



Lake Land College had outgrown its heating and cooling system capabilities.

During the 2008 summer break, we replaced the previous system with a new, expandable geothermal exchange loop which surrounds the entire perimeter of the campus. 140 geo-exchange bores were put into place on the new loop. The Vo-Tech building and the Field House were immediately served by the expanded one-pipe system, and additional HVAC upgrades were added to those buildings.

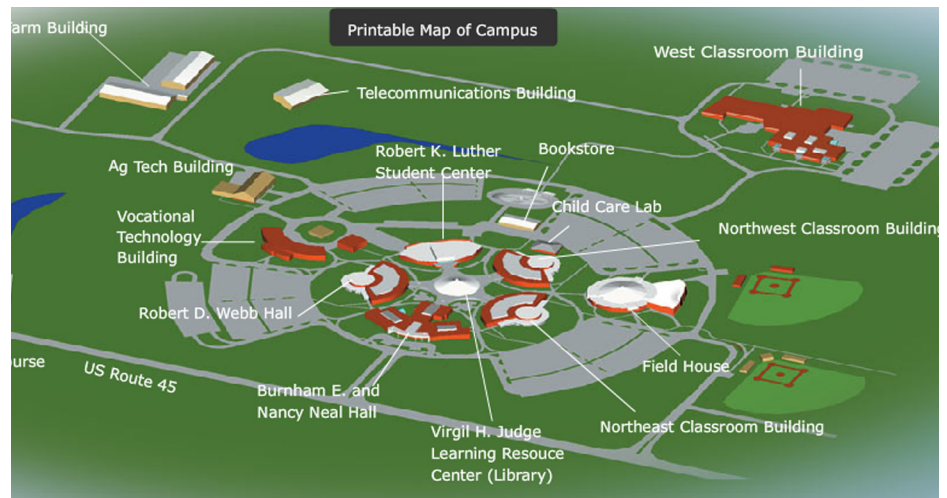
The results were immediate. The college now saves approximately 850,000 KWH of electrical energy annually and has essentially eliminated natural gas from its heating system.

The expandable, one-pipe system was designed to grow with future campus needs, ensuring affordable, energy-efficient heating and cooling long into the future.

Client satisfaction has resulted in several additional geo-exchange projects on this campus since 2008.

Campus-wide geo-exchange loop design and retrofit of existing buildings

- Ground source geothermal exchange system
- One-pipe design
- System is expandable to meet future needs
- HVAC system upgrades
- Demolition of previous system units and piping
- 850,000 KWH in annual electrical energy savings
- Natural gas eliminated from heating system



Campus map courtesy of Lake Land College

Buildings served include:

- Robert D. Webb Hall
- Virgil H. Judge Learning Resource Center (Library)
- Field House
- Northwest Classroom Building
- Vocational Technology Building
- West Classroom Building
- Northeast Classroom Building
- Net-Zero Building

Current projects:

- Administration Building Expansion
- SW Bore Field Expansion