John N. Pickup RIBA CDA ARB Red Cottage Stubbing Square Hebden Bridge West Yorkshire HX7 6LS MB: 07867 987603 Email: john@3deco.co.uk





Planning Application Submission:

Additional Drainage Details for Barns:

A and C (App Ref:P193616F)

and

B and D (App Ref: P193520F)

Grove Farm, Sellack, Ross on Wye, Herefordshire HR9 6LZ

### **Project Name:**

Grove Farm

#### **Project**

Grove Farm, Sellack, Ross on Wye, Herefordshire HR9 6LZ

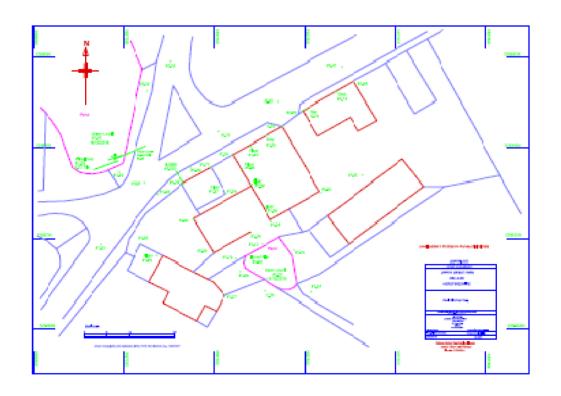
Change of Use of barns to form new residential dwellings.

Additional information requested in relation to the sites potential for flooding.

### Information provided:

- Drawing 19005/31 Detailed site / drainage survey undertaken by Jonathan Tasker Land Surveyor.
- Drawing 19005/19 Drainage Plan (Barns B and D)
- Drawing 19005/30 Drainage Plan (Barns A and C)
- Percolation Test Results and supporting photographs

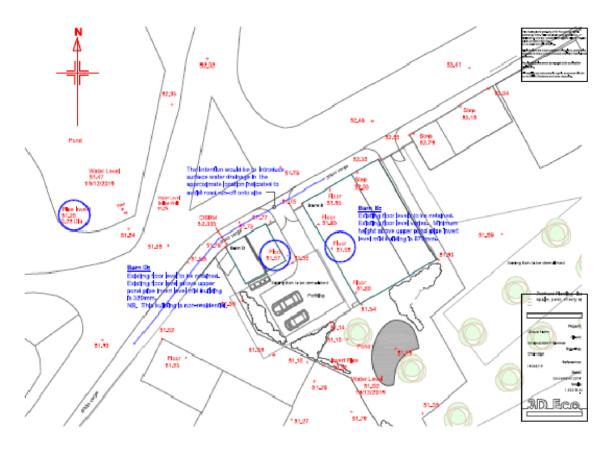
### Drawing 19005/31:



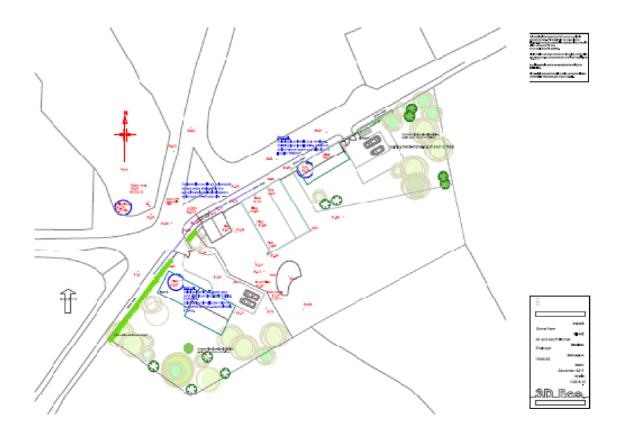




Drawing 19005/19 - Drainage Plan (Barns B and D)



Drawing 19005/30 - Drainage Plan (Barns A and C)



eloffcequides's

# **Percolation Test Recording Sheet**

- These tests should be carried out within and be representative of, the proposed infitration area which should be at least 5m from the intended building and any boundary.
- Excavate 2 percolation holes, not less than 5m apart, 300mm square to a
  depth of 300mm below the proposed invert level of the effluent distribution
  at the bottom but may be enlarged above the 300mm level to enable safe
  excavation to be carried out.
- Fill the 300mm square section of the holes to a depth of at least 300mm with water and allow it to seep away overnight. It is important to saturate the soil surrounding the test hole to simulate day to day conditions in an operational
- Next day, refill the test sections with water to a depth of at least 300mm and observe the time (T) in seconds, for the water to seep away from 75% to 25%
- Extreme weather conditions should be avoided when testing.

 In evaluating your test results please note that where the Vp value does not fall between 15 secs/mm and 100secs/mm then infiltration trench or bed systems may not be possible.

| Trial<br>Hole | Depth<br>below<br>ground<br>level    | Depth of<br>Water<br>(minimum<br>300mm) | Time taken<br>between<br>75% & 25%<br>full(seconds)<br>(T) | Percolation<br>Value<br>Vp=T/150<br>(Vp) | Occupant<br>Capacity<br>(P) | Minimum<br>Area<br>A=P x Vp<br>x 0.25<br>(A) |
|---------------|--------------------------------------|---|--|--|-----------------------------|--|
| 1             | (Test 11400                          |   | 5700   | 38                                       | -                           | and the same                                 |
|               | (Test2) 400                          | 350 .                                   | 6000   | 40                                       | -                           |  |
|               | (Test3) 400                          | 350                                     | 6800   | 45-33                                    | _                           |  |
| 2             | (Test 1) (4-20                       | 400                                     | 6(00   | 40-67                                    | _                           | _  |
|               | (Test 2) 4.20                        | 400 11                                  | 6300   | 42                                       | -                           |  |
|               | THE RESERVE OF THE PERSONS ASSESSED. | 400 11                                  | 6900   | 46                                       | -                           | 1000   |
| - 1           |                                      |   | Average Vp 4   | 12                                       | Average A                   | - ma   |

NB For wastewater that has received secondary treatment followed by settlement, the area may be reduced by 20% i.e. A = P x Vp x 0.2

Site Location: Barrus @ UMSIL Grave Common - Screek Description of ground strata: OLD Quit Sametows

Warrant Ref. Number if known: Date test carried out: 1174 1274 Dec 19

Name of person carrying out the test: MARK HINES.

The water table is more than 1m below the bottom of the distribution pipes and I further confirm that there are no wells, springs or water abstraction points within 100m of the proposed infiltration area.

Date: 12 12 19

# Percolation Test Photographs





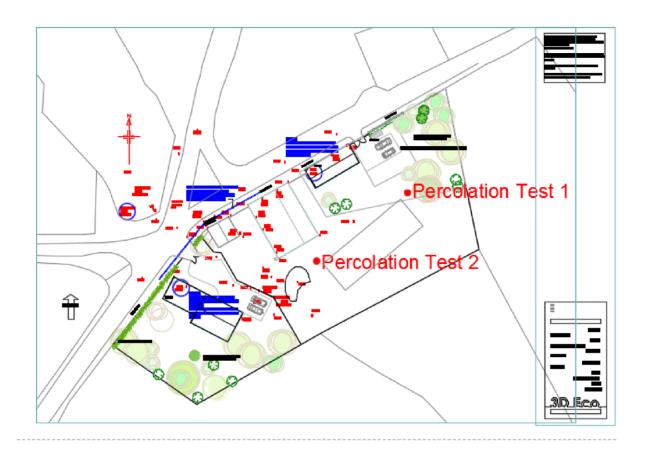








### **Percolation Test Locations**



## John N. Pickup

Registered Architect and RIBA Client Design Advisor

January 2020