

Legend:

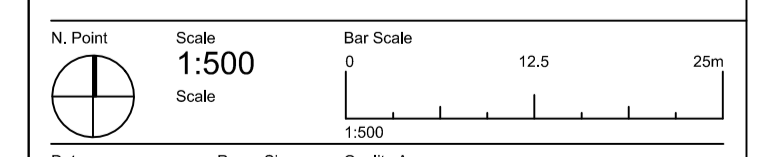
- Swale
- Filter carrier drain
- Circular pipe
- Porous paving
- SuDS basin
- Manhole
- Inlet/Outlet
- Footpath (permeable)
- Impermeable surface

- Notes:**
- All surface water runoff to be collected into SuDS basin on the south side of the site.
 - Surface water calculations include a 55% increase on current storm models to allow for climate change in accordance with Perth and Kinross Council guidelines. A 10% urban creep factor is included in this figure.
 - SEPA guidance requires that the drainage system should be designed to restrict runoff to the lower of Q2 and Qbar, which in this location is 2.5l/s. This amounts to a total storage requirement of 154m³ for a 1 in 30 year flood event and 245m³ for a 1 in 200 year event.
 - The proposed design provides a potential attenuation capacity of up to approximately 212m³ in the detention basin, and an additional 169m³ in the porous paving for a total of 381m³. Additional storage volumes will be made available within the network and calculated during the detailed design stages.
 - Short sections of the eastern swale need to be culverted to allow access to housing plots.

PO2	27.03.23	Revised SuDS layout	JE	
PO1	20.03.23	For stage approval	JE	RD
Revision	Date	Description	Initials	Checked by

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Project No. **40159**
 Project Name **Kinloch Rannoch**
 Client **Rannoch CT/Dunalalastair Estate**
 Title **Drainage Strategy (Surface Water)**



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FOR APPROVAL Suitability **S4**

Project	Origin	Location	Type	Role	Class	Number	Revision
40159-IFL-XX-DR-C-40-001-PO2							

Storage Requirements (m³)

1:30 year event (m ³)	154
1:200 year event (m ³)	245

Greenfield runoff

Site area (ha)	0.417
1:30 year runoff (l/s)	5.3

Storage Volume Provided (m³)

SuDS Basin 1	41
SuDS Basin 2	171
Porous Paving (Car Parks)	83
Porous Paving (Footpaths)	86
Total	381

Note: Please do not scale from this drawing