

Sustainable Drainage Schemes (SuDS) Handbook (Change Log – June 2018)

1.6 Herefordshire Council Highways Design Guide

February 2018	Revised June 2018
Herefordshire Council have	Herefordshire Council have
published a Highways	published a Highways
Design Guide for New	Design Guide for New
Developments, which	Developments. This
includes county specific	provides standards for
standards for highway	adoptable highways or any
drainage. This provides	highway built to serve 6 or
standards for adoptable	more houses.
highways or any highway	All highway drainage
built to serve 6 or more	aspects have been included
houses.	in this handbook.

2.3 Flood Risk and Drainage Checklist

February 2018	Revised June 2018
Two Flood Risk and	A Flood Risk and Drainage
Drainage Checklists have	Checklist has been
been prepared to help guide	prepared to help guide
applicants and these are	applicants and this is
available on the	available on the
Herefordshire Council	Herefordshire Council
website .	website.

3.2 Adoption

Text added June 2018
Drains that convey surface
water from the adoptable
highway must be adopted by
a Statutory Authority. Within
Herefordshire this means
the Water Companies,
Herefordshire Highways or
Highways England.

February 2018	Revised April 2018	
Herefordshire Council will	Herefordshire Council will	
not normally consider	not normally consider	
adopting any Public Open	adopting any Public Open	
Space and alternative 'in	Space and alternative 'in	
perpuity' management	perpetuity' management	
arrangements will need to	arrangements will need to	
be made. Accordingly SuDS	be made. However,	
features adopted under the	Balancing Ponds or Basins	
Highways Act would	with bank maintenance	
normally be constructed on	strips may be adopted by	
existing highway verge.	means of a land	
	conveyance. SuDS features	
	adopted under the Highways	

Act would normally be constructed on existing	
highway verge.	

February 2018	Revised June 2018
Welsh Water will not adopt	Welsh Water will not adopt
Orifice Plates.	Orifice Plates. Flow Controls
	that restrict flow rates into
	Welsh Water sewers need
	to be adopted by Welsh
	Water.

6.9 Impact of Flood Risk from Watercourses

February 2018	Text removed April 2018	
On inclined sites it could		
prove possible to design an		
attenuation basin for a less		
acute storm such as 1 in 30		
years and to rely on the		
freeboard (norm ally		
300mm) to allow		
mobilisation of storage for a		
100 years + CC storm.		
Alternatively flooding of		
external areas during storms		
in excess of 1 in 30 years		
could be considered.		

7.4 Early development of a foul drainage strategy

Revised June 2018
Delete "Cess pits will not be
permitted" and substitute
with "The use of cess pits
will only be permitted in
exceptional circumstances
and where it can be
demonstrated that sufficient
precautionary measures will
ensure no adverse effect
upon natural drainage water
quality objectives"

7.5 The use of Package Treatment Plants

February 2018	Revised June 2018
Drainage fields serving	Drainage fields serving
Package Treatment Plants	Package Treatment Plants
should be located:-	should be located:-
- At least 10m from	- At least 10m from
any watercourse or	any watercourse or
permeable drain;	permeable drain;
 At least 7m from any 	- At least 15m from
building	any building (7m
-	from single buildings

	in accordance with
	BS 6297)

8.4 Below ground drainage systems

8.4 Below ground drainage s	ystems	Povised June 2019
February 2018		Revised June 2018
The Herefordshire Council		Highway Drainage serving
Highways Design guide		highways built to adoptable
(Section 38 adoptions)		standards (even if not
includes some approved		presented for S38 Adoption)
deviations from details in		should be designed
Sewers for Adoption. These		following the Design Manual
include the use of Silt Traps		for Roads & Bridges. This
(instead of manholes) built		specification includes some
compliant with the Design		approved deviations from
Manual for Roads &		details in Sewers for
Bridges. The minimum		Adoption, including the use
carrier pipe size is 225mm		of Silt Traps (instead of
dia. Drainage for highways		manholes). Highway
built to adoptable standards		drainage designs for
(even if not presented for		adoptable highway should
S38 Adoption) should be		feature Silt Traps.
designed following this		For developments serving 6
guidance. This guidance is		or more houses, the
therefore followed for		highway drainage shall meet
housing developments of 6		adoptable standards
or more houses.		irrespective of whether the
For developments serving 6		highway is offered for
or more houses, the		adoption.
highway drainage shall meet		Highway Drainage local
adoptable standards		design criteria
irrespective of whether the		Carrier pipes shall be
highway is offered for		minimum 225mm diameter.
adoption		However, drainage serving
		soakaways may utilise
		150mm diameter pipework.
		Pipes laid with less than
		1.2m cover should be
		provided with a Class Z
		bedding (Concrete
		Surround).
		Gully spacing shall be
		determined using the
		recommendations of HA
		102/00, Spacing of Road
		Gullies. Gullies will be
		required immediately
		upstream of pedestrian
		crossing points and road
		junctions but shall never be
		located on a crossing point.
		It is the developer's
		responsibility to demonstrate
		and ensure that the number
		and positioning of gullies is

adequate to drain the
highway.
Alignment of drains within
and alongside Adoptable
Highway
Lateral connections into
public foul or surface water
sewers shall be designed
and constructed to
adoptable standards. All
such connections shall run
at right angles to the
centreline of the road to
minimise their length.
All prospectively
maintainable highway drains
shall be located within land
that is to be adopted by the
Highway Authority. Only in
exceptional circumstances
will they be permitted in land
that is to remain private.
Where such circumstances
do arise the land owner at
the time of completing a
Section 38 Agreement will
be required to give a grant of
easement keeping 3m each
side of the pipe clear of all
obstructions, which will be
binding on successors in
title. The developer is
strongly advised not to sell
any land that will contain a
highway drain before
completion of such an
Agreement. The Highway
Authority will not accept any
different form of undertaking,
which dilutes the rights
conferred on it.

8.5 Intervention level for flow control maintenance and orifice sizes

February 2018	Revised April 2018	
Overflows located upstream	Overflows located upstream	
of flow control devices shall	of flow control devices shall	
be installed to ensure that	be installed to ensure that	
overflowing water is visible,	overflowing water is visible,	
to prompt blockage	to prompt blockage	
clearance. On small sites, a	clearance. On small sites, a	
leaking manhole cover can	leaking manhole cover can	
be used as an overflow.	be used as an overflow.	
	Highway drains do not need	

to be specified with internal	
overflows.	

February 2018	Revised April 2018	
For agricultural	For agricultural	
developments, bunded	developments, bunded	
attenuation basins featuring	attenuation basins featuring	
minimum 75mm diameter	minimum 75mm diameter	
orifice plates as flow	flow controls are in some	
controls are in some	situations considered	
situations considered	acceptable. The applicant	
acceptable. The applicant	needs to demonstrate use of	
needs to demonstrate use of	a shallow bunded system to	
a shallow bunded system to	facilitate a low discharge	
facilitate a low discharge	rate and contrast this with	
rate and contrast this with	the Greenfield discharge	
the Greenfield discharge	rate. A perforated pipe can	
rate. A perforated pipe can	be installed vertically to	
be installed vertically to	allow drain down in the	
allow drain down in the	event of a blockage,	
event of a blockage,	facilitating subsequent	
facilitating subsequent	clearance by operatives.	
clearance by operatives.		

8.12 Soakaways

February 2018	Revised June 2018
The presence of a	The presence of a
soakaway below or	soakaway below or
immediately adjacent to a	immediately adjacent to a
highway will prevent future	carriageway will prevent
adoption of the highway	future adoption of the
under Section 38.	highway under Section 38.
Soakaways are not	Soakaways are not
permitted below highways	permitted below
serving 6 or more houses.	carriageways serving 6 or
	more houses

8.14 Designing to facilitate Maintenance

Text added June 2018
Herefordshire Highways
encourage applicants to
consider how safe cleansing
of highway drains will be
performed. This issue is
particularly significant where
Kerb Drainage Systems
(e.g. Beany Blocks) feature
on lengths of highway
presented for S38 adoption.