Week 10 Report

Standing Gardener

Work Completed

This week for the standing gardener much progress has been made. We changed our knee pad design. Previously the design was to have each knee device to be one piece and have each side knee pad be movable. We decided this was unnecessary and now have a front knee pad which also has a stationary side pad connected to it. To adjust the width of the device a separate side knee pad has been made which will be completely mobile to fit the knee however needed. This design will be mobile in every single direction for maximum comfort. Slotted sheet metal will be attached to the legs of the gardener to which the pads will be anchored. The sheet metal will be able to be moved up and down along the legs. The design of the knee pad device is shown in figure 1 below. Figure 2 shows the pieces which were made for the knee pads.

Figure 1: Knee pad device drawing.
Also this week waist brackets have been made which will hold the pads used for the client’s waist. These pads will be able to be moved in and out to fit the user’s waist as it grows. The only pad which will be stationary will be front pad. These pieces are made out of eight inch sheet metal which has been bent using the hydraulic break. The side pads for the waist will each have two bolts which will connect the brackets and the front pad will have four bolts since it is larger than the side pads. Figure 3 shows the waist brackets which were made.

The soil catching drawer has also been made to go underneath the pot holder. It was made out of sixteenth inch sheet metal. Two stainless steel strips were also bent into a Z shape. These pieces will be welded to the bottom of the table and will allow sliding of the soil catcher. A stop has been made for the back of the soil catcher to make sure it doesn’t slide too far. The soil catcher and its supports are shown in figure 3 below.
Figure 3: Soil catching drawer.

Also the table top material had come in and the cutting process has been started. The material is called Kleer and is shown in figure 4 below.

![Figure 4: Table top material](image)

**Future Work**

In the future we will need to order a couple more parts. Also we will be making pads to fit in the supports we have made. The foot supports will also have to be made for the standing gardener.

**Multi-terrain Wheelchair**

**Future Work**

Once we order cup holders and the umbrella holder we will mount these. Also when the foot straps come in we will attach these to the foot supports of the wheelchair.

**Hours Worked: 15.5**