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North Elevation

EXECUTIVE SUMMARY

In Technical Assignment 3, you will find Critical Industry Issues, Critical Issues Research Method, Problem Identification, and Technical Analysis Methods. This report is intended to give the reader a preview of my research topic and building systems analyses. The reader will also be given a description of my research methods that I plan to use to address these issues.

The Critical Industry Issues section provides a summary of the sessions that I attended at the PACE (Partnership for Achieving Construction Excellence) Research Seminar. At the PACE seminar, students were given the opportunity to converse with leading industry professionals about these topics, which included Integrated Design Management, Innovation, Healthcare Facilities, and Team Building. I attended sessions that discussed “Healthcare Facility Design and Delivery” and “Integrated Design Management” so that I could explore different research topics and gather information and questions that were generated.

In the Critical Issues Research Method section, a topic was identified that I wish to research in the upcoming semester. Research will include looking into aligning the building owner’s goals with corresponding LEED[®] points for their construction project. The results of this will hopefully aid building owners, design teams, and construction managers in the planning and construction phases of their project. My goal through this research is to produce a tool that generates a list of LEED[®] points that are based on a set of goal-oriented questions.

The Problem Identification and Technical Analysis Methods address several potential problems on the Columbia Heights Community Center that can be analyzed using different methods such as constructability review, value engineering analysis, and schedule reduction. The three issues that were identified look at using a precast brick façade on the south wall, using open-web steel joists above the gymnasium area in lieu of the large steel I-beams, and an alternative method of constructing the foundation system.