



SURFACE WATER DRAINAGE STRATEGY

30yr Volumes TWL						8.25
	Plan area	IL	Effective depth	Geometry reduction factor for average depth across plan area	Vol	
Car park 1	450	8	0.25	1	113	
Car park 2	460	7.8	0.45	1	207	
Car park 3	40	7.8	0.45	1	18	
Car park 4	60	7.8	0.45	1	27	
Car park 5	90	7.8	0.45	1	41	
Swale 1	230	7.5	0.75	0.5	86	
Swale 2	250	7.5	0.75	0.5	94	
Pond	1050	7.5	0.75	0.85	669	
Total						1254

100yr+40% Volumes TWL						8.40
	Plan area	IL	Effective depth	Geometry reduction factor for average depth across plan area	Vol	
Car park 1	450	8	0.4	1	180	
Car park 2	460	7.8	0.6	1	276	
Car park 3	40	7.8	0.6	1	24	
Car park 4	60	7.8	0.6	1	36	
Car park 5	90	7.8	0.6	1	54	
Swale 1	230	7.5	0.9	0.5	104	
Swale 2	250	7.5	0.9	0.5	113	
Pond	1050	7.5	0.9	0.9	851	
Total						1637

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Runoff from roofs to rain gardens where practicable.
Runoff from roads to filter strips or tree pits where practicable.

Main parking areas spaces to be constructed as lined permeable paving.

Peak discharge from site to be limited to Q_{bar} (based on area contributing to drainage system) for all rainfall events up to the 100year+40% by means of Hydro-Brake or similar flow control device.
All SuDS features to be designed to resist flotation.

