HEXA

GOMERSAL ST MARYS PRIMARY SCHOOL

Sustainable Drainage Strategy

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Date: 30/03/26
Revision: P02

Engineering opportunity.

hexaconsulting.co.uk

Revision	Description	Issued	Checked	Date
P01	Initial Issue	SM	RR	17/03/26
P02	Drawings Updates	SM	RR	30/03/26

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1.0 Introduction

1.1 Scope

Hexa have been appointed by Bowmer and Kirkland to produce a Drainage Strategy to support a planning application for the development of Gomersal St Mary's Primary School, off Shirley Avenue, Gomersal, BD19 4NA.

1.2 Flood Risk Assessment and Drainage Strategy

This report will assess the site's existing drainage provision and provide a drainage strategy for the proposed development. The report should be read in conjunction with the third party FRA:

- 681977-R1(1)-FRA – Flood Risk Assessment

The assessment has been undertaken in accordance with best practice guidance, including, but not limited to, the following:

- National Planning Policy Framework (NPPF)
- CIRIA C753: The SuDS Manual
- Flood Risk Assessments: Climate Change Allowances 2022
- Sustainable Drainage Systems: Non-Statutory Technical Standards (DEFRA)
- West Yorkshire Combined Authority (WYCA) SuDS Guidance

2.0 Development Site and Location

2.1 Location

The site is located off Shirley Avenue, Gomersal, BD19 4NA. The site is bounded by residential housing, and the site entrance is located to the northwest on Shirley Avenue.

The approximate site extent and the development boundary are shown in Figure 2-1.

Figure 2-1 Site location plan showing approximate development boundary

2.2 Current Usage

As outlined in the diagram above, the site is occupied by the existing Gomersal St Mary's primary school.

2.3 Topography and Levels

The existing site generally falls from north to south with a change in elevation of approximately 3.12m. The high point (circa 151.69m AOD) is situated in the northwest corner of the site at the entrance, and the low point (circa 148.57m AOD) is in the southeast corner of the site, along the boundary.

A topographical survey is included in **Appendix A**.

2.4 Watercourses and Water Features

The nearest watercourse is Church Beck, which is located approximately 500m east of the site boundary. For additional information regarding statutory water courses in the locality.

2.5 Existing Private Drainage

The site comprises of existing private foul water and surface water drainage systems serving the existing school, Children's centre, temporary classrooms and grounds, confirmed by the utility mapping survey and CCTV drainage survey.

The utility mapping and CCTV surveys are contained within **Appendix B.**

2.6 Existing Public Sewers

There are Yorkshire Water owned public sewers traversing across the site boundary which currently serve the existing school and convey third party flows. The existing public sewers located on site are detailed below:

- An existing Yorkshire Water storage asset and associated flow control device is located in the southwest corner of the site comprising 5no. pipes.
- A 300mm diameter Surface Water Public Sewer enters the site from the eastern boundary, traversing across soft landscaping areas and conveys flows to the Yorkshire Water owned storage asset
- A 300mm diameter Surface Water Public Sewer enters the site from Shirley Avenue, traversing across the existing access road and car park and conveys flows to the Yorkshire Water owned storage asset
- A 225mm diameter Surface Water Public Sewer comprises the flow control outlet and discharges off site in the southwest corner
- A 150mm diameter Foul Water Public Sewer enters the site from Shirley Avenue discharges via an existing outfall off site in the southwest corner
- A 150mm diameter Foul Water Public Sewer enters the site from the eastern boundary and discharges via an existing outfall off site in the southwest corner

A Yorkshire Water Asset Map is contained within **Appendix C.**

3.0 Development Proposals

3.1 Overview

The development proposal is to construct the new school as a direct replacement for the existing school and 3 associated buildings that form the Gomersal school. A new car parking area with disabled bays and EV charging will be constructed for the staff to replace the existing carpark. In addition, a non-permeable MUGA will be constructed along with a positively drainage sports pitch.

During Phase 1 of the works, the single-storey modular construction used as a nursery with an area of 131m2 located to the northeast will be demolished and replaced with a temporary porter cabin north of the existing portable cabin located to the south west and the existing main school block to allow for the construction work of the proposed building during phase 2.

Phase 2 will see the proposed school teaching block, surface water attenuation and the Section 185 constructed.

During phase 3 the existing main school teaching block, relocated temporary nursery, the single-storey modular construction classroom with an area of 158m2 modular building rented from Portakabin by the Local Authority located to the south and the classroom single-storey modular construction owned by Kirklees Council with an area of 154m2 located to the west will be demolished.

Phase 4 and 5 the final externals can be constructed. Upon completion, the site will consist of the existing children centre, new school block, MUGA, sports pitch and a car park for staff use.

4.0 Climate Change

On the basis that the new school will be designed for a 75-year lifecycle, the impacts of climate change on the assessed flood risk must be considered. The site falls within the Aire and Calder Management Catchment, as per the below Figure 5-1.

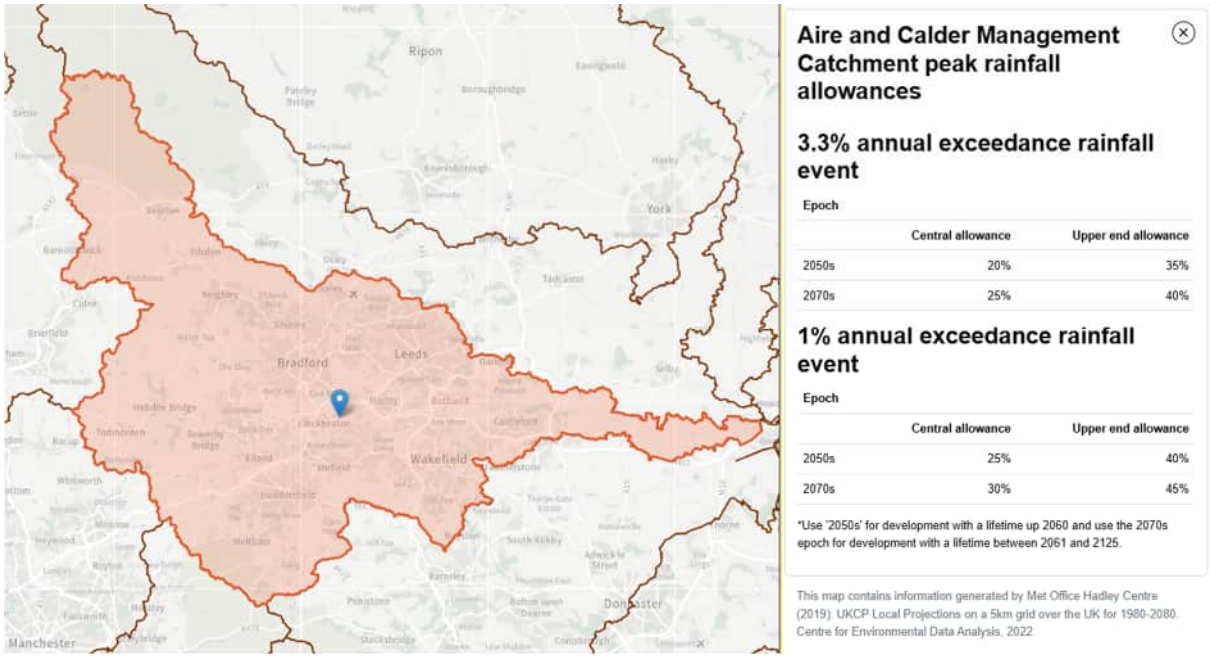


Figure 4-1 Environment Agency Climate Change Allowance Map

The above figure depicts the vicinity of the site and illustrates that for 1% + Climate Change, the upper allowance value to be taken into consideration is as follows: 45%.

5.0 Surface Water Management

5.1 Existing Drainage

The existing school, Children's centre, and temporary classrooms are currently drained by existing private foul and surface water networks.

There is an existing private network which serves the children's centre in the north of the site that is proposed to be Diverted. Existing drainage will have to be maintained during the construction, the proposed diversion it to take placed once the existing school has been demolished.

Refer to **Appendix I** for Sewer Abandonment Plan.

The existing site discharge to public sewers located within the site boundary at unrestricted rate. There are areas of existing soft landscaping which appear to discharge via infiltration. However, these areas have been excluded from this assessment. The majority of the outfalls appear to drain unrestricted into Yorkshire Water's surface water and foul water sewers.

Refer to **Appendix B** for the Utility and CCTV Survey

A review of the catchment areas for each network has been conducted, and a summary of each outfall's coverage, and associated 1-in-1 year discharge rate is provided below.

Table 5-1: Assessment of SuDS features

Outfall	Drained Area (ha.)	Outfall Connection	1-in-1 year discharge rate*
Site Outfall	0.349	SW8	48.86l/s

*Note: the 1-in-1 year discharge rate has been assessed at 140l/s/ha of positively drained area, which is equivalent to 50mm/hr rainfall intensity (1 in 1 year). The existing 300mm diameter pipe has sufficient capacity to accommodate these flows. The review has been undertaken using the topographical survey, CCTV drainage and GPR utility mapping survey contained within **Appendix A and B** respectively.

A copy of the existing catchment area review is contained within **Appendix D.**

The relationship the proposals have with the existing catchment areas is described below in Section 5.2.

5.2 Drainage Proposals & Discharge

The existing positively drained impermeable area of the site has been measured as approximately 0.363ha.

There is an existing Children's Centre to be retained at the north of the site. This area of the site currently discharges at unrestricted rate. There are no proposed works to this block therefore the existing discharge rate and connections will be retained. This area is noted as Catchment 1 on Existing Catchment Plan in **Appendix D**.

The remainder of the existing site hardstanding is approximately 0.363Ha in area.

In order to calculate the proposed development discharge rate, we have reviewed the positively drained areas to determine an allowable discharge rate. As the site is currently drained, we have used the brownfield runoff rate by taking the positively drained area and calculating the existing runoff using 140l/s/ha with a 30% betterment on existing flow rate (i.e. capped at 70% of the existing discharge).

The site will aim to achieve a total allowable discharge rate of **34.2 l/s.**

A copy of the proposed catchment areas drawing is contained within **Appendix E.**

The below table shows the relationship between the existing runoff rate and the proposed discharge rate, at a 30% betterment in accordance with Yorkshire Water requirements.

Table 5-2: Assessment of SuDS features

Storm event	Brownfield runoff rate
Existing Discharge (140 l/s/Ha))	48.86 l/s
Proposed Discharge (Existing 30% betterment)	34.2 l/s

This allowable discharge rate shall be used to restrict flow up to the 100 year plus 45% climate change event.

We have not included the children's centre that is located to the north of the site. This is proposed to remain as existing and will discharge at unrestricted rate as per the existing scenario.

The existing catchment areas are contained within **Appendix D**

The proposed catchment areas are contained within **Appendix E**

5.3 NPPG SuDS Hierarchy

The National Planning Practice Guidance (NPPG) sets out the drainage hierarchy for all developments with the aim of any development to provide a system designed to the highest step first before continuing to the next lower step as required. The hierarchy, in order is to drain:

• Via infiltration (into the ground)

• To a surface water body

• To a surface water sewer or highway drainage system

• To a combined sewer.

Below, we explain how the hierarchical approach has been assessed in relation to the development

5.3.1 Infiltration (into the ground)

Infiltration testing has been in line with BRE 365 over three locations across the site, however two of these locations did not soak away during testing. The soak away testing attained an infiltration rate of $1.15 \text{ x } 10^{-5}$ m/s which suggests the site could potentially discharge via infiltration.

However, due to the other two infiltration tests failing and that the ground investigation has assessed the site as being underlain by clay at shallow depth and coal measures at depth. Infiltration is unlikely to be viable due to the presence of clay as it is a cohesive soil which will typically prevent percolation to the suitable strata. Additionally, the coal measures are to be grouted. Therefore, this method of surface water disposal has been assessed as unsuitable.

5.3.2 To a surface water body

The closest watercourse to the site is Church Beck, which is approximately 500m to the east of the boundary. Therefore, there are no available watercourses within a reasonable vicinity of the site, without significant crossing of 3rd party land. This method of surface water disposal has been assessed as unsuitable.

5.3.3 To a surface water sewer or highway Drain

The existing surface water strategy drains to a surface water sewer within the vicinity of the site before discharging into a surface water sewer owned by Yorkshire Water. Therefore, this discharge to the surface water public sewer is considered the viable option for discharge.

5.3.4 To a Combined Sewer

There are no known existing combined water sewer systems currently in the vicinity of the site. This method of surface water disposal has been assessed as unsuitable.

5.4 Sustainable Drainage Systems

The proposed drainage networks have been modelled to ensure no surcharging in the 1 in 2 year rainfall event (albeit, minor surcharge at the proposed vortex flow control), in the 1 in 30 year storm event and no flooding within the 1 in 100 year storm event + 45% allowance for climate change.

The network is modelled using FE data, using a volumetric runoff coefficient (CV) of 1 for summer and 1 for winter, as per best practice guidance.

The flow restriction is proposed to be achieved using vortex flow control device, and the associated surface water storage is to be accommodated in a below ground geo-cellular tank.

The volume of below ground storage required to balance the surface water run-off from the proposed impermeable area with a discharge rate as stated is approximately 217.4m^3.

Permeable paving has been proposed for external car parking areas to provide treatment prior to discharge off site. Catchpit manholes have been proposed at rainwater pipe outlet locations and upstream of the attenuation tank to ensure silts are captured prior to entering the attenuation tank to prevent blockage and loss of storage volume.

The relevant approvals from Yorkshire Water are relation to the indirect connections to the public sewers will be required by the contractor before making the connection (i.e. indirect S106).

SuDS features are proposed (discussed in the following section) and will be used at, and near to, ground level to promote natural drainage characteristics. SuDS features will offer additional benefits of capturing pollutants, improving water quality and providing good amenity value.

The full detailed drainage proposals are contained within **Appendix F**.

A copy of the Causeway Flow drainage network modelling is contained within **Appendix G.**

5.5 Source Control

This is further subdivided into the four pillars of SuDS:

- Reduce flood risk through reducing the quantity of disposed water.
- Improve the quality of disposed water to improve watercourse, waterbody, and groundwater quality.
- Provide increased biodiversity benefits.
- Provide amenity benefits.

Source control (the control of surface water as close to the source as possible) is also encouraged to avoid reliance on a single SuDS feature, to slow the flow.

Site control (the control of surface water at the interface between a site and a receptor) is required for final discharges. Traditionally, these features tended to be large and heavily engineered, however a shift towards SuDS will almost always reduce the size, complexity, and costs of end of pipe systems.

A SuDS management train should seek to adhere to the four pillars of SuDS using source control features prior to final flow restriction at site control features.

Source control features have been assessed specifically for this Development and are presented in Table 7-5.

Table 7-5: Assessment of SuDS features

Feature	Included	Inclusion in design scheme
Blue/green roofs	✓	Green roofs have been proposed on the lower roof but have not been included on the higher hall roof. This is due to the weight and span ability of the roof structure.
Bioretention rain gardens	✓	An area for a bioretention/rain garden has been allowed for within the carpark area. Rainwater downpipes are proposed to be siphonic and will discharge at too high a rate to be included within a rain garden build up.
Tree pits	✗	As above for rain gardens.
Filter strips	✗	There are no external catchments or available external areas for the installation of filter strips.
Filter drains	✓	Filter drains have been included along the Northern and Eastern sides of the building which will treat and convey surface water runoff away from adjacent areas. A filter drains is proposed at the base of the existing slope in the South of the site to protect runoff to surrounding residents.
Swales	✗	There are no external catchments or available external areas for the installation of filter drains.
Permeable pavement	✓	Permeable paving is proposed to be installed in external car parking areas to provide treatment prior to off-site discharge.
Basin/pond	✗	Basins and ponds cannot be accommodated due to spatial constraints.
Attenuation storage tanks	✓	Attenuation storage tanks will be required to provide the attenuation requirement resulting from restricting the discharge rate.

5.6 Surface Water Quality

The water quality treatment train has been determined based on CIRIA 753 The SuDS Manual. The appraisal of the potential development characteristics and relevant SuDS components is presented below, demonstrating that the relevant indices can be met through the use of the SuDS Management Train.

Minimum water quality management requirements for discharges to receiving surface waters and groundwater (The SuDS Manual, 2015, Table 4.3)

Land use	Pollution hazard level	Requirement for discharge to surface waters and groundwater
Other roofs	Low	Simple index approach
Non-residential car parking	Low	Simple index approach

Steps in the simple index approach (The SuDS Manual, 2015, Box 26.2):

1. Allocate suitable pollution hazard indices for the proposed land use.
2. Select SuDS with a total pollution mitigation index that equals or exceeds the pollution hazard index.
3. Where the discharge is to protected surface waters or groundwater, consider the need for a more precautionary approach.

Where the mitigation index of an individual component is insufficient, two components (or more) in series will be required:

Total SuDs mitigation index = mitigation index 1 + 0.5 * mitigation index 2 etc.

A factor of 0.5 is used to account for the reduced performance of secondary or tertiary components where the discharge is of already reduced inflow concentrations to protected waters.

Pollution hazard indices for different land use classifications (The SuDS Manual, 2015, Table 26.3)

Land use	Pollution hazard level	Total suspended solids TSS	Metals	Hydrocarbons
Other roofs	Low	0.3	0.2	0.05
Non-residential car parking	Low	0.5	0.4	0.4

Indicative SuDS mitigation indices for discharges to surface water (SuDS Manual, 2015, Table 26.4)

Type of SuDS component	TSS	Metals	Hydrocarbons
SuDS management train would direct all roof water runoff through SuDS features or catchpits to remove gross solids and sediments	N/A	N/A	N/A
Permeable pavement	0.7	0.6	0.7

The above demonstrates that there is sufficient scope to provide the required mitigation against potential pollution.

6.0 Summary

The site currently includes separate surface water and foul water drainage networks that discharge into separate Yorkshire Water sewers. The proposed drainage system is designed to accommodate a 1-in-100-year storm event, with an added 45% allowance for climate change, ensuring a high level of resilience against extreme weather events.

The drainage strategy employs a sustainable approach, integrating features to control peak flow rates, manage runoff, and improve water quality. By managing water close to the source and slowing its movement across the site, the strategy aims to reduce pressure on the downstream drainage network. On-site storage will be provided via permeable paving and a geocellular attenuation tank to provide storage during heavy rainfall events. The above flood mitigation recommendations and surface water drainage strategy meet requirements and create a sustainable and robust drainage solution.

7.0 Appendices

Appendix A – Topography

Appendix B – Utility Survey & CCTV

Appendix C – Yorkshire Water Records

Appendix D – Existing Catchment

Appendix E – Proposed Catchment

Appendix F – Drainage Layout

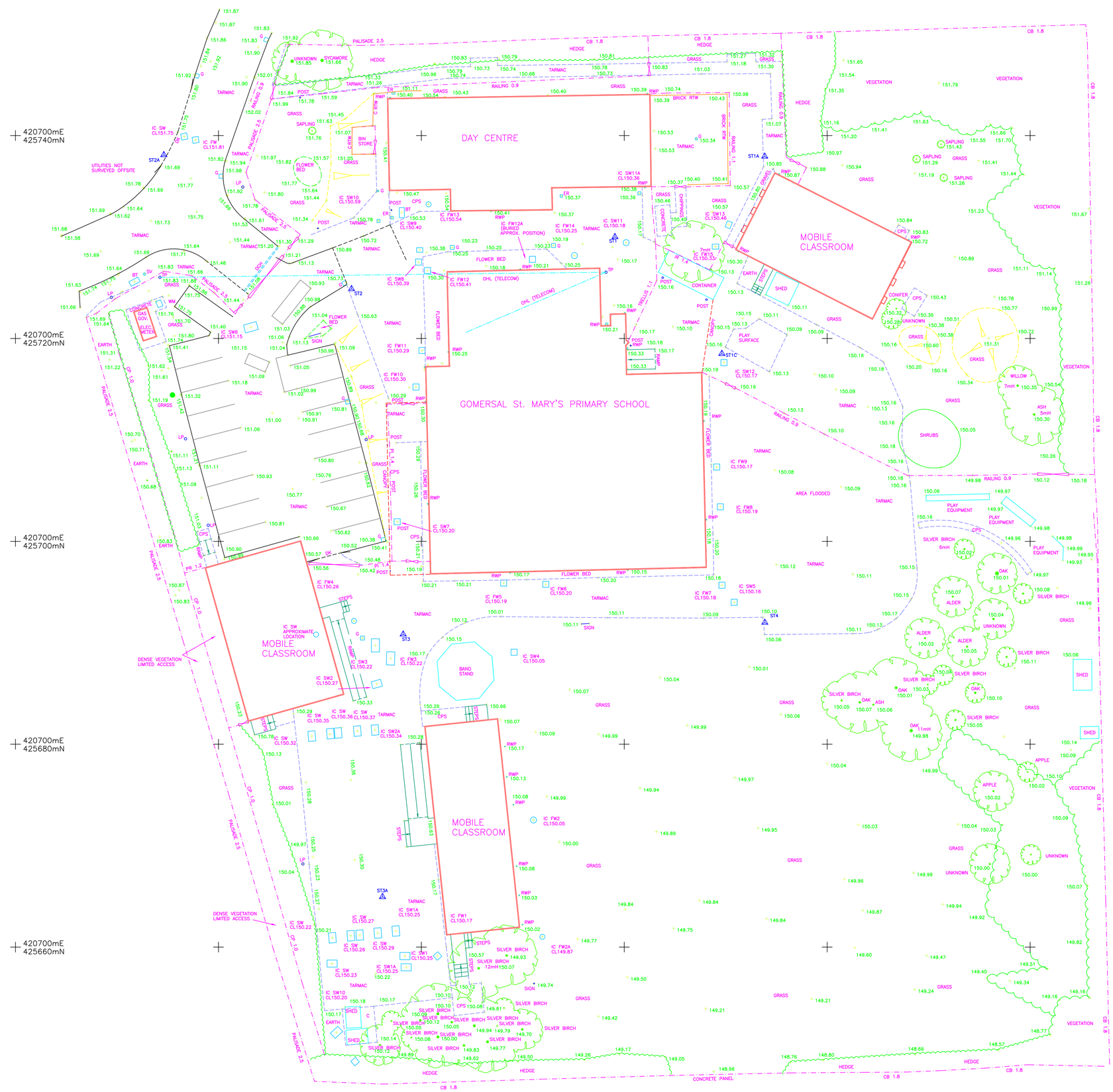
Appendix G - Flow Calculation

Appendix H - SuDS Operations and Maintenance Regime

Appendix I - Existing Drainage Abandonment

Appendix A – Topography

Topographic detail only, please refer to utility sheets for results of buried utility survey.



Original Drawing Size: A1

NOTES:-

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LEGEND

Features:

AB	Air Brick	PP	Power Pole	BW	Barbed Wire
ACU	Air Conditioning Unit	RAD	Radiator	BWW	Brick Wall
AV	Air Valve	RE	Rodding Eye	CB	Close Boarded
BO	Bollard	RNP	Road Name Plate	CH	Chainlink
BH	Borehole	RS	Road Sign	CI	Corrugated Iron
BP	Boundary Post	RSD	Roller Shutter Door	CP	Chestnut Paling
BS	Bus Stop	RWP	Rain Water Pipe	HM	Hit and Miss
BT	British Telecom	SD	Service Duct	IR	Iron Railing
CL	Cover Level	SV	Stop Valve	IW	Interwoven
COL	Column	TCB	Telephone Call Box	LL	Larch Lap
CTV	Cable TV Cover	THL	Threshold Level	PAL	Palisade
DCH	Drainage Channel	TP	Telegraph Pole	PI	Picket
DF	Drinking Fountain	TS	Traffic Signal	PR	Post & Rail
DIS	Disused	TW	Top of Wall	PW	Post & Wire
DK	Drop Kerb	UB	Universal Beam	TKR	Timber Knee Rail
DPC	Damp proof Course	UNK	Unknown	RTW	Retaining Wall
EIC	Electricity IC	UR	Urinal	WMF	Wire Mesh Fence
EJ	Expansion Joint	UTL	Unable To Lift		
ER	Earth Rod	V	Vent		
FB	Flower Bed	VP	Vent Pipe		
FH	Fire Hydrant	WM	Water Meter		
FHR	Fire Hose Reel	WO	Wash Out		
FS	Flagstaff	WPI	Waste Pipe		
GV	Gas Valve	VSB	Vehicle Safety Barrier		
G	Gully				
HR	Hand Rail				
IC	Inspection Cover	D	Door		
IL	Invert Level	EL	Eave Level		
JBX	Junction Box	FFL	Floor Level		
KO	Kerb Outlet	FRL	Flat Roof Level		
LB	Letter Box	HL	Head Level		
LBN	Litter Bin	PPL	Parapet Level		
LLP	Low Level LP	RL	Ridge Level		
LP	Lamp Post	SL	Sill Level		
MP	Marker Post	SP	Springer of Arch		
OHL	Overhead Line	TA	Top of Arch		
OP	Overflow Pipe	W	Window		
PM	Parking Meter	B2/36	Ceiling/Beam Soffit		

Boundary Types:

BW	Barbed Wire
BWW	Brick Wall
CB	Close Boarded
CH	Chainlink
CI	Corrugated Iron
CP	Chestnut Paling
HM	Hit and Miss
IR	Iron Railing
IW	Interwoven
LL	Larch Lap
PAL	Palisade
PI	Picket
PR	Post & Rail
PW	Post & Wire
TKR	Timber Knee Rail
RTW	Retaining Wall
WMF	Wire Mesh Fence

Surfaces & Finishes:

B	Brickwork
BB	Breeze Block
C	Concrete
CLT	Ceiling Tiles
CP	Carpet
CPS	Concrete Paving Slabs
CPT	Carpet Tiles
CR	Concrete Render
CT	Ceramic Tiles
FT	Floor Tiles
HBD	Hardboard
L	Linoleum
P	Plaster
PAV	Brick Paviors
S	Steel work
T	Terrazo
TSP	Textured Safety Paving
VT	Vinyl Tiles

Building Level Details:

D	Door
EL	Eave Level
FFL	Floor Level
FRL	Flat Roof Level
HL	Head Level
PPL	Parapet Level
RL	Ridge Level
SL	Sill Level
SP	Springer of Arch
TA	Top of Arch
W	Window

Building
Overhead Building Detail
Wall
Tree
Kerb/Drop Kerb
Survey Station
Fence
Gate
Painted Road Markings
Edge of Vegetation
Banks (Top / Bottom)

Utilities

C(B*) — CATV Cables	CCTV(B*) — CCTV Cables
E(B*) — Electricity Cables	F(O/B*) — Fibre Optic
FL(B*) — Fuel Pipes	FW(B*) — Foul Water Drain
G(B*) — Gas Pipes	HG(B*) — Heating duct
SD(B*) — Service ducts	SW(B*) — Storm water drain
TC(B*) — Traffic Control	T(B*) — Telecom cables
GPR(B*) — Unidentified GPR	EML(B*) — Unidentified EML
W(B*) — Water pipes	UNK(B*) — Unidentified Trace
Overhead Lines	EOT End Of Trace
TFR Taken From Records	UTT Unable To Trace
	NPV No Pipes Visible
Extent of utility survey	150ø Pipe Diameter/Flow

Control: All levels and co-ordinates are related to the datums described.

The horizontal control of this survey is based on Ordnance Survey National Grid as translated from GPS coordinates using the OSTN15 transformation supplied by the OS. We have applied a reverse scale factor to maintain true ground distances, based on station ST2. The vertical control of this survey is based on OS datum as translated from GPS coordinates using the OSGM15 transformation as supplied by the OS.

Please note revision only the CCTV drainage survey has been re surveyed the topographic & utilies surveys have not been upated.

Station Schedule

Station	Easting	Northing	Level	Type
1	420759.079	425730.015	150.216	Hilti Nail
1A	420773.844	425737.944	150.882	Hilti Nail
1C	420769.616	425718.500	150.176	Hilti Nail
2	420733.114	425724.887	150.732	Hilti Nail
2A	420714.617	425738.091	151.748	Hilti Nail
3	420738.207	425690.837	150.207	Hilti Nail
3A	420736.173	425664.950	150.288	Hilti Nail
4	420773.854	425691.997	150.095	Hilti Nail

Rev	Job No	Date	Revision Detail	Surveyor	Check

CLIENT

Key Property Solutions Ltd
KPS House
Lumley Court
Chester Le Street
DH2 1AN

PROJECT

CCTV Survey of Drainage
Gomersal St Mary's Primary School
Shirley Avenue
Gomersal
Cleckheaton, BD19 4NA

Job No.	Surveyor	Checked	Date	Scale
22878	DM	AR	Oct. 2025	1:200

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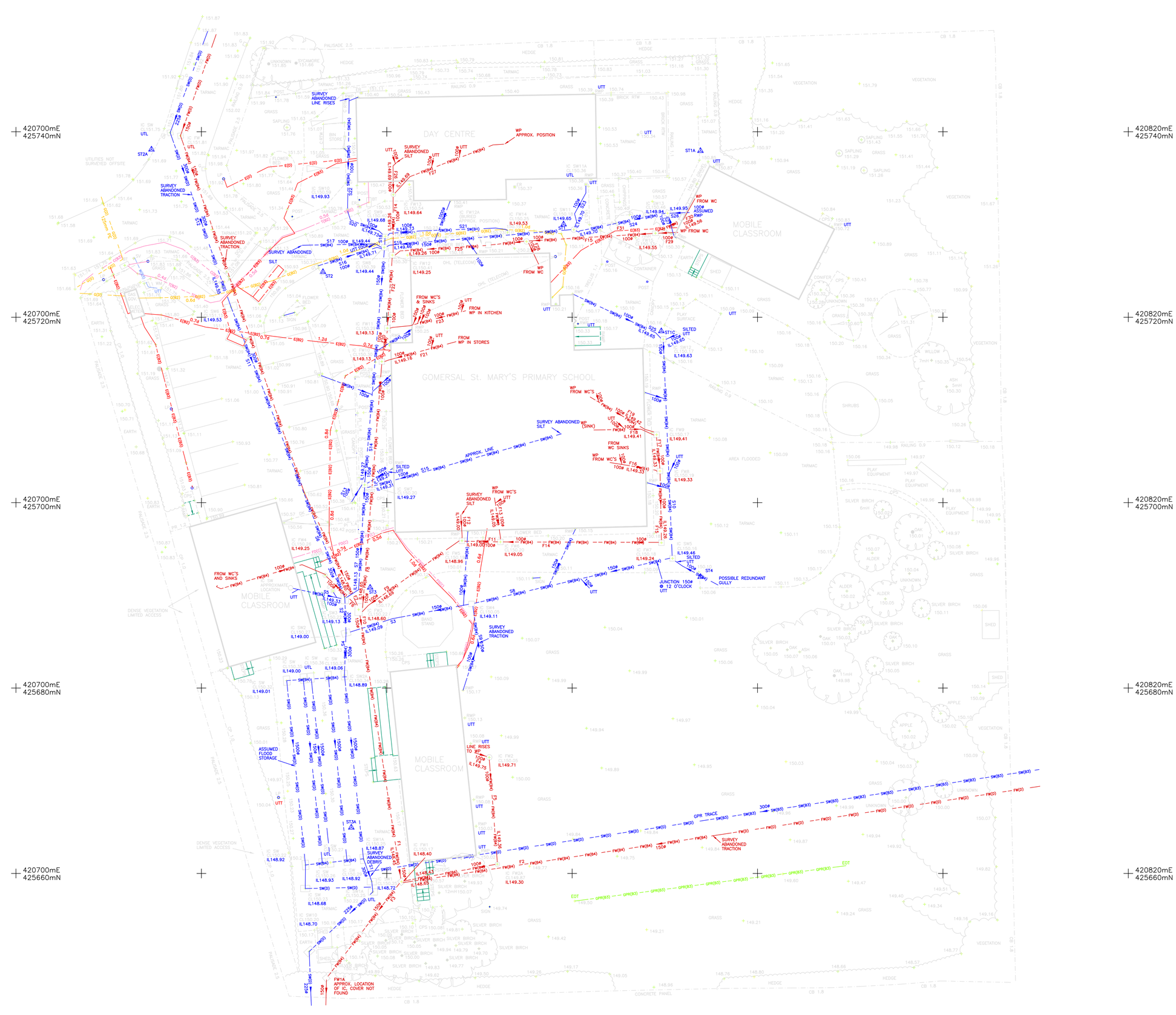

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AB	Air Brick	PP	Power Pole	BW	Barbed Wire
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BH	Borehole	RS	Road Sign	CI	Corrugated Iron
BP	Boundary Post	RSD	Roller Shutter Door	CP	Chestnut Paling
BS	Bus Stop	RWP	Rain Water Pipe	HM	Hit and Miss
BT	British Telecom	SD	Service Duct	IR	Iron Railing
CL	Cover Level	SV	Stop Valve	IW	Interwoven
COL	Column	TCB	Telephone Call Box	LL	Larch Lap
CTV	Cable TV Cover	THL	Threshold Level	PAL	Palisade
DCH	Drainage Channel	TP	Telegraph Pole	PI	Picket
DF	Drinking Fountain	TS	Traffic Signal	PR	Post & Rail
DIS	Disused	TW	Top of Wall	PW	Post & Wire
DK	Drop Kerb	UB	Universal Beam	TKR	Timber Knee Rail
DPC	Damp proof Course	UNK	Unknown	RTW	Retaining Wall
EC	Electricity IC	UR	Urinal	WMF	Wire Mesh Fence
EJ	Expansion Joint	UTL	Unable To Lift		
ER	Earth Rod	V	Vent		
FB	Flower Bed	VP	Vent Pipe		
FH	Fire Hydrant	WM	Water Meter		
FHR	Fire Hose Reel	WO	Wash Out		
FS	Flagstaff	WPI	Waste Pipe		
GV	Gas Valve	VSB	Vehicle Safety Barrier		
G	Gully				
HR	Hand Rail				
IC	Inspection Cover				
IL	Invert Level				
JBX	Junction Box				
KO	Kerb Outlet				
LB	Letter Box				
LBN	Litter Bin				
LLP	Low Level LP				
LP	Lamp Post				
MP	Marker Post				
OHL	Overhead Line				
OP	Overflow Pipe				
PM	Parking Meter				

Boundary Types:

Surfaces & Finishes:

B	Brickwork
BB	Breeze Block
C	Concrete
CLT	Ceiling Tiles
CP	Carpet
CPS	Concrete Paving Slabs
CPT	Carpet Tiles
CR	Concrete Render
CT	Ceramic Tiles
FT	Floor Tiles
HBD	Hardboard
L	Linoleum
P	Plaster
PAV	Brick Paviors
S	Steel work
T	Tarmac
TSP	Textured Safety Paving
VT	Vinyl Tiles

Building
Overhead Building Detail
Wall
Tree
Kerb/Drop Kerb
Survey Station
Fence
Gate
Painted Road Markings
Edge of Vegetation
Banks (Top / Bottom)

Utilities

C(B*) – CATV Cables	CCTV(B*) – CCTV Cables
E(B*) – Electricity Cables	FO(B*) – Fibre Optic
FL(B*) – Fuel Pipes	FW(B*) – Foul Water Drain
G(B*) – Gas Pipes	HG(B*) – Heating duct
SD(B*) – Service ducts	SW(B*) – Storm water drain
TC(B*) – Traffic Control	T(B*) – Telecom cables
GPR(B*) – Unidentified GPR	UM(B*) – Unidentified EML
W(B*) – Water pipes	UN(B*) – Unidentified Trace
Overhead Lines	EOT End Of Trace
TFR Taken From Records	UTT Unable To Trace
	NPV No Pipes Visible
Extent of utility survey	150ø Pipe Diameter/Flow

Control: All levels and co-ordinates are related to the datums described.

The horizontal control of this survey is based on Ordnance Survey National Grid as translated from GPS coordinates using the OSTN15 transformation supplied by the OS. We have applied a reverse scale factor to maintain true ground distances, based on station ST2. The vertical control of this survey is based on OS datum as translated from GPS coordinates using the OSGM15 transformation as supplied by the OS.

This survey has been carried out to PAS 128 Detection Method M2: EML search transects at 5m intervals and 2m for GPR.

Utility Depths:–
Depths obtained by EML are to the centre of the utility
Depths obtained by GPR are to the top of the utility
All depths are shown in metres in the format 0.7d

Utility Confidence Levels:–
(A) Horizontal and vertical position verified visually
(Accuracy: Horizontal (±25mm) Vertical(±50mm)
(B1) Horizontal and vertical position detected by multiple methods
(Estimated Accuracy: ±150mm OR ±15% of detected depth)
(B2) Horizontal and vertical position detected by a single method
(Estimated Accuracy: ±250mm OR ±40% of detected depth)
(B3) Horizontal position detected by a single method
(Estimated Accuracy: ±500mm in the Horizontal – Depth is undefined)
(B4) A utility segment which is suspected to exist but has not been detected and is therefore shown as an assumed route
(C) Route transcribed from utility asset plans and correlated to visual indicators and surface features (accuracy undefined)
(D) Route transcribed from utility asset plans (accuracy undefined)

Please note revision only the CCTV drainage survey has been re surveyed the topographic & utilies surveys have not been upated.

Rev	Job No	Date	Revision Detail	Surveyor	Check

CLIENT

Key Property Solutions Ltd
KPS House
Lumley Court
Chester Le Street
DH2 1AN

PROJECT

CCTV Survey of Drainage
Gomersal St Mary's Primary School
Shirley Avenue
Gomersal
Cleckheaton, BD19 4NA

Job No.	Surveyor	Checked	Date	Scale
22878	DM	AR	Oct. 2025	1:200

EDI SURVEYS LTD
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Telephone | 01473 211222
Email | admin@edisurveys.co.uk
Our Services:– Topographic Surveys, Measured Building Surveys, GPS Surveying and Control, 3D Laser Scanning, UAV Surveys, Utility Surveying and CCTV Drainage Investigation.
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constructionline | THE SURVEY ASSOCIATION | ISO 9001 REGISTERED FIRM

DRAWING No. 22878/U/01–01 | REV. –

Appendix B – Utility Survey & CCTV

WinCan

Project

Project Name:	Gomersal St Mary's Primary School
Project Description:	CCTV Drainage Survey_Foul Water
Project Number:	22878
Project Status:	Complete
Project Date:	28/10/2025
Inspection Standard:	MSCC5 Sewers & Drainage GB (SRM5 Scoring)

WinCan

Table of Contents

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Gomersal St Mary's Primary School	22878	28/10/2025

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Section Item 3: FW1 > FW1A (FW1X) 9

Section Item 4: F4 > FW2 (F4X) 14

Section Item 5: FW2 > FW2A (FW2X) 16

Section Item 6: FW4 > FW3 (FW4X) 18

Section Item 7: F7 > FW3 (F7X) 21

Section Item 8: FW10 > FW3 (FW10X) 28

Section Item 9: FW5 > FW3 (FW5X) 37

Section Item 10: FW3 > FW1 (FW3Y) 42

Section Item 11: FW6 > FW5 (FW6X) 45

Section Item 12: F12 > FW5 (F12X) 47

Section Item 13: F17 > FW6 (F17X) 49

Section Item 14: FW7 > FW6 (FW7X) 51

Section Item 15: FW8 > FW7 (FW8X) 53

Section Item 16: F16 > FW8 (F16X) 55

Section Item 17: FW9 > FW8 (FW9X) 59

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Project Information

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

Project Notes

A CCTV drainage survey was carried out at Gomersal St Mary's Primary School, Shirley Avenue, Gomersal, Cleckheaton, BD19 4NA

Please see EDI drawing;

22878_Topographic & Services Survey_Final.

Foul Water.

Overview.

FW1 - upstream F2 survey abandoned at 33.60m traction.

FW3 - upstream F7 survey abandoned at 39.42m traction.

FW5 - upstream F12 survey abandoned at 2.50m silt.

FW13 - upstream F26 survey abandoned at 3.20m silt.

Comments & Conclusions.

For removal of silt, I recommend using a jet vac tanker where access allows, this can be carried out by EDI via quote request.

Thank you for using EDI Surveys Ltd.

WinCan

Scoring Summary

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
8	FW10X	3	Cracks, spiral from 9 o'clock to 12 o'clock
16	F16X	3	Cracks, spiral at joint from 7 o'clock to 11 o'clock
20	FW11X	4	Fracture, spiral from 10 o'clock to 8 o'clock

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
1	FW3X	3	Multiple defects
2	F2X	5	Other obstacles from 4 o'clock to 7 o'clock, 30% cross-sectional area loss
3	FW1X	3	Multiple defects
4	F4X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
5	FW2X	3	Settled deposits, fine, 20% cross-sectional area loss, finish
6	FW4X	3	Multiple defects
7	F7X	3	Multiple defects
8	FW10X	4	Multiple defects
9	FW5X	4	Multiple defects
10	FW3Y	3	Multiple defects
11	FW6X	4	Joint displaced, large
12	F12X	4	Joint displaced, large
13	F17X	3	Multiple defects
14	FW7X	4	Multiple defects
15	FW8X	3	Multiple defects
16	F16X	4	Joint displaced, large
17	FW9X	3	Multiple defects
18	F18X	3	Multiple defects
19	F19X	3	Multiple defects
20	FW11X	4	Joint displaced, large
21	F21X	3	Multiple defects
22	FW12X	4	Joint displaced, large
23	F23X	3	Multiple defects

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Scoring Summary

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

Section	PLR	Grade	Description
24	FW13X	4	Multiple defects
25	FW12AX	4	Joint displaced, large
26	F26X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
27	F27X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
28	F28X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
29	F29X	3	Multiple defects
30	F30X	4	Joint displaced, large
31	FW15X	3	Multiple defects

Abandoned Surveys

Section	PLR	Description
2	F2X	Survey abandoned
7	F7X	Survey abandoned
12	F12X	Survey abandoned
26	F26X	Survey abandoned

Information

These scoring summaries are based on the SRM grading from the WRc.

Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

FW1 Cover

FW1

FW2 Cover

FW2

FW2A Cover

FW2A

Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

FW3 Cover

FW3

FW4 Cover

FW4

FW5 Cover

FW5

Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

FW6 Cover

FW6

FW7 Cover

FW7

FW8 Cover

FW8

Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

FW9 Cover

FW9

FW10 Cover

FW10

FW11 Cover

FW11

Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

FW12 Cover

FW12

FW13 Cover

FW13

FW14 Cover

FW14

Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School	22878	28/10/2025

FW15 Cover

FW15

Section Inspection - 28/10/2025 - FW3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	28/10/25	10:56	Not Specified	No Rain Or Snow	No	FW3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

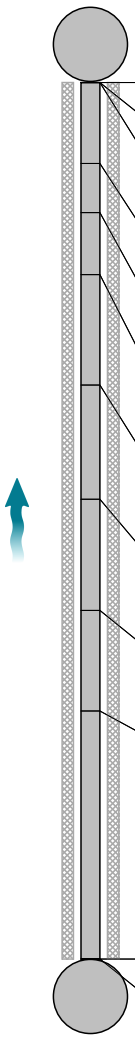
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW3
Road:	Shirley Avenue	**Inspected Length:**	26.90 m	**Upstream Pipe Depth:**	1.620 m
Location:	Property or buildings	**Total Length:**	26.90 m	**Downstream Node:**	FW1
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.720 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:232

Depth: 1.72 m
FW1



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW1	00:00:00	FW3X_f96d133b-4b66-4a8e-bb	
0.00		WL	Water level, 10% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
2.50		JDM	Joint displaced, medium	00:00:10	FW3X_a445b793-2a80-4e35-8	1 / 3
4.00		JDM	Joint displaced, medium	00:00:16	FW3X_e738eed4-f1b5-4782-b	1 / 3
5.90		JDM	Joint displaced, medium	00:00:16	FW3X_9551a688-1181-4b2f-90	1 / 3
9.30		JDM	Joint displaced, medium	00:00:36	FW3X_e09411e4-4c7b-4c1b-8	1 / 3
12.80		JDM	Joint displaced, medium	00:00:48	FW3X_242d2110-7232-4526-a	1 / 3
16.20		JDM	Joint displaced, medium	00:01:02	FW3X_d7fff3a7-2b1a-47aa-981	1 / 3
19.30		CL	Crack, longitudinal at 10 o'clock	00:01:15	FW3X_ee52754c-29d2-4ad9-8	2 / 2
26.90	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:03:44		3
26.90		OCF	Finish node, other special chamber, reference: FW3: To point surveyed from upstream	00:03:44	FW3X_48c65222-a3dc-4ca3-b	

FW3
Depth: 1.62 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**
7	10.0	0.6	16.0	2.0	8	4.0	2.5	67.0	3.0

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Section Pictures - 28/10/2025 - FW3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	FW3X		22878

FW3X_f96d133b-4b66-4a8e-bb0a-ab71a3787eff_20251105_131826_068.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW1

FW3X_a445b793-2a80-4e35-8496-ca9087429080_20251105_132059_614.jpg, 00:00:10, 2.50 m
Joint displaced, medium

FW3X_e738eed4-f1b5-4782-b250-e9f5282f7fa0_20251105_132143_702.jpg, 00:00:16, 4.00 m
Joint displaced, medium

FW3X_9551a688-1181-4b2f-90e4-8d48369dc648_20251105_132245_394.jpg, 00:00:16, 5.90 m
Joint displaced, medium

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Section Pictures - 28/10/2025 - FW3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	FW3X		22878

FW3X_e09411e4-4c7b-4c1b-85fa-4bc1ed0eae81_20251105_132408_611.jpg, 00:00:36, 9.30 m
Joint displaced, medium

FW3X_242d2110-7232-4526-a57d-6bedde13ea2d_20251105_132508_165.jpg, 00:00:48, 12.80 m
Joint displaced, medium

FW3X_d7fff3a7-2b1a-47aa-9810-a03255046e8f_20251105_132620_238.jpg, 00:01:02, 16.20 m
Joint displaced, medium

FW3X_ee52754c-29d2-4ad9-82b1-c68fedff838d_20251105_132852_886.jpg, 00:01:15, 19.30 m
Crack, longitudinal at 10 o'clock

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Section Pictures - 28/10/2025 - FW3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	FW3X		22878

FW3X_48c65222-a3dc-4ca3-bdb6-41314508d10e_20251105_133308_662.jpg, 00:03:44, 26.90 m
Finish node, other special chamber, reference: FW3, To point surveyed from upstream

Section Inspection - 28/10/2025 - F2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	28/10/25	11:02	Not Specified	No Rain Or Snow	No	F2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F2
Road:	Shirley Avenue	**Inspected Length:**	33.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	33.60 m	**Downstream Node:**	FW1
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.740 m

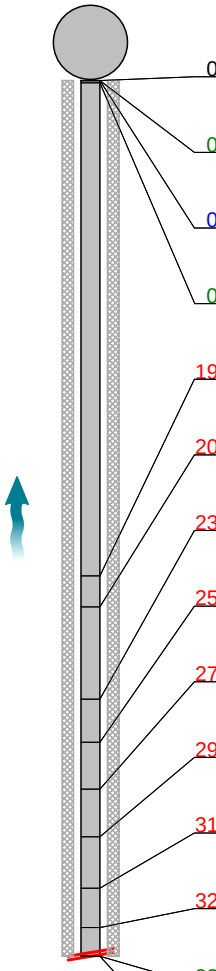
Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:290

Depth: 1.74 m

FW1



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW1	00:00:00	F1X_29c03f47-5be3-4816-8b6e	
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:01		
0.10		OBZ	Other obstacles from 4 o'clock to 7 o'clock, 30% cross-sectional area loss: Toilet Roll	00:00:02	F1X_4c7e71f5-719c-4dc9-94a1	5
19.00		JDM	Joint displaced, medium	00:01:12	F1X_c6f60755-7b2a-4aaa-9ca6	1 / 3
20.20		JDM	Joint displaced, medium	00:01:31	F1X_9a8f4df7-5336-4bc7-b7d3-f	1 / 3
23.75		JDM	Joint displaced, medium	00:01:45	F1X_7ef61e4e-ab48-4070-99f4-	1 / 3
25.40		JDM	Joint displaced, medium	00:01:51	F1X_14970dac-c4da-4082-b7a	1 / 3
27.20		JDM	Joint displaced, medium	00:01:58	F1X_2a07ccbe-25cb-454d-a96	1 / 3
29.00		JDM	Joint displaced, medium	00:02:05	F1X_18dca5ae-c488-4489-8fb3	1 / 3
31.00		JDM	Joint displaced, medium	00:02:21	F1X_d18718f8-3ad9-41a6-966c	1 / 3
32.50		JDM	Joint displaced, medium	00:02:45	F1X_d374c5be-b6c6-4f32-a187	1 / 3
33.60	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:03:35		3
33.60		SA	Survey abandoned: Traction	00:03:35	F1X_92810f1b-acac-4e67-a33a	

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**
8	1.0	0.2	8.0	1.0	10	12.0	2.8	94.0	5.0

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Section Pictures - 28/10/2025 - F2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	F2X		22878

F1X_29c03f47-5be3-4816-8b6e-67b3aa7c93f7_20251105_134808_147.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW1

F1X_4c7e71f5-719c-4dc9-94a1-7f3bba4236da_20251105_135027_113.jpg, 00:00:02, 0.10 m
Other obstacles from 4 o'clock to 7 o'clock, 30% cross-sectional area loss, Toilet Roll

F1X_c6f60755-7b2a-4aaa-9ca6-c47bde1e8880_20251105_140504_454.jpg, 00:01:12, 19.00 m
Joint displaced, medium

F1X_9a8f4df7-5336-4bc7-b7d3-fb74378dfffa_20251105_140809_548.jpg, 00:01:31, 20.20 m
Joint displaced, medium

WinCan

Section Pictures - 28/10/2025 - F2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	F2X		22878

F1X_7ef61e4e-ab48-4070-99f4-73e215dc79c3_20251105_141016_166.jpg, 00:01:45, 23.75 m
Joint displaced, medium

F1X_14970dac-c4da-4082-b7ad-68042f41e63c_20251105_141203_411.jpg, 00:01:51, 25.40 m
Joint displaced, medium

F1X_2a07ccbe-25cb-454d-a96b-777802066aa4_20251105_141332_621.jpg, 00:01:58, 27.20 m
Joint displaced, medium

F1X_18dca5ae-c488-4489-8fb3-59bc18f92f6b_20251105_141543_239.jpg, 00:02:05, 29.00 m
Joint displaced, medium

WinCan

Section Pictures - 28/10/2025 - F2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	F2X		22878

F1X_d18718f8-3ad9-41a6-966c-4f6e2f15b3b4_20251105_141719_174.jpg, 00:02:21, 31.00 m
Joint displaced, medium

F1X_d374c5be-b6c6-4f32-a187-84de2f0924b3_20251105_141840_879.jpg, 00:02:45, 32.50 m
Joint displaced, medium

F1X_92810f1b-acac-4e67-a33a-9fbc5cc1a1e4_20251105_142030_847.jpg, 00:03:35, 33.60 m
Survey abandoned, Traction

Section Inspection - 28/10/2025 - FW1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	28/10/25	11:09	Not Specified	No Rain Or Snow	No	FW1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Downstream	**Upstream Node:**	FW1
Road:	Shirley Avenue	**Inspected Length:**	12.80 m	**Upstream Pipe Depth:**	1.770 m
Location:	Property or buildings	**Total Length:**	12.80 m	**Downstream Node:**	FW1A
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

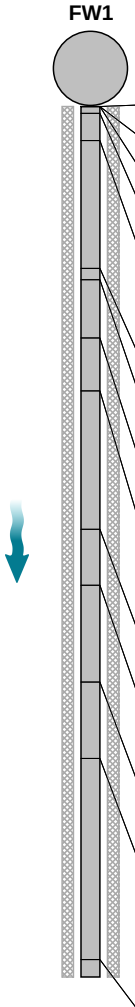
Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:109 **Position [m]** **Code** **Observation** **MPEG** **Photo** **Grade**

Depth: 1.77 m

FW1



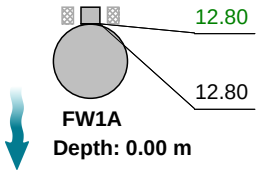
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW1	00:00:00	FW1X_2afb8f16-cea3-45c5-88	
0.00		WL	Water level, 10% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.10		JDM	Joint displaced, medium	00:00:00	FW1X_bb6485bd-548-4be5-9	1 / 3
0.50		JDM	Joint displaced, medium	00:00:03	FW1X_79f0f059-32e4-4794-9d	1 / 3
2.34		WL	Water level, 25% of the vertical dimension	00:00:09		
2.50		JDM	Joint displaced, medium	00:00:09	FW1X_64116e84-092f-40c5-82	1 / 3
3.34		WL	Water level, 10% of the vertical dimension	00:00:12		
4.10		JDM	Joint displaced, medium	00:00:14	FW1X_5b273742-cf5f-47da-95	1 / 3
6.10		JDM	Joint displaced, medium	00:00:19	FW1X_d7d02a65-f620-4ce9-b	1 / 3
6.90		WL	Water level, 25% of the vertical dimension	00:00:21		
8.30		WL	Water level, 10% of the vertical dimension	00:00:25		
9.40		JDM	Joint displaced, medium	00:00:29	FW1X_e22c0d4d-da6a-44d6-b	1 / 3
12.30		JDM	Joint displaced, medium	00:00:34	FW1X_16836d14-0b4f-4c06-ad	1 / 3

Section Inspection - 28/10/2025 - FW1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	28/10/25	11:09	Not Specified	No Rain Or Snow	No	FW1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:109



Position [m]		Code	Observation	MPEG	Photo	Grade
12.80	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:35		3
12.80		ICF	Finish node, inspection chamber, reference: F2	00:01:00	FW1X_0c 63f555-74 63-409d-9	

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
8	1.0	0.6	8.0	1.0	9	4.0	3.3	42.0	4.0

WinCan

Section Pictures - 28/10/2025 - FW1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	FW1X		22878

FW1X_2afb8f16-cea3-45c5-88e9-e817ba18081a_20251105_142446_326.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW1

FW1X_bb6485bd-548d-4be5-91c5-705dffaed8c2_20251105_142555_498.jpg, 00:00:00, 0.10 m
Joint displaced, medium

FW1X_79f0f059-32e4-4794-9d03-d2091c6cc376_20251105_142641_516.jpg, 00:00:03, 0.50 m
Joint displaced, medium

FW1X_64116e84-092f-40c5-82fa-50509ae0edac_20251105_142805_955.jpg, 00:00:09, 2.50 m
Joint displaced, medium

WinCan

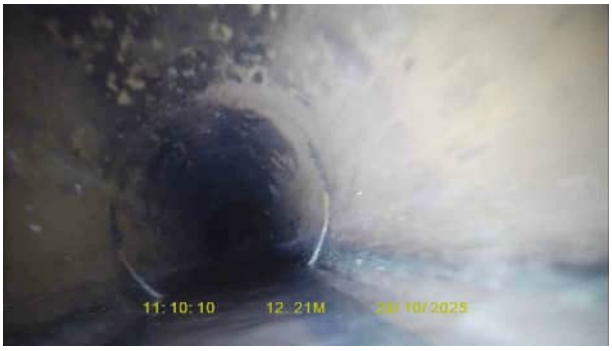
Section Pictures - 28/10/2025 - FW1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	FW1X		22878

FW1X_5b273742-cf5f-47da-959e-2f2496b86c59_20251105_142910_140.jpg, 00:00:14, 4.10 m
Joint displaced, medium

FW1X_d7d02a65-f620-4ce9-b720-8c0dc29dab83_20251105_142949_117.jpg, 00:00:19, 6.10 m
Joint displaced, medium

FW1X_e22c0d4d-da6a-44d6-b8d2-c4ba35c96a92_20251119_122751_755.jpg, 00:00:29, 9.40 m
Joint displaced, medium



FW1X_16836d14-0b4f-4c06-adfb-74700b265daa_20251105_143518_812.jpg, 00:00:34, 12.30 m
Joint displaced, medium

WinCan

Section Pictures - 28/10/2025 - FW1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	FW1X		22878

FW1X_0c63f555-7463-409d-97d5-ebeaff0d7ca4_20251119_122903_938.jpg, 00:01:00, 12.80 m
Finish node, inspection chamber, reference: F2

Section Inspection - 28/10/2025 - F4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	28/10/25	12:07	Not Specified	No Rain Or Snow	No	F4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

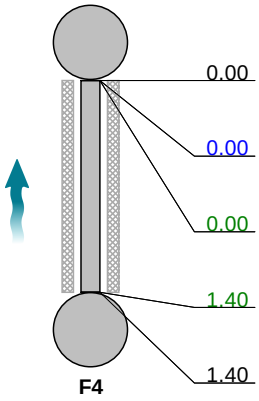
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F4
Road:	Shirley Avenue	**Inspected Length:**	1.40 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.40 m	**Downstream Node:**	FW2
Surface Type:	Grass	**Joint Length:**		**Downstream Pipe Depth:**	0.300 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.30 m
FW2



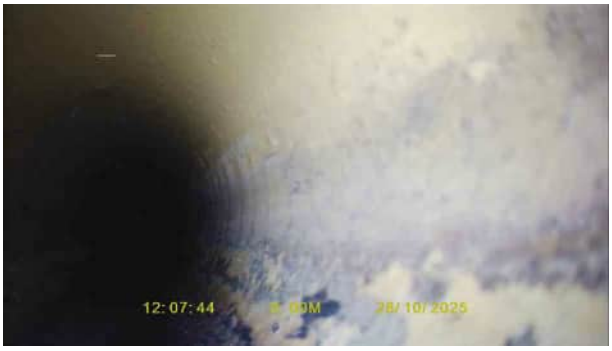
F4
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW2	00:00:00	F3X_a77c99f7-d7d7-4224-9ff5-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
1.40	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:14		3
1.40		OCF	Finish node, other special chamber, reference: F3: WP	00:00:14	F3X_aa5e5e11-ceea-4417-b38	

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	2.9	4.0	4.0

Section Pictures - 28/10/2025 - F4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	F4X		22878



F3X_a77c99f7-d7d7-4224-9ff5-5fea0e83c066_20251105_144334_804.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW2

F3X_aa5e5e11-ceea-4417-b385-c2c5321bf1f8_20251105_144706_463.jpg, 00:00:14, 1.40 m
Finish node, other special chamber, reference: F3, WP

Section Inspection - 28/10/2025 - FW2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	28/10/25	12:08	Not Specified	No Rain Or Snow	No	FW2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

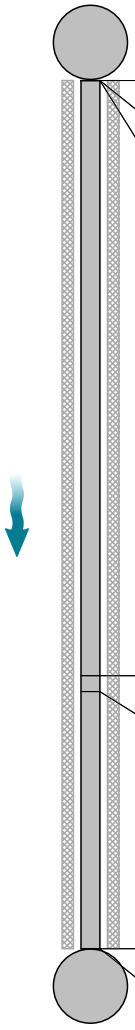
Town or Village:	Gomersal	**Inspection Direction:**	Downstream	**Upstream Node:**	FW2
Road:	Shirley Avenue	**Inspected Length:**	10.80 m	**Upstream Pipe Depth:**	0.340 m
Location:	Property or buildings	**Total Length:**	10.80 m	**Downstream Node:**	FW2A
Surface Type:	Grass	**Joint Length:**		**Downstream Pipe Depth:**	0.550 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:94

Depth: 0.34 m
FW2



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW2	00:00:00	FW2X_5325331a-964a-45fd-8d	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
7.40		WL	Water level, 20% of the vertical dimension	00:00:34		
7.60	C01	DES	Settled deposits, fine, 20% cross-sectional area loss, change	00:00:36		
10.80	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:01		3
10.80		ICF	Finish node, inspection chamber, reference: FW2A	00:01:01	FW2X_1a4f3e5c-de47-45b0-8	

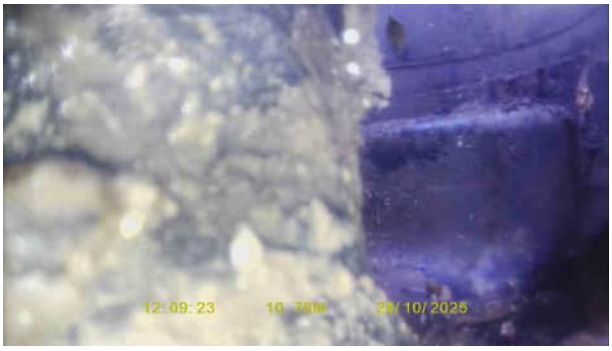
FW2A
Depth: 0.55 m

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	2.0	22.0	3.0

Section Pictures - 28/10/2025 - FW2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Downstream	FW2X		22878

FW2X_5325331a-964a-45fd-8d86-de063a378b84_20251105_150300_600.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW2



FW2X_1a4f3e5c-de47-45b0-8c68-0478ad1887be_20251105_152809_124.jpg, 00:01:01, 10.80 m
Finish node, inspection chamber, reference: FW2A

Section Inspection - 28/10/2025 - FW4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	28/10/25	13:16	Not Specified	No Rain Or Snow	No	FW4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

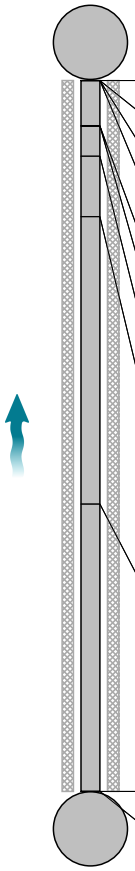
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW4
Road:	Shirley Avenue	**Inspected Length:**	4.70 m	**Upstream Pipe Depth:**	1.010 m
Location:	Property or buildings	**Total Length:**	4.70 m	**Downstream Node:**	FW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.610 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.61 m
FW3



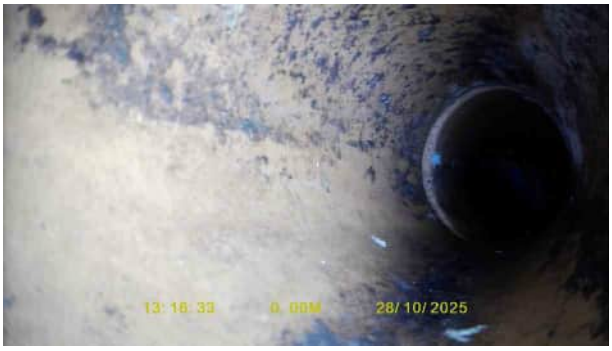
FW4
Depth: 1.01 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW3	00:00:00	FW4X_6a979b06-3db2-46b8-9	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.00		LR	Line deviates right	00:00:00		
0.30		JDM	Joint displaced, medium	00:00:01	FW4X_b0ed26bb-f7b6-410a-bf	1 / 3
0.30		LL	Line deviates left	00:00:02		
0.50		JDM	Joint displaced, medium	00:00:02	FW4X_77facc1b-5bb4-4911-94	1 / 3
0.90		JDM	Joint displaced, medium	00:00:04	FW4X_2ac60ace-1e68-4b42-8	1 / 3
2.80		LU	Line deviates up	00:00:11		
4.70	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:22		3
4.70		ICF	Finish node, inspection chamber, reference: FW4	00:00:22	FW4X_9141634b-48e9-408a-8	

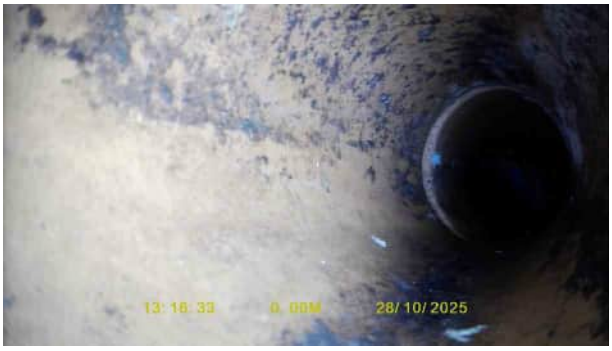
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
3	1.0	0.6	3.0	1.0	4	4.0	3.4	16.0	4.0

Section Pictures - 28/10/2025 - FW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	FW4X		22878



FW4X_6a979b06-3db2-46b8-920d-588961a563c6_20251111_143602_325.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW3



FW4X_b0ed26bb-f7b6-410a-bfa3-1cb3b7f78ce0_20251111_143723_272.jpg, 00:00:01, 0.30 m
Joint displaced, medium

FW4X_77facc1b-5bb4-4911-9460-b696df87e01f_20251111_144013_094.jpg, 00:00:02, 0.50 m
Joint displaced, medium

FW4X_2ac60ace-1e68-4b42-82f6-1e6de404bb26_20251111_144129_445.jpg, 00:00:04, 0.90 m
Joint displaced, medium

WinCan

Section Pictures - 28/10/2025 - FW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	FW4X		22878

FW4X_9141634b-48e9-408a-80ed-1dd6fbe69a03_20251111_144418_765.jpg, 00:00:22, 4.70 m
Finish node, inspection chamber, reference: FW4

Section Inspection - 28/10/2025 - F7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	28/10/25	13:18	Not Specified	No Rain Or Snow	No	F7X

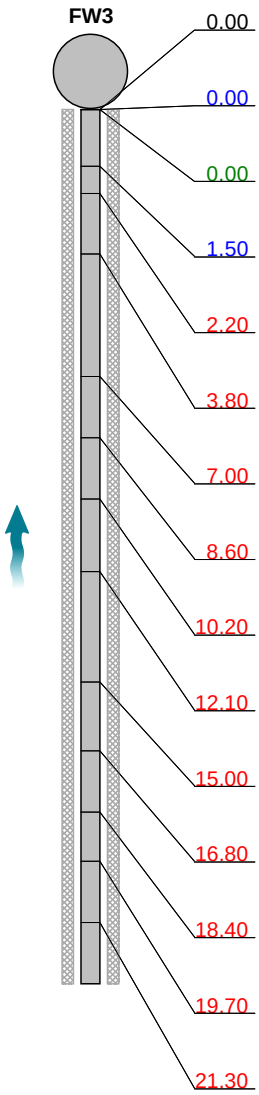
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F7
Road:	Shirley Avenue	**Inspected Length:**	39.42 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	39.42 m	**Downstream Node:**	FW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.620 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:198 **Depth: 1.62 m**

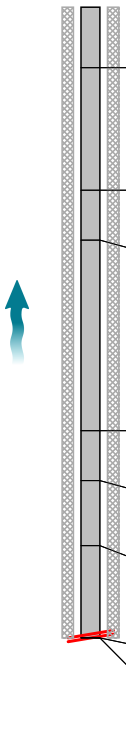


Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW3	00:00:00	F5X_fffa5f67-7aee-46c7-a92c-	
0.00		WL	Water level, 10% of the vertical dimension	00:00:01		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:01		
1.50		WL	Water level, 5% of the vertical dimension	00:00:06		
2.20		JDM	Joint displaced, medium	00:00:07	F5X_20481a2c-edda-4770-842	1 / 3
3.80		JDM	Joint displaced, medium	00:00:11	F5X_1ea38ad1-2927-441f-9033	1 / 3
7.00		JDM	Joint displaced, medium	00:00:18	F5X_7d85b6ee-c78c-444c-a18	1 / 3
8.60		JDM	Joint displaced, medium	00:00:22	F5X_25cf16af-42bc-4f76-8058-e	1 / 3
10.20		JDM	Joint displaced, medium	00:00:27	F5X_f2ad8170-38f7-4875-990a-	1 / 3
12.10		JDM	Joint displaced, medium	00:00:32	F5X_d233d06a-334f-462f-bd88-	1 / 3
15.00		JDM	Joint displaced, medium	00:00:40	F5X_1f40d20f-d2da-4390-b399-	1 / 3
16.80		JDM	Joint displaced, medium	00:00:45	F5X_186ab68e-9783-46da-b64	1 / 3
18.40		JDM	Joint displaced, medium	00:00:49	F5X_b261c99f-01b4-4737-b120	1 / 3
19.70		JDM	Joint displaced, medium	00:00:54	F5X_1dff66bd-032e-4a8e-bacd	1 / 3
21.30		JDM	Joint displaced, medium	00:00:58	F5X_d6a7aa87-dce6-45ac-972	1 / 3

Section Inspection - 28/10/2025 - F7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	28/10/25	13:18	Not Specified	No Rain Or Snow	No	F7X
Operator		**Vehicle**		**Camera**	**Preset Length**	**Legal Status**	**Alternative ID**
DM		AV73UEM		Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:198



Position [m]		Code	Observation	MPEG	Photo	Grade
24.50		JDM	Joint displaced, medium	00:01:07	F5X_5181 7b73-068f- 4963-a431	1 / 3
27.70		JDM	Joint displaced, medium	00:01:18	F5X_5fa9f b26-5a9e- 4af4-8b2d-	1 / 3
29.00		JDM	Joint displaced, medium	00:01:22	F5X_a9c4 2148-3f50- 4634-a154	1 / 3
34.00		JDM	Joint displaced, medium	00:01:40	F5X_0f671 1bb-da22- 4f6b-844e-	1 / 3
35.30		JDM	Joint displaced, medium	00:01:47	F5X_8bb5 44a3-cf0a- 48fa-a29e-	1 / 3
37.00		JDM	Joint displaced, medium	00:03:54	F5X_4f78a 5c3-e6c6- 4d3a-b391	1 / 3
39.42	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:04:07		3
39.42		SA	Survey abandoned: Traction	00:04:07	F5X_bf9c6 70c-df98-4 406-b0ae-	

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**
17	1.0	0.4	17.0	1.0	18	4.0	2.9	114.0	4.0

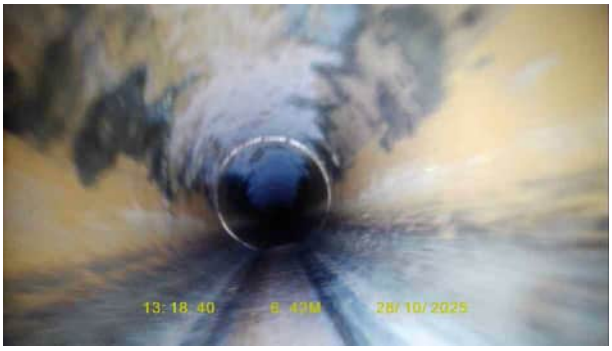
Section Pictures - 28/10/2025 - F7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	F7X		22878

F5X_fffa5f67-7aee-46c7-a92c-1afbedc19908_20251111_150932_875.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW3

F5X_20481a2c-edda-4770-8428-e4544c3a0b90_20251111_151230_068.jpg, 00:00:07, 2.20 m
Joint displaced, medium

F5X_1ea38ad1-2927-441f-9033-f555f4d9b313_20251111_151311_267.jpg, 00:00:11, 3.80 m
Joint displaced, medium

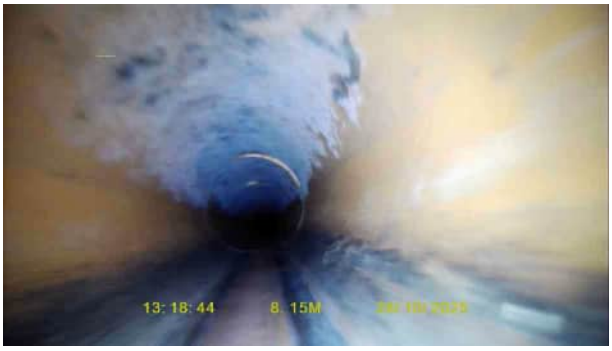


F5X_7d85b6ee-c78c-444c-a187-0e71105c7bbc_20251111_151402_932.jpg, 00:00:18, 7.00 m
Joint displaced, medium

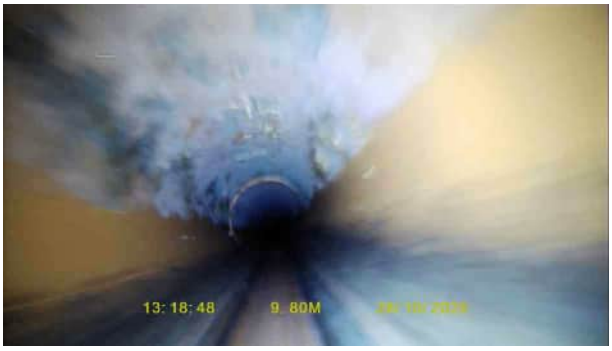
WinCan

Section Pictures - 28/10/2025 - F7X

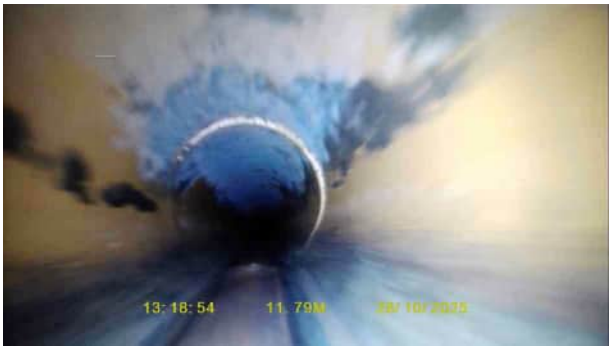
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	F7X		22878



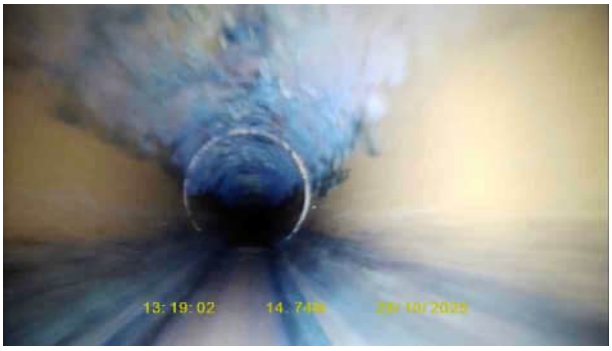
F5X_25cf16af-42bc-4f76-8058-eab6258bfd4a_20251111_151431_978.jpg, 00:00:22, 8.60 m
Joint displaced, medium



F5X_f2ad8170-38f7-4875-990a-c4721f5776df_20251111_151502_630.jpg, 00:00:27, 10.20 m
Joint displaced, medium



F5X_d233d06a-334f-462f-bd88-0ce385fca302_20251111_151605_418.jpg, 00:00:32, 12.10 m
Joint displaced, medium



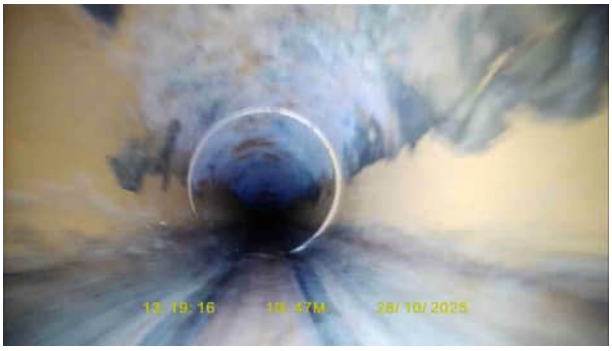
F5X_1f40d20f-d2da-4390-b399-61d4da7f47ab_20251111_151712_067.jpg, 00:00:40, 15.00 m
Joint displaced, medium

Section Pictures - 28/10/2025 - F7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	F7X		22878

F5X_186ab68e-9783-46da-b64a-9a03585a2133_20251111_151757_964.jpg, 00:00:45, 16.80 m
Joint displaced, medium

F5X_b261c99f-01b4-4737-b120-e29244078c5d_20251111_151905_154.jpg, 00:00:49, 18.40 m
Joint displaced, medium



F5X_1dff66bd-032e-4a8e-bacd-66fb24f26518_20251111_152044_033.jpg, 00:00:54, 19.70 m
Joint displaced, medium

F5X_d6a7aa87-dce6-45ac-9724-88720cfde97b_20251111_152206_594.jpg, 00:00:58, 21.30 m
Joint displaced, medium

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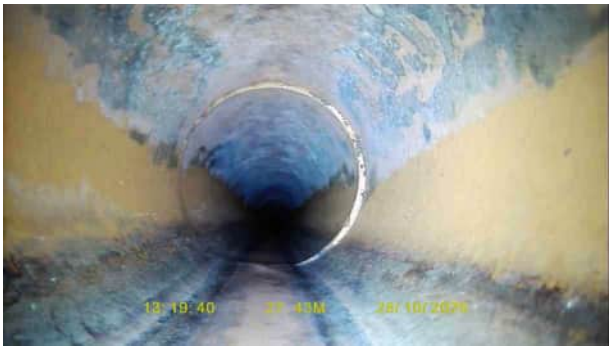
Section Pictures - 28/10/2025 - F7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	F7X		22878

F5X_51817b73-068f-4963-a431-87c08025ca0e_20251111_152352_977.jpg, 00:01:07, 24.50 m
Joint displaced, medium



F5X_5fa9fb26-5a9e-4af4-8b2d-ba6432553e2a_20251111_153015_507.jpg, 00:01:18, 27.70 m
Joint displaced, medium

F5X_a9c42148-3f50-4634-a154-bce27f79a3a9_20251111_153305_087.jpg, 00:01:22, 29.00 m
Joint displaced, medium

F5X_0f6711bb-da22-4f6b-844e-7ba240578ac5_20251111_154255_973.jpg, 00:01:40, 34.00 m
Joint displaced, medium

WinCan

Section Pictures - 28/10/2025 - F7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	F7X		22878

F5X_8bb544a3-cf0a-48fa-a29e-19c2b8d823d8_20251111_154407_360.jpg, 00:01:47, 35.30 m
Joint displaced, medium

F5X_4f78a5c3-e6c6-4d3a-b391-cc41a5f31005_20251111_155138_101.jpg, 00:03:54, 37.00 m
Joint displaced, medium

F5X_bf9c670c-df98-4406-b0ae-73b764d32fc0_20251112_090243_777.jpg, 00:04:07, 39.42 m
Survey abandoned, Traction

Section Inspection - 28/10/2025 - FW10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	28/10/25	13:25	Not Specified	No Rain Or Snow	No	FW10X

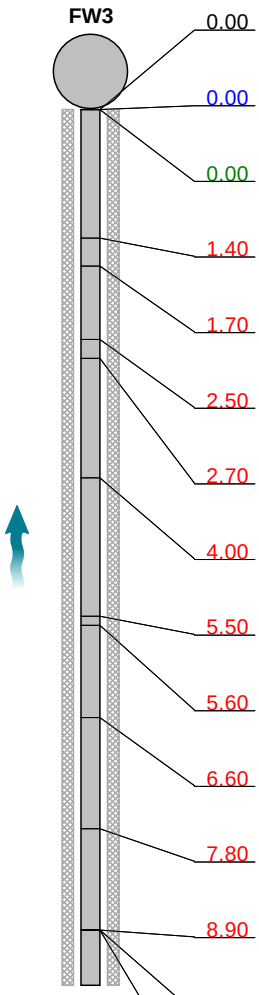
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW10
Road:	Shirley Avenue	**Inspected Length:**	24.20 m	**Upstream Pipe Depth:**	1.190 m
Location:	Property or buildings	**Total Length:**	24.20 m	**Downstream Node:**	FW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.570 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:82 **Depth: 1.57 m**



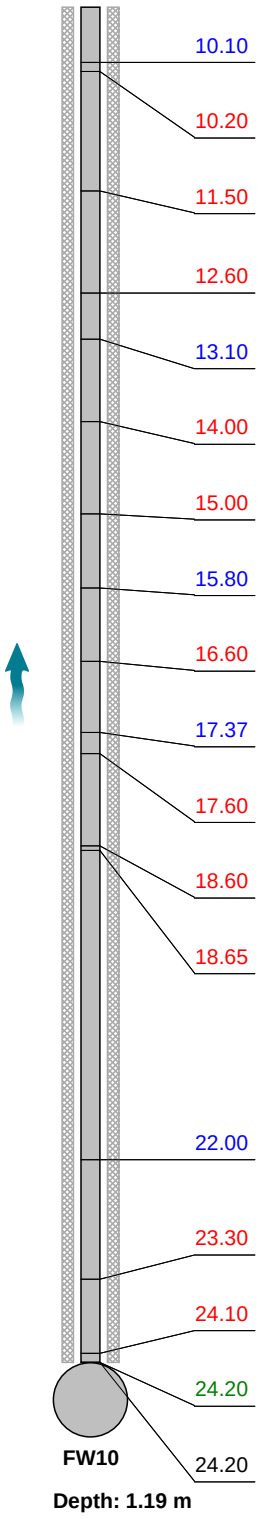
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW3	00:00:00	FW10X_c7c03ad1-0c23-4449-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
1.40		JDM	Joint displaced, medium	00:00:05	FW10X_20bd3924-e9d3-4552-	1 / 3
1.70		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:07	FW10X_c054f2e3-c390-4d55-	2 / 2
2.50		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:09	FW10X_074f6830-182c-4b8e-	2 / 2
2.70		JDM	Joint displaced, medium	00:00:11	FW10X_573caec1-4ddf-434b-a	1 / 3
4.00		JDM	Joint displaced, medium	00:00:14	FW10X_cfc3630a-7400-42c8-9	1 / 3
5.50		JDM	Joint displaced, medium	00:00:19	FW10X_eb7ed734-da40-40b8-	1 / 3
5.60		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:20	FW10X_25132659-a6d9-47d5-	2 / 2
6.60		JDM	Joint displaced, medium	00:00:24	FW10X_3dfe3bc4-1f6b-4057-8	1 / 3
7.80		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:27	FW10X_def1cc6c-2b96-405c-a	2 / 2
8.90		CL	Crack, longitudinal at 5 o'clock	00:00:34	FW10X_330f6a9a-05a9-4ac3-	2 / 2
8.90		CL	Crack, longitudinal at 7 o'clock	00:00:34	FW10X_077355ee-fb3b-4b52-	2 / 2
8.90		CL	Crack, longitudinal at 12 o'clock	00:00:34	FW10X_489b6e79-5db5-4ef5-a	2 / 2

Section Inspection - 28/10/2025 - FW10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	28/10/25	13:25	Not Specified	No Rain Or Snow	No	FW10X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:82



Position [m]		Code	Observation	MPEG	Photo	Grade
10.10		WL	Water level, 15% of the vertical dimension	00:00:40		
10.20		JDL	Joint displaced, large	00:00:40	FW10X_35fc7b96-006a-4807-	1 / 4
11.50		JDM	Joint displaced, medium	00:00:47	FW10X_db7cafa2-fd05-44a5-9	1 / 3
12.60		JDL	Joint displaced, large	00:00:52	FW10X_92b5ace4-6741-415b-	1 / 4
13.10		WL	Water level, 25% of the vertical dimension	00:00:58		
14.00		JDM	Joint displaced, medium	00:01:03	FW10X_895e0a00-141f-4287-9	1 / 3
15.00		JDM	Joint displaced, medium	00:01:08	FW10X_42638c79-95bf-4fe6-b	1 / 3
15.80		WL	Water level, 40% of the vertical dimension	00:01:13		
16.60		JDM	Joint displaced, medium	00:01:16	FW10X_0c9968a9-4ddf-46d7-9	1 / 3
17.37		WL	Water level, 20% of the vertical dimension	00:01:21		
17.60		JDM	Joint displaced, medium	00:01:23	FW10X_81088a87-189d-4eeb-	1 / 3
18.60		JDL	Joint displaced, large	00:01:39	FW10X_69e5f6ae-08e1-45af-9	1 / 4
18.65		CS	Cracks, spiral from 9 o'clock to 12 o'clock	00:01:32	FW10X_392efeec-5fbf-4afe-81	3 / 2
22.00		WL	Water level, 5% of the vertical dimension	00:02:09		
23.30		JDM	Joint displaced, medium	00:02:20	FW10X_8cb0f7d3-f8f3-4a77-99	1 / 3
24.10		JDM	Joint displaced, medium	00:02:43	FW10X_2adfbab0-1aa4-4164-	1 / 3
24.20	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:02:53		3
24.20		ICF	Finish node, inspection chamber, reference: FW10	00:02:53	FW10X_3cc8b4c0-0a2e-4035-	

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
27	42.0	5.8	141.0	3.0	28	8.0	4.3	104.0	4.0

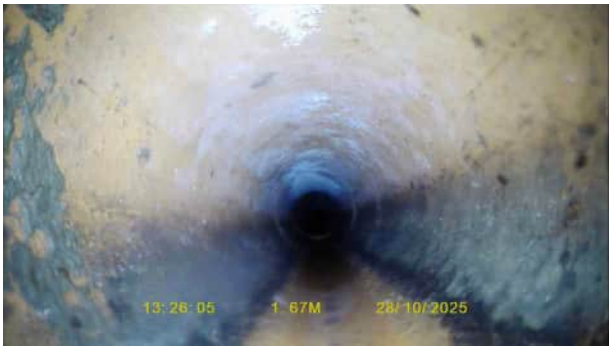
Section Pictures - 28/10/2025 - FW10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	FW10X		22878

FW10X_c7c03ad1-0c23-4449-97d2-95f42c85b789_20251112_091930_056.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW3

FW10X_20bd3924-e9d3-4552-9ea4-787c0de0be64_20251112_092212_407.jpg, 00:00:05, 1.40 m
Joint displaced, medium

FW10X_c054f2e3-c390-4d55-a0b2-094de3b03151_20251112_092657_521.jpg, 00:00:07, 1.70 m
Crack, circumferential from 12 o'clock to 12 o'clock



FW10X_074f6830-182c-4b8e-9ccb-f210aa70bb9e_20251112_092814_001.jpg, 00:00:09, 2.50 m
Crack, circumferential from 12 o'clock to 12 o'clock

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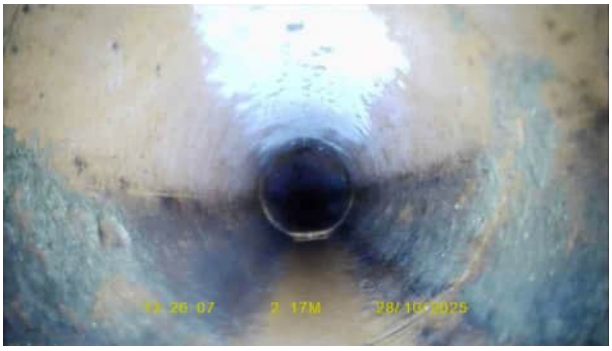
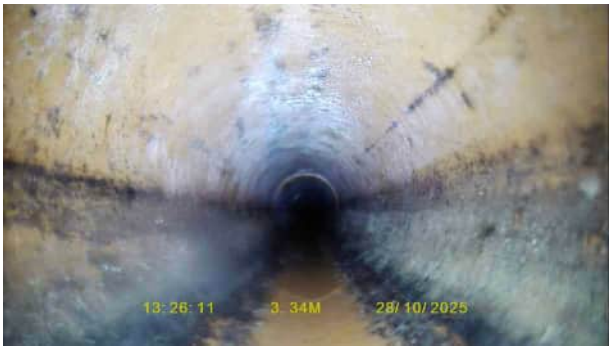
Section Pictures - 28/10/2025 - FW10X

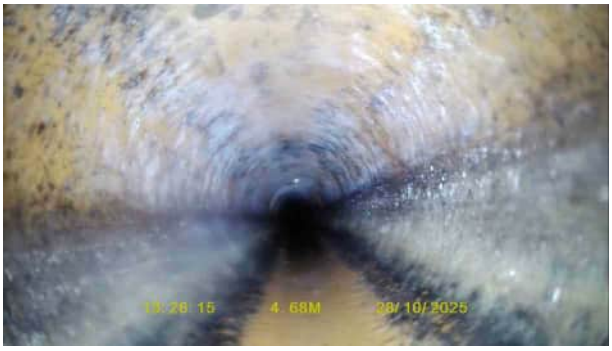
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	FW10X		22878



FW10X_573caec1-4ddf-434b-a7fb-a53aa39ab286_20251112_092930_337.jpg, 00:00:11, 2.70 m
Joint displaced, medium



FW10X_cfc3630a-7400-42c8-9e54-89902061ba3a_20251112_093636_321.jpg, 00:00:14, 4.00 m
Joint displaced, medium

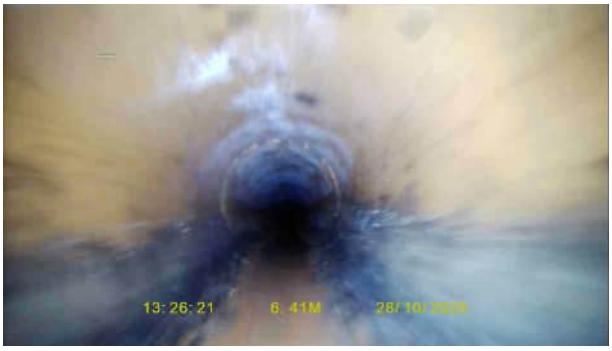


FW10X_eb7ed734-da40-40b8-b928-f46d97a64ad2_20251112_093750_506.jpg, 00:00:19, 5.50 m
Joint displaced, medium

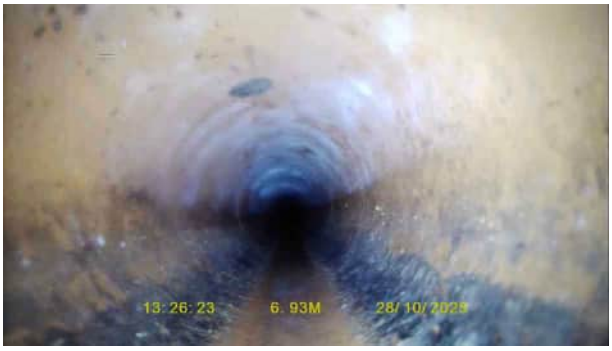
FW10X_25132659-a6d9-47d5-86e5-cdcfbf520643_20251112_093850_013.jpg, 00:00:20, 5.60 m
Crack, circumferential from 12 o'clock to 12 o'clock

Section Pictures - 28/10/2025 - FW10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	FW10X		22878



FW10X_3dfe3bc4-1f6b-4057-8a48-feb6acdb94a9_20251112_094015_534.jpg, 00:00:24, 6.60 m
Joint displaced, medium



FW10X_def1cc6c-2b96-405c-a940-7b1131057b74_20251112_094113_288.jpg, 00:00:27, 7.80 m
Crack, circumferential from 12 o'clock to 12 o'clock

FW10X_330f6a9a-05a9-4ac3-b717-c846faa110f7_20251112_094539_645.jpg, 00:00:34, 8.90 m
Crack, longitudinal at 5 o'clock

FW10X_077355ee-fb3b-4b52-b57b-9b671e513dc4_20251112_094606_908.jpg, 00:00:34, 8.90 m
Crack, longitudinal at 7 o'clock

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Section Pictures - 28/10/2025 - FW10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	FW10X		22878

FW10X_489b6e79-5db5-4ef5-a0f8-95d66fbbe097_20251112_094659_471.jpg, 00:00:34, 8.90 m
Crack, longitudinal at 12 o'clock

FW10X_35fc7b96-006a-4807-9626-0c2ef77b51d7_20251112_094753_344.jpg, 00:00:40, 10.20 m
Joint displaced, large

FW10X_db7cafa2-fd05-44a5-9589-2edd2dbbb439_20251112_095209_492.jpg, 00:00:47, 11.50 m
Joint displaced, medium

FW10X_92b5ace4-6741-415b-9f3a-a924808fd3ba_20251112_100322_391.jpg, 00:00:52, 12.60 m
Joint displaced, large

Section Pictures - 28/10/2025 - FW10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	FW10X		22878

FW10X_895e0a00-141f-4287-92d8-25938a8ac141_20251112_100631_338.jpg, 00:01:03, 14.00 m
Joint displaced, medium

FW10X_42638c79-95bf-4fe6-b475-ce8a4adaa6bf_20251112_101011_839.jpg, 00:01:08, 15.00 m
Joint displaced, medium

FW10X_0c9968a9-4ddf-46d7-9399-b31673ade2fc_20251112_101230_846.jpg, 00:01:16, 16.60 m
Joint displaced, medium

FW10X_81088a87-189d-4eeb-b334-c13ca4e55463_20251112_101705_448.jpg, 00:01:23, 17.60 m
Joint displaced, medium

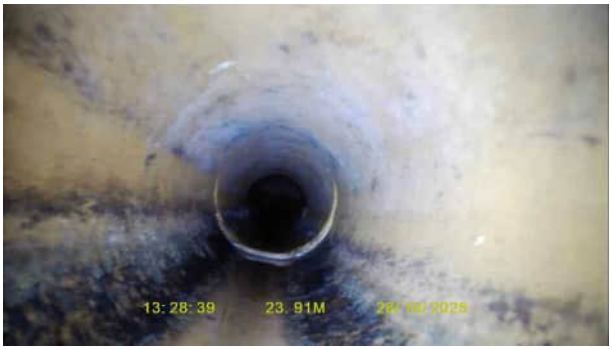
Section Pictures - 28/10/2025 - FW10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	FW10X		22878

FW10X_69e5f6ae-08e1-45af-9fc6-638c67ddbe9d_20251112_102045_864.jpg, 00:01:39, 18.60 m
Joint displaced, large

FW10X_392efeec-5fbf-4afe-8198-d4e8d0fd9419_20251112_101920_471.jpg, 00:01:32, 18.65 m
Cracks, spiral from 9 o'clock to 12 o'clock

FW10X_8cb0f7d3-f8f3-4a77-9922-20841c327a18_20251112_103149_500.jpg, 00:02:20, 23.30 m
Joint displaced, medium



FW10X_2adfbab0-1aa4-4164-9016-1c85cfea51b3_20251112_103340_900.jpg, 00:02:43, 24.10 m
Joint displaced, medium

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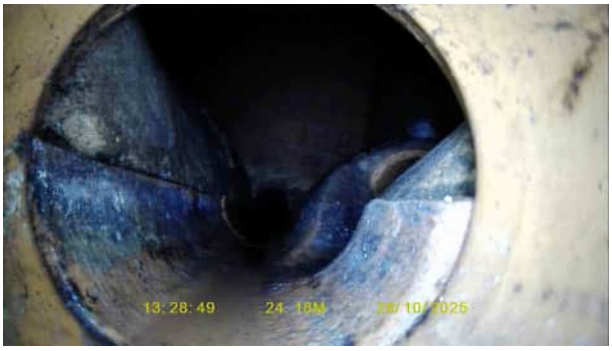
Section Pictures - 28/10/2025 - FW10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	FW10X		22878



FW10X_3cc8b4c0-0a2e-4035-920c-d6b3a5981d64_20251112_103444_457.jpg, 00:02:53, 24.20 m
Finish node, inspection chamber, reference: FW10

Section Inspection - 28/10/2025 - FW5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	28/10/25	13:33	Not Specified	No Rain Or Snow	No	FW5X

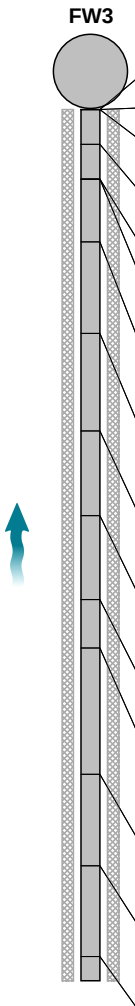
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW5
Road:	Shirley Avenue	**Inspected Length:**	12.80 m	**Upstream Pipe Depth:**	1.260 m
Location:	Property or buildings	**Total Length:**	12.80 m	**Downstream Node:**	FW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.530 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:108 **Depth: 1.53 m**



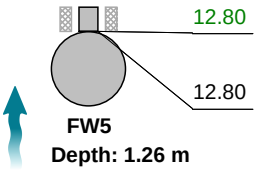
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW3	00:00:00	FW5X_63541612-0bb5-4a39-b	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.50		JDM	Joint displaced, medium	00:00:02	FW5X_26907e93-da37-43a8-b	1 / 3
1.00		LR	Line deviates right	00:00:04		
1.00		JDL	Joint displaced, large	00:00:04	FW5X_c14c5f38-df04-489c-bb	1 / 4
1.90		JDM	Joint displaced, medium	00:00:06	FW5X_d3886a20-5566-4197-b	1 / 3
3.20		JDM	Joint displaced, medium	00:00:10	FW5X_9053817d-fad6-48c5-b	1 / 3
4.60		JDM	Joint displaced, medium	00:00:14	FW5X_802c77e1-e95d-4386-9	1 / 3
5.80		JDL	Joint displaced, large	00:00:18	FW5X_1629d8bf-9f25-4cea-9d	1 / 4
7.00		JDM	Joint displaced, medium	00:00:23	FW5X_43613266-4eea-4eb7-9	1 / 3
7.70	C01	DES	Settled deposits, fine, 25% cross-sectional area loss, change	00:00:27		
9.50		JDM	Joint displaced, medium	00:00:32	FW5X_e68be286-3fb0-4a62-9	1 / 3
10.80		JDM	Joint displaced, medium	00:00:41	FW5X_a1ab8634-7f0c-47fb-93	1 / 3
12.10		JDM	Joint displaced, medium	00:00:46	FW5X_d4d2ce8c-e55e-44de-b	1 / 3

Section Inspection - 28/10/2025 - FW5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	28/10/25	13:33	Not Specified	No Rain Or Snow	No	FW5X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:108



Position [m]		Code	Observation	MPEG	Photo	Grade
12.80	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:51		3
12.80		ICF	Finish node, inspection chamber, reference: FW5	00:00:51	FW5X_514029e4-114e-4ae3-9	

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
10	2.0	0.9	12.0	1.0	11	7.0	4.1	52.0	4.0

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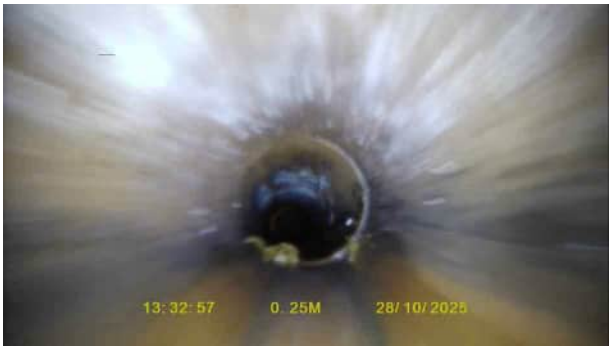
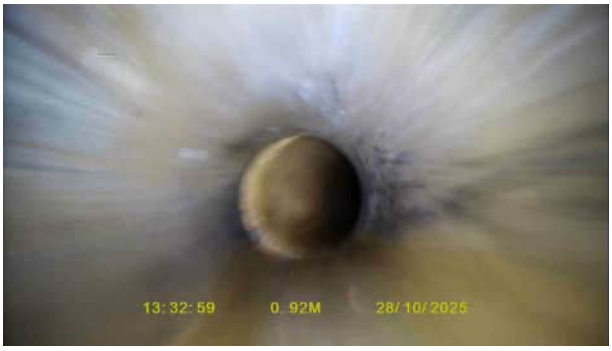
Section Pictures - 28/10/2025 - FW5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Upstream	FW5X		22878

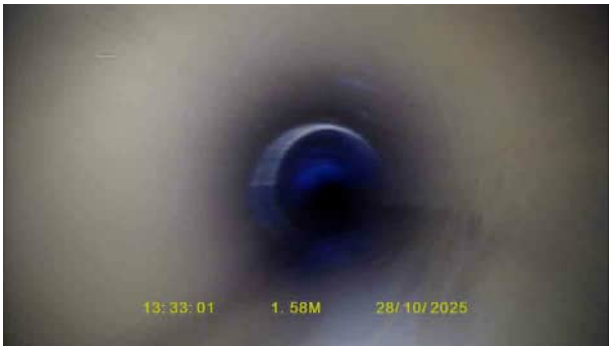
FW5X_63541612-0bb5-4a39-b3e8-42141940315e_20251119_141452_504.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW3



FW5X_26907e93-da37-43a8-b343-da660b5443da_20251112_104058_307.jpg, 00:00:02, 0.50 m
Joint displaced, medium



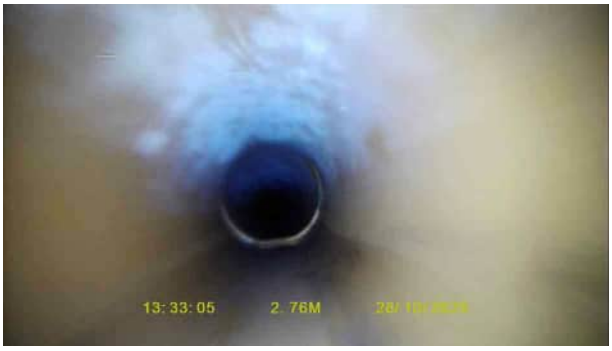
FW5X_c14c5f38-df04-489c-bb58-9c5b14575b02_20251112_104120_606.jpg, 00:00:04, 1.00 m
Joint displaced, large



FW5X_d3886a20-5566-4197-b158-1086b139d2d7_20251112_104200_300.jpg, 00:00:06, 1.90 m
Joint displaced, medium

Section Pictures - 28/10/2025 - FW5X

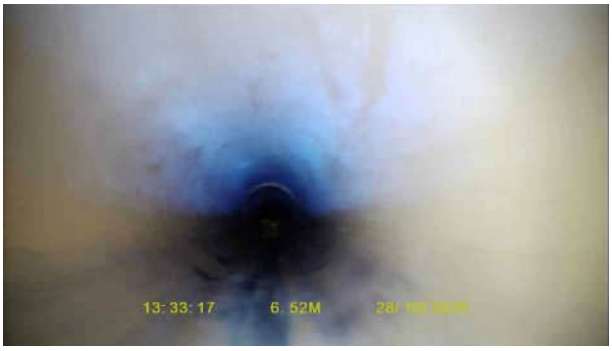
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Upstream	FW5X		22878



FW5X_9053817d-fad6-48c5-b896-a1d56bd0ecf9_20251112_104229_971.jpg, 00:00:10, 3.20 m
Joint displaced, medium

FW5X_802c77e1-e95d-4386-9019-33ab9df8dd79_20251112_104257_489.jpg, 00:00:14, 4.60 m
Joint displaced, medium

FW5X_1629d8bf-9f25-4cea-9d51-af0238f9ded7_20251112_104334_417.jpg, 00:00:18, 5.80 m
Joint displaced, large



FW5X_43613266-4eea-4eb7-9d45-b5070e4480fc_20251112_104407_571.jpg, 00:00:23, 7.00 m
Joint displaced, medium

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Section Pictures - 28/10/2025 - FW5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Upstream	FW5X		22878

FW5X_e68be286-3fb0-4a62-9ec8-9cdf7f42df51_20251112_104940_946.jpg, 00:00:32, 9.50 m
Joint displaced, medium

FW5X_a1ab8634-7f0c-47fb-9343-55b850d3ad4e_20251112_105015_938.jpg, 00:00:41, 10.80 m
Joint displaced, medium

FW5X_d4d2ce8c-e55e-44de-b628-a2b478a5d3fd_20251112_105053_872.jpg, 00:00:46, 12.10 m
Joint displaced, medium

FW5X_514029e4-114e-4ae3-9d41-7c7f72d4af35_20251112_105315_471.jpg, 00:00:51, 12.80 m
Finish node, inspection chamber, reference: FW5

Section Inspection - 30/10/2025 - FW3Y

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	30/10/25	13:37	Not Specified	No Rain Or Snow	No	FW3Y

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

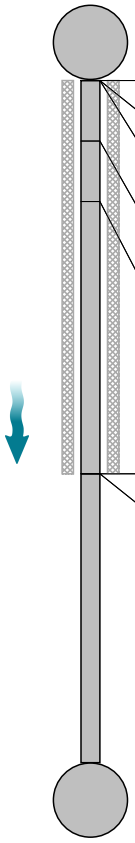
Town or Village:	Gomersal	**Inspection Direction:**	Downstream	**Upstream Node:**	FW3
Road:	Shirley Avenue	**Inspected Length:**	2.60 m	**Upstream Pipe Depth:**	1.620 m
Location:	Property or buildings	**Total Length:**	4.51 m	**Downstream Node:**	FW1
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.720 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.62 m
FW3



FW1
Depth: 1.72 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW3	00:00:00	FW3X_966f4b25-4761-4742-9	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.40		JDM	Joint displaced, medium	00:00:03	FW3X_43283d01-b795-4ac0-8	1 / 3
0.80		JDM	Joint displaced, medium	00:00:04	FW3X_d94fc0fa-2b98-4d40-8b	1 / 3
2.60	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:08	FW3X_e6bc3317-0dc7-4658-a	3
2.60		OCF	Finish node, other special chamber, reference: FW1: To point surveyed from downstream	00:00:08	FW3Y_980a3b50-e0a0-4e3b-a	

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**
2	1.0	0.4	2.0	1.0	3	4.0	2.2	10.0	3.0

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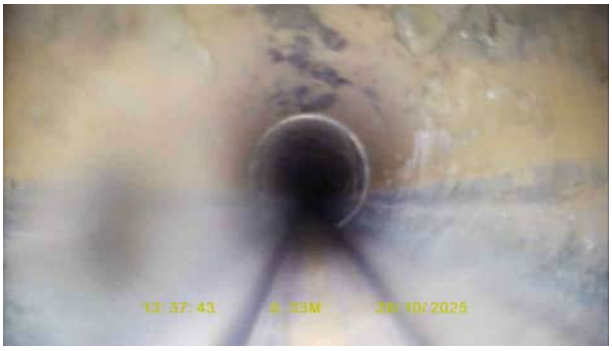
Section Pictures - 30/10/2025 - FW3Y

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	FW3Y		22878

FW3X_966f4b25-4761-4742-9b27-4908a6d3a127_20251112_113502_273.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW3

FW3X_43283d01-b795-4ac0-8191-ba793bdc17f1_20251112_113605_729.jpg, 00:00:03, 0.40 m
Joint displaced, medium



FW3X_d94fc0fa-2b98-4d40-8bcb-c1e5c83bc869_20251112_113714_025.jpg, 00:00:04, 0.80 m
Joint displaced, medium

FW3X_e6bc3317-0dc7-4658-ab6d-99b905ed7266_20251112_113822_607.jpg, 00:00:08, 2.60 m
Settled deposits, fine, 5% cross-sectional area loss, finish

WinCan

Section Pictures - 30/10/2025 - FW3Y

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	FW3Y		22878

FW3Y_980a3b50-e0a0-4e3b-acda-dad450753b61_20251119_142452_952.jpg, 00:00:08, 2.60 m
Finish node, other special chamber, reference: FW1, To point surveyed from downstream

Section Inspection - 28/10/2025 - FW6X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	28/10/25	15:08	Not Specified	No Rain Or Snow	No	FW6X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

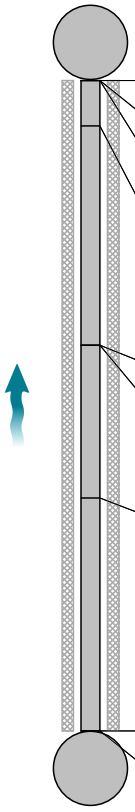
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW6
Road:	Shirley Avenue	**Inspected Length:**	4.30 m	**Upstream Pipe Depth:**	1.150 m
Location:	Property or buildings	**Total Length:**	4.30 m	**Downstream Node:**	FW5
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.220 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.22 m
FW5



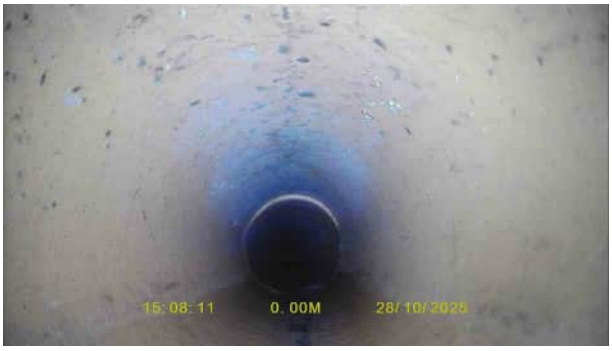
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW5	00:00:00	FW6X_c294d5c6-8c37-4f23-99	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.30		JDM	Joint displaced, medium	00:00:00	FW6X_57dbe9e5-9112-49d9-b	1 / 3
1.75		RFJ	Roots, fine at joint	00:00:06		2
1.75		JDM	Joint displaced, medium	00:00:06	FW6X_7135da8b-4c6f-48d7-ba	1 / 3
2.76		JDL	Joint displaced, large	00:00:11	FW6X_4c1e159a-31e7-4152-9	1 / 4
4.30	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:35		3
4.30		ICF	Finish node, inspection chamber, reference: FW6	00:00:35		

FW6
Depth: 1.15 m

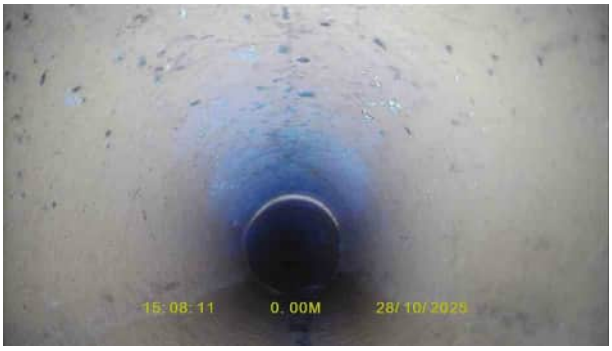
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
3	2.0	0.9	4.0	1.0	5	7.0	4.7	20.0	4.0

Section Pictures - 28/10/2025 - FW6X

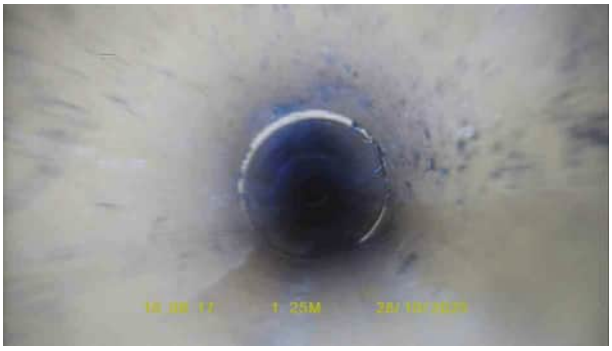
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	FW6X		22878



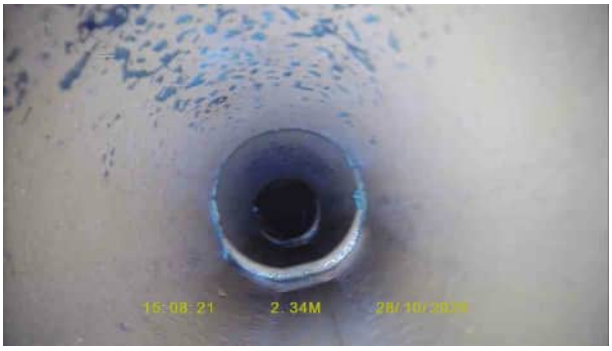
FW6X_c294d5c6-8c37-4f23-99fb-7c7e925a9c59_20251120_084559_493.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW5



FW6X_57dbe9e5-9112-49d9-bea4-0af80982a84b_20251120_084628_059.jpg, 00:00:00, 0.30 m
Joint displaced, medium



FW6X_7135da8b-4c6f-48d7-baa0-6ee387c81491_20251120_084651_758.jpg, 00:00:06, 1.75 m
Joint displaced, medium



FW6X_4c1e159a-31e7-4152-9abe-9e2748637fe0_20251120_084709_237.jpg, 00:00:11, 2.76 m
Joint displaced, large

Section Inspection - 28/10/2025 - F12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	28/10/25	15:15	Not Specified	No Rain Or Snow	No	F12X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F12
Road:	Shirley Avenue	**Inspected Length:**	2.50 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.50 m	**Downstream Node:**	FW5
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.220 m

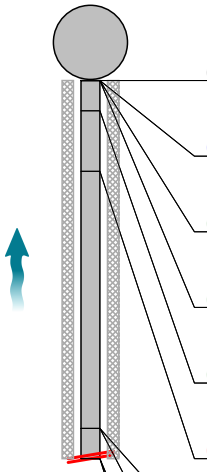
Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.22 m

FW5



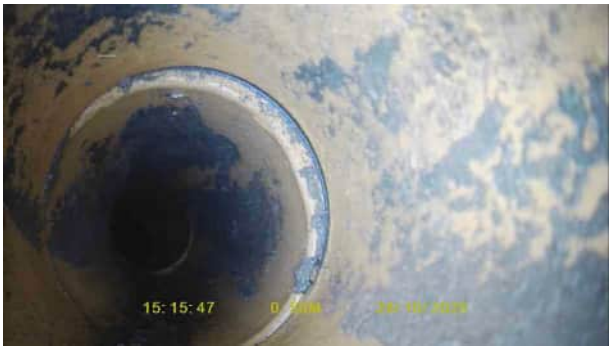
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW5	00:00:00	F12X_4af88f0c-0f7e-429b-94e7	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.00		LU	Line deviates up	00:00:00		
0.20		LL	Line deviates left	00:00:05		
0.60		JDL	Joint displaced, large	00:00:10	F12X_1414158c-9cc2-454c-81	1 / 4
2.30		WL	Water level, 10% of the vertical dimension	00:00:29		
2.30	C01	DES	Settled deposits, fine, 10% cross-sectional area loss, change	00:00:29		
2.50	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:36		3
2.50		SA	Survey abandoned: Silt	00:00:36	F12X_fb06563c-58f2-4a4c-a0e7	

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	2.0	0.8	2.0	1.0	2	7.0	4.4	11.0	4.0

Section Pictures - 28/10/2025 - F12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	F12X		22878

F12X_4af88f0c-0f7e-429b-94e7-21a77dd8652d_20251120_084914_757.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW5



F12X_1414158c-9cc2-454c-81ca-7f4db72234b7_20251120_084949_077.jpg, 00:00:10, 0.60 m
Joint displaced, large

F12X_fb06563c-58f2-4a4c-a0e7-9ae1542b9ff6_20251120_085035_502.jpg, 00:00:36, 2.50 m
Survey abandoned, Silt

Section Inspection - 28/10/2025 - F17X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	28/10/25	15:17	Not Specified	No Rain Or Snow	No	F17X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

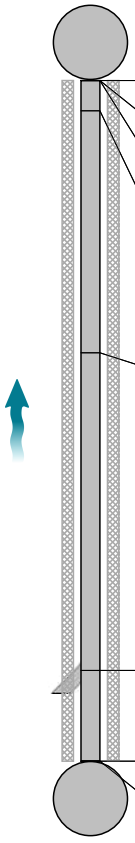
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F17
Road:	Shirley Avenue	**Inspected Length:**	4.50 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.50 m	**Downstream Node:**	FW6
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.150 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.15 m
FW6



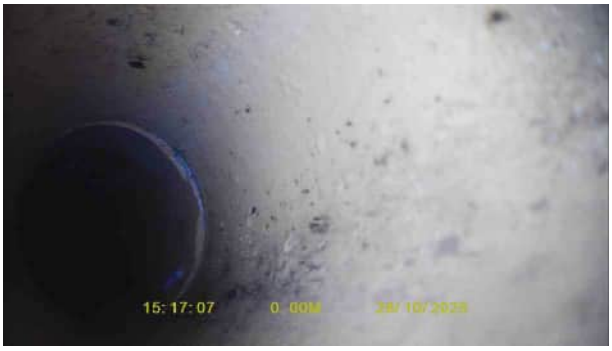
F17
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW6	00:00:00	F17X_89a12d6c-1439-48ec-8b	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.20		LL	Line deviates left	00:00:26		
1.80		JDM	Joint displaced, medium	00:00:58	F17X_e672bf31-b12a-43ec-85	1 / 3
3.90		JN	Junction at 3 o'clock, 100mm dia	00:01:04	F17X_4fa78655-21c3-4722-b57	
4.50	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:09		3
4.50		OCF	Finish node, other special chamber, reference: F17: WP	00:01:09	F17X_30355b48-7cba-4b5c-ae	

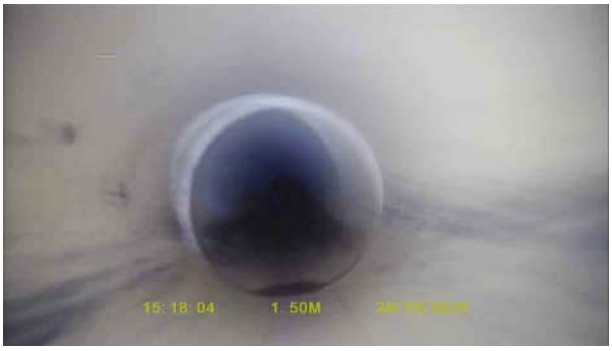
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	1.0	0.2	1.0	1.0	2	4.0	2.7	12.0	4.0

Section Pictures - 28/10/2025 - F17X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Upstream	F17X		22878



F17X_89a12d6c-1439-48ec-8b76-36ee0f1930c7_20251120_085611_524.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW6



F17X_e672bf31-b12a-43ec-853c-c1446073dc43_20251120_085721_547.jpg, 00:00:58, 1.80 m
Joint displaced, medium

F17X_4fa78655-21c3-4722-b577-ff12b86e1dcd_20251120_085749_731.jpg, 00:01:04, 3.90 m
Junction at 3 o'clock, 100mm dia

F17X_30355b48-7cba-4b5c-ae37-c60b2e39dc3f_20251120_085819_011.jpg, 00:01:09, 4.50 m
Finish node, other special chamber, reference: F17, WP

Section Inspection - 28/10/2025 - FW7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	28/10/25	15:19	Not Specified	No Rain Or Snow	No	FW7X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

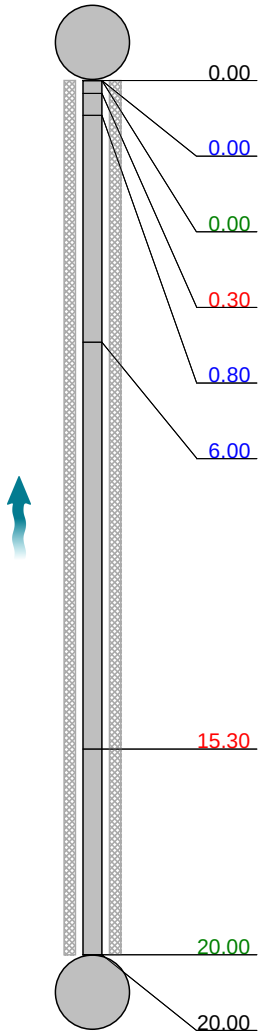
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW7
Road:	Shirley Avenue	**Inspected Length:**	20.00 m	**Upstream Pipe Depth:**	0.940 m
Location:	Property or buildings	**Total Length:**	20.00 m	**Downstream Node:**	FW6
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.220 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:173

Depth: 1.22 m
FW6



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW6	00:00:00	FW7X_8a41dc8f-706f-448f-86	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.30		JDL	Joint displaced, large	00:00:00	FW7X_914e6680-6c0b-4353-a	1 / 4
0.80		WL	Water level, 20% of the vertical dimension	00:00:09		
6.00		WL	Water level, 5% of the vertical dimension	00:00:41		
15.30		JDL	Joint displaced, large	00:02:18	FW7X_6c468e00-d953-4cff-ba	1 / 4
20.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:02:46		3
20.00		ICF	Finish node, inspection chamber, reference: FW7	00:02:46	FW7X_42d40952-5865-4490-9	

FW7
Depth: 0.94 m

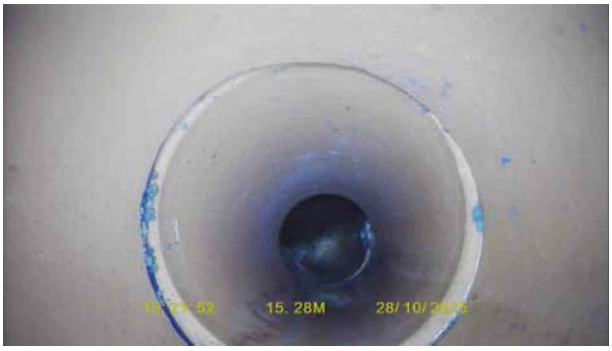
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
2	2.0	0.2	4.0	1.0	3	7.0	2.5	50.0	4.0

Section Pictures - 28/10/2025 - FW7X

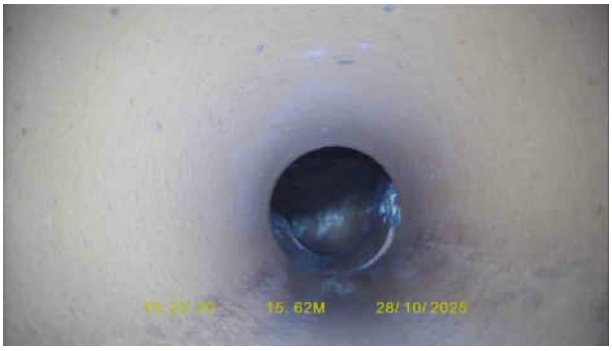
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Upstream	FW7X		22878

FW7X_8a41dc8f-706f-448f-86e2-7124ec7bb523_20251120_090242_545.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW6

FW7X_914e6680-6c0b-4353-a0d8-0c8bcf1f1561_20251120_090307_552.jpg, 00:00:00, 0.30 m
Joint displaced, large



FW7X_6c468e00-d953-4cff-ba50-59900b4c4ea0_20251120_090419_183.jpg, 00:02:18, 15.30 m
Joint displaced, large



FW7X_42d40952-5865-4490-949a-8fcb78a22a01_20251120_090443_963.jpg, 00:02:46, 20.00 m
Finish node, inspection chamber, reference: FW7

Section Inspection - 28/10/2025 - FW8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	28/10/25	15:30	Not Specified	No Rain Or Snow	No	FW8X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

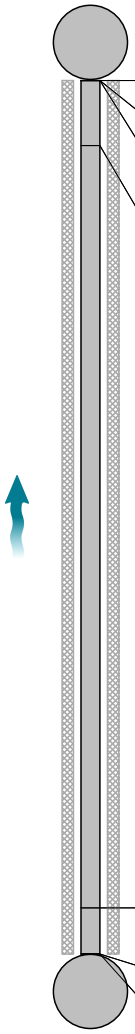
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW8
Road:	Shirley Avenue	**Inspected Length:**	6.70 m	**Upstream Pipe Depth:**	0.860 m
Location:	Property or buildings	**Total Length:**	6.70 m	**Downstream Node:**	FW7
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.940 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:58

Depth: 0.94 m
FW7



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW7	00:00:00	FW8X_ee7a4568-0cd5-4d62-af	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.50		JDM	Joint displaced, medium	00:00:00	FW8X_107658d3-2152-471b-af	1 / 3
6.35		JDM	Joint displaced, medium	00:00:20	FW8X_678862db-929b-46e8-b	1 / 3
6.70	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:27		3
6.70		ICF	Finish node, inspection chamber, reference: FW8	00:00:27	FW8X_c4952df1-13be-438a-9f	

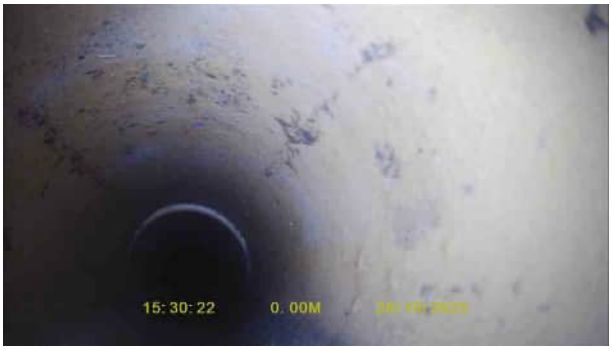
FW8
Depth: 0.86 m

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**
2	1.0	0.3	2.0	1.0	3	4.0	2.7	18.0	4.0

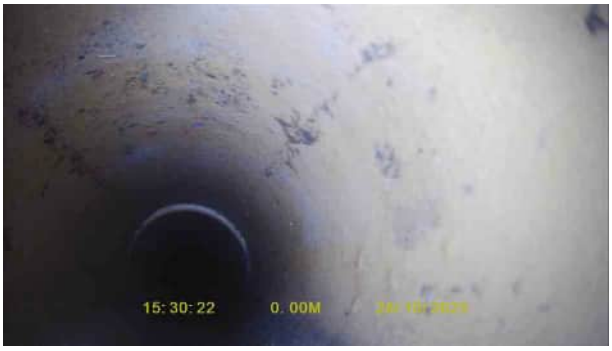
WinCan

Section Pictures - 28/10/2025 - FW8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
15	Upstream	FW8X		22878



FW8X_ee7a4568-0cd5-4d62-af57-e830cd69fd96_20251120_091343_393.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW7



FW8X_107658d3-2152-471b-af3c-6fa22d3b4b34_20251120_091405_225.jpg, 00:00:00, 0.50 m
Joint displaced, medium

FW8X_678862db-929b-46e8-b434-01713861fd8f_20251120_091429_518.jpg, 00:00:20, 6.35 m
Joint displaced, medium

FW8X_c4952df1-13be-438a-9fc4-9c86633f050b_20251120_091445_153.jpg, 00:00:27, 6.70 m
Finish node, inspection chamber, reference: FW8

Section Inspection - 28/10/2025 - F16X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	28/10/25	15:50	Not Specified	No Rain Or Snow	No	F16X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

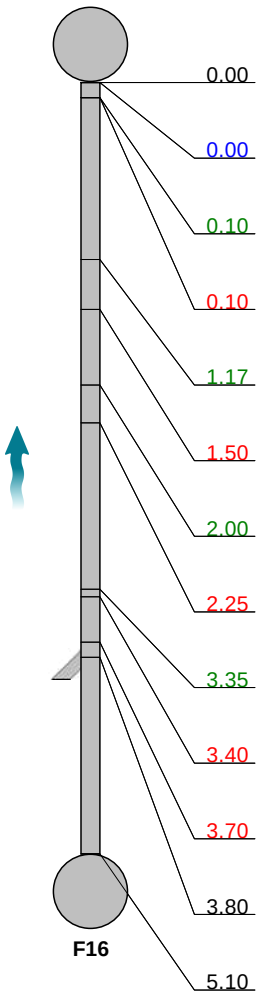
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F16
Road:	Shirley Avenue	**Inspected Length:**	5.10 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.10 m	**Downstream Node:**	FW8
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.860 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.86 m
FW8



F16
Depth: 0.00 m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	IC	Start node, inspection chamber, reference: FW8	00:00:00	F16X_3dec09ef-61b2-4e63-b1	
0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
0.10	LL	Line deviates left	00:00:00		
0.10	JDM	Joint displaced, medium	00:00:00	F16X_0a61345b-0ac1-41b1-8d	1 / 3
1.17	RMJ	Roots, mass at joint, 15% cross-sectional area loss	00:00:05	F16X_119b5c05-1f66-413e-9fb	3
1.50	JDM	Joint displaced, medium	00:00:06	F16X_f7fa5f3c-410d-4953-8e48	1 / 3
2.00	RMJ	Roots, mass at joint, 15% cross-sectional area loss	00:00:08	F16X_9e62d634-ec89-436d-9b	3
2.25	JDM	Joint displaced, medium	00:00:09	F16X_487be942-4aff-4c21-89af	1 / 3
3.35	RMJ	Roots, mass at joint, 15% cross-sectional area loss	00:00:17	F16X_ca098908-7440-4f91-bfb	3
3.40	CSJ	Cracks, spiral at joint from 7 o'clock to 11 o'clock	00:00:17	F16X_055a04e2-d450-4994-b5	3 / 2
3.70	JDL	Joint displaced, large	00:00:17		1 / 4
3.80	JN	Junction at 3 o'clock, 100mm dia	00:00:18	F16X_941b50ba-13df-4d5c-898	
5.10	OCF	Finish node, other special chamber, reference: F16: WP	00:00:27	F16X_3544b9f7-2bb0-48dd-a9	

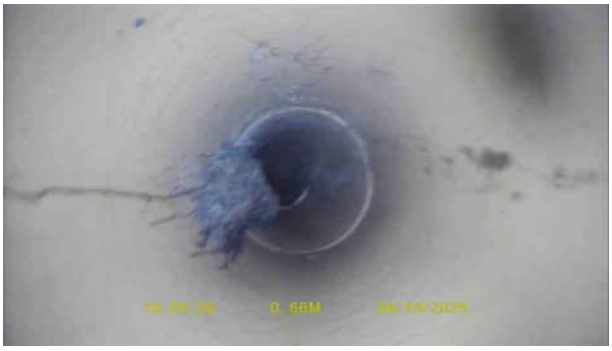
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
5	40.0	8.8	45.0	3.0	8	5.0	4.7	24.0	4.0

Section Pictures - 28/10/2025 - F16X

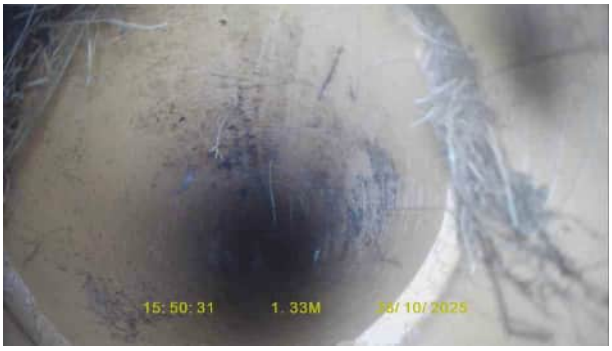
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
16	Upstream	F16X		22878

F16X_3dec09ef-61b2-4e63-b174-4c457b96bb01_20251120_094631_178.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW8

F16X_0a61345b-0ac1-41b1-8dbf-4b5e32534f95_20251120_094648_141.jpg, 00:00:00, 0.10 m
Joint displaced, medium



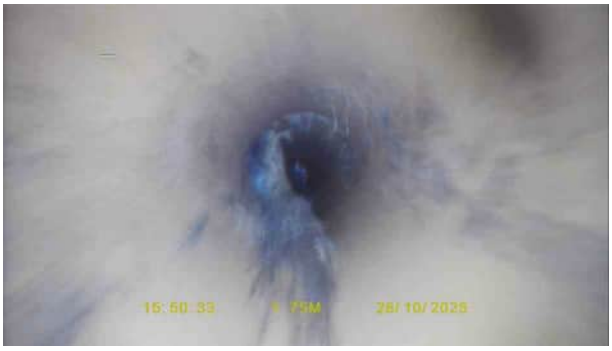
F16X_119b5c05-1f66-413e-9fbc-7dc4a9a18f46_20251120_094729_737.jpg, 00:00:05, 1.17 m
Roots, mass at joint, 15% cross-sectional area loss



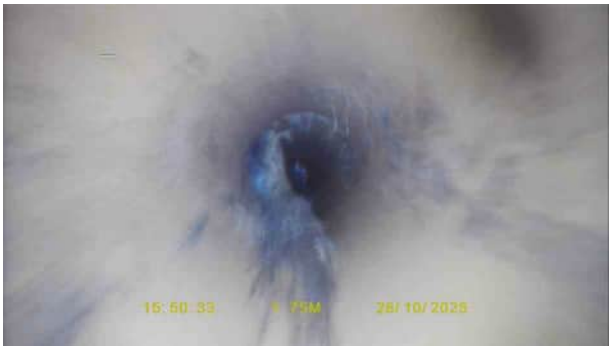
F16X_f7fa5f3c-410d-4953-8e48-d084bac5d927_20251120_094745_904.jpg, 00:00:06, 1.50 m
Joint displaced, medium

Section Pictures - 28/10/2025 - F16X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
16	Upstream	F16X		22878



F16X_9e62d634-ec89-436d-9b1f-a6b414dd4ab7_20251120_094811_432.jpg, 00:00:08, 2.00 m
Roots, mass at joint, 15% cross-sectional area loss



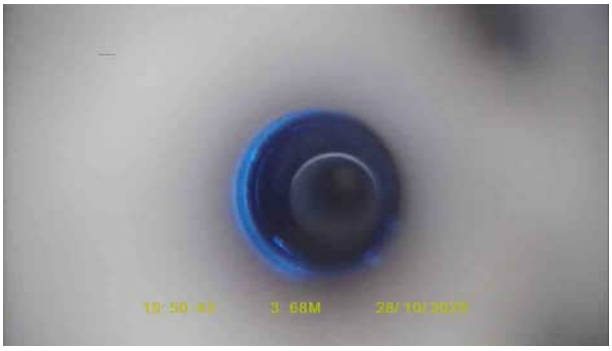
F16X_487be942-4aff-4c21-89af-20a87fcc5b13_20251120_094835_745.jpg, 00:00:09, 2.25 m
Joint displaced, medium

F16X_ca098908-7440-4f91-bfb8-af5343603fbc_20251120_094917_659.jpg, 00:00:17, 3.35 m
Roots, mass at joint, 15% cross-sectional area loss

F16X_055a04e2-d450-4994-b564-6fbf0796fd2d_20251120_094943_303.jpg, 00:00:17, 3.40 m
Cracks, spiral at joint from 7 o'clock to 11 o'clock

Section Pictures - 28/10/2025 - F16X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
16	Upstream	F16X		22878



F16X_941b50ba-13df-4d5c-8986-230fe05723d4_20251120_095014_938.jpg, 00:00:18, 3.80 m
Junction at 3 o'clock, 100mm dia

F16X_3544b9f7-2bb0-48dd-a91a-b137fbb6cfc0_20251120_095035_570.jpg, 00:00:27, 5.10 m
Finish node, other special chamber, reference: F16, WP

Section Inspection - 28/10/2025 - FW9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	28/10/25	15:51	Not Specified	No Rain Or Snow	No	FW9X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

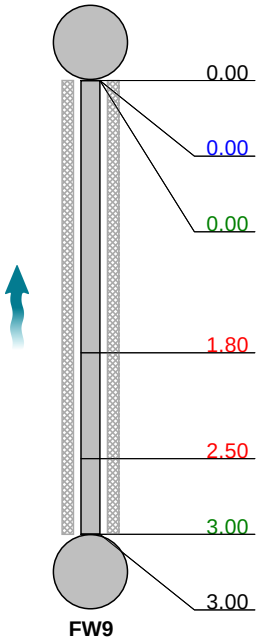
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW9
Road:	Shirley Avenue	**Inspected Length:**	3.00 m	**Upstream Pipe Depth:**	0.760 m
Location:	Property or buildings	**Total Length:**	3.00 m	**Downstream Node:**	FW8
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.860 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.86 m
FW8



FW9
Depth: 0.76 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW8	00:00:00	FW9X_1d80b47b-9ebb-4193-9	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
1.80		JDM	Joint displaced, medium	00:00:06		1 / 3
2.50		JDM	Joint displaced, medium	00:00:11	FW9X_99a7e607-1d8d-4e43-a	1 / 3
3.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:15		3
3.00		ICF	Finish node, inspection chamber, reference: FW9	00:00:15	FW9X_299f47fb-1462-41f1-a33	

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**
2	1.0	0.7	2.0	1.0	3	4.0	3.3	10.0	4.0

Section Pictures - 28/10/2025 - FW9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
17	Upstream	FW9X		22878

FW9X_1d80b47b-9ebb-4193-960b-379990867af4_20251120_095423_985.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW8

FW9X_99a7e607-1d8d-4e43-a25e-42f48c057b03_20251120_095504_821.jpg, 00:00:11, 2.50 m
Joint displaced, medium

FW9X_299f47fb-1462-41f1-a33b-e55f59191c6a_20251120_095519_806.jpg, 00:00:15, 3.00 m
Finish node, inspection chamber, reference: FW9

Section Inspection - 28/10/2025 - F18X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	28/10/25	15:57	Not Specified	No Rain Or Snow	No	F18X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

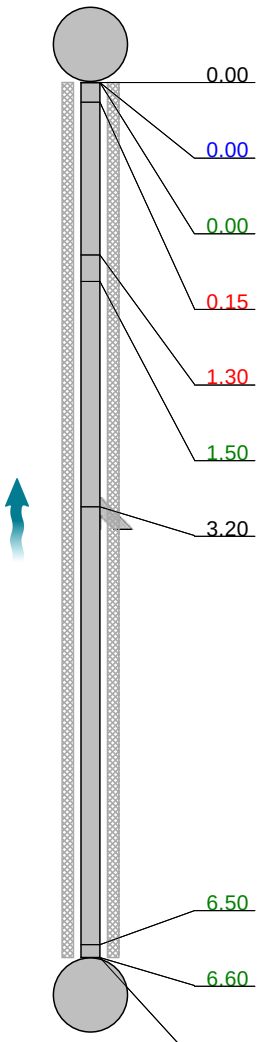
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F18
Road:	Shirley Avenue	**Inspected Length:**	6.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	6.60 m	**Downstream Node:**	FW9
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.770 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:57

Depth: 0.77 m
FW9



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW9	00:00:00	F18X_d12bbb9b-8176-43c7-bc	
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.15		JDM	Joint displaced, medium	00:00:00	F18X_71e8331f-eacb-4d38-96	1 / 3
1.30		JDM	Joint displaced, medium	00:00:06	F18X_c7e4496d-2752-4866-8a	1 / 3
1.50		LL	Line deviates left	00:00:11		
3.20		JN	Junction at 9 o'clock, 100mm dia	00:00:17	F18X_90043daa-d39f-433c-ada	
6.50	C01	DES	Settled deposits, fine, 15% cross-sectional area loss, change	00:01:06		
6.60	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:06		3
6.60		OCF	Finish node, other special chamber, reference: F18: WP	00:01:06	F18X_15df9ef0-aa66-4fa9-af01-	

F18
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**
2	1.0	0.3	2.0	1.0	3	4.0	2.7	18.0	4.0

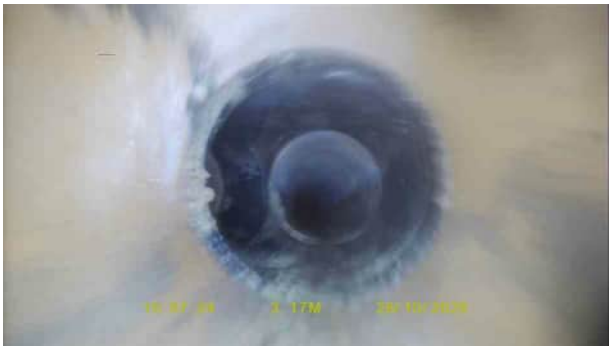
Section Pictures - 28/10/2025 - F18X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
18	Upstream	F18X		22878

F18X_d12bbb9b-8176-43c7-bce2-37e3255c9796_20251120_095733_616.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW9

F18X_71e8331f-eacb-4d38-967e-dfb9aac1f9a7_20251120_095755_996.jpg, 00:00:00, 0.15 m
Joint displaced, medium

F18X_c7e4496d-2752-4866-8a41-ee8af329f7dc_20251120_095819_872.jpg, 00:00:06, 1.30 m
Joint displaced, medium



F18X_90043daa-d39f-433c-adae-6718dd3bdc0d_20251120_095852_397.jpg, 00:00:17, 3.20 m
Junction at 9 o'clock, 100mm dia

Section Pictures - 28/10/2025 - F18X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
18	Upstream	F18X		22878

F18X_15df9ef0-aa66-4fa9-af01-54f04c45d0fe_20251120_095927_456.jpg, 00:01:06, 6.60 m
Finish node, other special chamber, reference: F18, WP

Section Inspection - 28/10/2025 - F19X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	28/10/25	15:58	Not Specified	No Rain Or Snow	No	F19X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

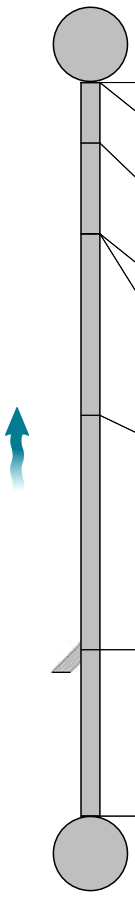
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F19
Road:	Shirley Avenue	**Inspected Length:**	4.85 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.85 m	**Downstream Node:**	FW9
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.760 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.76 m
FW9



F19
Depth: 0.00 m

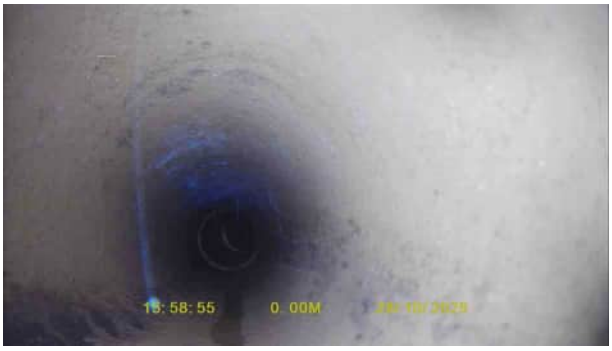
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	IC	Start node, inspection chamber, reference: FW9	00:00:00	F19X_87d13dbb-de77-4984-b5	
0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
0.40	JDM	Joint displaced, medium	00:00:04	F19X_6afdfd43-a8e3-4970-9bdb	1 / 3
1.00	LR	Line deviates right	00:00:05		
1.00	JDM	Joint displaced, medium	00:00:05	F19X_735fbdf6-34e5-4209-ac70	1 / 3
2.20	JDM	Joint displaced, medium	00:00:08	F19X_350fa825-05e1-4b2b-bbb	1 / 3
3.75	JN	Junction at 3 o'clock, 100mm dia	00:00:16	F19X_11fdce23-8f58-4a97-8aa4	
4.85	OCF	Finish node, other special chamber, reference: F19: WP	00:00:31	F19X_ab6bba8a-b8f9-4b3c-92	

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
3	1.0	0.6	3.0	1.0	3	2.0	1.2	6.0	3.0

WinCan

Section Pictures - 28/10/2025 - F19X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	Upstream	F19X		22878



F19X_87d13dbb-de77-4984-b5ec-1b34eac97415_20251120_101309_752.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW9

F19X_6afdfd43-a8e3-4970-9bdb-038c5f50a752_20251120_101332_001.jpg, 00:00:04, 0.40 m
Joint displaced, medium

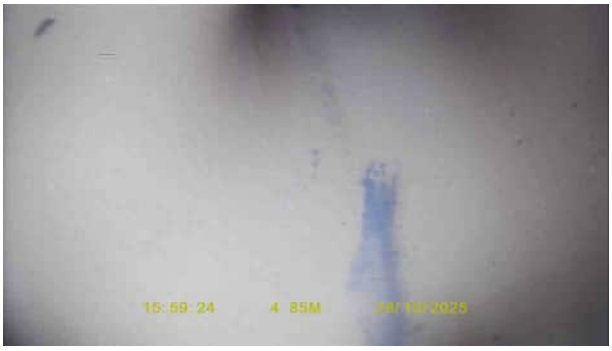
F19X_735fbdf6-34e5-4209-ac70-a1b61ea1732f_20251120_101353_138.jpg, 00:00:05, 1.00 m
Joint displaced, medium

F19X_350fa825-05e1-4b2b-bbbd-cd063b224118_20251120_101422_908.jpg, 00:00:08, 2.20 m
Joint displaced, medium

Section Pictures - 28/10/2025 - F19X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	Upstream	F19X		22878

F19X_11fdce23-8f58-4a97-8aa4-bb40b7db22ba_20251120_101440_918.jpg, 00:00:16, 3.75 m
Junction at 3 o'clock, 100mm dia



F19X_ab6bba8a-b8f9-4b3c-92dd-332e66f8746d_20251120_101457_153.jpg, 00:00:31, 4.85 m
Finish node, other special chamber, reference: F19, WP

Section Inspection - 29/10/2025 - FW11X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	29/10/25	10:18	Not Specified	No Rain Or Snow	No	FW11X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW11
Road:	Shirley Avenue	**Inspected Length:**	2.90 m	**Upstream Pipe Depth:**	1.160 m
Location:	Property or buildings	**Total Length:**	2.90 m	**Downstream Node:**	FW10
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.180 m

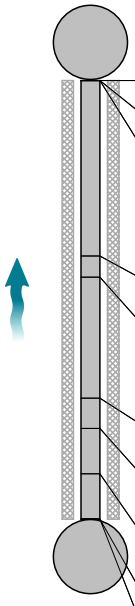
Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.18 m

FW10



FW11

Depth: 1.16 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW10	00:00:00	FW11X_3dda44b6-7823-4467-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
1.16		JDM	Joint displaced, medium	00:00:05	FW11X_233712f4-b549-4f77-9	1 / 3
1.30		WL	Water level, 25% of the vertical dimension	00:00:06		
2.10		CLJ	Crack, longitudinal at joint at 12 o'clock	00:00:10	FW11X_f4fa0d8a-fa89-4324-a3	2 / 2
2.30		FS	Fracture, spiral from 10 o'clock to 8 o'clock	00:00:18	FW11X_6a9dffb3-148d-45b8-b	4 / 2
2.60		JDL	Joint displaced, large	00:00:18	FW11X_26d85041-8c72-4dde-	1 / 4
2.90	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:38		3
2.90		ICF	Finish node, inspection chamber, reference: FW11	00:00:38	FW11X_d164bb39-a2ff-4201-9	

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**
4	92.0	32.1	93.0	4.0	5	9.0	5.2	15.0	5.0

Section Pictures - 29/10/2025 - FW11X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	Upstream	FW11X		22878

FW11X_3dda44b6-7823-4467-965d-606f375b9f11_20251120_113752_197.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW10

FW11X_233712f4-b549-4f77-92a5-c976eede4891_20251120_113830_811.jpg, 00:00:05, 1.16 m
Joint displaced, medium

FW11X_f4fa0d8a-fa89-4324-a3b1-3c5d7799767d_20251120_113918_841.jpg, 00:00:10, 2.10 m
Crack, longitudinal at joint at 12 o'clock

FW11X_6a9dffb3-148d-45b8-b387-6fbfaa13c859_20251120_114008_688.jpg, 00:00:18, 2.30 m
Fracture, spiral from 10 o'clock to 8 o'clock

Section Pictures - 29/10/2025 - FW11X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	Upstream	FW11X		22878

FW11X_26d85041-8c72-4dde-a82d-4ce203946c4a_20251120_114026_559.jpg, 00:00:18, 2.60 m
Joint displaced, large

FW11X_d164bb39-a2ff-4201-9e3c-136bcbe43cfd_20251120_114043_092.jpg, 00:00:38, 2.90 m
Finish node, inspection chamber, reference: FW11

Section Inspection - 29/10/2025 - F21X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	29/10/25	10:19	Not Specified	No Rain Or Snow	No	F21X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

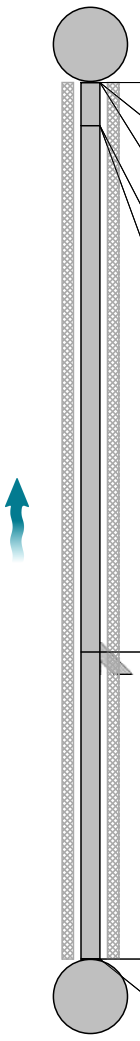
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F21
Road:	Shirley Avenue	**Inspected Length:**	8.00 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	8.00 m	**Downstream Node:**	FW10
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.160 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:69

Depth: 1.16 m
FW10



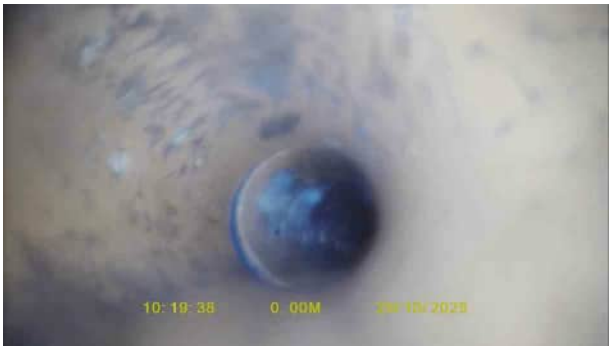
F21
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW10	00:00:00	F21X_c84c2c3a-747c-405d-bc	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.40		LR	Line deviates right	00:00:00		
0.40		JDM	Joint displaced, medium	00:00:00	F21X_38de18f6-88c9-446e-bd	1 / 3
5.20		JN	Junction at 9 o'clock, 100mm dia	00:00:21	F21X_074d1524-77c2-4efc-b2b	
8.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:35		3
8.00		OCF	Finish node, other special chamber, reference: F21: WP	00:00:35	F21X_d5803f17-3c57-43c3-91	

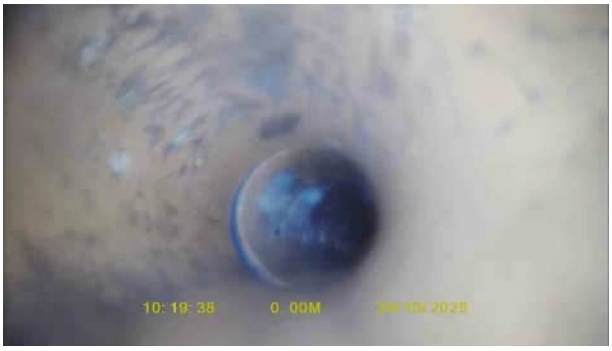
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.1	1.0	1.0	2	4.0	2.3	18.0	3.0

Section Pictures - 29/10/2025 - F21X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	Upstream	F21X		22878



F21X_c84c2c3a-747c-405d-bc30-4e29296df8ad_20251120_114226_354.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW10



F21X_38de18f6-88c9-446e-bd61-ad66a089acce_20251120_114257_071.jpg, 00:00:00, 0.40 m
Joint displaced, medium

F21X_074d1524-77c2-4efc-b2b1-ea565621575a_20251120_114331_298.jpg, 00:00:21, 5.20 m
Junction at 9 o'clock, 100mm dia

F21X_d5803f17-3c57-43c3-9148-0919fae25ef9_20251120_114356_267.jpg, 00:00:35, 8.00 m
Finish node, other special chamber, reference: F21, WP

Section Inspection - 29/10/2025 - FW12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	29/10/25	10:27	Not Specified	No Rain Or Snow	No	FW12X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

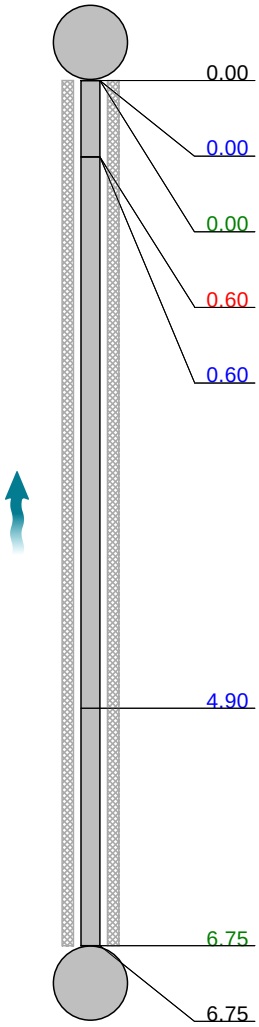
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW12
Road:	Shirley Avenue	**Inspected Length:**	6.75 m	**Upstream Pipe Depth:**	1.160 m
Location:	Property or buildings	**Total Length:**	6.75 m	**Downstream Node:**	FW11
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.180 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:59

Depth: 1.18 m
FW11



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW11	00:00:00	FW13X_7ec2b4b6-53e5-4011-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.60		JDL	Joint displaced, large	00:00:00	FW13X_ab5e0ca1-c957-4deb-	1 / 4
0.60		WL	Water level, 30% of the vertical dimension	00:00:05		
4.90		WL	Water level, 5% of the vertical dimension	00:00:46		
6.75	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:56		3
6.75		ICF	Finish node, inspection chamber, reference: FW12	00:00:56	FW13X_ff744812-3222-40ad-8	

FW12
Depth: 1.16 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	2.0	0.3	2.0	1.0	2	7.0	2.8	19.0	4.0

WinCan

Section Pictures - 29/10/2025 - FW12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
22	Upstream	FW12X		22878

FW13X_7ec2b4b6-53e5-4011-96d7-6c64044b5a22_20251120_114907_750.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW11

FW13X_ab5e0ca1-c957-4deb-96ab-785ed34d6408_20251120_114927_807.jpg, 00:00:00, 0.60 m
Joint displaced, large

FW13X_ff744812-3222-40ad-86a1-417f9b30c0ec_20251120_115025_879.jpg, 00:00:56, 6.75 m
Finish node, inspection chamber, reference: FW12

Section Inspection - 29/10/2025 - F23X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	29/10/25	10:30	Not Specified	No Rain Or Snow	No	F23X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

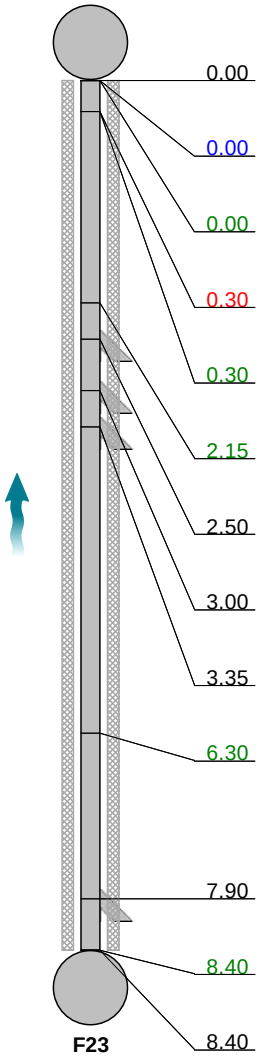
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F23
Road:	Shirley Avenue	**Inspected Length:**	8.40 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	8.40 m	**Downstream Node:**	FW11
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.150 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:73

Depth: 1.15 m
FW11



F23
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW11	00:00:00	F23X_b51cf032-7b5f-4fee-8dd9	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.30		JDM	Joint displaced, medium	00:00:00		1 / 3
0.30		LR	Line deviates right	00:00:00		
2.15		LL	Line deviates left	00:00:11		
2.50		JN	Junction at 9 o'clock, 100mm dia	00:00:10	F23X_4ca446dc-c1da-45ed-a3	
3.00		JN	Junction at 9 o'clock, 100mm dia	00:00:11	F23X_a796e45f-509e-4451-94	
3.35		JN	Junction at 9 o'clock, 100mm dia	00:00:13	F23X_d04bb9c2-0c81-47be-b9	
6.30	C01	DES	Settled deposits, fine, 15% cross-sectional area loss, change	00:00:26		
7.90		JN	Junction at 9 o'clock, 100mm dia	00:00:39		
8.40	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:00:45		3
8.40		OCF	Finish node, other special chamber, reference: F23: WP	00:00:45	F23X_5b51dc48-ae75-4a8f-936	

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	0.1	1.0	1.0	2	4.0	2.4	20.0	3.0

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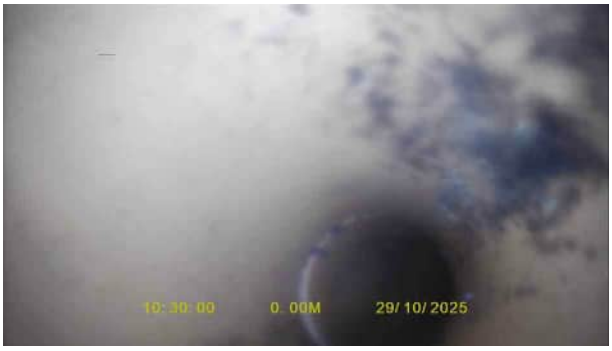
Section Pictures - 29/10/2025 - F23X

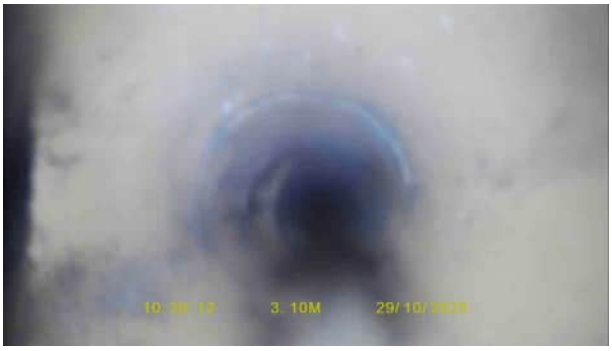
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	Upstream	F23X		22878



F23X_b51cf032-7b5f-4fee-8dd9-d24d1444132e_20251120_115538_599.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW11

F23X_4ca446dc-c1da-45ed-a3a8-5f3963ff91ea_20251120_115644_807.jpg, 00:00:10, 2.50 m
Junction at 9 o'clock, 100mm dia

F23X_a796e45f-509e-4451-947a-2d8b60229c1f_20251120_115643_711.jpg, 00:00:11, 3.00 m
Junction at 9 o'clock, 100mm dia



F23X_d04bb9c2-0c81-47be-b983-2a59bd8b7214_20251120_115745_849.jpg, 00:00:13, 3.35 m
Junction at 9 o'clock, 100mm dia

WinCan

Section Pictures - 29/10/2025 - F23X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	Upstream	F23X		22878

F23X_5b51dc48-ae75-4a8f-9361-6c0f7935ea7d_20251120_115843_663.jpg, 00:00:45, 8.40 m
Finish node, other special chamber, reference: F23, WP

Section Inspection - 29/10/2025 - FW13X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	29/10/25	10:47	Not Specified	No Rain Or Snow	No	FW13X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

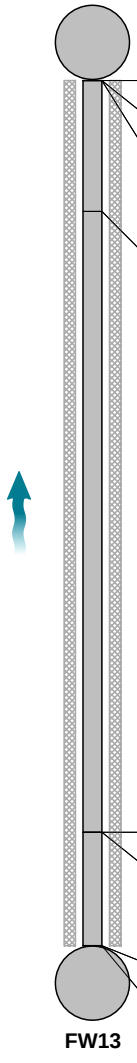
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW13
Road:	Shirley Avenue	**Inspected Length:**	5.95 m	**Upstream Pipe Depth:**	0.900 m
Location:	Property or buildings	**Total Length:**	5.95 m	**Downstream Node:**	FW12
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.150 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:52

Depth: 1.15 m
FW12



FW13
Depth: 0.90 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW12	00:00:00	FW13X_120424f2-95b7-4a33-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.90		JDM	Joint displaced, medium	00:00:04	FW13X_3edb8a71-4c39-4554-	1 / 3
5.17		JDL	Joint displaced, large	00:00:21	FW13X_60e47147-1baf-41fa-8	1 / 4
5.17		JDL	Joint displaced, large	00:00:23		1 / 4
5.95	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:28		3
5.95		ICF	Finish node, inspection chamber, reference: FW13	00:00:28	FW13X_17cab6dd-e6d6-4b3b-	

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**
3	4.0	0.8	5.0	1.0	4	12.0	4.0	24.0	5.0

Section Pictures - 29/10/2025 - FW13X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
24	Upstream	FW13X		22878

FW13X_120424f2-95b7-4a33-b99d-3f17215606e5_20251120_123632_215.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW12

FW13X_3edb8a71-4c39-4554-9429-70adf5819015_20251120_123654_775.jpg, 00:00:04, 0.90 m
Joint displaced, medium

FW13X_60e47147-1baf-41fa-8881-d245d2a19dcf_20251120_123723_383.jpg, 00:00:21, 5.17 m
Joint displaced, large

FW13X_17cab6dd-e6d6-4b3b-961c-2675d8f8c88a_20251120_123801_551.jpg, 00:00:28, 5.95 m
Finish node, inspection chamber, reference: FW13

Section Inspection - 29/10/2025 - FW12AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	29/10/25	10:48	Not Specified	No Rain Or Snow	No	FW12AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

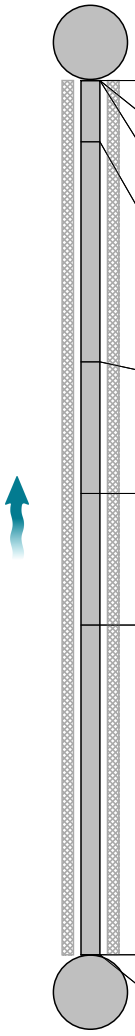
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	FW12A
Road:	Shirley Avenue	**Inspected Length:**	9.95 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	9.95 m	**Downstream Node:**	FW12
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.150 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:86

Depth: 1.15 m
FW12



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW12	00:00:00	FW12AX_894953b8-0c28-4071	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.70		LR	Line deviates right	00:00:05		
3.20		JDM	Joint displaced, medium	00:00:14	FW12AX_4bd3fe5a-ad99-4f7d-	1 / 3
4.70		JDL	Joint displaced, large	00:00:20	FW12AX_452bb5d4-7c66-46d1	1 / 4
6.20		JDM	Joint displaced, medium	00:00:28	FW12AX_38cf8bb1-48c1-46a1	1 / 3
9.95	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:18		3
9.95		ICF	Finish node, inspection chamber, reference: FW12A	00:01:18	FW12AX_926322e7-e51d-4c28	

FW12A
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**
3	2.0	0.4	4.0	1.0	4	7.0	2.9	29.0	4.0

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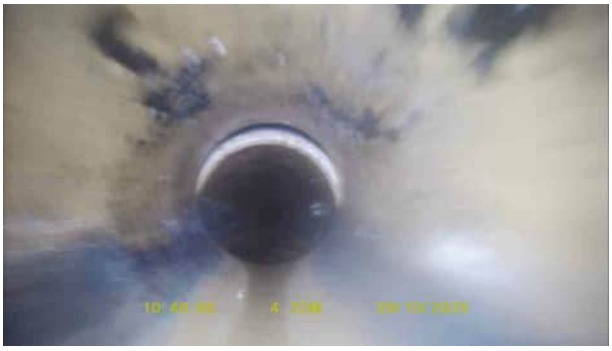
Section Pictures - 29/10/2025 - FW12AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Upstream	FW12AX		22878

FW12AX_894953b8-0c28-4071-a2ac-eb830aa5e765_20251120_123944_093.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW12

FW12AX_4bd3fe5a-ad99-4f7d-aa8f-49db1b421f49_20251120_124011_429.jpg, 00:00:14, 3.20 m
Joint displaced, medium



FW12AX_452bb5d4-7c66-46d1-ab1c-6cefbd10b6ef_20251120_124029_496.jpg, 00:00:20, 4.70 m
Joint displaced, large

FW12AX_38cf8bb1-48c1-46a1-8f4c-39dde8b70faf_20251120_124045_174.jpg, 00:00:28, 6.20 m
Joint displaced, medium

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Section Pictures - 29/10/2025 - FW12AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Upstream	FW12AX		22878

FW12AX_926322e7-e51d-4c28-8dae-05067e0027f6_20251120_124213_520.jpg, 00:01:18, 9.95 m
Finish node, inspection chamber, reference: FW12A

Section Inspection - 29/10/2025 - F26X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	29/10/25	11:40	Not Specified	No Rain Or Snow	No	F26X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

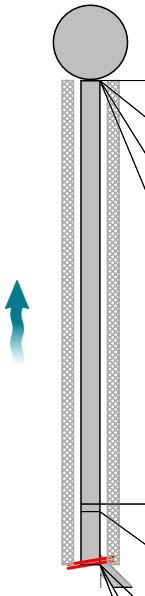
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F26
Road:	Shirley Avenue	**Inspected Length:**	3.20 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	3.20 m	**Downstream Node:**	FW13
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.860 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.86 m
FW13



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW13	00:00:00	F26X_cd651f74-8b93-40b2-9cf	
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.00		LU	Line deviates up	00:00:00		
2.80		WL	Water level, 5% of the vertical dimension	00:00:00		
2.85		LR	Line deviates right	00:00:10		
3.20		JN	Junction at 9 o'clock, 100mm dia	00:00:12	F26X_b94183f1-739c-4493-93	
3.20	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:17		3
3.20		SA	Survey abandoned: Silt	00:00:17	F26X_96c58a51-cfb6-4bba-85	

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	2.5	8.0	4.0

Section Pictures - 29/10/2025 - F26X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
26	Upstream	F26X		22878

F26X_cd651f74-8b93-40b2-9cff-cec93c3565f6_20251120_132755_150.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW13

F26X_b94183f1-739c-4493-93b7-b68a8541690c_20251120_132902_276.jpg, 00:00:12, 3.20 m
Junction at 9 o'clock, 100mm dia

F26X_96c58a51-cfb6-4bba-8549-2484045e34fa_20251120_132918_009.jpg, 00:00:17, 3.20 m
Survey abandoned, Silt

Section Inspection - 29/10/2025 - F27X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	29/10/25	11:41	Not Specified	No Rain Or Snow	No	F27X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

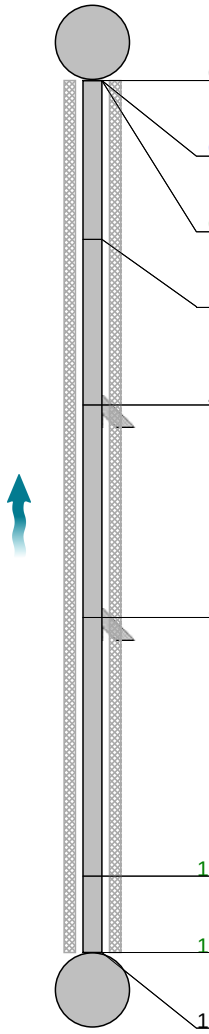
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F27
Road:	Shirley Avenue	**Inspected Length:**	13.15 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	13.15 m	**Downstream Node:**	FW13
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.810 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:114

Depth: 0.81 m
FW13



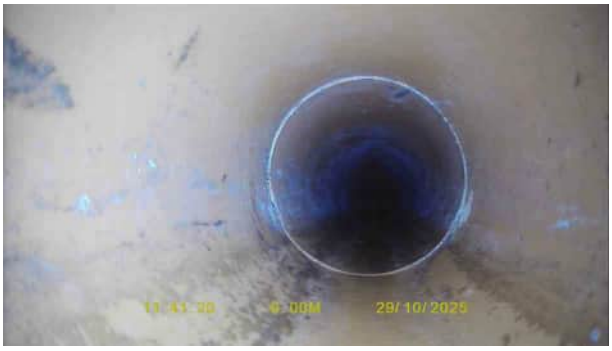
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW13	00:00:00	F27X_541698ed-882c-48b0-b0	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
2.40		LR	Line deviates right	00:00:10		
4.90		JN	Junction at 9 o'clock, 100mm dia	00:00:20	F27X_83ab3591-f6ba-49b0-b1	
8.10		JN	Junction at 9 o'clock, 100mm dia	00:00:28	F27X_090e1ad3-ee09-45a2-8c	
12.00		LR	Line deviates right	00:00:45		
13.15	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:51		3
13.15		OCF	Finish node, other special chamber, reference: F27: WP	00:00:51	F27X_d3c4dd9b-0772-44a7-9c	

F27
Depth: 0.00 m

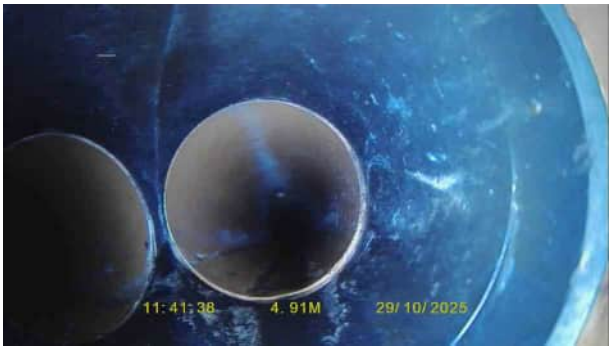
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.1	28.0	3.0

Section Pictures - 29/10/2025 - F27X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
27	Upstream	F27X		22878

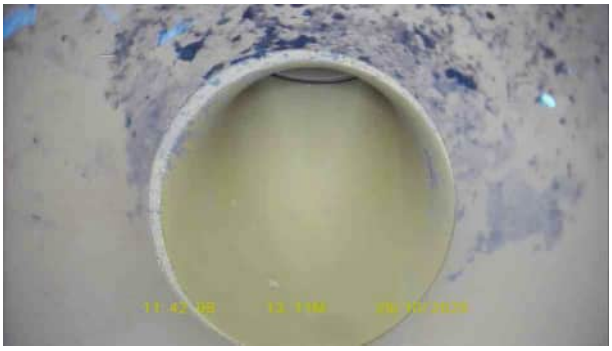


F27X_541698ed-882c-48b0-b049-2bec2950a2b4_20251120_133216_908.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW13



F27X_83ab3591-f6ba-49b0-b15e-274c6571bd2d_20251120_133249_501.jpg, 00:00:20, 4.90 m
Junction at 9 o'clock, 100mm dia

F27X_090e1ad3-ee09-45a2-8c13-56851b860ee8_20251120_133325_419.jpg, 00:00:28, 8.10 m
Junction at 9 o'clock, 100mm dia



F27X_d3c4dd9b-0772-44a7-9c52-e67c56b82d97_20251120_133355_254.jpg, 00:00:51, 13.15 m
Finish node, other special chamber, reference: F27, WP

Section Inspection - 29/10/2025 - F28X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
28	1	29/10/25	11:52	Not Specified	No Rain Or Snow	No	F28X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

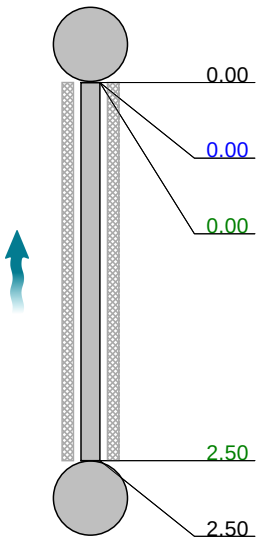
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F28
Road:	Shirley Avenue	**Inspected Length:**	2.50 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.50 m	**Downstream Node:**	FW14
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.710 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.71 m
FW14



F28
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW14	00:00:00	F28X_bb191c79-a988-4738-b6	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
2.50	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:13		3
2.50		OCF	Finish node, other special chamber, reference: F28: WP	00:00:13	F28X_738219f8-cc74-4289-89f	

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	2.4	6.0	3.0

WinCan

Section Pictures - 29/10/2025 - F28X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
28	Upstream	F28X		22878

F28X_bb191c79-a988-4738-b69f-8a408ab3b77d_20251120_133952_183.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW14

F28X_738219f8-cc74-4289-89f4-c76189dc7ca2_20251120_134021_850.jpg, 00:00:13, 2.50 m
Finish node, other special chamber, reference: F28, WP

Section Inspection - 29/10/2025 - F29X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
29	1	29/10/25	12:49	Not Specified	No Rain Or Snow	No	F29X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

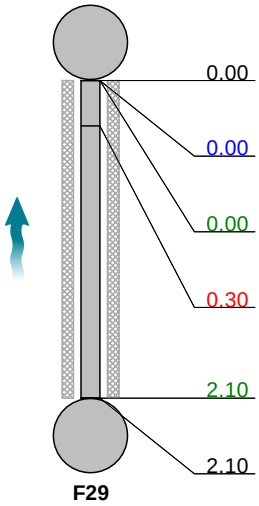
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F29
Road:	Shirley Avenue	**Inspected Length:**	2.10 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.10 m	**Downstream Node:**	FW15
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.48 m
FW15



F29
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW15	00:00:00	F29X_98031fc3-af66-4d90-831	
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:01		
0.30		JDM	Joint displaced, medium	00:00:01		1 / 3
2.10	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:14		3
2.10		OCF	Finish node, other special chamber, reference: F29: WP	00:00:14	F29X_c6789ac2-5bf9-43df-aa9	

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	2	4.0	3.8	8.0	4.0

Section Pictures - 29/10/2025 - F29X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
29	Upstream	F29X		22878

F29X_98031fc3-af66-4d90-8314-d916c44ec4f3_20251120_142201_856.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW15

F29X_c6789ac2-5bf9-43df-aa9f-c744bd57e938_20251120_142254_962.jpg, 00:00:14, 2.10 m
Finish node, other special chamber, reference: F29, WP

Section Inspection - 29/10/2025 - F30X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
30	1	29/10/25	12:49	Not Specified	No Rain Or Snow	No	F30X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

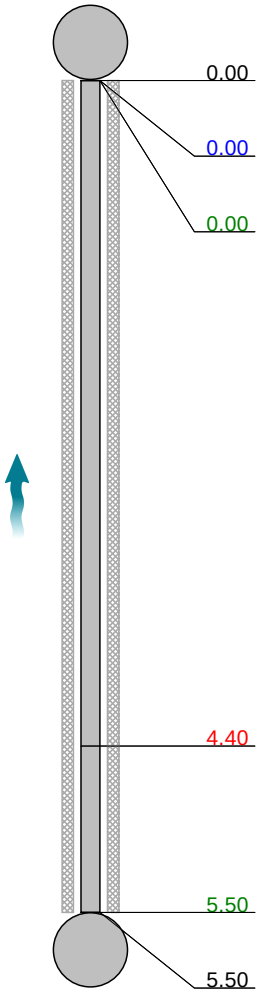
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	F30
Road:	Shirley Avenue	**Inspected Length:**	5.50 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.50 m	**Downstream Node:**	FW15
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.48 m
FW15



F30
Depth: 0.00 m

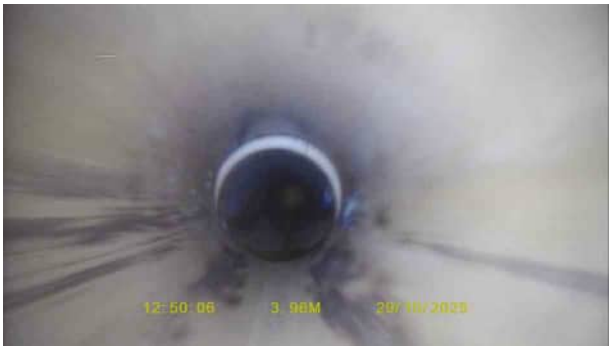
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW15	00:00:00	F30X_2214ed51-15aa-4e46-aa	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
4.40		JDL	Joint displaced, large	00:00:17	F30X_25466a79-dbe6-4cfb-8af	1 / 4
5.50	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:24		3
5.50		OCF	Finish node, other special chamber, reference: F30: WP	00:00:24	F30X_9c459517-e71a-4071-aa	

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	2.0	0.4	2.0	1.0	2	7.0	3.1	17.0	4.0

Section Pictures - 29/10/2025 - F30X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
30	Upstream	F30X		22878

F30X_2214ed51-15aa-4e46-aab5-35143f1f0843_20251120_142439_476.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW15



F30X_25466a79-dbe6-4cfb-8afa-e0c51efdd0e6_20251120_142507_728.jpg, 00:00:17, 4.40 m
Joint displaced, large

F30X_9c459517-e71a-4071-aa0a-1fc820f9a94f_20251120_142521_876.jpg, 00:00:24, 5.50 m
Finish node, other special chamber, reference: F30, WP

Section Inspection - 29/10/2025 - FW15X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
31	1	29/10/25	12:51	Not Specified	No Rain Or Snow	No	FW15X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

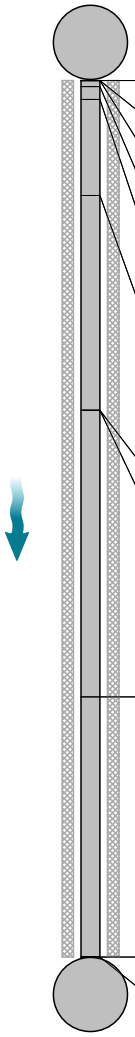
Town or Village:	Gomersal	**Inspection Direction:**	Downstream	**Upstream Node:**	FW15
Road:	Shirley Avenue	**Inspected Length:**	13.80 m	**Upstream Pipe Depth:**	0.520 m
Location:	Property or buildings	**Total Length:**	13.80 m	**Downstream Node:**	FW14
Surface Type:	Asphalt Footway	**Joint Length:**		**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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:119

Depth: 0.52 m
FW15



FW14
Depth: 0.48 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: FW15	00:00:00	FW15X_842db7ba-f857-4f86-9	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.10		JDM	Joint displaced, medium	00:00:00	FW15X_ec53d5a4-d240-470e-	1 / 3
0.30		JDM	Joint displaced, medium	00:00:02	FW15X_c47f3519-2aef-4f58-b	1 / 3
1.81		JDM	Joint displaced, medium	00:00:08	FW15X_5751b8b2-d548-4040-	1 / 3
5.20		JDM	Joint displaced, medium	00:00:18		1 / 3
5.20		WL	Water level, 10% of the vertical dimension	00:00:18		
9.70		CUW	Loss of vision, camera under water	00:00:25		
13.80	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:01		3
13.80		ICF	Finish node, inspection chamber, reference: FW14	00:01:01	FW15X_e75204ff-93de-43d6-b	

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
4	1.0	0.3	4.0	1.0	5	4.0	2.6	36.0	4.0

Section Pictures - 29/10/2025 - FW15X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
31	Downstream	FW15X		22878

FW15X_842db7ba-f857-4f86-9676-71779cf196c2_20251120_142648_489.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: FW15

FW15X_ec53d5a4-d240-470e-b5b4-b19574d2842b_20251120_142707_026.jpg, 00:00:00, 0.10 m
Joint displaced, medium

FW15X_c47f3519-2aef-4f58-b566-75b58edbaf86_20251120_142717_261.jpg, 00:00:02, 0.30 m
Joint displaced, medium

FW15X_5751b8b2-d548-4040-93d6-f1d89f78612b_20251120_142745_986.jpg, 00:00:08, 1.81 m
Joint displaced, medium

WinCan

Section Pictures - 29/10/2025 - FW15X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
31	Downstream	FW15X		22878

FW15X_e75204ff-93de-43d6-b12c-5e9c4a74d0ab_20251120
_142856_554.jpg, 00:01:01, 13.80 m
Finish node, inspection chamber, reference: FW14

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Project

Project Name:	Gomersal St Mary's Primary School_1
Project Description:	CCTV Drainage Survey_Surface Water
Project Number:	22878
Project Status:	Complete
Project Date:	28/10/2025
Inspection Standard:	MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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Gomersal St Mary's Primary School_1	22878	28/10/2025

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Gomersal St Mary's Primary School_1	22878	28/10/2025

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Project Information

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

Client

Company: London Borough of Waltham Forest
Department: Town Hall
Street: Fellowship Square
Town or City: Forest Road
County: London
Post Code: E17 4JF

Contractor

Company: EDI Surveys Ltd.
Contact: Nick Wright
Street: 163 Ranelagh Road
Town or City: Ipswich
County: Suffolk
Post Code: IP2 0AH
Phone: 01473 211222
Mobile: nickw@edisurveys.co.uk

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Project Information

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

Project Notes

A CCTV drainage survey was carried out at Gomersal St Mary's Primary School, Shirley Avenue, Gomersal, Cleckheaton, BD19 4NA

Please see EDI drawing;

22878_Topographic & Services Survey_Final.

Surface Water.

Overview.

SW1 - downstream to SW1A survey abandoned at 0.25m debris.

SW4 - upstream S9 survey abandoned at 3.95m traction.

SW6 - upstream to SW6A survey abandoned at 12.40m traction.

SW7 - upstream S15 survey abandoned at 21.70m silt & objects.

SW8 - upstream S17 survey abandoned at 8.65m silt.

SW9 - upstream S22 survey abandoned at 11.85m unable to navigate rise in pipe.

Comments & Conclusions.

For removal of silt, I recommend using a jet vac tanker where access allows, this can be carried out by EDI via quote request.

Thank you for using EDI Surveys Ltd.

Scoring Summary

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
7	SW7X	3	Cracks, spiral from 12 o'clock to 12 o'clock
14	SW8X	3	Fracture, circumferential at joint from 12 o'clock to 12 o'clock
27	S27X	3	Fracture, circumferential from 7 o'clock to 5 o'clock

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
1	SW1AX	5	Other obstacles, brick or masonry in invert from 5 o'clock to 7 o'clock, 30% cross-sectional area loss
2	SW3X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
3	SW4X	5	Other obstacles, brick or masonry in invert at 6 o'clock, 5% cross-sectional area loss
4	SW2X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
5	S5X	3	Multiple defects
6	SW6X	3	Multiple defects
7	SW7X	4	Multiple defects
8	SW5X	5	Other obstacles from 4 o'clock to 7 o'clock, 30% cross-sectional area loss
9	S9X	4	Joint displaced, large
10	SW12X	4	Multiple defects
11	SW6Y	3	Settled deposits, fine, 5% cross-sectional area loss, finish
12	SW6AX	3	Settled deposits, fine, 5% cross-sectional area loss, finish
13	S13X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
14	SW8X	4	Joint displaced, large
15	S15X	4	Joint displaced, large
16	S16X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
17	S17X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
18	SW9X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
19	SW11X	4	Joint displaced, large
20	SW10X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
21	S21X	3	Settled deposits, fine, 5% cross-sectional area loss, finish

Scoring Summary

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

Section	PLR	Grade	Description
22	S22X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
23	SW11AX	3	Settled deposits, fine, 5% cross-sectional area loss, finish
24	SW13X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
25	S25X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
26	S26X	4	Joint displaced, large
27	S27X	4	Settled deposits, coarse, 20% cross-sectional area loss, finish

Abandoned Surveys

Section	PLR	Description
1	SW1AX	Survey abandoned
9	S9X	Survey abandoned
12	SW6AX	Survey abandoned
15	S15X	Survey abandoned
17	S17X	Survey abandoned
22	S22X	Survey abandoned

Information

These scoring summaries are based on the SRM grading from the WRc.

EDI Surveys Ltd.
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Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

SW1 Cover

SW1

SW2 Cover

SW2

SW3 Cover

SW3

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Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

SW4 Cover

SW4

SW5 Cover

SW5

SW6

SW6 Cover

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Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

SW7

SW7 Cover

SW8 Cover

SW8

SW9 Cover

SW9

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Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

SW10 Cover

SW10 Cover

SW10

SW10

SW11 Cover

SW11

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Project Pictures

Project Name	Project Number	Project Date
Gomersal St Mary's Primary School_1	22878	28/10/2025

SW12 Cover

SW12

SW13 Cover

SW13

WinCan

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Section Inspection - 28/10/2025 - SW1AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	28/10/25	11:27	Not Specified	No Rain Or Snow	No	SW1AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW1A
Road:	Shirley Avenue	**Inspected Length:**	0.25 m	**Upstream Pipe Depth:**	1.390 m
Location:	Other location	**Total Length:**	0.25 m	**Downstream Node:**	SW1
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.550 m

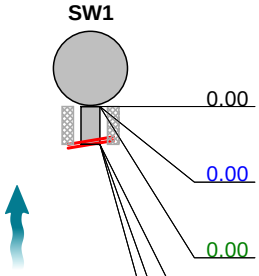
Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.55 m

SW1



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW1	00:00:00	S1X_0a31ed20-f51a-42e6-b7ab	
0.00		WL	Water level, 50% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:00		
0.25		OBB	Other obstacles, brick or masonry in invert from 5 o'clock to 7 o'clock, 30% cross-sectional area loss	00:00:03	S1X_f9988cf4-086b-4b6f-a43a-	5
0.25	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:17		4
0.25		SA	Survey abandoned: Debris	00:00:17	S1X_ccb87a47-8972-4be7-bc8	

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	15.0	60.0	15.0	5.0

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Section Pictures - 28/10/2025 - SW1AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	SW1AX		

S1X_0a31ed20-f51a-42e6-b7ab-3c21470abb48_20251105_145450_982.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW1

S1X_f9988cf4-086b-4b6f-a43a-42ab54f98484_20251105_145615_735.jpg, 00:00:03, 0.25 m
Other obstacles, brick or masonry in invert from 5 o'clock to 7 o'clock, 30% cross-sectional area loss

S1X_ccb87a47-8972-4be7-bc84-d2fdd4963a08_20251105_145756_969.jpg, 00:00:17, 0.25 m
Survey abandoned, Debris

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Section Inspection - 28/10/2025 - SW3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	28/10/25	12:53	Not Specified	No Rain Or Snow	No	SW3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

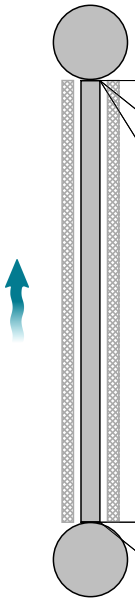
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW3
Road:	Shirley Avenue	**Inspected Length:**	2.92 m	**Upstream Pipe Depth:**	1.090 m
Location:	Other location	**Total Length:**	2.92 m	**Downstream Node:**	SW2
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.200 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.20 m
SW2



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW2	00:00:00	SW3X_a05e0fac-11ce-42d6-b	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
2.92	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:24		3
2.92		ICF	Finish node, inspection chamber, reference: SW3	00:00:24	SW3X_170cebc4-96fa-4958-a5	

SW3
Depth: 1.09 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**
2	1.0	0.7	2.0	1.0	3	4.0	3.4	10.0	4.0

Section Pictures - 28/10/2025 - SW3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	SW3X		

SW3X_a05e0fac-11ce-42d6-b2db-f76f16eb24ed_20251105_154402_714.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW2

SW3X_170cebc4-96fa-4958-a5b3-038a8b62cad0_20251105_154725_575.jpg, 00:00:24, 2.92 m
Finish node, inspection chamber, reference: SW3

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Section Inspection - 28/10/2025 - SW4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	28/10/25	12:54	Not Specified	No Rain Or Snow	No	SW4X

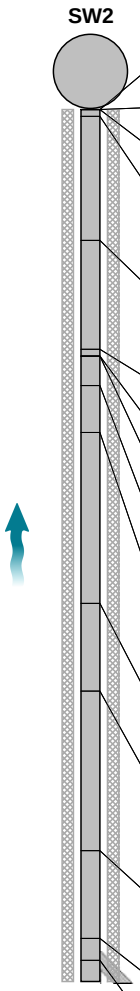
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW4
Road:	Shirley Avenue	**Inspected Length:**	12.90 m	**Upstream Pipe Depth:**	0.940 m
Location:	Other location	**Total Length:**	12.90 m	**Downstream Node:**	SW2
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.180 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:104 **Depth: 1.18 m**



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW2	00:00:00	SW4X_a1253e0d-fca4-4160-9f	
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:01		
0.10		OBB	Other obstacles, brick or masonry in invert at 6 o'clock, 5% cross-sectional area loss	00:00:01	SW4X_e6ad774e-b271-404a-9	5
1.80		JDM	Joint displaced, medium	00:00:11	SW4X_93ebfe04-d637-4380-8	1 / 3
3.30		JDM	Joint displaced, medium	00:00:22	SW4X_3e585ab9-7d0f-44ea-9d	1 / 3
3.40		LR	Line deviates right	00:00:22		
3.40		JDM	Joint displaced, medium	00:00:24	SW4X_ac15fd9d-b3cb-408d-9	1 / 3
3.80		JDL	Joint displaced, large	00:00:25	SW4X_0bff2009-5ac1-4039-91	1 / 4
4.45		JDL	Joint displaced, large	00:00:31	SW4X_fac33b99-32e3-441c-af5	1 / 4
6.80		JDM	Joint displaced, medium	00:01:43	SW4X_344ace52-f5a3-4b4e-a	1 / 3
8.00		JDM	Joint displaced, medium	00:01:49	SW4X_8bd068dc-e843-46f1-ba	1 / 3
10.20		JDM	Joint displaced, medium	00:02:02	SW4X_d7e1b6aa-48f1-4d97-97	1 / 3
11.40		JDL	Joint displaced, large	00:02:10	SW4X_0384d613-8e0b-4560-8	1 / 4
11.70		JN	Junction at 10 o'clock, 100mm dia	00:02:11		

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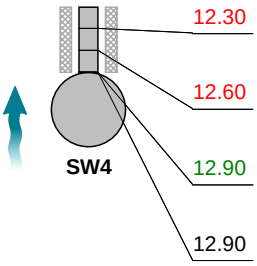
Section Inspection - 28/10/2025 - SW4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	28/10/25	12:54	Not Specified	No Rain Or Snow	No	SW4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:104



Depth: 0.94 m

Position [m]		Code	Observation	MPEG	Photo	Grade
12.30		JDM	Joint displaced, medium	00:02:12	SW4X_76ca052a-4878-4405-9	1 / 3
12.60		JDL	Joint displaced, large	00:02:16	SW4X_54b4b9d1-4c9e-44e8-9	1 / 4
12.90	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:02:20		3
12.90		ICF	Finish node, inspection chamber, reference: SW4	00:02:20	SW4X_58c1287e-d734-4c0e-a	

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
13	2.0	1.3	17.0	1.0	15	12.0	5.7	74.0	5.0

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Section Pictures - 28/10/2025 - SW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream	SW4X		

SW4X_a1253e0d-fca4-4160-9ff5-8b137770c5a2_20251105_155228_433.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW2

SW4X_e6ad774e-b271-404a-9e09-c6d9f9d401b7_20251105_155337_247.jpg, 00:00:01, 0.10 m
Other obstacles, brick or masonry in invert at 6 o'clock, 5% cross-sectional area loss

SW4X_93ebfe04-d637-4380-8188-10eb1cf44634_20251105_155848_749.jpg, 00:00:11, 1.80 m
Joint displaced, medium

SW4X_3e585ab9-7d0f-44ea-9d1d-10f6a8a65c99_20251105_160023_596.jpg, 00:00:22, 3.30 m
Joint displaced, medium

Section Pictures - 28/10/2025 - SW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream	SW4X		

SW4X_ac15fd9d-b3cb-408d-9338-c22110519835_20251105_160126_610.jpg, 00:00:24, 3.40 m
Joint displaced, medium

SW4X_0bff2009-5ac1-4039-917c-d5662af05af0_20251105_160209_044.jpg, 00:00:25, 3.80 m
Joint displaced, large

SW4X_fac33b99-32e3-441c-af58-b6fa2db43352_20251120_075201_800.jpg, 00:00:31, 4.45 m
Joint displaced, large

SW4X_344ace52-f5a3-4b4e-a2e0-49438cc7dd4b_20251105_160948_443.jpg, 00:01:43, 6.80 m
Joint displaced, medium

Section Pictures - 28/10/2025 - SW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream	SW4X		

SW4X_8bd068dc-e843-46f1-ba13-2a46c79e4690_20251105_161034_756.jpg, 00:01:49, 8.00 m
Joint displaced, medium

SW4X_d7e1b6aa-48f1-4d97-9785-92e518df6c6a_20251105_161238_563.jpg, 00:02:02, 10.20 m
Joint displaced, medium

SW4X_0384d613-8e0b-4560-8eaa-1ffee7734846_20251105_161316_891.jpg, 00:02:10, 11.40 m
Joint displaced, large

SW4X_76ca052a-4878-4405-91c2-da6a748b62bf_20251105_161536_485.jpg, 00:02:12, 12.30 m
Joint displaced, medium

Section Pictures - 28/10/2025 - SW4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream	SW4X		

SW4X_54b4b9d1-4c9e-44e8-9859-f4758c41a25c_20251105_161720_941.jpg, 00:02:16, 12.60 m
Joint displaced, large

SW4X_58c1287e-d734-4c0e-ab6d-237c6487005a_20251105_161810_084.jpg, 00:02:20, 12.90 m
Finish node, inspection chamber, reference: SW4

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Section Inspection - 28/10/2025 - SW2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	28/10/25	12:59	Not Specified	No Rain Or Snow	No	SW2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Downstream	**Upstream Node:**	SW2
Road:	Shirley Avenue	**Inspected Length:**	1.75 m	**Upstream Pipe Depth:**	1.270 m
Location:	Other location	**Total Length:**	1.75 m	**Downstream Node:**	SW2A
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.350 m

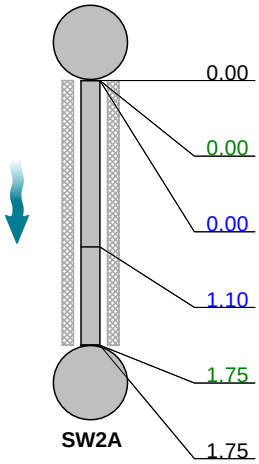
Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 1.27 m

SW2



SW2A

Depth: 1.35 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW2	00:00:00	SW2X_a3a8e977-5184-417f-b0	
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
1.10		WL	Water level, 10% of the vertical dimension	00:00:03		
1.75	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:31		3
1.75		ICF	Finish node, inspection chamber, reference: SW2A	00:00:31	SW2X_34623f42-b518-434d-a	

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	2.3	4.0	3.0

Section Pictures - 28/10/2025 - SW2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Downstream	SW2X		

SW2X_a3a8e977-5184-417f-b0ca-f8e21f3dd32b_20251111_142527_486.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW2

SW2X_34623f42-b518-434d-a126-2375565acc2f_20251111_142943_813.jpg, 00:00:31, 1.75 m
Finish node, inspection chamber, reference: SW2A

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Section Inspection - 28/10/2025 - S5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	28/10/25	14:03	Not Specified	No Rain Or Snow	No	S5X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

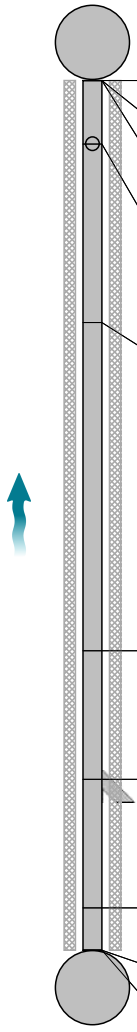
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S5
Road:	Shirley Avenue	**Inspected Length:**	6.10 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	6.10 m	**Downstream Node:**	SW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.890 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:53

Depth: 0.89 m
SW3



S5
Depth: 0.00 m

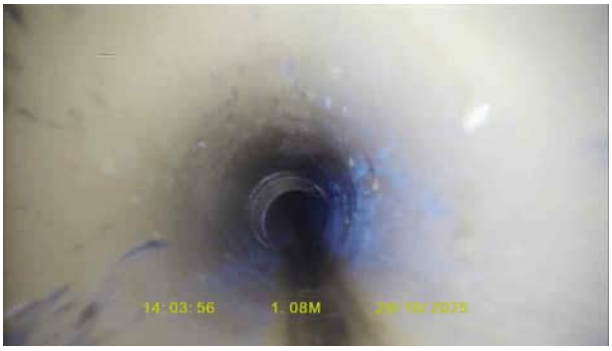
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW3	00:00:00	S4X_b22073b4-2a84-4581-9a4	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.45		JN	Junction at 12 o'clock, 100mm dia	00:00:00		
1.70		LU	Line deviates up	00:00:07	S4X_6d5067f4-d3fd-4022-8af4-	
4.00		JDM	Joint displaced, medium	00:00:16	S4X_9b052903-a3b1-4167-956	1 / 3
4.90		JN	Junction at 8 o'clock, 100mm dia	00:00:21		
5.80		LU	Line deviates up	00:00:27		
6.10	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:34		3
6.10		ICF	Finish node, inspection chamber, reference: S5	00:00:34		

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	0.2	1.0	1.0	2	4.0	2.6	16.0	4.0

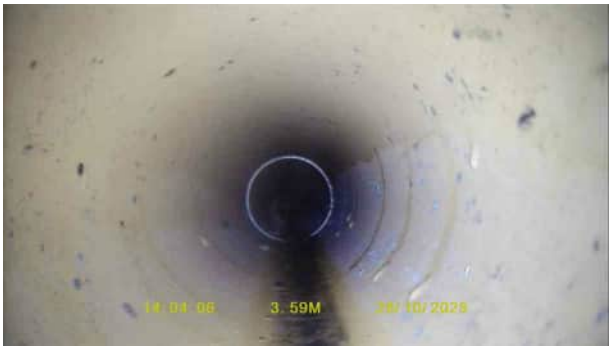
Section Pictures - 28/10/2025 - S5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Upstream	S5X		

S4X_b22073b4-2a84-4581-9a4e-1c72273a0279_20251112_120838_281.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW3



S4X_6d5067f4-d3fd-4022-8af4-fcdee841e3e4_20251112_121053_909.jpg, 00:00:07, 1.70 m
Line deviates up



S4X_9b052903-a3b1-4167-956a-5e1d06de5878_20251112_121130_284.jpg, 00:00:16, 4.00 m
Joint displaced, medium

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Section Inspection - 28/10/2025 - SW6X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	28/10/25	14:03	Not Specified	No Rain Or Snow	No	SW6X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

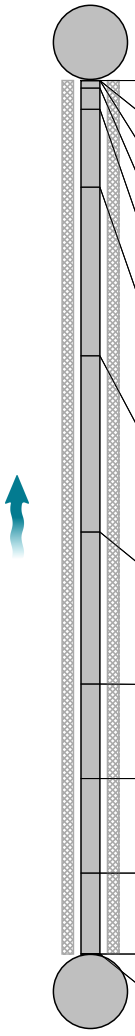
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW6
Road:	Shirley Avenue	**Inspected Length:**	21.27 m	**Upstream Pipe Depth:**	1.620 m
Location:	Other location	**Total Length:**	21.27 m	**Downstream Node:**	SW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.110 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:184

Depth: 1.11 m
SW3



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW3	00:00:00	SW6X_53792017-383f-4ada-a9	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.20		JDM	Joint displaced, medium	00:00:01	SW6X_cf6c720b-8193-4c25-82	1 / 3
0.70		JDM	Joint displaced, medium	00:00:03	SW6X_0dbe22f1-c6ad-4f60-88	1 / 3
2.60		JDM	Joint displaced, medium	00:00:08	SW6X_0364a2c1-1853-4d7a-9	1 / 3
6.70		JDM	Joint displaced, medium	00:00:22	SW6X_8156ae88-9333-4efd-bb	1 / 3
11.00		JDM	Joint displaced, medium	00:00:40	SW6X_9809e080-7b3f-46eb-94	1 / 3
14.70		JDM	Joint displaced, medium	00:00:57	SW6X_010c3b8e-ebd8-4f97-b7	1 / 3
17.00		JDM	Joint displaced, medium	00:01:17	SW6X_f108b99a-c7f9-4d56-80	1 / 3
19.30		JDM	Joint displaced, medium	00:01:28	SW6X_92c50ce9-9d5d-435c-8	1 / 3
21.27	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:59		3
21.27		OCF	Finish node, other special chamber, reference: SW6: Top point surveyed from upstream	00:01:59	SW6X_73dfd136-5809-4c06-b	

SW6
Depth: 1.62 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**
8	1.0	0.4	8.0	1.0	9	4.0	2.8	60.0	4.0

Section Pictures - 28/10/2025 - SW6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	SW6X		

SW6X_53792017-383f-4ada-a9e6-d599aa3ae927_20251112_125503_317.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW3

SW6X_cf6c720b-8193-4c25-8249-174885ec6e19_20251112_125747_867.jpg, 00:00:01, 0.20 m
Joint displaced, medium

SW6X_0dbe22f1-c6ad-4f60-8883-99275f9d9ee6_20251112_125843_407.jpg, 00:00:03, 0.70 m
Joint displaced, medium

SW6X_0364a2c1-1853-4d7a-90ea-fe45b66305ba_20251112_125949_646.jpg, 00:00:08, 2.60 m
Joint displaced, medium

Section Pictures - 28/10/2025 - SW6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	SW6X		

SW6X_8156ae88-9333-4efd-bb9c-f8500dd038ac_20251112_130129_689.jpg, 00:00:22, 6.70 m
Joint displaced, medium

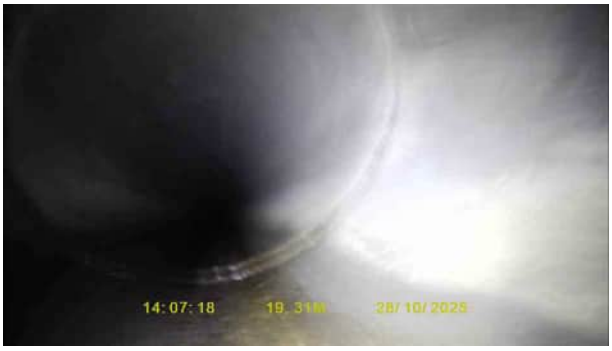
SW6X_9809e080-7b3f-46eb-9453-336645aa06d1_20251112_130252_993.jpg, 00:00:40, 11.00 m
Joint displaced, medium

SW6X_010c3b8e-ebd8-4f97-b7f4-cfd7704ee0b7_20251112_130710_801.jpg, 00:00:57, 14.70 m
Joint displaced, medium

SW6X_f108b99a-c7f9-4d56-80d3-ae6fcf5583d6_20251112_130822_026.jpg, 00:01:17, 17.00 m
Joint displaced, medium

Section Pictures - 28/10/2025 - SW6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	SW6X		



SW6X_92c50ce9-9d5d-435c-8de1-50a8ed6cc66f_20251112_131701_226.jpg, 00:01:28, 19.30 m
Joint displaced, medium

SW6X_73dfd136-5809-4c06-bdfd-8806bb1333eb_20251120_080354_563.jpg, 00:01:59, 21.27 m
Finish node, other special chamber, reference: SW6, To ppoint surveyed from upstream

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Section Inspection - 28/10/2025 - SW7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	28/10/25	14:09	Not Specified	No Rain Or Snow	No	SW7X

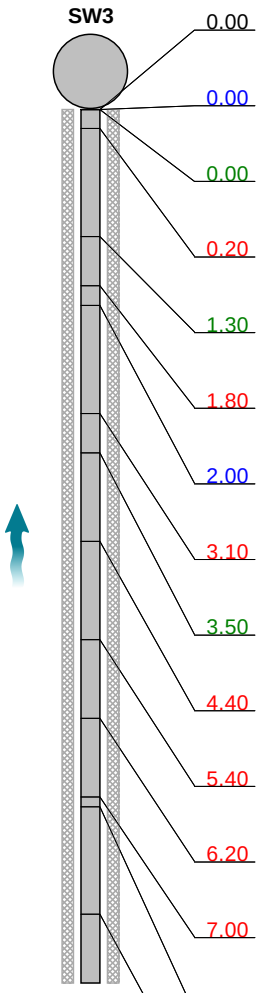
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW7
Road:	Shirley Avenue	**Inspected Length:**	12.00 m	**Upstream Pipe Depth:**	0.950 m
Location:	Other location	**Total Length:**	12.00 m	**Downstream Node:**	SW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.090 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:77 **Depth: 1.09 m**



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW3	00:00:00	SW7X_c3117112-ce26-44eb-a	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.20		JDM	Joint displaced, medium	00:00:00	SW7X_a791ce40-ffb1-4423-b4	1 / 3
1.30		LL	Line deviates left	00:00:05		
1.80		JDL	Joint displaced, large	00:00:06	SW7X_8cde98ef-dcf8-43ac-b0	1 / 4
2.00		WL	Water level, 10% of the vertical dimension	00:00:09		
3.10		JDM	Joint displaced, medium	00:00:13	SW7X_4fc16604-51e6-4740-b5f	1 / 3
3.50		DES	Settled deposits, fine, 15% cross-sectional area loss	00:00:15		3
4.40		JDM	Joint displaced, medium	00:00:18	SW7X_ddec846a-44d6-42c7-b	1 / 3
5.40		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:23	SW7X_ced3cadb-0bb5-4313-9	2 / 2
6.20		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:26	SW7X_079cd011-9634-4749-a	2 / 2
7.00		JDL	Joint displaced, large	00:00:30	SW7X_607232eb-aa84-48b9-8	1 / 4
7.10		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:00:30	SW7X_166bd7a7-3827-45ca-9	2 / 2
8.20		CS	Cracks, spiral from 12 o'clock to 12 o'clock	00:00:35	SW7X_caea7f4e-565c-40fa-83	3 / 2

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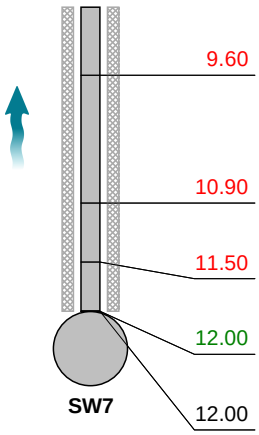
Section Inspection - 28/10/2025 - SW7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	28/10/25	14:09	Not Specified	No Rain Or Snow	No	SW7X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:77



Depth: 0.95 m

Position [m]		Code	Observation	MPEG	Photo	Grade
9.60		JDM	Joint displaced, medium	00:00:41	SW7X_3fc92219-8920-4a3a-a3	1 / 3
10.90		JDL	Joint displaced, large	00:00:47	SW7X_2c5e743a-e503-4b7b-9	1 / 4
11.50		JDM	Joint displaced, medium	00:00:49	SW7X_e8edcfe6-8ef0-4902-81	1 / 3
12.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:52		3
12.00		ICF	Finish node, inspection chamber, reference: SW7	00:00:52	SW7X_35323b36-64ec-4426-a	

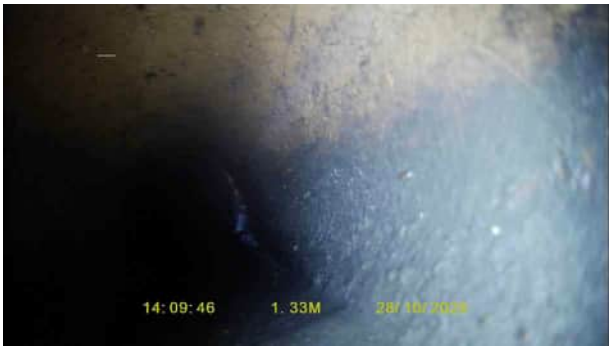
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
16	40.0	7.3	87.0	3.0	18	7.0	5.8	69.0	5.0

Section Pictures - 28/10/2025 - SW7X

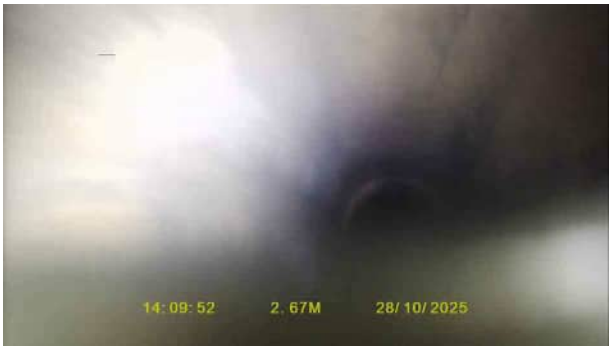
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	SW7X		

SW7X_c3117112-ce26-44eb-a9a9-9499ff4f2f62_20251112_132555_864.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW3

SW7X_a791ce40-ffb1-4423-b40c-b3869c745efc_20251112_132819_891.jpg, 00:00:00, 0.20 m
Joint displaced, medium



SW7X_8cde98ef-dcf8-43ac-b0e6-0aa8b5c4d3ea_20251112_144724_058.jpg, 00:00:06, 1.80 m
Joint displaced, large



SW7X_4fc16604-51e6-4740-b5f3-8dba510fab5d_20251112_144910_050.jpg, 00:00:13, 3.10 m
Joint displaced, medium

Section Pictures - 28/10/2025 - SW7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	SW7X		

SW7X_ddec846a-44d6-42c7-b6b0-1c121ad126d2_20251112_145057_336.jpg, 00:00:18, 4.40 m
Joint displaced, medium

SW7X_ced3cadb-0bb5-4313-9763-cc7a7c42bef9_20251112_145649_468.jpg, 00:00:23, 5.40 m
Crack, circumferential from 12 o'clock to 12 o'clock

SW7X_079cd011-9634-4749-aeb6-94febc0fdc26_20251112_145956_410.jpg, 00:00:26, 6.20 m
Crack, circumferential from 12 o'clock to 12 o'clock

SW7X_607232eb-aa84-48b9-8e56-52da56959268_20251112_150450_649.jpg, 00:00:30, 7.00 m
Joint displaced, large

Section Pictures - 28/10/2025 - SW7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	SW7X		

SW7X_166bd7a7-3827-45ca-9213-111b38a73bc2_20251112_150617_885.jpg, 00:00:30, 7.10 m
Crack, circumferential from 12 o'clock to 12 o'clock

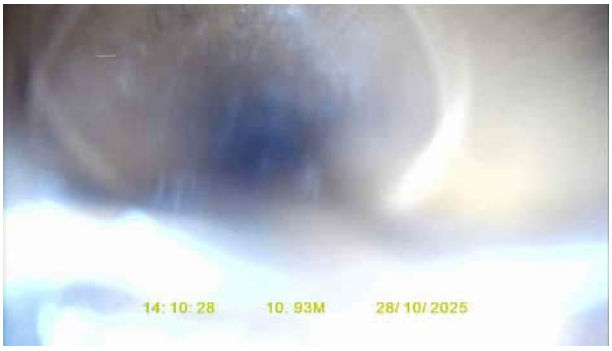
SW7X_caea7f4e-565c-40fa-838f-788255641e35_20251112_150945_664.jpg, 00:00:35, 8.20 m
Cracks, spiral from 12 o'clock to 12 o'clock

SW7X_3fc92219-8920-4a3a-a375-ff03a9f21cbc_20251112_152551_534.jpg, 00:00:41, 9.60 m
Joint displaced, medium

SW7X_2c5e743a-e503-4b7b-9c62-5ce043e88d00_20251112_153020_408.jpg, 00:00:47, 10.90 m
Joint displaced, large

Section Pictures - 28/10/2025 - SW7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	SW7X		



SW7X_e8edcfe6-8ef0-4902-81ae-3bac1123c90b_20251112_153137_115.jpg, 00:00:49, 11.50 m
Joint displaced, medium

SW7X_35323b36-64ec-4426-a42f-338b75261169_20251112_153424_420.jpg, 00:00:52, 12.00 m
Finish node, inspection chamber, reference: SW7

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Section Inspection - 28/10/2025 - SW5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	28/10/25	14:36	Not Specified	No Rain Or Snow	No	SW5X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

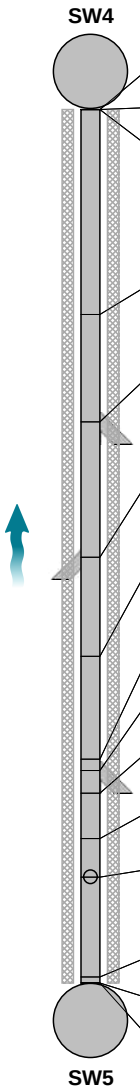
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW5
Road:	Shirley Avenue	**Inspected Length:**	23.00 m	**Upstream Pipe Depth:**	0.820 m
Location:	Other location	**Total Length:**	23.00 m	**Downstream Node:**	SW4
Surface Type:	Grass	**Joint Length:**		**Downstream Pipe Depth:**	0.940 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:199

Depth: 0.94 m



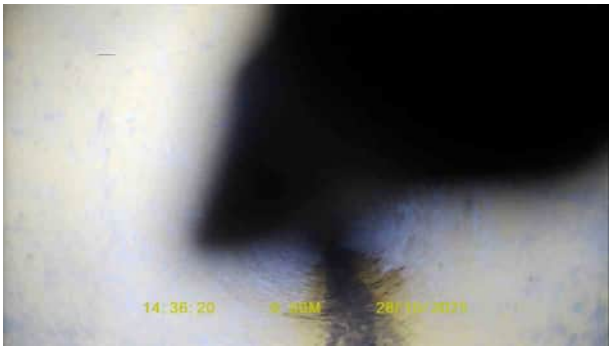
Depth: 0.82 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW4	00:00:00	SW5X_06903113-546c-459d-b	
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:01		
5.40		JDM	Joint displaced, medium	00:00:54	SW5X_692a298b-7fe1-42d5-b	1 / 3
8.23		JN	Junction at 10 o'clock, 150mm dia	00:01:06		
11.80		JN	Junction at 2 o'clock, 150mm dia	00:01:19		
14.40		WL	Water level, 30% of the vertical dimension	00:01:29	SW5X_db62401e-328e-4946-b	
17.10		WL	Water level, 5% of the vertical dimension	00:01:41		
17.40		JN	Junction at 11 o'clock, 150mm dia	00:01:42		
18.00		WL	Water level, 25% of the vertical dimension	00:01:46		
19.20		WL	Water level, 5% of the vertical dimension	00:01:52		
20.20		JN	Junction at 12 o'clock, 150mm dia	00:01:56		
22.84		OBZ	Other obstacles from 4 o'clock to 7 o'clock, 30% cross-sectional area loss: Stone	00:02:09	SW5X_3e7b5437-ea38-4261-9	5
23.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:02:20		3
23.00		ICF	Finish node, inspection chamber, reference: SW5: Blocked	00:02:20	SW5X_616cdb56-87db-4ce4-a	

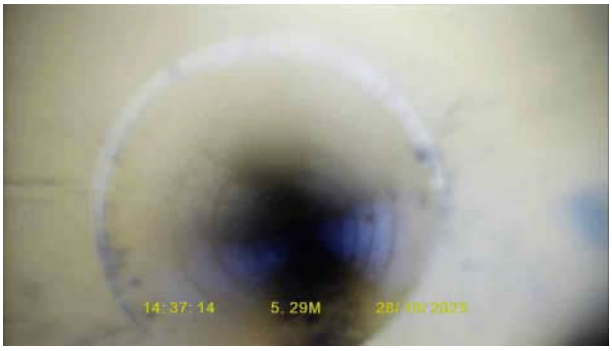
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	1.0	0.0	1.0	1.0	3	12.0	2.5	58.0	5.0

Section Pictures - 28/10/2025 - SW5X

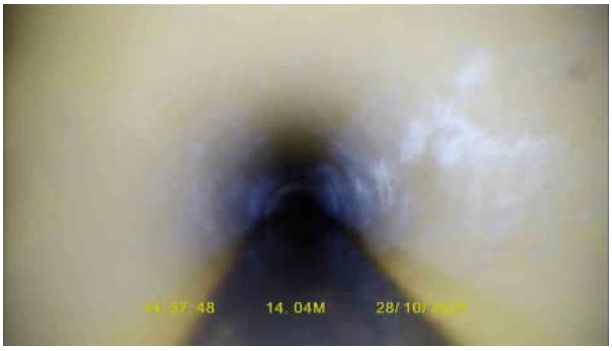
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	SW5X		



SW5X_06903113-546c-459d-b78c-46fcdb59ec74_20251113_085908_306.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW4



SW5X_692a298b-7fe1-42d5-bdc9-f98913986d22_20251113_090120_904.jpg, 00:00:54, 5.40 m
Joint displaced, medium



SW5X_db62401e-328e-4946-b53c-390c227c1f6d_20251113_090617_144.jpg, 00:01:29, 14.40 m
Water level, 30% of the vertical dimension

SW5X_3e7b5437-ea38-4261-92ad-733ec5189c63_20251113_091355_644.jpg, 00:02:09, 22.84 m
Other obstacles from 4 o'clock to 7 o'clock, 30% cross-sectional area loss, Stone

Section Pictures - 28/10/2025 - SW5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	SW5X		

SW5X_616cdb56-87db-4ce4-a5ad-02f2ea750538_20251113_091828_642.jpg, 00:02:20, 23.00 m
Finish node, inspection chamber, reference: SW5, Blocked

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Section Inspection - 28/10/2025 - S9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	28/10/25	15:06	Not Specified	No Rain Or Snow	No	S9X

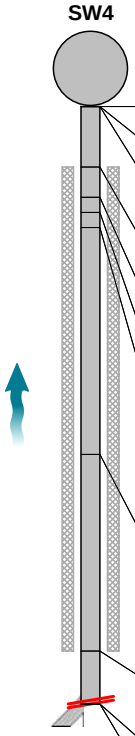
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S9
Road:	Shirley Avenue	**Inspected Length:**	3.95 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	3.95 m	**Downstream Node:**	SW4
Surface Type:	Grass	**Joint Length:**		**Downstream Pipe Depth:**	0.910 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50 **Depth:** 0.91 m

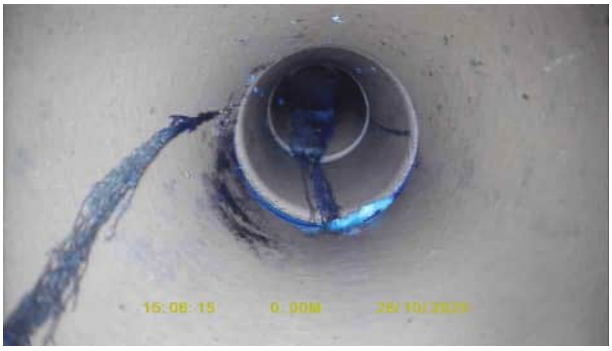


Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW4	00:00:00	S9X_fa678cbf-a974-46c5-866b	
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
0.00		LU	Line deviates up	00:00:01		
0.40	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:09		
0.60		JDM	Joint displaced, medium	00:00:09	S9X_51322b8a-ae6d-43bd-963	1 / 3
0.70	C01	DES	Settled deposits, fine, 5% cross-sectional area loss, change	00:00:14		
0.80		JDM	Joint displaced, medium	00:00:14	S9X_cac218d6-5050-4ac9-95a	1 / 3
2.30		JDL	Joint displaced, large	00:00:28	S9X_97ca466d-3700-4bab-a42	1 / 4
3.60	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:52		3
3.95		JN	Junction at 3 o'clock, 100mm dia	00:00:46		
3.95		SA	Survey abandoned: Traction	00:00:52	S9X_efdc2c65-5616-4b7f-85c4-	

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
3	2.0	1.0	4.0	1.0	4	7.0	4.3	17.0	4.0

Section Pictures - 28/10/2025 - S9X

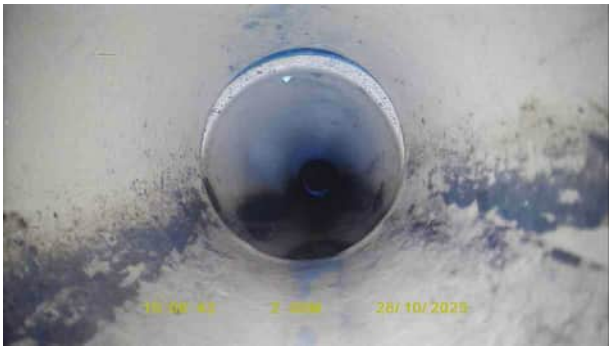
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Upstream	S9X		



S9X_fa678cbf-a974-46c5-866b-446f494476a9_20251120_082716_754.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW4

S9X_51322b8a-ae6d-43bd-9632-2d49537fac94_20251120_082840_553.jpg, 00:00:09, 0.60 m
Joint displaced, medium

S9X_cac218d6-5050-4ac9-95ae-9cfbb463f60c_20251120_082837_710.jpg, 00:00:14, 0.80 m
Joint displaced, medium



S9X_97ca466d-3700-4bab-a420-730985d1a01e_20251120_082906_169.jpg, 00:00:28, 2.30 m
Joint displaced, large

Section Pictures - 28/10/2025 - S9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Upstream	S9X		

S9X_efdc2c65-5616-4b7f-85c4-15e11c5daba4_20251120_083101_697.jpg, 00:00:52, 3.95 m
Survey abandoned, Traction

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Section Inspection - 28/10/2025 - SW12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	28/10/25	15:36	Not Specified	No Rain Or Snow	No	SW12X

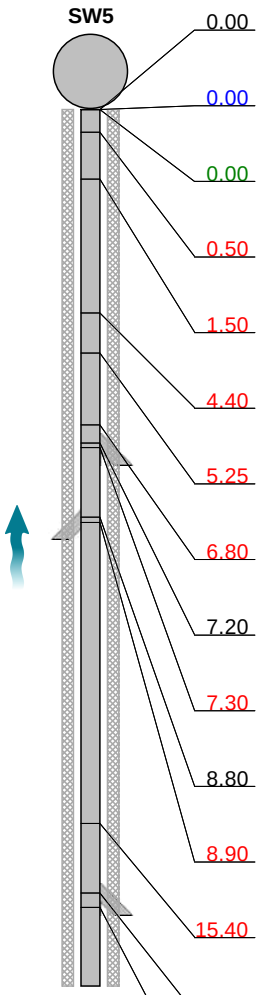
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW12
Road:	Shirley Avenue	**Inspected Length:**	23.20 m	**Upstream Pipe Depth:**	0.540 m
Location:	Other location	**Total Length:**	23.20 m	**Downstream Node:**	SW5
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.820 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:163 **Depth: 0.82 m**



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW5	00:00:00	SW12X_6eee9148-6847-487b-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.50		JDM	Joint displaced, medium	00:00:00		1 / 3
1.50		JDL	Joint displaced, large	00:00:09	SW12X_96fb588a-1667-4c2e-	1 / 4
4.40		JDM	Joint displaced, medium	00:00:20		1 / 3
5.25		JDM	Joint displaced, medium	00:00:25	SW12X_3930fb8c-112a-4c4a-	1 / 3
6.80		JDL	Joint displaced, large	00:00:31	SW12X_bd5a758e-b7a6-44c0-	1 / 4
7.20		JN	Junction at 10 o'clock, 100mm dia	00:00:31	SW12X_5f054c98-6d0b-4e9d-8	
7.30		JDM	Joint displaced, medium	00:00:31	SW12X_708f9320-0168-4373-	1 / 3
8.80		JN	Junction at 2 o'clock, 100mm dia	00:00:38	SW12X_fb8a7d7c-65b0-471f-9e	
8.90		JDM	Joint displaced, medium	00:00:38	SW12X_5227fff9-69f8-4cdc-84	1 / 3
15.40		JDL	Joint displaced, large	00:01:08	SW12X_8d7be753-3f9e-4866-9	1 / 4
16.90		JN	Junction at 10 o'clock, 100mm dia	00:01:16	SW12X_3df444a8-75e0-4842-	
17.20		JDM	Joint displaced, medium	00:01:16		1 / 3

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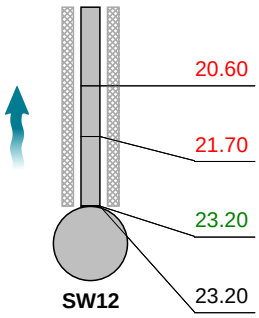
Section Inspection - 28/10/2025 - SW12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	28/10/25	15:36	Not Specified	No Rain Or Snow	No	SW12X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:163



Depth: 0.54 m

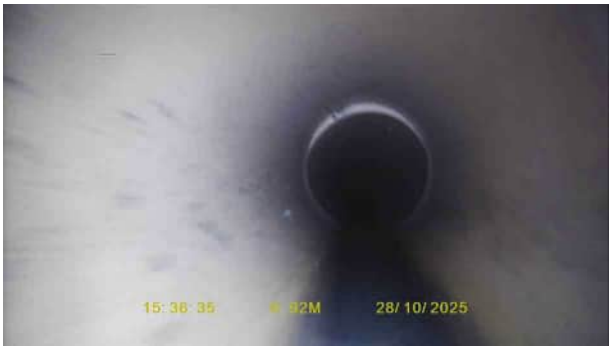
Position [m]		Code	Observation	MPEG	Photo	Grade
20.60		JDL	Joint displaced, large	00:01:35	SW12X_72768685-8605-4339-	1 / 4
21.70		JDL	Joint displaced, large	00:01:41	SW12X_a758d0b9-8bcb-4146-	1 / 4
23.20	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:53		3
23.20		ICF	Finish node, inspection chamber, reference: SW12	00:01:53	SW12X_10a9af65-877c-4be1-	

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
11	2.0	0.7	16.0	1.0	12	7.0	3.7	85.0	4.0

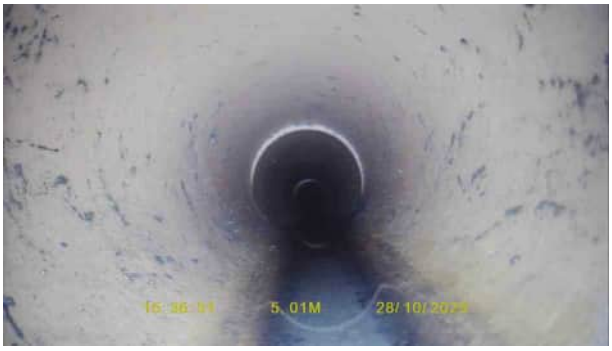
Section Pictures - 28/10/2025 - SW12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Upstream	SW12X		

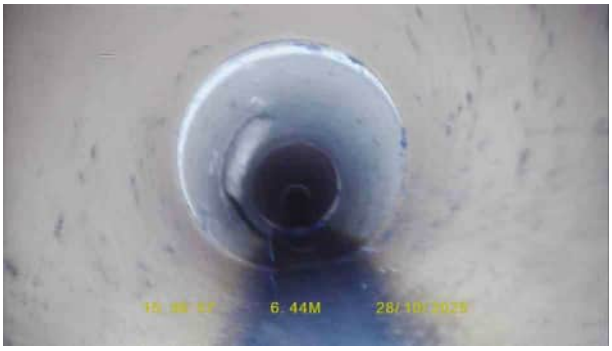
SW12X_6eee9148-6847-487b-a1e0-3181cf1758f7_20251120_092806_124.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW5



SW12X_96fb588a-1667-4c2e-b999-3e0be02166de_20251120_092847_013.jpg, 00:00:09, 1.50 m
Joint displaced, large



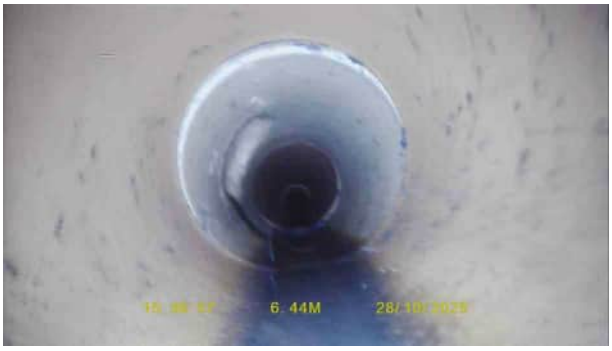
SW12X_3930fb8c-112a-4c4a-978d-c214271d1fcf_20251120_092927_788.jpg, 00:00:25, 5.25 m
Joint displaced, medium



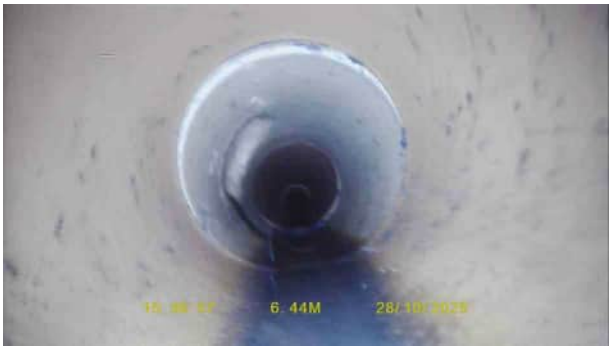
SW12X_bd5a758e-b7a6-44c0-a9df-91213b054292_20251120_092950_452.jpg, 00:00:31, 6.80 m
Joint displaced, large

Section Pictures - 28/10/2025 - SW12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Upstream	SW12X		



SW12X_5f054c98-6d0b-4e9d-89e7-fa1ef2c20a09_20251120_093010_442.jpg, 00:00:31, 7.20 m
Junction at 10 o'clock, 100mm dia



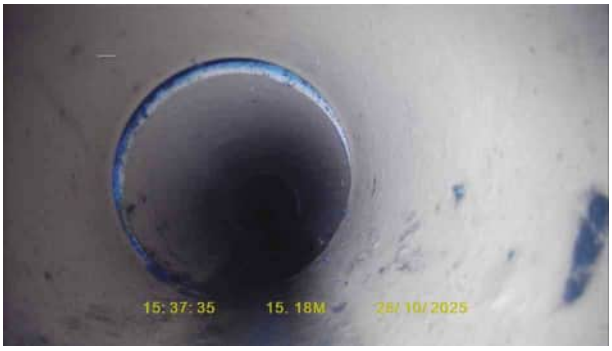
SW12X_708f9320-0168-4373-bc60-1342c6975554_20251120_093025_331.jpg, 00:00:31, 7.30 m
Joint displaced, medium

SW12X_fb8a7d7c-65b0-471f-9efa-942eb8d63659_20251120_093051_596.jpg, 00:00:38, 8.80 m
Junction at 2 o'clock, 100mm dia

SW12X_5227fff9-69f8-4cdc-843a-ac71f5b850f6_20251120_093106_165.jpg, 00:00:38, 8.90 m
Joint displaced, medium

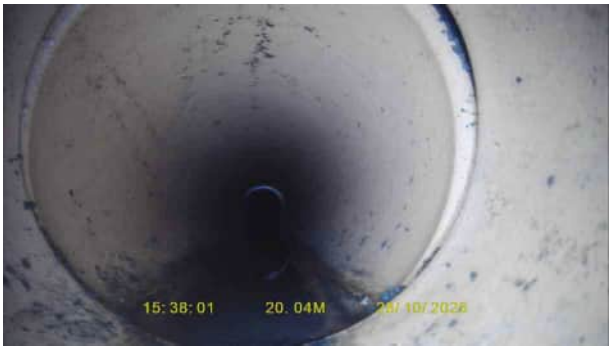
Section Pictures - 28/10/2025 - SW12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Upstream	SW12X		



SW12X_8d7be753-3f9e-4866-9b10-7fc5ceb2eb34_20251120_093130_948.jpg, 00:01:08, 15.40 m
Joint displaced, large

SW12X_3df444a8-75e0-4842-b82c-ee14bf831cbe_20251120_093200_235.jpg, 00:01:16, 16.90 m
Junction at 10 o'clock, 100mm dia



SW12X_72768685-8605-4339-8f75-d89f975df9ab_20251120_093245_058.jpg, 00:01:35, 20.60 m
Joint displaced, large

SW12X_a758d0b9-8bcb-4146-9748-1725cf15742c_20251120_093303_228.jpg, 00:01:41, 21.70 m
Joint displaced, large

Section Pictures - 28/10/2025 - SW12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Upstream	SW12X		

SW12X_10a9af65-877c-4be1-a05f-d63aad36dc11_20251120
_093321_255.jpg, 00:01:53, 23.20 m
Finish node, inspection chamber, reference: SW12

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Section Inspection - 29/10/2025 - SW6Y

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	29/10/25	9:35	Not Specified	No Rain Or Snow	No	SW6Y

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

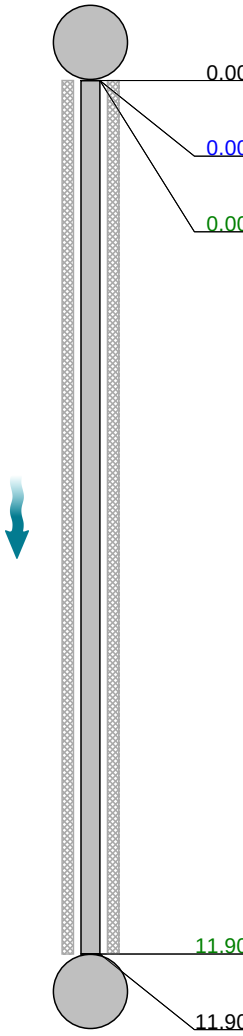
Town or Village:	Gomersal	**Inspection Direction:**	Downstream	**Upstream Node:**	SW6
Road:	Shirley Avenue	**Inspected Length:**	11.90 m	**Upstream Pipe Depth:**	1.620 m
Location:	Other location	**Total Length:**	11.90 m	**Downstream Node:**	SW3
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.110 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:103

Depth: 1.62 m
SW6



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW6	00:00:00	SW6Y_8c 404b73-8c 0d-4194-a	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
11.90	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:10		3
11.90		OCF	Finish node, other special chamber, reference: SW3: To point reached from downstream	00:01:10		

SW3
Depth: 1.11 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	2.0	24.0	3.0

Section Pictures - 29/10/2025 - SW6Y

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Downstream	SW6Y		

SW6Y_8c404b73-8c0d-4194-a29a-3f47f3cf082a_20251120_103116_661.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW6

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Section Inspection - 29/10/2025 - SW6AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	29/10/25	9:40	Not Specified	No Rain Or Snow	No	SW6AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW6A
Road:	Shirley Avenue	**Inspected Length:**	12.40 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	12.40 m	**Downstream Node:**	SW6
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	1.600 m

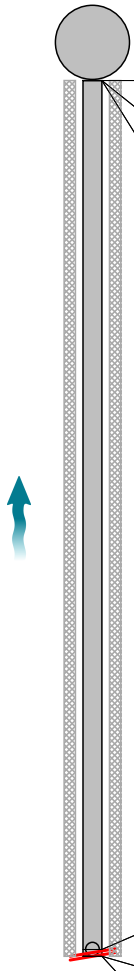
Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:107

Depth: 1.60 m

SW6

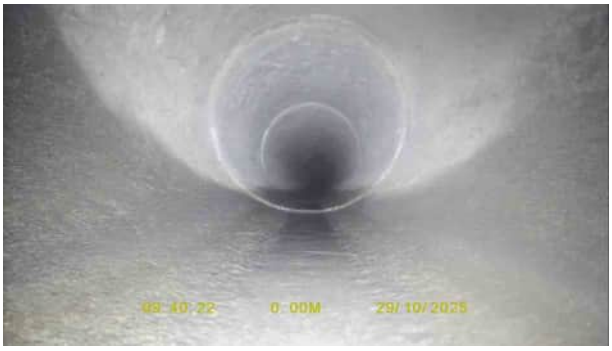


Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW6	00:00:00	SW6AX_94a35ebe-12e2-4b94-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
12.30		JN	Junction at 12 o'clock, 150mm dia	00:03:10	SW6AX_1cc8c72f-c0d6-49d5-a	
12.40	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:03:10		3
12.40		SA	Survey abandoned: Traction	00:03:10	SW6AX_9839222a-57af-4c83-a	

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	2.1	26.0	3.0

Section Pictures - 29/10/2025 - SW6AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	SW6AX		



SW6AX_94a35ebe-12e2-4b94-9e8f-4559e47e3013_20251120_104436_067.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW6

SW6AX_1cc8c72f-c0d6-49d5-a373-936b8f36c9aa_20251120_104523_188.jpg, 00:03:10, 12.30 m
Junction at 12 o'clock, 150mm dia

SW6AX_9839222a-57af-4c83-aab5-e550e588e05e_20251120_104538_865.jpg, 00:03:10, 12.40 m
Survey abandoned, Traction

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Section Inspection - 29/10/2025 - S13X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	29/10/25	9:56	Not Specified	No Rain Or Snow	No	S13X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

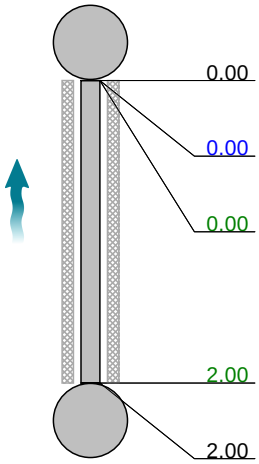
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S13
Road:	Shirley Avenue	**Inspected Length:**	2.00 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	2.00 m	**Downstream Node:**	SW7
Surface Type:	Paving Slabs	**Joint Length:**		**Downstream Pipe Depth:**	0.640 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.64 m
SW7



S13
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW7	00:00:00	S13X_ebc9fef7-e626-4fdb-8e4f-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
2.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:23		3
2.00		GYF	Finish node, gully, reference: S13	00:00:23	S13X_f88964cd-6c1d-4bfe-8f6	

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	2.0	4.0	3.0

Section Pictures - 29/10/2025 - S13X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Upstream	S13X		

S13X_ebc9fef7-e626-4fdb-8e4f-f7819504d956_20251120_105632_720.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW7

S13X_f88964cd-6c1d-4bfe-8f6a-15d20cdbcddd_20251120_105805_788.jpg, 00:00:23, 2.00 m
Finish node, gully, reference: S13

WinCan

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Section Inspection - 29/10/2025 - SW8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	29/10/25	9:58	Not Specified	No Rain Or Snow	No	SW8X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

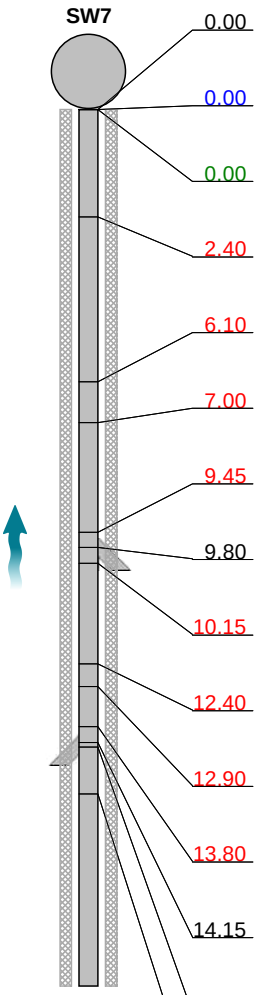
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW8
Road:	Shirley Avenue	**Inspected Length:**	23.90 m	**Upstream Pipe Depth:**	0.950 m
Location:	Other location	**Total Length:**	23.90 m	**Downstream Node:**	SW7
Surface Type:	Paving Slabs	**Joint Length:**		**Downstream Pipe Depth:**	0.950 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:169

Depth: 0.95 m



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW7	00:00:00	SW8X_f0bbc4b9-6752-400e-8d	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
2.40		JDM	Joint displaced, medium	00:00:06	SW8X_7c4436a6-c99b-4f92-9f	1 / 3
6.10		JDM	Joint displaced, medium	00:00:21	SW8X_9f9d6bec-d13b-491e-9f7	1 / 3
7.00		FCJ	Fracture, circumferential at joint from 12 o'clock to 12 o'clock	00:00:27	SW8X_106a91c9-6d69-4953-8	3 / 2
9.45		JDM	Joint displaced, medium	00:00:42	SW8X_5b396e00-757a-4ef4-95	1 / 3
9.80		JN	Junction at 10 o'clock, 100mm dia	00:00:42	SW8X_3fc23be3-2b08-4801-9c	
10.15		JDM	Joint displaced, medium	00:00:45	SW8X_afbda8f2-88bc-4c1a-88	1 / 3
12.40		JDM	Joint displaced, medium	00:00:54	SW8X_6b7aa3e6-624d-43c7-a	1 / 3
12.90		CC	Crack, circumferential from 12 o'clock to 12 o'clock	00:01:00	SW8X_1e420b4b-68cd-4a27-b	2 / 2
13.80		JDL	Joint displaced, large	00:01:05	SW8X_69134f3b-dfb0-48c4-a6	1 / 4
14.15		JN	Junction at 3 o'clock, 100mm dia	00:01:05	SW8X_4de8e657-5545-49fc-8a	
14.25		JDM	Joint displaced, medium	00:01:07	SW8X_48ac1778-fd06-46a2-8	1 / 3
15.30		JDM	Joint displaced, medium	00:01:15	SW8X_93aa7956-1ba5-4f73-83	1 / 3

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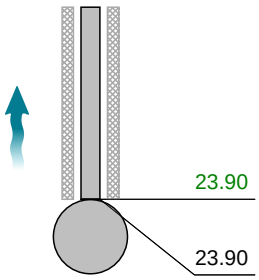
Section Inspection - 29/10/2025 - SW8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	29/10/25	9:58	Not Specified	No Rain Or Snow	No	SW8X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Scale: 1:169



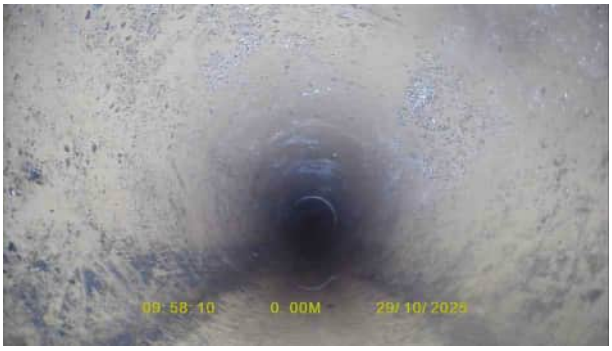
SW8
Depth: 0.95 m

Position [m]		Code	Observation	MPEG	Photo	Grade
23.90	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:02:21		3
23.90		ICF	Finish node, inspection chamber, reference: SW8	00:02:21	SW8X_7c8a03f6-9105-4766-9	

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
10	40.0	2.5	59.0	3.0	11	7.0	2.9	69.0	4.0

Section Pictures - 29/10/2025 - SW8X

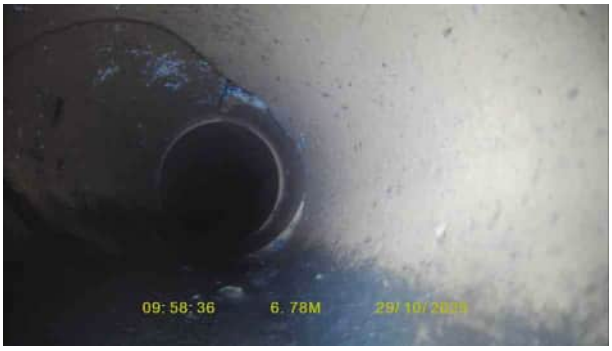
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Upstream	SW8X		



SW8X_f0bbc4b9-6752-400e-8d04-b5a69aaa9cdf_20251120_110140_023.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW7

SW8X_7c4436a6-c99b-4f92-9f0b-8304691609a5_20251120_110306_556.jpg, 00:00:06, 2.40 m
Joint displaced, medium

SW8X_9f9d6bec-d13b-491e-9f74-bff07f54fa4e_20251120_110401_438.jpg, 00:00:21, 6.10 m
Joint displaced, medium



SW8X_106a91c9-6d69-4953-8b4d-d6b8dc7cecda_20251120_110445_438.jpg, 00:00:27, 7.00 m
Fracture, circumferential at joint from 12 o'clock to 12 o'clock

Section Pictures - 29/10/2025 - SW8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Upstream	SW8X		

SW8X_5b396e00-757a-4ef4-95ff-217183f3c178_20251120_110537_298.jpg, 00:00:42, 9.45 m
Joint displaced, medium

SW8X_3fc23be3-2b08-4801-9c69-1d78eab7c3cf_20251120_110556_141.jpg, 00:00:42, 9.80 m
Junction at 10 o'clock, 100mm dia

SW8X_afbda8f2-88bc-4c1a-889e-648277c45fe1_20251120_110621_345.jpg, 00:00:45, 10.15 m
Joint displaced, medium

SW8X_6b7aa3e6-624d-43c7-a01f-2c84c24d9417_20251120_111340_944.jpg, 00:00:54, 12.40 m
Joint displaced, medium

Section Pictures - 29/10/2025 - SW8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Upstream	SW8X		

SW8X_1e420b4b-68cd-4a27-bdd6-f47a0e51f55b_20251120_111411_622.jpg, 00:01:00, 12.90 m
Crack, circumferential from 12 o'clock to 12 o'clock

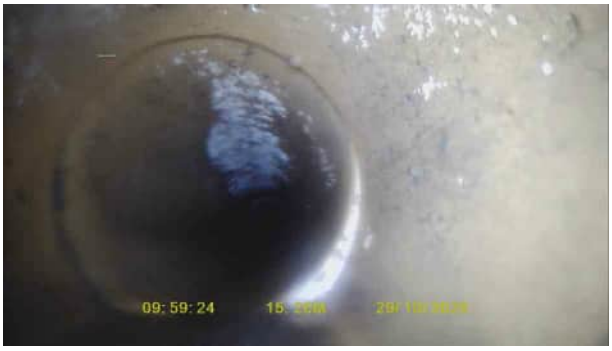
SW8X_69134f3b-dfb0-48c4-a638-60a7a5ee793f_20251120_112009_894.jpg, 00:01:05, 13.80 m
Joint displaced, large

SW8X_4de8e657-5545-49fc-8a57-f15be91d021d_20251120_112035_248.jpg, 00:01:05, 14.15 m
Junction at 3 o'clock, 100mm dia

SW8X_48ac1778-fd06-46a2-8c1f-0e6059bf6c79_20251120_112056_486.jpg, 00:01:07, 14.25 m
Joint displaced, medium

Section Pictures - 29/10/2025 - SW8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Upstream	SW8X		



SW8X_93aa7956-1ba5-4f73-835e-ec182103cecd_20251120_112115_010.jpg, 00:01:15, 15.30 m
Joint displaced, medium

SW8X_7c8a03f6-9105-4766-9955-cb7ec52c0436_20251120_112205_230.jpg, 00:02:21, 23.90 m
Finish node, inspection chamber, reference: SW8

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Section Inspection - 29/10/2025 - S15X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	29/10/25	10:05	Not Specified	No Rain Or Snow	No	S15X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

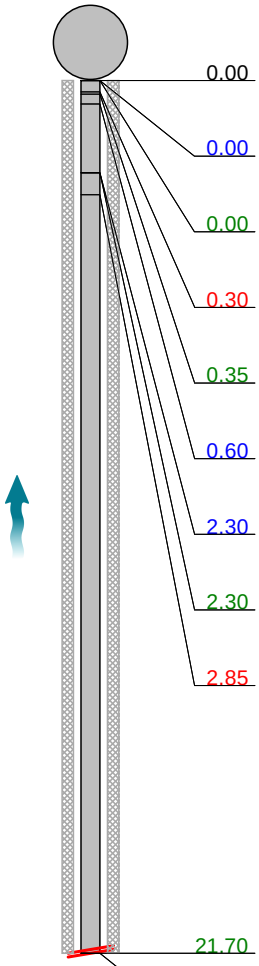
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S15
Road:	Shirley Avenue	**Inspected Length:**	21.70 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	21.70 m	**Downstream Node:**	SW7
Surface Type:	Paving Slabs	**Joint Length:**		**Downstream Pipe Depth:**	0.910 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:188

Depth: 0.91 m
SW7



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW7	00:00:00	S15X_9fd4bcaa-79a4-4037-b7f	
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:00		
0.30		JDM	Joint displaced, medium	00:00:00	S15X_3a5e1c1c-1ba4-4a48-b1	1 / 3
0.35	C01	DES	Settled deposits, fine, 35% cross-sectional area loss, change	00:00:03		
0.60		WL	Water level, 15% of the vertical dimension	00:00:06		
2.30		WL	Water level, 10% of the vertical dimension	00:00:17		
2.30		DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:17		3
2.85		JDL	Joint displaced, large	00:00:17	S15X_55d7f610-1805-4625-aa	1 / 4
21.70	F01	DES	Settled deposits, fine, 35% cross-sectional area loss, finish	00:01:43		3
21.70		SA	Survey abandoned: Silt & objects	00:01:43	S15X_abfa47d0-0b22-45b1-b5	

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**
2	2.0	0.1	3.0	1.0	4	7.0	2.4	53.0	4.0

Section Pictures - 29/10/2025 - S15X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
15	Upstream	S15X		

S15X_9fd4bcaa-79a4-4037-b7f6-ca040c1902e6_20251120_112744_318.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW7

S15X_3a5e1c1c-1ba4-4a48-b102-4824188774b1_20251120_112808_203.jpg, 00:00:00, 0.30 m
Joint displaced, medium

S15X_55d7f610-1805-4625-aa96-faa487de34b9_20251120_112929_534.jpg, 00:00:17, 2.85 m
Joint displaced, large

S15X_abfa47d0-0b22-45b1-b541-ebcfbccd7dea_20251120_113018_978.jpg, 00:01:43, 21.70 m
Survey abandoned, Silt & objects

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Section Inspection - 29/10/2025 - S16X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	29/10/25	11:02	Not Specified	No Rain Or Snow	No	S16X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

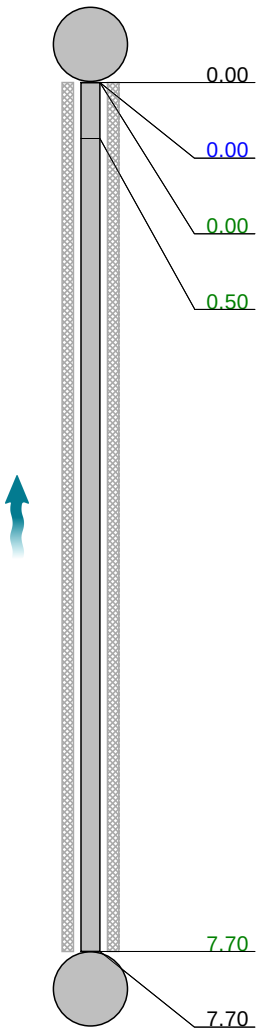
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S16
Road:	Shirley Avenue	**Inspected Length:**	7.70 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	7.70 m	**Downstream Node:**	SW8
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.690 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:67

Depth: 0.69 m
SW8



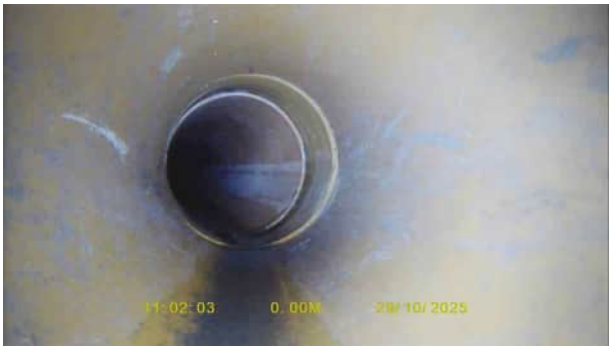
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW8	00:00:00	S16X_94656fa3-fe9c-44ba-adb	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.50		LL	Line deviates left	00:00:05		
7.70	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:32		3
7.70		GYF	Finish node, gully, reference: S16	00:00:32	S16X_455de518-5d80-4440-86	

S16
Depth: 0.00 m

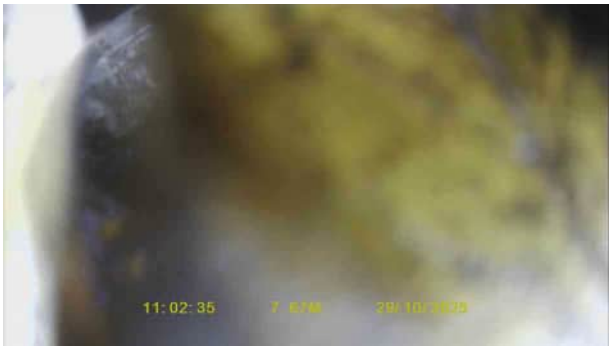
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.1	16.0	3.0

Section Pictures - 29/10/2025 - S16X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
16	Upstream	S16X		



S16X_94656fa3-fe9c-44ba-adb8-6d23c23b325c_20251120_124737_944.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW8



S16X_455de518-5d80-4440-863f-c3869ff97a5f_20251120_124817_843.jpg, 00:00:32, 7.70 m
Finish node, gully, reference: S16

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Section Inspection - 29/10/2025 - S17X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	29/10/25	11:03	Not Specified	No Rain Or Snow	No	S17X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S17
Road:	Shirley Avenue	**Inspected Length:**	8.65 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	8.65 m	**Downstream Node:**	SW8
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.960 m

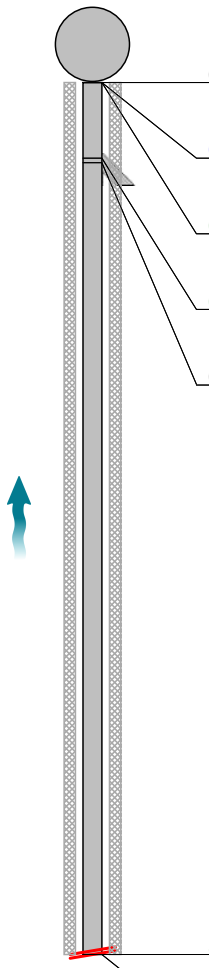
Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:75

Depth: 0.96 m

SW8



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW8	00:00:00	S17X_3fff4aaa-7bbd-428e-95b	
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.75		LL	Line deviates left	00:00:05		
0.80		JN	Junction at 9 o'clock, 100mm dia	00:00:05		
8.65	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:45		3
8.65		SA	Survey abandoned: Silt	00:00:45	S17X_334b8896-3de8-4452-9fb	

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	2.1	18.0	3.0

Section Pictures - 29/10/2025 - S17X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
17	Upstream	S17X		

S17X_3fff4aaa-7bbd-428e-95b4-7b3ae694cc70_20251120_125058_619.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW8

S17X_334b8896-3de8-4452-9fb8-f5e9f4b0ef82_20251120_125152_380.jpg, 00:00:45, 8.65 m
Survey abandoned, Silt

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Section Inspection - 29/10/2025 - SW9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	29/10/25	11:05	Not Specified	No Rain Or Snow	No	SW9X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW9
Road:	Shirley Avenue	**Inspected Length:**	0.80 m	**Upstream Pipe Depth:**	0.720 m
Location:	Other location	**Total Length:**	0.80 m	**Downstream Node:**	SW8
Surface Type:	Paving Slabs	**Joint Length:**		**Downstream Pipe Depth:**	0.720 m

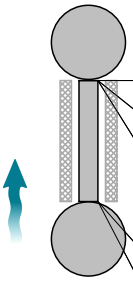
Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.72 m

SW8



SW9

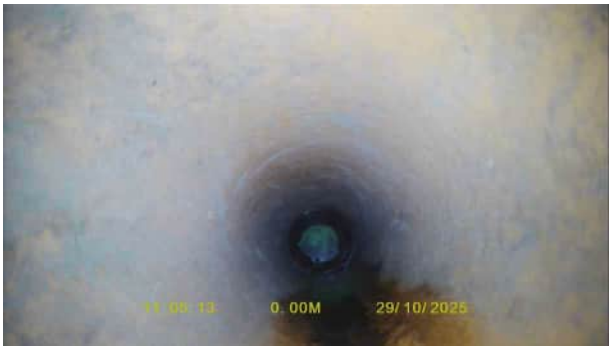
Depth: 0.72 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW8	00:00:00	SW9X_41089538-2c0e-4e9a-a	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.80	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:13		3
0.80		ICF	Finish node, inspection chamber, reference: SW9	00:00:13	SW9X_7e3c8eb0-5ef5-43ba-8e	

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	2.5	2.0	4.0

Section Pictures - 29/10/2025 - SW9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
18	Upstream	SW9X		



SW9X_41089538-2c0e-4e9a-a427-1a1fc957ec04_20251120_125905_155.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW8

SW9X_7e3c8eb0-5ef5-43ba-8ebd-92dd69d70676_20251120_125931_790.jpg, 00:00:13, 0.80 m
Finish node, inspection chamber, reference: SW9

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Section Inspection - 29/10/2025 - SW11X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	29/10/25	11:05	Not Specified	No Rain Or Snow	No	SW11X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

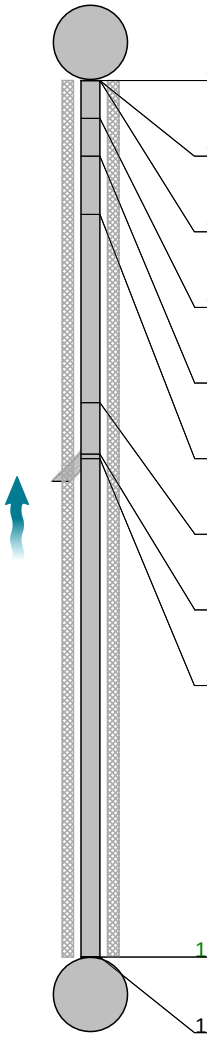
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW11
Road:	Shirley Avenue	**Inspected Length:**	19.60 m	**Upstream Pipe Depth:**	0.530 m
Location:	Other location	**Total Length:**	19.60 m	**Downstream Node:**	SW8
Surface Type:	Paving Slabs	**Joint Length:**		**Downstream Pipe Depth:**	0.950 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:169

Depth: 0.95 m
SW8



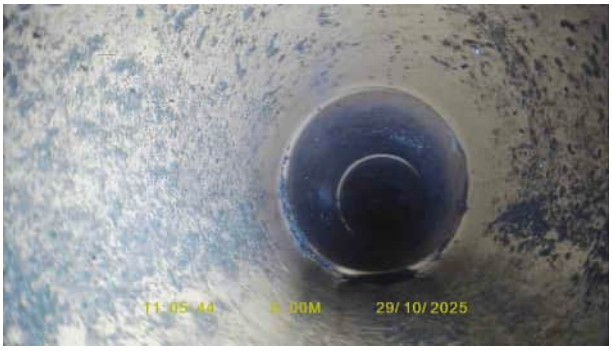
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW8	00:00:00	SW11X_a 03ef129-6 c9d-46c4-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.85		WL	Water level, 10% of the vertical dimension	00:00:03		
1.70	C01	DES	Settled deposits, fine, 10% cross-sectional area loss, change	00:00:06		
3.00	C01	DES	Settled deposits, fine, 15% cross-sectional area loss, change	00:00:21		
7.20		JDL	Joint displaced, large	00:00:45	SW11X_a 4ce1147-b 739-468c-	1 / 4
8.35		JDM	Joint displaced, medium	00:00:51	SW11X_5 6da5348-c dd6-4006-	1 / 3
8.45		JN	Junction at 3 o'clock, 100mm dia	00:00:52	SW11X_5 3552da3-3 5b1-42b6-	
19.60	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:40		3
19.60		ICF	Finish node, inspection chamber, reference: SW11	00:01:40	SW11X_2 3124a01-6 8c6-41ee-	

SW11
Depth: 0.53 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**
2	2.0	0.2	3.0	1.0	3	7.0	2.4	47.0	4.0

Section Pictures - 29/10/2025 - SW11X

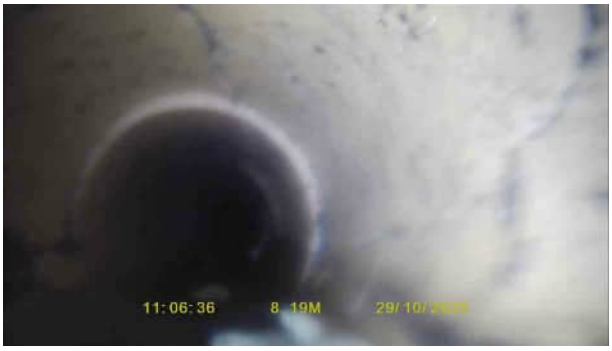
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	Upstream	SW11X		



SW11X_a03ef129-6c9d-46c4-8a55-0b6fa993e1df_20251120_130225_394.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW8

SW11X_a4ce1147-b739-468c-8bb1-2dba0af452e1_20251120_130353_190.jpg, 00:00:45, 7.20 m
Joint displaced, large

SW11X_56da5348-cdd6-4006-96dd-feee3d40f985_20251120_130437_224.jpg, 00:00:51, 8.35 m
Joint displaced, medium



SW11X_53552da3-35b1-42b6-a175-1bd977fecc17_20251120_130500_636.jpg, 00:00:52, 8.45 m
Junction at 3 o'clock, 100mm dia

Section Pictures - 29/10/2025 - SW11X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	Upstream	SW11X		

SW11X_23124a01-68c6-41ee-81ac-13a61fcd709a_20251120
_130528_458.jpg, 00:01:40, 19.60 m
Finish node, inspection chamber, reference: SW11

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Section Inspection - 29/10/2025 - SW10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	29/10/25	11:14	Not Specified	No Rain Or Snow	No	SW10X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

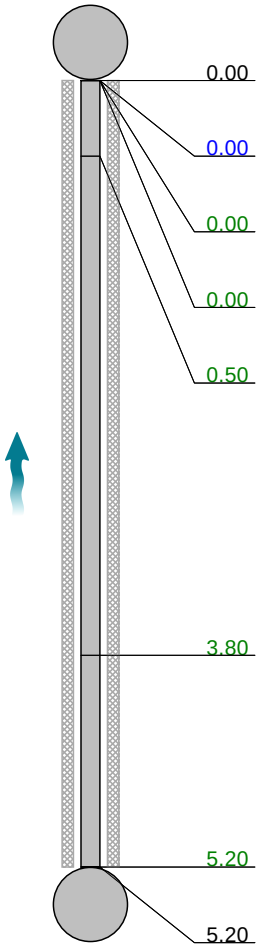
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW10
Road:	Shirley Avenue	**Inspected Length:**	5.20 m	**Upstream Pipe Depth:**	0.660 m
Location:	Other location	**Total Length:**	5.20 m	**Downstream Node:**	SW11
Surface Type:	Paving Slabs	**Joint Length:**		**Downstream Pipe Depth:**	0.670 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.67 m
SW11



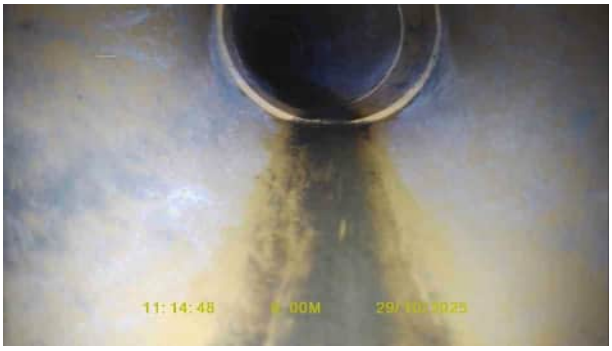
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW11	00:00:00	SW10X_2454a701-bbd1-4535-	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.00		LU	Line deviates up	00:00:00		
0.50		LL	Line deviates left	00:00:04		
3.80		LR	Line deviates right	00:00:19		
5.20	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:26		3
5.20		ICF	Finish node, inspection chamber, reference: SW10	00:00:26	SW10X_8822fee7-2041-4ffc-b	

SW10
Depth: 0.66 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	2.3	12.0	3.0

Section Pictures - 29/10/2025 - SW10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	Upstream	SW10X		



SW10X_2454a701-bbd1-4535-9cba-e00994e87873_20251120_131047_864.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW11

SW10X_8822fee7-2041-4ffc-b841-626dbc3c4355_20251120_131135_160.jpg, 00:00:26, 5.20 m
Finish node, inspection chamber, reference: SW10

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Section Inspection - 29/10/2025 - S21X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	29/10/25	11:15	Not Specified	No Rain Or Snow	No	S21X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

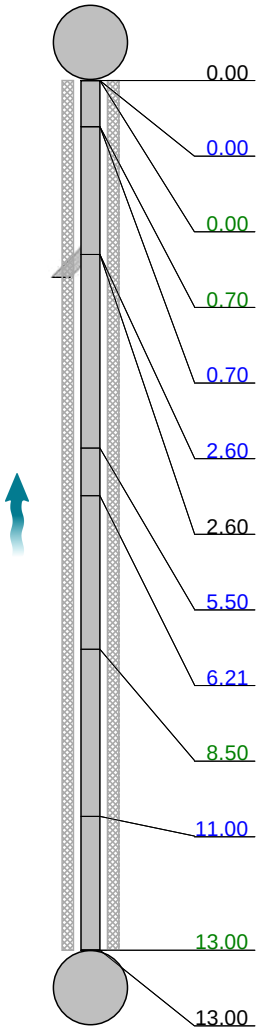
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S21
Road:	Shirley Avenue	**Inspected Length:**	13.00 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	13.00 m	**Downstream Node:**	SW9
Surface Type:	Paving Slabs	**Joint Length:**		**Downstream Pipe Depth:**	0.670 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:113

Depth: 0.67 m
SW9



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW9	00:00:00	S21X_e9b26a55-3493-4c42-a1f	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.70		LR	Line deviates right	00:00:05		
0.70		WL	Water level, 35% of the vertical dimension	00:00:05		
2.60		WL	Water level, 10% of the vertical dimension	00:00:12		
2.60		JN	Junction at 3 o'clock, 100mm dia	00:00:12	S21X_64fa01cf-0235-4dbd-99	
5.50		WL	Water level, 35% of the vertical dimension	00:00:24		
6.21		CUW	Loss of vision, camera under water	00:00:28		
8.50		LR	Line deviates right	00:00:39		
11.00		WL	Water level, 10% of the vertical dimension	00:00:52		
13.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:01		3
13.00		GYF	Finish node, gully, reference: S21	00:01:01	S21X_5a8501db-d797-45fa-9fd	

S21
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	1	2.0	2.0	26.0	3.0

Section Pictures - 29/10/2025 - S21X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	Upstream	S21X		

S21X_e9b26a55-3493-4c42-a1f7-e1afb6c1fdca_20251120_131507_759.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW9

S21X_64fa01cf-0235-4dbd-99d6-82904f55b836_20251120_131551_306.jpg, 00:00:12, 2.60 m
Junction at 3 o'clock, 100mm dia

S21X_5a8501db-d797-45fa-9fdc-cfcf8017c6e0_20251120_131651_008.jpg, 00:01:01, 13.00 m
Finish node, gully, reference: S21

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Section Inspection - 29/10/2025 - S22X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	29/10/25	11:27	Not Specified	No Rain Or Snow	No	S22X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

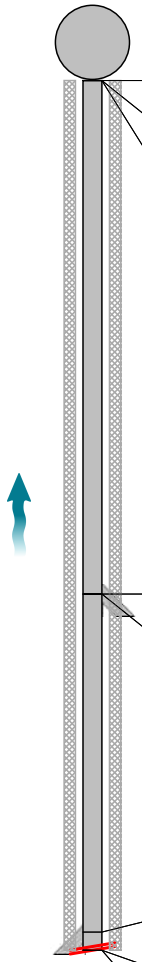
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S22
Road:	Shirley Avenue	**Inspected Length:**	11.85 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	11.85 m	**Downstream Node:**	SW9
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.600 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:103

Depth: 0.60 m
SW9



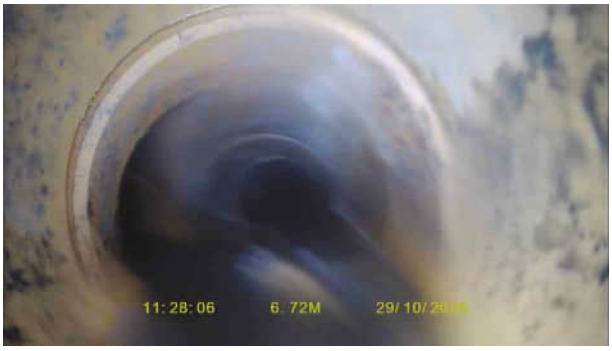
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW9	00:00:00	S22X_e935165c-ece e-47df-828	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
7.00		JN	Junction at 9 o'clock, 100mm dia	00:00:31	S22X_a7c82911-39fa-47bb-99	
7.00		WL	Water level, 35% of the vertical dimension	00:00:34		
11.60		JN	Junction at 3 o'clock, 100mm dia	00:00:52	S22X_921f4fa8-1230-4a5f-9aaf-	
11.85	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:55		3
11.85		SA	Survey abandoned: Line rises unable to navigate	00:00:55	S22X_b75231cb-4e39-4c12-ad	

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	2.0	24.0	3.0

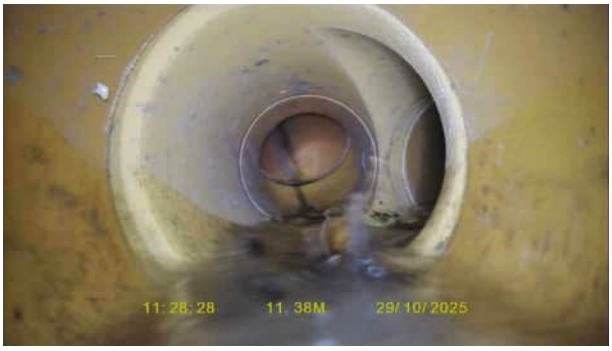
Section Pictures - 29/10/2025 - S22X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
22	Upstream	S22X		

S22X_e935165c-ecee-47df-8288-41a4b179d7fd_20251120_132143_637.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW9



S22X_a7c82911-39fa-47bb-9953-3503c041849e_20251120_132211_885.jpg, 00:00:31, 7.00 m
Junction at 9 o'clock, 100mm dia



S22X_921f4fa8-1230-4a5f-9aaf-9a18440b6877_20251120_132239_318.jpg, 00:00:52, 11.60 m
Junction at 3 o'clock, 100mm dia

S22X_b75231cb-4e39-4c12-ad52-8b74b5b91ed1_20251120_132257_068.jpg, 00:00:55, 11.85 m
Survey abandoned, Line rises unable to navigate

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Section Inspection - 29/10/2025 - SW11AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	29/10/25	12:00	Not Specified	No Rain Or Snow	No	SW11AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

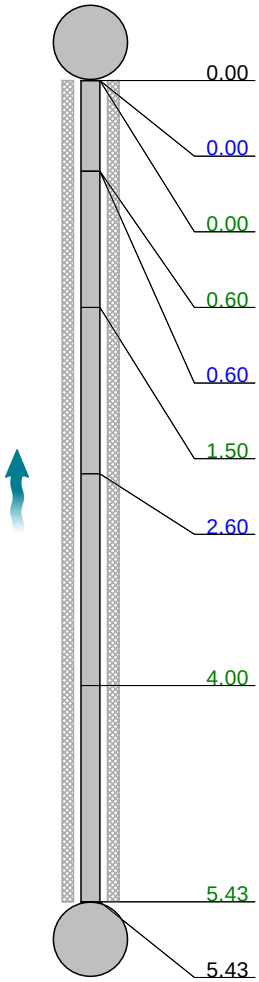
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW11A
Road:	Shirley Avenue	**Inspected Length:**	5.43 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	5.43 m	**Downstream Node:**	SW11
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.480 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.48 m
SW11



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW11	00:00:00	S23X_40c6d6b5-380d-412b-99	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.60		LL	Line deviates left	00:00:04		
0.60		WL	Water level, 15% of the vertical dimension	00:00:04		
1.50		LR	Line deviates right	00:00:19		
2.60		WL	Water level, 5% of the vertical dimension	00:00:28		
4.00		LL	Line deviates left	00:00:33		
5.43	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish			3
5.43		ICF	Finish node, inspection chamber, reference: SW11A	00:00:39	S23X_aeaca6d0-b4e6-4cb8-9f0	

SW11A
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	1	2.0	2.2	12.0	3.0

Section Pictures - 29/10/2025 - SW11AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	Upstream	SW11AX		

S23X_40c6d6b5-380d-412b-9961-6e55b0c174ac_20251120_135201_332.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW11

S23X_aeaca6d0-b4e6-4cb8-9f05-7b852b92e00d_20251120_135557_587.jpg, 00:00:39, 5.43 m
Finish node, inspection chamber, reference: SW11A

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Section Inspection - 29/10/2025 - SW13X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	29/10/25	12:05	Not Specified	No Rain Or Snow	No	SW13X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

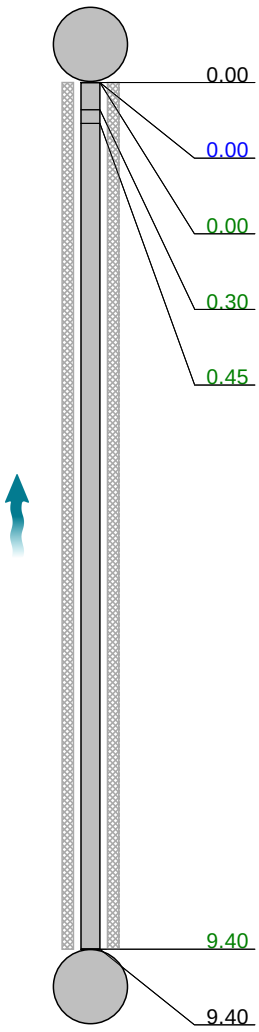
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	SW13
Road:	Shirley Avenue	**Inspected Length:**	9.40 m	**Upstream Pipe Depth:**	0.520 m
Location:	Other location	**Total Length:**	9.40 m	**Downstream Node:**	SW11
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.480 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:82

Depth: 0.48 m
SW11



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW11	00:00:00	SW13X_3f0dc33b-5fa1-40d5-a	
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:01		
0.30		LL	Line deviates left	00:00:04		
0.45		LR	Line deviates right	00:00:08		
9.40	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:01:06		3
9.40		ICF	Finish node, inspection chamber, reference: SW13	00:01:06	SW13X_099d42ac-5e49-4b4f-8	

SW13
Depth: 0.52 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	2.1	20.0	3.0

Section Pictures - 29/10/2025 - SW13X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
24	Upstream	SW13X		

SW13X_3f0dc33b-5fa1-40d5-a62c-03903d441987_20251120_140333_813.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW11

SW13X_099d42ac-5e49-4b4f-84a1-b5c7fd11681f_20251120_140419_078.jpg, 00:01:06, 9.40 m
Finish node, inspection chamber, reference: SW13

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Section Inspection - 29/10/2025 - S25X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	29/10/25	12:31	Not Specified	No Rain Or Snow	No	S25X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

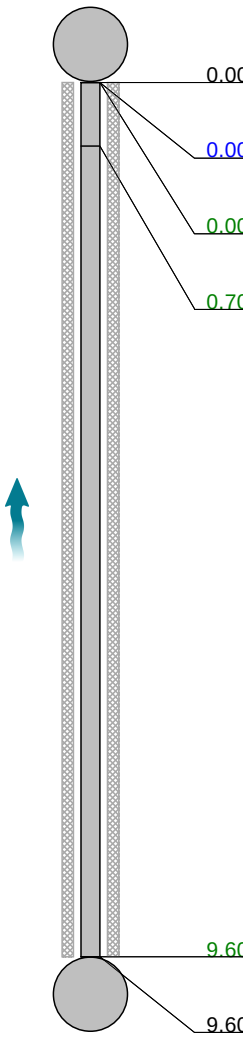
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S25
Road:	Shirley Avenue	**Inspected Length:**	9.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	9.60 m	**Downstream Node:**	SW12
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.520 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:83

Depth: 0.52 m
SW12



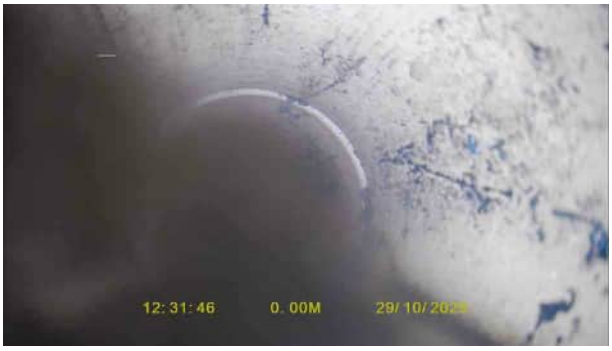
Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW12	00:00:00	S25X_ee2a53d8-f296-422d-ba	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.70		LL	Line deviates left	00:00:08		
9.60	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:48		3
9.60		OCF	Finish node, other special chamber, reference: S25: RWP	00:00:48	S25X_aac4ad21-e1b7-475c-8e	

S25
Depth: 0.00 m

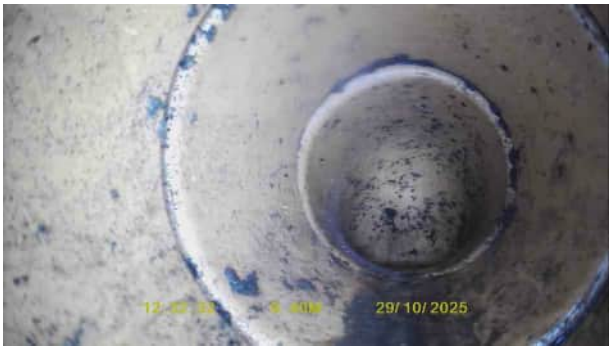
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.1	20.0	3.0

Section Pictures - 29/10/2025 - S25X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Upstream	S25X		



S25X_ee2a53d8-f296-422d-ba79-9d7e17c5196c_20251120_140836_396.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW12



S25X_aac4ad21-e1b7-475c-8e7e-0500be7e5208_20251120_140910_264.jpg, 00:00:48, 9.60 m
Finish node, other special chamber, reference: S25, RWP

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Section Inspection - 29/10/2025 - S26X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	29/10/25	12:43	Not Specified	No Rain Or Snow	No	S26X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

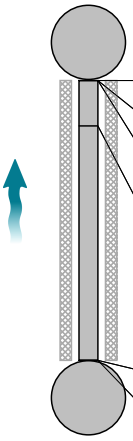
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S26
Road:	Shirley Avenue	**Inspected Length:**	1.85 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	1.85 m	**Downstream Node:**	SW13
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.510 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.51 m
SW13



S26
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW13	00:00:00	S26X_db73b9a0-2c9b-48f3-880	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.30		JDL	Joint displaced, large	00:00:01		1 / 4
1.85	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:09		3
1.85		OCF	Finish node, other special chamber, reference: S26: RWP	00:00:09	S26X_958fc31a-472a-4ef3-a37	

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	2.0	1.1	2.0	1.0	2	7.0	4.9	9.0	4.0

Section Pictures - 29/10/2025 - S26X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
26	Upstream	S26X		

S26X_db73b9a0-2c9b-48f3-8806-0531617e4b8a_20251120_141246_805.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW13

S26X_958fc31a-472a-4ef3-a377-b81b35ef4e35_20251120_160757_371.jpg, 00:00:09, 1.85 m
Finish node, other special chamber, reference: S26, RWP

EDI Surveys Ltd.
163 Ranelagh Road, Ipswich
Tel. 01473 211222

Section Inspection - 29/10/2025 - S27X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	29/10/25	12:43	Not Specified	No Rain Or Snow	No	S27X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
DM	AV73UEM	Push Rod	Not Specified	Private Drain	Not Specified

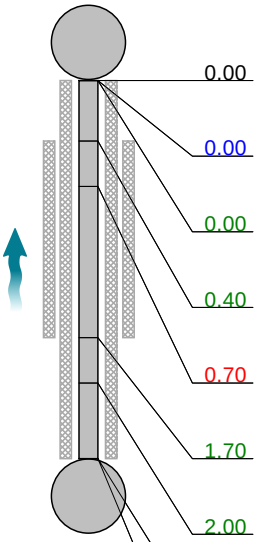
Town or Village:	Gomersal	**Inspection Direction:**	Upstream	**Upstream Node:**	S27
Road:	Shirley Avenue	**Inspected Length:**	2.50 m	**Upstream Pipe Depth:**	0.000 m
Location:	Other location	**Total Length:**	2.50 m	**Downstream Node:**	SW13
Surface Type:	Asphalt Footway	**Joint Length:**		**Downstream Pipe Depth:**	0.470 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.47 m
SW13



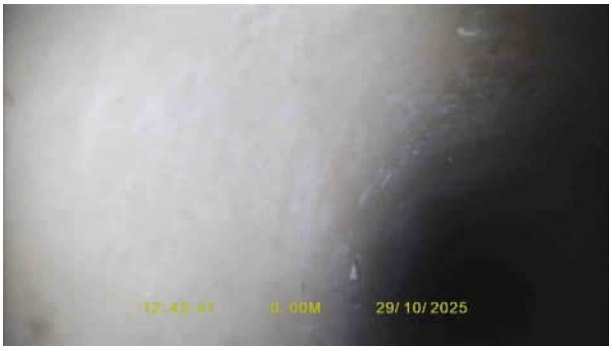
S27
Depth: 0.00 m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		IC	Start node, inspection chamber, reference: SW13	00:00:00	S27X_380cfb4e-3cee-45fe-aa8	
0.00		WL	Water level, 5% of the vertical dimension	00:00:00		
0.00	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:00		
0.40	S02	DER	Settled deposits, coarse, 20% cross-sectional area loss, start	00:00:04		
0.70		FC	Fracture, circumferential from 7 o'clock to 5 o'clock	00:00:06	S27X_75b41ab2-d5f4-4b5d-b5	3 / 2
1.70	F02	DER	Settled deposits, coarse, 20% cross-sectional area loss, finish	00:00:13		4
2.00		LL	Line deviates left	00:00:15		
2.50	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:20		3
2.50		OCF	Finish node, other special chamber, reference: S27: RWP	00:00:20	S27X_879180dd-aa87-40f4-9a1	

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	40.0	16.0	40.0	3.0	3	8.0	6.8	17.0	5.0

Section Pictures - 29/10/2025 - S27X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
27	Upstream	S27X		



S27X_380cfb4e-3cee-45fe-aa87-0a32545695f6_20251120_141609_817.jpg, 00:00:00, 0.00 m
Start node, inspection chamber, reference: SW13

S27X_75b41ab2-d5f4-4b5d-b5e1-61a0704ed9ac_20251120_141706_698.jpg, 00:00:06, 0.70 m
Fracture, circumferential from 7 o'clock to 5 o'clock

S27X_879180dd-aa87-40f4-9a13-efa9ee612d65_20251120_141806_059.jpg, 00:00:20, 2.50 m
Finish node, other special chamber, reference: S27, RWP

Appendix C – Yorkshire Water Records

YORKSHIRE WATER
PROTECTION OF MAINS AND SERVICES

1. The position of Yorkshire Water Services Ltd (YWS) apparatus shown on the existing mains record drawing(s) indicates the ***general*** position and nature of our apparatus and the accuracy of this information cannot be guaranteed. Any damage to YWS apparatus as a result of your works may have serious consequences and you will be held responsible for all costs incurred. Prior to commencing major works, the exact location of apparatus must be determined on site, if necessary by excavating trial holes. The actual position of such apparatus and that of service pipes which have not been indicated must be established on site by contacting the Customer Helpline on 0845 124 24 24 for both water and sewerage.

2. The public sewer and water network is lawfully retained in its existing position and the sewerage and water undertaker is entitled to have it remain so without any disturbance. The provisions of section 159 of the Water Industry Act 1991 provides that the undertaker may "inspect, maintain, adjust, repair or alter" the network. Those rights are given to enable the undertaker to perform its statutory duties. Any development of the land or any other action that unacceptably hindered the exercise of those rights would be unlawful. The provisions contained in Section 185 of the Water Industry Act 1991 state that where it is reasonable to do so, a person may require the water supply undertaker to alter or remove a pipe where it is necessary to enable that person to carry out a proposed change of use of the land. The provisions contained in Section 185 also require the person making the request to pay the full cost of carrying out the necessary works.

3. Ground levels over existing YWS apparatus are to be maintained. Sewers in highways will ***generally*** be laid to give 1200mm of cover from finished ground level working to kerb races, other permanent identification of the limits of the road or to an agreed line and level. Substantial increases or decreases to this 1200mm depth of cover will result in the sewer being re-laid at your expense. Water mains and services will ***generally*** be laid with a minimum of 750mm depth of cover however some mains and services usually those installed over 50 years ago may have less ground cover.

4. If surface levels are to be decreased / increased significantly the effects on existing water supply apparatus will be carefully considered and if any alterations are necessary, the costs of the alterations will be recharged to you in full. Outlets on fire hydrants must be no more than 300mm below the new levels and all surface boxes must be adjusted as part of the scheme.

5. To enable future repair works to be carried out without hindrance; any pipe, cable, duct, etc. installed parallel to a water main or service pipe should not be installed directly over or within 300mm of a water main or service pipe or 1000mm of a waste water asset. Where a pipe, cable, duct, etc. crosses a main or service it should preferably cross perpendicular or at an angle of no less than 45o and with a minimum clearance of 150mm. These requirements apply to activities within an existing highway and are relevant to the installation of pipes, cables, ducts, etc. up to and including 250mm in diameter *(see illustration below).* Necessary protection measures for installations greater than 250mm in diameter and/or in private land will need to be agreed on an individual basis. Installations within a new development site must comply with the National Joint Utilities Group publication Volume 2: NJUG Guidelines On The Positioning Of Underground Utilities Apparatus For New Development Sites.

6. All excavation works near to YW apparatus should be by hand digging only.

7. Backfilling with a suitable material to a minimum 300mm above YW apparatus is required.

8. Adequate support must be provided where any works pass under YW apparatus.

9. Jointing chambers, lighting columns and other structures must be installed in such a way that future repair or maintenance works to YW apparatus will not be hindered.

10. Apparatus such as; railings, sign posts, etc. must not be placed in such a way that they prevent access to or full operation of controlling valves, hydrants or similar apparatus. YWS surface boxes must not be covered or buried. Any adjustment, alteration or replacement of manhole covers must be agreed on site prior to the commencement of the works with a YWS Inspector who may be contacted via our Call Centre on 0845 124 24 24.

11. Explosives shall not be used within 100 metres of any Yorkshire Water Services apparatus or installations.

12. Vibrating plant should not be used directly over any apparatus. Movement or operation by vehicles or heavy plant is not to be permitted in the immediate vicinity of YWS plant or apparatus unless there has been prior consultation and, if necessary, adequate protection provided without cost to YWS.

13. ***Under no circumstances*** should thrust boring or similar trenchless techniques commence until the actual position of the Company's mains/services along the proposed route have been confirmed by trial holes.

14. Any alterations to the highway should be notified following the procedures outlined in the New Road and Street Works Act 1991 Code of Practice; Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works).

15. You will be held responsible for any damage or loss to YWS apparatus during and after completion of work, caused by yourselves, your servant or agent. Any damage caused or observed to YWS plant or apparatus should be immediately reported to YWS. Should YW incur any costs as a result of non-compliance with the above, all costs will be rechargeable in full.

16. You should ensure that nothing is done on the site to prejudice the safety or operation of YWS employees, plant or apparatus.

17. In accordance with the New Roads and Street Works Act 1991, Chapter 22, Part 3, Section 80. The location of any identified YW asset "*which is not marked, or is wrongly marked, on the records made available*" should be communicated back to Yorkshire Water. The location of the apparatus should be identified on copies of the supplied plans which should be returned to Yorkshire Water (Asset Records Team) with photographic supporting evidence where possible.

18. The Government has decided that responsibility for private sewers serving two or more properties and lateral drains (the section of pipe beyond the boundary of a single property, connecting it to the public sewer) will be transferred to the water companies on Oct 1 2011.

Private pumping stations will also transfer during the period 1 October 2011 – 1 Oct 2016. Records of these assets may not yet be shown on the existing mains record drawing(s). If you encounter any of these assets you must inform Yorkshire Water Services Ltd (YWS).

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20. This information is for guidance only and the position and depth of any YW apparatus is approximate only. Likewise, the nature and condition of any YW apparatus cannot be guaranteed. YW has no responsibility for recording the locations of privately owned apparatus. As of 1 October 2011, there may be some lateral drains and/or public sewers which are not documented on YW records but may still be present. For the avoidance of doubt, this information is not a substitute for appropriate professional and/or legal advice. YW accepts no responsibility for any inaccuracy or omissions in this information. The actual position of YW apparatus must be determined on site by excavating trail holes by hand. YW requires a minimum of two working days' written notice of the intention to excavate any trial holes before any excavation can be undertaken. If there are any queries in this respect please contact Yorkshire Water on 0845 124 24 24.

Property Identfier

or

Sewer Legend

Combined Sewer

S24 Combined Sewer

Surface Water Sewer

S24 Surface Water Sewer

Foul Sewer

S24 Foul Sewer

Section 104 Sewer

Rising Main

Overflow Sewer

Abandoned Sewer

Syphone Sewer &
Vacuum Sewer

Pumping Station

STW Public Sewer Tretment Works

Please note that the direction of flow arrows may not always appear depending on the scale of the map.

Water Legend

Water Main 4" and below

Water Main 4" and above

Raw Water Main

Private Water Main

Fire Hydrant

Pumping Station

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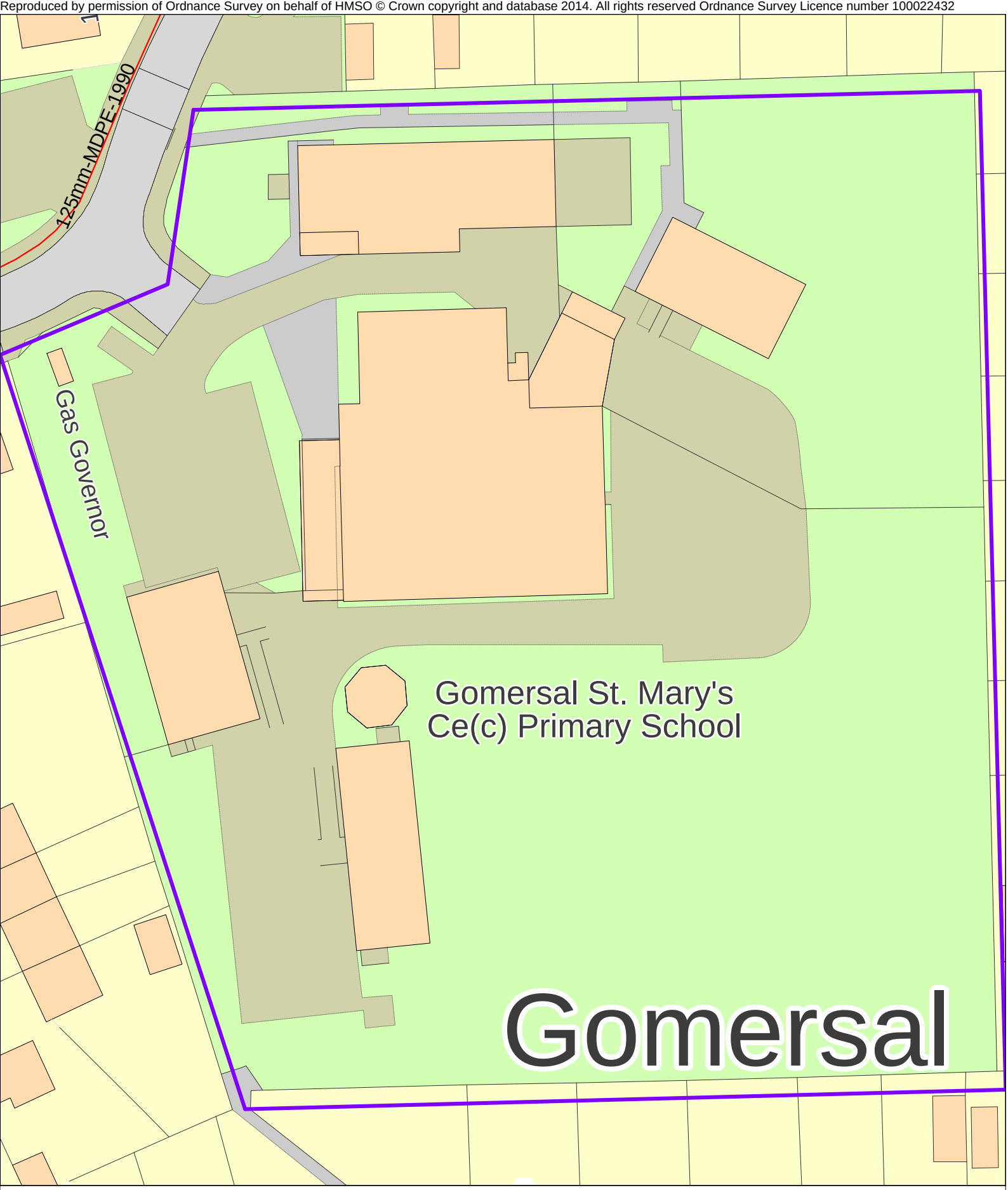

Public Clean Water Network 28/10/2022 11:40:42 OS Grid Coordinates: 420705 : 425637 Map Name : SE2025NE svcGISSafeMovePD

Registered office, Yorkshire water Services Limited. 1
Western House, Halifax Road, Bradford BD62SZ.
Registered in England and wales No. 2366682

SafeMove
A part of YorkshireWater

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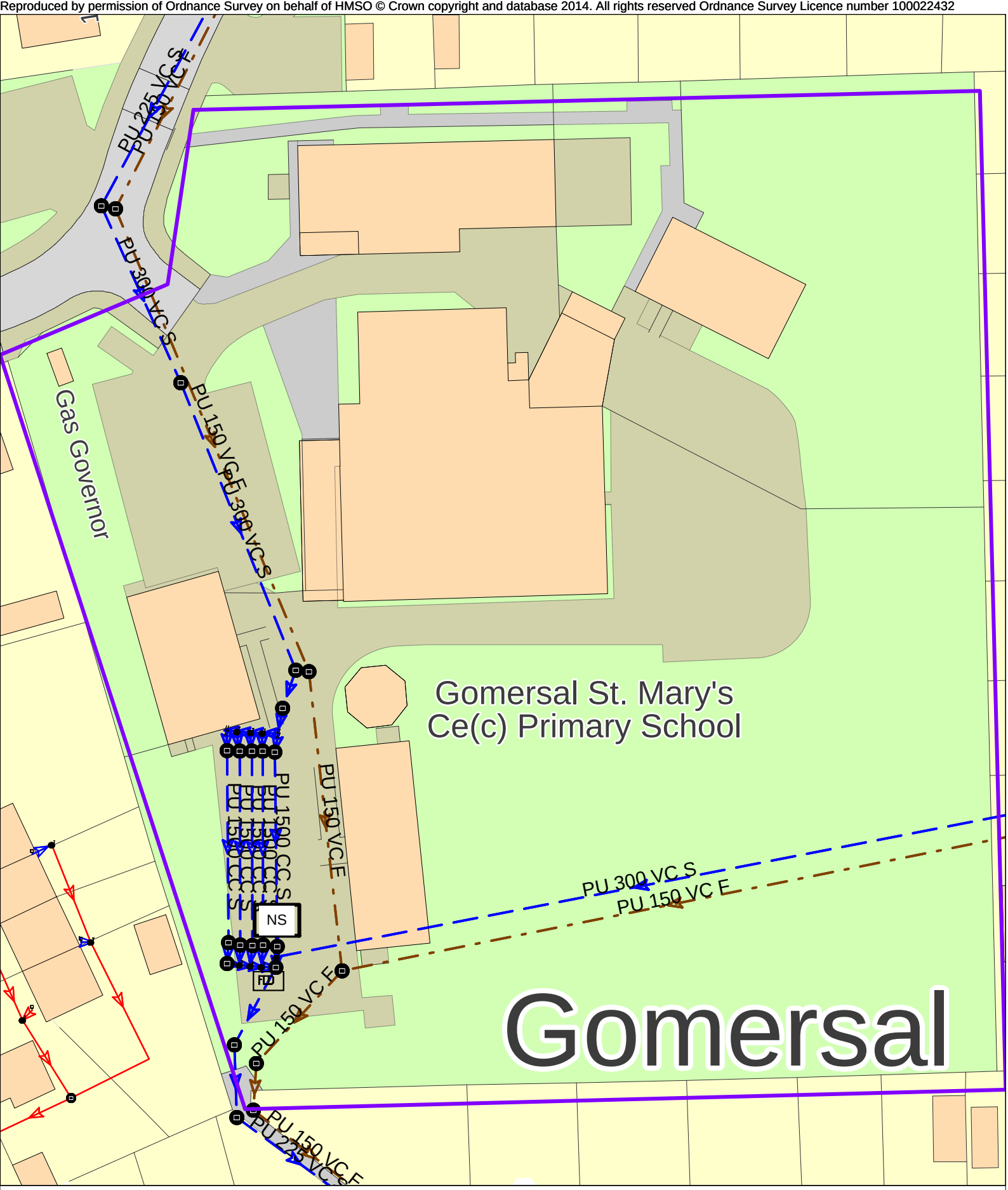
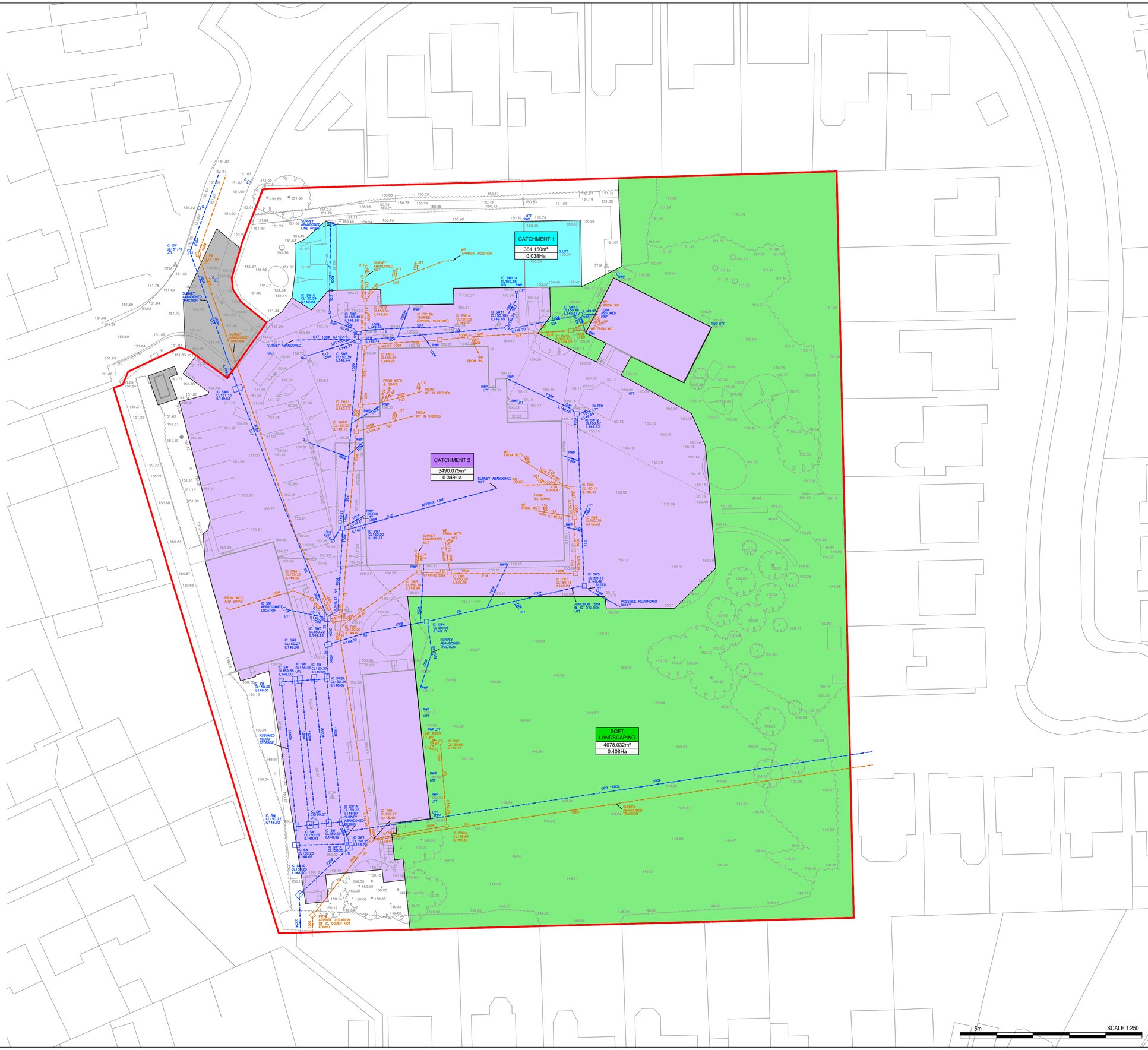


Public Waste Water Network 28/10/2022 11:40:43 OS Grid Coordinates: 420705 : 425637 Map Name : SE2025NE svcGISSafeMovePD

Registered office, Yorkshire water Services Limited. 1
Western House, Halifax Road, Bradford BD62SZ.
Registered in England and wales No. 2366682

SafeMove
A part of YorkshireWater

Appendix D – Existing Catchment



Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.
5. This drawing should be printed and read in colour.

Legend

- RED LINE BOUNDARY
- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL WATER DRAINAGE
- EXISTING SOFT LANDSCAPING (NO POSITIVE DRAINAGE)
- EXISTING CATCHMENT 1 (BLOCK TO BE RETAINED)
- EXISTING CATCHMENT 2
- EXISTING CATCHMENT (DISCHARGE LOCATION TBC VIA SURVEY)

Existing positively drainage area = 0.349Ha
140l/s/Ha = 48.86l/s existing discharge rate

Allowable discharge rate 48.86l/s * 30%
Betterment = 34.2l/s

REV	DATE	DESCRIPTION
P02	17.03.26	PRELIMINARY ISSUE
P01	06.03.26	PRELIMINARY ISSUE

CLIENT

Department for Education

CONTRACTOR

BOWMER + KIRKLAND

CONSULTANT

HEXA

PROJECT

GOMERSAL ST MARYS PRIMARY SCHOOL

DRAWING TITLE

EXISTING CATCHMENT PLAN

DEIR REF : 203, 165

DRAWING PURPOSE

PRELIMINARY

DRAWN BY	DATE	CHK'D BY	SCALE	MEDIA
SM	06.03.26	RR	1:250	A1

PROJECT - ORIGINATOR - ZONE - LEVEL - TYPE - ROLE - NUMBER	REVISION
SRP1134-HEX-ZZ-ZZ-D-C-9232	P02

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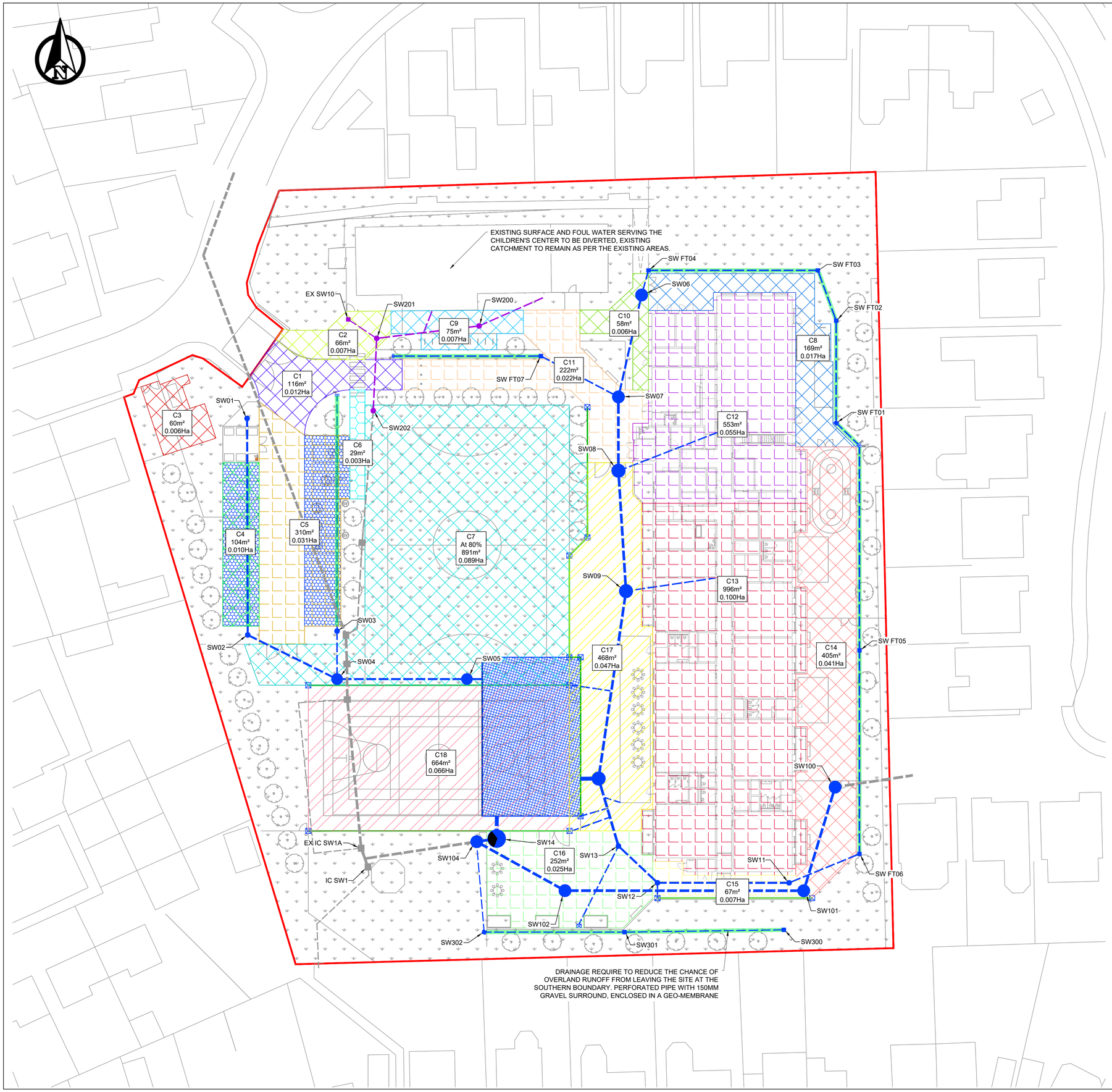
Appendix E – Proposed Catchment



PROPOSED - CATCHMENT AREAS		
HATCH COLOUR	CATCHME - NT REF	MH LINK
	C1	SW01
	C2	SW01
	C3	SW01
	C4	SW02
	C5	SW03
	C6	SW03
	C7	SW05
	C8	SW06
	C9	SW 07
	C10	SW07
	C11	SW07
	C12	SW 08
	C13	SW 09
	C14	SW11
	C15	SW 11
	C16	SW12
	C17	SW13
	C18	SW10
TOTAL (m^2)	5536	
TOTAL (ha)	0.554	

Notes

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2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.
5. This drawing should be printed and read in colour.

Legend

- RED LINE BOUNDARY
- PROPOSED SURFACE WATER
- PROPOSED FLOW CONTROL
- EXISTING SURFACE WATER
- PROPOSED SURFACE WATER DIVERSIONS
- PROPOSED SRWP CONNECTION
- PROPOSED ROAD GULLY
- PROPOSED RODDING EYE
- PROPOSED SUMP
- PROPOSED CHANNEL DRAIN
- PROPOSED PERFORATED PIPE
- PROPOSED ATTENUATION TANK
- PROPOSED PERMEABLE PAVING

REV	DATE	DESCRIPTION
P02	30.03.26	PRELIMINARY ISSUE
P01	17.03.26	PRELIMINARY ISSUE

CLIENT

Department for Education

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CONSULTANT

HEXA

PROJECT

GOMERSAL ST MARYS PRIMARY SCHOOL

DRAWING TITLE

PROPOSED CATCHMENT AREAS

DEIR REF : 203, 165

DRAWING PURPOSE

PRELIMINARY

DRAWN BY	DATE	CHK'D BY	SCALE	MEDIA
SM	17.03.26	RR	1:250	A1

5m SCALE 1:250

PROJECT - ORIGINATOR - ZONE - LEVEL - TYPE - ROLE - NUMBER: SRP1134-HEX-ZZ-ZZ-D-C-9230

REVISION: P02

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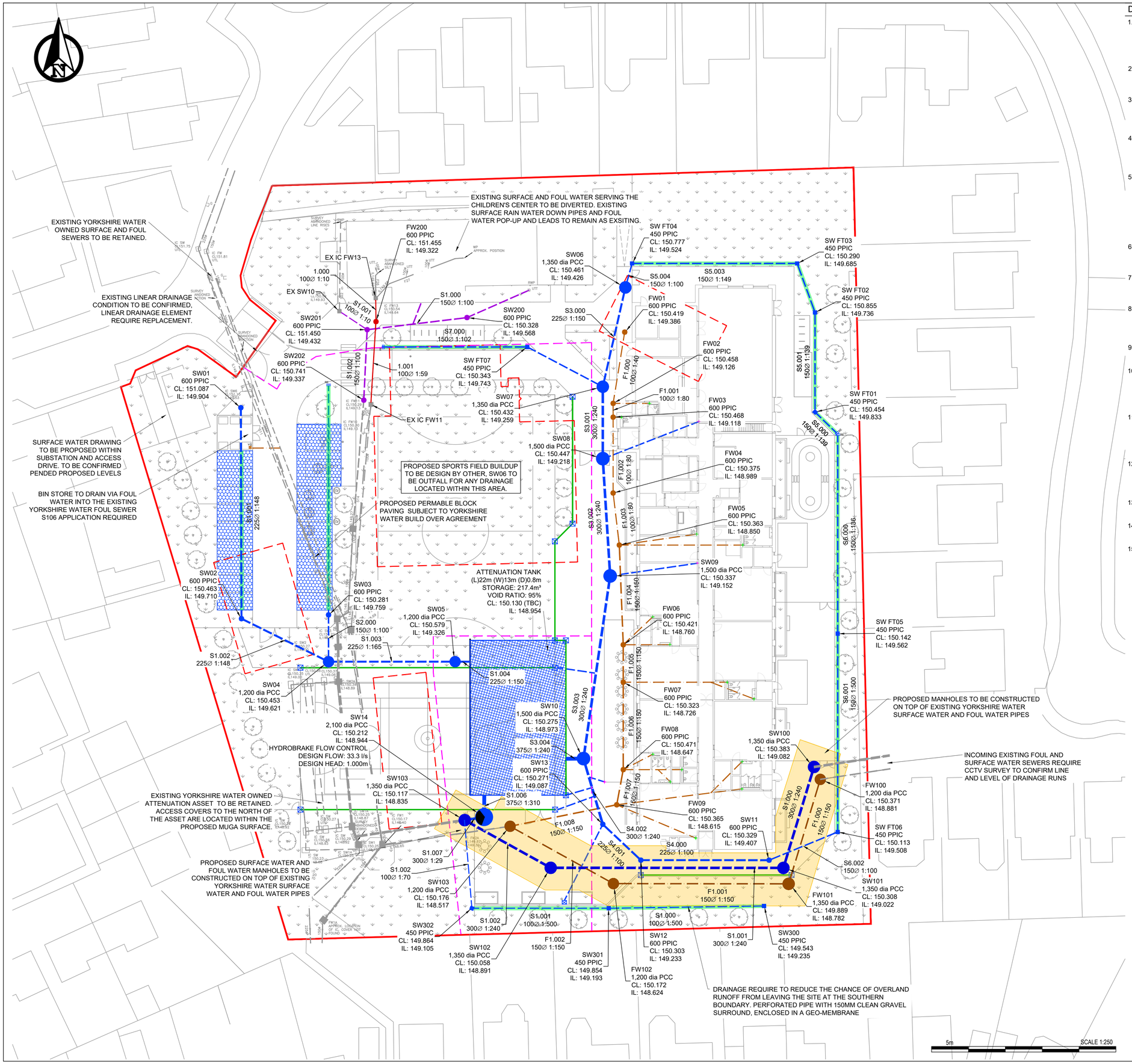
Appendix F – Drainage Layout



Design Notes

1. DRAINAGE DESIGN BASED ON THE FOLLOWING INFORMATION
   N1471-ONE-ZZ-XX-M2-L-0001_Site
   N1471-ONE-ZZ-XX-M2-A-0001_ArchGF
   22878_Topographic and Services Survey_Final
2. DRAINAGE PROPOSALS SUBJECT TO FURTHER COORDINATION WITH YORKSHIRE WATER IN RELATION TO S185 PROPOSALS
3. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH STANDARDS, CODES OF PRACTICE AND BUILDING REGULATIONS.
4. ALL POP-UP POSITIONS AND SETTING OUT OF POP UPS RESPONSIBILITY OF THE ARCHITECT AND M&E CONTRACTOR. PLEASE REFER TO APPROPRIATE DRAWINGS.
5. DRAINAGE POP UPS MINIMUM GRADIENTS TO BE IN ACCORDANCE WITH BUILDING REGS PART H AND PER GRADIENTS SHOWN ON MANHOLE SCHEDULE. WHERE NO WCS ARE CONNECTED UPSTREAM, UNDER SLAB FOUL WATER (FW) DRAINAGE TO BE LAID AT 1:40 MIN. AFTER THE CONNECTION OF AT LEAST 1 NO WC, A MIN. FALL OF 1:80 APPLIES.
6. ALL SOIL VENT PIPES (SVPS) TO BE FITTED WITH RODDABLE ACCESS PLATES. ALL FOUL DRAINS TO HAVE RODDABLE ACCESS.
7. ALL FOUL CONNECTIONS TO BE VENTED TO ATMOSPHERE. ALL POP-UPS LOCATED AT THE HEAD OF DRAINS TO BE VENTED ABOVE GROUND.
8. ALL MANHOLE COVERS AND FRAMES TO BS EN 124 UNLESS OTHERWISE NOTED.
   D400 IN TRAFFIC AND MEWP LOADED AREAS
   B125 IN PEDESTRIAN LOADED AREAS
9. INTERNAL MANHOLES TO BE RECESSED AND DOUBLE SEALED
10. ALL PIPEWORK BELOW ROAD AND CAR PARKING WITH LESS THAN 1200MM COVER MUST BE PROTECTED WITH A SUITABLE SLAB/CONCRETE SURROUND AS PER DRAINAGE DETAILS AND ALL PIPEWORK BELOW 900mm IN LANDSCAPED AREAS.
11. THE CONTRACTOR IS OBLIGED TO APPLY FOR A SECTION 106 CONNECTION TO THE WATER AUTHORITY WHEN CONNECTING DIRECTLY OR INDIRECTLY TO THE PUBLIC SEWERAGE NETWORK.
12. ALL UNCOVERED AND SHALLOW PIPEWORK TO BE PROTECTED AGAINST CONSTRUCTION TRAFFIC AS PART OF THE CONTRACTOR'S TEMPORARY WORKS REQUIREMENTS.
13. CONTRACTOR RESPONSIBLE FOR MANAGING SURFACE WATER IN TEMPORARY STATE.
14. SECTION 185 AGREEMENT IS SUBJECT TO YORKSHIRE WATER'S APPROVAL.
15. INCOMING PROPOSED PRIVATE FOUL WATER PIPES INTO THE EXISTING YORKSHIRE WATER FOUL SEWER ARE SUBJECT TO SECTION 106 APPLICATIONS.

Notes

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2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.
5. This drawing should be printed and read in colour.

Legend

- RED LINE BOUNDARY
- EXISTING BUILDING FOOTPRINT
- PHASE 3 BOUNDARY
- PROPOSED SURFACE WATER
- PROPOSED FLOW CONTROL
- PROPOSED S185 AND EASEMENT
- PROPOSED FOUL WATER
- PROPOSED S185 AND EASEMENT
- EXISTING SURFACE WATER
- EXISTING FOUL WATER
- PROPOSED SRWP CONNECTION
- PROPOSED POP-UP CONNECTION
- PROPOSED ROAD GULLY
- PROPOSED RODDING EYE
- PROPOSED LINEAR DRAINAGE SUMP AND ACCESS
- PROPOSED FOUL WATER YARD GULLY
- PROPOSED CHANNEL DRAIN
- PROPOSED PERFORATED PIPE (150mm)
- PROPOSED ATTENUATION TANK
- PROPOSED PERMEABLE PAVING

REV	DATE	DESCRIPTION
P02	30.03.26	PRELIMINARY ISSUE
P01	17.03.26	PRELIMINARY ISSUE

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PROJECT

GOMERSAL ST MARYS PRIMARY SCHOOL

DRAWING TITLE

DRAINAGE LAYOUT

DEIR REF : 203, 165

DRAWING PURPOSE

PRELIMINARY

DRAWN BY	DATE	CHK'D BY	SCALE	MEDIA
SM	17.03.26	RR	1:250	A1

PROJECT - ORIGINATOR - ZONE - LEVEL - TYPE - ROLE - NUMBER: SRP1134-HEX-ZZ-ZZ-D-C-9200

REVISION: P02

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Appendix G - Flow Calculation

Design Settings

Rainfall Methodology	FEH-22	Maximum Time of Concentration (mins)	30.00	Preferred Cover Depth (m)	1.200
Return Period (years)	100	Maximum Rainfall (mm/hr)	50.0	Include Intermediate Ground	✓
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	Enforce best practice design rules	x
CV	1.000	Connection Type	Level Soffits		
Time of Entry (mins)	5.00	Minimum Backdrop Height (m)	0.200		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
SW01	0.028	5.00	151.087	600		420723.271	425718.053	1.183	149.904
SW02	0.010	5.00	150.436	600		420723.286	425690.306	0.726	149.710
SW03	0.034	5.00	150.281	600		420734.298	425690.279	0.522	149.759
SW04			150.328	1350		420734.298	425683.931	0.707	149.621
SW05	0.089	5.00	150.247	1350		420751.464	425683.933	0.730	149.517
SW06	0.014	5.00	150.475	1350		420774.463	425733.638	1.056	149.419
SW07	0.035	5.00	150.432	1350		420771.491	425721.211	1.173	149.259
SW08	0.055	5.00	150.447	1500		420771.491	425711.461	1.229	149.218
SW09	0.100	5.00	150.316	1500		420771.491	425695.566	1.164	149.152
SW11	0.051	5.00	150.329	600		420795.318	425657.016	0.909	149.420
SW12			150.303	600		420776.651	425657.022	1.070	149.233
SW13	0.047	5.00	150.271	600		420771.491	425661.883	1.184	149.087
SW10	0.066	5.00	150.275	1500		420768.870	425670.793	1.302	148.973
TANK			150.300	1	1	420763.065	425671.310	1.346	148.954
SW14 FLOW CONTROL			150.212	2100		420755.389	425662.857	1.268	148.944
SW104			150.117	1350		420752.765	425662.447	1.264	148.853
LOW SPOT	0.025	5.00	149.966	600		420766.277	425651.293	0.600	149.366

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Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
S1.001	SW01	SW02	27.747	0.600	149.904	149.710	0.194	143.0	225	5.42	50.0
S1.002	SW02	SW04	12.724	0.600	149.710	149.621	0.089	143.0	225	5.62	50.0
S2.000	SW03	SW04	6.348	0.600	149.759	149.696	0.063	100.8	150	5.11	50.0
S1.003	SW04	SW05	17.166	0.600	149.621	149.517	0.104	165.1	225	5.90	50.0
S1.004	SW05	TANK	2.027	0.600	149.517	149.503	0.014	144.8	225	5.93	50.0
S3.000	SW06	SW07	12.777	0.600	149.419	149.334	0.085	150.3	225	5.20	50.0
S3.001	SW07	SW08	9.750	0.600	149.259	149.218	0.041	237.8	300	5.36	50.0
S3.002	SW08	SW09	15.895	0.600	149.218	149.152	0.066	240.8	300	5.62	50.0
S3.003	SW09	SW10	24.911	0.600	149.152	149.048	0.104	239.5	300	6.03	50.0
S4.000	SW11	SW12	18.667	0.600	149.420	149.233	0.187	99.8	225	5.24	50.0
S4.001	SW12	SW13	7.089	0.600	149.233	149.162	0.071	99.8	225	5.33	50.0
S4.002	SW13	SW10	9.288	0.600	149.087	149.048	0.039	238.2	300	5.48	50.0
3.004	SW10	TANK	2.375	0.600	148.973	148.963	0.010	237.5	375	6.07	50.0
1.004	TANK	SW14 FLOW CONTROL	2.965	0.600	148.954	148.944	0.010	296.5	375	6.11	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
S1.001	1.091	43.4	5.1	0.958	0.501	0.028	0.0
S1.002	1.091	43.4	6.9	0.501	0.482	0.038	0.0
S2.000	1.001	17.7	6.1	0.372	0.482	0.034	0.0
S1.003	1.015	40.3	13.0	0.482	0.505	0.072	0.0
S1.004	1.084	43.1	29.1	0.505	0.572	0.161	0.0
S3.000	1.064	42.3	2.5	0.831	0.873	0.014	0.0
S3.001	1.015	71.7	8.9	0.873	0.929	0.049	0.0
S3.002	1.008	71.3	18.8	0.929	0.864	0.104	0.0
S3.003	1.011	71.5	36.9	0.864	0.927	0.204	0.0
S4.000	1.308	52.0	9.2	0.684	0.845	0.051	0.0
S4.001	1.308	52.0	9.2	0.845	0.884	0.051	0.0
S4.002	1.014	71.7	22.2	0.884	0.927	0.123	0.0
3.004	1.171	129.3	71.0	0.927	0.962	0.393	0.0
1.004	1.047	115.6	100.1	0.971	0.893	0.554	0.0

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Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
S1.006	SW14 FLOW CONTROL	SW104	2.656	0.600	148.944	148.853	0.091	29.2	300	6.13	50.0
3.000	LOW SPOT	SW13	11.804	0.600	149.366	149.237	0.129	91.5	150	5.19	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)
S1.006	2.921	206.4	100.1	0.968	0.964	0.554	0.0
3.000	1.051	18.6	4.5	0.450	0.884	0.025	0.0

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
S1.001	27.747	143.0	225	PVC Pipe SI	151.087	149.904	0.958	150.436	149.710	0.501
S1.002	12.724	143.0	225	PVC Pipe SI	150.436	149.710	0.501	150.328	149.621	0.482
S2.000	6.348	100.8	150	PVC Pipe SI	150.281	149.759	0.372	150.328	149.696	0.482
S1.003	17.166	165.1	225	PVC Pipe SI	150.328	149.621	0.482	150.247	149.517	0.505
S1.004	2.027	144.8	225	PVC Pipe SI	150.247	149.517	0.505	150.300	149.503	0.572
S3.000	12.777	150.3	225	PVC Pipe SI	150.475	149.419	0.831	150.432	149.334	0.873
S3.001	9.750	237.8	300	PVC Pipe SI	150.432	149.259	0.873	150.447	149.218	0.929
S3.002	15.895	240.8	300	PVC Pipe SI	150.447	149.218	0.929	150.316	149.152	0.864

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Width (mm)	Node Type	MH Type
S1.001	SW01	600		Manhole	PPIC	SW02	600		Manhole	PPIC
S1.002	SW02	600		Manhole	PPIC	SW04	1350		Manhole	Manhole PCC -3m
S2.000	SW03	600		Manhole	PPIC	SW04	1350		Manhole	Manhole PCC -3m
S1.003	SW04	1350		Manhole	Manhole PCC -3m	SW05	1350		Manhole	Manhole PCC -3m
S1.004	SW05	1350		Manhole	Manhole PCC -3m	TANK	1	1	Manhole	Manhole PCC -3m
S3.000	SW06	1350		Manhole	PPIC	SW07	1350		Manhole	PPIC
S3.001	SW07	1350		Manhole	PPIC	SW08	1500		Manhole	Manhole PCC -3m
S3.002	SW08	1500		Manhole	Manhole PCC -3m	SW09	1500		Manhole	Manhole PCC -3m

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Pipeline Schedule

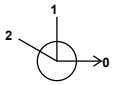
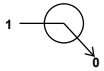
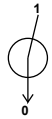
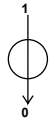
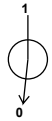
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
S3.003	24.911	239.5	300	PVC Pipe SI	150.316	149.152	0.864	150.275	149.048	0.927
S4.000	18.667	99.8	225	PVC Pipe SI	150.329	149.420	0.684	150.303	149.233	0.845
S4.001	7.089	99.8	225	PVC Pipe SI	150.303	149.233	0.845	150.271	149.162	0.884
S4.002	9.288	238.2	300	PVC Pipe SI	150.271	149.087	0.884	150.275	149.048	0.927
3.004	2.375	237.5	375	PVC Pipe SI	150.275	148.973	0.927	150.300	148.963	0.962
1.004	2.965	296.5	375	PVC Pipe SI	150.300	148.954	0.971	150.212	148.944	0.893
S1.006	2.656	29.2	300	PVC Pipe SI	150.212	148.944	0.968	150.117	148.853	0.964
3.000	11.804	91.5	150	PVC Pipe SI	149.966	149.366	0.450	150.271	149.237	0.884

Link	US Node	Dia (mm)	Width (mm)	Node Type	MH Type	DS Node	Dia (mm)	Width (mm)	Node Type	MH Type
S3.003	SW09	1500		Manhole	Manhole PCC -3m	SW10	1500		Manhole	Manhole PCC -3m
S4.000	SW11	600		Manhole	PPIC	SW12	600		Manhole	PPIC
S4.001	SW12	600		Manhole	PPIC	SW13	600		Manhole	PPIC
S4.002	SW13	600		Manhole	PPIC	SW10	1500		Manhole	Manhole PCC -3m
3.004	SW10	1500		Manhole	Manhole PCC -3m	TANK	1	1	Manhole	Manhole PCC -3m
1.004	TANK	1	1	Manhole	Manhole PCC -3m	SW14 FLOW CONTROL	2100		Manhole	Manhole PCC -3m
S1.006	SW14 FLOW CONTROL	2100		Manhole	Manhole PCC -3m	SW104	1350		Manhole	Manhole PCC -3m
3.000	LOW SPOT	600		Manhole	PPIC	SW13	600		Manhole	PPIC

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections		Link	IL (m)	Dia (mm)
SW01	420723.271	425718.053	151.087	1.183	600		0	0	S1.001	149.904	225
SW02	420723.286	425690.306	150.436	0.726	600		1	1	S1.001	149.710	225
							0	0	S1.002	149.710	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections		Link	IL (m)	Dia (mm)
SW03	420734.298	425690.279	150.281	0.522	600			0	S2.000	149.759	150
SW04	420734.298	425683.931	150.328	0.707	1350			1	S2.000	149.696	150
								2	S1.002	149.621	225
								0	S1.003	149.621	225
SW05	420751.464	425683.933	150.247	0.730	1350			1	S1.003	149.517	225
								0	S1.004	149.517	225
SW06	420774.463	425733.638	150.475	1.056	1350			0	S3.000	149.419	225
SW07	420771.491	425721.211	150.432	1.173	1350			1	S3.000	149.334	225
								0	S3.001	149.259	300
SW08	420771.491	425711.461	150.447	1.229	1500			1	S3.001	149.218	300
								0	S3.002	149.218	300
SW09	420771.491	425695.566	150.316	1.164	1500			1	S3.002	149.152	300
								0	S3.003	149.152	300
SW11	420795.318	425657.016	150.329	0.909	600			0	S4.000	149.420	225

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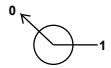
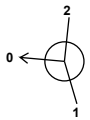
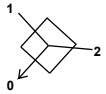
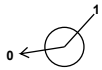
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections		Link	IL (m)	Dia (mm)
SW12	420776.651	425657.022	150.303	1.070	600			1	S4.000	149.233	225
								0	S4.001	149.233	225
SW13	420771.491	425661.883	150.271	1.184	600			1	3.000	149.237	150
								2	S4.001	149.162	225
								0	S4.002	149.087	300
SW10	420768.870	425670.793	150.275	1.302	1500			1	S4.002	149.048	300
								2	S3.003	149.048	300
								0	3.004	148.973	375
TANK	420763.065	425671.310	150.300	1.346	1	1		1	S1.004	149.503	225
								2	3.004	148.963	375
								0	1.004	148.954	375
SW14 FLOW CONTROL	420755.389	425662.857	150.212	1.268	2100			1	1.004	148.944	375
								0	S1.006	148.944	300
SW104	420752.765	425662.447	150.117	1.264	1350			1	S1.006	148.853	300
LOW SPOT	420766.277	425651.293	149.966	0.600	600			0	3.000	149.366	150

Simulation Settings

Rainfall Methodology	FEH-22	Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Rate(s)	x
Rainfall Events	Singular	Analysis Speed	Detailed	Additional Storage (m³/ha)	20.0	Check Discharge Volume	x
Summer CV	1.000	Skip Steady State	x	Starting Level (m)			

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	30	40	0	0
2	0	0	0	100	45	0	0

Node SW14 FLOW CONTROL Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	148.944	Product Number	CTL-SHE-0250-3420-1000-3420
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.300
Design Flow (l/s)	34.2	Min Node Diameter (mm)	1800

Node TANK Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	148.954
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	61

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	286.0	286.0	0.800	286.0	334.0	0.801	0.0	334.0

Node SW02 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Width (m)	4.800	Depth (m)
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	150.016	Length (m)	21.800	Inf Depth (m)
Safety Factor	2.0	Time to half empty (mins)	0	Slope (1:X)	60.0	

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Node SW03 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Width (m)	4.800	Depth (m)	
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	149.800	Length (m)	25.200	Inf Depth (m)	
Safety Factor	2.0	Time to half empty (mins)	4	Slope (1:X)	60.0		

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Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	10	149.943	0.039	2.9	0.0294	0.0000	OK
15 minute summer	SW02	11	149.755	0.045	4.0	0.0252	0.0000	OK
15 minute summer	SW03	10	149.807	0.048	3.6	0.0793	0.0000	OK
15 minute summer	SW04	11	149.686	0.065	7.4	0.0926	0.0000	OK
15 minute summer	SW05	11	149.628	0.111	16.5	0.4277	0.0000	OK
15 minute summer	SW06	11	149.448	0.029	1.5	0.0489	0.0000	OK
15 minute summer	SW07	10	149.313	0.054	5.1	0.1101	0.0000	OK
15 minute summer	SW08	11	149.296	0.078	10.8	0.2087	0.0000	OK
15 minute summer	SW09	11	149.267	0.115	20.9	0.3992	0.0000	OK
15 minute summer	SW11	10	149.470	0.049	5.4	0.0695	0.0000	OK
15 minute summer	SW12	10	149.284	0.051	5.3	0.0145	0.0000	OK
15 minute summer	SW13	11	149.178	0.091	12.7	0.0980	0.0000	OK
15 minute summer	SW10	11	149.135	0.162	39.9	0.4510	0.0000	OK
240 minute summer	TANK	148	149.116	0.162	23.0	44.0705	0.0000	OK
240 minute summer	SW14 FLOW CONTROL	148	149.115	0.171	10.7	0.5915	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	S1.001	SW02	2.9	0.562	0.066	0.1416	
15 minute summer	SW02	S1.002	SW04	3.9	0.523	0.089	0.0960	
15 minute summer	SW03	S2.000	SW04	3.5	0.752	0.199	0.0297	
15 minute summer	SW04	S1.003	SW05	7.4	0.517	0.183	0.2473	
15 minute summer	SW05	S1.004	TANK	16.4	0.926	0.380	0.0359	
15 minute summer	SW06	S3.000	SW07	1.4	0.494	0.034	0.0373	
15 minute summer	SW07	S3.001	SW08	5.0	0.435	0.070	0.1135	
15 minute summer	SW08	S3.002	SW09	10.7	0.548	0.150	0.3126	
15 minute summer	SW09	S3.003	SW10	20.7	0.865	0.290	0.5961	
15 minute summer	SW11	S4.000	SW12	5.3	0.807	0.102	0.1232	
15 minute summer	SW12	S4.001	SW13	5.3	0.815	0.101	0.0458	
15 minute summer	SW13	S4.002	SW10	12.6	0.738	0.175	0.1625	
15 minute summer	SW10	3.004	TANK	39.9	0.959	0.309	0.0989	
240 minute summer	TANK	1.004	SW14 FLOW CONTROL	10.7	0.228	0.093	0.1400	
240 minute summer	SW14 FLOW CONTROL	S1.006	SW104	10.7	1.392	0.052	0.0205	82.7

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Results for 1 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SW104	148	148.899	0.046	10.7	0.0000	0.0000	OK
15 minute summer	LOW SPOT	10	149.405	0.039	2.6	0.0433	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	LOW SPOT	3.000	SW13	2.6	0.726	0.138	0.0416	

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	10	149.952	0.048	4.5	0.0366	0.0000	OK
15 minute summer	SW02	11	149.766	0.056	6.0	0.0312	0.0000	OK
15 minute summer	SW03	10	149.819	0.060	5.4	0.1141	0.0000	OK
15 minute summer	SW04	11	149.702	0.081	11.2	0.1153	0.0000	OK
15 minute summer	SW05	11	149.659	0.142	25.1	0.5496	0.0000	OK
15 minute summer	SW06	10	149.454	0.035	2.2	0.0595	0.0000	OK
15 minute summer	SW07	11	149.331	0.072	7.7	0.1456	0.0000	OK
15 minute summer	SW08	11	149.321	0.103	16.3	0.2746	0.0000	OK
15 minute summer	SW09	11	149.298	0.146	31.6	0.5074	0.0000	OK
15 minute summer	SW11	10	149.481	0.061	8.1	0.0858	0.0000	OK
15 minute summer	SW12	10	149.297	0.064	8.0	0.0180	0.0000	OK
15 minute summer	SW13	11	149.208	0.121	19.3	0.1300	0.0000	OK
15 minute summer	SW10	11	149.179	0.206	60.4	0.5740	0.0000	OK
240 minute summer	TANK	144	149.155	0.201	30.3	54.5702	0.0000	OK
240 minute summer	SW14 FLOW CONTROL	144	149.153	0.209	15.3	0.7243	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	S1.001	SW02	4.4	0.641	0.102	0.1927	
15 minute summer	SW02	S1.002	SW04	5.9	0.592	0.137	0.1299	
15 minute summer	SW03	S2.000	SW04	5.3	0.837	0.298	0.0401	
15 minute summer	SW04	S1.003	SW05	11.3	0.576	0.279	0.3361	
15 minute summer	SW05	S1.004	TANK	24.9	1.032	0.578	0.0489	
15 minute summer	SW06	S3.000	SW07	2.1	0.555	0.051	0.0493	
15 minute summer	SW07	S3.001	SW08	7.5	0.447	0.105	0.1675	
15 minute summer	SW08	S3.002	SW09	16.1	0.584	0.226	0.4397	
15 minute summer	SW09	S3.003	SW10	31.4	0.968	0.440	0.8086	
15 minute summer	SW11	S4.000	SW12	8.0	0.895	0.154	0.1671	
15 minute summer	SW12	S4.001	SW13	7.9	0.907	0.152	0.0620	
15 minute summer	SW13	S4.002	SW10	19.1	0.737	0.266	0.2609	
15 minute summer	SW10	3.004	TANK	60.5	1.068	0.468	0.1346	
240 minute summer	TANK	1.004	SW14 FLOW CONTROL	15.3	0.248	0.132	0.1826	
240 minute summer	SW14 FLOW CONTROL	S1.006	SW104	15.3	1.515	0.074	0.0268	111.2

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Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SW104	144	148.908	0.055	15.3	0.0000	0.0000	OK
15 minute summer	LOW SPOT	10	149.415	0.049	4.0	0.0544	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	LOW SPOT	3.000	SW13	3.9	0.816	0.212	0.0569	

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	11	149.999	0.095	16.4	0.0716	0.0000	OK
15 minute summer	SW02	11	149.983	0.273	22.0	0.1525	0.0000	SURCHARGED
15 minute summer	SW03	12	150.007	0.248	19.9	2.2545	0.0000	FLOOD RISK
15 minute summer	SW04	11	149.956	0.335	32.9	0.4797	0.0000	SURCHARGED
15 minute summer	SW05	11	149.877	0.360	80.3	1.3930	0.0000	SURCHARGED
15 minute summer	SW06	11	149.817	0.398	12.0	0.6746	0.0000	SURCHARGED
15 minute summer	SW07	11	149.814	0.555	25.7	1.1260	0.0000	SURCHARGED
15 minute summer	SW08	11	149.806	0.588	55.6	1.5641	0.0000	SURCHARGED
15 minute summer	SW09	11	149.750	0.598	109.7	2.0837	0.0000	SURCHARGED
15 minute summer	SW11	11	149.581	0.161	29.8	0.2261	0.0000	OK
120 minute summer	SW12	82	149.541	0.308	13.2	0.0872	0.0000	SURCHARGED
120 minute summer	SW13	82	149.541	0.454	30.8	0.4885	0.0000	SURCHARGED
120 minute summer	SW10	82	149.540	0.567	93.3	1.5766	0.0000	SURCHARGED
120 minute summer	TANK	84	149.538	0.584	132.8	158.7845	0.0000	SURCHARGED
120 minute summer	SW14 FLOW CONTROL	84	149.535	0.591	35.2	2.0477	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	S1.001	SW02	16.2	0.817	0.374	0.7719	
15 minute summer	SW02	S1.002	SW04	20.7	0.649	0.477	0.5060	
15 minute summer	SW03	S2.000	SW04	19.0	1.080	1.075	0.1118	
15 minute summer	SW04	S1.003	SW05	33.9	0.852	0.840	0.6827	
15 minute summer	SW05	S1.004	TANK	80.2	2.017	1.861	0.0798	
15 minute summer	SW06	S3.000	SW07	10.3	0.619	0.243	0.5082	
15 minute summer	SW07	S3.001	SW08	27.5	0.454	0.383	0.6866	
15 minute summer	SW08	S3.002	SW09	56.4	0.801	0.791	1.1193	
15 minute summer	SW09	S3.003	SW10	108.1	1.535	1.512	1.7542	
15 minute summer	SW11	S4.000	SW12	29.0	1.087	0.557	0.6548	
120 minute summer	SW12	S4.001	SW13	12.1	0.886	0.233	0.2819	
120 minute summer	SW13	S4.002	SW10	30.2	0.652	0.422	0.6541	
120 minute summer	SW10	3.004	TANK	91.3	0.856	0.706	0.2620	
120 minute summer	TANK	1.004	SW14 FLOW CONTROL	35.2	0.369	0.305	0.3270	
120 minute summer	SW14 FLOW CONTROL	S1.006	SW104	34.2	1.822	0.166	0.0500	275.2

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Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	SW104	136	148.935	0.082	34.2	0.0000	0.0000	OK
15 minute summer	LOW SPOT	11	149.593	0.227	14.6	0.2538	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	LOW SPOT	3.000	SW13	13.9	0.955	0.747	0.2078	

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW01	11	150.139	0.235	21.7	0.1776	0.0000	SURCHARGED
15 minute summer	SW02	12	150.096	0.386	28.0	0.4961	0.0000	SURCHARGED
15 minute summer	SW03	13	150.107	0.348	26.3	4.6468	0.0000	FLOOD RISK
15 minute summer	SW04	12	150.055	0.434	40.5	0.6205	0.0000	FLOOD RISK
15 minute summer	SW05	11	149.956	0.439	98.4	1.6993	0.0000	FLOOD RISK
15 minute summer	SW06	11	150.175	0.756	10.8	1.2832	0.0000	FLOOD RISK
15 minute summer	SW07	11	150.170	0.911	34.0	1.8465	0.0000	FLOOD RISK
15 minute summer	SW08	11	150.155	0.937	72.6	2.4949	0.0000	FLOOD RISK
15 minute summer	SW09	11	150.063	0.911	143.5	3.1761	0.0000	FLOOD RISK
60 minute summer	SW11	57	149.929	0.509	27.7	0.7151	0.0000	SURCHARGED
60 minute summer	SW12	57	149.928	0.695	25.9	0.1968	0.0000	SURCHARGED
60 minute summer	SW13	57	149.928	0.841	61.6	0.9056	0.0000	SURCHARGED
60 minute summer	SW10	57	149.927	0.954	195.4	2.6538	0.0000	SURCHARGED
60 minute summer	TANK	57	149.926	0.972	271.1	217.4958	0.0000	SURCHARGED
60 minute summer	SW14 FLOW CONTROL	57	149.923	0.979	37.1	3.3910	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	SW01	S1.001	SW02	20.6	0.789	0.474	1.1035	
15 minute summer	SW02	S1.002	SW04	25.1	0.665	0.578	0.5060	
15 minute summer	SW03	S2.000	SW04	23.7	1.348	1.342	0.1118	
15 minute summer	SW04	S1.003	SW05	41.9	1.053	1.038	0.6827	
15 minute summer	SW05	S1.004	TANK	98.0	2.464	2.273	0.0798	
15 minute summer	SW06	S3.000	SW07	12.9	0.624	0.305	0.5082	
15 minute summer	SW07	S3.001	SW08	36.0	0.511	0.501	0.6866	
15 minute summer	SW08	S3.002	SW09	73.9	1.049	1.036	1.1193	
15 minute summer	SW09	S3.003	SW10	140.5	1.995	1.965	1.7542	
60 minute summer	SW11	S4.000	SW12	25.9	1.035	0.498	0.7424	
60 minute summer	SW12	S4.001	SW13	25.0	0.950	0.480	0.2819	
60 minute summer	SW13	S4.002	SW10	60.7	0.863	0.847	0.6541	
60 minute summer	SW10	3.004	TANK	192.8	1.748	1.490	0.2620	
60 minute summer	TANK	1.004	SW14 FLOW CONTROL	37.1	0.469	0.321	0.3270	
60 minute summer	SW14 FLOW CONTROL	S1.006	SW104	34.2	1.822	0.166	0.0500	304.0

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	SW104	14	148.935	0.082	34.2	0.0000	0.0000	OK
60 minute summer	LOW SPOT	57	149.929	0.563	13.6	0.6282	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute summer	LOW SPOT	3.000	SW13	12.5	0.979	0.675	0.2078	

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Appendix H - SuDS Operations and Maintenance Regime

HEXA

GOMERSAL ST MARYS PRIMARY SCHOOL

SuDS Operations and Maintenance Regime

Hexa ref: SRP1134-HEX-XX-XX-T-C-0002
Date: 17 March 2026
Revision: P01

Engineering opportunity.

hexaconsulting.co.uk

Revision	Description	Issued	Checked	Date
P01	Issued for planning	SM	RR	17/03/26

Author	Signature	Date
Sam McGill **Senior Engineer** BSc (Hons)		17/03/26

Checker	Signature	Date
Ross Roebuck Principal Engineer BSc (Hons) GMICE		17/03/26

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1.0 Introduction

This SuDS Operations and Maintenance Regime document is intended to give an overview of the operation and maintenance for the range of SuDS features included within the Drainage Strategy and in relation to typical details only. Where proprietary products are specified, the manufacturer's instructions and recommendations should be followed in priority to this document unless specifically noted otherwise due to project constraints.

The recommended operations and frequencies are typical only and should be more frequent initially to ensure that there are no unforeseen issues with the operation and then adjusted to suit the site requirements.

2.0 Maintenance Regime

On site drainage systems and SuDS features would remain under private ownership and would be maintained by an estates management company or the owner/occupier in accordance with the following guidance:

2.1 Main Drainage System

Gutters, rainwater pipes, outlets, gullies, and drainage channels would be inspected and thoroughly cleaned once a year. All manholes would be inspected once a year and where necessary, cleaned out at the same time. Any defects to the brickwork, benching cover or frame would be made good. Attention would be made to the Confined Spaces Regulations 1997 and the provisions contained therein for access to confined spaces. Details for entrance to manholes and separator tanks are contained in the above legislation.

2.2 Cleaning of the Drainage System

The following operations would be carried out during the periodic cleaning of the drainage system.

1. Covers of inspection chambers and manholes would be removed and the sides, benching and channels cleaned.
2. Intercepting traps, if fitted, would be plunged and flushed with clean water. Care would be taken to see that the stopper in the rodding eye is securely replaced.
3. Main and branch drains should be cleaned and afterwards would be flushed with clean water. Any obstructions found would be removed and not flushed into the system.
4. Periodically, accumulated deposits in gullies would be removed. The traps would then be plunged and thoroughly flushed out with clean water.
5. Covers of inspection chambers and gullies would be replaced, bedded in suitable grease or other sealing material and/or bolted down as appropriate to the type. Missing bolts and broken items would be renewed.

2.3 Methods of Cleaning

The drainage system would be cleaned, as appropriate, using one or more of the following methods:

a. Rodding.

Appropriate cleaning tools and techniques should be chosen to avoid damage to the pipework to be cleaned. A set of rods with appropriate ends is basic useful equipment. It is important that correctly designed proprietary ends are used on the rods. Makeshift devices attached to the ends of rods should be avoided as they are not as effective as the correctly designed article and could become detached and create a blockage which would be difficult to remove. Furthermore, it is possible that such devices could cause damage to the pipeline. If the rods have brass ferrules, they should be checked to ensure that their fastenings are secure and that there are no protruding shoulders or fastenings as these can cause damage to drain lines, especially when entering through rodding eyes.

b. Jetting.

High pressure jetting techniques are suitable for use with all currently available pipe materials and should also be considered.

c. Hydraulic rams compressed air or other gases.

Equipment is available for use with all sizes of drain likely to be encountered in building drainage and is suitable for use with all currently available pipe materials. The principle of operation is that a shock wave is induced and is transmitted by water to the point of blockage, and the technique is effective where the pipe is surcharged or can be filled with water from the blockage to a point where the equipment can be used.

2.4 Permeable Pavements

2.4.1 Operation

The permeable pavements are intended to be water quality and attenuation storage features and to be dry, except during rainfall events.

Where applicable the surface has been designed to be permeable/contain gaps where rain can flow through the upper construction layers into the voids between interlocking stones which make up the subbase.

The surfacing and drainage around the new buildings has generally been designed to facilitate access for maintenance vehicles.

2.4.2 Inspection and Maintenance Regime

Regular inspection and maintenance is important for the effective operation of the permeable pavement.

A recommended schedule is detailed in the table below.

Maintenance Schedule	Required Action	Frequency
Monitoring (to be undertaken more regularly within the first year of operation and adjusted as required)	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 hours after large storms.
	Inspect silt accumulation rates and establish appropriate brushing frequencies. Silt can also be caused by adjacent landscaping areas which should be reprofiled to provide a flat area or berm adjacent to the paving.	Annually.
	Monitor inspection chambers.	Annually.
Regular maintenance\inspection	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 and as per landscape architect's specification.
	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. This could include replacement of the jointing and bedding material. The upper geotextiles layer may also need replacing if clogged and Terram 1000 has a life span of 25 years.	As required (if infiltration performance is reduced as a result of significant clogging).

2.5 Attenuation Storage Tanks

2.5.1 Operation

Attenuation storage tanks are intended to be surface water attenuation storage features to accommodate the balance of surface water runoff due to restricted discharge rates. These features are intended to be dry except during and following rainfall events.

Surface water will fill the attenuation storage tanks as the water level rises within the drainage system due to the flow control devices. Following rainfall events, water will drain down through the piped drainage system and the water level will slowly fall.

Access for maintenance has been provided through inspection chambers.

2.5.2 Inspection and Maintenance Regime

Regular inspection and maintenance is important for the effective operation of the features.

Sediment\material removal should be undertaken in consultation with the guidance provided by environmental regulator.

Maintenance Schedule	Required Action	Frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary.	Annually
	Remove sediment from pre-treatment structures and/or internal forebays	Monthly, or as required
Remedial actions	Repair/rehabilitate inlets, outlet, overflows and vents	As required
Monitoring	Inspect/check all inlets, outlets, overflows and vents to ensure that they are in good condition and operating as designed. Inspect the upstream catchpit chambers and clear of any silt.	Every year
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required

2.6 Flow Control Chambers

Flow control chambers are proprietary products and the manufacturer's recommendations should be followed.

2.6.1 Operation

Flow control chambers are intended to restrict the surface water runoff discharge rate from the site to a designed rate utilising techniques such as an orifice plate, vortex separator or mechanical float control.

2.6.2 Inspection and Maintenance Regime

Regular inspection and maintenance is important to identify areas which may have been obstructed/clogged and may not be drain efficiently, thus exposing the development to a greater level of flood risk.

A recommended schedule is detailed in the table below.

Maintenance Schedule	Required Action	Frequency
Monitoring (to be undertaken more regularly within the first year of operation and adjusted as required)	Initial inspection should be provided using a post construction CCTV survey.	N/A
	Inspect for evidence of poor operation via water level in chambers. If required, take remedial action.	3-monthly, 48 hours after large storms.
Occasional maintenance	Check and remove large vegetation growth near pipe runs.	6 monthly
Remedial actions	Open penstock where poor performance is identified. Inspect and rectify any issues found.	As required.
	If continued poor performance, jet and CCTV survey.	As required.
	Seek advice as to remediation techniques suitable for the type of performance issue and location.	As required If above does not improve performance.

2.7 Pipes & Manholes

2.7.1 Operation

Pipes are the main conveyance for surface water across the development. They are to be dry except during rainfall events. All pipes have been designed to be self-cleansing as a result of the gradients proposed.

Access for maintenance is provided through access chambers, manholes and rodding eyes.

2.7.2 Inspection and Maintenance Regime

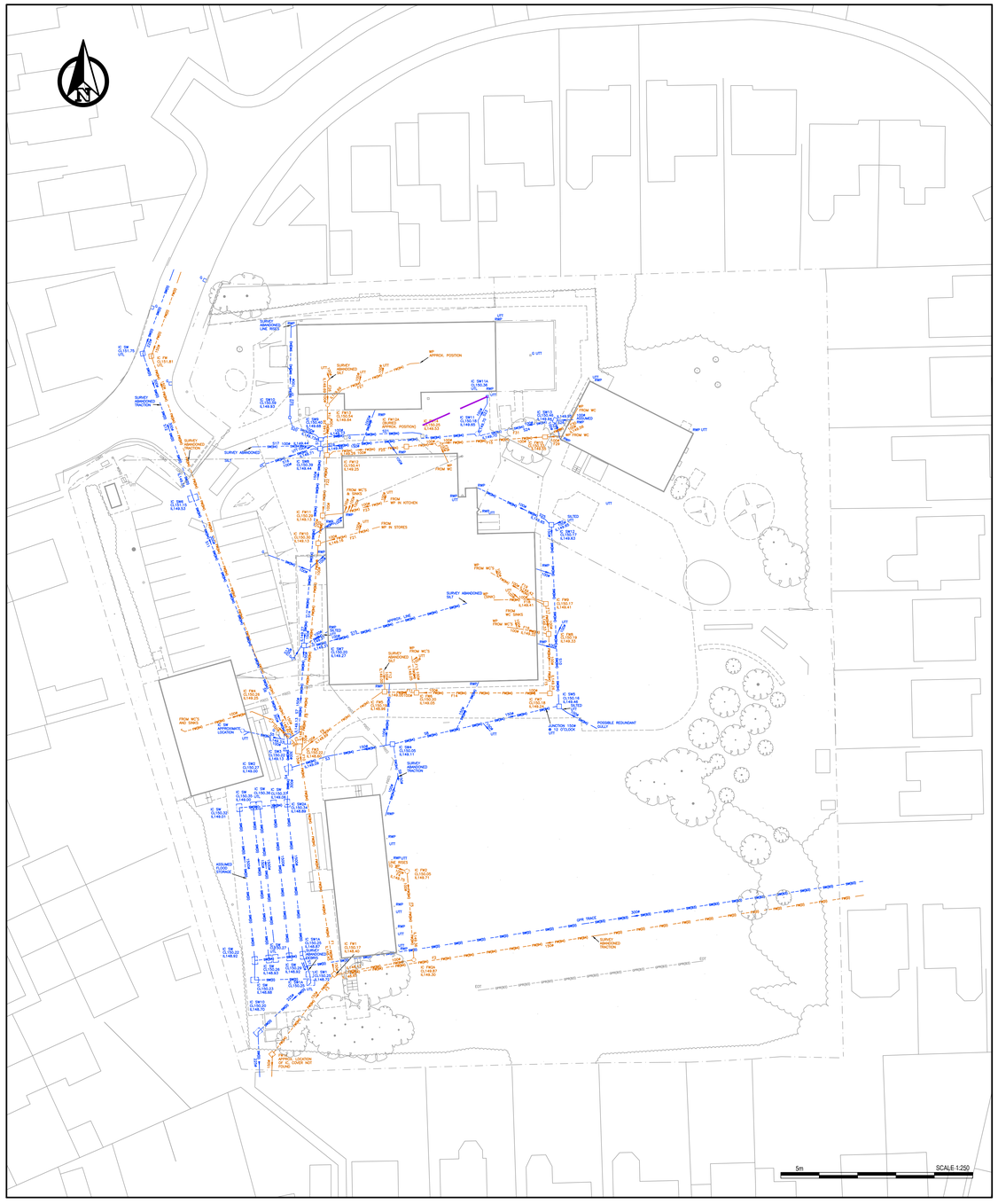
Regular inspection and maintenance is important to identify areas which may have been obstructed/clogged and may not be drained efficiently; thus, exposing the development to a greater flood risk level.

Sediment\material removal should be undertaken with reference to relevant guidance from the environmental regulator, especially where run-off is taken from potentially contaminated areas such as vehicular access points/parking.

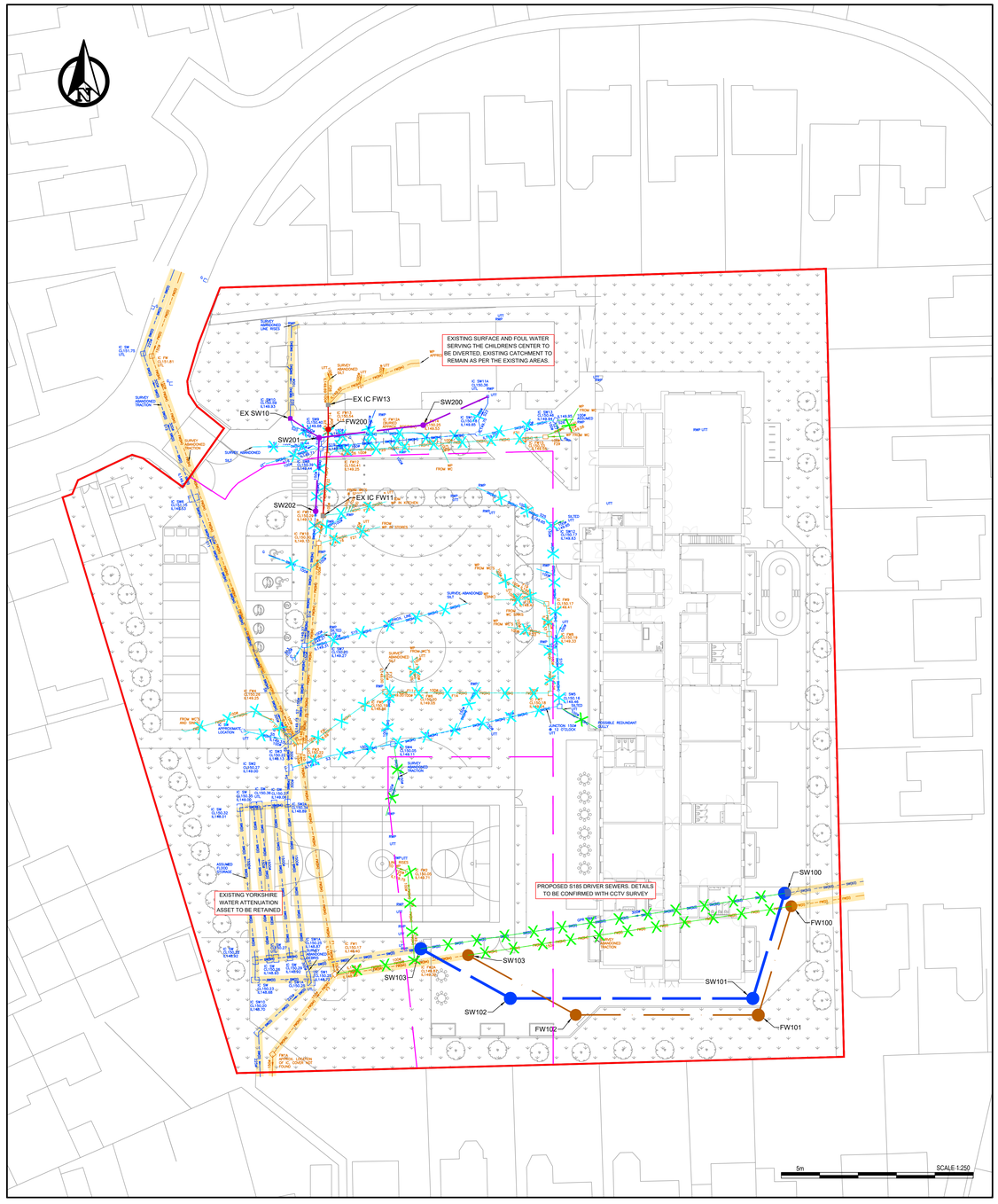
A recommended schedule is detailed in the table below.

Maintenance Schedule	Required Action	Frequency
Monitoring (to be undertaken more regularly within the first year of operation and adjusted as required)	Initial inspection should be provided in the form of a post construction CCTV survey.	N/A
	Inspect for evidence of poor operation via water level in chambers. If required, take remedial action.	Every 3 months, 48 hours after large storms.
Occasional maintenance	Check and remove large vegetation growth near pipe runs.	Every 6 months
Remedial actions	Rod through poorly performing runs as initial remediation.	As required.
	If poor performance persists, jet and CCTV survey poorly performing runs.	As required.
	Seek advice for the remediation techniques suitable for the type of issue and its location.	As required If above does not improve performance.

Appendix I - Existing Drainage Abandonment



CCTV SURVEY OVERLAYED ONTO EXISTING TOPOGRAPHIC SURVEY



CCTV SURVEY OVERLAYED ONTO PROPOSED LANDSCAPE PLAN

Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.
5. This drawing should be printed and read in colour.

Design Notes

1. DRAWINGS PROPOSALS BASED ON BELOW INFORMATION:

   N1471-ONE-ZZ-XX-M2-L-0001_Site
   N1471-ONE-Levels
   2878_Topographic and Services Survey_Final.

Legend

- RED LINE BOUNDARY
- SW(84) — EXISTING SURFACE WATER DRAINAGE
- FW(84) — EXISTING FOUL WATER DRAINAGE
- SW(83) — EXISTING SURFACE WATER DRAINAGE RETAINED
- FW(84) — EXISTING FOUL WATER DRAINAGE RETAINED
- PHASE 1 DRAINAGE TO BE ABANDONED
- PHASE 2 DRAINAGE TO BE ABANDONED
- PHASING BOUNDARY
- PROPOSED S185 FOUL WATER DIVERSIONS
- TEMPORARY DIVERTED SURFACE WATER
- PROPOSED SURFACE WATER DIVERSIONS
- TEMPORARY DIVERTED FOUL WATER

REV	DATE	DESCRIPTION
P01	17.03.26	PRELIMINARY ISSUE

CLIENT

Department for Education

CONTRACTOR

BOWMER + KIRKLAND

CONSULTANT

HEXA

PROJECT

GOMERSAL ST MARYS PRIMARY SCHOOL

DRAWING TITLE

SEWER ABANDONMENT PLAN

DEIR REF : 203, 165

DRAWING PURPOSE

PRELIMINARY

DRAWN BY	DATE	CHK'D BY	SCALE	MEDIA
SM	17.03.26	RR	1:250	A0

PROJECT - ORIGINATOR - ZONE - LEVEL - TYPE - ROLE - NUMBER	REVISION
SRP1134-HEX-ZZ-ZZ-D-C-9255	P01

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