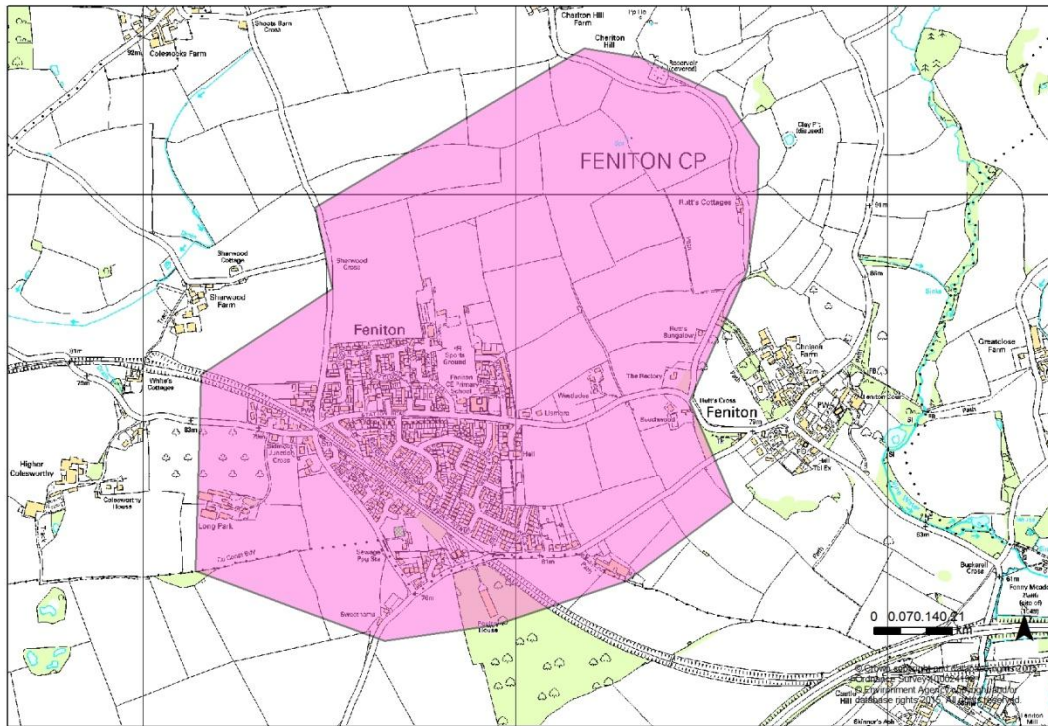


Critical Drainage Area (CDA)

East Devon DC - New Feniton

May 2015



Catchment Drainage/Flooding Issues

“New” Feniton is a residential settlement that has been developed since the 1960’s on former agricultural land upslope of the Exeter to Waterloo railway. Approximately 1sq km of sandy steep heavily cultivated agricultural land drains through the settlement to the railway which runs on an embankment. The inadequacy of the receiving drainage system and railway culvert to accommodate muddy runoff from the surrounding agricultural land has given rise to repeated flooding of the settlement. The worst recorded event was on 31st October 2008 when over 50 properties were flooded to depths up to 1m. Whenever new development is to be permitted in the catchment it should; a) be served by a sustainable drainage system that performs in accordance with the criteria set out below and b) should also make a contribution towards a scheme that will reduce risks for those liable to flood.

Minimum Drainage Standards Required

All new development will have to play their part in reducing current rainfall runoff rates. This requirement also applies to brown field sites that will have to match the same standards. The SuDS hierarchy should be followed, by using infiltration as far as is practicable. Further guidance on such systems can be found in the CIRIA SUDS manual and in LLFA guidance.

All off-site surface water discharges from development should mimic “Greenfield” performance up to a maximum 1 in 10 year discharge rate. On-site all surface water should be safely managed up to the “1 in 100+climate change” conditions. This will require additional water storage areas to be created thereby contributing to a reduction in flooding downstream.