





Bureau of Environmental Health

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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: Old Frederick Road

Subdivision: Lally Property Lot: 41 west

Initial system: Application rate: 1.2 Effective area beginning depth: 3'5" Bottom maximum depth: 7'(4,2)
1st Replacement: Application rate: 1.2 Effective area beginning depth: 3'5" Bottom maximum depth: 8'(3)
2nd Replacement: Application rate: 1.2 Effective area beginning depth: 4' Bottom maximum depth: 7.5(1,5)

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
All trenches must be on contour
Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
Maximum trench length is 100'
Maximum pipe depth is 4'

Additional requirements:

Approved: Hank Oswald Date: 7/19/21