

Drafting II		Grades 9-12	
Standards		Benchmarks	Activities/Examples
9. Students will develop an understanding of engineering design.	I	Established design principles are used to evaluate existing designs, to collect data, and to guide the design process.	Student will draw a single line drawing of a 3,000 square foot home.
	J	Engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.	Student will draw their single line drawing on to the computer program “Revit.”
	K	A prototype is a working model used to test a design concept by making actual observations and necessary adjustments.	Student will draw their single line drawing on to the computer program “Revit.”
11. Students will develop the abilities to apply the design process.	Q	Identify criteria and constraints and determine how these will affect the design process.	Student will draw a single line drawing of a 3,000 square foot home.
			Student will present their “Dream Home” they designed in a class presentation and develop a portfolio for display.
17. Students will develop an understanding of and be able to select and use information and communication technologies.	Q	Technological knowledge and processes are communicated using symbols, measurement, conventions, icons, graphic images, and languages that incorporate a variety of visual, auditory, and tactile stimuli.	Students will apply knowledge and processes that communicate measurements, symbols, and graphic images. All of the assignments in Drafting II will have these elements in them.
20. Students will develop and understanding of and be able to select and use construction technologies.	J	Infrastructure is the underlying base or basic framework of a system.	Read, lecture, discuss, and test on residential construction techniques.
	K	Structures are constructed using a variety of processes and procedures.	Student will draw a single line drawing of a 3,000 square foot home.
			Read, lecture, discuss, and test on residential construction techniques.
			Student will draw their single line drawing on to the computer program “Revit.”
L	The design of structures includes a number of requirements.	Read, lecture, discuss, and test on residential construction techniques.	
N	Structures can include prefabricated materials.	Read, lecture, discuss, and test on residential construction techniques.	