

BARNHILL GARDEN VILLAGE  
Sustainable Urban Drainage Systems Plan

sc 1/1500

SUDs Pillars

**Water Quantity** - Controlling the quantity of runoff to support the management of flood risk and maintain and protect the natural water cycle.

**Water Quality** - Managing the quality of the runoff to prevent pollution.

**Amenity** - Creating and sustaining better places for people.

**Biodiversity** - Creating and sustaining better places for nature.

Suds reduce the impact of new construction by replicating natural drainage systems, as they have a low environmental impact and collect, store, filter and clean water before releasing it back into the environment.

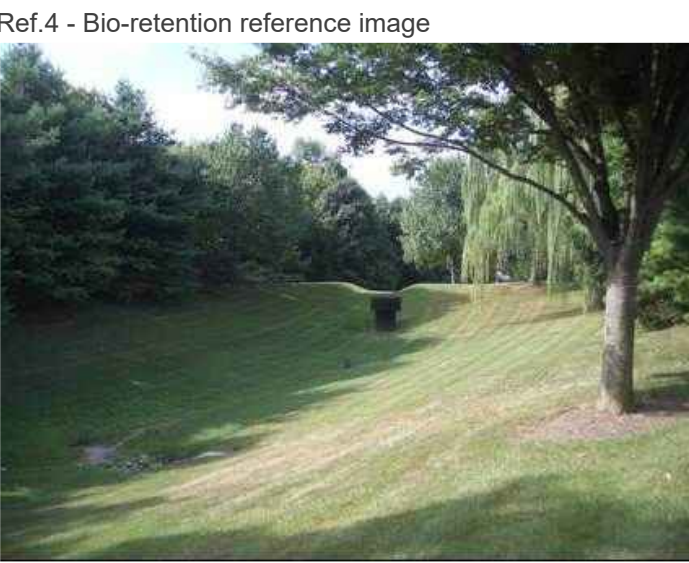
Site controlled SuDs cover the entire development site and tend to include larger scale methods mixed with the smaller scale products. They include:

- Detention basins – A depression covered with vegetation to hold rainfall and slowly drain it.
- Retention ponds – A larger depression which stores water, even during dry conditions.
- Wetlands – A vegetative area with shallow ponds and marshland.
- Swale
- Permeable paving
- Filter drains



Indicative SUDs

- Proposed infiltration area under grass pitch
- Proposed wetland pond
- Rain gardens
- Bioretention area
- Sedum roofs
- Existing ditch
- Permeable surface
- Proposed green areas



+ 087 910 1600  
+ info@gannonandassociates.ie  
+ Terenure Enterprise Centre  
17 Rathfarnham Road, D6W

**gannon + associates**

G / 27/06/22	SUDs	PS/AP	JG
REV DATE	REVISION	DRAWN	CHECKED
CLIENT			
Alanna Homes & Alcove Ireland Four Ltd.			
PROJECT TITLE			
Barnhill Garden Village - Proposed development at Barnhill, Clonsilla, Co.Dublin			
PROJECT ARCHITECT			
CDP Architects / CWOB Architects / Delphi Design			
SHEET TITLE			
Sustainable Urban Drainage Systems Plan			
SHEET NO.		SHEET SIZE	
21154_LP_G_SuDS		A1	
SCALE		REVISION	
1/1500		G	
STAGE		DATE	
Planning Stage		June 2022	