

# Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

521412

ISSUED TO: Butenen Civil Surveying KB Homes Carolina PROPERTY LOCATION: 145 Allwood Dr. (Christian Ct. rd.)  
 SUBDIVISION Mason Pointe PH 2 LOT # 6  
 NEW  REPAIR  EXPANSION  Site Improvements required prior to Construction Authorization Issuance:  
 Type of Structure: 5'x7' Mono  
 Proposed Wastewater System Type: 25% Reduction Sys.  
 Projected Daily Flow: 480 GPD  
 Number of bedrooms: 4 Number of Occupants: 8 max  
 Basement  Yes  No  
 Pump Required:  Yes  No  May be required based on final location and elevations of facilities  
 Type of Water Supply:  Community  Public  Well Distance from well NA feet Permit valid for:  Five years  
 Permit conditions: \_\_\_\_\_  No expiration

Authorized State Agent: [Signature] Date: 10/28/2019 SEE ATTACHED SITE SKETCH  
 The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

## Construction Authorization

(Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Butenen Civil Surveying KB Homes Carolina PROPERTY LOCATION: 145 Allwood Dr. (Christian Ct. rd.)  
 SUBDIVISION Mason Pointe PH 2 LOT # 6  
 Facility Type: 50'x70' 5'x7'  New  Expansion  Repair  
 Basement?  Yes  No Basement Fixtures?  Yes  No  
 Type of Wastewater System\*\* 25% Reduction System (Initial) Wastewater Flow: 480 GPD  
 (See note below, if applicable )  
25% reduction sys. (Repair)  
 Installation Requirements/Conditions  
 Septic Tank Size 1000 gallons Number of trenches 3  
 Pump Tank Size 1000 gallons Exact length of each trench 65, 110, 175 feet Trench Spacing: 9 Feet on Center  
 Trenches shall be installed on contour at a Soil Cover: 6 inches  
 Maximum Trench Depth of: 18 inches (Maximum soil cover shall not exceed  
 (Trench bottoms shall be level to +/-1/4" 36" above the trench bottom)  
 in all directions)  
 Pump Requirements: \_\_\_\_\_ ft. TDH vs. \_\_\_\_\_ GPM Aggregate Depth: NA inches below pipe  
 Conditions: Pump to Pressure Manifold [Specs attached] NA inches above pipe  
NA inches total

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.  
 NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

\*\*If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.  
 Owner/Legal Representative Signature: \_\_\_\_\_ Date: \_\_\_\_\_

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent: [Signature] Date: 10/28/2019  
ANDREW CURRY Construction Authorization Expiration Date: 10/28/2024



**Mason Point Lot 6**

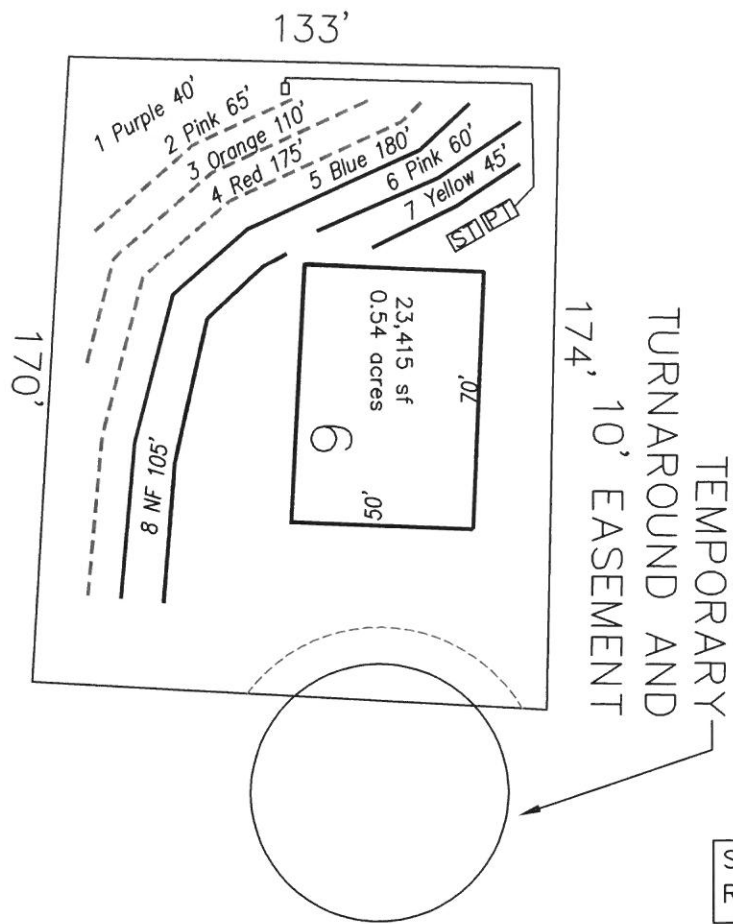
|                        |              |                 |                    |               |                  |                 |                       |                    |                  |
|------------------------|--------------|-----------------|--------------------|---------------|------------------|-----------------|-----------------------|--------------------|------------------|
| <b>Bench Mark</b>      | is = 100.00  |                 | Location of BM EIP |               |                  |                 | <b>Elevation Head</b> |                    | 5.40             |
| <b>Pump tank elev.</b> | 100.00       |                 | <b>Pump elev.</b>  |               | 94.60            |                 | <b>Manifold elev.</b> |                    | 98.20            |
| <b>line</b>            | <b>color</b> | <b>rod read</b> | <b>Elevation</b>   | <b>length</b> | <b>hole size</b> | <b>flow/tap</b> | <b>gal/day</b>        | <b>trench area</b> | <b>LINE LTAR</b> |
| 2                      | Pink         | 2.80            | 97.20              | 65            | 1/2in SCH 80     | 5.48            | 81.24                 | 195                | 0.4166           |
| 3                      | Orange       | 3.40            | 96.60              | 110           | 3/4in SCH 80     | 10.1            | 149.72                | 330                | 0.4537           |
| 4                      | Red          | 4.10            | 95.90              | 175           | 1in SCH 80       | 16.8            | 249.04                | 525                | 0.4744           |

|              |               |            |                    |              |                            |               |
|--------------|---------------|------------|--------------------|--------------|----------------------------|---------------|
| <b>total</b> | <b>feet =</b> | <b>350</b> | <b>gal/min =</b>   | <b>32.38</b> | <b>LTAR =</b>              | <b>0.3500</b> |
|              |               |            |                    |              | <b>LTAR + %5</b>           | <b>0.3675</b> |
|              |               |            | <b>Des. Flow</b>   | <b>480</b>   | <b>(ltar W/ INOV)</b>      | <b>0.4667</b> |
|              |               |            | <b>Pump Run=</b>   | <b>14.82</b> | <b>(ltar W/ INOV + 5%)</b> | <b>0.4900</b> |
|              |               |            | <b>Tank Gal/IN</b> | <b>19.65</b> |                            |               |

**Mason Point Lot 6  
Repair**

|                        |              |                 |                    |               |                  |                 |                       |                    |                  |
|------------------------|--------------|-----------------|--------------------|---------------|------------------|-----------------|-----------------------|--------------------|------------------|
| <b>Bench Mark</b>      | is = 100.00  |                 | Location of BM EIP |               |                  |                 | <b>Elevation Head</b> |                    | 6                |
| <b>Pump tank elev.</b> | 100          |                 | <b>Pump elev.</b>  |               | 95               |                 | <b>Manifold elev.</b> |                    | 101              |
| <b>line</b>            | <b>color</b> | <b>rod read</b> | <b>Elevation</b>   | <b>length</b> | <b>hole size</b> | <b>flow/tap</b> | <b>gal/day</b>        | <b>trench area</b> | <b>LINE LTAR</b> |
| 1                      |              |                 | 100.00             |               | 1/2in SCH 80     | 5.48            | 120.00                | 0                  | #DIV/0!          |
| 2                      |              |                 | 100.00             |               | 1/2in SCH 40     | 5.48            | 120.00                | 0                  | #DIV/0!          |
| 3                      |              |                 | 100.00             |               | 1/2in SCH 80     | 5.48            | 120.00                | 0                  | #DIV/0!          |
| 4                      |              |                 | 100.00             |               | 1/2in SCH 80     | 5.48            | 120.00                | 0                  | #DIV/0!          |

|              |               |          |                    |              |                            |               |
|--------------|---------------|----------|--------------------|--------------|----------------------------|---------------|
| <b>total</b> | <b>feet =</b> | <b>0</b> | <b>gal/min =</b>   | <b>21.92</b> | <b>LTAR =</b>              | <b>0.35</b>   |
|              |               |          |                    |              | <b>LTAR + %5</b>           | <b>0.3675</b> |
|              |               |          | <b>Des. Flow</b>   | <b>480</b>   | <b>(ltar W/ INOV)</b>      | <b>0.4667</b> |
|              |               |          | <b>Pump Run=</b>   | <b>21.90</b> | <b>(ltar W/ INOV + 5%)</b> | <b>0.4900</b> |
|              |               |          | <b>Tank Gal/IN</b> | <b>19.65</b> |                            |               |



System: - - - - -  
 Repair: ————

- \*Keep tanks and drain lines 10' from property lines.
- \*Not a survey.
- \*Not a guarantee of a septic permit.
- \*Keep supply lines >5' from property lines.
- \*Some lines are flagged longer in the field than lengths indicate.
- \*No grading septic area.

GRAPHIC SCALE  
 1" = 50'



System: Pressure Manifold  
 Lines: 2-4, (350')  
 Accepted Status System  
 0.35 Soil LTAR  
 18" Trench Bottom

Repair: Pressure Manifold  
 Lines: 5-8, (390')  
 Accepted Status System  
 0.35 Soil LTAR  
 18" Trench Bottom



Central Carolina Soil Consulting, PLLC  
 1900 South Main Street, Suite 110  
 Wake Forest, North Carolina 27587  
 Phone (919)569-6704 Fax (919)569-6703

4-Bedroom Septic Layout  
 Lot 6, Masons Pointe Subdivision  
 Harnett County, North Carolina

Job# : 2031  
 Drawn By : AH & TMB  
 Date : 04/22/2019  
 Revision: 10/23/2019