

# SeptiCAD Preferences

Toolbar	Pref
Command Line	user

The screenshot shows the SeptiCAD Preferences dialog box with the following sections and callouts:

- Designer Information:** Full Name (Stephen Marcotte), Site Evaluator # (387), Email Address (septicaid@gmail.com), Phone # (797-2110).
- SeptiCAD Information:** User Name (Steve), Serial Code (Y47093208V).
- Customize SeptiCAD Libraries:** Map Labels Library, Map Notes Library, Block Library, Cross Section Notes.
- Row Separation Input/Output:** Input Row Spacing (Edge to Edge), Label on Cross Section (Both).
- 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 (0.1), HHE-200 Page 2/3 - Text Height (0.1), Header, fills, elevations, etc. (0.05), Soil Log [descriptions only] (0.05).
- 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).
- Miscellaneous Options:** Label Cross-Section on Page 3 (checked), Draw Shoulders on Page 3 Plan (checked), Elevation Table on Level Systems (checked).
- Page 2 Plan Notes:** Ask for Page 2 Plan Notes (checked), Bottom Left, Width % of Page (35).
- Page 3 Plan Notes:** Ask for Page 3 Plan Notes (checked), Bottom Left, Width % of Page (60).
- Disposal Field Above-grade Fill Volume Calculations:** Correction Factor to Base Volume Calculation and Fill Compaction Correction Factors (1.05), Sand Compaction Factor (1.15), Loam Compaction Factor (1.2).

Callouts and their corresponding fields:

- Site Evaluator Information Appears on HHH-200 Form:** Points to the Site Evaluator # field.
- SeptiCAD License Registration User Name and Serial Code to UNLOCK SeptiCAD:** Points to the User Name and Serial Code fields.
- Customize SeptiCAD Libraries:** Points to the Map Labels Library, Map Notes Library, Block Library, and Cross Section Notes fields.
- Miscellaneous options for SeptiCAD:** Points to the Miscellaneous Options section.
- Settings for Fill Volume Calculation [See Note 3]:** Points to the Correction Factor to Base Volume Calculation and Fill Compaction Correction Factors, Sand Compaction Factor, and Loam Compaction Factor fields.
- Adjust text height on HHE-200 Form [See Note 1]:** Points to the HHE-200 Form Text Height [Actual] section.
- Adjust text and arrowhead sizes in MODEL space [See Note 2]:** Points to the Model Space Output [Scaled] section.
- Adjust Map Label Library Paper Space Label Size [Actual Text/Arrow Sizes]:** Points to the SeptiCAD Label Library Options section.

## 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:\SeptiCAD\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.

