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Structural Option
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Thesis Proposal: Breadth Work

Investigation and Summary of Future Research and Activity

Executive Summary

Construction Management

The redesign of the floor system must be evaluated in comparison to the existing system. To do this, issues such as cost, constructability, and labor must be addressed. Each system will be examined and compared to the current system. After a comparison of each system has been constructed, a final determination will be made of which system is best.

Also, the construction process will be examined first hand in New York City in February. Any issues that have arisen or could potentially arise will be examined in-depth. Installation of the floor system will also be examined in detail to provide a firm basis of comparison for other systems.

Building Technology

The building envelope must perform as intended, otherwise water penetration could pose a significant threat to the health of the building and the satisfaction of tenants. Each part of the building envelope will be examined for adequacy, and potential issues that could arise during construction will be listed. The construction process is key to ensuring proper performance of the window wall system. The effectiveness of the building envelope will be evaluated and any faults found will subsequently warrant a proposal of a solution.