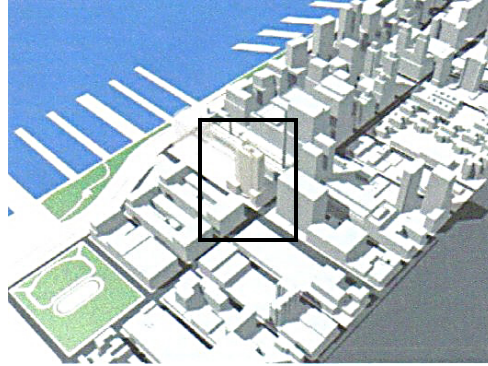


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The Helena
New York City, NY
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Pictures courtesy of Fox & Fowle Architects

Thesis Proposal

Executive Summary

As part of the depth work design on The Helena, a 600,000 square foot Manhattan apartment building, the column locations will be re-designed by creating a new schematic and referencing it to the architectural drawings to determine new locations for the columns. As a result of the new column locations, the foundation will need to be re-designed based on the new locations and loads of the columns as well as the bearing capacity of the soil. Also, the mechanical ductwork will need to be checked to determine if the new column locations will interfere with the routing paths of the ductwork. If this is the case, a new schematic will be created, in reference to the existing drawings, to re-route the ductwork so it will not interfere with the new column locations.