

Breadth Studies

While completing the construction management analysis for 700 6th Street, I plan to investigate other area specialties of the Architectural engineering program. The breadth studies I have selected are briefly explained below.

Solyndra Solar Panels-Electrical Breadth

An electrical breadth will consist of the research of Solyndra solar panels. My research would consist of contacting the Solyndra solar panel manufacturer and obtaining all the information I can get. I would then contact the installer and find out how much it would cost. In order to figure out the lifecycle cost it will be necessary to find out how much electric is used per year and then compare it to how much electric is generated per year. I expect the outcome to lead to a positive life cycle cost. Through my research the Solyndra panels could be a viable option to the owner.

Precast vs. Limestone-Architectural Breadth

This architectural breadth will consist of a comparison of precast vs. limestone. All the limestone above the 6th floor will be replaced with precast that looks like limestone. The limestone is only used for aesthetics and at floors 6 and above the difference should not be seen with the naked eye. This research will lead into an architectural breadth which would entail if there is a noticeable difference between limestone and precast at that height. This analysis will also consist of a cost analysis because precast the precast is much cheaper. There will not a schedule reduction because the mounting method does not change.