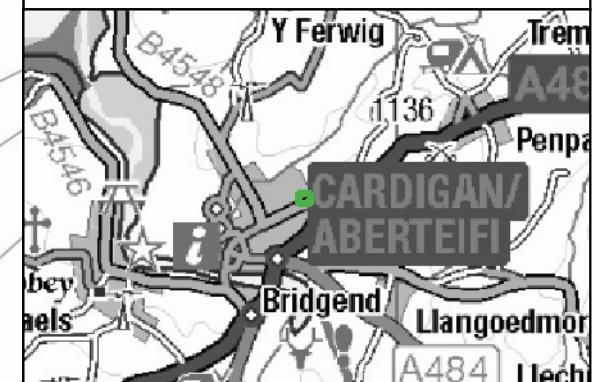


Notes:  
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

**LEGEND**

- Site Boundary
- Permeable Surfacing
- Flow Control Chamber
- Existing Pump Chamber
- Surface Water Inspection Chamber
- Surface Water Drain
- Assumed route of Rising Main
- Watercourse



CLIENT:  
Lidl Great Britain Limited

**waterco**  
www.waterco.co.uk

SCHEME:  
B&M, Aberystwyth Road, Cardigan

PLOT TITLE:  
Concept Drainage Sketch

PLOT STATUS: FINAL DATE: 10-11-2025

DRAWN: AM CHECKED: AW APPROVED: NJ PLOT SCALE AT A3: 1:500

PLOT NAME: 17128\_Concept\_Drainage\_Sketch REVISION: -

## Appendix J Maintenance Schedules

## Operation and Maintenance Requirements for Flow Control Chambers and Devices

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. Take remedial action if required.	Monthly (at start, then half yearly)
	Debris removal from catchment surface	Monthly
	Visual inspection of flow control chamber to assess if system is draining down correctly and the orifice or flow control device is not blocked. Assess if there is any build up of silt in chamber sump.	Monthly (at start, then half yearly) & after large storm events
	Removal of accumulated silt from silt trap and catchpit sumps.	As required
Remedial actions	Repair/rehabilitation of inlets/outlets.	As required

The maintenance requirements detailed above are to be undertaken by the site owner.

**Name :**

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**Position :**

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**Date :**

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**Signed on behalf of the site owner :**

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## Operation and Maintenance Requirements for Geo-cellular Storage Tanks

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	For systems where rainfall infiltrates into the geo-cellular storage from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary	Annually
	Remove sediment from pre-treatment structures and/ or internal forebays	Annually, or as required
Remedial actions	Repair/rehabilitate inlets, outlet, overflows and vents	As required
Monitoring	Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually
	Survey inside of geo-cellular storage for sediment build-up and remove If necessary	Every 5 years or as required

Ref. Table 21.3, CIRIA C753 'The SuDS Manual'

The maintenance requirements detailed above are to be undertaken by the site owner.

**Name :**

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**Position :**

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**Date :**

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**Signed on behalf of the site owner :**

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## Operation and Maintenance Requirements for Permeable Paving

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface)	Once a year, after autumn leaf fall, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations – pay particular attention to areas where water runs onto pervious surface from adjacent impermeable areas as this area is most likely to collect the most sediment
Occasional maintenance	Stabilise and move contributing and adjacent areas	As required
	Removal of weeds or management using glyphosate applied directly into the weeds by an applicator rather than spraying	As required – once per year on less frequently used pavements
Remedial actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50mm of the level of the paving	As required
	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10 to 15 years or as required (if infiltration performance is reduced due to significant clogging)
Monitoring	Inspect for evidence of poor operation and / or weed growth – if required, take remedial action	Three-monthly, 48hr after large storms in first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

Ref. Table 20.15, CIRIA C753 'The SuDS Manual'

The maintenance requirements detailed above are to be undertaken by the site owner.

**Name :**

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**Position :**

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**Date :**

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**Signed on behalf of the site owner :**

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## Operation and Maintenance Requirements for Piped Drainage Systems

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Inspect and identify any areas that are not operating correctly. Take remedial action if required.	Monthly (at start, then half yearly)
	Debris removal from catchment surface	Monthly
	Visual inspection of up/downstream chambers to assess if pipe length is draining down correctly and/or is blocked. Assess if there is any build up of silt in chamber sump.	Monthly (at start, then half yearly) & after large storm events
	Removal of accumulated silt from silt trap and catchpit sumps.	As required
Occasional Maintenance	CCTV Survey to confirm condition of pipework, identify any repairs/replacement works and action as required.	Following Poor Performance.
Remedial actions	Repair/rehabilitation of inlets/outlets.	As required

The maintenance requirements detailed above are to be undertaken by the site owner.

**Name :**

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**Position :**

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**Date :**

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**Signed on behalf of the site owner :**

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## Appendix K Concept Designers Risk Assessment (cDRA)

<b>Project:</b>	B&M, Aberystwyth Road, Cardigan
<b>Client:</b>	Lidl Great Britain Limited
<b>Report Reference:</b>	17128-FCA&DS-01

**Project No:** 17128

<b>Prepared by:</b>	Adam McCulloch
<b>Checked by:</b>	Aled Williams
<b>Reviewed by:</b>	Nigel Jones

**Date:** 23/10/2025  
**Date:** 23/10/2025  
**Date:** 23/10/2025

**Requirement:**

The Construction (Design and Management) Regulations 2015 (CDM 2015) place an obligation on the Designer to take all reasonable steps to provide, with the design, sufficient information about the design, construction or maintenance of the structure, to adequately assist the client, other designers and contractors to comply with their duties under CDM. The Designer has undertaken this assessment to identify any extra-ordinary risks, or those that would not be expected on this particular project by an experienced and competent Contractor. The aim is to avoid needless paperwork and bureaucracy and ensure the assessment is project specific, relevant and proportionate to the risk.

**DRA Summary**

Each of the following risk areas has been considered using the question below. Is a risk present which is considered to be **extra-ordinary or unexpected** in this instance?

If **YES** - A detailed risk assessment is required at design stage

If **UNKNOWN** - Insufficient information has been provided at concept design stage and the risks are unknown. Further consideration must be given at design stage(s)

If **NO** - No further action is required.

Hazard Ref.	Risk Areas	YES, UNKNOWN or NO	Comments
1	Ground Conditions	Unknown	To be considered at detailed design
2	Hazardous Environment	Unknown	To be considered at detailed design
3	Existing Working Environment	Yes	Existing B&M store on site
4	Existing Services	Yes	See utility survey - multiple buried services
5	Proximity to Other Structure(s)	Unknown	To be considered at detailed design
6	Near Waterbody / flood risk	No	To be considered at detailed design
7	Proximity to Other Activities	Unknown	To be considered at detailed design
8	Sequence of Construction	Unknown	To be considered at detailed design
9	Access	Unknown	Access is provided from Aberystwyth Road
10	Interfaces	Unknown	To be considered at detailed design
11	Confined Space Working	Unknown	To be considered at detailed design
12	Maintenance Considerations	Unknown	Permeable surfacing, hydro-brake and pump chamber
13	Working at Height	Unknown	To be considered at detailed design
14	Steep Slopes	Yes	Steep slopes on western boundary - retaining walls proposed
15	Demolition / Refurbishment / Repair	Unknown	Exisitng B&M Store to be demolished
16	Welfare	Unknown	To be considered at detailed design
17	Occupational Health	Unknown	To be considered at detailed design
18	Environmental Issues	Unknown	To be considered at detailed design
19	Other Significant Hazards not Identified Above	Unknown	To be considered at detailed design
20	Residual Risk to Future Users	Unknown	To be considered at detailed design