Executive Summary

This thesis report intends to illustrate the research of green schooling design vs. conventional school design. The principles researched were then applied to my specific building, Baldwin High School. Within this document you will find the research of applying green construction incentives to school buildings and the benefits of which this methodology provides. The issues of sustainability and the implications of what a high performance school suggests are the sole reasoning behind this thesis. After successful research has been illustrated you will then find two analysis sections of the report. These analyses's will then offer alternative methods of construction –which support the ideology of implementing green building processes into design. The first analysis section takes into regard the benefits of green schooling. It is the design portion of my thesis and here you will find the means and methods associated with a green roof system. The original plans and specifications do not include a green roof within Baldwin's design criteria. This gives ample opportunity to suggest, design, and reciprocate the benefits of a green roof construction. The second analysis section utilizes the findings from both the first analysis section and research section of the technical document. From the conclusions arrived at in both sections, precedence was set to examine the benefits of an alternative material selection for the already established and estimated item cost of windows. Therefore, this analysis will act as a secondary analysis to determine how a more environmentally conscious window selection can be used in design with relatively no cost increase.