

# MDL Engineering Services

213 Linton Banks  
Cary, NC 27513

(919) 999-8153  
(919) 524-4319

---

**Date:** October 24, 2024

**To:** Lee Johnson  
Red Door Homes  
Lee@reddoorhomesnc.com  
(919) 999-7554

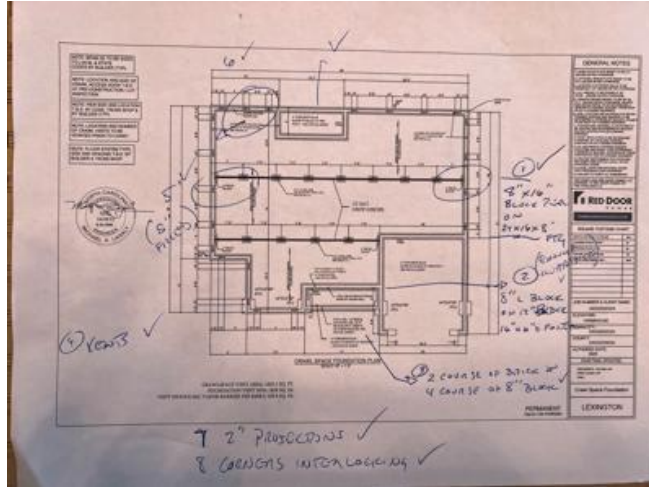
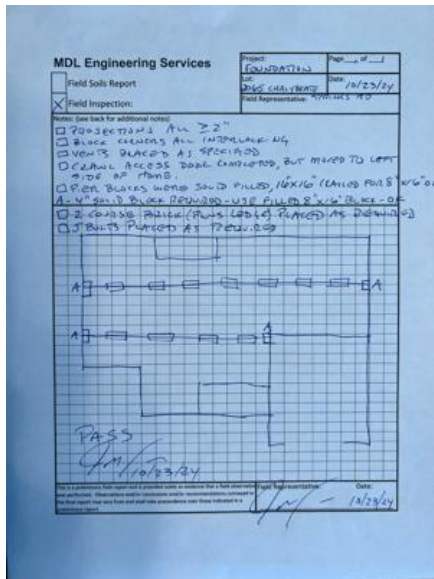
**Re:** 3rd Party Foundation Inspection  
2065 Chalybeate Springs Road  
Fuquay Varina, NC 27526  
MDL Project No. SD20338

Dear Mr. Johnson,

MDL Engineering Services was contacted on October 23, 2024 to perform a site survey and to perform a 3rd party foundation inspection for the above referenced project prior to proceeding with the home build.

## Observations

October 23, 2024



The sealed drawings for the project were available and reviewed prior to inspection.

Foundation was completed as specified by the sealed drawings, including the following:

1. Footing projections all at or greater than 2".
2. Block corners installed with interlocking matches between courses.
3. Vents all placed as specified.
4. Crawl Access door installed, although on left side as opposed to the rear of the home.
5. Pier blocks were solid fill. Piers built as 16"x16", although 8"x16" was detailed. This is acceptable.

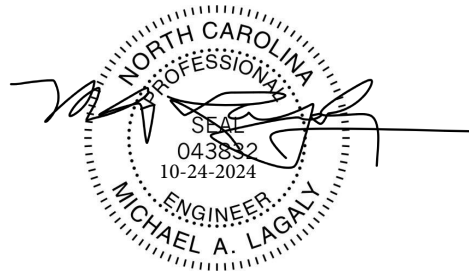
6. 4" solid block required at ends of Drop Girders built as 8"x16" solid fill. This is acceptable.
7. 2 Course bricks (plus top ledge) placed as required. Allows for enough slope with base and I Joist Install.
8. J Bolts placed as required by code.

The foundation conditions meet the requirements of the site drawings and the 2018 edition of the North Carolina State Residential Building Code.

These services have been performed with the usual and customary standard of care consistent with other professional engineers performing similar work under similar circumstances. This report is the work product of an engineering investigation. It is confidential in nature and will not be released to a third party without your expressed consent. The use of this letter is limited to the express purpose for which it is intended and may not be reused, copied or distributed for any other purpose.

I appreciate the opportunity to provide these services for this phase of your project and look forward to working with you for any future needs. Please do not hesitate to contact me if you have any questions or concerns.

Regards,  
MDL Engineering Services



Michael A. Lagaly, P.E.  
Engineering Manager

Alteration of this seal without the express written consent of the sealing engineer is a violation of the provisions set forth in the North Carolina Engineering and Land Survey Act (G.S. 89C) and may result in legal action by the North Carolina Board for Engineers and Land Surveyors.