

1

Initial Application Date: 12-6-10

Application # 10-500-25709

CU# _____

COUNTY OF HARNETT RESIDENTIAL LAND USE APPLICATION
Central Permitting 108 E. Front Street, Lillington, NC 27546 Phone: (910) 893-7525 Fax: (910) 893-2793 www.harnett.org/permits

LANDOWNER: Brian S. Frankson & Barbara A. Frankson Mailing Address: 220 Creekstone Dr

City: Benson State: NC Zip: 27504 Contact # 919-413-8350 Email: bfrankson@nc.rr.com

APPLICANT*: SAME Mailing Address: _____

City: _____ State: _____ Zip: _____ Contact # _____ Email: _____

*Please fill out applicant information if different than landowner

CONTACT NAME APPLYING IN OFFICE: SAME Phone # _____

PROPERTY LOCATION: Subdivision: THE BLUFFS @ CROSS LINK Lot #: 6 Lot Size: 14.40

State Road # 1441 State Road Name: CHALYBEATE SPRINGS Map Book&Page: 99 / 190

Parcel: 040664 0092 56 PIN: 0663-88-4679.000

Zoning: PA30 Flood Zone: AE&X Watershed: 14 Deed Book&Page: 2759 1983 Power Company*: PROGRESS

*New structures with Progress Energy as service provider need to supply premise number _____ from Progress Energy.

SPECIFIC DIRECTIONS TO THE PROPERTY FROM LILLINGTON: 401N to Hwy 210 into Angier NC

Left on Hwy 55N then a quick left on Chalybeate Springs Rd ~ 1.5-2 miles

to left on Cross Links Dr. then left on Bluff Ridge Ln. over the bridge

1st Drive on Right

PROPOSED USE:

SFD: (Size 90^{6 1/4} x 73^{4 3/4}) # Bedrooms: 5 # Baths: 4.5 Basement(w/w bath): Garage: Deck: Crawl Space: Slab: Monolithic Slab:

(Is the bonus room finished? yes no w/ a closet? yes no (if yes add in with # bedrooms)

Mod: (Size _____ x _____) # Bedrooms _____ # Baths _____ Basement (w/w bath) _____ Garage: _____ Site Built Deck: _____ On Frame _____ Off Frame _____

(Is the second floor finished? yes no Any other site built additions? yes no

Manufactured Home: _____ SW _____ DW _____ TW (Size _____ x _____) # Bedrooms: _____ Garage: _____ (site built?) Deck: _____ (site built?)

Duplex: (Size _____ x _____) No. Buildings: _____ No. Bedrooms Per Unit: _____

Home Occupation: # Rooms: _____ Use: _____ Hours of Operation: _____ #Employees: _____

Addition/Accessory/Other: (Size _____ x _____) Use: _____ Closets in addition? yes no

Water Supply: County _____ Existing Well _____ New Well (# of dwellings using well _____) *MUST have operable water before final

Sewage Supply: New Septic Tank (Complete Checklist) _____ Existing Septic Tank (Complete Checklist) _____ County Sewer

Does owner of this tract of land, own land that contains a manufactured home within five hundred feet (500') of tract listed above? yes no

Structures (existing or proposed): Single family dwellings: Proposed Manufactured Homes: _____ Other (specify): _____

Required Residential Property Line Setbacks:

Comments: _____

Front Minimum 35 Actual 76.6

Rear 25 340

Closest Side 10 150.5

Sidestreet/corner lot 20 -NA-

Nearest Building on same lot 6 -NA-

If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted. I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

B. Frankson
Signature of Owner or Owner's Agent

Dec 6-10
Date

This application expires 6 months from the initial date if permits have not been issued

A RECORDED SURVEY MAP, RECORDED DEED (OR OFFER TO PURCHASE) AND PLAT ARE REQUIRED WHEN APPLYING FOR LAND USE APPLICATION

PLOT PLAN FOR
BRIAN S. & BARBARA A. FRANKSON
 BLUFF RIDGE LANE
 LOT 6, THE BLUFFS AT CROSS LINK
 BLACK RIVER TOWNSHIP, HARNETT COUNTY, NORTH CAROLINA

PLOT PLAN
 PRELIMINARY PLAT - NOT FOR RECORDATION,
 CONVEYANCE OR SALES

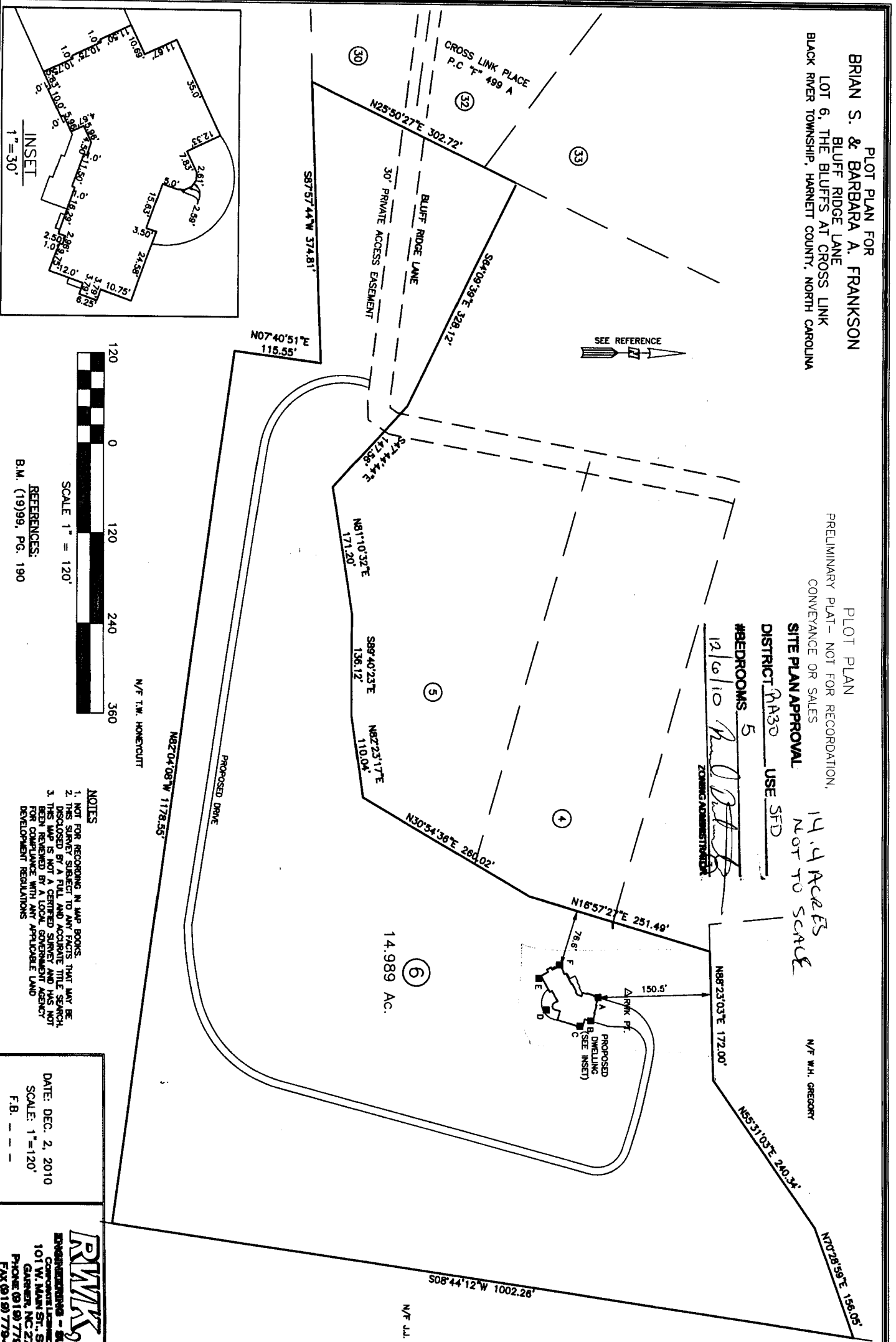
14.4 ACRES
 NOT TO SCALE

N/F W.H. GREGORY

#BEDROOMS 5
 DISTRICT RA30 USE SFD

ZONING ADMINISTRATOR

SEE REFERENCE



SCALE 1" = 120'

REFERENCES:
 B.M. (19)99, PG. 190

- NOTES
1. NOT FOR RECORDING IN MAP BOOKS.
 2. THIS SURVEY SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
 3. THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.

DATE: DEC. 2, 2010

SCALE: 1" = 120'

F.B. - - -

RWK
 ENGINEERING & SURVEY
 CORPORATION
 101 W. MAIN ST., SUITE
 GARDNER, NC 27532
 PHONE (919) 779-4848
 FAX (919) 779-4028

NAME: Brian Frankson

APPLICATION #: 10-500-25709

This application to be filled out when applying for a septic system inspection.

County Health Department Application for Improvement Permit and/or Authorization to Construct

IF THE INFORMATION IN THIS APPLICATION IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN THE IMPROVEMENT PERMIT OR AUTHORIZATION TO CONSTRUCT SHALL BECOME INVALID. The permit is valid for either 60 months or without expiration depending upon documentation submitted. (complete site plan = 60 months; complete plat = without expiration)

910-893-7525 option 1

CONFIRMATION # 113489

Environmental Health New Septic System Code 8 00

- **All property irons must be made visible.** Place "pink property flags" on each corner iron of lot. All property lines must be clearly flagged approximately every 50 feet between corners.
- Place "orange house corner flags" at each corner of the proposed structure. Also flag driveways, garages, decks, out buildings, swimming pools, etc. Place flags per site plan developed at / for Central Permitting.
- Place orange Environmental Health card in location that is easily viewed from road to assist in locating property.
- If property is thickly wooded, Environmental Health requires that you clean out the undergrowth to allow the soil evaluation to be performed. Inspectors should be able to walk freely around site. **Do not grade property.**
- **All lots to be addressed within 10 business days after confirmation. \$25.00 return trip fee may be incurred for failure to uncover outlet lid, mark house corners and property lines, etc. once lot confirmed ready.**
- After preparing proposed site call the voice permitting system at 910-893-7525 option 1 to schedule and use code **800** (after selecting notification permit if multiple permits exist) for Environmental Health inspection. **Please note confirmation number given at end of recording for proof of request.**
- Use Click2Gov or IVR to verify results. Once approved, proceed to Central Permitting for permits.

Environmental Health Existing Tank Inspections Code 800

- Follow above instructions for placing flags and card on property.
- Prepare for inspection by removing soil over **over outlet end** as diagram indicates, and lift lid straight up (if possible) and then close back down. (Unless inspection is for a septic tank in a mobile home park)
- After uncovering outlet end call the voice permitting system at 910-893-7525 option 1 & select notification permit if multiple permits, then use code **800** for Environmental Health inspection. **Please note confirmation number given at end of recording for proof of request.**
- Use Click2Gov or IVR to hear results. Once approved, proceed to Central Permitting for remaining permits.

SEPTIC

If applying for authorization to construct please indicate desired system type(s): can be ranked in order of preference, must choose one.


- Accepted Innovative Conventional Any
- Alternative Other Least expensive option

The applicant shall notify the local health department upon submittal of this application if any of the following apply to the property in question. If the answer is "yes", applicant must attach supporting documentation.

- YES NO *See Map Very Far Away* Does the site contain any Jurisdictional Wetlands?
- YES NO Do you plan to have an irrigation system now or in the future?
- YES NO Does or will the building contain any drains? Please explain. _____
- YES NO Are there any existing wells, springs, waterlines or Wastewater Systems on this property?
- YES NO Is any wastewater going to be generated on the site other than domestic sewage?
- YES NO Is the site subject to approval by any other Public Agency?
- YES NO Are there any Easements or Right of Ways on this property?
- YES NO Does the site contain any existing water, cable, phone or underground electric lines?

If yes please call No Cuts at 800-632-4949 to locate the lines. This is a free service.

I Have Read This Application And Certify That The Information Provided Herein Is True, Complete And Correct. Authorized County And State Officials Are Granted Right Of Entry To Conduct Necessary Inspections To Determine Compliance With Applicable Laws And Rules. I Understand That I Am Solely Responsible For The Proper Identification And Labeling Of All Property Lines And Corners And Making The Site Accessible So That A Complete Site Evaluation Can Be Performed.


PROPERTY OWNERS OR OWNERS LEGAL REPRESENTATIVE SIGNATURE (REQUIRED)

Dec-6-10
DATE



HARNETT COUNTY TAX ID#

04-0664-0092-56

7-1-10 BY K120

FOR REGISTRATION REGISTER OF DEEDS
KIMBERLY S. HARGROVE
HARNETT COUNTY, NC
2010 JUL 01 04:27:20 PM
BK:2759 PG:983-989 FEE:\$34.00
NC REV STAMP:\$142.00
INSTRUMENT # 2010009169

STATE OF NORTH CAROLINA
COUNTY OF HARNETT

WARRANTY DEED FROM
A PARTNERSHIP

Excise Tax: \$ 142.00

Parcel ID Number: 04-0664-0092-56

Prepared By: Pope & Pope, Attorneys at Law, P.A., 4590 Old Buies
Creek Road, Angier, NC 27501 (NO TITLE SEARCH OR CLOSING PERFORMED)

Return to:
7600 LACY GATE EAST - SUITE 200
KNIGHTDALE, NC 27545

THIS DEED made this 18th day of June, 2010, by and between

GRANTOR	GRANTEE
Crosslink Partners, a NC General Partnership, a North Carolina General Partnership c/o Charles Bryan PO Box 818 Angier, NC 27501	Brian S. Frankson and wife, Barbara A. Frankson 220 Creekstone Drive Benson, NC 27504

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

W I T N E S S E T H:

THAT said Grantor, for and in consideration of the sum of TEN and no/hundredths DOLLARS (\$10.00) and other good and valuable considerations, receipt of which is hereby acknowledged, has given, granted, bargained, sold, and conveyed, and by these presents does hereby give, grant, bargain, sell, and convey unto said Grantee, its heirs, successors, administrators, and assigns, all of that certain piece, parcel, or tract of land situate, lying, and being in Black River Township of said County and State, and more particularly described as follows:

Parcel ID No. 04-0664-0092-56; REID No. 51767

BEING all of Lot Number 6 of "The Bluffs at Cross Link" as shown on survey entitled, "Survey for Edward S. Turlington et al" dated May 21, 1998 (revisions [if any] denoted on map) prepared by Stancil & Associates, Registered Land Surveyor, P.A., and recorded in Map Book 99, Page 190, Harnett County Registry.

egress, ingress and regress over and across the above described property as well as constructing, installing, maintaining and repairing general public and private utility services thereon. It is understood that said easement is not to be construed as an easement given to the exclusion of the Grantor(s), their heirs and assigns, or to others later granted a similar right.

Subject to restrictive covenants recorded in Deed Book 1169, Page 34, Harnett County Registry.

Subject to Private Road Maintenance Agreement dated 04/28/99 recorded in Deed Book 1348, Page 149, Harnett County Registry.

For prior deed reference see: Deed Book 2449, Page 205 (Tract No. 3), Harnett County Registry. For further reference see: Deed Book 1087, Page 169, Deed Book 865, Page 67 & Deed Book 922, Page 226, Harnett County Registry.

Pursuant to NCGS §105-317.2 the Grantor herein acknowledges that the real property conveyed herein does / does not include the primary residence of the grantor.

TO HAVE AND TO HOLD the above-described lands and premises, together with all appurtenances thereunto belonging, or in any wise appertaining, unto the Grantee, its heirs, successors, administrators, and assigns forever, but subject always, however, to the limitations set out above.

AND the said Grantor covenants to and with said Grantee, its heirs, successors, administrators, and assigns that it is lawfully seized in fee simple of said lands and premises, and has full right and power to convey the same to the Grantee in fee simple (but subject, however, to the limitations set out above) and that said lands and premises are free from any and all encumbrances, except as set forth above, and that it will, and its heirs, successors, administrators, and assigns shall forever warrant and defend the title to the same lands and premises, together with the appurtenances thereunto appertaining, unto the Grantee, its heirs, successors, administrators, and assigns against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantor has hereunto set its hand and seal and does adopt the printed word "SEAL" beside its name as its lawful seal.

[SEE ATTACHED EXHIBITS FOR SIGNATURE PAGES]

Exhibit _____

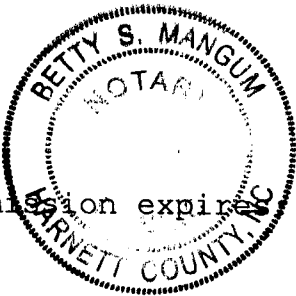
Crosslink Partners, a NC General Partnership

By: ~~James W. Johnson, III~~ (Seal)
James W. Johnson, III
General Partner

STATE OF NORTH CAROLINA
COUNTY OF Harnett

I, a Notary Public of the County and State aforesaid, certify that James W. Johnson, III, an authorized general partner of Crosslink Partners, a NC General Partnership, personally appeared before me this day and acknowledged the due execution of the foregoing instrument on behalf of said Partnership and with the full authority to act thusly on behalf of the same.

WITNESS my hand and notarial stamp or seal this 23 day of June, 2010.



Betty S. Mangum
Notary Public

My commission expires

on 7-31-2014

7-31-2014

Exhibit _____

Crosslink Partners, a NC General Partnership

By and through its General Partners:

HR Health Care Properties, A NC General Partnership

By: Sharon L. Raynor (Seal)
Sharon L. Raynor, General Partner of
HR Health Care Properties, A NC
General Partnership

STATE OF NORTH CAROLINA
COUNTY OF Harnett

I, a Notary Public of the County and State aforesaid, certify that Sharon L. Raynor, the authorized general partner of HR Health Care Properties, a NC General Partnership, a general partner of Crosslink Partners, a NC General Partnership, personally appeared before me this day and acknowledged the due execution of the foregoing instrument on behalf of said Partnership(s) and with the full authority to act thusly on behalf of the same.

WITNESS my hand and notarial stamp or seal this 18th day of June, 2010.

Kimberly J. Honycutt
Notary Public

My commission expires: 4-6-2014

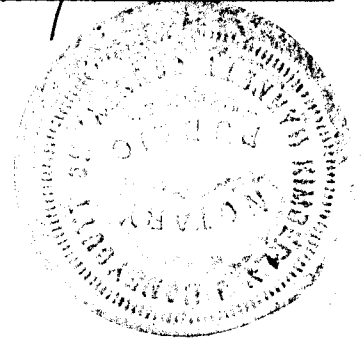


Exhibit _____

Crosslink Partners, a NC General Partnership

By and through its General Partners:

HR Health Care Properties, A NC General Partnership

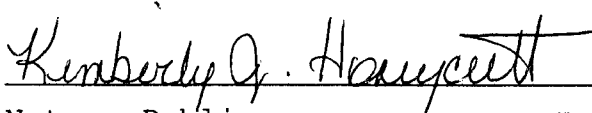
By:  (Seal)

Rhett A. Raynor, General Partner of HR Health Care Properties, A NC General Partnership

STATE OF NORTH CAROLINA
COUNTY OF Hamett

I, a Notary Public of the County and State aforesaid, certify that Rhett A. Raynor, the authorized general partner of HR Health Care Properties, a NC General Partnership, a general partner of Crosslink Partners, a NC General Partnership, personally appeared before me this day and acknowledged the due execution of the foregoing instrument on behalf of said Partnership(s) and with the full authority to act thusly on behalf of the same.

WITNESS my hand and notarial stamp or seal this 18th day of June, 2010.


Notary Public

My commission expires: 4-6-2014

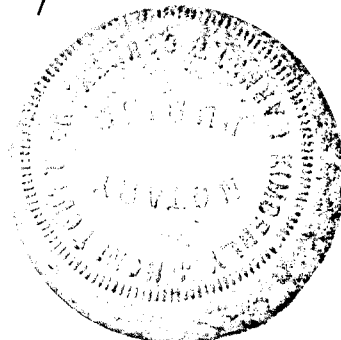


Exhibit _____

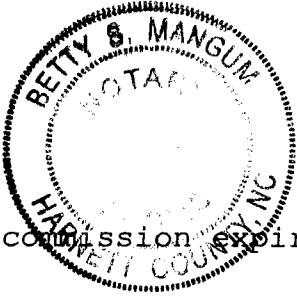
Crosslink Partners, a NC General Partnership

By: *Edward S. Turlington* (Seal)
Edward S. Turlington
General Partner

STATE OF NORTH CAROLINA
COUNTY OF Harnett

I, a Notary Public of the County and State aforesaid, certify that Edward S. Turlington, an authorized general partner of Crosslink Partners, a NC General Partnership, personally appeared before me this day and acknowledged the due execution of the foregoing instrument on behalf of said Partnership and with the full authority to act thusly on behalf of the same.

WITNESS my hand and notarial stamp or seal this 23 day of June, 2010.



Betty S. Mangum
Notary Public

My commission expires: 7-31-2014



GeoTechnologies, Inc.

Geotechnical and Construction Materials Testing Services

June 21, 2010

Brian Frankson
220 Creekstone Drive
Benson, NC 27504

Re: Report of Subsurface Conditions and Literature Search
Lot #6 Bluff Ridge
Harnett County, North Carolina
GeoTechnologies Project No. 1-10-0358-EA

Gentlemen:

GeoTechnologies, Inc. has completed a site reconnaissance, limited subsurface investigation, and review of the Harnett County Soil Survey and the Geologic Map of North Carolina to preliminarily evaluate general suitability of the site for development. This report presents the results of our findings along with published information in the Harnett County Soil Survey.

SITE AND PROJECT INFORMATION

The proposed project will consist of the construction of a single family residential dwelling on an undeveloped approximately 14 acre parcel of land located in Harnett County, North Carolina. The proposed site is located between Angier and Chalybete Springs in Harnett County, North Carolina. The site is an approximately 14 acre, wooded, undeveloped parcel located south of Chalybeate Springs Road. More specifically, the parcel is designated as Lot #6 of Bluff Ridge.

The proposed residence will be a relatively light wood frame structure. We understand that current plans are to construct a daylight basement which will involve cuts of 8 to 10 feet on the front of the proposed residence daylighting out at the back. We are expecting the house to be supported on a combination of wall footings, column footings, and a slab-on-grade. Loads are expected to be relatively light.

AREA GEOLOGY

The site is located along the boundary of the Coastal Plain and the Piedmont Physiographic and Geologic Province of North Carolina. Based on the results of on-site soil test borings, it appears that the near surface soils are residual materials weathered from the parent bedrock. As such, the site actually appears to fall within the Piedmont Geologic Province. The Piedmont Province is characterized by a gently to steeply sloping topography, rolling hills and ridgelines, dissected by moderate to well-developed (mature) dendritic type drainage system and drainage swales, hollows, tributaries, creeks, streams, and rivers. Our review of the Geologic Map of North Carolina indicates that the site is located in a finger of the Raleigh Belt in an area

comprise of biotite gneiss and schists. These materials have weathered to form the residual soil mantle which exists over the underlying bedrock.

SUBSURFACE CONDITIONS

GeoTechnologies evaluated subsurface conditions on the site by completing several soil test borings utilizing a hand auger and dynamic hand cone penetrometer (DCP). The DCP testing involves driving a 1.5 inch diameter conical steel tip into the subgrade soils utilizing a 15 lb. hammer free-falling 20 inches. The number of blows required to drive the tip through successive 1-3/4 inch increments is defined as the penetrometer resistance with depth. The penetrometer test depths were advanced utilizing hand augering techniques

The results of the hand auger testing indicated the presence of near surface topsoil or sand which appears to have washed into the lower areas extending to depths of 4 to 15 inches. These materials were underlain by residual soils that have formed in place by weathering of the parent bedrock. The residual soils consist of stiff to very stiff brown, orange, red, and gray fine sandy micaceous silts intermixed with rock fragments. These materials appear to be weathered from a biotite gneiss and schist. The materials became hard very quickly, and hand auger refusal was encountered at depths of 2.5 to 3.5 feet below existing grade. Penetrometer resistances were generally in the range of 10 to in excess of 15 blows per increment (bpi) within the residual soils. Groundwater was not encountered within the depth of boring.

In addition to completing hand auger borings, GeoTechnologies also reviewed the Harnett County Soil Survey to determine the types of soils which exist on the site. Based on our review of the soil survey, the on-site soils appear to be primarily associated with the Cecil Series. The Cecil soils are typically characterized by a near surface sandy layer underlain by what is described as multi-colored micaceous schists saprolite. This is very descriptive of what was actually found in the on-site soil test borings. The Cecil Soils are described as well drained soils found on upland areas.

FINDINGS

Our findings are based on the results of a site reconnaissance, several shallow soil test borings, our review of the Geologic Map of North Carolina, and a review of the Harnett County Soil Survey.

Foundation Bearing Conditions. The results of the soil borings indicate the presence of stiff to very stiff residual silts containing significant quantities of weathered rock fragments which become progressively harder with depth. The hand auger borings could not be advanced beyond depths of 2.5 to 3.5 feet due to the hardness of the residual soils. These materials will provide excellent bearing conditions for the proposed structure. The foundations could be designed for a maximum allowable bearing pressure of at least 3,000 psf. We expect that settlements for the building will be negligible for foundations bearing within these residual soils.

On the lower end of the house site, where some looser sandy materials that appear to have been washed down were encountered, careful attention should be given to foundations in this area. We recommend that any looser near surface soils be removed and replaced with fill material compacted to 95% of the standard Proctor maximum dry density or that foundations be extended to bear in the stiffer residual soils. The sandy materials do not appear to extend more than approximately 18 inches deep at the test locations. We recommend that a field

inspection be performed at the time that excavations occur to determine if these materials are in place and whether any repairs need to be performed.

For construction of basement walls, we recommend that they be designed to resist a lateral earth pressure based on the assumption that the soils have an equivalent fluid pressure of 50 pcf. This assumes that groundwater will not be encountered above the bottom of the basement level. Based on a review of research information, it does not appear likely that shallow groundwater will exist; however, the hand augers could not be advanced more than 3.5 feet below existing grade and therefore, we were unable to determine specifically what conditions are at deeper depth.

We recommend that the basement be properly waterproofed and that a drainage medium such as Enka drain or Mira drain be placed on the walls and directed to a foundation drain to prevent the build-up of any groundwater behind the wall. The build-up of hydrostatic conditions behind the wall will increase the equivalent fluid pressures behind the wall which could cause buckling and can also lead to water related problems in the basement structure. Sand or gravel backfill could also be used against the wall in lieu of a synthetic drain to accomplish the same purpose. Outside of the drainage medium, we recommend that all backfill be compacted to 95% of the standard Proctor maximum dry density utilizing hand held tamps to prevent overstressing the basement wall. Once all backfill has been placed, the lot should be carefully graded to promote runoff away from the building. All gutter downspouts should be piped away from the structure. Swales should be excavated on the uphill side to divert surface water runoff around the residence.

Literature Review. Based on our review of the soil survey, the on-site soils are associated with the Cecil Series. Based on our review of the published information, those soils described as having a low shrink/swell potential and are not subject to frequent flooding. The literature indicates that the seasonal high groundwater table is deeper than 6 feet and that the depth to bedrock is generally more than 60 inches. The published information indicates that where bedrock is shallower, the materials are typically soft due to weathering. As such, it appears likely that the soils can be excavated with a large excavator. However, we do advise that a test pit be performed in the basement area to determine whether or not the materials can be excavated to the desired depth.

The soil survey described limitations to buildings as slight to moderate with the limitations being associated with steeper sloping areas. Based on our observations of this site, it appears that limitations associated with the soils will be very minimal.

SUMMARY


In summary, the results of our on-site borings, literature search, and site reconnaissance indicate that the site can be developed with the proposed residence. The site exhibits excellent bearing conditions for both shallow foundations and slabs, with the exception of some loose washed in near surface soils which will need to be removed if they are exposed at subgrade level. The soils were very stiff to hard and could not be penetrated beyond a depth of 2.5 to 3.5 utilizing the hand augering tools. Therefore, we do recommend that a test pit be excavated in the area where the deepest basement cut will occur to determine whether or not rock excavation will be a significant problem during construction of the basement.

Brian Frankson
Re: Lot #6 Bluff Ridge
June 21, 2010
Page: 4

GeoTechnologies, Inc. appreciates the opportunity to provide you with our services during this phase of the project. Please contact us if you should have questions regarding this information or if we may be of further assistance.

Sincerely,

GeoTechnologies, Inc.


David L. Israel, P.E.
NC Registration No. 14319



DLI/pr-ebh/lam
Attachments

L:\1100358EA\1100358ea-ReconLiterSub.docx