

Assignment 2. Measurement

Temperature and Wind Measurement in front of Van Pelt Library

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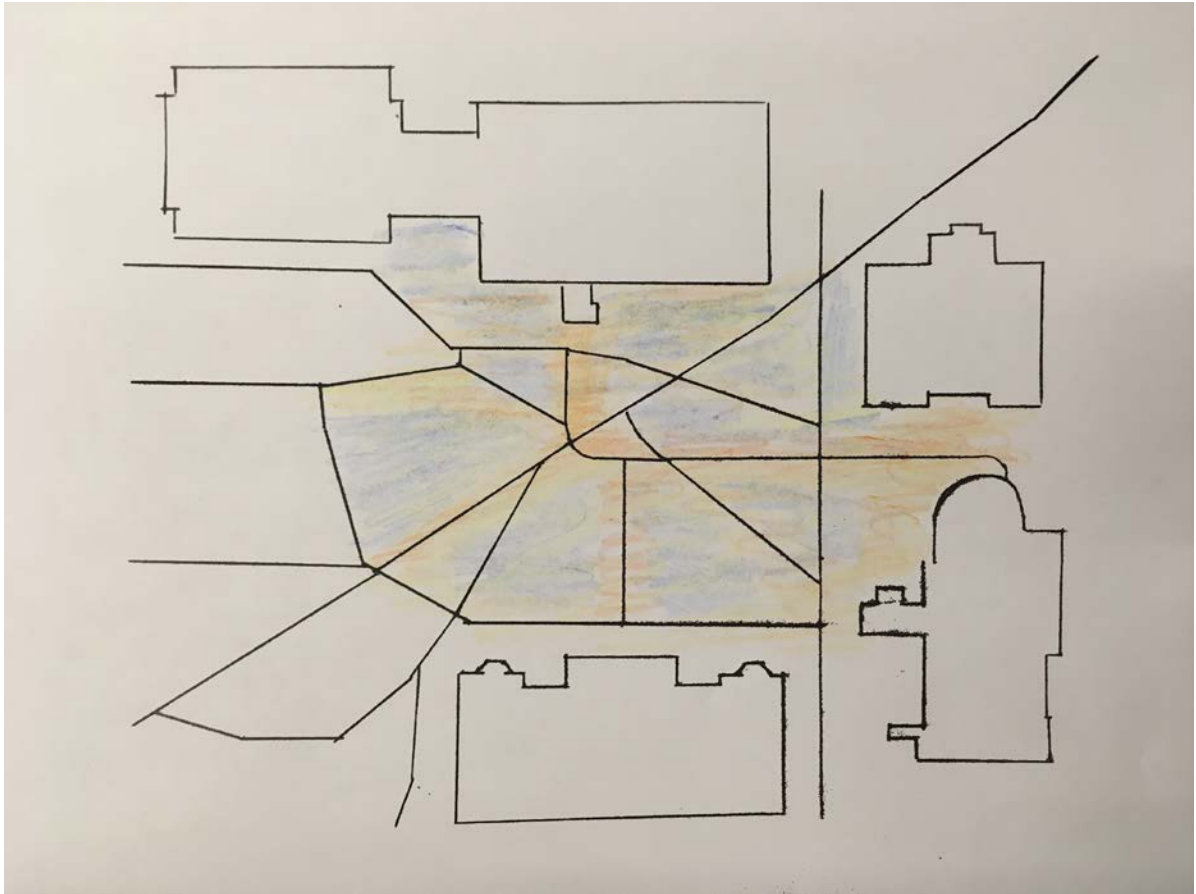


Day Bulb Temperature, Relative Humidity, Dew Point Temperature, Wind Speed

1976/09/11 @ 12:00:00 22.8 38 7.78 3.1



22.4 degrees Celsius, 1.4m/s



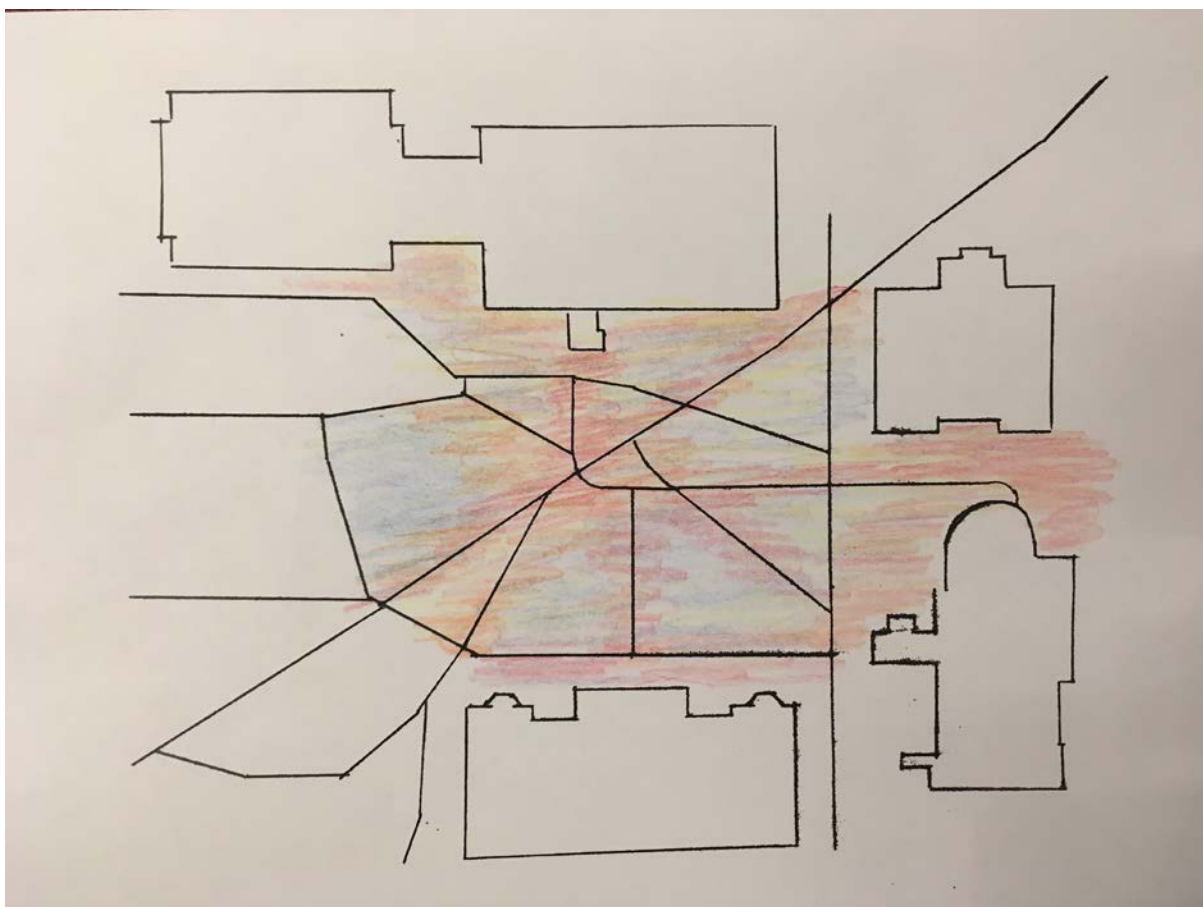


Day Bulb Temperature, Relative Humidity, Dew Point Temperature, Wind Speed

1976/09/11 @ 15:00:00 24.4 30 5.74 1.5



25.9 degrees Celsius, 0.9 m/s





Day Bulb Temperature, Relative Humidity, Dew Point Temperature, Wind Speed

1976/09/11 @ 18:00:00 20.6 59 12.35 4.6



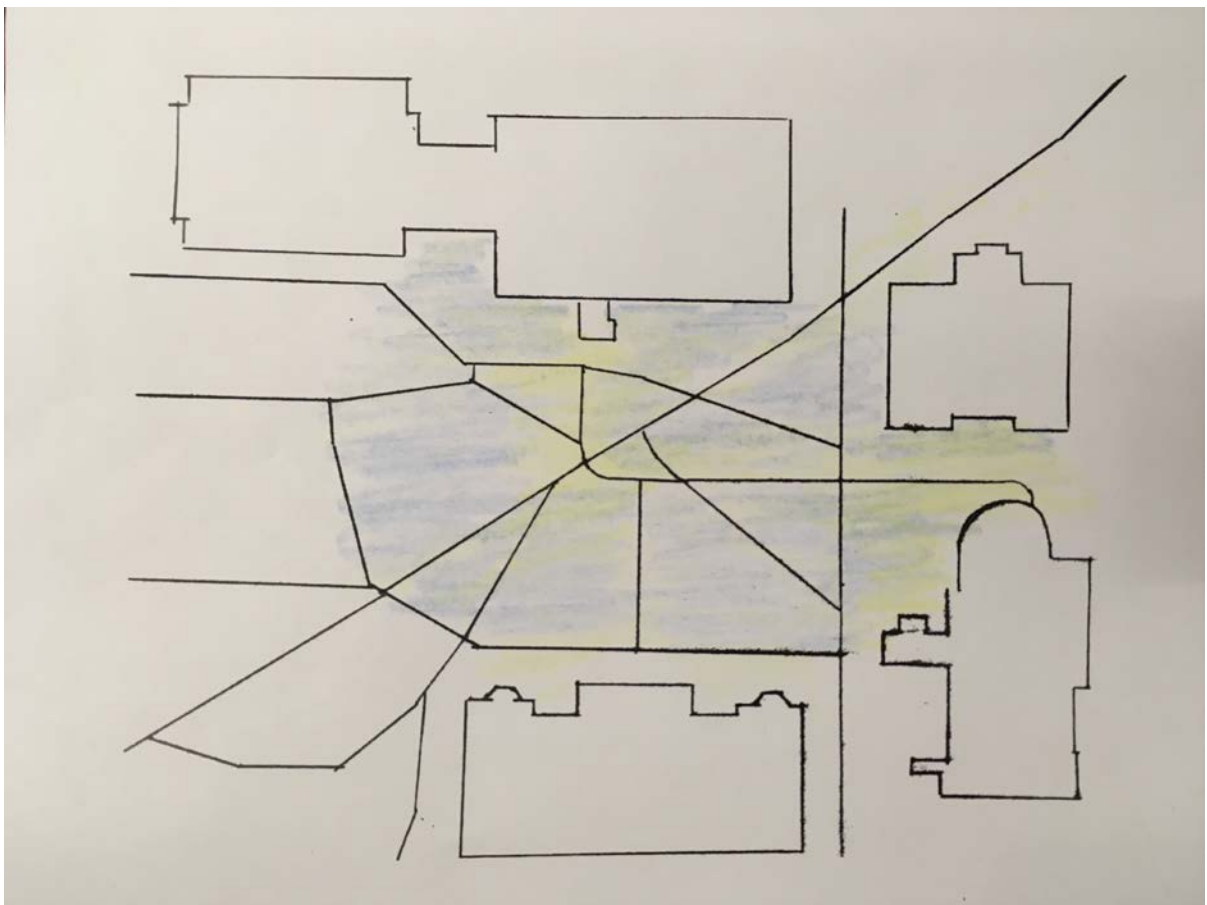
20.6 degrees Celsius, 1.1 m/s



25.2 degrees Celsius



20.8 degrees Celsius



Design Proposals

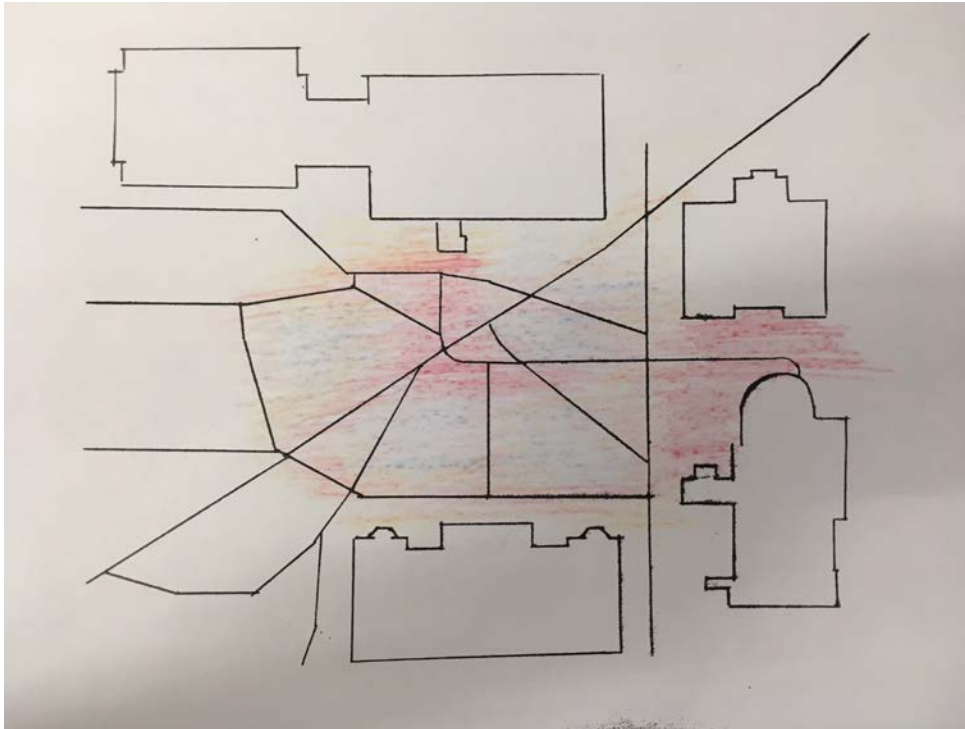
1. Plant more trees that make shade on the plaza
2. Change the paving into material that does not absorb heat too much (ex. Grass), or bring in water into the site.



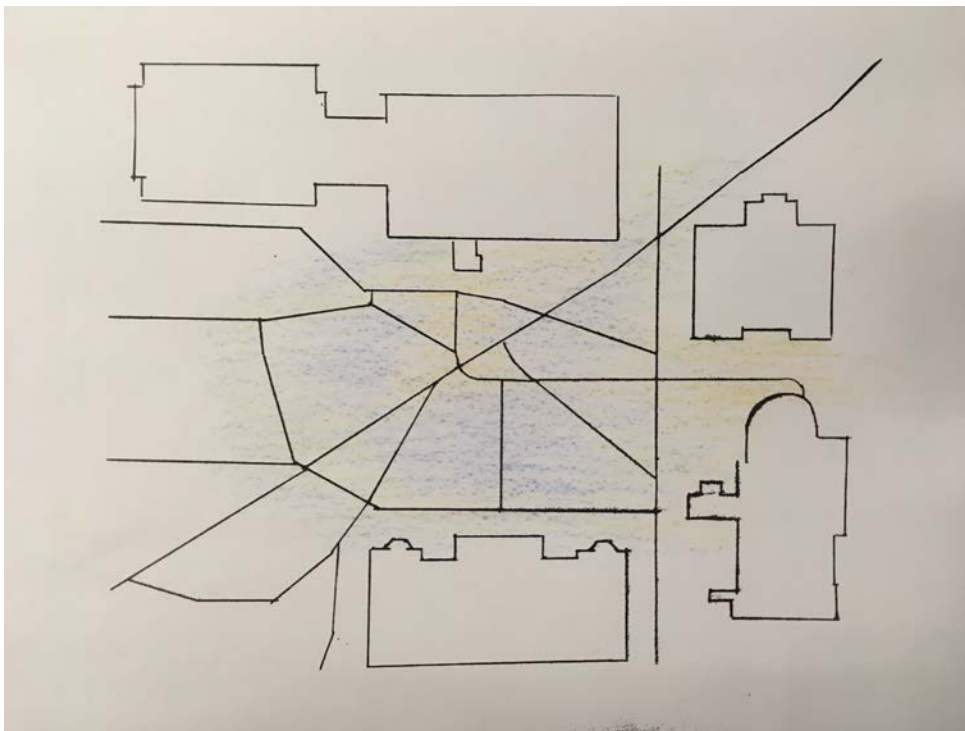
Difference between the data

There were some differences in the data. First, the wind speed tends to be lower than the typical data. It may be because of the buildings and trees around the plaza which block wind. Second, the temperature had a difference in the afternoon. The temperature at 3pm was higher, and the temperature at 6pm was lower compared to the ones from the weather app. It is probably because of the pavement of the surface. The brick pavement tends to heat up and cool down fast. So, at 3pm the temperature became higher than the temperature from the airport and at 6pm, when the sun went down, the temperature was lower.

Comfort Map Prediction



Summer



Winter