

Nick Szakelyhidi
Structural
MK Parfitt
Office Building*
12/11/05



All renderings courtesy of Dreyfus Property Group and KRJDA

Thesis Proposal

Breadth Summary

A revision to the structure of a building means a revision of the building as a whole. Impacts to accompanying systems must also be addressed. In addition to the other systems, construction sequences and methodologies are also influenced. A revised schedule will be created to reflect the new choice of structural system. From this schedule, a new cost estimate will also be determined. At that point the constructability and economy of the new system will also be established. These items may or may not affect the LEED rating of the building. An analysis of the current LEED rating will be done, and possible supplements to the current LEED certification plan will be included. Also noteworthy is that one possible solution alters the architecture of the building. The one-way skip joist system requires the addition of columns. The effect of adding these columns will be determined. A revised floor plan will be presented to ensure that the architectural identity of the building is not significantly changed.

*Building location withheld at owners request