

(40 pts) Approx. 3 days

This unit is all about finishing up some of the details and utility-specific systems in our Habitat for Humanity house. This part of the unit will start with a focus on different kinds of foundations used in residential design, as well as the creation of a foundation on your own Habitat for Humanity House. After that, you'll turn your attention to furniture and components related to the electrical system. This means that you'll get to plan and add wall outlets, light fixtures, and switches to your design.



1. Start by watching the two presentations *Residential Foundations* and *Foundations in Revit*. Take a full page of notes on these ideas, and be sure to add to those notes as you keep designing and building in Revit.
2. Next, use the information provided to add a concrete footer and concrete pad to your Habitat for Humanity House.
3. Return to the class website and watch the videos *Planning for Electrical* and *Electrical in Revit*. Take another page of notes on these ideas, including information about the different components available in Revit for various electrical fixtures. Also make sure you learn how to make annotations on your floorplan to represent the wiring in the house.
4. Now, add furniture and fixtures to your design to meet the electrical needs of the home. Make sure that you add at least the following components (likely in the following order):
 - a. Wall outlets
 - b. Wall-mounted light fixtures
 - c. Ceiling-mounted light fixtures
 - d. Lamps & any corresponding tables
 - e. TVs, refrigerators, or any other electrical devices
 - f. Finally, all the wiring for the house as a proper annotation

Part 1: Tasks	5 points	4-3 points	2-1-0 points
Foundation Notes	+ You took a full page of notes on the ideas presented in the <i>Residential Foundations</i> and <i>Foundations in Revit</i>	- Your notes are less than a page or missing important information	- Your notes are severely lacking
	15-10 points	9-5 points	4-0 points
Affordable Home Foundation	+ You added a concrete footer to your Habitat for Humanity house + Your footer matches the parameters	- Your footer does not match the parameters from the video	- Your footer is missing
	5 points	4-3 points	2-1-0 points
Electrical Notes	+ You took a full page of notes on the ideas presented in the <i>Planning for Electrical</i> and <i>Electrical in Revit</i>	- Your notes are less than a page or missing important information	- Your notes are severely lacking
	15-10 points	9-5 points	4-0 points
Affordable Home Electrical	+ You added all the appropriate electrical fixtures to your home + You annotated all the wiring needed in your home	- Your wiring is incomplete	- Your wiring is missing

