



HALLGREN RESTIFO LOOP & COUGHLIN  
ARCHITECTS

November 21, 2007

Dr. Norbert J. Kennerknecht, Director  
Buildings and Grounds Services  
Warren County School District  
185 Hospital Drive  
Warren, Pennsylvania 16365

RE: Proposed Projects for  
Warren County School District

Dear Dr. Kennerknecht:

On October 25<sup>th</sup>, we received the December 1958 blueprints of Warren Area Joint High School. Based on these drawings, it was determined that there is approximately 35,500 square feet of curtainwall that should be replaced. This installation is over fifty years old and windows are non insulated panes of single glass. The metal spandrel panels have warped and have developed air leaks around their perimeters.

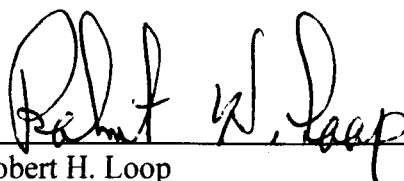
Our recommendation for this curtainwall replacement would be to provide new aluminum windows with a thermal break and glazed 1" thick insulating glass to provide an "R" value of 2.85 which is 300% better than the existing single pane glass. Also provide 1-1/8" thick 28 gauge metal panels with an isocyanurate insulation core and properly weather stripped when installed.

The curtainwall for this school consists of 22,500 square feet of windows (64%) and 12,500 square feet of insulated metal panels (36%). Based on cost estimates from contractors who specialize in this type of installation, they have suggested a cost estimate of \$50 per square foot. This price includes the removal and disposal of the existing system.

We will be available to meet with you and the Building and Grounds Committee to discuss these estimates at a time that is suitable to all parties.

Very truly yours,

HALLGREN, RESTIFO LOOP & COUGHLIN

  
Robert H. Loop