

# MUSKOGEE COMMUNITY HOSPITAL FEATURES

While tracking LEED Gold, Muskogee Community Hospital is the only hospital in the United States with 100% heating and cooling from a ground source heat pump.

This unique system consists of 280 holes – 70 per field. Each of the holes or wells, has been bored 300 feet into the earth to better utilize the thermal energy radiating from the earth's core. Water is pumped into these wells, then circulated through the complex via the HVAC system. Geothermal energy will keep MCH's residents cool in summer and warm in the winter.

MCH incorporates full height glass in the towers main entrance storefront and high performance glass and glazing throughout, to take advantage of reflective and low-e properties. The windows are high on the exterior walls and will be incorporated, in addition to clerestory windows and light shelves, with the intent of bathing the majority of the interior space in natural light.

A portion of the façade is covered with no maintenance stucco covers. A secondary weather wrap to prevent moisture intrusion and eliminate any possibility of mold growth sheathes the entire building.

MCH User-Effective® features incorporate details that provide a functional space to maximize employee efficiency and energy savings. All work spaces are located adjacent to an exterior window bay to maximize daylight and views. The interior will be equipped with a sound masking system at the discretion of MCH, further enhancing employee comfort.

The top of the building will be covered by a heat reflective, TPO roofing system on top of two inch rigid insulation and batt insulation with vapor barrier under the roof deck. The roof more than pays for its additional cost through the savings gained from the reduced operating cost.

Landscaping at MCH is as innovative as the building. Xeric gardening will be utilized and a landscape design aimed at the goal of zero potable water use will be employed. Native shrubs and other plants, acclimated to the climate, will provide focal interest and, within two seasons, will require minimal irrigation from the drip systems, thriving instead on the natural moisture of the area.

