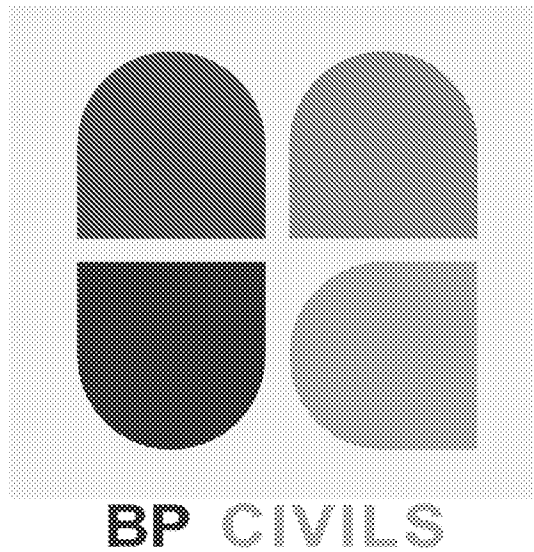




**LAND AT WINGS NURSERY, LIDSEY
ROAD, WOODGATE PO20 3SU**

RESIDENTIAL DEVELOPMENT

Surface Water Drainage Completion Report

Prepared on Behalf of

Thakeham Partnerships

D1990/COMP/1.0

February 2024

DOCUMENT CONTROL

Project: Land at Wings Nursery, Lidsey Road, Woodgate PO20 3SU
Residential Development

Document: Surface Water Drainage Completion Report

Client: Thakeham Partnerships

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1 INTRODUCTION

- 1.1.1 BP Civils is instructed by Thakeham Partnerships to prepare a Surface Water Drainage Completion Report for the surface water drainage system installed at Land at Wings Nursery, Lidsey Road, Woodgate PO20 3SU.
- 1.1.2 BP Civils is independent of the Contractor, Joyce Groundworks, therefore presenting no conflict of interests in the preparation of this completion report.
- 1.1.3 Condition 35 of the Planning Decision Notice issued by Arun District Council (AL/34/22/PL), dated 21st July 2022 states that;
- ***Immediately following implementation of the approved surface water drainage system and prior to occupation of any part of the development, the developer/applicant shall provide the local planning authority with as-built drawings of the implemented scheme together with a completion report prepared by an independent engineer that confirms that the scheme was built in accordance with the approved drawing/s and is fit for purpose. The scheme shall thereafter be maintained in perpetuity.***
- 1.1.4 The Planning Decision Notice is contained within **Appendix A**.
- 1.1.5 This Surface Water Drainage Completion Report has been prepared to support the discharge of Condition 35.

1.2 Description of the Surface Water Drainage System

- 1.2.1 The surface water drainage system which has been installed follows the site-wide drainage design. The surface water drainage design is shown on **drawing D1990-13.100 'Technical Layout'** and is included within **Appendix B**.
- 1.2.2 An as-built survey has been completed by Happy Drains Ltd, and is included within **Appendix C**.
- 1.2.3 Run-off from the roofs and areas of hard-standing associated with the development is collected and discharges to private drainage infrastructure. No part(s) of the surface water drainage system have been offered for adoption. The piped network discharges to an attenuation basin which in turn discharges to the culverted section of the ordinary watercourse located adjacent to Lidsey Road, at a restricted rate, as per the approved design.
- 1.2.4 Permeable paving is provided across the development, as shown on **drawing D1990-13.100 'Technical Layout'**. The permeable paving is lined/tanked, providing surface water storage functionality. Diffuser units are located at the depth of the sub-base construction, allowing the effective conveyance of collected run-off to the piped surface water drainage system.

2 APPROVED SURFACE WATER DRAINAGE DESIGN

2.1 Surface Water Drainage Design

2.1.1 A Flood Risk Assessment and Drainage Strategy was prepared by BP Civils, which was submitted as part of the planning application for the development. Post-planning, BP Civils has prepared the full civil engineering detailed design for the development, following the principles established as per the original Flood Risk Assessment and Drainage Strategy where surface water drainage is concerned.

2.1.2 Condition 9 of the Planning Decision Notice issued by Arun District Council, dated 21st July 2022 states that;

- *Development shall not commence, other than works of site survey and investigation, until full details of the proposed surface water drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The design should follow the hierarchy of preference for different types of surface water drainage disposal systems as set out in Approved Document H of the Building Regulations, and the recommendations of the SuDS Manual produced by CIRIA. Winter groundwater monitoring to establish highest annual ground water levels and winter Percolation testing to BRE 365, or similar approved, will be required to support the design of any infiltration drainage. No building shall be occupied until the complete surface water drainage system serving the property has been implemented in accordance with the agreed details and the details so agreed shall be maintained in good working order in perpetuity.*

2.1.3 Condition 9 has been discharged by Arun District Council under AL/193/22/DOC, the decision notice is dated 13th July 2023. The decision notice is included in **Appendix G**.

2.2 Key Elements

2.2.1 The key elements of the surface water drainage system are listed below;

- Attenuation Basin Inlet/Outlet (including Basin)
- Catchpits
- Flow Control Device
- Manholes
- Permeable Paving (including diffuser units)
- Rainwater pipes

2.2.2 Full details relating to each element have been provided in **Section 3 – 'Installation of Drainage Elements'**.

2.2.3 **Appendix D** contains a register of 'critical drainage assets' associated with the surface water drainage system.

3 INSTALLATION OF DRAINAGE ELEMENTS

3.1 Assessment of Drainage Installation

3.1.1 Assessment of the installed surface water drainage system has been undertaken via the follow methods;

- Site inspection/walkover by BP Civils
- Regular communication with the Contractor (Joyce Groundworks) via the client (Thakeham Partnerships) during the construction phase
- Review of photographs taken by the Contractor (Joyce Groundworks) during the construction phase
- As-built survey completed by Happy Drains Ltd

Commentary relating to the key elements of the surface water drainage system is provided below (3.2 to 3.11).

3.1.2 **Appendix D** contains a register of 'critical drainage assets' associated with the surface water drainage system.

3.2 Attenuation Basin Inlet/Outlet (including Basin)

3.2.1 The attenuation basin is served by a single inlet/outlet pipe. The 450mm diameter pipe has been constructed through a concrete bagwork headwall with concrete bagwork wingwalls.



Attenuation Basin during formation, and confirmation of high groundwater (during construction)



Attenuation Basin



Attenuation Basin



Inlet/Outlet Pipe and Headwall

- 3.2.2 The basin itself has been constructed with an impermeable liner, overlain with clay to counteract potential buoyancy/floatation in respect of shallow groundwater levels.

3.3 Catchpits

- 3.3.1 Catchpits have been constructed in accordance with the approved surface water drainage design as a measure to capture silt and sediment, to reduce the risk of blockage to the system. Catchpits will require inspection and periodic clearance in accordance with the approved Drainage Maintenance Statement in order to reduce the risk of blockage.



Recessed cover for the catchpit at Plot 20 and Plot 21 shared driveway

3.4 Flow Control Device(s)

- 3.4.1 The HydroBrake flow control device restricts the rate of flow leaving the site, discharging to the culverted ordinary watercourse adjacent to Lidsey Road.
- 3.4.2 The HydroBrake installed within the flow control chamber is the model as specified in the surface water drainage design.
- 3.4.3 An emergency drain down cord has been fitted to assist in draining down the chamber and/or system in the event of blockage, failure or during times of maintenance/servicing.

3.5 Manholes

- 3.5.1 Manholes have all been constructed in accordance with the approved surface water drainage design.



Example manholes on site (during construction)



Manholes F16 (left) and S17 (right)



Manholes F17 (left) and S18 (right)

- 3.5.2 Critical drainage asset records are contained within **Appendix D** providing full details of each asset (manhole).

3.6 Permeable Paving

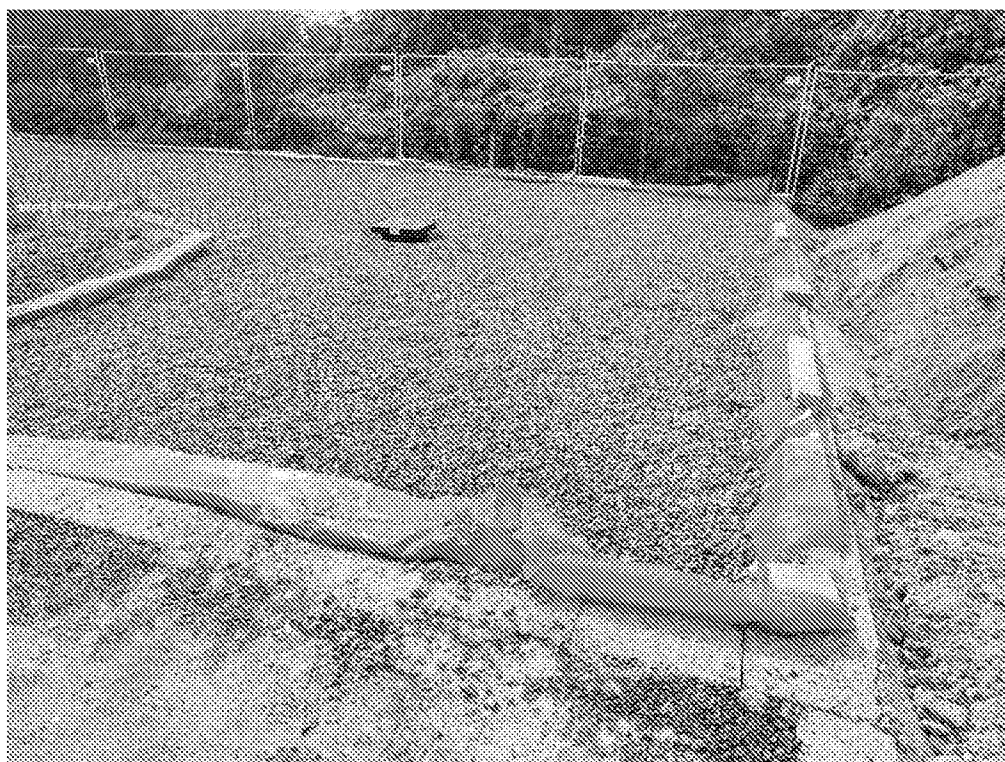
- 3.6.1 The permeable paving constructed on-site provides a self-draining surface which offers surface water storage capability as well. The permeable paving is lined/tanked with an impermeable liner, preventing groundwater ingress.



Permeable Paving at Plot 16 and Plot 17 shared driveway



Permeable Paving at Plot 20 and Plot 21 shared driveway



Confirmation of permeable paving membrane/liner and sub-base material at Plot 20 and Plot 21 shared driveway (during construction)



Confirmation of aggregate used within sub-base of permeable paving adjacent to Plots 51 and 52 (during construction)



Preparation of permeable paved area adjacent to Plots 51 and 52 (during construction)



Completed permeable paving on approach to Plots 7-10

- 3.6.2 Diffuser units are located at formation level of the sub-base layer of the permeable paving construction, allowing collected run-off to discharge to the piped surface water drainage system.



Diffuser unit provided in conjunction with permeable paving (during construction)

3.7 Rainwater Pipes

- 3.7.1 Rainwater pipes have been installed to assist in draining the roof area of all plots. All rainwater pipes are positively drained, discharging to the wider surface water drainage system constructed.



Rainwater pipe at Plot 8



Rainwater pipe at Plot 18 (roof level – during construction)



Rainwater pipe at Plot 18 (demonstrating below ground connectivity – during construction)

3.8 Road Gullies

- 3.8.1 Road gullies have been constructed to collect surface water run-off for areas which are not self-draining (permeable paving).
- 3.8.2 The road gullies discharge to the below-ground piped surface water drainage system.
- 3.8.3 Road gullies will require inspection and periodic clearance in accordance with the approved Drainage Maintenance Statement in order to reduce the risk of blockage.



Road gully constructed within visitor parking bays opposite Plot 7 (during construction, prior to surface course application)

4 'AS BUILT' STATUS

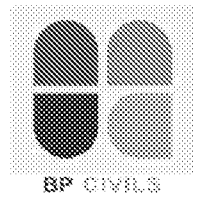
- 4.1.1 Happy Drains Ltd has completed an as-built survey of the drainage installation, as contained within **Appendix C**.
- 4.1.2 The surface water drainage system which has been installed follows the site-wide drainage design. The approved design is included within **Appendix B**.
- 4.1.3 There has been no unauthorised land raising or watercourse infilling/culverting/alterations. Works to the ordinary watercourse as required in association with the development have been consented by Arun District Council, with Ordinary Watercourse Consents having been secured.
- 4.1.4 No trees have been located in areas which would be detrimental to the drainage infrastructure.

5 MAINTENANCE SCHEDULE FOR DRAINAGE SYSTEM

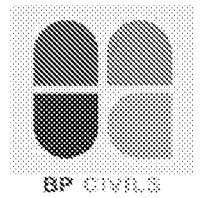
- 5.1.1 Condition 11 of the Planning Decision Notice issued by Arun District Council, dated 21st July 2022 states that;
- *Development shall not commence until full details of the maintenance and management of the surface water drainage system is set out in a site-specific maintenance manual and submitted to, and approved in writing, by the Local Planning Authority. The manual is to include details of financial management and arrangements for the replacement of major components at the end of the manufacturer's recommended design life. Upon completed construction of the surface water drainage system, the owner or management company shall strictly adhere to and implement the recommendations contained within the manual.*
- 5.1.2 Condition 11 has been discharged by Arun District Council, dated 21st October 2022. The approval notice is contained within **Appendix F**.
- 5.1.3 No part(s) of the surface water drainage system have been offered for adoption. The system will therefore be maintained privately, in accordance with the approved Drainage Maintenance Statement.
- 5.1.4 Failure to undertake the stated maintenance activities at the required frequencies has the potential to present an increased risk of flooding.

6 CONCLUSION

- 6.1.1 This Surface Water Drainage Completion Report has been prepared to assist in the discharge of Condition 35 of Decision Notice AL/34/22/PL.
- 6.1.2 An as-built survey has been completed by Happy Drains Ltd, as contained within **Appendix C**.
- 6.1.3 The surface water drainage system which has been installed follows the site-wide drainage design and is deemed fit for purpose.
- 6.1.4 Maintenance activities shall be undertaken in accordance with the approved Drainage Maintenance Statement to ensure that the system continues to function as intended, through its design.



APPENDICES



Appendix A

Arun District Council Planning Decision Notice (AL/34/22/PL)

Application for Planning Permission

DECISION NOTICE

Application Ref: AL/34/22/PL

1 To Addressee

Thakeham Homes Ltd
Thakeham House
Stane Street
BILLINGSHURST
RH14 9GN

2 Site Address

Land At Wings Nursery
Lidsey Road
Woodgate
PO20 3SU

3 Description of Development

Variation of conditions imposed under AL/20/21/PL relating to conditions 2-plans condition (three bungalows changed to two storey houses, other elevation detail changes and highway drawings amended to reflect layout changes) and 5-hours of demolition/construction (to make it so that the additional bat working restrictions do not apply outside of bat hibernation times).

4 In pursuance of their powers under this Act and related Orders and Regulations the Council **PERMIT** this development to be carried out in accordance with the application and plans and subject to the following conditions.

- 1 The development hereby permitted shall be begun before the expiration of 3 years from the date of the planning permission under AL/20/21/PL (01/03/22).

Reason: To comply with Section 91 of the Town and Country Planning Act 1990 (as amended).

- 2 The development hereby approved shall be carried out in accordance with the following approved plans:

2019/6115/001 Rev J Access Overview and Visibility Splays;
2019/6115/002 Rev J Refuse Vehicle Swept Path Analysis;
2019/6115/003 Rev J Car and Fire Tender Swept Path Analysis;
2019/6115/004 Rev L Secondary Access Visibility Splay and Hook Lane Cycle Parking;
2019/6115/005 Rev J Secondary Access Car and Fire Tender Swept Path Analysis;
2019/6115/006 Rev I Internal Layout Visibility Splays;
2019/6115/007 Rev K Internal Layout Turning Head Swept Path Analysis;

2019/6115/008 Rev J Refuse and Car Passing Swept Path Analysis;
 2019/6115/009 Rev K Fire Tender Access Swept Path Analysis;
 2019/6115/010 Rev K Car Parking Swept Path Analysis;
 2019/6115/011 Rev L NMU Offsite Works Overview;
 19-121_0001 Site Location Plan Rev 3;
 19-121_0003 Proposed Block Plan Rev 6;
 19-121_0004 Proposed Site Plan Rev 9;
 19-121_0060 Site Sections 1 Rev 2;
 19-121_0061 Site Sections 2 Rev 3;
 19-121_0008 Cycle store and substation details Rev 1;
 19-121_0110 Plans and Elevations Units 1-2 Rev 3;
 19-121_0111 Plans and Elevations Units 3-4 Rev 3;
 19-121_0112 Plans and Elevations Units 5-6 Rev 1;
 19-121_0113 Plans and Elevations Units 7-8 Rev 1;
 19-121_0114 Plans and Elevations Units 9-10 Rev 1;
 19-121_0115 Plans and Elevations Units 11-12 Rev 4;
 19-121_0116 Plans and Elevations Units 13-14 Rev 1;
 19-121_0117 Plans and Elevations Units 15-16 Rev 1;
 19-121_0118 Plans and Elevations Units 17-18 Rev 4;
 19-121_0119 Plans and Elevations Units 19-21 Rev 1;
 19-121_0120 Plans and Elevations Units 22-23 Rev 1;
 19-121_0121 Plans and Elevations Units 24-27 Rev 1;
 19-121_0122 Plans and Elevations Units 28-29 Rev 1;
 19-121_0123 Plans and Elevations Units 30-31 Rev 1;
 19-121_0124 Plans and Elevations Units 32-33 Rev 1;
 19-121_0125 Plans and Elevations Units 34-35 Rev 4;
 19-121_0126 Plans and Elevations Units 36-37 Rev 1;
 19-121_0127 Plans and Elevations Units 38-39 Rev 2;
 19-121_0128 Plans and Elevations Units 40-41 Rev 1;
 19-121_0129 Plans and Elevations Units 42-43 Rev 2;
 19-121_0130 Plans and Elevations Units 44-45 Rev 2;
 19-121_0131 Plans and Elevations Units 46-47 Rev 2;
 19-121_0142 Plans and Elevations Units 48-49 Rev 1
 19-121_0143 Plans and Elevations Units 50-51 Rev 1
 19-121_0132 Plans and Elevations Units 52-54 Rev 1;
 19-121_0133 Plans and Elevations Units 55-56 Rev 1;
 19-121_0134 Plans and Elevations Units 57-58 Rev 1;
 19-121_0135 Plans and Elevations Units 59-60 Rev 1;
 19-121_0136 Plans and Elevations Units 61-62 Rev 6;
 19-121_0137 Plans and Elevations Unit 63 Rev 4;
 19-121_0138 Plans and Elevations Units 64-65 Rev 1;
 19-121_0139 Plans and Elevations Units 66-67 Rev 1;
 19-121_0140 Plans and Elevations Unit 68-69 Rev 1;
 19-121_0141 Plans & Elevations Units 70-71 Rev 1;

Ecology Assessment (ref DFA21007V3);
 Bat Survey Report (ref 9896.21 v2, 10/07/20);
 Reptile Survey (ref DFA21027V2, May 21);
 Habitat Suitability Index & eDNA Test Report (letter dated 12 June 2019);
 The Arboricultural Report (incorporating Arboricultural Impact Assessment and Method Statement), ref. B/0300/21, Jan 2021; and
 The separately amended Appendix 6 "Development Proposal Plan" (13/05/21), Appendix 7 "Tree

Protection Plan" (13/08/21), Appendix 13 - Tree 1 detail phase 1 protection (13/08/21), Appendix 14 - Tree 1 detail phase two protection (13/08/21) and Appendix 15 - T15 detail.

Reason: For the avoidance of doubt and in the interests of amenity and the environment in accordance with policies QE SP1, D DM1, ENV DM5, T SP1 and T DM1 of the Arun Local Plan.

- 3 The preparation and development of the site must be carried out in accordance with the protection and mitigation measures as set out within the submitted Soil Resource Plan by Geo Environmental Soils Limited ref GE192231-SRP-JAN21 (27/01/21). The soil protection/mitigation measures shall be implemented as per the document and then permanently adhered to throughout the construction process.

Reason: In accordance with Arun Local Plan policy SO DM1 and the National Planning Policy Framework.

- 4 The development shall be carried out in complete accordance with the precautionary approach, mitigation measures and other enhancements as set out in the following documents:

Ecology Assessment (ref DFA21007V3) - section 6 "Impacts, Mitigation and Enhancements";
Bat Survey Report (ref 9896.21 v2, 10/07/20) - section 5 "Summary & Recommendations";
Reptile Survey (ref DFA21027V2, May 21) - section 4 "Mitigation";
Habitat Suitability Index & eDNA Test Report (letter dated 12 June 2019) - "Evaluation and Recommendations" section;
Information to Inform a Habitat Regulations Assessment (ref DFA21025V2); and
The Biodiversity Enhancement Strategy (March 2022) as agreed through AL/33/22/DOC.

The mitigation measures shall be implemented in full and permanently adhered to throughout the development of the site.

Reason: To mitigate harm to Bats, Great Crested Newts, reptiles and other wildlife species in accordance with Arun Local Plan policy ENV DM5 and the National Planning Policy Framework.

- 5 No demolition/construction activities shall take place other than from 08:00 hours until 18:00 hours (Monday to Friday) and from 08:00 hours until 13:00 hours (Saturday) with no noisy work (defined as not involving any machinery/plant) on Sunday or Bank/Public Holidays. In addition, there shall be no external working in respect of plots 28/29 & 42-45 in the north-western corner only, an hour before, during and an hour after sunset and sunrise even if those times fall within the above time periods

Reason: To protect the amenity of local residents and on-site biodiversity in accordance with policies ENV DM5, QE SP1 and QE DM1 of the Arun Local Plan.

- 6 The development shall proceed in full accordance with the hedgerow mitigation method strategy (in the form of a letter from Derek Finnie Associates ref DF/THK/LR/MG03, 25/01/22 and accompanying Tree Protection Plan) as approved by AL/21/22/DOC. The development shall proceed in accordance with the approved hedgerow protection and enhancement measures.

Reason: Bats use hedgerows for foraging and commuting and therefore in accordance with the NPPF and policy ENV DM5 of the Arun Local Plan. This is required to be a pre-commencement condition because the hedgerow protection scheme must be in place prior to construction starting.

- 7 All activity at the site is to be carried out in strict accordance with the "Arboricultural Report" (incorporating Arboricultural Impact Assessment and Method Statement), ref. B/0300/21, January 2021 and the separately amended Appendix 6, 7, 13, 14 & 15 plans. The tree protective fencing and ground protection measures that have been implemented on the site and reviewed by our Tree Officer (reference the email to Jonathan Rodwell and Ellie Wilkins dated 06/05/22) must

continue to be in place throughout the construction process.

If there is deemed to be a need for any Utility Service Route connections to bisect retained tree Root Protection Areas/Zones, then prior to their installation a Method Statement prepared by an Arboricultural Expert must be submitted that stipulates how this can be achieved without adverse impact on tree roots. Written approval and confirmation of acceptance of this Methodology must be issued before any works are commenced out on site.

Reasons: To comply with BS5837 and policy ENV DM4 of the Arun Local Plan to ensure that retained trees are afforded due respect and appropriate levels of protection such that their ongoing health and vitality is not compromised, and they can continue to enhance the landscape and amenity of the area.

- 8 Unless otherwise agreed in writing, the physical measures identified in the Energy Statement dated 24/01/22 as agreed by AL/25/22/DOC shall be installed and then maintained in good working condition throughout the development.

Reason: In order to secure a reduction in the use of energy at the site in accordance with national planning policy and policy ECC SP2 of the Arun Local Plan.

- 9 Development shall not commence, other than works of site survey and investigation, until full details of the proposed surface water drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The design should follow the hierarchy of preference for different types of surface water drainage disposal systems as set out in Approved Document H of the Building Regulations, and the recommendations of the SuDS Manual produced by CIRIA. Winter groundwater monitoring to establish highest annual ground water levels and winter Percolation testing to BRE 365, or similar approved, will be required to support the design of any Infiltration drainage. No building shall be occupied until the complete surface water drainage system serving the property has been implemented in accordance with the agreed details and the details so agreed shall be maintained in good working order in perpetuity.

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan. This is required to be a pre-commencement condition because it is necessary to implement the surface water drainage system prior to commencing any building works. This will be subject to consultation with ADC's Drainage Engineers and Tree Officer.

- 10 The development shall not proceed until details have been submitted to and approved in writing by the Local Planning Authority for any proposals: to discharge flows to watercourses; or for the culverting, diversion, infilling or obstruction of any watercourse on or adjacent to the site. Any discharge to a watercourse must be at a rate no greater than the pre-development run-off values and in accordance with current policies. No construction is permitted, which will restrict current and future landowners from undertaking their riparian maintenance responsibilities in respect to any watercourse or culvert on or adjacent to the site.

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W DM1, W DM2 and W DM3 of the Arun Local Plan. And to ensure that the duties and responsibilities, as required under the Land Drainage Act 1991, and amended by the Flood and Water Management Act 2010, can be fulfilled without additional impediment following the development completion. It is considered necessary for this to be a pre-commencement condition to protect existing watercourses prior to the construction commencing.

- 11 Development shall not commence until full details of the maintenance and management of the surface water drainage system is set out in a site-specific maintenance manual and submitted to, and approved in writing, by the Local Planning Authority. The manual is to include details of

financial management and arrangements for the replacement of major components at the end of the manufacturer's recommended design life. Upon completed construction of the surface water drainage system, the owner or management company shall strictly adhere to and implement the recommendations contained within the manual.

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W DM1, W DM2 and W DM3 of the Arun Local Plan. It is considered necessary for this to be a pre-commencement condition to ensure that the future maintenance and funding arrangements for the surface water disposal scheme are agreed before construction commences.

- 12 The development shall proceed in full accordance with the Construction & Environmental Management Plan approved through application ref AL/23/22/DOC and as amended by the approval of AL/77/22/DOC. This plan shall be in force throughout the construction process.

Reason: In the interests of the safety/amenity of nearby residents & occupiers of any nearby noise sensitive premises, the safety & general amenities of the area, biodiversity (particularly bats) and in the interests of highway safety in accordance with policies D DM1, ENV DM5, QE SP1, QE DM1, QE DM2, QE DM3, W DM1 and T SP1 of the Arun Local Plan and the NPPF.

- 13 Unless otherwise agreed in writing, the development shall proceed in full accordance with the foul drainage scheme approved through application ref AL/27/22/DOC. The drainage scheme shall be implemented in accordance with the approved scheme and permanently retained in good working order in perpetuity.

Reason: To ensure that the proposed development has a satisfactory means of disposing of foul sewerage in accordance with policies W DM1 and W DM3 of the Arun Local Plan.

- 14 Prior to the commencement of development a detailed level survey of the site including existing and resulting ground levels and the slab levels of the building the subject of this approval, shall be submitted to and approved by the Local Planning Authority. The development shall proceed only in accordance with the details thus approved and there shall be no subsequent raising of levels without prior written approval of the Local Planning Authority.

Reason: In order to safeguard the amenities of the area and neighbouring residents in accordance with policy D DM1 of the Arun Local Plan. It is considered necessary for this to be a pre-commencement condition because levels need to be checked before any initial laying of house foundations takes place.

- 15 Prior to the commencement of any construction work (or such other date in development as may be agreed in writing with the Local Planning Authority), a verification report demonstrating completion of the works set out in the approved remediation strategy ("Remedial Strategy & Verification Plan - Land off Lidsey Road, Woodgate, Chichester, West Sussex, PO20 3SU", ref GE19228-RSVPv2AP210930, September 2021, as agreed through AL/30/22/DOC) and the effectiveness of that remediation shall be submitted to and approved in writing by the Local Planning Authority.

The report shall include results of sampling and monitoring carried out in accordance with the approved verification plan to demonstrate that the site remediation criteria have been met. The report shall also include a long-term monitoring and maintenance plan for longer-term monitoring of pollutant linkages, maintenance and arrangements for contingency action, as identified in the verification report, and for the reporting of this in writing to the Local Planning Authority.

Reason: To ensure that the development complies with approved details in the interests of protection of the environment and prevention of harm to human health in accordance with Arun Local Plan policies QE SP1 and QE DM4. This is required to be a pre-commencement condition

because these details have to be agreed and in place before any work commences.

- 16 Unless otherwise agreed in writing, the development shall proceed in full accordance with the recommendations of the Proposed Residential Development | Land at Wings Nursery, Woodgate | Noise Impact Assessment | Technical Report" (ref R9214-1 Rev 0, 24th March 2022) as agreed through AL/45/22/DOC. As per the report, glazing units in zone 1 shall achieve a minimum acoustic performance of 31 dB RW and ventilators in zone 1 shall achieve a minimum acoustic performance of 33 dB Dn, e, w. In addition, as per section 5.35 of the report, a 1.8 metre close boarded fence must be installed in the gardens of plots 5 & 6.

Reason: To protect the amenity of local residents in accordance with Policy QE DM1 of the Arun Local Plan.

- 17 No development above damp-proof course (DPC) level shall take place until there has been submitted to, and approved by, the Local Planning Authority, a landscaping scheme including full details of soft landscaping and details of existing trees and hedgerows to be retained. The approved details of the landscaping shall be carried out in the first planting and seeding season, following the occupation of the buildings or the completion of the development, whichever is the sooner, and any trees or plants which, within a period of five years from the completion of development, die, are removed or become seriously damaged or diseased, shall be replaced in the next planting season with others of similar size and species, unless the Local Planning Authority gives written consent to any variation.

The landscaping scheme should include new native tree planting on a ratio of 2 for every 1 that is felled unless there is clear evidence/justification as to why this is not possible. The landscaping scheme should also avoid any new trees closer to the drainage attenuation features or if this is unavoidable then the root potential areas of these trees shall be shown to allow assessment.

Reason: In the interests of amenity, the environment and biodiversity of the development in accordance with policies D DM1 and ENV DM5 of the Arun Local Plan.

- 18 No development above damp-proof course (DPC) level shall take place until details (including elevations and materials) of all new screen walls and fences within and around the site have been submitted to and approved by the Local Planning Authority and no dwellings shall be occupied until such screen walls and fences associated with them have been erected.

Reason: In the interests of amenity in accordance with policy D DM1 of the Arun Local Plan.

- 19 Unless otherwise agreed in writing, the development shall proceed in full accordance with the materials approved through AL/45/22/DOC and these details shall be permanently retained.

Reason: To enable the Local Planning Authority to control the development in detail in the interests of visual amenity and local character in accordance with policy D DM1 of the Arun Local Plan.

- 20 No development above damp-proof course (DPC) level shall take place unless and until details of the proposed location of the required fire hydrants have been submitted to and approved in writing by the Local Planning Authority in consultation with West Sussex County Council's Fire and Rescue Service.

Reason: In the interests of amenity and in accordance with policy INF SP1 and TSP1 of the Arun Local Plan and in accordance with The Fire & Rescue Service Act 2004.

- 21 If any residential properties are to be completed and occupied prior to the whole development being finished, then a scheme to protect those early occupants from noise and vibration associated with construction activities should be submitted to and approved in writing by the Local Planning Authority. The approved scheme shall thereafter be implemented in full and retained

throughout the rest of the construction process.

Reason: To protect the amenity of future residents in accordance with Policy QE DM1 of the Arun Local Plan.

- 22 Prior to the first use of the electricity substation, an acoustic report assessing the impact of its use on local residents shall be submitted to and approved in writing by the Local Planning Authority. The report shall address the issue of noise (including low frequency noise) and vibration from the station to ensure that there is no adverse effect to residential properties.

The scheme shall ensure that the low frequency noise emitted from the substation is controlled so that it does not exceed the 'Low Frequency Criterion Curve' for the 10 to 160 Hz third octave bands inside residential accommodation as described in the DEFRA funded University of Salford Manchester guidance document entitled 'Procedure for the Assessment of Low Frequency Noise Complaints' (NANR45 Rev.1 - December 2011), see http://sciencesearch.defra.gov.uk/Document.aspx?Document=10470_NANR45-procedure_rev1_23122011.pdf.

The electricity substation equipment shall thereafter be maintained in a condition so that it complies with the levels and mitigation measures specified in the approved acoustic report, whenever it is operating. No future new substation plant shall be used without the written consent of the Local Planning Authority.

Reason: To protect the amenity of future residents in accordance with Policy QE DM1 of the Arun Local Plan.

- 23 Prior to the occupation of any part of the development, a strategy for the provision of the highest available headline speed of broadband provision to future occupants of the site shall be submitted to and approved in writing by the Local Planning Authority. The strategy shall take into account the timetable for the delivery of 'superfast broadband' (defined as having a headline access speed of 24Mb or more) in the vicinity of the site (to the extent that such information is available). The strategy shall seek to ensure that upon occupation of a dwelling, the provision of the highest available headline speed of broadband service to that dwelling from a site-wide network is in place and provided as part of the initial highway works and in the construction of frontage thresholds to dwellings that abut the highway. Unless evidence is put forward and agreed in writing by the Local Planning Authority that technological advances for the provision of a broadband service for the majority of potential customers will no longer necessitate below ground infrastructure, the development of the site will continue in accordance with the approved strategy.

Reason: To safeguard the amenities of future residents in accordance with Arun Local Plan policy TEL SP1.

- 24 Prior to the first occupation of any dwelling forming part of the proposed development, the developer shall at their own expense install the required fire hydrants (or in a phased programme if a large development) in the approved locations to BS:750 standards or stored water supply and arrange for their connection to a water supply which is appropriate in terms of both pressure and volume for the purposes of firefighting.

The fire hydrant shall thereafter be maintained as part of the development by the water undertaker at the expense of the Fire and Rescue Service if adopted as part of the public mains supply (Fire Services Act 2004) or by the owner/occupier if the installation is retained as a private network.

Reason: In the interests of amenity and in accordance with policy INF SP1 and TSP1 of the Arun Local Plan and in accordance with The Fire & Rescue Service Act 2004.

- 25 Prior to the occupation of any part of the development, full details of all new external lighting (including type of light appliance, the height and position of fitting, predicted illumination levels and light spillage) shall be submitted to and approved in writing by the Local Planning Authority. This submission should also cover new streetlighting if required. The scheme should seek to conform with the recommendations of the Institution of Lighting Professionals (ILP) "Guidance Notes for the Reduction of Obtrusive Light" (GN01:2011) but also minimise potential impacts to any bats using the trees and hedgerows by avoiding unnecessary artificial light spill through the use of directional light sources and shielding. In particular, there should be no external lighting that illuminates the wildlife buffer areas to the western and southern site boundaries. The lighting approved shall be installed and maintained in accordance with the approved details.

Within 3 months of the completion of the development, the predicted illuminance levels shall be tested by a competent person to ensure that the illuminance levels agreed in the scheme are achieved. Where these levels have not been met, a report to demonstrate what measures have been taken to reduce the levels to those agreed within the application scheme shall be submitted to and approved in writing by the Local Planning Authority.

Reason: In the interests of the amenities of the area, the site biodiversity (particularly in respect of bats), the interests of minimising crime, road safety and to minimise unnecessary light spillage outside the development site in accordance with policies QE SP1, QE DM2, T SP1 & ENV DM5 of the Arun Local Plan.

- 26 No part of the development, hereby permitted, shall be occupied until the accesses as shown on the approved planning drawings have been constructed to a final specification to be agreed with the local Highway Authority through a formal S38 and/or S278 process.

Reason: To ensure fit-for-purpose accesses constructed to appropriate design and safety standards in accordance with policy T SP1 of the Arun Local Plan and the National Planning Policy Framework.

- 27 No part of the development shall be occupied until the internal access road layout has been constructed in accordance with the approved plans.

Reason: To ensure fit-for-purpose roads constructed to appropriate design and safety standards in accordance with policy T SP1 of the Arun Local Plan and the National Planning Policy Framework.

- 28 No dwelling, hereby approved, shall be occupied until provision for parking and turning of cars associated with that dwelling has been provided in accordance with the approved plans. Provision should thereafter be maintained solely for the purpose of the parking and turning of vehicles clear of the highway.

Reason: To ensure that adequate provision for the parking and turning of vehicles is provided for the development in accordance with policy T SP1 of the Arun Local Plan and the National Planning Policy Framework.

- 29 Prior to the occupation of the dwellings, a scheme for the provision of facilities to enable the charging of electric vehicles to serve the approved dwellings shall be submitted to the local planning authority for approval and thereafter implemented in accordance with the approved details and the charge points shall thereafter be permanently retained and maintained in good working condition.

Reason: New petrol, diesel and hybrid cars/vans will not be sold beyond 2030, and to mitigate against any potential adverse impact of the development on local air quality, in accordance with policy QE DM3 (c) of the Arun Local Plan, the Arun Parking Standards SPD and the National

Planning Policy Framework.

- 30 No part of the development shall be first occupied until covered and secure cycle parking spaces for the individual houses have been provided in accordance with plans and details submitted to and approved by the Local Planning Authority. No details are required for the proposed flats as the communal store has been approved through the application decision.

Reason: To provide alternative travel options to the use of the car in accordance with Local Plan policies T SP1 & T DM1 and the National Planning Policy Framework.

- 31 No development shall be occupied until any disused crossovers and/or accesses no longer required as part of the development, have been permanently removed and reinstated in accordance with plans to be submitted to and approved by the Local Planning Authority in consultation with West Sussex Highways.

Reason: To ensure that any access points not required to serve the development are permanently removed to avoid risk of inappropriate reopening in the future and also in the interests of road safety in accordance with policy T SP1 of the Arun Local Plan and the National Planning Policy Framework.

- 32 Upon the first occupation of the dwellings, the applicant shall implement the measures incorporated within the approved travel plan. The applicant shall thereafter monitor, report and subsequently revise the travel plan as specified within the approved document.

Reason: To encourage and promote sustainable transport in accordance with policy T SP1 of the Arun Local Plan and the National Planning Policy Framework.

- 33 None of the dwellings shall be occupied unless and until full details of the public open space (POS) management arrangements have been submitted to and approved in writing by the Local Planning Authority. The POS shall thereafter be implemented in accordance with the provision as agreed by application AL/20/21/PL (or any subsequent variation application) prior to occupation of the 36th dwelling and permanently retained thereafter. The approved management details shall then be permanently adhered to.

Reason: To ensure that the POS is provided and that a management regime is established in accordance with policy OSR DM1 of the Arun Local Plan.

- 34 None of the dwellings shall be occupied unless and until full details of the proposed play provision and the management arrangements for this provision have been submitted to and approved in writing by the Local Planning Authority. The public play provision shall be implemented in accordance with the approved details prior to occupation of the 36th dwelling and permanently retained thereafter. The approved management details shall then be permanently adhered to.

Reason: To ensure that play provision is in place for future residents and that a management regime is established in accordance with policy OSR DM1 of the Arun Local Plan.

- 35 Immediately following implementation of the approved surface water drainage system and prior to occupation of any part of the development, the developer/applicant shall provide the local planning authority with as-built drawings of the implemented scheme together with a completion report prepared by an independent engineer that confirms that the scheme was built in accordance with the approved drawing/s and is fit for purpose. The scheme shall thereafter be maintained in perpetuity.

Reason : To ensure that the proposed development is satisfactorily drained in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan.

- 36 If during development, any visible contaminated or odorous material, (for example, asbestos

containing material, stained soil, petrol/diesel/solvent odour, underground tanks or associated pipework) not previously identified, is found to be present at the site, no further development (unless otherwise expressly agreed in writing with the Local Planning Authority) shall be carried out until it has been fully investigated using suitably qualified independent consultant(s). The Local Planning Authority must be informed immediately of the nature and degree of the contamination present and a method statement detailing how the unsuspected contamination shall be dealt with must be prepared and submitted to the Local Planning Authority for approval in writing before being implemented. If no such contaminated material is identified during the development, a statement to this effect must be submitted in writing to the Local Planning Authority.

Reason: To ensure that the development complies with approved details in the interests of protection of the environment and prevention of harm to human health in accordance with Arun Local Plan policies QE SP1 and QE DM4.

- 37 Should any pumping station be required to be installed on the site then noise associated with it shall not exceed 45dB LAeq (15mins) with no tonal components evident at the boundary of the nearest noise sensitive property. In addition, when assessed by a competent acoustic engineer, the Vibration Dose Value (VDV) shall not exceed the applicable 'low probability of adverse comment' level for the test environment in question (i.e. residential buildings) contained within BS6472-1:2008 (Guide to evaluation of human exposure to vibration in buildings - Part 1: Vibration sources other than blasting) inside the nearest property. A test or prediction of the noise levels and a test or estimation of the expected vibration environment to demonstrate compliance with the levels shall be undertaken within 3 months of the pumping station first being operational.

Reason: To protect the amenity of local residents in accordance with Policy QE DM1 of the Arun Local Plan.

- 38 All bathroom and toilet windows in the elevations of any of the buildings hereby approved shall be glazed with obscured glass and permanently retained so thereafter.

Reason: To protect the amenities and privacy of existing and future occupiers in accordance with policies D DM1 and QE SP1 of the Arun Local Plan.

- 39 No windows (other than those shown on the plans hereby approved) shall be constructed in the flank elevations of any of the dwellings hereby approved without the prior permission of the Local Planning Authority on an application in that behalf.

Reason: To protect the amenities and privacy of existing and future occupiers in accordance with policies D DM1 and QE SP1 of the Arun Local Plan.

- 40 Notwithstanding the provisions of Parts 1 & 20 of Schedule 2 of the Town and Country Planning (General Permitted Development) (England) Order, 2015 (as amended) (or any Order revoking or re-enacting this Order) no rear dormer/roof extensions/alterations to the buildings associated with plots 5-21 inclusive shall be constructed unless permission is granted by the Local Planning Authority on an application in that behalf.

Reason: In the interests of protecting the amenities of the existing dwellings adjacent to the southern boundary in accordance with policies D DM1 and QE SP1 of the Arun Local Plan.

- 41 Notwithstanding the provisions of Schedule 2, Part 2, Class A of The Town and Country Planning (General Permitted Development) (England) Order 2015 (or any Order revoking or re-enacting this Order) no fences, walls, gates or other means of enclosure (other than those specified on the approved plans) shall be erected on land within the curtilage forward of the primary or side elevations of any of the approved houses, unless permission is granted by the Local Planning Authority on an application in that behalf.

Reason: In the interests of visual amenity in accordance with policy D DM1 of the Arun Local Plan.

This application is subject to the Community Infrastructure Levy (CIL) as levied under Arun district Council's CIL Charging Schedule as adopted on 15th January 2020.

Shortly you will receive a Liability Notice which includes the calculated charge and person(s) liable to pay. If you have not submitted all the necessary CIL forms such as Assumption for Liability (Form 2) or any appropriate exemption or relief forms available on the Council's website <https://www.arun.gov.uk/cil> you must do so prior to commencement of your development. Failure to do so would invalidate any claim for exemption or relief. Furthermore, you must remember to submit your Commencement Notice no later than the day before the day on which the chargeable development is to commence. Failure to do so could result in a surcharge of up to £2,500.

INFORMATIVE: Statement pursuant to Article 35 of the Town and Country Planning (Development Management Procedure)(England) Order 2015. The Local Planning Authority has acted positively and proactively in determining this application by identifying matters of concern within the application (as originally submitted) and negotiating, with the Applicant, acceptable amendments to the proposal to address those concerns. As a result, the Local Planning Authority has been able to grant planning permission for an acceptable proposal, in accordance with the presumption in favour of sustainable development, as set out within the National Planning Policy Framework.

INFORMATIVE: This decision has been granted in conjunction with a Section 106 legal agreement relating to 22 affordable houses, a strategic highways contribution and various local highway/sustainable transport improvements.

INFORMATIVE: Infiltration rates for soakage structures are to be based on percolation tests undertaken in the winter period and at the location and depth of the proposed structures. The percolation tests must be carried out in accordance with BRE365, CIRIA R156 or a similar approved method and cater for the 1 in 10 year storm event plus 40% on stored volumes/rainfall intensity (allowance for climate change) between the invert of the entry pipe to the soakaway, and the base of the structure. It must also have provision to ensure that there is capacity in the system to contain below ground level the 1 in 100 year storm event plus 40% on stored volumes/rainfall intensity. Adequate freeboard must be provided between the base of the soakaway structure and the highest recorded annual groundwater level identified in that location. Any SuDS or soakaway design must include adequate groundwater monitoring data to determine the highest winter groundwater table in support of the design. The applicant is advised to discuss the extent of groundwater monitoring with the Council's Engineers. Supplementary guidance notes regarding surface water drainage are located here: <https://www.arun.gov.uk/drainage-planning-consultations>. A surface water drainage checklist is available on Arun District Council's website, this should be submitted with a Discharge of Conditions Application.

INFORMATIVE: Under Section 23 of the Land Drainage Act 1991 Land Drainage Consent must be sought from the Lead Local Flood Authority (West Sussex County Council), or its agent (Arun District Council land.drainage@arun.gov.uk), prior to starting any works (temporary or permanent) that affect the flow of water in an ordinary watercourse. Such works may include culverting, channel diversion, discharge of flows, connections, headwalls and the installation of trash screens.

The development layout must take account of any existing watercourses (open or culverted) to ensure that future access for maintenance is not restricted. No development is permitted within 3m of the bank of an ordinary watercourse, or 3m of a culverted ordinary watercourse.

INFORMATIVE: If during construction works, it becomes apparent that implementation cannot be carried in accordance with previously agreed details any resubmission of the drainage design must be accompanied by

an updated copy of the management manual.

INFORMATIVE: A formal application for connection to the public sewerage system is required in order to service this development, please contact Southern Water, Sparrowgrove House, Sparrowgrove, Otterbourne, Hampshire SO21 2SW (Tel: 0330 303 0119) or www.southernwater.co.uk. Please read the New Connections Services Charging Arrangements documents which are available to read on the SW website: <https://beta.southernwater.co.uk/infrastructurecharges>.

INFORMATIVE: The applicant should note that under Part 1 of the Wildlife and Countryside Act 1981, with only a few exceptions, it is an offence for any person to intentionally take, damage or destroy the nest of any wild birds while the nest is in use or being built. Birds nest between March and September and therefore removal of dense bushes, ivy or trees or parts of trees etc. during this period could lead to an offence under the act.

INFORMATIVE: This notice does not give authority to destroy or damage a bat roost or disturb a bat. Bat species are protected under Section 39 of the 1994 Conservation (Natural Habitats etc) Regulations (as amended), the 1981 Wildlife and Countryside Act (as amended) and the 2000 Countryside and Rights of Way Act. It is illegal to damage or destroy any bat roost, whether occupied or not, or disturb or harm a bat. If you are aware that bats roost in a tree(s) for which work is planned, you should take further advice from Natural England (via the Bat Conservation Trust on 0345 1300228) or an ecological consultant before you start. If bats are discovered during the work, you must stop immediately and contact Natural England before continuing. A Natural England Bat Licence will be required to demolish Wings House and the linked garage.

INFORMATIVE: The granting of this planning permission does not in any way indemnify against statutory nuisance action

being taken should substantiated complaints within the remit of the Environmental Protection Act 1990. For further information please contact the Environmental Health Department on (01903) 737555.

INFORMATIVE: The applicant's attention is drawn to the requirements of the Environmental Protection Act 1990 and the Clean Air Act 1993 with regard to burning on site. A statutory nuisance may be caused by smoke and/or ash from fires or noise from the cutting and/or chipping trees. In addition, air quality could be adversely affected on large projects. The granting of this planning permission does not permit a statutory nuisance to be caused. The Environment Agency should be contacted regarding Exemption Permits to burn on site.

INFORMATIVE: In the interests of crime prevention and deterrence, the development should incorporate security measures in accordance with the consultation advice of Sussex Police (dated 18/02/21) as available on the Councils website.

INFORMATIVE: If deemed necessary, the applicant should contact West Sussex County Council Legal Services to obtain necessary information to enter into the Section 59 Agreement under the Highways Act 1980. This Agreement is would be required in the event that extraordinary traffic required to build the development is generated during the construction phase/s in order to provide a means of making good the public highway following the cessation of construction traffic and building work on the site. Full details of the process can be obtained from the Local Highways Manager WSCC.

INFORMATIVE: Applications for S38 and/or S278 Agreements should be made to WSCC as Highway Authority. Full details are available on the WSCC website. Roads not forming part of the adopted highway network and/or not intended to be offered for adoption, will not be inspected by the Highway Authority during or after any construction phases. Such roads should, however, be assessed and formally signed-off/approved by a suitable Chartered Civil Engineer to the satisfaction of the LPA.



Neil Crowther
Group Head of Planning

Case Officer: Mr S Davis

Decision Issued: **21st July 2022**

Arun District Council
The Arun Civic Centre
Maltravers Road
Littlehampton
West Sussex BN17 5LF

IT IS IMPORTANT THAT YOU READ THE NOTES ATTACHED TO THIS DOCUMENT

APPEALS TO THE SECRETARY OF STATE

If you are aggrieved by the decision of your local planning authority to refuse permission for the proposed development or to grant it subject to conditions, then you can appeal to the Secretary of State under section 78 of the Town and Country Planning Act 1990.

If this is a decision on a planning application relating to the same or substantially the same land and development as is already the subject of an enforcement notice, and you want to appeal against this planning application decision, then you must do so within 28 days of the date of this notice.

If an enforcement notice is served relating to the same or substantially the same land and development as in your application and you want to appeal against this planning application decision, then you must do so within 28 days of the date of service of the enforcement notice, or within 6 months of the date of this notice, whichever period expires earlier.

Otherwise, if you want to appeal against this decision then you must do so within 6 months of the date of this notice.

Appeals must be using a form which you can get from the Secretary of State at Temple Quay House, 2 The Square, Temple Quay, Bristol BS1 6PN (Tel: 0303 444 5000) or online at <http://acp.planninginspectorate.gov.uk>

The Secretary of State can allow a longer period for giving notice of an appeal but will not normally be prepared to use this power unless there are special circumstances which excuse the delay in giving notice of appeal.

The Secretary of State need not consider an appeal if it seems to the Secretary of State that the local planning authority could not have granted planning permission for the proposed development or could not have granted it without the conditions they imposed, having regard to the statutory requirements, to the provisions of any development order and to any directions given under a development order.

If you intend to submit an appeal that you would like examined by inquiry then you must send notice to the Local Planning Authority and Planning Inspectorate(inquiryappeals@planninginspectorate.gov.uk) at least 10 days before submitting the appeal. Further details can be found at www.GOV.uk

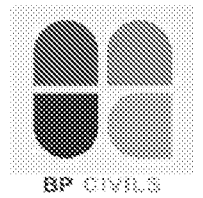
PURCHASE NOTICES

If either the local planning authority or the Secretary of State refused permission to develop land or grants it subject to conditions, the owner may claim that he can neither put the land to a reasonably beneficial use in its existing state nor render the land capable of a reasonably beneficial use by the carrying out of any development which has been or would be permitted.

In these circumstances, the owner may serve a purchase notice on the Council (that is, where the land is situated in a National Park, the National Park authority for the Park, or in any other case the district council in whose area the land is situated). This notice will require the Council to purchase the owner's interest in the land in accordance with the provisions of Chapter 1 of Part VI of the Town & Country Planning Act 1990.

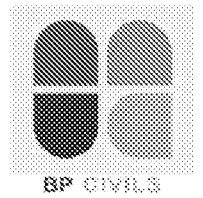
Please note that this decision notice only relates to matters under the Planning Acts and does not give consent under any other legislation that may apply to the development. You will need to carry out your own checks to determine whether any other consents or permissions are required. For example, the Building Regulations are likely to apply to most developments, and a Highways Licence may be required from West Sussex County Council for any development within the public highway (including the placing of skips on

highway land).



Appendix B

Design Drawing



Appendix C Happy Drains Ltd As Built Survey



2024-01-17

U1044487/002

Commercial (MSCC5)

Thakeham Homes Lidsey Road, Chichester , West Sussex,
PO20 3SU, United Kingdom

Supplier

Orgination **Happy Drains**

Engineer **Joe Lees**

Surveyor certification number

Client

Name **Joyce Groundwork**

Contact Phone Number **+4401342714333**

Address **Thakeham Homes Lidsey Road, Chichester , West Sussex, PO20 3SU, United Kingdom**

Job Reference

Click below for the interactive

FULL REPORT & PLAN





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Section scores

Grade 1 & 2

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

Grade 3

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

Grade 4 & 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.

Lateral 1

SERVICE

1

STRUCTURAL

1

Lateral 2

SERVICE

1

STRUCTURAL

1

Lateral 3

SERVICE

1

STRUCTURAL

1

Lateral 6

SERVICE

1

STRUCTURAL

1

Lateral 8

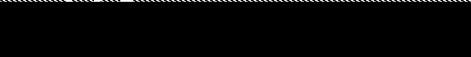
SERVICE

1

STRUCTURAL

1





FULL REPORT & PLAN

Lateral 9 SERVICE 1 STRUCTURAL 1

Lateral 11 SERVICE 1 STRUCTURAL 1

Lateral 12 SERVICE 1 STRUCTURAL 1

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Survey measurements

Number of sections

22

Total length of sewer network

⌘ 378.54m

Total length of inspections

⌘ 281.57m

Total abandoned inspections

X 0

Number of section inspection photos

📷 51

Number of section inspection videos

📺 14



Lateral 1

At a glance

Length
37.75m

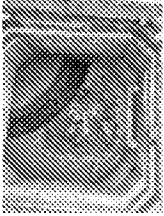
Diameter
225mm

Use
Surface Water

Material
Polyvinyl Chloride

Shape
Circular

Pipe type
Lateral



Depth

1.33m



WL @0.00m, 5%

JN @8.11m, 3 o/c

JN @29.77m, 3 o/c

GP @37.75m

S9

S10

SERVICE

1

STRUCTURAL

1



Lateral 1 Observations



Lateral 2

At a glance

Length
19.67m

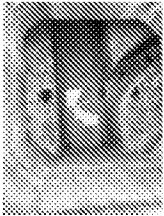
Diameter
375mm

Use
Surface Water

Material
Polyvinyl Chloride

Shape
Circular

Pipe type
Lateral



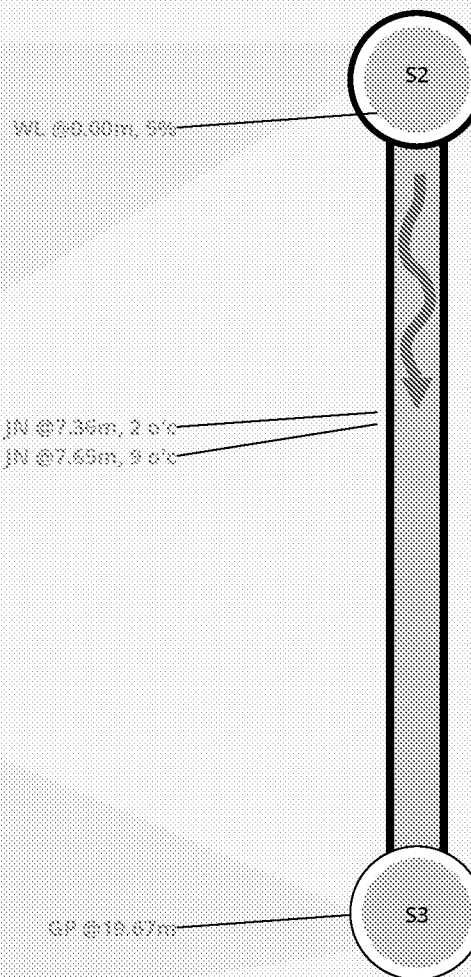
Depth

1.2m



Depth

1.2m



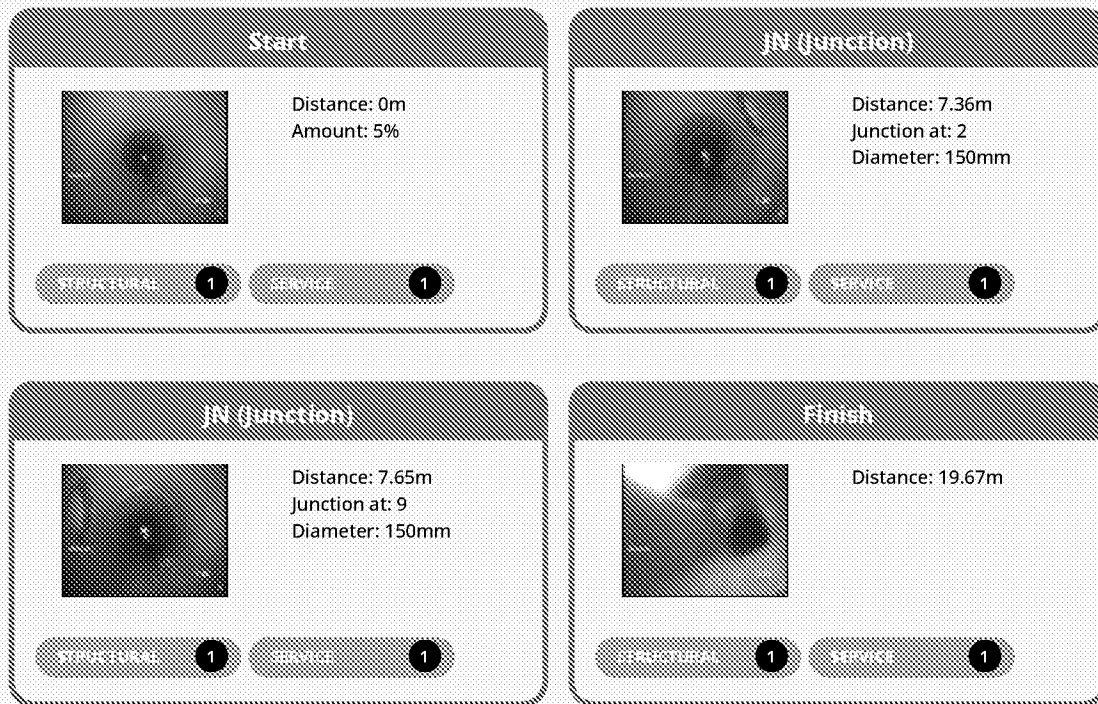
Service

1

Structural

1

Lateral 2 Observations



Lateral 3

At a glance

Length
29.04m

Diameter
375mm

Use
Surface Water

Material
Other

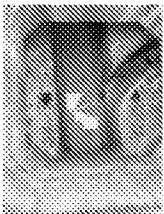
Shape
Circular

Pipe type
Lateral



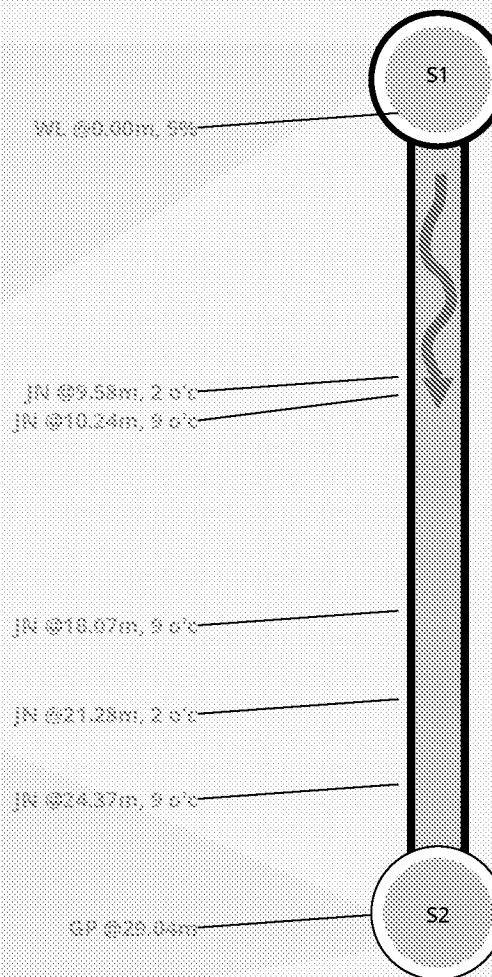
Depth

1.18m



Depth

1.2m



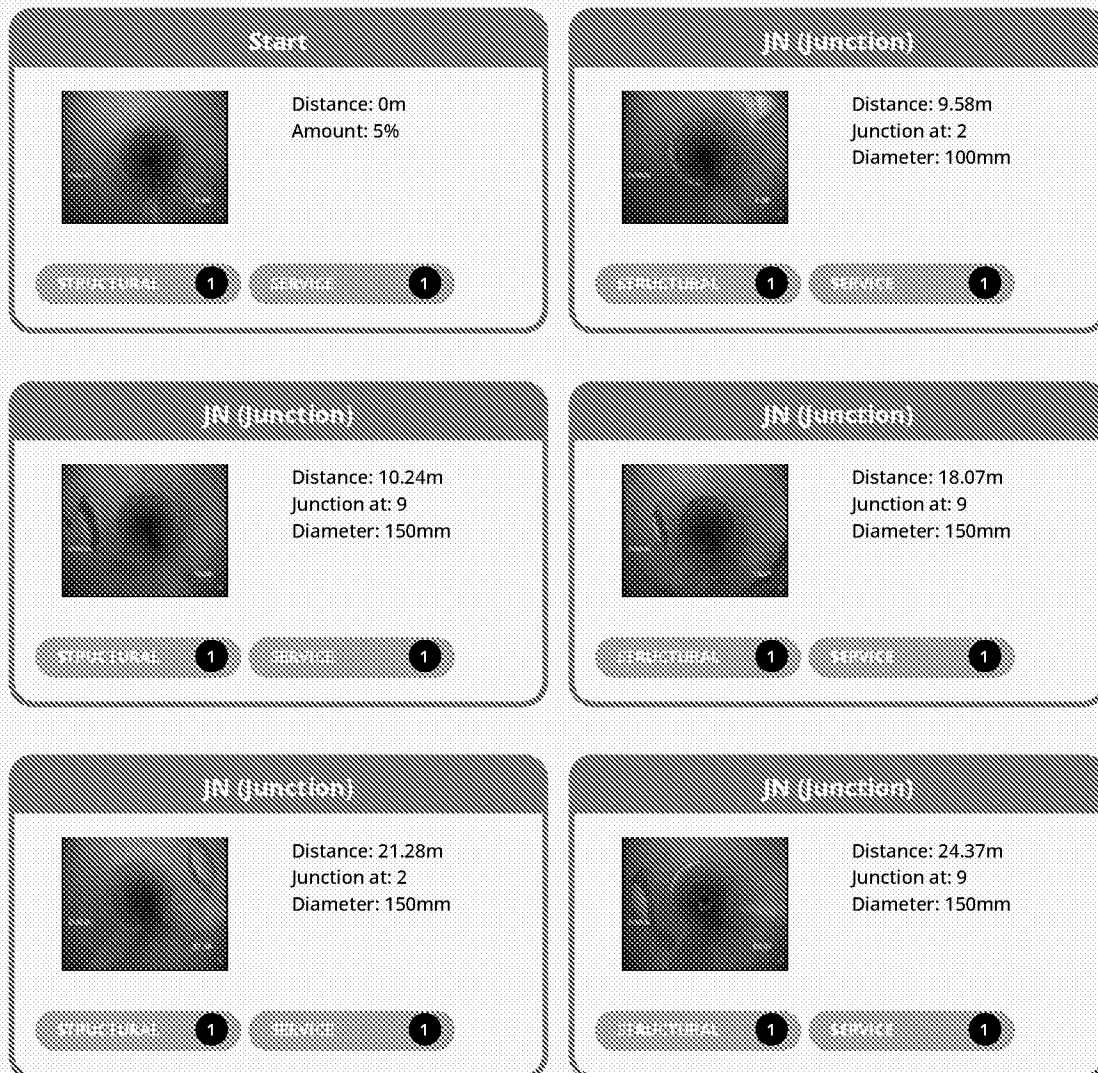
Service

1

Structural

1

Lateral 3 Observations



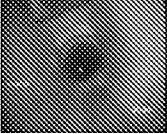


FULL REPORT & PLAN

Lateral 3

Observations (2)

Finish



Distance: 29.04m

STRUCTURAL1

SERVICE1

Lateral 6

At a glance

Length
27.04m

Diameter
375mm

Use
Surface Water

Material
Other

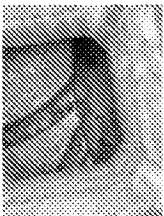
Shape
Circular

Pipe type
Lateral



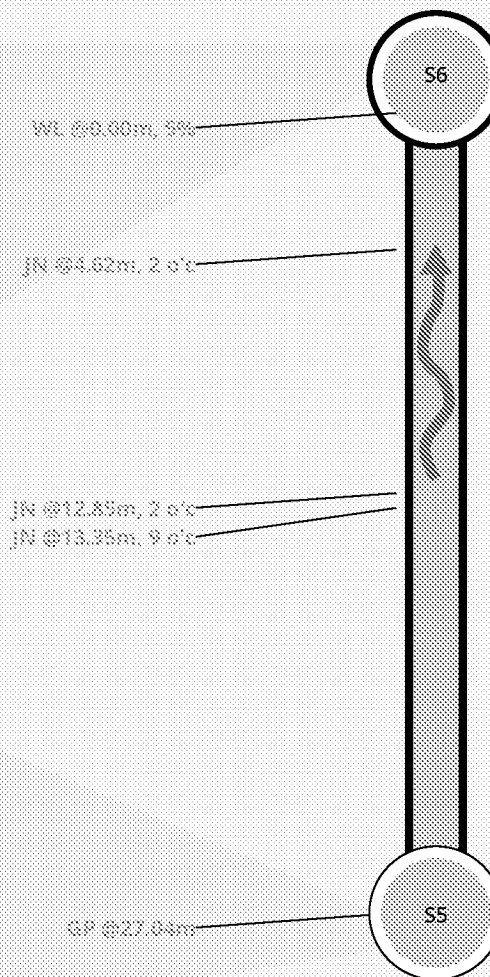
Depth

1.3m



Depth

1.25m



Service

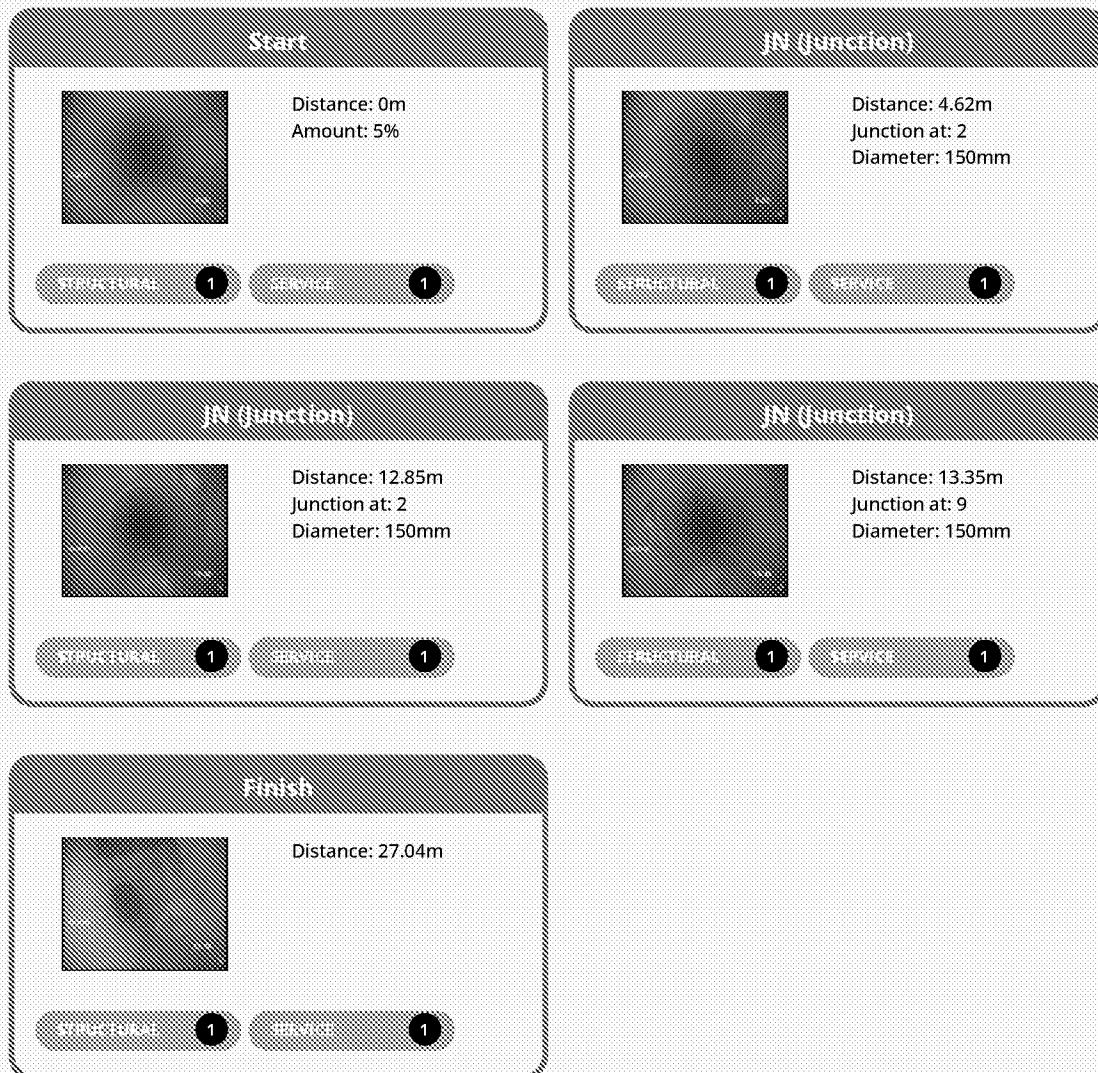
1

Structural

1



Lateral 6 Observations



Lateral 8

At a glance

Length
26.98m

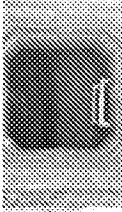
Diameter
225mm

Use
Surface Water

Material
Other

Shape
Circular

Pipe type
Lateral



Depth

1.8m



WL @0.00m, 5%

JN @7.76m, 9 o/c

JN @8.09m, 2 o/c

JN @23.97m, 9 o/c

GP @26.98m

S13

S10

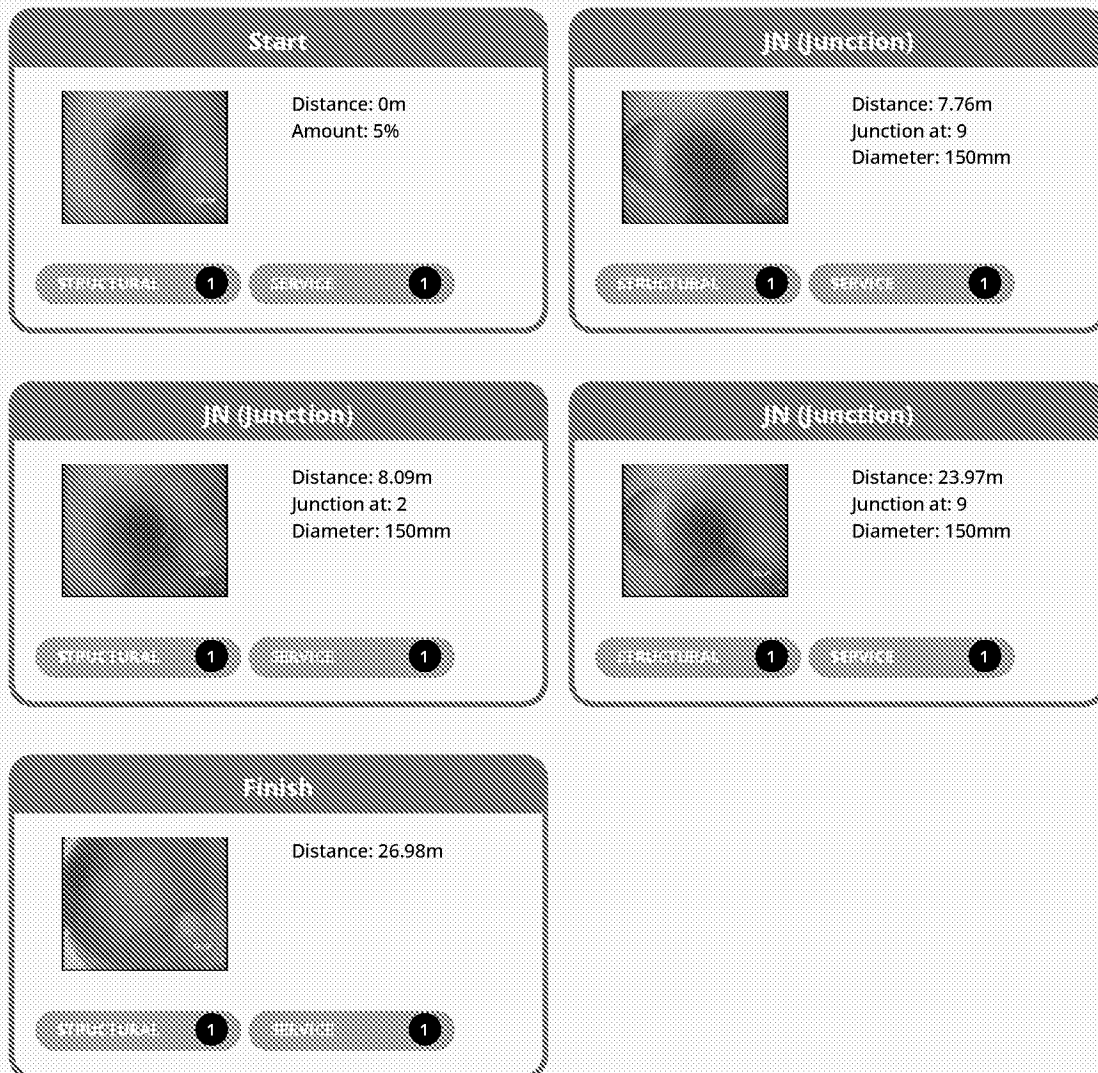
Service

1

Structural

1

Lateral 8 Observations



Lateral 9

At a glance

Length
15.78m

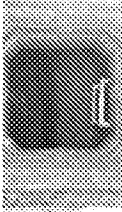
Diameter
375mm

Use
Surface Water

Material
Concrete

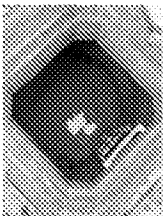
Shape
Circular

Pipe type
Lateral



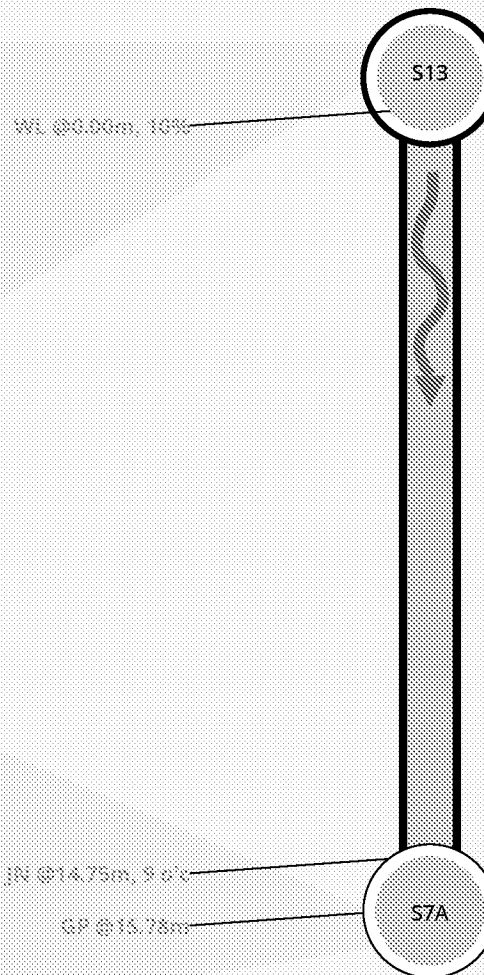
Depth

1.8m



Depth

2.2m



Service

1

Structural

1

Lateral 9 Observations



Lateral 11

At a glance

Length
40.69m

Diameter
375mm

Use
Surface Water

Material
Other

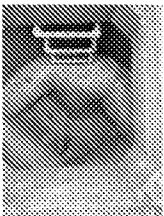
Shape
Circular

Pipe type
Lateral



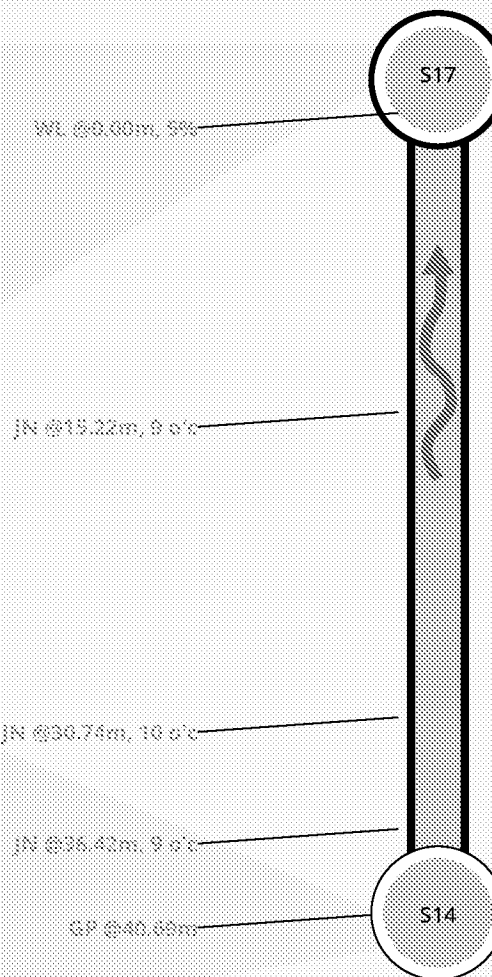
Depth

1.8m



Depth

1.8m



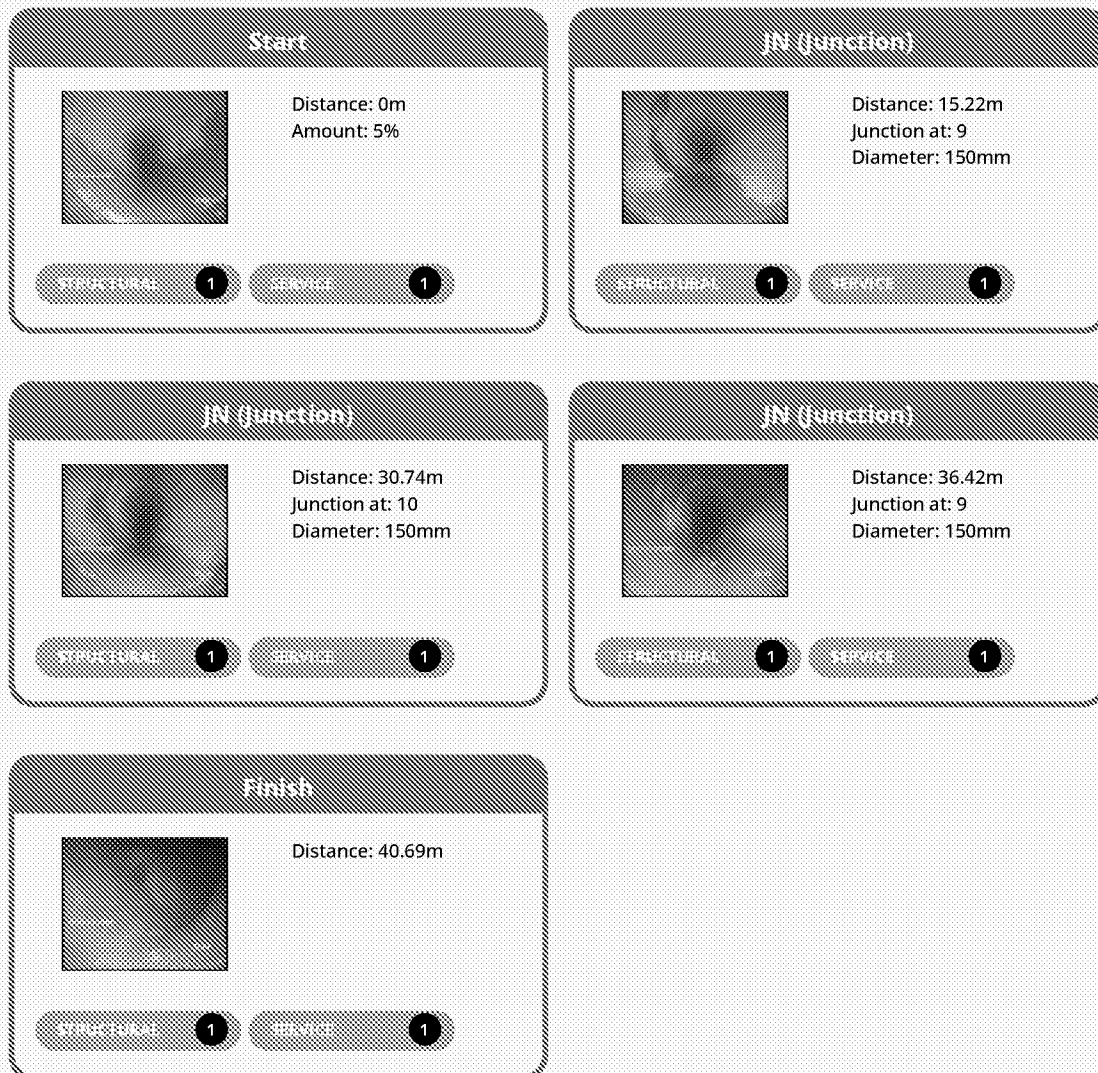
Service

1

Structural

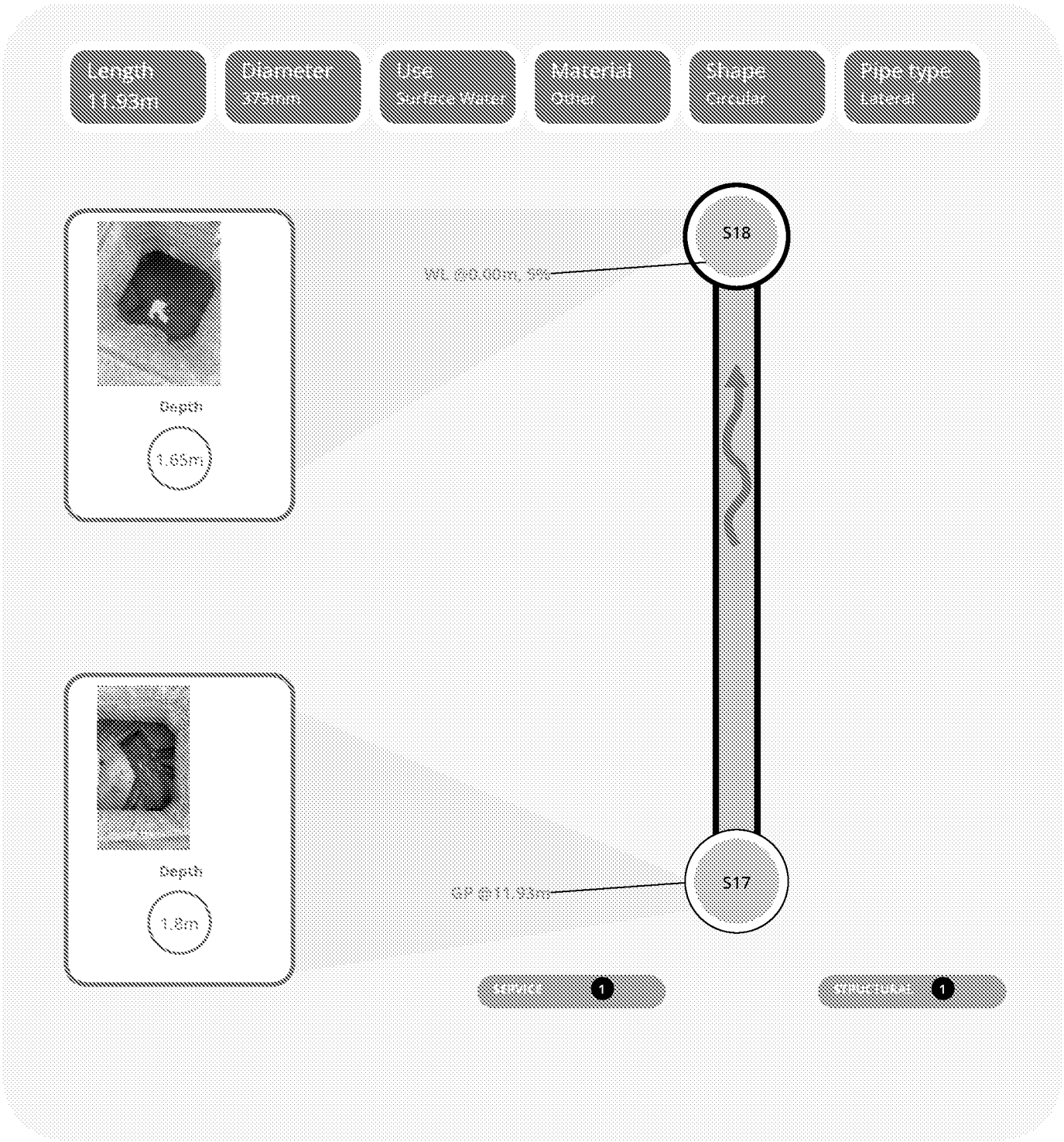
1

Lateral 11 Observations



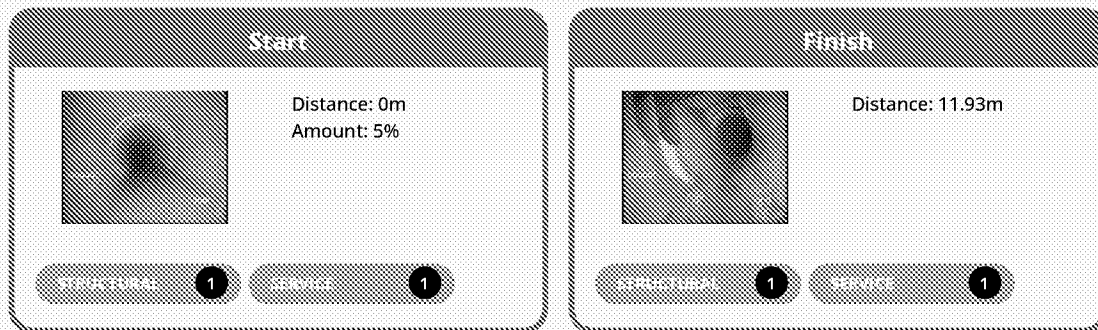
Lateral 12

At a glance





Lateral 12 Observations



Lateral 15

At a glance

Length
22.81m

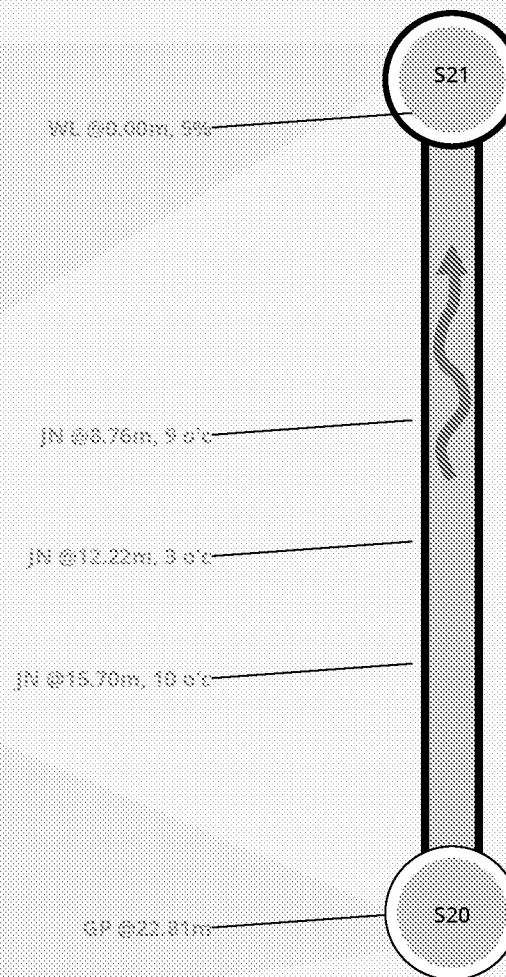
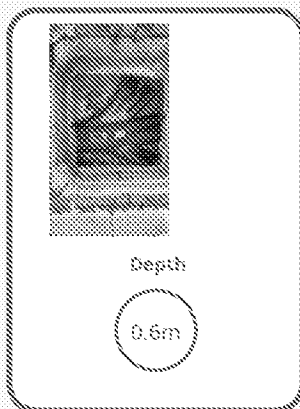
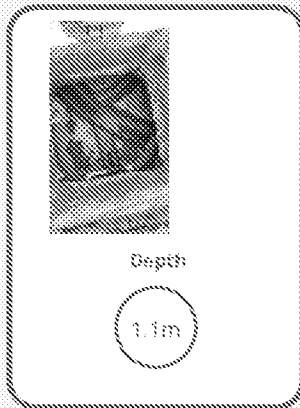
Diameter
225mm

Use
Surface Water

Material
Vitrified Clay

Shape
Circular

Pipe type
Lateral



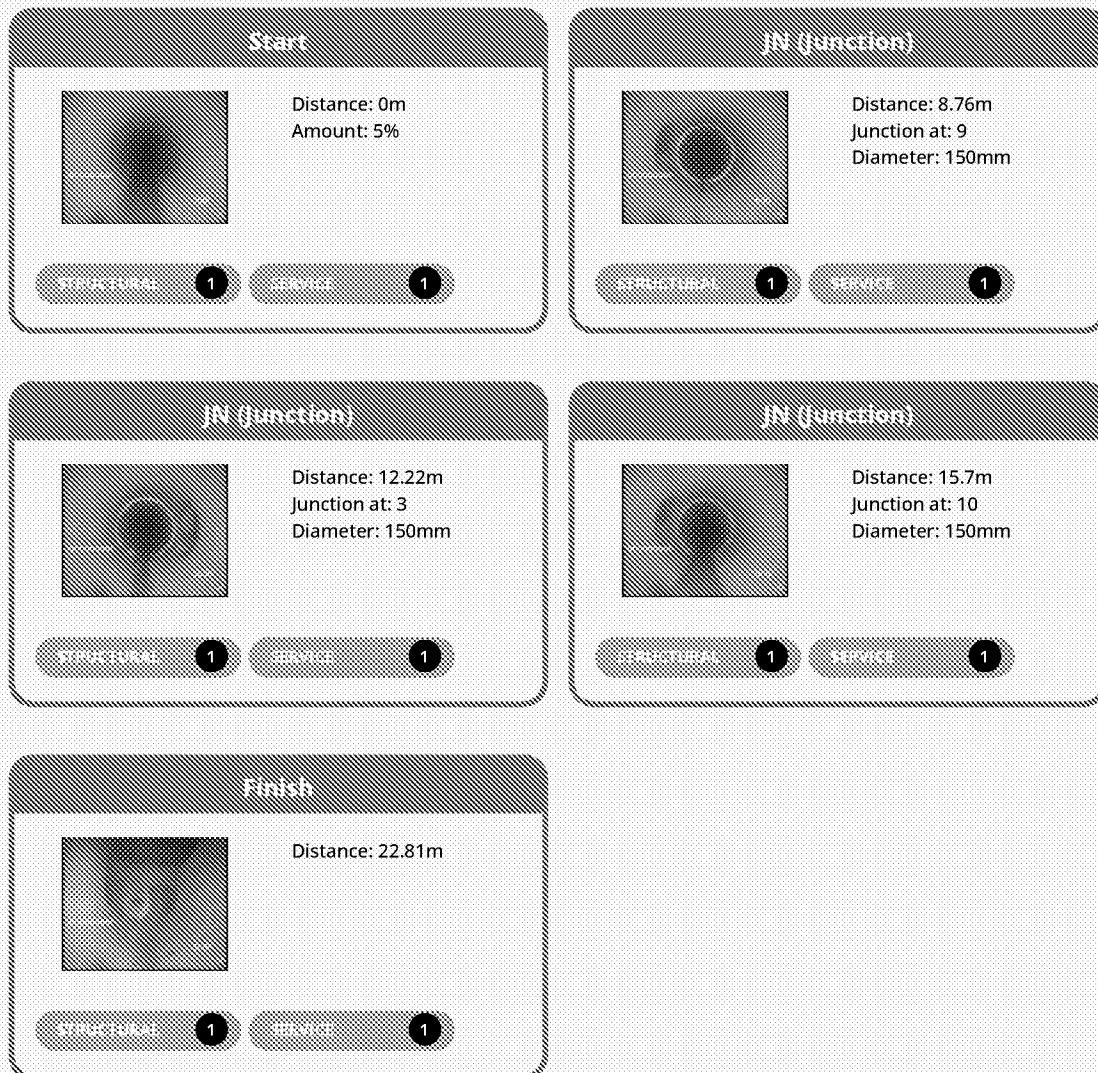
Service

1

Structural

1

Lateral 15 Observations



Lateral 16

At a glance

Length
12.21m

Diameter
225mm

Use
Surface Water

Material
Other

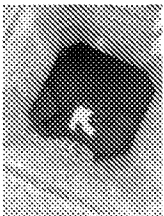
Shape
Circular

Pipe type
Lateral



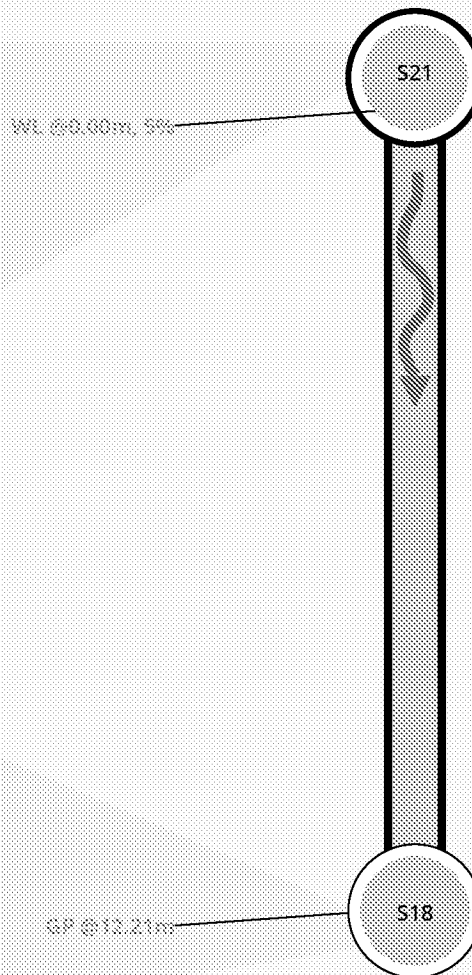
Depth

1.1m



Depth

1.65m



Service

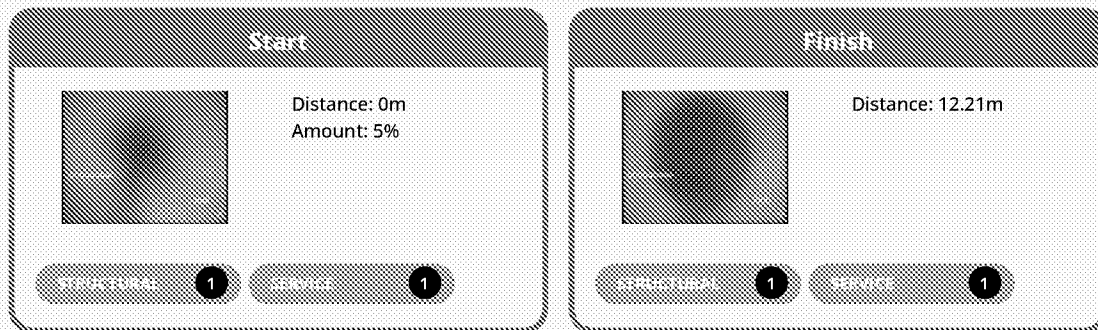
1

Structural

1



Lateral 16 Observations



Lateral 19

At a glance

Length
16.64m

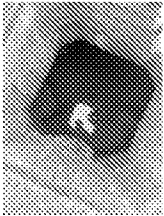
Diameter
450mm

Use
Surface Water

Material
Concrete

Shape
Circular

Pipe type
Lateral



Depth

1.65m



WL @0.00m, 5%

S18

GP @16.00m

S22

Service

1

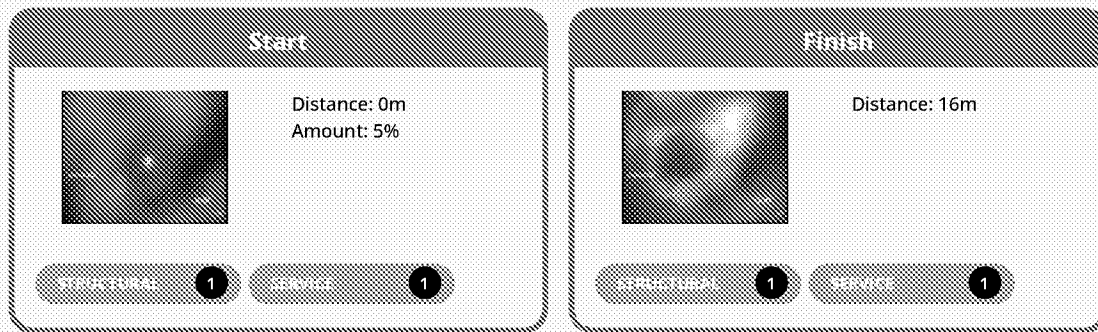
Structural

1



Lateral 19

Observations



Lateral 20

At a glance

Length
4.3m

Diameter
450mm

Use
Surface Water

Material
Concrete

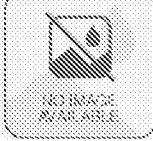
Shape
Circular

Pipe type
Lateral



WL @0.00m, 5%

S22



GP @4.30m

Headwall

SERVICE

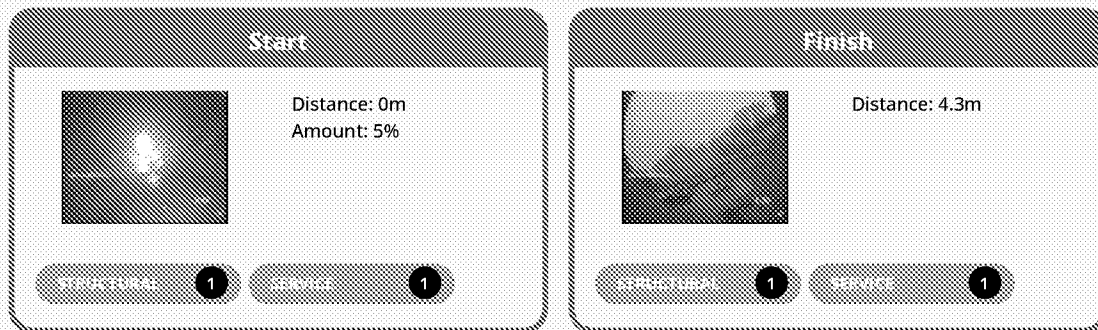
1

STRUCTURAL

1



Lateral 20 Observations



Lateral 21

At a glance

Length
11.3m

Diameter
375mm

Use
Surface Water

Material
Concrete

Shape
Circular

Pipe type
Lateral



WL @0.00m, 5%

JN @2.72m, 12 o'clock



Depth

2.2m

GP @11.30m

S22

S7

Service

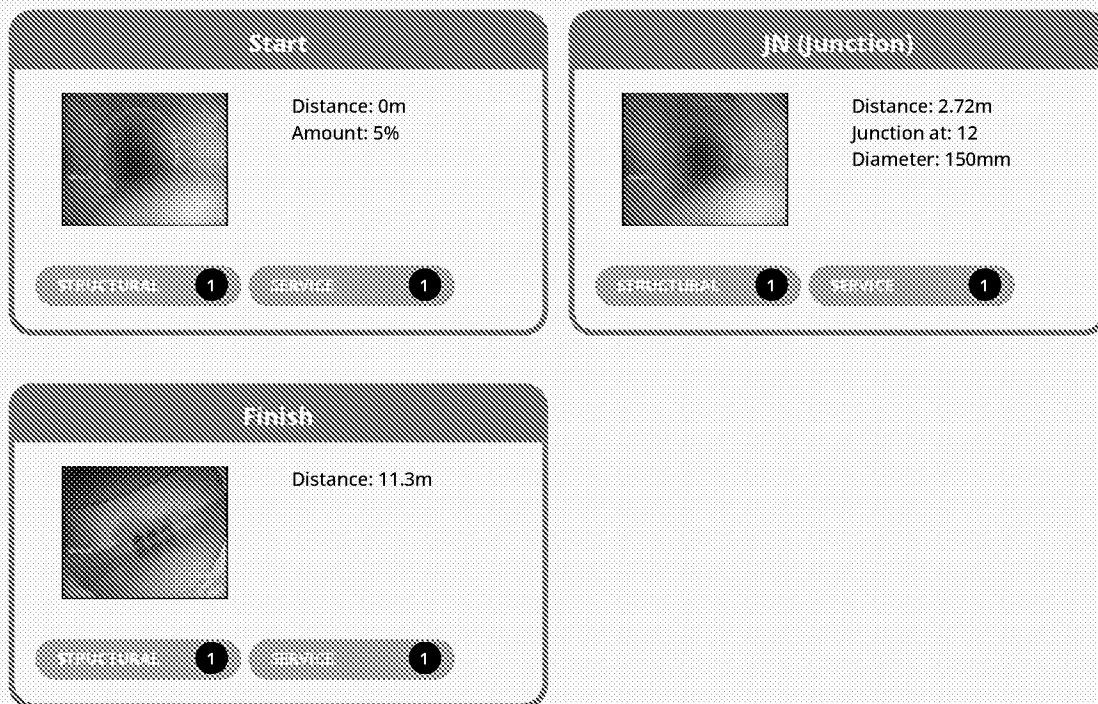
1

Structural

1



Lateral 21 Observations



Lateral 22

At a glance

Length
5.43m

Diameter
450mm

Use
Surface Water

Material
Vitrified Clay

Shape
Circular

Pipe type
Lateral



WL @0.00m, 5%

S22



GP @5.43m

S23

SERVICE

1

STRUCTURAL

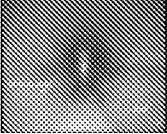
1



FULL REPORT & PLAN

Lateral 22
Observations

Start



Distance: 0m
Amount: 5%

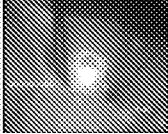
STRUCTURAL

1

SERVICE

1

Finish



Distance: 5.43m

STRUCTURAL

1

SERVICE

1

Node summary

59



Depth	Remarks	Code	Material	Shape
1.33	Debris is channel	MH		
Wall condition	Lateral connections	Surface type	Cover frame condition	
Breadth	Width	Diameter	Benching condition	
Lat	Lon			
-0.6694072053742262	50.82839611960742			

510



Depth	Remarks	Code	Material
	Chamber filled with debris	MH	
Shape	Wall condition	Lateral connections	Surface type
Cover frame condition	Breadth	Width	Diameter
Benching condition	Lat	Lon	
	-0.6694017995195222	50.82834630528366	

Node summary 2

53



Depth	Remarks	Code	Material	Shape	Wall condition
1.2		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6692926341899463		50.82832774489753			

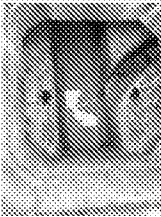
51



Depth	Remarks	Code	Material	Shape	Wall condition
1.13		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6692933172715376		50.8283956248927			

Node summary 3

52



Depth	Remarks	Code	Material	Shape	Wall condition
1.2		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6692908294634581		50.82835123179899			

54



Depth	Remarks	Code	Material	Shape	Wall condition
1.21		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6693026564316429		50.828312743857985			

Node summary 4

55



Depth	Remarks	Code	Material	Shape	Wall condition
1.25		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.669318302639732		50.8283087554115			

56



Depth	Remarks	Code	Material	Shape	Wall condition
1.3	Debris	MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6693812941841526		50.82830891436267			

Node summary 5

515



Depth	Remarks	Code	Material	Shape	Wall condition
	No access	MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.669492919113952		50.82837587901161			

514



Depth	Remarks	Code	Material	Shape	Wall condition
1.8		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6695537158545939		50.82837404362482			

Node summary 6

517



Depth	Remarks	Code	Material	Shape	Wall condition
1.3		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6695541628928403		50.828316581794084			

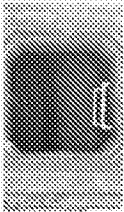
518



Depth	Remarks	Code	Material	Shape	Wall condition
1.65		CP			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6695418694326705		50.828297663146465			

Node summary 7

513



Depth	Remarks		Code
1.3	Manhole chamber has not been benched.		MH
Material	Shape	Wall condition	Lateral connections
Surface type	Cover frame condition	Breadth	Width
Diameter	Benching condition	Lat	
		-0.6694040264386114	
Lon			
50.828306838681044			

57A



Depth	Remarks	Code	Material	Shape	Wall condition
2.2		CP			
Lateral connections	Surface type	Cover frame condition			
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6694468358286843		50.828299423370105			

Node summary 8

57



Depth	Remarks	Code	Material
2.2	High water level in catchpit	CP	
Shape	Wall condition	Lateral connections	Surface type
Cover frame condition	Breadth	Width	Diameter
Benching condition	Lat	Lon	
	-0.669462744274405	50.828296816042474	

521



Depth	Remarks	Code	Material	Shape	Wall condition
1.1		MH			
Lateral connections	Surface type	Cover frame condition			
Breadth	Width	Diameter	Benching condition		
Lat	Lon				
-0.6695566215776161	50.828281215202496				

Node summary 9

515a



Depth	Remarks	Code	Material	Shape	Wall condition
0.8		CP			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6695083418156877		50.828369525741905			

JN1



Depth	Remarks	Code	Material	Shape	Wall condition
		BR			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6695101299584216		50.82837432599451			

Node summary 10

517A



Depth	Remarks	Code	Material	Shape	Wall condition
	No access	CP			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6695462280177633		50.82832455869036			

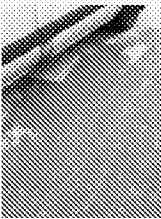
524



Depth	Remarks	Code	Material	Shape	Wall condition
1.3		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6694904604292162		50.828239707074964			

Node summary 11

525



Depth	Remarks	Code	Material	Shape	Wall condition
		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6694857665634601		50.82823335378674			

520



Depth	Remarks	Code	Material	Shape	Wall condition
0.6		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6695602675605716		50.82825026058892			

Node summary 12

523



Depth	Remarks	Code	Material	Shape	Wall condition
		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6694891350221966		50.828281603457796			

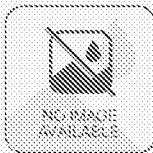
522



Depth	Remarks	Code	Material	Shape	Wall condition
		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat		Lon			
-0.6694896834594677		50.828293585182504			

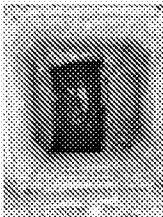
Node summary 13

Headwall



Depth	Remarks	Code	Material	Shape	Wall condition
	Headwall	BR			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat	Lon				
-0.6694889379690824	50.82830091879962				

S101



Depth	Remarks	Code	Material	Shape	Wall condition
		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat	Lon				

Node summary 14

5102



Depth	Remarks	Code	Material	Shape	Wall condition
		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat	Lon				

5102B



Depth	Remarks	Code	Material	Shape	Wall condition
		MH			
Lateral connections		Surface type		Cover frame condition	
Breadth	Width	Diameter	Benching condition		
Lat	Lon				



Lateral 1 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership		
				PB		
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width
			X			
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate	
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length	
Expected length	diameter	flow	length	material	pipeType	shape
	225mm	ETS	37.75	PVC	Lateral	C
Circumferential location of start point		Criticality grade	Flow control measures			
Longitudinal location of start point		Method of inspection	Photograph image storage format			
		C				
Photograph volume reference	Pre-cleaned	Purpose of inspection		Temperature		
Video image file name	Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage		
		06:54:49.218+00:00	2024-01-20			
Client defined one	Client defined two	Client defined three	Client defined four			
Client defined five	Client defined six	Client job ref				
Start Node Coordinate			End Node Coordinate			
-0.6694072053742262,50.82839611960742			-0.6694017985195222,50.82834630528386			





Lateral 2 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership		
				PB		
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width
			X			
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate	
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length	
Expected length	diameter	flow	length	material	pipeType	shape
	375mm	ETS	19.67	PVC	Lateral	C
Circumferential location of start point		Criticality grade	Flow control measures			
Longitudinal location of start point		Method of inspection	Photograph image storage format			
		C				
Photograph volume reference	Pre-cleaned	Purpose of inspection		Temperature		
Video image file name	Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage		
		07:20:47.812+00:00	2024-01-20			
Client defined one	Client defined two	Client defined three	Client defined four			
Client defined five	Client defined six	Client job ref				
Start Node Coordinate			End Node Coordinate			
-0.6692968254634581,50.82835123179899			-0.6692926341899463,50.82832774489753			





Lateral 3 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership		
				PB		
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width
			X			
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate	
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length	
Expected length	diameter	flow	length	material	pipeType	shape
	375mm	ETS	29.04	Z	Lateral	C
Circumferential location of start point		Criticality grade		Flow control measures		
Longitudinal location of start point		Method of inspection		Photograph image storage format		
		C				
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature	
Video image file name		Video image format	Video image loc system		Video image storage media	
Video volume reference	Weather	Time	Date	Inspection stage		
		07:10:57.819+00:00	2024-01-20			
Client defined one	Client defined two	Client defined three		Client defined four		
Client defined five	Client defined six	Client job ref				
Start Node Coordinate			End Node Coordinate			
-0.6692933172715376,50.8283956248927			-0.6692908294634581,50.82835123179899			





Lateral 6 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership		
				PB		
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width
			X			
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate	
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length	
Expected length	diameter	flow	length	material	pipeType	shape
	375mm	STE	27.04	Z	Lateral	C
Circumferential location of start point		Criticality grade	Flow control measures			
Longitudinal location of start point		Method of inspection	Photograph image storage format			
		C				
Photograph volume reference		Pre-cleaned	Purpose of inspection	Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media	
Video volume reference		Weather	Time	Date	Inspection stage	
			07:03:30.067+00:00	2024-01-20		
Client defined one		Client defined two	Client defined three	Client defined four		
Client defined five		Client defined six	Client job ref			
Start Node Coordinate			End Node Coordinate			
-0.6693812941841526,50.82830891436267			-0.669318302639732,50.8283087554115			





Lateral 8 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership		
				PB		
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width
			X			
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate	
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length	
Expected length	diameter	flow	length	material	pipeType	shape
	225mm	STE	26.98	Z	Lateral	C
Circumferential location of start point		Criticality grade	Flow control measures			
Longitudinal location of start point		Method of inspection	Photograph image storage format			
		C				
Photograph volume reference	Pre-cleaned	Purpose of inspection		Temperature		
Video image file name	Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage		
		00:13:30.096+00:00	2024-01-20			
Client defined one	Client defined two	Client defined three	Client defined four			
Client defined five	Client defined six	Client job ref				
Start Node Coordinate			End Node Coordinate			
-0.6694040264386114,50.828306838681044			-0.6694017985195222,50.82834630528386			





Lateral 9 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership			
				PB			
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width	
			X				
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate		
Node 3 Reference	Pipe length Reference	Loc type code		Type of Drain Sewer	Pipe unit length		
Expected length	diameter	flow	length	material	pipeType	shape	use
	375mm	ETS	15.78	CO	Lateral	C	S
Circumferential location of start point		Criticality grade		Flow control measures			
Longitudinal location of start point		Method of inspection		Photograph image storage format			
		C					
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage			
		08:25:39.726+00:00	2024-01-20				
Client defined one	Client defined two	Client defined three		Client defined four			
Client defined five	Client defined six	Client job ref					
Start Node Coordinate			End Node Coordinate				
-0.6694040264386114,50.828306838681044			-0.6694468358286943,50.828299429370105				





Lateral 11 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership		
				PB		
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width
			X			
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate	
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length	
Expected length	diameter	flow	length	material	pipeType	shape
	375mm	STE	40.69	Z	Lateral	C
Circumferential location of start point		Criticality grade		Flow control measures		
Longitudinal location of start point		Method of inspection		Photograph image storage format		
		C				
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature	
Video image file name		Video image format	Video image loc system		Video image storage media	
Video volume reference	Weather	Time	Date	Inspection stage		
		18:25:39.526+00:00	2024-01-22			
Client defined one	Client defined two	Client defined three		Client defined four		
Client defined five	Client defined six	Client job ref				
Start Node Coordinate			End Node Coordinate			
-0.6695541628928403.50.828316581794094			-0.66955371585450939.50.82837404362482			





Lateral 12 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership			
				PB			
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width	
			X				
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate		
Node 3 Reference	Pipe length Reference	Loc type code		Type of Drain Sewer	Pipe unit length		
Expected length	diameter	flow	length	material	pipeType	shape	use
	375mm	STE	11.93	Z	Lateral	C	S
Circumferential location of start point		Criticality grade		Flow control measures			
Longitudinal location of start point		Method of inspection		Photograph image storage format			
		C					
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media		
Video volume reference		Weather	Time	Date	Inspection stage		
			07:27:52.457+00:00	2024-01-20			
Client defined one		Client defined two		Client defined three		Client defined four	
Client defined five		Client defined six		Client job ref			
Start Node Coordinate				End Node Coordinate			
-0.6695418694326705,50.828297663146465				-0.6695541628928403,50.828316581794084			





Lateral 15 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership			
				PB			
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width	
			X				
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate		
Node 3 Reference	Pipe length Reference	Loc type code		Type of Drain Sewer	Pipe unit length		
Expected length	diameter	flow	length	material	pipeType	shape	use
	225mm	STE	22.81	VC	Lateral	C	S
Circumferential location of start point		Criticality grade		Flow control measures			
Longitudinal location of start point		Method of inspection		Photograph image storage format			
		C					
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time		Date	Inspection stage		
		18:38:21.629+00:00		2024-01-22			
Client defined one	Client defined two	Client defined three		Client defined four			
Client defined five	Client defined six	Client job ref					
Start Node Coordinate				End Node Coordinate			
-0.6695566215776161,50.828281215263496				-0.6695602675605716,50.82825026058892			





Lateral 16 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership		
				PB		
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width
			X			
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate	
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length	
Expected length	diameter	flow	length	material	pipeType	shape use
	225mm	ETS	12.21	Z	Lateral	C S
Circumferential location of start point		Criticality grade		Flow control measures		
Longitudinal location of start point		Method of inspection		Photograph image storage format		
		C				
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature	
Video image file name		Video image format	Video image loc system		Video image storage media	
Video volume reference		Weather	Time	Date	Inspection stage	
			18:42:36.744+00:00	2024-01-22		
Client defined one		Client defined two		Client defined three		Client defined four
Client defined five		Client defined six		Client job ref		
Start Node Coordinate			End Node Coordinate			
-0.6695566215776161,50.828281215263496			-0.6695418694326705,50.828297663146465			





Lateral 19 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership			
				PB			
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width	
			X				
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate		
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length		
Expected length	diameter	flow	length	material	pipeType	shape	use
	450mm	ETS	16.64	CO	Lateral	C	S
Circumferential location of start point		Criticality grade		Flow control measures			
Longitudinal location of start point		Method of inspection		Photograph image storage format			
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage	Client defined one		
Client defined two		Client defined three		Client defined four		Client defined five	
Client defined six		Client job ref					
Start Node Coordinate				End Node Coordinate			
-0.6695418694326705.50.828297663146465				-0.6694896834594677.50.828293588182504			





Lateral 20 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership			
				PB			
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width	
			X				
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate		
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length		
Expected length	diameter	flow	length	material	pipeType	shape	use
	450mm	STE	4.3	CO	Lateral	C	S
Circumferential location of start point		Criticality grade		Flow control measures			
Longitudinal location of start point		Method of inspection		Photograph image storage format			
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage	Client defined one		
Client defined two		Client defined three		Client defined four		Client defined five	
Client defined six		Client job ref					
Start Node Coordinate				End Node Coordinate			
-0.6694886834594677.50.828293588182504				-0.6694889879690824.50.82830091879962			





Lateral 21 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership			
				PB			
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width	
			X				
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate		
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length		
Expected length	diameter	flow	length	material	pipeType	shape	use
	375mm	STE	11.3	CO	Lateral	C	S
Circumferential location of start point		Criticality grade		Flow control measures			
Longitudinal location of start point		Method of inspection		Photograph image storage format			
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage	Client defined one		
Client defined two		Client defined three		Client defined four		Client defined five	
Client defined six		Client job ref					
Start Node Coordinate				End Node Coordinate			
-0.6694856834594677,50.828293588182504				-0.669462744274405,50.828296816042474			





Lateral 22 header sheet

Alternate ID	Division or District	Drainage Area	Joint length	Section Ownership			
				PB			
Land Ownership	Legal Status	Lining Type	PLR Suffix	Year Constructed	Height	Width	
			X				
Node 1 Coordinate	Node 1 Ref	Node 2 Node Coordinate		Node 2 Reference	Node 3 Coordinate		
Node 3 Reference	Pipe length Reference	Loc type code	Type of Drain Sewer		Pipe unit length		
Expected length	diameter	flow	length	material	pipeType	shape	use
	450mm	ETS	5.43	VC	Lateral	C	S
Circumferential location of start point		Criticality grade		Flow control measures			
Longitudinal location of start point		Method of inspection		Photograph image storage format			
Photograph volume reference		Pre-cleaned	Purpose of inspection		Temperature		
Video image file name		Video image format	Video image loc system		Video image storage media		
Video volume reference	Weather	Time	Date	Inspection stage	Client defined one		
Client defined two		Client defined three		Client defined four		Client defined five	
Client defined six		Client job ref					
Start Node Coordinate				End Node Coordinate			
-0.6694896834594677.50.828293588182504				-0.6694891890221966.50.828281603457796			



Disclaimer

The results in this report are considered the views of the suitably qualified engineer(s) you have employed to undertake the investigation. These findings are of on the day and time of the work.

This software has to be used by a qualified operative following the formal drainage standards of that specific geo-locations.

Visual investigations are an inspection of inside a drain/pie/sewer or conduit. CCTV drainage engineers are generally not qualified to comment other than pipe condition. They can only suggest required remedial actions appropriate for the pipes surveyed and not the structural integrity of a building.

A CCTV drainage survey is only part of a greater investigation of ground movement. Subsidence, for example, is a structural building issue which can have multiple causes

Pressure testing may be appropriate in certain cases, and you should be guided by a qualified professional, such as a structural engineer of the equivalent in your area.

If you have a specific requirement, please specify the data to capture any tolerances, and if possible, we will meet those requirements.

Where coordinates form part of this report, they may be of limited accuracy. A qualified technician can achieve pinpoint accuracy using 'Sonde and Trace' precision spotting techniques for record purposes or before excavations and installations.

Infographics

Observations in survey

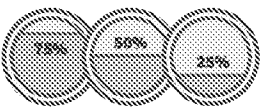
JN



Junction

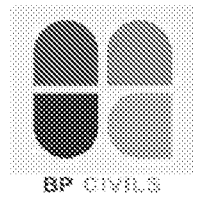
Lateral pipe was installed at construction. Described by clock reference position and diameter

WL



Water level

Changes in water level. Shown at the beginning of every survey. If dry noted as 00. Described by percentage of height or diameter. Recorded in 5%



Appendix D Critical Drainage Asset Records

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S1
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	0300 303 1773
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93658 04200
	Cover Level	9.722
	Invert Level	8.476
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
--	----------------	-------------

ASSET DETAILS	Length	N/A
	Depth	1.246m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S2
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93690 04200
	Cover Level	9.647
	Invert Level	8.375
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
--	----------------	-------------

ASSET DETAILS	Length	N/A
	Depth	1.272m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S3
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
	ASSET DETAILS	National Grid Reference (NGR)
Cover Level		9.477
Invert Level		8.586
Max. Volume		N/A
Height		N/A

	Diameter/Width	1200mm DIA.
--	----------------	-------------

ASSET DETAILS	Length	N/A
	Depth	0.891m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S4
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93724 04195
	Cover Level	9.475
	Invert Level	8.272
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
--	----------------	-------------

ASSET DETAILS	Length	N/A
	Depth	1.203m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S5
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93726 04188
	Cover Level	9.551
	Invert Level	8.241
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.31m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S6
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
	ASSET DETAILS	National Grid Reference (NGR)
Cover Level		9.799
Invert Level		8.146
Max. Volume		N/A
Height		N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.653m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S7
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93734 04120
	Cover Level	9.730
	Invert Level	7.850 / 8.130
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.880m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Catchpit
	Location Name	S7a
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
	ASSET DETAILS	National Grid Reference (NGR)
Cover Level		9.750
Invert Level		7.870 / 8.150
Max. Volume		N/A
Height		N/A

	Diameter/Width	1200mm DIA.
--	----------------	-------------

ASSET DETAILS	Length	N/A
	Depth	1.88m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S9
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
	ASSET DETAILS	National Grid Reference (NGR)
Cover Level		9.835
Invert Level		8.50
Max. Volume		N/A
Height		N/A

	Diameter/Width	1200mm dia.
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ASSET DETAILS	Length	N/A
	Depth	1.335m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S10
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93697 04147
	Cover Level	9.658
	Invert Level	8.370
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm dia.
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ASSET DETAILS	Length	N/A
	Depth	1.288m
	Designed Flow Rate	N/A
	Any Additional Uses	Catchpit

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S13
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93728 04147
	Cover Level	9.830
	Invert Level	8.114
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.716m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S14
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93677 04076
	Cover Level	10.025
	Invert Level	8.200
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.825m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S15
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93676 04105
	Cover Level	9.770
	Invert Level	8.275
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.495m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S17
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
	ASSET DETAILS	National Grid Reference (NGR)
Cover Level		9.879
Invert Level		8.099
Max. Volume		N/A
Height		N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.780m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Catchpit
	Location Name	S18
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93733 04082
	Cover Level	9.731
	Invert Level	8.054
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.677m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S20
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93770 04072
	Cover Level	9.448
	Invert Level	8.350
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.098m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S21
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93746 04074
	Cover Level	9.587
	Invert Level	8.268
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.319m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S22
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93737 04107
	Cover Level	9.640
	Invert Level	7.770
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.870m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Attenuation Basin
	Location Name	S22a
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93732 04107
	Cover Level	N/A
	Invert Level	8.500
	Max. Volume	N/A
	Height	1.00m

	Diameter/Width	650m ² area
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ASSET DETAILS	Length	N/A
	Depth	1.00m
	Designed Flow Rate	N/A
	Any Additional Uses	Headwall and Attenuation Basin

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Flow Control Chamber
	Location Name	S23
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93745 04106
	Cover Level	9.482
	Invert Level	7.740
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.742m
	Designed Flow Rate	5.0l/s
	Any Additional Uses	Flow Control

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Catchpit
	Location Name	S24
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93778 04105
	Cover Level	9.075
	Invert Level	7.520
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.555m
	Designed Flow Rate	N/A
	Any Additional Uses	Catchpit and Flap Valve

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Catchpit
	Location Name	S25
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93783 04108
	Cover Level	9.030
	Invert Level	7.211
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm DIA.
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ASSET DETAILS	Length	N/A
	Depth	1.819m
	Designed Flow Rate	N/A
	Any Additional Uses	Catchpit

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S101
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
	ASSET DETAILS	National Grid Reference (NGR)
Cover Level		8.950
Invert Level		7.700
Max. Volume		N/A
Height		N/A

	Diameter/Width	1200mm dia.
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ASSET DETAILS	Length	N/A
	Depth	1.250m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S102
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93779 04212
	Cover Level	8.370
	Invert Level	7.400
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	900mm
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ASSET DETAILS	Length	1200mm
	Depth	0.970m
	Designed Flow Rate	1.5 l/s
	Any Additional Uses	Flow Control

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S102a
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93783 04214
	Cover Level	8.300
	Invert Level	7.375
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	450mm
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ASSET DETAILS	Length	600mm
	Depth	0.925m
	Designed Flow Rate	N/A
	Any Additional Uses	Flap Valve

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S102b
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93773 04218
	Cover Level	8.370
	Invert Level	7.435
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	1200mm dia.
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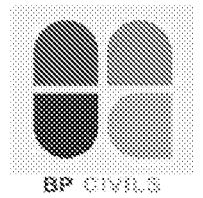
ASSET DETAILS	Length	N/A
	Depth	0.935m
	Designed Flow Rate	N/A
	Any Additional Uses	N/A

Drainage Asset Record Sheet

IDENTIFICATION	Type of Structure or Feature	Manhole
	Location Name	S103
	Drawing Identifier	N/A
MANAGEMENT/OWNERSHIP	Owners Name / Company	Southern Housing
	Address of Owner	Southern Housing Building 800 Guillat Avenue Kent Science Park Sittingbourne Kent ME9 8GU
	Owners Contact Number	
	Maintained By	Southern Housing
	Adoption Proposed	No
	Name of Adopting Authority	N/A
	Estimated Date of Adoption	N/A
ASSET DETAILS	National Grid Reference (NGR)	SU 93787 04213
	Cover Level	8.250
	Invert Level	7.350
	Max. Volume	N/A
	Height	N/A

	Diameter/Width	N/A
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ASSET DETAILS	Length	N/A
	Depth	N/A
	Designed Flow Rate	N/A
	Any Additional Uses	Headwall



Appendix E

Arun District Council Discharge of Condition Approval – AL/114/22/DOC
(Condition 10)



Arun District Council
Arun Civic Centre
Maltravers Road
Littlehampton
West Sussex BN17 5LF
Planning & Building Control General Enquiries
Tel: (01903) 737756 Fax: (01903) 730442
Dx: 57406 Littlehampton
Minicom: 01903 732765
e-mail: planning@arun.gov.uk
website: www.arun.gov.uk/planning

Thakeham Partnerships Ltd
Thakeham House
Stane Street
Billingshurst
RH14 9GN

Date: 21st October 2022

Please ask for: Mr S Davis
Tel: 01903 737874

Your Ref:

Our Ref: AL/114/22/DOC

Dear Miss Sutcliffe,

Town & Country Planning Act 1990 (as amended)

Town and Country Planning (Development Management Procedure) (England) Order 2015

Approval of details reserved by condition imposed under AL/34/22/PL relating to conditions 9-proposed surface water drainage, 10-discharge of flows to watercourses, 11-maintenance and management of surface water drainage system and 14-level survey.

Land At Wings Nursery Lidsey Road Woodgate PO20 3SU

Notification regarding the above application:

Condition Number 10

The development shall not proceed until details have been submitted to and approved in writing by the Local Planning Authority for any proposals: to discharge flows to watercourses; or for the culverting, diversion, infilling or obstruction of any watercourse on or adjacent to the site. Any discharge to a watercourse must be at a rate no greater than the pre-development run-off values and in accordance with current policies. No construction is permitted, which will restrict current and future landowners from undertaking their riparian maintenance responsibilities in respect to any watercourse or culvert on or adjacent to the site.

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W DM1, W DM2 and W DM3 of the Arun Local Plan. And to ensure that the duties and responsibilities, as required under the Land Drainage Act 1991, and amended by the Flood and Water Management Act 2010, can be fulfilled without additional impediment following the development completion. It is considered necessary for this to be a pre-commencement condition to protect existing watercourses prior to the construction commencing.

Decision:

Arun District Council have decided to **APPROVE details reserved by this condition**

The details submitted in respect of this condition namely the following items are considered to satisfy the requirements of the condition.

- Existing Watercourse Alterations General Arrangement and Levels (Ref: D1757-17-30 Rev C).
- Existing Watercourse Alterations Construction Details (Ref: D1757-17-31 Rev C); and
- Ordinary Watercourse Land Drainage Consent ref LDC/ARUN/2021/002 (14/05/21).

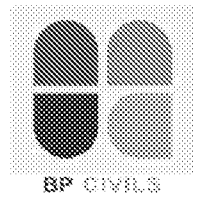
The condition is fully discharged insofar as the submission of details relates.

Please do not hesitate to contact the above officer if you require any further assistance.

Yours sincerely

A handwritten signature in black ink, appearing to be 'NC' with a flourish at the end.

Neil Crowther
Group Head of Planning



Appendix F

Arun District Council Discharge of Condition Approval – AL/114/22/DOC
(Condition 11)



Arun District Council
Arun Civic Centre
Maltravers Road
Littlehampton
West Sussex BN17 5LF
Planning & Building Control General Enquiries
Tel: (01903) 737756 Fax: (01903) 730442
Dx: 57406 Littlehampton
Minicom: 01903 732765
e-mail: planning@arun.gov.uk
website: www.arun.gov.uk/planning

Thakeham Partnerships Ltd
Thakeham House
Stane Street
Billingshurst
RH14 9GN

Date: 21st October 2022

Please ask for: Mr S Davis
Tel: 01903 737874

Your Ref:

Our Ref: AL/114/22/DOC

Dear Miss Sutcliffe,

Town & Country Planning Act 1990 (as amended)

Town and Country Planning (Development Management Procedure) (England) Order 2015

Approval of details reserved by condition imposed under AL/34/22/PL relating to conditions 9-proposed surface water drainage, 10-discharge of flows to watercourses, 11-maintenance and management of surface water drainage system and 14-level survey.

Land At Wings Nursery Lidsey Road Woodgate PO20 3SU

Notification regarding the above application:

Condition Number 11

Development shall not commence until full details of the maintenance and management of the surface water drainage system is set out in a site-specific maintenance manual and submitted to, and approved in writing, by the Local Planning Authority. The manual is to include details of financial management and arrangements for the replacement of major components at the end of the manufacturer's recommended design life. Upon completed construction of the surface water drainage system, the owner or management company shall strictly adhere to and implement the recommendations contained within the manual.

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W DM1, W DM2 and W DM3 of the Arun Local Plan. It is considered necessary for this to be a pre-commencement condition to ensure that the future maintenance and funding arrangements for the surface water disposal scheme are agreed before construction commences.

Decision:

Arun District Council have decided to **APPROVE details reserved by this condition**

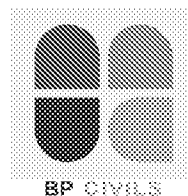
The detail submitted in respect of the drainage maintenance manual namely the Drainage Maintenance Statement (ref D1990/MS1.3) has been appraised by the Council's Drainage Engineers, is considered to be acceptable and satisfies the requirements of the condition. The condition is fully discharged insofar as the submission of details relates and on the understanding that the site-specific drainage scheme will be maintained in accordance with the approved details.

Please do not hesitate to contact the above officer if you require any further assistance.

Yours sincerely

A handwritten signature in black ink, appearing to be 'NC' followed by a flourish and a period.

Neil Crowther
Group Head of Planning



Appendix G Arun District Council Discharge of Condition Approval – AL/193/22/DOC
(Condition 9)



Arun District Council
Arun Civic Centre
Maltravers Road
Littlehampton
West Sussex BN17 5LF
Planning & Building Control General Enquiries
Tel: (01903) 737756 Fax: (01903) 730442
Dx: 57406 Littlehampton
Minicom: 01903 732765
e-mail: planning@arun.gov.uk
website: www.arun.gov.uk/planning

Thakeham Partnerships Ltd
Thakeham House
Summers Place
Stane Street
Billingshurst
RH14 9GN

Date: 13th July 2023

Please ask for: Mr S Davis
Tel: 01903 737874

Your Ref:

Our Ref: AL/193/22/DOC

Dear Mrs Fawdry,

Town & Country Planning Act 1990 (as amended)

Town and Country Planning (Development Management Procedure) (England) Order 2015

Approval of details reserved by condition imposed under AL/34/22/PL relating to condition 9-surface water drainage.

Land At Wings Nursery Lidsey Road Woodgate PO20 3SU

Notification regarding the above application:

Condition Number 9

Development shall not commence, other than works of site survey and investigation, until full details of the proposed surface water drainage scheme have been submitted to and approved in writing by the Local Planning Authority. The design should follow the hierarchy of preference for different types of surface water drainage disposal systems as set out in Approved Document H of the Building Regulations, and the recommendations of the SuDS Manual produced by CIRIA. Winter groundwater monitoring to establish highest annual ground water levels and winter Percolation testing to BRE 365, or similar approved, will be required to support the design of any Infiltration drainage. No building shall be occupied until the complete surface water drainage system serving the property has been implemented in accordance with the agreed details and the details so agreed shall be maintained in good working order in perpetuity.

Reason: To ensure that the proposed development is satisfactorily drained in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan. This is required to be a pre-commencement condition because it is necessary to implement the surface water drainage system prior to commencing any building works. This will be subject to consultation with ADC's Drainage Engineers and Tree Officer.

Decision:

Arun District Council have decided to **APPROVE details reserved by this condition**

The following details submitted in respect of the proposed surface water drainage scheme, are now

acceptable and satisfy the requirements of the condition:

- D1757-13-100 Rev X Technical Layout.
- D1990-15.3 Rev J Basin Details Sheet 1 of 2.
- D1990-15.7 Basin Section Alternative (1.0m Depth); and
- D1990-15.9 Basin Section Alternate Overspill Area.

The condition is fully discharged insofar as the submission of details relates and on the understanding that the surface water drainage scheme will be implemented in accordance with the approved scheme and permanently retained in good working order thereafter.

Please do not hesitate to contact the above officer if you require any further assistance.

Yours sincerely

A handwritten signature in black ink, appearing to be 'NC' followed by a flourish and a period.

Neil Crowther
Group Head of Planning