

MEYERSON HALL MASSING REDESIGN

When attempting this massing re-imagination, I tried to take into account the worst parts of the current Meyerson design and alter them to respond to the elements.

I chose to respond to 3 main components of Meyerson's design, as well as going back and forth between visual analysis and the Grasshopper definition that gave it a score.

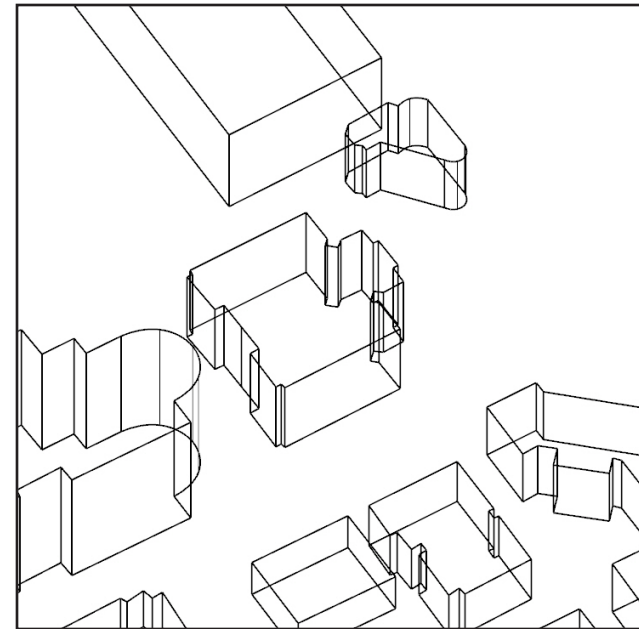
The 3 elements are

- i: Orientation
- ii: Symmetry
- iii: Facade exposure/flatness

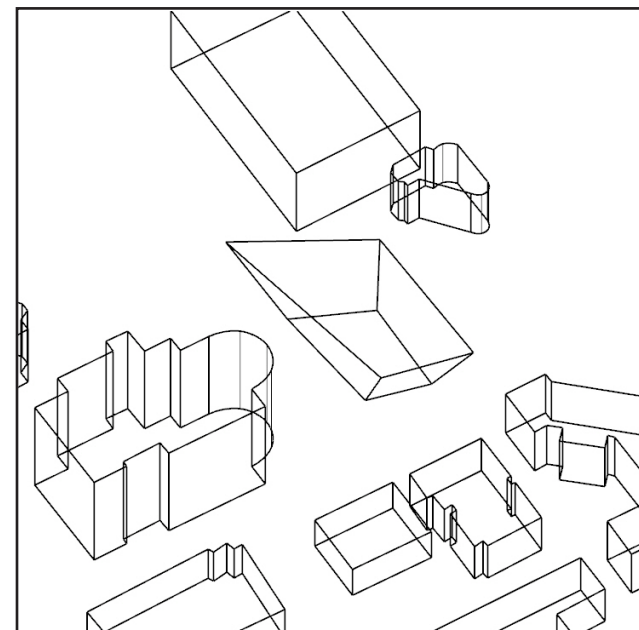
The current Meyerson building is oriented to interact with the adjacent streets, not the sun. The new massing ignores the street-scape and instead orients itself so that it takes full advantage of the winter sun.

The existing Meyerson is also symmetrical about its North/South axis, which means it's susceptible to the harmful heat of the southern sun. The new massing addresses this problem by reducing the facade exposure in areas where the sun will be too hot during the summer and expanding it where the sun will be a useful element in the winter.

Additionally, the new massing withdraws the footprint of the building, using the roof to shade parts of the facade, again reducing their exposure to "harmful" summer light. The existing Meyerson has a flat facade, which allows in both summer and winter light. The move to reduce the footprint provided the passive shading that eliminated most of the building's unwanted solar heat gain.



OLD MASSING | Energy Score: -14725



NEW MASSING | Energy Score: 3701