

Analysis 3, Schedule Acceleration:

This residence hall is scheduled to be occupied during the fall semester of 2006. In fact, the rooms have already been assigned to students. Because of the cost of delivering this project late it is a good idea to know ahead of time how the project can be accelerated in case there are any unexpected delays. I would like to look at two methods of speeding up the schedule.

The first schedule acceleration method would be implemented in the design phase and would involve changing the wall system from CMU with brick façade to precast concrete with embedded brick. Replacing the time consuming masonry work with a much faster method will reduce the overall construction time of the project. The redesign of the structural walls will be used to meet one of my breadth requirements.

The second method is to create a SIPS schedule for the finishing trades. Currently the schedule simply gives a date where the finish trades are expected to be able to occupy a floor and a date when they need to have the floor completed. It would be much more efficient to create a flow of trades from one apartment to the next working down the hall. Besides being more efficient this would have the side affect of reducing

In order to help present the changes proposed, a 4D model of the building will be created. The 3D shapes will be created in AutoCAD and will be merged with a Primavera schedule using NavisWorks to create the 4D effect. Showing the results of the research in a visual form will allow those interested to actually see how the changes will affect the construction of the building and the final product.