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## **Executive Summary**

### **Breadth Work:**

As any one familiar with the building construction profession would know, there are many issues that need to be addressed when the structure of a building is changed. Such a change has an impact on *all* facets of the building project. For this proposal the main topic that will be addressed is construction management issues. Cost and time duration aspects of the construction management side of the building process will be determined. Secondly, a new lighting scheme will be presented to replace an existing lighting scheme in a particular room.

### **Construction Management**

With any newly designed system there are multiple construction management issues to discuss such as constructability, cost, construction duration, and transport of materials...etc. The proposed structural system is a complete change over to concrete from steel. The new system will affect any of the construction management issues. For this report the construction management issues that will be examined will be as follows...

1. Cost of concrete as a material.
2. Cost of Labor
3. Duration of erection.

To determine all of these factors tools such as RS Means, MC<sup>2</sup>, and Primavera will be used. When the issues are addressed, they will then be compared to the original cost and duration issues.

### **Lighting**

For the lighting proposal one specific room will be analyzed. The existing lighting effects will be represented with a lighting rendering program. After critical issues are identified, a new lighting scheme will be presented in contrast to the current system. Reasons for the change will also be presented.