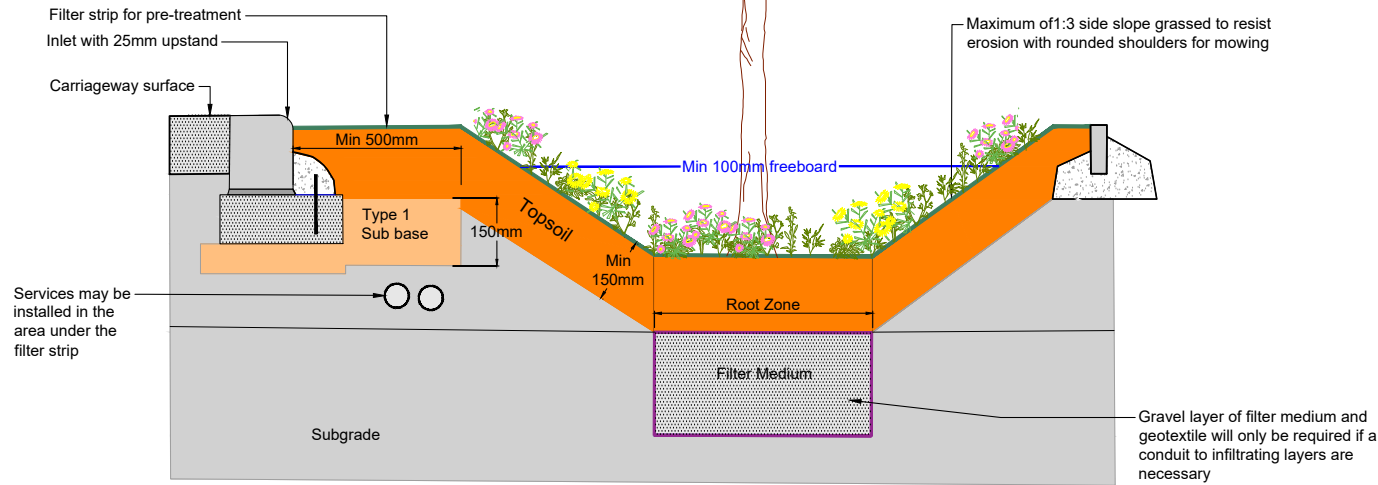


SWALES AND SURFACE WATER FLOW CONVEYANCE



Note:-The swale must be of sufficient depth to prevent carriageway run off over spilling beyond the highway boundary

DESIGN DATA	
Element	Summary Requirement
1	Base width of swale 0.5m min
2	Longitudinal bed of swale 0.5% to 6%
3	Minimum longitudinal length of swale 5m
4	"Drop from adjacent surface into swale (lateral surface flows)" 50mm to 100mm
5	Permeable geotextile filter membrane Permeable geotextile - for specification, refer to the drainage section within the specification
6	Under drainage pipe and flow capacity Perforated PVC min dia 150mm and min 2l/s/ha
7	Gravel layer surrounding perforated pipe Min 150mm thick clean gravel
8	Filter medium under dry swale Type B open graded granular material
9	Positioning of "check dams" 10m to 20m internals on slopes greater than 3%. Details to be agreed
10	Maximum groundwater level Refer to ground water volume within the specification
11	Under drains on conveyance swales On slopes <1.5%
12	Average velocity of flow 0.3m/s
13	Excess flows velocity Limited to between 1m and 3m/s
14	Root Zone 70/30 mix of sand/topsoil
15	Tree planting All trees planted within grass areas to be fitted with Strimmer Tree Guard, base of guard to be bedded into the ground. Suitable staking method for trees as per DRS Trees may be positioned on the slopes of the swales rather than the base.

Rev: AMENDMENT DETAILS Date: Description: Approved by:



Checked by: -- Approved by: --

DRAFT -/-

Infiltration / Conveyance Swale

This is a typical detail and may require conversion to a full scheme specific drawing.

NOT TO SCALE
(all units in millimetres)

Disclaimer : Before making use of this detail, any designer or third party must ensure that it satisfies all requirements of the scheme to which it is being applied. Lincolnshire County Council accept no responsibility for third party use of this Standard Detail.

SD/5/116
Standard Detail Number

Revision Number

Revision