Digital Canal Corporation

Solution Papers

Summary: ***Creating Decks***

Overview: Decks are created using two floors. The bottom floor consists of the joists and rim boards. The second floor is created on top of the first and consists of the deck boards. This paper will step you through on how to setup your options to create a deck in SolidBuilder™.

Solution:

- **Select Build → Floor.**
- **Select Framed and Freeform from the Floor drop list.**
- **Click on the Options icon.**
- **Set the joist Thickness to** `1.5″` **and the joist Width to** `9.25`**" (for 2x10's).**
- **Set the center-to-center distance to** `16″` **or** `24″`**.**
- **Match Elevation to Top and set the Sheathing thickness to** `0″`**.**
- **Draw the first floor for the deck and set the joist direction.**
- **Select Framed and Outline from the Floor drop lists.**
- **Click on the Options icon.**
- **Set the joist Thickness to** `5.5″` **and the Joist Width to** `1.125`**" (for 1 ¼" x 5 ½" deck boards laid flat).**
- **Set the Center-to-Center distance to** `5.75″` **if you want a ¼" gap between the boards, otherwise to** `5.5″`**.**
- **Match the Elevation to Bottom and set the Sheathing thickness to** `0″`**.**
- **Select Material Option if you want the deck to be made from another material such as cedar or treated.**

The Material Option must be set up previously, as well as the items added to the database for anything other than untreated dimensional lumber.

- **Click on the Settings button and set the Number of rim joists to 0.**
- **Click on the Elevation icon and match the second floor to the top of the first floor.**
- **Create the second floor by the using the outline from the first floor created. Set the joist direction perpendicular to the first floor or at an angle if you choose. If angled, press the Up arrow on keyboard and click two points at any length to define the angle.**

The deck is now created. Now you just need to frame the two floors to see deck boards and joists. To create railings on the deck, you can draw walls and treat the spindles as your studs. So when you frame the wall you will see the actual railing. Or you can insert Furnishing symbols. There is some Deck railing symbols in the Outdoors library. Once the symbols are inserted, you can use the Shape command to adjust them. You can refer to the solution paper on "*Stair Railings*" for more detailed information.