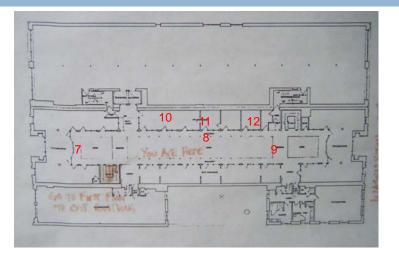


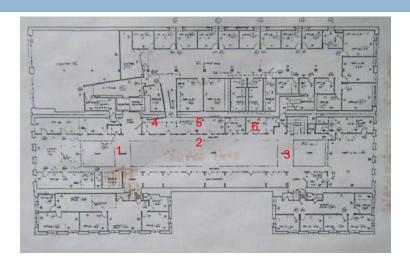
# Hypotheses

- Average temperature decreases 2 degrees F with each descending floor level.
- The temperature difference (between the gallery and atrium space) decreases with each descending floor by 2 degrees F.

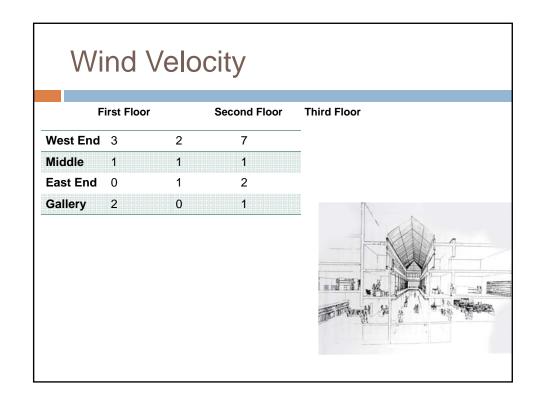
# Second Floor Hobo Placement



# Third Floor Hobo Placement



### **Surface Temperatures** First Floor Outside 69 degrees 71.5 71.5 Atrium Glass Roof East Gallery degrees F degrees F Side-80 degrees F Ledge (Atrium) Atrium Glass Roof West 69 degrees Inside 71 degrees Side- 78 degrees F Gallery Gallery 69 degrees 70.5 Wall degrees F Third Floor Sensors West Second Floor Middle Middle East Outside 77 degrees 75 Degrees 77.5 68 degrees F 76 degrees 78 degrees Outside Gallery degrees F Gallery Ledge Ledge (Atrium) (Atrium) Inside 73 degrees 73.5 74 degrees Inside 61 degrees F 66 degrees F 70 degrees Gallery Degrees F Gallery Ledge Ledge Gallery 73 degrees 71.5 72.5 Gallery Wall 68 63 degrees F 68 degrees Wall degrees degrees F degrees



### **Acoustic Results**

- Atrium
  - □ 60-61db
- Third Floor
  - Middle Gallery Space-53-54 dB
  - □ Gallery Entrance-59-60 dB
  - □ Third Floor Atrium-63dB
- Theatre
  - □ 40-45 dB
- Elevator
  - □ 63-64 dB

**Appropriate Acoustical Range**Office Spaces/ Restaurants – 45-60

Theatre- 35-40 dB



### **Acoustical Survey**

### **Questions Asked**

- 1.) On a scale from one to ten what is the level of loudness of this space?
- 2.) On a scale from one to ten what is the annoyance level of this space?
- Results
  - On the third level people that rated the loudness over a 5 and the annoyance number would be typically higher that the loudness number
  - Results showed that it was quieter on first floor and the annoyance number was usually lower that loudness number.