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Fwd: Cluster System Design



To Mike Lingley 5 more... on 2022-01-22 15:42

Details

cluster dev HHE-200.jpeg (~646 KB)

In addition to the proposed amendment language, Ralph forwarded this information regarding cluster subsurface waste water systems.

Steve

----- Original Message -----

Subject: Fwd: Cluster System Design

Date: 2022-01-22 15:25

From: Steve Hart <wsh9171@gmail.com>

To: Steve Hart <planningboard@townoflongisland.us>

----- Forwarded message -----

From: Ralph F. Sweet <rfsweet@aol.com>

Date: Wed, Jan 19, 2022 at 7:24 PM

Subject: Cluster System Design

To: wsh9171@gmail.com <wsh9171@gmail.com>

Hi Steve: I was so discombobulated by Mark's performance at the Public Hearing last night that I didn't include the attached page from HHE-200 Site Evaluation, Cluster Systems, Page 96 in the e-mail regarding my proposed revision to the Long Island Ordinance revision of Paragraph R Cluster Development. So, now that I am recombobulated, here is a copy of the page for what it's worth at this late date.

I hope you can attend the Ground Water Quality Committee's Zoom meeting at 9:00AM on Saturday 01/22/2022. It will be a unique opportunity to ask questions and get answers from a qualified professional Geologist very familiar with Long Island and the water quality situation we have. The zoom invitation is on the LI Website. If you want to call the Geologist yourself, I'll give you her phone number.

Be well,

Ralph --

Steve Hart

CLUSTER SYSTEMS:

A cluster system is a subsurface wastewater disposal system that receives wastewater from two or more structures. A cluster system may have a private sewer collection system flowing into a large septic tank to treat the total flow or it may have building drains flowing into individual smaller septic tanks. The wastewater, after receiving primary treatment in the septic tank or tanks, may be pumped or gravity fed to a single subsurface disposal field or several fields on a common land area. (Figure 65.)

The cluster system is a concept that is proposed when the design can make for intelligent land use. However, cluster system proposals have occasionally met with local opposition in many communities; perhaps due to its increased complexity.

The engineering and technical design of cluster systems are well established. Generally, a cluster system is proposed for developing a parcel of land when a segment of the land area within that parcel is better suited for subsurface disposal than the remaining portions. Often times, shallow to bedrock or seasonal high ground water table conditions prevail on the property. Therefore, the design of the sewer collection system should address either potential ground water infiltration, freeze up, or both. Septic tank, pumps, disposal area and other components must be designed and sized to properly treat and dispose of the wastewater.

No community system, regardless of size, should be approved by Health Engineering, the Local Plumbing Inspector, or Planning Boards until the applicant provides a legal agreement specifying ownership, maintenance procedures, group costs, and replacement responsibility if necessary. A proposed cluster disposal system, that is not intended to be installed all at once, may present practical construction problems in the future. Any proposed modular approach to cluster system construction should address practical concerns such as: when is the system going to be installed, how is the system going to be expanded, how and where is the wastewater going to be redirected during construction, and how is the area to be dried out during construction.

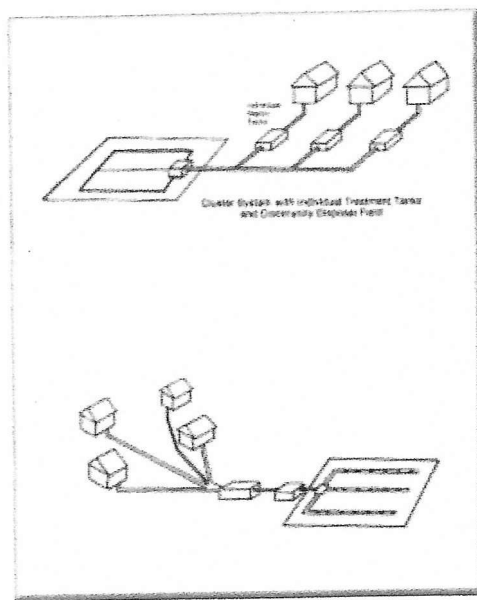


Figure 65. Cluster Systems