



EXECUTIVE SUMMARY

This report contains alternate systems and method analysis for the additions and renovations to Penn Valley Elementary School. Included below is detailed information about the temporary utility requirements, as well as a detailed systems estimate. Another estimate looked into was the general conditions estimate, and lastly some research and analysis methods to be studied as part of the next proposal.

The temporary utilities section outlines the specifications for temporary power and lighting systems, temporary water service, and temporary heating and ventilation systems. These temporary systems are crucial for getting the project started, and allowing the contractors to work effectively. In the detailed systems estimate, the vinyl tile flooring system was analyzed. This was a large part of the interior renovations to Penn Valley Elementary School. The general conditions estimate includes everything from project supervision to temporary fencing required for the project. These items as well as office trailers and temporary facilities are included in the total project cost. The final portion of this report is the research and analysis methods which will be studied for the next proposal. The research topic will compare carpet versus vinyl tile flooring for public school buildings. The results of the study will help architects and construction managers design the most efficient flooring system to be used.