

# SeptiCAD Preferences

Toolbar	Pref
Command Line	sUser

Site Evaluator Information  
Appears on HHE-200 Form  
Alternate Designers can be used

SeptiCAD License Registration  
User Name and Serial Code  
to UNLOCK SeptiCAD

Customize  
SeptiCAD  
Libraries

Miscellaneous  
options for  
SeptiCAD

Settings for  
Fill Volume  
Calculation  
[See Note 3]

The screenshot shows the 'SeptiCAD --- Preferences' dialog box. It contains the following sections and fields:

- Designer Information:** Site Evaluator Name (Stephen B. Marcotte), LSE # (387), Email Address (stephen.marcotte@gmail.com), Phone No. ((207) 939-2600), Default User (Stephen B. Marcotte), Alternate (Alternate1, Alternate2), SE# (email, email), phone (phone, phone).
- SeptiCAD Information:** User Name --> (Stephen Beck Marcotte), Serial Code --> (Y2132357415Q).
- Customize SeptiCAD Libraries:** Map Labels Library, Map Notes Library, Block Library, System Customization.
- Customize SeptiCAD:** Default System for Main Design Window (Eljen GSF Geotextile Sand Filter), Existing Grade Elevation Display (Existing Grade Elevations on Corners), Miscellaneous Options (Label Cross-Section on Page 3, Draw Shoulders on Page 3 Plan, Display Elevation Table on Level Systems, Display Fill Volumes On Cross Section, Display Page 3 Cross Section Note in Top Left Corner, Draw Stormwater Diversion Swale on Page 3 Plan by Default, Prompt for Automatically Adding Transitional Horizon on Design (Experimental), Prompt for Swing Ties on Continue Design, Prompt for Septic Tank Outlet Elevation Calculator On Continue Design, Change All Printed Text to CAPITALS after Design and Continue Design).
- HHE-200 Form Text Height [Actual]:** HHE-200 Page 1 - Text Height (0.13), Prop. Loc., Owner/App'l Info, S.E. Statement --> (0.1), Permit Information and Design Details --> (0.08), Latitude/Longitude --> (0.08), HHE-200 Page 2/3 - Text Height (0.1), Header, fills, elevations, etc. --> (0.1), Soil Log [descriptions only] --> (0.08).
- Model Space Output [Scaled]:** Label Text Size --> (1), Label Arrowhead Size --> (1.5), Page 2/3 Plan Note Text --> (0.8), SeptiCAD Label Library Options (Text Size in Paperspace (0.08), Arrowhead Size in Paperspace (0.15)).
- Disposal Field Above-grade Fill Volume Calculations:** Correction Factor to Base Volume Calculation and Fill Compaction Correction Factors (Correction Factor --> (1.05), Sand Compaction Factor --> (1.15), Loam Compaction Factor --> (1.2)).

Adjust text height  
on HHE-200 Form  
[See Note 1]

Adjust text and  
arrowhead sizes  
in MODEL space  
[See Note 2]

Adjust Map Label Library  
Paper Space Label Size  
[Actual Text/Arrow Sizes]

## NOTES

- (1) Text Height on HHE-200 Form: Since the height : width ratio changes for different font types, the text heights (sizes) may be need to be modified. Changes will be made to all subsequent designs.

Changing the Design Font: First try out fonts, by opening an existing design and modify the Font for the SEPTICAD Text Style using the CAD menus. To apply a new font for all new designs, the user must open a blank SeptiCAD Template.DWG file and modify the SEPTICAD Text Style for the C:\SeptiCADv5\SeptiCAD-Template.DWG. SAVE the updated template file, and make the file read only. For a more detail description see the Frequently Asked Questions (FAQ) in the Help File.

Note #2 & 3 on Next Page

## SeptiCAD Preferences (cont)

- (2) The Text Height of Labels and Notes for the Page 2 Map, Page 3 Map and Cross Section are determined based on their respective scales and the scales (multipliers) in this menu [e.g. text height = (scale \* multiplier)/10].

EXAMPLE: If the Page 2 Map scale is 1"=60' and the Page 2/3 Map Label Text multiplier is 1.1 then the actual text size for a Label on the Page 2 Map will be =  $60/10 * 1.1$  -OR- 6.6.

The multipliers for Arrowhead Length AND Notes Text Height are applied to the modified text height

for Page 2 & 3 Maps and Cross Section.

EXAMPLE: If text height = 6.6 and Arrowhead Length multiplier = 1.5, then the actual arrowhead length will be =  $6.6 * 1.5$  -OR- 9.9.

*These scales affect all SeptiCAD tools*

- (3) The total **above grade** volume of fill is calculated using the End Area Method. The total volume of fill is then multiplied by a user defined "fudge factor". The volume of a 4" loam layer is calculated for the area of the 3 dimensional fill extension. Then the:

total volume of sand = total volume of fill - volume of loam.

Compaction factors are then applied to the sand and loam volumes separately (a compaction factor of 1.15 = 15% compaction). *The volume of the disposal field components (e.g. stone, chambers, etc.) is not subtracted from total fill volume.*

Diagram on right depicts the 9 fill volumes calculated with the End Area Method. Volumes DOWN, UP and BODY are calculated using cross sections A-A' and B-B'. Volumes RIGHT and LEFT are calculated using cross sections C-C' and D-D'.

Since there are two possible ways to calculate the 4 corner fill volumes \*, both volumes are calculated and the larger of the two volumes is used. Volumes are calculate from a 1/2 area.

