

EXECUTIVE SUMMARY

This document contains the specific areas of interest that will be analyzed for my thesis research this spring. The three particular topics contained within are Workforce Development, Structural Steel Erection Sequencing, and Removal of Green Roof.

Analysis I- Work Force Development

This analysis will attempt to identify the causes of negative industry perception and examine the necessary steps to reengage interest into the trades.

Analysis II - Structural Steel Erection Sequencing

This analysis will focus on re-sequencing the complex steel erection sequences that are intertwined with the masonry phasing schedule. This will also involve an in depth look at crane usage and placement. The goal of this analysis will be to reduce the overall construction schedule and improve the flow of superstructure phasing.

Analysis III – Removal of Green Roof

This analysis will explore the long term benefits of a green roof system in comparison to its short term construction impacts both environmentally and economically. A redesign of the roof will take place to accommodate a more conventional roof system. This will involve both structural support system (**Structural Breadth**) and the mechanical system (**Mechanical Breadth**) supplying the space.