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March 5, 2015

Reference No. 29137

Dallas Thompson
3100 Highland Terrace West
Austin, Texas 78731

Location of Property: 3100 Highland Terrace West, Austin, Texas 78731

On March 5, I re-inspected the foundation, which had been recently constructed for a garage. The garage was constructed with steel haunches bearing at the four corners of the slab, which was about 24'-3" x 30'- 3" in size. The perimeter of the slab footing was about eight inches in thickness; however, there were concrete footings at each corner under the slab about 24"x30" and to a depth of about eighteen inches where they were bearing on solid rock. This was confirmed by excavating down alongside the foundation.

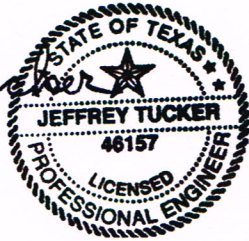
A Zircon MT-6 Rebar locator was used to confirm that rebar was in the slab at about twenty inches on center each way. The roof loads were being supported at the four corners of the foundation. The design load on the columns at each corner is about 6000 pounds, which transfers through the concrete slab into the concrete footing, which is bearing on solid rock. The load per square foot on the rock is less than one thousand pounds per square foot. The rest of the garage slab was supporting only normal floor loading for a garage. The foundation can easily support the loads of cars, trucks and boats. The siding and rock veneer around the exterior transfers to the slab foundation and is supported properly. It is my opinion that the structure of the garage including the foundation will properly support all required loads including wind loads of the 2012 IRC,

Based on the fact that the foundation is essentially bearing on rock and very stable soil and that the point loads are being transferred directly into solid rock, it is my

opinion as a licensed professional engineer in the state of Texas, and to the best of my knowledge based on my observations and experience, that this foundation is properly constructed and is structurally sound.

Also, the plans I provided for the breezeway will handle all required loads of the 2012 IRC. I can perform an inspection of the completed breezeway if necessary.

Jeffrey L. Tucker



Jeffrey L. Tucker, P. E.
Structural Engineer