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CONSULTING CIVIL & STRUCTURAL ENGINEERS

ALDI STORE
PARK ROAD
RUABON

DRAINAGE
MAINTENANCE
DOCUMENT

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DRAINAGE MAINTENANCE DOCUMENT

Introduction

This maintenance document covers the drainage system that serves the Aldi Store on the development site.

Initial Design

The drainage network on the site has been designed to use a soakaway network and infiltration testing has been undertaken to determine the capacity of the sub-soils for this solution.

The design has required the use of an attenuation tanks to hold surface water whilst the infiltration occurs. All drainage from the car park or service yard surfacing has been designed to pass through an oil separator which has been sized for the developed area.

Maintenance Requirements

Given the drainage installation is a gravity fed system the requirements for maintenance are similar to any typical installation.

It is recommend that road gullies are cleared of silt build up on an annual basis to prevent the build-up of silts within the below ground drainage network. In addition, the roads should be swept of debris, particularly around the autumn months to reduce the ingress of leaf litter.

In a similar manner, the ACO channels should be cleared on an annual basis ensuring that the proprietary silt traps are cleaned as necessary.

Two oil separators have been provided to the site and these have been alarmed back to the store managers office. When these alarms sound, information will be available in the operation and maintenance manuals to instruct the how to proceed. This will generally be contacting a drainage specialist to diagnose the issues to correct the fault.

An inspection of the oil separators should be undertaken on an annual basis to ensure the filters are operating satisfactorily and the alarms are functioning correctly.

There are two storage tanks within the developed and both have been specified as ESS Versavoid tanks. These are capable of jet cleaning and vacuuming as with any conventional drainage pipe with access points either directly over the tank or at the upstream end. Immediately upstream of the soakaway storage tanks are silt trap manholes and these need to be emptied, at least annually, to prevent any silts entering the soakaway tanks.

As with any drainage system is it recommended that jet clearing of the system is undertaken on a 5 yearly basis. This should check for defects in the pipework and allow for the removal of any debris.