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Proposed development at

Moss Green Close,

Huyton,

Knowsley

for Built Group Ltd.,

Storm Water / SUDs Maintenance Plan

Ref.: 21475
July 2021

1. Introduction

This report outlines the storm water SUDs maintenance plan for the proposed residential development at Moss Green Close, Huyton, Knowsley.

The considered drainage solution comprises an attenuated network with discharge rates to the existing surface water sewer within Moss Green Close limited by a flow control unit. Storage volume is provided in oversized pipes for the 1 in 30 year events and underground cellular storage tank or type 3 MOT for the 1 in 100 year event plus 40% climate change.

The attenuated (storage) system differs from traditional unrestricted drainage system and requires a different maintenance regime as the consequence of poor maintenance upon these systems is likely to be more onerous than with a traditional unrestricted piped system.

Therefore, a plan of routine inspection maintenance should be adopted and adhered to to prevent failure due to inadequate maintenance. This document describes the drainage systems used and provides a framework for future maintenance procedures.

2. Site Drainage Components

The main drainage components are: -

- i. Roof water from the building is collected in pipe work and routed to the surface water network. Requires periodic inspection and de-silting as required.
- ii. External paved areas are collected by trapped gullies and channels into piped network and conveyed to the surface water network. Requires periodic inspection and de-silting.
- iii. Flow control unit limits the discharge of surface water to the receiving sewer to an agreed rate. Requires periodic inspection for blockages.
- iv. Storage tank is formed with modular crate system wrapped with an impermeable membrane to prevent escape of water and ingress of soil particles. Requires periodic inspection and de-silting.

3. Maintenance Schedule

The drainage systems will be fully maintained by Livv Housing Group, Lakeview, Kings Business Park, Prescott L34 1PJ - tel.: 0151 290 7000. They will bear all costs associated with cleaning and regular inspections as required.

The rate of build-up of silt and debris within a drainage system varies from site to site and is dependent upon individual site characteristics. Therefore, the frequency of actions below should be adopted as a minimum standard for a period of 24 months after development completion. This period will be sufficient to assess the system performance over 2 complete seasonal cycles after which the maintenance activity schedule may be reviewed accordingly.

Action	Frequency
Clear external areas of litter	Monthly
Clear guttering of leaves and debris.	Twice yearly. Spring and Autumn after leaf fall
Inspect all rainwater manhole chambers for debris and blockages.	6 Monthly and after heavy rainfall. Remove debris / silt as encountered.
Inspect all tank access points for sediment.	Monthly for 3 months, then 6 Monthly and after heavy rainfall. Remove debris /silt as encountered.
Flow Control	6 monthly Inspect and remove debris