

Harnett County

INSPECTOR: IVR

DATE 12/11/12

ADDRESS : 473 FIFTY CALIBER DR  
CONTRACTOR : BILL CLARK HOMES LLC  
OWNER : BILL CLARK HOMES  
PARCEL : 03-9597- - -0039- -20-

SUBDIV: PATTONS POINT  
PHONE : (252) 355-5805  
PHONE : (910) 486-2898

APPL NUMBER: 12-50029966 CP NEW RESIDENTIAL (SFD)  
DIRECTIONS : T/S: 10/24/2012 09:37 AM JBROCK ----  
HWY 27 TOWARDS 87 TURN L ON TINGEN RD  
TURN L INTO S/D ON STRIKE EAGLE DR TURN  
L ONTO BUNKERBUSTER LEFT ONTO FIFTY  
CALIBER DR LOT IS POSTED ON LEFT SIDE  
OF THE RD LOT 23

STRUCTURE: 000 000 54X52 3BDR SLAB W/ GARAGE

FLOOD ZONE : FLOOD ZONE X  
# BEDROOMS : 3000000.00  
SEPTIC - EXISTING? : NEW

PROPOSED USE : SFD  
WATER SUPPLY : COUNTY

PERMIT: CPSF 00 CP \* SFD

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
B101 01	11/20/12	FS	R*BLDG FOOTING / TEMP SVC POLE VRU #: 002305776
	11/20/12	AP	T/S: 11/20/2012 04:01 PM FSPIVEY -----
A814 01	11/28/12	FB	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002308849
	11/29/12	AP	T/S: 11/27/2012 12:58 PM DJOHNSON ----- T/S: 11/29/2012 02:31 PM FBURGESS ----- 473 FIFTY CALIBER DR BROADWAY, NC 27505
B103 01	11/28/12	MR	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 002308831
	11/28/12	AP	T/S: 11/27/2012 12:57 PM DJOHNSON ----- T/S: 11/28/2012 02:25 PM MREARIC -----
P309 01	12/06/12	DT	R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 002312841
	12/06/12	AP	T/S: 12/06/2012 10:35 AM DETAYLOR -----
B111 01	12/11/12	TI	R*BLDG SLAB INSP/TEMP SVC POLE VRU #: 002314436

12-11-12 AP-MR

COMMENTS AND NOTES

compaction Density Report Attached

Bill Clark Homes of Fayetteville  
200 E Arlington Blvd  
200 E Arlington Blvd  
Greenville, NC 27858

12/06/2012

Attention : Brian Walker  
Paul Endricks

**RE:** Daily Field Report for 11/30/2012  
Lot 23 Patton's Point, Bill Clark Homes  
BES Project No : 12-0482

Ladies and Gentlemen:

On this date, representative(s) of Building & Earth Sciences, LLP were present to perform construction material testing services at this project site. Our testing and observations for this date include the following:

**FO-1 :** Field Observations made on this date.

- DCP Observation Lot 23
- Project Management Review

Passed  
Passed

**ST-1 :** In place field density testing was performed for Building Pad. The field density testing was performed in general accordance with ASTM D1556, using the results of field one-point Proctors and laboratory Proctors for compaction comparison. One(1) in-place field density test was performed on this date. The testing results indicate that in-place compaction and moisture content at the location and depth tested meet or exceed the specified requirements outlined in the project plans and specifications. For additional details of our testing, please refer to the attached Field Density Test Report.

### Closing

The testing and observations identified above have been reviewed by our project manager. If you have questions regarding this information, please do not hesitate to contact us.

Respectfully Submitted,  
Building & Earth Sciences, LLP

Enclosures : FO-1, ST-1



*Rochael Heath*

Submitted By

## Field Observations Report

Project Name:	Lot 23 Patton's Point, Bill Clark Homes	Project Number:	12-0482
Client Name:	Bill Clark Homes of Fayetteville	Placement#:	FO-1
Contractor:	Bill Clark Homes of Fayetteville	Technician:	Jason Bryant
Monitoring:			

### 1: DCP Observation Lot 23

Passed

Dynamic cone penetrometer testing was performed on this date to determine the consistency of the near surface soils for the support of the planned home.

We understand that H & H Homes is requesting confirmation that the soils will support a stem wall foundation. It appears that 2 to 2.5 feet of structural fill was placed.

A test was performed on the lot to characterize the existing soils at the site.

NEC Average DCP for -0' was \_\_\_ 8 blows; Tan/Orange Silty Sand (Fill Material)  
 \_\_\_\_\_ -1' was \_\_\_ 11 blows; Orange/ Silty Sand (Fill Material)  
 \_\_\_\_\_ -2' was \_\_\_ 11 blows; Tan/Orange Silty Clayey Sand (Fill Material)  
 \_\_\_\_\_ -3' was \_\_\_ 12 blows; Orange Silty Sand (Natural ground encountered)  
 --- Deep End \_\_\_\_\_ -4' was \_\_\_ 13 blows; Brown silty Sand(Natural Ground)

NWC Average DCP for -0' was \_\_\_ 10 blows; Tan/Orange Silty Sand (Fill Material)  
 \_\_\_\_\_ -1' was \_\_\_ 12 blows; Orange/tan Silty Sand (Fill Material)  
 \_\_\_\_\_ -2' was \_\_\_ 12 blows; Orange/Brown Silty Clayey Sand (Fill Material)  
 \_\_\_\_\_ -3' was \_\_\_ 14 blows; Brown Silty Sand (Natural ground)

All results conveyed to Project Manager.

### 2: Project Management Review

Passed

Our client has authorized Building & Earth Sciences to perform an evaluation of the prepared building pad for this project. The structure has a stem wall foundation, and the foundation walls have been backfilled to the slab grade using structural fill soils. It appears that between 2 and 3 feet of structural fill soils have been placed to achieve the slab grade. The intent of our testing was to determine if the newly placed structural fill soils have been compacted to 95% to support the floor slab and the interior lug footings.

Our evaluation included hand rod probing the entire area for consistency, performing hand auger borings with DCPs, and performing in place density tests to confirm compaction. Based upon our hand rod probing, the surface soils are firm and resistant to penetration. At selected locations, hand auger borings were advanced at 2 locations within the backfilled area. At 12-inch increments in the hand auger boring, to a depth of 4 feet, Dynamic Cone Penetrometer (DCP) Testing was performed in accordance with ASTM STP-399. With proper evaluation, DCP Testing can be correlated to both bearing capacity and percent compaction. Based upon our testing, the soils below the surface have been compacted properly at the locations tested.

While on site, our representative also performed in place density testing to confirm compaction of the surface soils. Our testing was performed using the sand cone method in general accordance with ASTM D-1556. Our results were compared to an in-field proctor that was performed in general accordance with ASTM D-698.

*Rockael Heath*  
 Reviewed By

### Field Observations Report

Project Name: **Lot 23 Patton's Point, Bill Clark Homes**

Project Number: **12-0482**

Client Name: **Bill Clark Homes of Fayetteville**

Placement#: **FO-1**

Contractor: **Bill Clark Homes of Fayetteville**

Technician: **Jason Bryant**

Monitoring:

Therefore based upon the results of our testing, the newly placed fill soils have been compacted adequately to provide support for the interior lug foundations and the floor slab.

*Rachael Heath*  
Reviewed By

**Field Density Test Report**

**Project:** Lot 23 Patton's Point, Bill Clark Homes      **Client:** Bill Clark Homes of Fayetteville  
 12-0482      200 E Arlington Blvd  
**Technician:** Jason Bryant      200 E Arlington Blvd  
 Greenville, NC 27858

**Distribution List:** bwalker@billclarkhomes.com  
 pendricks@billclarkhomes.com

**Nuclear Gauge ID :**

Test No.	Re-Test Stamp	Dry Density (pcf)	Moisture Content % ASTM D 4959	Maximum Dry Density (pcf)	Optimum Moisture Content %	Compaction %	Required Compaction %	USCS	Proctor Type	ASTM Method	Location of Tests	Depth
1		115.3	8.4	119	9	97%	95%	SM	ASTM D-698	ASTM D1556	Building Pad : SW corner of Pad L2N, 17E of SW corner :	FSG

*Reviewed By*  
**Radhael Heath**