

GEOTHERMAL SYSTEMS

Hamilton County Planning and Development, Room 801 County Administration Building (513) 946-4550

I. APPLICATION REQUIREMENTS

- A. Complete the Residential Application Form and the Geothermal Information Sheet
- B. Submit three (3) copies of the survey/site plan with the geothermal information provided

Note: If the residence is currently under construction, the application should be submitted as a revision to the original building permit.

II. SITE PLAN REQUIREMENTS

- A. Scale = Minimum 1:20
- B. Indicate the location of all easements and rights-of-way on the lot
- C. Indicate the location of other facilities or structures existing on the lot
- D. Indicate the distances to all other buildings, proposed or existing on the same lot
- E. Indicate all utilities appurtenant to the property including storm sewers, sanitary sewers, water lines, overhead transmission lines, guy wires, markers, inlets, manholes, etc.
- F. Provide typical detail of vertical or horizontal geothermal system showing minimum depth below finish grade.
- G. Provide the location, layout (spacing), and type of geothermal system being used and the location of its entrance into the existing main residence.
- H. Provide material and type of joints being used for underground pipe of geothermal system
- I. Note assembled geothermal system to be pressured tested with water at 100 psi for 30 minutes
- J. Typical section with notes and details
- K. Provide a note that the geothermal system will maintain a minimum room temperature of 68°F (20°C) at a point 3 feet above the floor and 2 feet from exterior walls in all habitable rooms at the design temperature

Note: New residences may use the current survey with the information drawn on the survey.
Existing residences may use a CAGIS site plan with the information drawn on or have a new survey prepared by a Registered Surveyor.

II. INSPECTION

- A. Verify the location of geothermal wells
- B. Pressure test the geothermal wells
- C. Verify the location and installation of the manifold
- D. Verify the model numbers on the heating/cooling equipment
- E. Approved electrical inspection from Inspection Bureau Incorporated