



Project Name: Quail Glen - Lots 52 and 55 Date: 8 / 10 / 2020 GTA Rep: Brandon Parker  
 Project No.: 200385N05\* Client: Ryan Homes Weather: Sunny Temperature: 88 °F

**Location of Work:**

Quail Glen - Harnett Central Road, Angier, North Carolina

**Plans Referenced:**

Ryan Homes Foundation Drawings

**Description of Work:**

Lot 52- 123 Bark Way (Permit No.: 0037)  
 Lot 55- 124 Bark Way (Permit No.: 0076)

GTA representative arrived on-site, as requested, to test the bearing capacity of near surface soils for turn-down footings, and to perform 3rd party mono-slab observations prior to concrete placement for Lots 52 and 55 in the Quail Glen subdivision in Angier, North Carolina. Please see the above physical site addresses and building permit numbers for the Lots observed on this date.

Upon arrival, GTA observed standing water in the open footing excavation. The undersigned was requested to remain on-site and wait for the foundation contractor to remove the standing water and muck out the footing excavations. After standing water was removed and the footings mucked out, GTA tested bearing capacity of near surface soils for footings.

Utilizing a steel probe rod, hand auger, and Dynamic Cone Penetrometer (ASTM STP399) to test the bearing capacity of near surface soils for turn-down footings, test results indicated that soils; at the locations and elevations tested, appear capable of supporting a foundation designed utilizing a net allowable bearing pressure of 2,000 psf, with the exception of isolated soft soil areas identified at Lots 52 and 55 (see attached sketches).

GTA recommended removing the identified soft soils to expose a competent bearing subgrade, and backfill of the resulting excavation with #57 stone, or additional concrete during concrete placement for footing construction. GTA observed removal of the soft soils identified down to a competent bearing subgrade. The resulting excavations had approximate measured dimensions of:

Lot 52 - (18' x 1.5' x 0.75') + (9' x 1.5' x 0.5') = 1 cubic yards  
 Lot 55 - (18' x 1.5' x 0.5') = 0.5 cubic yards

**Remarks/Deficiencies/Failing Tests:**

Soft/wet soils removed:  
 Lot 52 - (18' x 1.5' x 0.75') + (9' x 1.5' x 0.5') = 1 cubic yards  
 Lot 55 - (18' x 1.5' x 0.5') = 0.5 cubic yards

Nuclear Gauge:  Soil  Asphalt  None  
 Attachments:  Location Sketch  Photos  Nuclear Field Density  Concrete Test Report  
 Material Tickets  Subgrade Preparation Report  Foundation Observation Report  
 Other \_\_\_\_\_

Portal-to-Portal Time: 5  
 Mileage: 60

The daily report is preliminary and is provided solely as evidence that a site visit was performed.

GTA Reviewer: \_\_\_\_\_





Project No. 200385N05\*  
Project Name: Quail Glen - Lots 52 and 55  
Client: Ryan Homes  
Technician: Brandon Parker

Date: 8 / 10 / 2020  
Page 2

**DESCRIPTION OF WORK (Continued)**

Please note, GTA hand-auger borings supplemented with Dynamic Cone Penetrometer (DCP) testing on this date, was performed to a maximum depth of 4-feet below bottom of footing elevation. Where deeper fill soils are present, GTA has assumed the fill soils were placed and compacted properly.

GTA recommends footings be excavated, tested, and concrete placed on the same day, if possible. Foundation observations and soil bearing capacity testing are only valid between rain events. If foundation bearing materials are exposed to freezing temperatures, inclement weather, or disturbed due to construction activity, GTA should be contacted to re-evaluate the foundation bearing materials prior to the placement of concrete.

Also, on this date, as requested, GTA performed 3rd party observations for mono-slab preparation prior to concrete placement for Lots 52 and 55

Utilizing the approved construction drawings, foundation excavations (turn-down footings and thickened slab areas) observed on this date, appeared to have been excavated to the specified depth and size. The foundation excavations were observed to be free of loose soil, debris, and water.

Also, GTA observed a 6-Mil vapor barrier had been placed in slab areas. Additionally, GTA observed insulation board along the perimeter of the exterior walls. The vapor barrier and insulation board placement observed, appeared to be in general accordance with the approved project drawings.

Based on GTA visual observations and testing performed on this date, the soil bearing conditions and mono-slab preparations for Lots 52 and 55, appeared to be in general conformance with the 2018 North Carolina Residential Code and approved construction drawings.

Please see the attached site photos for site conditions observed by GTA on this date.



# SKETCH

Project No. 200385N05\*  
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Date: 8 / 10 / 2020  
Sketch No. 1

### FOUNDATION OBSERVATION REPORT

Project: Quail Glen Project No.: \_\_\_\_\_ Date: 8 / 10 / 2020  
 Soils Report Used: \_\_\_\_\_ Structural Plan Used: \_\_\_\_\_ Revisions: \_\_\_\_\_  
 Lot No.: 52 Site Plan Used: \_\_\_\_\_  
 Technician: Brandon House Type: Birch Soil Bearing: 2000 psf  
 6 Mil Vapor Barrier Observed:  Yes  No Insulation Board Observed:  Yes  No  
 Permit No.: 0037 Address: 123 Bark way

Wall/Column Footing	Width (in.)		Depth (in.)	
	Required	Measured	Required	Measured

Sketch:

GTA recommends testing bearing capacity of foundation bearing materials and pouring concrete for footings on the same day, if possible. Foundation observations and soil bearing capacity testing are only valid between rain events. If foundation bearing materials are exposed to inclement weather or disturbed due to construction activity, GTA should be contacted to re-evaluate the foundation bearing materials prior to the placement of concrete.

Comments: Areas at the location and elevation test should be Capable of supporting the footing as designed.  
3 in scrape full lot.

NOTES: 1. Any undercuts?  Yes  No Describe \_\_\_\_\_  
 2. Undercuts backfilled with:  Stone  Flowable Fill  Concrete  
 3. Re-visit Required?  Yes Reason: \_\_\_\_\_



# SKETCH

Project No. 200385N05\*  
Project Name: Quail Glen - Lots 52 and 55

Date: 8 / 10 / 2020  
Sketch No. 2

### FOUNDATION OBSERVATION REPORT

Project: Quail Glen Project No.: \_\_\_\_\_ Date: 8/10/2020

Soils Report Used: \_\_\_\_\_ Structural Plan Used: \_\_\_\_\_

Lot No.: 55 Site Plan Used: \_\_\_\_\_ Revisions: \_\_\_\_\_

Technician: Brandon House Type: Spruce Soil Bearing: 2000 psf

6 Mil Vapor Barrier Observed:  Yes  No Insulation Board Observed:  Yes  No

Permit No.: 0076 Address: 124 Bark way

Wall/Column Footing	Width (in.)		Depth (in.)	
	Required	Measured	Required	Measured

Sketch:

GTA recommends testing bearing capacity of foundation bearing materials and pouring concrete for footings on the same day, if possible. Foundation observations and soil bearing capacity testing are only valid between rain events. If foundation bearing materials are exposed to inclement weather or disturbed due to construction activity, GTA should be contacted to re-evaluate the foundation bearing materials prior to the placement of concrete.

Comments: Areas at the location and elevation test should be capable of supporting the footing as designed.

NOTES: 1. Any undercuts?  Yes  No Describe \_\_\_\_\_  
 2. Undercuts backfilled with:  Stone  Flowable Fill  Concrete  
 3. Re-visit Required?  Yes Reason: \_\_\_\_\_



Project No. 200385N05\*  
Project Name: Quail Glen - Lots 52 and 55

Date: 8 / 10 / 2020  
Photo Page No. 1



Lot 52



Lot 52



Project No. 200385N05\*  
Project Name: Quail Glen - Lots 52 and 55

Date: 8 / 10 / 2020  
Photo Page No. 2



Lot 55



Lot 55