Alders End Farm, Tarrington, Herefordshire HR1 4ET

Foul & Surface Drainage Layout (8th November 2023)

COACH HOUSE

FARMHOUSE

GRANARIES & CART BARN

Habitable building

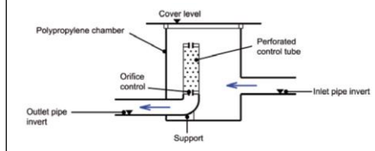
Storage / other building

The attenuation pond will be excavated and unlined. The attenuation pond will be 1.2m deep with sloping sides (approximately 1:3)

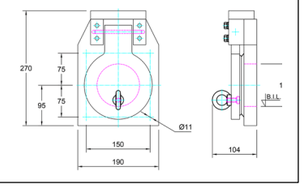
The base area of the new attenuation pond will be at least 12m x 12m, giving a minimum capacity of 200m^3. The outfall drain will be set to give 120m^3 of attenuation freeboard.

The pond will not be square but will be excavated and shaped during construction.

Attenuated discharge will be managed to no more than 2-litres/second by means of a 75mm diameter orifice control chamber.



The discharge points to local watercourse will be protected with dry stone headwalls and will include a vermin-proof flap valve.



Permanent Watercourse

Surface Water drainage to be laid is 110mm diameter uPVC pipework in line with Building Regulations Part H (Blue)

Foul drainage to be laid is 110mm diameter uPVC pipework in line with Building Regulations Part H (Red)

Connection for new underdrain

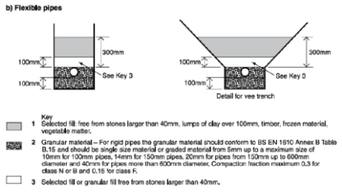
Treated foul effluent drain to be laid at 1:200 alongside surface water drain

Connection for new underdrain

All underground pipework will be 110mm uPVC and should comply with BSEN1401.

All foul drains should be laid at a gradient no steeper than 1:40

Surface water & Treated effluent drains should be laid at 1:200



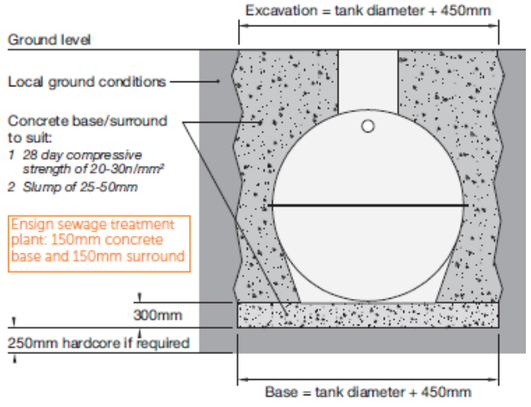
All domestic inspection chambers within the development will be pre-formed uPVC and should comply with BSEN7158.

N

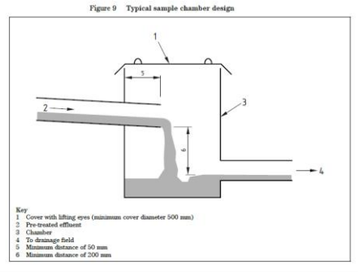
0 10m

Haba Easy-Flow 5-15 packaged sewage treatment plant. To be installed to Manufacturer's guidelines and assuming wet site conditions.

Plan size: 2.9m x 1.8m



Sample chamber immediately downstream of packaged sewage treatment plant.



All new hardstanding areas will be constructed as permeable hardstandings with an under drain and infiltration reservoir.