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## **Executive Summary**

The purpose of this report is to identify areas of the project that are good candidates for research by investigating critical project areas that will illuminate a different perspective of the construction and design process of the City Hospital. These project areas will form the basis for the City Hospital thesis proposal.

On Wednesday, October 24, 2007, I attended the PACE Roundtable event, “Building Collaboration”, was organized by the Architectural Engineering department. At this event, I gathered information on several possible research topics from the panel discussion. The discussion sessions were focused on: (1) Workforce Development, (2) Prefabrication, and (3) Building Information Modeling which will be elaborated on later in this report. The PACE Roundtable event allows the building industry professionals and students to share their various perspectives on the current challenges facing the building industry; this will also be elaborated on in this report.

The Critical Issues Research Method section of this report will identify the issue of Building Information Modeling on the City Hospital project and challenges that is facing the industry in the Southeast Pennsylvania area.

The Problem Identification and Technical Analysis Method addresses several alternative methods that can be analyzed using different investigation areas such as constructability review, value engineering analysis, and schedule reduction. Most areas of interest on this project will focus on alternate methods to accelerate the schedule of the building. This is imperative because Turner Construction Company has a very limited amount of time to complete the project as well as have the building enclosed, so that the construction of Phase II can begin.

This report contains information about the critical issues facing the construction industry, these issues also face the City Hospital project. Also contained in this report are several problematic aspects of the project, an analysis that will address the problems on the project, and a weight matrix that will illustrate the analyses and core areas of investigation.