

SuDS Maintenance

Worcester Close

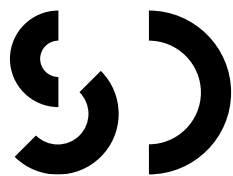
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SDE2244

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20/12/2024

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P01

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2244-SDE-00-XX-RP-C-0010





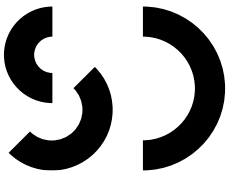
Document Control

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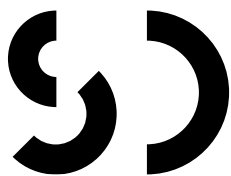


1. Introduction

SD Engineers have been appointed by the client to produce an operation and maintenance document as part of the O&M manual for handover, and as part of the planning conditions attached to the development.

This report has been prepared for the sole use of the client and the contents should not be relied upon by others without the express written authority of SD Engineers. This document sets out the principles upon which the proposed drainage elements on site should be maintained during their intended life span.

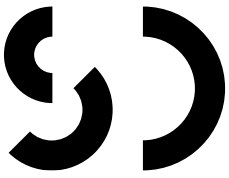
This report includes the Proposed Drainage Layout, showing nearby existing drainage assets, derived from surveys and local authority asset searches.



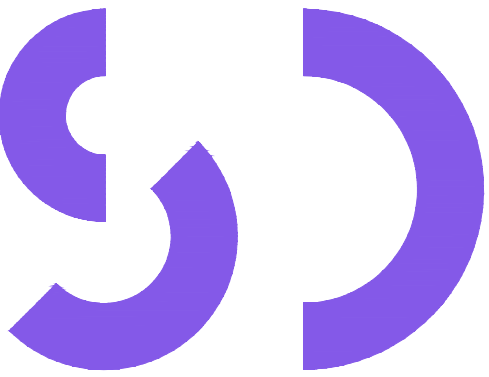
2. Operation and Maintenance

To ensure that the drainage networks continue to perform efficiently, it is essential that they are appropriately maintained. The schedule below provides information on maintenance of the major features of the proposed drainage systems. The below information has been summarised, for detailed maintenance works information, refer to the relevant device / structure section within CIRIA C753: The SuDS Manual.

Drainage Asset	Responsible Organisation	Maintenance Work	Frequency
General Pipework and manholes	Private ownership or management company	Inspect pipework and manholes and clear any blockages	Annually or after severe storm events
		Repair to any defects over long term usage	
Geocellular soakaway	Private ownership or management company	Inspect and clear inlets, outlets and any overflows as well as inspect catchpits up and downstream of storage	6 Monthly
		Litter and debris removal	Monthly
		Amenity grass cutting of surrounding green spaces	As required
Channel Drains	Private ownership or management company	Inspect channel grating for obvious damage and replace where necessary	Annually or where required
		Channel to be cleared with pressure washing as per manufacturers recommendations	Annually or after severe storm events
Permeable Paving	Private ownership or management company within estate non-adopted zones	Brushing and vacuuming	Annually or if clogging is noticed at a more frequent rate
		Removal of weeds / mow adjacent grassed areas	As required / annually
		Remedial work, replacing broken blocks where necessary	As required
		Inspect for poor operation / inability to drain surface water	Three monthly, or 48hrs after large storms within first 6 months
		Monitor inspection chambers	Annually



Appendix A – Proposed Drainage Layout



Notes

- These drawings are not to be used for setting out purposes. Refer to the latest Architect's information and site measure as required.
- Contact SD Engineers in the event of any discrepancies between findings on site and these drawings.
- Drawing is to be read in conjunction with the SD Engineer's Specification and General Notes.
- 3D views are indicative only and conflicting 2D information should take precedence. If in doubt contact SD Engineers prior to starting works.

Information Received

This drawing has been developed using information received up to and including:

10/12/2024

Where information provided to us is incomplete or subject to change, our drawings will need to be updated accordingly.

Note:

No contamination found on site

P02 20/12/2024 Issued for Information HG BB BB

Rev Date Amendment Dra Rev App

S1

Suitable for coordination

Worcester Close
SDE2244

Proposed Drainage Layout

Drawn
HG

Status
Preliminary

Reviewed
BB

Date
20/12/2024

Approved
BB

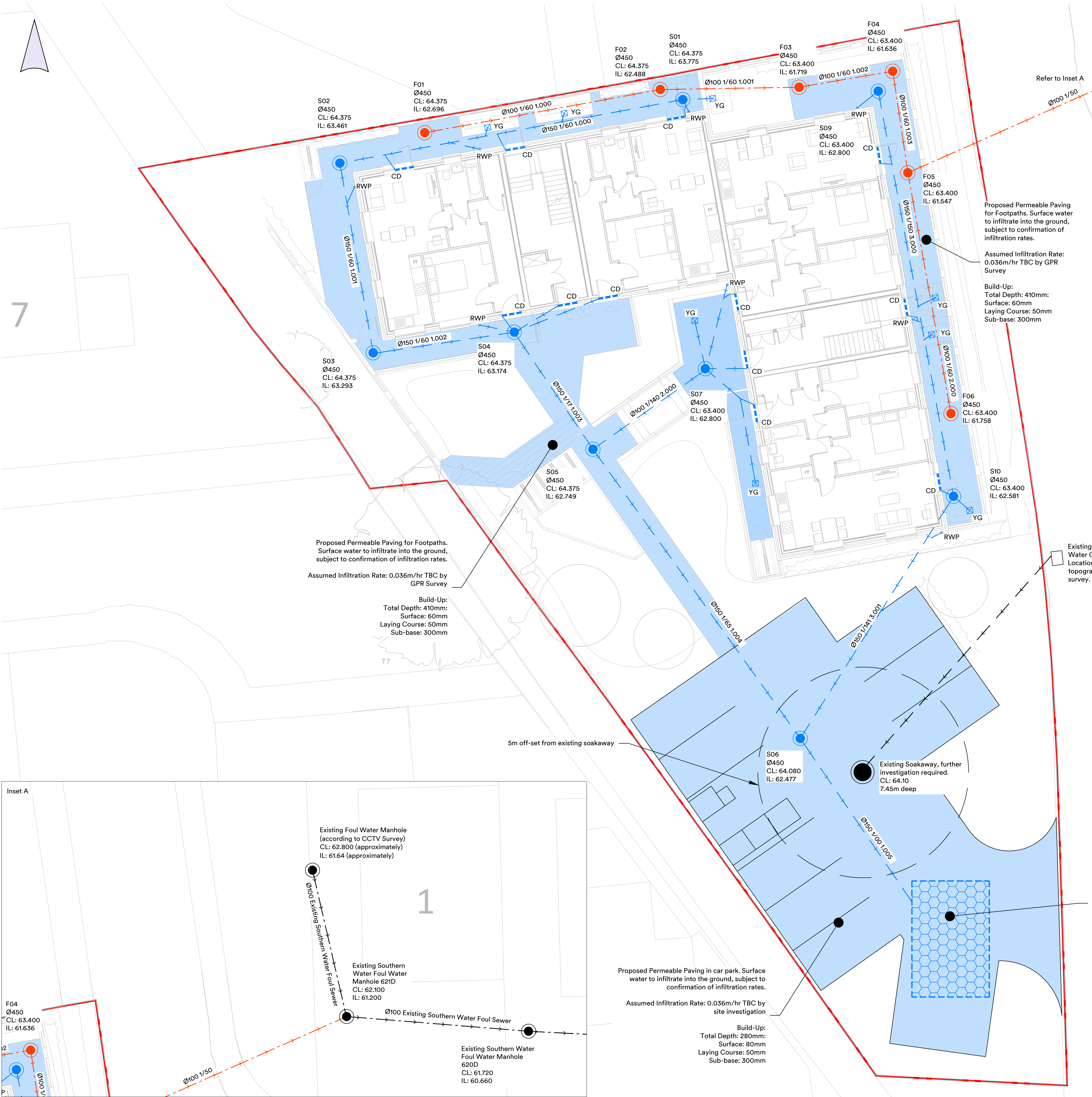
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Project	Originator	Volume	Level	Type	Role	No.	Status	Revision
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Below ground drainage key

Existing drainage

- Existing Drainage - Foul Water
- Existing Drainage - Surface Water
- Existing Drainage - Manholes
Sizes as shown on plan / schedules
Information as per services survey
- Existing Road Gully

Foul Water

- Proposed Drainage - Foul Water drain
- Proposed Drainage - Foul Water Manholes
Sizes as per plan and schedules
PPIC - Polypropylene Inspection Chamber
PCC - Pre-Cast Concrete

Surface Water

- Proposed Drainage - Surface Water drain
- Proposed Drainage - Surface Water channel drain (ACO or similar approved)
- Proposed Drainage - Surface Water Manholes
Sizes as per plan and schedules
- Proposed Drainage - Cellular Soakaway
Sizes as per plan and schedules
Refer to crate manufacturers' specification
- Proposed Drainage - Permeable surfacing
Permeable paving / permeable asphalt
Refer to Landscape Architect's / Construction build-ups drawing for more information
- RWP - Rain Water Pipe
- YG - Yard Gully (trapped and roddable)

Refer to Inset A

Proposed Permeable Paving for Footpaths. Surface water to infiltrate into the ground, subject to confirmation of infiltration rates.

Assumed Infiltration Rate: 0.036m/hr TBC by GPR Survey

Build-Up:
Total Depth: 410mm:
Surface: 60mm
Laying Course: 50mm
Sub-base: 300mm

Existing Surface Water Gully. Location based on topographical survey.

Proposed Geocellular Soakaway Tank - Wavin AquaCell
Area: 25m²
Depth: 1m
Volume: 23.75m³ (95% void ratio)
Assumed Infiltration Rate: 0.036m/hr TBC by site investigation.
Cover Level: 64.080
Top of Tank: 63.080
Bottom of Tank: 62.080



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