

Hampshire County Council		Page 1
DataCentre, Room 348, QE11 Court		
The Castle, Winchester		
Hampshire, SO23 8UJ		
Date 03/11/2025 10:54	Designed by GF	
File EXISTING RUNOFF CALCS.MDX	Checked by DR	
Innovyze	Network 2020.1.3	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm Network 1

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model

Return Period (years)	100
FEH Rainfall Version	2013
Site Location GB 471702 106641 SU 71702 06641	
Data Type	Point
Maximum Rainfall (mm/hr)	50
Maximum Time of Concentration (mins)	30
Foul Sewage (l/s/ha)	0.000
Volumetric Runoff Coeff.	0.750
PIMP (%)	100
Add Flow / Climate Change (%)	0
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Min Design Depth for Optimisation (m)	1.200
Min Vel for Auto Design only (m/s)	1.00
Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.050	4-8	0.019

Total Area Contributing (ha) = 0.069

Total Pipe Volume (m³) = 0.389

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Hot Start (mins)		0		MADD Factor * 10m³/ha Storage		2.000																																								
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Number of Input Hydrographs		0		Number of Storage Structures		0																																								
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M5-60 (mm)		19.500 Cv (Winter)		0.840																																										
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