



Sewage Systems Loading Rate Areas

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City of Kawartha Lakes



Ontario Building Code

- 8.7.4.1 - Loading Requirements

- The area described in Sentence 8.7.4.2(1) shall be designed such that the loading rate does not exceed, for soil having a percolation time set out in Column 1 of Table 8.7.4.1., the maximum value set out opposite it in Column 2

Column 1	Column 2
Percolation Time (T) of Soil, min	Loading Rates (L/m ²)/day
1<T≤20	10
20<T≤35	8
35<T≤50	6
T>50	4

Ontario Building Code Cont'd

- 8.7.4.2.(1) – Construction Requirements
 - A leaching bed may be constructed in leaching bed fill, if unsaturated soil or leaching bed fill extends,
 - To depth of at least 250mm over the area covered by the leaching bed fill;
 - And for at least 15 m beyond the outer distribution pipes in any direction in which the effluent entering the soil or leaching bed fill will move horizontally.



Loading Rate



- The area combines the infiltrative loading rate and the hydraulic linear loading area.
- The size of this area is determined through a calculation that takes into consideration the native receiving soil characteristics (percolation rate) and the total daily sewage flow.
- Ultimately, a determination must be made to establish the rate that effluent can be loaded on the ground for adequate treatment while still allowing the passive horizontal movement of the liquid without causing any build-up in the leaching bed area.



28/06/2007



28/06/2007

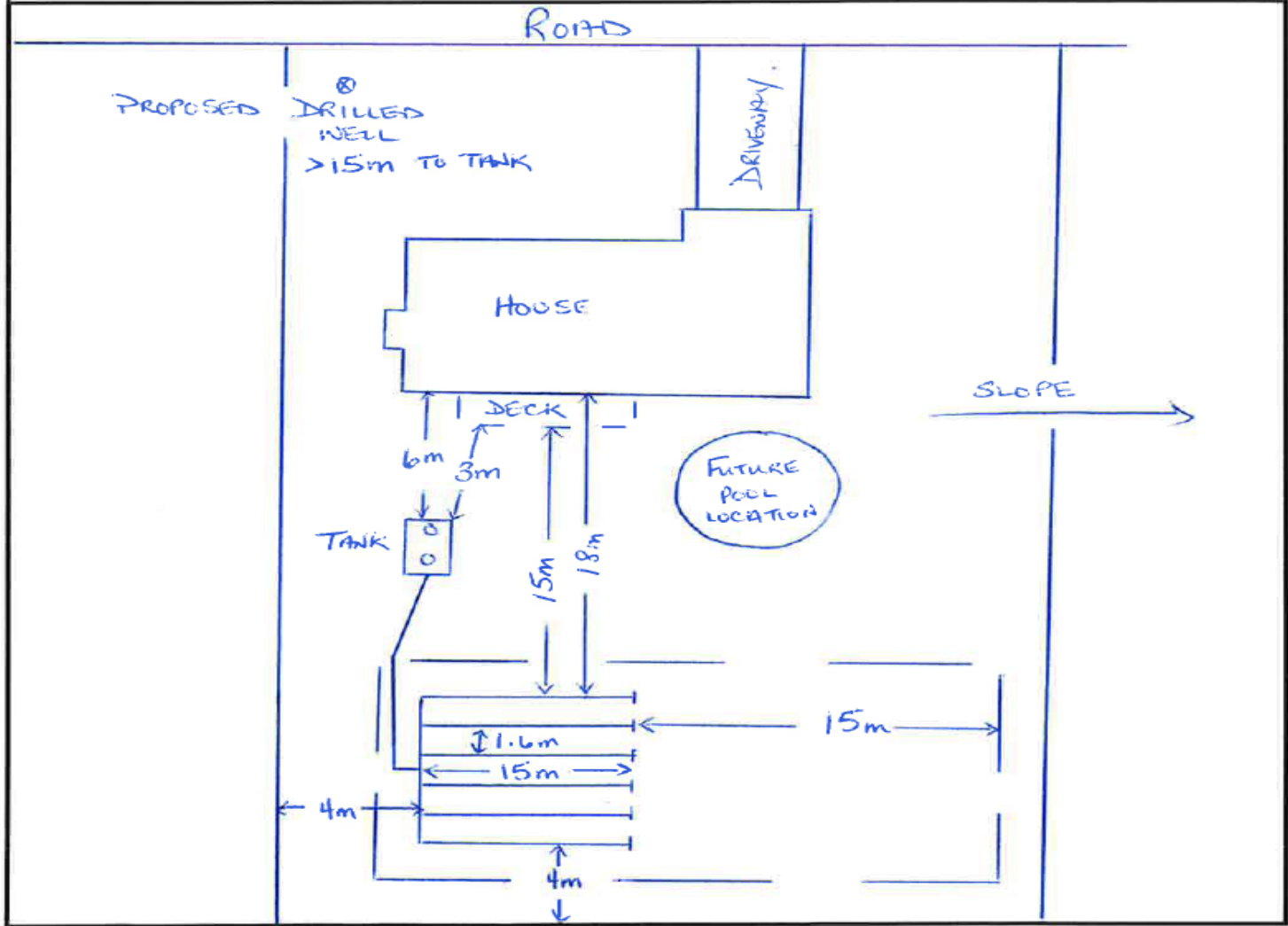


22/09/2008

Lot Diagram

Indicate North and show the following required information with proposed or existing setbacks where necessary:

- Sewage System Components (tank, bed, etc)
- Existing Sewage Systems
- Structures (Proposed or Existing, incl. pools)
- Property Lines
- Topographical Features (steep slope, swamp)
- Water Supplies (incl. neighbours) and other water features (lakes, streams, rivers, etc)
- Loading Rate Area
- 15 metre Mantle Area
- Driveways
- Direction of Slope



Note: Loading rate areas and mantles are to be free of structures.

JOHN DOE
Owner/Installer/Designer

John Doe
Signature

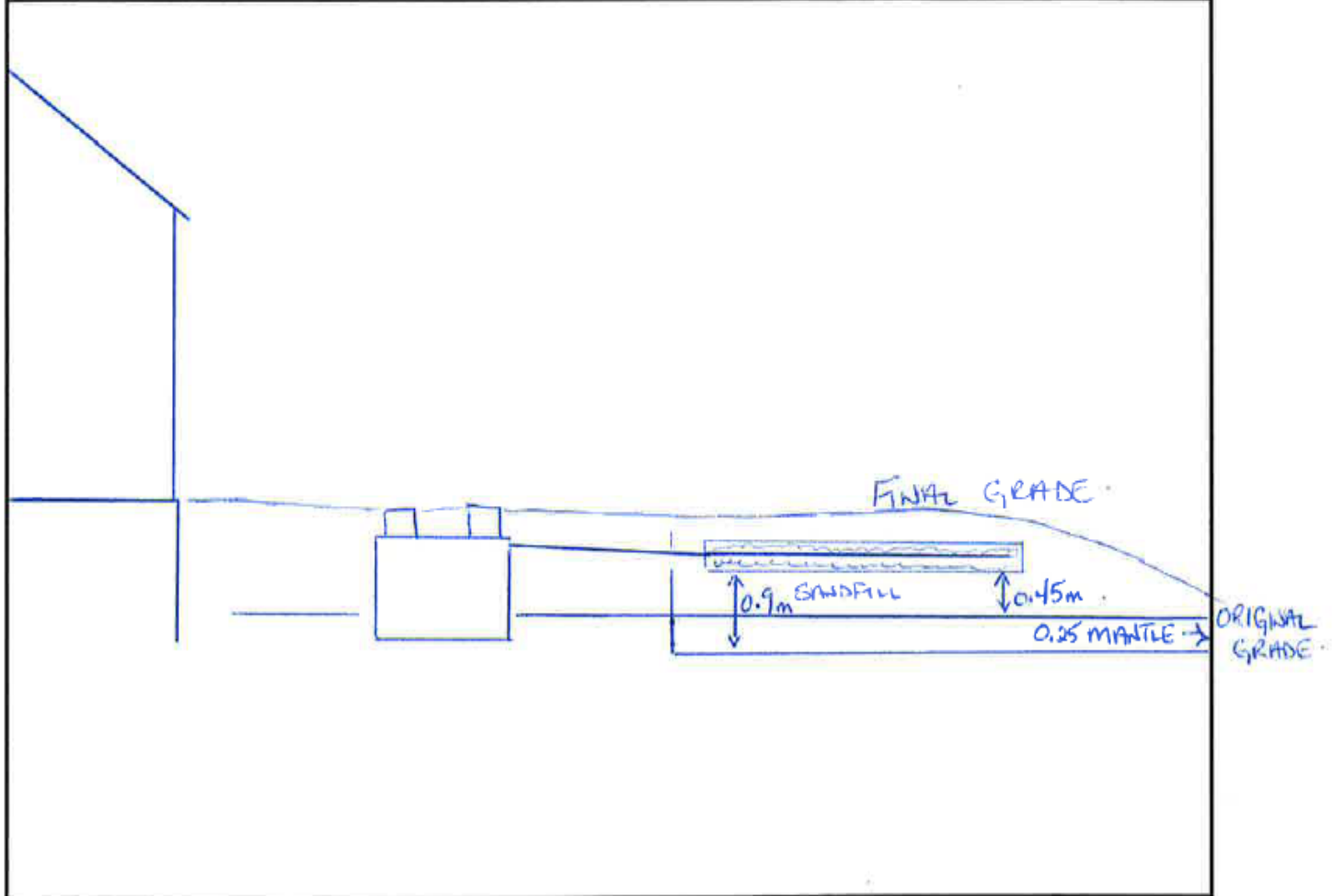
March 9, 2016
Date



Side View Diagram: (If Sewage System is Raised or Site is Sloped)

Indicate the following required information

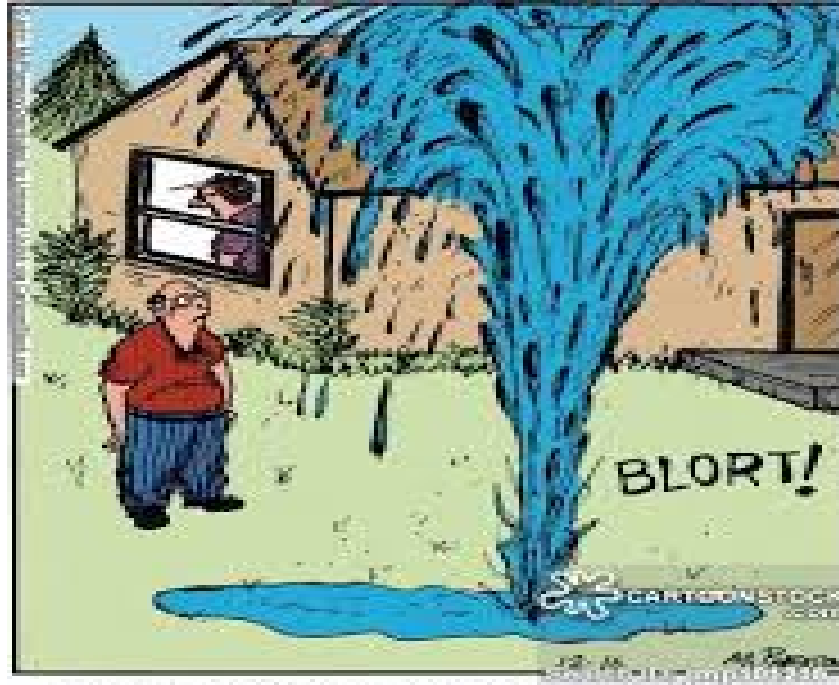
- Original Grade
- Finished Grade
- Height Above Impervious Soil, Water Table, or Bedrock
- Profile of the Materials that make up the Septic Bed and Load Rate Area (fill, filter sand, filter sand contact area, 15 m extended sand loading rate area, pipe, stone)



Constructed Loading Rate Areas



???Questions???



"Rick, I think something is wrong with the septic system. The toilet is flushing kind of slowly."

Thank-you