

***THESIS PROPOSAL:***

***CRITICAL ISSUES RESEARCH & TECHNICAL ANALYSES***

***Executive Summary***

The following proposal contains the proposed critical issues research, two breadth technical analyses, and the final technical analysis.

The critical issues research will look at the issue of multiple entities being the owner. The goal of this research is to learn how to address the different entities of the owner and how to better understand and deal with them. The final outcome will be a simple guide on getting to know your owner.

The two breadth technical analyses will look at using precast members for the façade, and structural steel for the courtyard infill. In both analyses the precast members will be designed and cost, schedule, and site layout impacts will be addressed. In the case of the precast panels an U Value analysis and a heat and moisture transfer analysis in the program WUFI of the existing and proposed façades will be done to determine the heat and moisture characteristics of the façades.

The final technical analysis will be an infection control risk assessment performed for Frederick Memorial Hospital. The results of the assessment will be compared with the current procedures used at the construction site.