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Drainage Management & Maintenance Plan

Client:	Riva Homes
Project:	48785 Croft St, Birkenshaw, Bradford BD11 2HT

Introduction

This management and maintenance plan should be read in conjunction with project drawings, in particular the following.

- Part A Carlow Requirements. Rev 3 (2025)
- Part B Method Statement. Rev 5 (2025)
- Part C Site Risk Assessments. Rev 2 (2025)

Maintenance of the SuDS systems proposed for this site will be in accordance with the recommendations within The SuDS Manual (CIRIA C753, 2015) as stipulated in Table 1, along with those provided by suppliers and product specifications.

Table 1 summarises maintenance actions and frequency for each component (surface and sub surface) of the drainage system. Additional maintenance to that scheduled will also be required after a flood event.

Maintenance access requirements such as vehicle and machinery access (where applicable) will also need consideration.

Any features adopted by authorities, such as drainage authorities, will be maintained under their normal regime of inspection and maintenance

SuDS SYSTEM	ACTION	FREQUENCY*

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Permeable Paving	Initial inspection of porous pavement	Monthly for three months after installation
	General removal of litter and debris. Brush regularly.	Monthly (or more frequently if required)
	Inspect porous pavements for evidence of poor operation and/or weed growth – if required, take remedial action	Three-monthly, 48 hours after large storms for first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Brushing and vacuuming of porous pavements (standard cosmetic sweep over whole surface)	Annually, after autumn leaf fall
	Removal of weeds from porous pavements or management using glyphosate applied directly into the weeds by an applicator rather than spraying	Annually (or more frequently if necessary)
	Remedial work to any depressions, rutting and cracks of the permeable pavement considered detrimental to the structural performance or a hazard to users, and replace lost jointing material	As required
	Rehabilitation of surface and upper substructure of the permeable pavement by remedial sweeping	Every 15 years or as required
Sub-surface storage	Remove debris from catchment surface where it may affect performance	Monthly
	If the system allows rainfall infiltration from above, check filter surface for blockages. Remove and replace infiltration material if deemed necessary.	Annually
	Remove sediment from pre-treatment structures	Annually or as required
	Inspect inlets, outlets, vents and overflows to ensure they are operating as designed	Annually
	Remedial work to repair inlets, outlets, overflows and vents	As required
	Survey inside of storage area for sediment build up. Remove sediment if required.	As required
Silt trap manholes	Inspect surface structures of inlets and outlets removing obstructions and silt as necessary. Check there is no physical damage.	Monthly
	Inspect silt traps and note rate of sediment accumulation	Monthly in the first year and then annually (or more frequently if necessary)

	Remove cover and inspect ensuring water is flowing freely and that the route for water is unobstructed. Remove debris and silt. Undertake inspection after leaf fall in autumn.	Annually
	Where there is a build-up of silt exceeding 50% of the sump depth, the excessive sediment shall be removed and disposed of at a licensed tip.	As required
Guttering, gullies and piped drainage system	General removal of litter and debris.	6 monthly, after autumn leaf fall (or as required)
	Cleaning of gullies, drainage channel and drainage channel sump units to remove debris and silt.	6 monthly, after autumn leaf fall (or more frequently if necessary)
	Cleaning of manholes to remove debris and silt.	Annually, after autumn leaf fall (or more frequently if necessary)
	If the system allows rainfall infiltration from above, check filter surface for blockages. Remove and replace infiltration material if deemed necessary.	Annually
	Remove sediment from pre-treatment structures.	Annually or as required
	Inspection of all access chambers, inspection chambers, manholes and proprietary storage units to identify and make good any defects as necessary.	Annually
	Inspect inlets, outlets, vents and overflows to ensure they are operating as designed.	Annually
Vortex flow control	Remove Litter and Debris	Monthly
	Cleaning of flow control to remove debris and silt	Annually (or more frequently if necessary)
	Inspect inlets and outlets for blockages and clear if required	Monthly
	Repair any damages to flow control device and manhole	As required
	Repair any damage to manhole cover	As required
	Repair any damage to inlet/outlet	As required
Inlets	Inspection for debris and sediment build up.	Annually (and following poor performance)
	Inspect inlets for blockages and clear if required.	Monthly

	Inspect inlet pipework for blockages, clogging, standing water and structural damage.	Monthly
	If drain inlet has settled, cracked or moved, investigate and repair as appropriate.	As required

Maintenance

Method statements will be provided prior to construction. These will include details on how contaminated water, erosion and sediment control will be dealt with during construction. Please refer to Carlow Concrete Part B Method Statement. Rev 5 (2025).

In addition to the maintenance advice provided in Table 1, during winter ensure that drainage structures are not blocked by ice, snow or any other debris during winter months.

A record of all maintenance activities should be logged by the operators using Appendix A or similar proforma and kept as a live record.

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APPENDICES

1 – Eastwood Consulting Engineers Live Maintenance Checklist

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General Information			
Site ID			
Site Location and co-ordinates			
Elements forming the SUDs scheme		Approved drawing reference	
Inspection Frequency		Approved specification reference	
Type of Development		Specific purpose of any parts of the scheme (eg biodiversity, wildlife and visual aspects)	

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Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
General Inspection Items								
Evidence of erosion, channelling, ponding (where not desirable) or other poor hydraulic performance								
Evidence of poor water quality								

Inspection Date

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	Details	Y/N	Action Required	Date Completed	Details	Y/N	Action Required	Date Completed
Silt/Sediment Accumulation								
Id there any sediment accumulation at inlets/outlets								
If yes, state the depth in mm								
Removal required? State waste disposal requirements have been compiled with environmental regulator								
Is surface clogging visible								

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Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
Blockages/Litter Build up								
Is there evidence of litter build up (if yes, has this been removed)								
Is there evidence of clogging or blockages (if yes, has this been removed)								
Vegetation								
Is vegetation in the basin/swales satisfactory								

(density, weed growth, coverage)								
Does any area need weeding, mowing or pruning (if yes, has this been undertaken)								
Is there evidence of invasive species becoming established (state action required								

Inspection Date								
	Details	**Y/N**	**Action Required**	**Date Completed**	**Details**	**Y/N**	**Action Required**	**Date Completed**
Infrastructure								
Is the flow control in good condition (silt, damages, evidence of								

tampering) – if yes, please provide details								
Is there evidence of unauthorised inflows?								
Is the inflow/outflow structures in a suitable condition – please provide information								
Are there any other matters that could affect the performance of the system – if yes give details								

Inspection Date

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	Details	Y/N	Action Required	Date Completed	Details	Y/N	Action Required	Date Completed
Other Observations								
Information appended (photos etc)								
Suitability of current maintenance regime								
Continue as current Increase maintenance Decrease maintenance								
Next Inspection								
Proposed date for next inspection								

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Further Comments	