertical dimension	
0.95	DES	Settled deposits, fine, 5% cross-sectional area loss	3
9.41	JN	Junction at 3 o'clock, 100mm dia	
12.37	LR	Line deviates right: SLIGHT	
12.70	MHF	Finish node, manhole, reference: MH.11	


MH - 0.00 m


MHF - 12.70 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	1	2.0	0.2	2.0	3.0

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Section Pictures - 04/04/2022 - MH.11X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
24	2	MH.11X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_24_033.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.10

_50-56 SHEEN ROAD_RICHMOND_24_034.jpg, 00:00:48, 12.70 m
Finish node, manhole, reference: MH.11

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Section Inspection - 04/04/2022 - BRANCH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	04/04/22	11:10	13621	No Rain Or Snow	No	BRANCH 1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

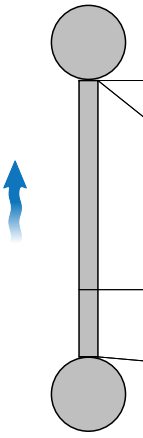
Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 1
Road:	50-56 Sheen Road	**Inspected Length:**	1.83 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.83 m	**Downstream Node:**	MH.10
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.640 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: PATCH REPAIR REQUIRED

Scale: 1:50

Depth: 0.64 m
MH.10



BRANCH 1

Depth: 0.00 m

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.10	
0.00	WL	Water level, 0% of the vertical dimension	
1.39	JDM	Joint displaced, medium	1 / 3
1.83	BRF	Finish node, major connection without manhole, reference: BRANCH 1: BASE OF STACK	

MH - 0.00 m

JDM - 1.39 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**
1	1.0	0.7	1.0	1.0	1	2.0	1.4	2.0	3.0

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Section Pictures - 04/04/2022 - BRANCH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	2	BRANCH 1X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_25_035.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.10

_50-56 SHEEN ROAD_RICHMOND_25_036.jpg, 00:00:08, 1.39 m
Joint displaced, medium

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Section Inspection - 04/04/2022 - BRANCH 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	04/04/22	11:11	13621	No Rain Or Snow	No	BRANCH 2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

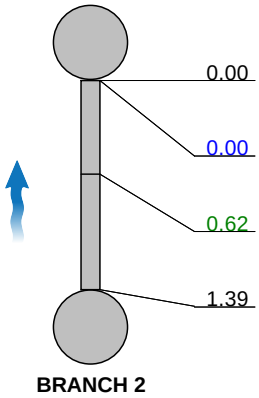
Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	BRANCH 2
Road:	50-56 Sheen Road	**Inspected Length:**	1.39 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.39 m	**Downstream Node:**	MH.10
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.640 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Depth: 0.64 m
MH.10



BRANCH 2

Depth: 0.00 m

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.10	
0.00	WL	Water level, 5% of the vertical dimension	
0.62	LL	Line deviates left: SHARP	
1.39	BRF	Finish node, major connection without manhole, reference: BRANCH 2: BASE OF GULLY	

MH - 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

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Section Pictures - 04/04/2022 - BRANCH 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
26	2	BRANCH 2X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_26_037.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.10

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Section Inspection - 04/04/2022 - MH.12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	04/04/22	11:20	13621	No Rain Or Snow	No	MH.12X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	MH.12
Road:	50-56 Sheen Road	**Inspected Length:**	4.90 m	**Upstream Pipe Depth:**	0.480 m
Location:	Property or buildings	**Total Length:**	4.90 m	**Downstream Node:**	MH.11
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.530 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 0.53 m	
		MH.11	
0.00	MH	Start node, manhole, reference: MH.11	
0.00	WL	Water level, 5% of the vertical dimension	
0.40	LR	Line deviates right: SLIGHT	
4.90	MHF	Finish node, manhole, reference: MH.12	
		MH.12	
		Depth: 0.48 m	


MH - 0.00 m


MHF - 4.90 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 Pictures - 04/04/2022 - MH.12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
27	2	MH.12X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_27_038.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.11

_50-56 SHEEN ROAD_RICHMOND_27_039.jpg, 00:00:18, 4.90 m
Finish node, manhole, reference: MH.12

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Section Inspection - 04/04/2022 - MH.13X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
28	1	04/04/22	11:21	13621	No Rain Or Snow	No	MH.13X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	MH.13
Road:	50-56 Sheen Road	**Inspected Length:**	1.39 m	**Upstream Pipe Depth:**	0.470 m
Location:	Property or buildings	**Total Length:**	1.39 m	**Downstream Node:**	MH.12
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.480 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 0.48 m	
		MH.12	
0.00	MH	Start node, manhole, reference: MH.12	
0.00	WL	Water level, 5% of the vertical dimension	
1.39	MHF	Finish node, manhole, reference: MH.13	
		MH.13	
		Depth: 0.47 m	


MH - 0.00 m


MHF - 1.39 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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UNIT 301 OLD BARN FARM ROAD, WIMBORNE
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andyg@clearviewsurveys.co.uk

Section Pictures - 04/04/2022 - MH.13X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
28	2	MH.13X	13621	13621

_50-56 SHEEN ROAD_RICHMOND_28_040.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.12

_50-56 SHEEN ROAD_RICHMOND_28_041.jpg, 00:00:07, 1.39 m
Finish node, manhole, reference: MH.13

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Section Inspection - 04/04/2022 - MAINRUNX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
29	1	04/04/22	11:21	13621	No Rain Or Snow	No	MAINRUNX

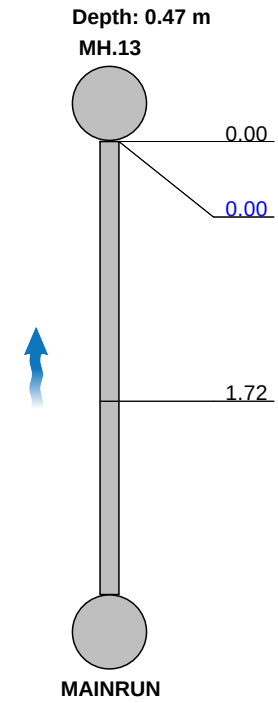
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JM10	P30 CVS	Flexirpobe	0.40 m	Private Sewer	Not Specified

Town or Village:	Richmond	**Inspection Direction:**	2	**Upstream Node:**	MAINRUN
Road:	50-56 Sheen Road	**Inspected Length:**	1.72 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	3.00 m	**Downstream Node:**	MH.13
Surface Type:	Concrete Footway	**Joint Length:**	0.90 m	**Downstream Pipe Depth:**	0.470 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	1960	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations: NO FURTHER WORKS REQUIRED

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH.13	
0.00	WL	Water level, 5% of the vertical dimension	
1.72	GYF	Finish node, gully, reference: MAINRUN: BASE OF GULLY	


MH - 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

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Section Pictures - 04/04/2022 - MAINRUNX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
29	2	MAINRUNX	13621	13621

_50-56 SHEEN ROAD_RICHMOND_29_042.jpg, 00:00:00, 0.00 m
Start node, manhole, reference: MH.13