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Rainfall depth = 134.06 mm

Total available = 0.00 m³

Job No. Sheet no. Date 28/09/18 By Checked Reviewed

MasterDrain

Project Westlakes, Gosforth

Title Data for Permeable Paviors Exfiltration system

Local Hydrology constants for GOSFORTH (CUMBRIA):-

M5-60 = 18.5	r = 0.26
Storm Return period = 100 years Climate change factor = 30%	Storm duration (hrs) = 24

Roadbase material:-

Voids = 33.0% Saturation depth = 60.0% Infilt. coeff = 1.548 m/hr

Roadbase dimensions for water storage:-

Storage depth = 677 mm	
Infilt. depth = 37152.0 mm	

Extra contributing area:-

Total drained area = 1528 Permeable paved area = 310 Revised Roadbase storage depth = 0 mm

Storage volume

Calculated storage volume = 0.00 m³

Loadings

Load category = Cat 1 - Domestic (GVW 2000Kg) Safety factor = Certain Roadbase stability = As stable as graded 20mm crushed rock to BS 882 Sub-base material = 150mm - As stable as graded 20mm crushed rock to BS 882 Capping Layer = 200mm capping material

Structural roadbase thicknesses

Structural roadbase - Cement stabilised open graded crushed rock = 0 mm Storage roadbase - Open graded crushed rock = 150 mm

Additional thickness equivalent to sub-base and capping layer amounts to 350mm

Total depth is equal to Water storage depth + Extra contributing area factor + equivalent sub-base and capping layer. Therefore, calculated storage thickness amounts to 350 mm

Specification:-

Wearing surface = $210 \times 105 \times 65$ Pemeable Paviors Bedding course = 50mm x 6mm crushed stone Roadbase = 350mm 20-5 coarse graded crushed rock Geotextile = Woven Geotextile