We are now ready to update the grading quantities for our design.

Step 63: Switch to 3D View mode (Ref Surface should be Subgrade and Diff Surface should be Existing), click the Volume Area toolbar button, and click the Calc Volume toolbar button.

With 7,649 BCY of cut and 4,172 CCY of fill, our volumes are not as closely balanced as before. However, adjusting the AGTEK numbers for topsoil stripping (4” would reduce the cut by 1,516 BCY and increase the fill by 1,005 CCY) and for a cut-to-fill shrinkage of 15% indicates that we are within 180 BCY of a balanced site design (excluding the stripped topsoil). If desired, we could adjust the lot pad grades a little to compensate for the difference (see the “Balancing Onsite Cut and Fill” exercise in the Day 3 Seminar Handbook).

Step 64: If desired, contour the Design surface. Switch to Edit mode, set the surface to Design, and select Utility > Contour Surface from the menu. Enter Interval value (“2” feet in this case) in the Edit Contour Interval dialog, and click OK. [Checking the Apply Smoothing option will produce rounded contour bends rather than the default angular bends.]

Step 65: Generate any printed documentation that you require (see Appendix E in the Day 1 Seminar Handbook), or export your line work and surface data to a layered CAD file for use by any CAD system (see Appendix D of this Day 2 Seminar Handbook).