



ANALYSIS 1: Façade Investigation (BREADTH)

The goal of this analysis is to find the best way to manage the many different types of facades on the building to help avoid leaks at the joints. This may involve having less variations of façade types in the building or just fining alternate types to help the building seal better. The alternate systems found should perform as well or even better mechanically to help with heat loss in the building. By changing the façade system I hope to be able to add value to the building through value engineering, schedule reduction, constructability issues as well as make the building more energy friendly.

The following steps will be taken to complete this analysis:

- Analyze the existing façade looking to minimize the number of joints between different facades and alternate façade systems such as precast systems.
- Consult with mechanical option faculty to do a heat and moisture loss comparison between the two systems
- Perform a U-Value analysis of the current and proposed system.
- Do an architectural design comparison between the two systems.
- Complete a cost and schedule comparison between the current and proposed systems to look at a schedule to cost comparison.

The benefit of the new system will be seen in the reduction of risk of leakage between joints as well as a schedule reduction helping the building façade system to be completed earlier.