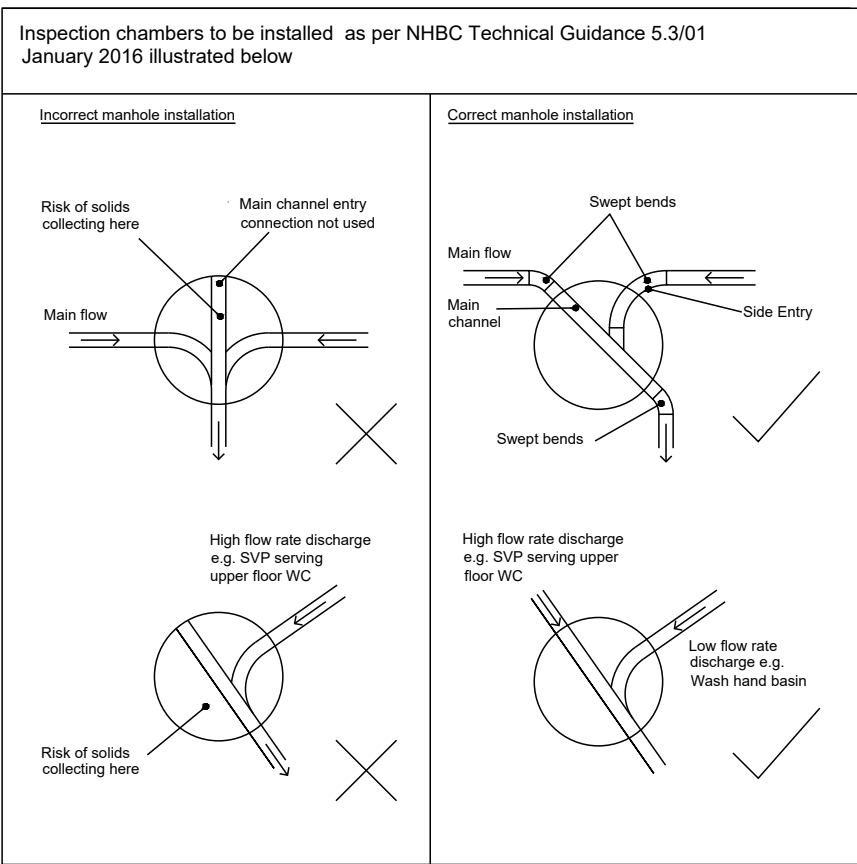




- KEY**
- Internal Drainage connection
 - 320/450mm dia inspection Chamber
 - Private Foul Water Sewer (FW) & Chamber
 - Private Surface Water Sewer (SW) & Chamber
 - Private SW Rodding Eye
 - Private SW Down Pipe & connection
 - Private SW Down Pipe from garage & connection into porous stone via distribution box
 - Linear Drainage Channel
 - Adaptable Foul Sewer & Manhole

- Private Drainage General Principles**
- The minimum size for a gravity foul sewer should be:
 - 150mm nominal internal diameter for two properties or less
 - 150mm nominal internal diameter for more than two properties
 - The minimum gradient is for foul 1:80 and for surface water 1:100. Steeper gradients are preferred for access to boundary chambers.
 - SWPVC to be placed on main run through chamber with access, sinks etc to be on downpipes or on PVC up/down pipes below.
 - Where drainage passes through an area or into a foundation wall, the pipework should be as close as possible to the wall in order that the pipe is well supported.
 - All inspection chambers to be 750mm to centre from the outer face of the external wall to ensure they are covered within paving with recessed porous cover to suit. If required.
 - Inspection chambers should where possible be designed in line.
 - Bends to be used as part of a run if within 150mm of wall. This should be a double socket bend.
 - Bends should be no more than 2m between access chamber and bend as per NHBC Technical Guidance Document 5.301, See Diagram 5.301.
 - Chamber cover and frames must be covered to the full depth.
 - Where house type includes porches, chamber to be located 750mm to centre from outer face of front wall to ensure it is well within paving area.
 - Chamber must not sit on roof or ground area, therefore adjustments on site may be required.
 - Drainage out to road to be 750mm to centre from wall to ensure they are covered within paving/road with recessed porous cover to suit, unless specifically marked.
 - If inspection chambers are deeper than 600mm, a 450mm diameter inspection chamber is required.



Porous Paving Catchment and Subbase thicknesses in Drives					
Drive Area (m2)	Building Added (m2)	Total (Ha)	Max Water depth (m)	Depth of Stone	
			100year+40%+6%	Min 0.3m as 4%CBR	
Plot 1	65	44	0.011	0.271	0.300
Plot 2	100	44	0.014	0.185	0.300
Plot 3	62	44	0.011	0.284	0.300
Plot 4	45	0	0.005	0.147	0.300
Plot 5	95	44	0.014	0.271	0.300
Plot 6	102	44	0.015	0.323	0.325
Plot 7	96	44	0.014	0.259	0.300
Plot 8	72	44	0.012	0.230	0.300