

**PRZM**  
DESIGN GROUP

" International  
Purposes Only "

December 20, 2007

Cindy Applegate  
1105 Pepperhill Circle  
Lexington, KY 40502-3802

RE: 1105 Pepperhill Circle, Lexington, KY  
Structural Review  
PZG8517

Dear Ms. Applegate:

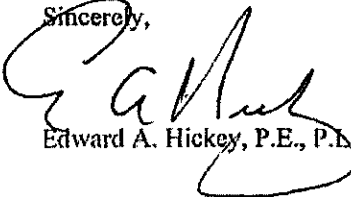
Thank you for the opportunity to work with you on your project. I have made a site investigation of the referenced residence with Diana Emerich on January 2, 2008. The purpose of this inspection was to review the cracks in the basement floor. The opinions and statements in this letter are based on professional experience and are limited to observations made solely from visual evidence. No destructive or invasive testing was performed. A comprehensive inspection and computational analysis of the entire structure was not performed. The residence was not inspected for insect damage, water infiltration or for the presence of mold. No concrete tests or concrete coring was performed

The structure is a one story framed residence constructed on a basement with concrete block foundation walls. The age of the structure is unknown, but is least 20 years old. A visual inspection was performed of the interior of the basement and the exterior of the house. Numerous cracks were observed in the concrete basement floor.

The basement floor is a slab on grade and the cause of the cracks is unknown but they may have been caused by settlement of the underlying material or by temperature changes, drying shrinkage and creep. They may have also been caused by improper concrete curing. It is unknown if there is any reinforcement in the concrete slab. There were no contraction, construction joints or expansion joints in the slab and they are not normally used in residential basement floor construction. The cracks reportedly appeared shortly after the house was constructed. The basement floor slab is non-structural and is not required for transmitting the vertical or lateral building loads to the ground. The cracks in the concrete slab do not present a structural concern.

Please feel free to call me at (859) 272-0395, if you have any questions or are in need of further assistance.

Sincerely,

  
Edward A. Hickey, P.E., P.E.S.

