







(50 pts) Approx. 3 days

The final part of our unit wraps up the Habitat for Humanity design project by looking at wastewater and stormwater drainage before making some nice renderings of your home to display in a poster. The first thing you'll need to do is take some notes on wastewater before completing the *Wastewater Assignment* and adding wastewater (sewer) lines to your Habitat for Humanity home. Next, you'll look at stormwater runoff; you'll complete the *Stormwater Runoff Assignment* before calculating the runoff for your own residential design. To show off your hard work, you'll finish the project by making some nice renderings of your home and completing a poster of your design for display.

1. Start by watching the *Wastewater* presentation and taking a page of notes on the ideas. In particular, make sure you get some clear notes on how to calculate the slope of a home's wastewater sewer line.
2. Next, get the *Wastewater Assignment* and complete it. Make sure to record your work and calculations in your engineering notebook.
3. Take some time to return to your Revit design and annotate the wastewater sewer line on your site plan. This annotation doesn't need to be perfect, but should illustrate the length of pipe defined by your calculations in the assignment.
4. Next, watch the *Storm Water Runoff* presentation and take a page of notes. Make sure that your notes include information on how to approximate the areas of stormwater runoff, as well as the volume of water that needs to be accounted for.
5. Get the *Stormwater Runoff Assignment* and complete it. Be sure to copy the essential calculations into your engineering notebook.
6. Create at least four (4) 3D renderings of your Habitat for Humanity house. Choose renderings that showcase the main areas and views of the house. Give the house a title, and create a poster (20"x30") in Photoshop to showcase the house.

Part 3: Tasks	5 points	4-3 points	2-1-0 points
 Wastewater Notes	+ You took a full page of notes on the <i>Wastewater</i> presentation.	- Your notes are less than a page or missing important information	- Your notes are severely lacking
	<b>10-8 points</b>	<b>7-4 points</b>	<b>3-0 points</b>
 Wastewater Assignment	+ You completed the <i>Wastewater Assignment</i> , including parts that needed to be recorded in your notebook. + You added your sewer line annotation to your Revit design	- You did not complete all the parts of the <i>Wastewater Assignment</i> - You did not add your sewer line to your Revit design	- You did not finish your <i>Wastewater Assignment</i> - Your assignment is missing
	<b>5 points</b>	<b>4-3 points</b>	<b>2-1-0 points</b>
 Stormwater Runoff Notes	+ You took a full page of notes on the <i>Wastewater</i> presentation.	- Your notes are less than a page or missing important information	- Your notes are severely lacking
	<b>10-8 points</b>	<b>7-4 points</b>	<b>3-0 points</b>
 Affordable Home Stormwater Runoff	+ You completed the <i>Stormwater Runoff Assignment</i> , including parts that needed to be recorded in your notebook.	- You did not complete all the parts of the <i>Stormwater Runoff Assignment</i>	- You did not finish your <i>Stormwater Runoff Assignment</i>
	<b>5 points</b>	<b>4-3 points</b>	<b>2-1-0 points</b>
 Showcase Poster	+ You created a 20" x 30" poster in Photoshop illustrating your house + You included at least 4 3D renderings in your poster	- Your poster has fewer than 4 renderings - Your poster does not show much detail	- Your poster is missing
	<b>5 points</b>	<b>4-3 points</b>	<b>2-1-0 points</b>
 Take the Unit 4 Quiz!	+ You took the Unit 4 Quiz before the due date + Your grade is based on the number correct	N/A	- You did not take the Unit 4 Quiz by the due date

