

II. DESIGN PROCESS

In our third and final design, we removed a few zero force members in order to improve our efficiency. In testing our third design we saw the impact of the widened member CD. We were able to hold nearly 113.5 lb in our preliminary testing, and the breaks did not always occur in CD either, which we were very happy about. In the tests of our final design failure occurred somewhere between 88.5 lb and 113.5 lb. The breaking point was mostly at CD, but sometimes at other members such as DE, EF, AB, or BC. Unfortunately, in our final test it failed at 88.5 lb at members CD, AB, and BC. Below is our broken truss from after the final test, a scale drawing of the truss is included on the next slide.

