



Project Name: Quail Glen - Lots 33, 34, 57 and 58 Date: 3 / 13 / 2020 GTA Rep: Brandon Parker  
 Project No.: 200385N\*\*\* Client: Ryan Homes Weather: Sunny Temperature: 62 °F

**Location of Work:**

Quail Glen - Harnett Central Road, Angier, North Carolina

**Plans Referenced:**

Ryan Homes Foundation Drawings

**Description of Work:**

Lot 33- 29 Bark Way (Permit No.: 2001-0066)  
 Lot 34- 43 Bark Way (Permit No.: 2001-0061)  
 Lot 57- 23 Bellini Drive (Permit No.: 2001-0063)  
 Lot 58- 31 Bellini Drive (Permit No.: 2001-0065)

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 33, 34, 57, and 58 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.

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 soft soil areas identified at the right wall footing at Lot 58, and middle/interior wall footing at Lot 57 (see 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.

Please note, while performing soil bearing capacity testing on this date, GTA encountered a water line in the open footing excavation at Lot 57 (see sketch). GTA informed the on-site Ryan Home representative Tim Collins, of the water line in the footing excavation. Tim Collins notified GTA that the water line will be removed and re-located, and GTA will be contacted to re-test bearing capacity once remediation is complete.

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.

**Remarks/Deficiencies/Failing Tests:**

Soft soils identified at Lot 58. Water line running parallel in footing excavation at Lot 57.  
 Ryan Homes representative Tim Collins plans to contact GTA to re-test bearing capacity of soils, after the removal of soft soils at Lot 58, and re-locating water line at Lot 57.

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: 8  
 Mileage: 60

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

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





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**DESCRIPTION OF WORK (Continued)**

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 33 and 34.

Utilizing the approved construction drawings, foundation excavations (turn-down footings and grade-beams) 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 33 and 34, 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. 200385N\*\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

Date: 3 / 13 / 2020  
Sketch No. 1

**GTA** EQUINE REGION OFFICE

Project: Quail Glen Project No.: \_\_\_\_\_ Date: 3/13/2020

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

Lot No.: 33 Site Plan Used: \_\_\_\_\_ Revisions: \_\_\_\_\_

Technician: Brandon House Type: \_\_\_\_\_ Soil Bearing: 20000sf

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

Permit No.: 2001-0066 Address: 29 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 tested 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: \_\_\_\_\_



# SKETCH

Project No. 200385N\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

Date: 3 / 13 / 2020  
Sketch No. 2

**FOUNDATION OBSERVATION REPORT**

Project: Quail Glen 43 Bark Way Project No.: \_\_\_\_\_ Date: 3/13/20

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

Lot No.: 34 Site Plan Used: \_\_\_\_\_ Revisions: \_\_\_\_\_

Technician: Brandon House Type: Cedar Soil Bearing: 20000sf

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

Permit No.: 2001-0061 Address: 43 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 tested 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: \_\_\_\_\_



# SKETCH

Project No. 200385N\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

Date: 3 / 13 / 2020  
Sketch No. 3

## FOUNDATION OBSERVATION REPORT

Project: Quail Glen Project No.: \_\_\_\_\_ Date: 3/13/20

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

Lot No.: 57 Site Plan Used: \_\_\_\_\_ Revisions: \_\_\_\_\_

Technician: Brandon House Type: \_\_\_\_\_ Soil Bearing: 20000sf

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

Permit No.: 2001-0063 Address: 23 Bellini Drive

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 tested 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: \_\_\_\_\_



# SKETCH

Project No. 200385N\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

Date: 3 / 13 / 2020  
Sketch No. 4

**FOUNDATION OBSERVATION REPORT**

Project: Quail Glen Project No.: \_\_\_\_\_ Date: 3/13/2020

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

Lot No.: 58 Site Plan Used: \_\_\_\_\_ Revisions: \_\_\_\_\_

Technician: Brandon House Type: \_\_\_\_\_ Soil Bearing: 2000psf

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

Permit No.: 2601-0065 Address: 31 Bellini Drive

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 tested should be capable of supporting the footing as designed.  
Needs Revisit.

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



Project No. 200385N\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

Date: 3 / 13 / 2020  
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Lot 33



Lot 33



Project No. 200385N\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

Date: 3 / 13 / 2020  
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Lot 34



Lot 34





# PHOTO PAGE

Project No. 200385N\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

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Lot 57



Lot 57



Project No. 200385N\*\*\*  
Project Name: Quail Glen - Lots 33, 34, 57 and 58

Date: 3 / 13 / 2020  
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Lot 58



Lot 58