

PROPOSAL BREADTH TOPICS

CONSTRUCTION MANAGEMENT PROPOSAL

Using a geothermal heat pump system to condition the building requires a lot of upfront consideration. Due to the system's unfamiliarity among much of the industry, costs for installation and equipment can be pricey. The costs for additional equipment will also add to the building's overall cost. More subcontractors will also be added to the already lengthy list of construction members adding potential unseen problems. The overall schedule of the project will be lengthened due to the geothermal heat pump system. For the case of this construction breadth an adjusted schedule will be formulated. The location of the well field and the sequencing of the drilling process will also have to be taken into consideration. A cost break down will also be estimated to the best of my ability, with bids for equipment and labor being used as a spring board. By altering the mechanical system of the building to help improve the building's energy usage other elements, such as this construction breadth, are affected and could possibly negate the mechanical benefits of the system.

ELECTRICAL PROPOSAL

The geothermal heat pump system will eliminate some previously necessary equipment. This means that there is much less energy and electricity being used on a daily basis. The possibility of downsizing electrical equipment presents itself with this change in mechanical systems. This opportunity will be analyzed and the cost savings in the change will be assessed.