



CARTERET COUNTY HEALTH DEPARTMENT

Environmental Health Division
3820 A Bridges Street
Morehead City, NC 28557
Phone (252) 728-8499 Fax (252) 222-7753



WASTEWATER COLLECTION, TREATMENT AND SUBSURFACE DISPOSAL SYSTEM OPERATION PERMIT

In accordance with the provisions of Article 11 of Chapter 130A, General Statutes of North Carolina, 15A NCAC 18A .1900 et seq., and other applicable Laws and Rules as amended,

PERMISSION IS HEREBY GRANTED TO

MARK'S VACATION HOMES,LLC
V-10-15-250

For the

Continued operation of a 960 GPD wastewater collection, treatment and disposal system consisting of:

- 1 @3000 Gallon Septic tank (Page STB)
- 1 @ 1500 Gallon Recirculating Tank (Page Recirculating Tank)
- 1 @ 1500 gallon pump tank (Page)
- AdvanTex Treatment Systems consisting of 2 AX20 Pods
- 100% repair area.
- MVP -AXB2-USVA dual pump control panel with alarms
- Low Pressure Pipe System with 18 @33' LPP bed system
- One Myers ME 50 Submersible Sewage Pump
- One Orenco Systems Biotube Pump System at offsite location
- As built plans and specifications and technical manual submitted and prepared by S & ME, Inc are on file at the Carteret County Health Department

To serve: **Maritime Place Lot 25; 449 Maritime Place (PIDN 6344.08.99.7847) Improvement # A-11665**

with no discharge of wastes to the ground surface or surface waters pursuant to 15A NCAC 18A section .1900 et seq. -Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal [Hereinafter "Laws and Rules "] and in conformity with the project plans, specifications, and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources and the Carteret County Health Department (LHD) are considered part of this permit.

Facilities to be served: 8 bedroom single family home to occupy a total of 16 people (2 persons per bedroom)

The system is classified as a TYPE 5 system in accordance with 15 NCAC 18A .1961

The Owner shall be subject to the following conditions and limitations:

I. GENERAL CONDITIONS

1. This permit shall be effective only with respect to the nature and volume of the waste specified and for the type and size facility specified.
2. The Owner shall be subject to all applicable provisions of Article 11 of Chapter 130A of the General Statutes and 15A NCAC 18A section .1900 et seq. - Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal.
3. No addition, expansion, alteration, or repair (other than maintenance) shall be made to the system without first obtaining an Authorization to Construct from the Carteret County Health Department in accordance with NCGS 130A-336. Replacement of components shall be noted on inspection reports.
4. This permit may be suspended or revoked if the system is found to be out of compliance with the permit conditions.
5. Failure to abide by the conditions and limitations contained in this permit may subject the Owner to enforcement action in accordance with NCGS 130A-18, 130A-22C, 130A-23, and/or 130A-25.
6. The issuance of this permit does not exempt the Owner from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies or commissions which have jurisdiction.
7. A repair area as designated herein, with setbacks, shall be maintained in an undisturbed state.
8. The Carteret County Health Department may amend, revise, suspend or revoke this permit including revising frequencies in the Schedule of Operation and Maintenance based on monitoring data, water usage, system performance, or facility use.
9. It shall be the responsibility of the Owner or the Owner's Agent to notify any subsequent owners of the requirements contained within this permit, including the requirement to contract with a management entity.
10. The drainfield shall be maintained to shed surface water.

II. PERFORMANCE STANDARDS

1. This system shall meet the Treatment Standard II (TS-II) standards. TS-II are designed, installed and operated to meet the following standards:
 - a. Carbonaceous Biochemical oxygen Demand, 5-day (CBOD₅) <10 mg/l.
 - b. Ammonia-nitrogen < 10 mg/l
 - c. Either a 50% reduction of total nitrogen (Total Kjeldahl Nitrogen +NO_x-N) concentration in the wastewater or a total nitrogen concentration in the treated effluent < 15 mg/l (or as described in the innovative approval IWWS 2004-3).
2. In the event of failure of the system to perform satisfactorily, as determined by the LHD, the owner shall take immediate corrective actions. Including actions as may be required by the LHD, such as the construction of additional or replacement wastewater treatment or disposal components, upon receipt of an Authorization to Construct.

3. The septage generated from this system shall be transported and disposed of in accordance with Article 9 of Chapter 130A 15A NCAC 13B et seq. and in a manner approved by the North Carolina Division of Solid Waste Management. The Owner shall specify the approved hauler and disposal sites and submits this information in writing to this office within 30 days. The LHD shall be notified of any changes in this information.

5. Adequate measures shall be taken to divert and maintain storm water from the system and nitrification field areas.

6. Untreated or partially treated wastewater shall not be discharged or bypassed from the facility or system.

7. The issuance of this permit shall not relieve the Owner of the responsibility for damages to surface or groundwaters resulting from the operation of this facility.

III. GENERAL OPERATION AND MAINTENANCE REQUIREMENTS

1. The system shall be properly maintained and operated at all times in accordance with the Laws and Rules, and with the Schedule of Operation and Maintenance of this permit.

2. The application rates to the nitrification field shall not exceed the Long Term Acceptance Rate.

3. No traffic, vehicles, or excavation shall be allowed on the system nitrification field or repair area.

IV. *AdvanTex Treatment System* OPERATION, MAINTENANCE AND TESTING (from IWWS state approval. The Innovative Wastewater System Approval is attached to this permit and is considered a part of this permit.)

1. For additional information see Operation & Maintenance Manual AdvanTex Treatment Systems, Rev. 2.0 1/02

2. All Orenco AdvanTex Treatment Systems require operation and maintenance. An operation and maintenance agreement with an NC certified subsurface operator must be in place. This operator must also be authorized by Orenco Systems, Inc. to operate the AdvanTex Treatment System.

3. System classification, management and inspection shall be in accordance with Rule. 1961. AdvanTex Treatment Systems shall be classified at a minimum as a Type Va system according to Table V(a) of Rule. 1961(b).

4. System Inspections: Both the local health department and the Operator-in-Responsible Charge (ORC) must conduct monitoring inspections of AdvanTex Treatment Systems at a minimum frequency as specified in Table V of Rule .1961 (b) and the Operation Permit, and as specified in the Innovative Wastewater System Approval.

5. At each AdvanTex Treatment Systems inspection the ORC shall, at a minimum, observe, monitor, and record:

- a. wastewater level in the tanks,
- b. the recirculation tank Biotube® (effluent filter) Pump Vault for clogging,
- c. watertightness of tanks, risers and pipe connections at tanks,
- d. operation of pumps, floats, valves, electrical controls and alarms,

- e. pumping frequency from pump impulse counters and elapsed run time meters,
- f. The AdvanTex Treatment System for any structural damage, accessibility, adequate ventilation, excess odors, insect infestations, vegetative growth over the drainfield, the drainfield area for surfacing effluent, and a sample of AdvanTex Treatment System effluent collected from the sampling point to check for effluent clarity and odor.
- g. The pump cycle and run timer meters and any water meter readings.

6. At least twice per year the ORC shall, at a minimum, measure and report to the health department:

- a. sludge and scum levels in the septic tank,
- b. sludge level and grease presence in the pump tank,
- c. drainfield pump delivery rate (drawdown test), and
- d. drainfield dosing volume and measure or calculate average pump run time.

7. The ORC shall also conduct other additional observations, measurements, monitoring, and maintenance activities as specified in the Operation Permit and as recommended by the manufacturer.

8. Effluent Sampling and Test Protocol:

AdvanTex Treatment System effluent samples shall be collected by the ORC. These samples shall be taken as specified in the Innovative Wastewater System Approval.

- a. Samples shall be taken from the pump tank sample tap. The sample shall not commence until at least 30 seconds of continuous discharge through the sample tap has been completed
- b. All systems shall be tested for effluent CBOD₅, NH₃-N, TKN, NO_x-N, yearly.
- c. Reporting shall be done yearly for all data.
- d. All samples shall be obtained, preserved, and analyzed in accordance with 40 CFR 136. A state certified wastewater laboratory shall analyze samples for the treatment performance standards specified in Section B.
- e. When samples do not meet treatment standards specified in Section B, the system shall be resampled two more times within the next 60 days with samples collected no less than 48 hours apart. The average system performance shall then be calculated as the arithmetic mean of results from the three samples. System maintenance or repair shall be required whenever the average system performance as calculated above does not meet the applicable treatment standards specified in Section B.
- f. All samples must be taken using the USEPA's Good Laboratory Practices standards (40CFR 160). All samples must be analyzed using a state certified water quality laboratory, and complete chain of custody must be maintained.
- g. All samples must be preserved, transported and tested while strictly adhering to USEPA approved "Standard Methods for the Examination of Water and Wastewater", APHA, 19th ed. In addition, regardless of transport time, all CBOD samples must be submerged in water with a temperature $\square 4^{\circ} \square C$ immediately, and all nitrogen samples must immediately be preserved with enough sulfuric acid (H₂SO₄) to reduce the pH to 4 standard units or less. Special care to prevent contamination for samples collected for fecal analysis shall be practiced.

9. Notification and Performance of Maintenance and Repairs

- a. The ORC shall alert the system owner in a timely fashion of needed maintenance or repair activities including, but not limited to, landscaping, tank sealing, tank pumping, pipe or control system repairs, media replacement, and adjustments to any other system component. The ORC shall notify the system owner, the AdvanTex® Dealer, and the local health department whenever the pump delivery rate efficiency or average pump run time are not within 25% of initial measurements conducted prior to system startup.

- b. The ORC shall keep the Biotube® (effluent filter) Pump Vault cleaned and in proper operating condition, as per manufacturer's recommendations. All cleaning and maintenance shall be reported.
- c. System troubleshooting and needed maintenance must be provided to maintain the pump delivery rate and average pump run time within 25% of initial measurements conducted prior to system startup.
- d. The septic tank will be pumped as needed upon recommendation of the ORC. Please refer to page 13 of the AdvanTex Treatment System Operation & Maintenance Manual for preferred pumping intervals. However, at a minimum, the septic tank will be pumped whenever the solids level exceeds 25% of the tank's total liquid working capacity or the scum layer is more than 4 inches thick.
- e. The ORC shall notify the local Health Department and system owner in writing whenever repairs are required. All maintenance activities shall also be logged and recorded in the ORC reports provided to the local health department.

10. Reporting

- a. After each required ORC system inspection, the ORC shall provide a completed written report to the system owner and the local health department shall receive reports annually. At a minimum this report must specify:
 - (1) the date and time of inspection,
 - (2) system operating conditions observed according to H.5, above,
 - (3) system operating conditions measured according to H.6 and H.7 above,
 - (4) results from any laboratory analysis of any effluent samples,
 - (5) maintenance activities performed since the last inspection report,
 - (6) an assessment of overall system performance, and
 - (7) a determination of whether the system is malfunctioning, and the specific nature of the malfunction.
- b. Reporting. The operator shall report to the Carteret County Department of Health, Division of Environmental Health annually as described in the innovative approval.

V. ROUTINE MAINTENANCE SCHEDULE (from as built plans and specifications)

MAINTENANCE:

SEPTIC TANK:

- | | |
|------------------------------------|---|
| Inspect and clean Effluent filters | Twice yearly or when final septic tank is pumped |
| Skim tanks | By operator or engineer's recommendation |
| Inspect sludge levels | yearly |
| Pump Septage | by Operator or Engineer's recommendation or when solids level is greater than one quarter to one third tank liquid depths |

PUMP TANK:

- | | |
|-----------------------|---|
| Inspect sludge levels | Yearly |
| Skim tank | By operator's recommendation |
| Pump septage | by Operator or Engineer's recommendation or when solids level is greater than one quarter to one third tank liquid depths |

DRAINFIELDS:

- | | |
|-------------------|--------------|
| Visual inspection | Twice yearly |
|-------------------|--------------|

Flush laterals and set pressure head Yearly
Pressure jet and vacuum laterals By operator's recommendation

TESTING/REPORTING:

Pump down test on wastewater system Yearly
Event counters and timers recorded and tested Twice yearly

AdvanTex AX20 TREATMENT SYSTEM:

Visual inspection Two times a year
The operator shall complete all Orenco and regularly required maintenance.

The AdvanTex System is classified as a Type Va and requires a private certified operator. The operator shall be a certified subsurface operator and shall be authorized by Orenco Systems, Inc. and the equipment dealer.

These are the minimum requirements. The designated operator must regularly inspect the system components and report or repair as necessary. This engineered wastewater system is classified as a Type V system and will require management by a private certified operator.

TANKS AND DRAINFIELD TO BE PROTECTED FROM VEHICULAR TRAFFIC BY 6 X 6 POST FENCE.

NO SPLICES OR JUNCTION BOXES MAY BE PLACED IN ANY TANK OR RISER.

SET CONTROL PANEL HEIGHT AT LEAST 12 IN. ABOVE GRADE BUT NOT LOWER THAN 9.0 FT M.S.L.

RUN UV ELECTRICAL LINE IN UL LISTED 600 VOLT ELECTRICAL CONDUIT

VI. MONITORING AND REPORTING REQUIREMENTS

1. Any monitoring necessary to protect public health and the environment will be established and an acceptable sampling reporting schedule shall be followed in accordance with Table V (b) of Rule .1961(b) of Laws and Rules and this permit.
2. One copy of all monitoring data and maintenance records signed by the Owner and Operator shall be submitted on or before the last day of the month following each twelve month period after permit issuance to the following address:

CARTERET COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
3820 Bridges St
Morehead City, NC 28557

Monitoring and inspection data shall be submitted on forms approved by the Carteret County Health Department.

3. The ORC shall be responsible for keeping a record of inspections including at least the following: dates, duration's, and times of site visits, observations made, procedures carried out, any maintenance, repairs, or corrective actions taken, meter readings, measurements, and drawdown rates. This record

shall be maintained by the ORC during the term of this permit and shall be made available to the LHD upon request.

4. A record shall be maintained of all septage removed from the facility. The record shall include the name of the hauler, permit authorizing the disposal or a letter from the treatment facility agreeing to accept the septage, date the septage was hauled, and volume of the septage removed.

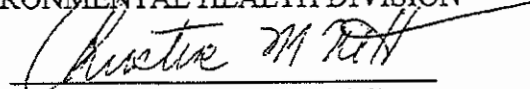
5. The Owner/Operator shall report by telephone to the Carteret County Health Department [telephone # 728-8499] as soon as possible, but in no case more than 48 hours upon finding the system is malfunctioning by surfacing or back-up of effluent, discharging directly into groundwater or surface waters, or when repairs are needed in accordance with NCGS 130A-334(9)(a) and Rule .1961(c) of Laws and Rules.

VII. SUPPORTING DOCUMENTS

The following documents are considered part of this permit:

1. The application for Improvement Permit and the improvement permit issued 05/15/06
2. The Construction authorization issued 5/15/06
3. Article 11 of Chapter 130A of the General Statutes of N.C. entitled "Wastewater Systems"
4. Rules for Sewage Treatment and Disposal Systems 15ANCAC 18A .1900.
5. Plans and Specifications dated approved January 8, 2008
6. The as-built plans and specifications and technical manual submitted and prepared by S & ME, LLC
7. The Innovative Wastewater Approval.
8. Permit issued this the 26th day of October, 2015 and expires on October 26, 2020.

CARTERET COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION



Environmental Health Specialist
Carteret County Health Department



CARTERET COUNTY HEALTH DEPARTMENT

Environmental Health Division
3820 A Bridges Street
Morehead City, NC 28557
Phone (252) 728-8499 Fax (252) 222-7753



October 27, 2015

Marks Vacation Homes, LLC
Steven Marks
4653 N. Ridge Drive
Akron, OH 44333

Subject: Issuance of Operations Permit V-10-15-250 for the operation and maintenance of a wastewater collection, treatment, and disposal system to serve :**Maritime Place Lot 25; 449 Maritime Place (PIDN 6344.08.99.7847)**

Dear Mr. Marks;

Our records indicate that **449 Maritime Place** is served by a Type V wastewater system, as determined from Table V(b) of the North Carolina Administrative Rules for Sewage Treatment and Disposal Systems, Rule .1961 (b), Title 15A, Subchapter 18A of the North Carolina Administrative Code. In accordance with Rule .1961(b), effective July 1, 1992, you must contract with a private subsurface sewage system operator or a Public Management Entity with a certified subsurface system operator to operate and maintain this system.

In accordance with G.S. 130A-337 and 15A NCAC 18A .1937, **Operations Permit V-10-15-250 dated October 26, 2015 to Marks Vacation Homes LLC** is hereby issued.

This permit shall be subject to the conditions and limitations as specified therein. Please pay particular attention to the operation, maintenance, and monitoring requirements in this permit.

You have the right to an informal review of the requirements of this Operation Permit. You may request an informal review by the environmental health program specialist. You may also request an informal review by the NC Department of Health and Human Services. A request for an informal review must be made in writing to the Carteret County Health Department.

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 6714 Mail Center, Raleigh, NC 27699-6714. To get a copy of a petition form, you may write the Office of Administrative Hearings or call the office at (919) 431-3000 or from the OAH website at <http://www.ncoah.com/forms.html>. The petition for a contested case hearing must be filed in accordance with the provision of North Carolina General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. NC General Statute 130A-335 (g) provides that your hearing would be held in the county where your property is located.

Please note: If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **within 30 days of the date of this letter**. The date of this letter is October 27, 2015. Meeting the 30 day deadline is critical to your right to a formal appeal. Beginning a formal

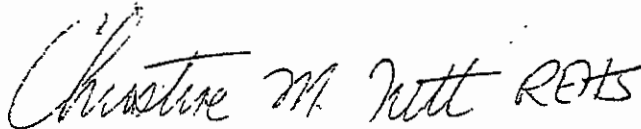
appeal with 30 days will not interfere with any informal review that you might request. Do not wait for the outcome of any informal review if you wish to file a formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, you are required by law (NC General Statute 150B-23) to send a copy of your petition to the **North Carolina Department of Health and Human Services, Division of Public Health. Send the copy to Office of General Counsel, NC Department of Health and Human Services, 2001 Mail Service Center, Raleigh, NC 27699-2001.** Do not send the copy of the petition to your local health department. Sending a copy to your local health department will not satisfy the legal requirement in NC General Statute 150B-23 that you send a copy to the Office of General Counsel, North Carolina Department of Health and Human Services.

This permit supercedes all previous permits which have been issued for this system.

If you need additional information concerning this matter, please contact the Environmental Health Division, Carteret County Health Department at (252)-728-8499

Sincerely,



Christine M. Nitt REHS
Environmental Health Program Specialist
Large On-Site Wastewater and Inspections Program

Enclosures:

Operation Permit V-10-15-250

CC; Steven Berkowitz, NCDHHS
AQWA, ORC



CARTERET COUNTY HEALTH DEPARTMENT
RE-PERMITTING APPLICATION FOR TYPE V AND VI
WASTEWATER SYSTEMS
Carteret County Environmental Health
3820-A Bridges Street
Morehead City, NC 28557
(252)728-8499

RECEIVED
OCT 12 2015
C.C. ENVIRONMENTAL
HEALTH

Carteret County Health Department Permit Number V-03-09-250 (if known)
PLEASE PRINT OR TYPE

1. Mailing address of applicant/permittee:

Facility Name _____
Owner Name Steven Marks / Marks Vacation Homes, LLC
Facility Contact Person _____
Address 4653 N. Ridge Drive
City Akron, OH 44333
Telephone Number 330-289-2114
Email Address smarks@mainstreetgourmet.com

HOA's and Utility's shall provide a list of current board officers, include addresses of officers requiring copies of correspondence.

2. Location of facility:

Street Address or State Road 449 Maritime Place
City/Zip Code Pine Knoll Shores, NC 28512

Is the property on which the collection system, lift stations, wastewater treatment system, disposal area under Control (easements) or ownership of the Owner listed above? Yes No

3. Wastewater treatment system:

Design flow of facility 960 GPD

Is this an Industrial Process Wastewater System? Yes No

Are groundwater monitoring wells on site? Yes No

The wastewater treatment facility currently serves (provide description, i.e. #units with #bedrooms, #employees, Shopping center units, #houses with #bedrooms, swimming pool bath house, restaurant and/or lounge (include #seats), or foodstand:

Please note any changes that have occurred since the last permit was issued: none known

Is system currently under construction? Yes No

Are repairs or new construction proposed? Yes No If yes, describe: _____

4. Certified Operator

Name AQWA
Mailing Address 2604 Willis Ct City/Zip Code Wilson, NC 27896
Phone/Cell/Pager 919-252-243-7693 Email tsanders@agwa.net
Current contract included with application Yes No

Copy of a current contract with a certified operator required prior to permit renewal.

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate.

Printed Name of Person Signing Steven L. Marks

Signature of Applicant [Handwritten Signature]

Manager

Title

10-5-15

Date Signed

Name: McCann, Brian C. + Stacy

Location: 11 Autumn Ln
Lot 35 Pt II

Environmental Health Division
Carteret County Health Department
Morehead City, NC 28557 • (252) 728-8499

Authorization for Wastewater System Construction

(NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED
UNTIL OPERATION PERMIT HAS BEEN ISSUED)

Page 1 of 3 I.P. 0-11665

G.S. 130a-336
Valid for Five (5) years from date of issuance
Subject to revocation if site plans or if
site is altered or intended use is changed.

Date: 5-15-16 M.E. Classification: TA

- New Construction
- Repair
- Existing System

Authorization for Wastewater System Construction by:
Brian C. McCann, P.E.
Environmental Health Specialist

Name: McLann Bridge - Stacy

Location: Maple R. - Lot 25 Pt. II

Environmental Health Division
Carteret County Health Department
Morehead City, NC 28557 • (252) 728-8499

A-11665

Page 1 of 3

Improvement Permit

- * NO BUILDING PERMIT SHALL BE ISSUED UNTIL AUTHORIZATION TO CONSTRUCT IS ISSUED.
- * NO AUTHORIZATION TO CONSTRUCT SHALL BE ISSUED UNTIL MODIFICATION (IF REQUIRED) IS APPROVED.

G.S. 130a-336
Improvement Permit
Subject to revocation if site plans or if
site is altered or intended use is changed.

Date: 5-15-06 M.E. Classification: VA

Permit valid for 5 years from date of issue

- New Construction
- Repair
- Existing System

Improvements Permit by:
[Signature]
Environmental Health Specialist

* Engineered Retreatment
Plans required.

SITE PLAN

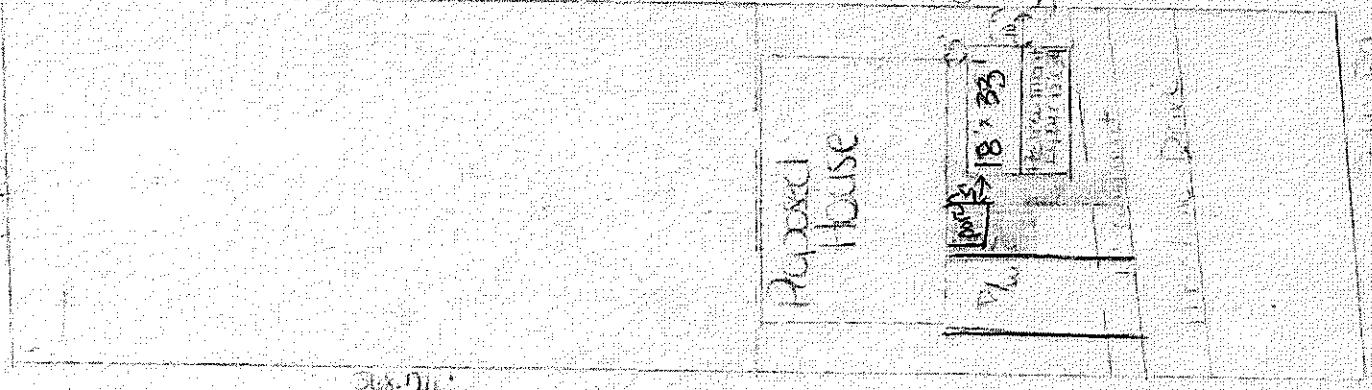
* Sewer Authority
 September 2008
 plant approved through the
 John Deere process with
 same specs. Dated 11/25/07
 approved by CHD
 1/3/08.

* Do not park, drive, or build over
 any part of
 septic system or repair area.
 - Septic tank is 10' x 10' and
 pump tank is 10' x 10' in
 area of the house.

* The septic system is located
 under the house. It is
 important to maintain
 the system and to
 keep any part of
 septic system or repair
 area.

* Septic system is located
 to be installed with a
 10' x 10' tank with a
 10' x 10' pump tank. The
 system is to be installed
 in a 15' x 30' area.
 system repair

* The septic system is to be installed
 in a 15' x 30' area. The
 system is to be installed
 in a 15' x 30' area. The
 system is to be installed
 in a 15' x 30' area.



ELECTRICAL PERMIT REQUIRED: YES () NO ()
 OWNER: John Deere
 ADDRESS: 501 W. 10th St. Cary, NC 27581
 TAX PARCEL: 10344-05-05-1541
 PROPERTY LOCATION: 449 Hawthorne Rd - 1A2

***SYSTEM SHALL NOT BE INSTALLED UNDER WET CONDITIONS**
 *Trench bottom depth to be no deeper than 24" naturally occurring surface.

SUBDIVISION: Mountain Place
 LOT: 35 BLOCK: _____ SEC: A, II
 TYPE STRUCTURE: Single family
 NO. BEDROOMS: 2 NO. BATHS: 1
 NO. PEOPLE: 2-10 DESIGN FLOW: 900 gpd
 GARBAGE GRINDER: YES () NO ()
 SEPTIC TANK: _____ GAL. PUMP TANK: _____ GAL.
 NO. LINES: see plan WIDTH: _____
 TOTAL LENGTH: _____ FT. TOTAL _____ SQ. FT.
 WATER SOURCE: Community
 HORIZONTAL DISTANCE FROM WELL: 2.1 FT.
 SITE MODIFIED: YES () NO ()
 DRAINAGE REQUIREMENTS: Provide positive drainage away from septic tank

Easement Required: _____ Yes _____ No
 Drainage Maintenance Req. Surface () Subsurface ()
 Maintain Minimum 10' From Water Line
 Comments: _____

- STRUCTURE SHALL BE PLACED SO THAT GRAVITY FLOW IS ACHIEVED OR PUMP SYSTEM SHALL BE REQUIRED.
- DO NOT PARK, PAVE, DRIVE, OR BUILD OVER ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
- MAINTAIN A MINIMUM 5 FEET BETWEEN ANY FOUNDATION AND ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.

- * Prior to any changes in system layout, approval must be obtained from Health Department.
- * NOTICE: Construction must comply with all state and local regulations. Do not install well until well site has been approved on inspection.
- * NOTICE: Beware much property in Carteret County is subject to Wetland Regulations and properties containing wetlands should receive approval from U.S. Army Corp. of Engineers prior to development.

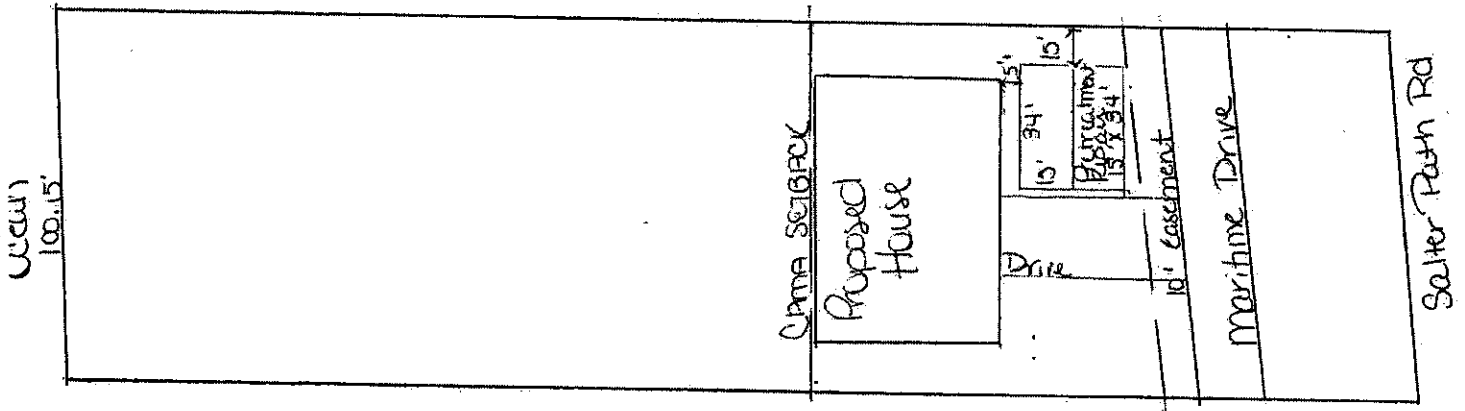
FOR SYSTEMS REQUIRING LESS THAN 18" TRENCH BOTTOMS, A MINIMUM OF 6" SOIL COVER IS REQUIRED AND MAY REQUIRE ADDITIONAL FILL OF AT LEAST GROUP II SANDY LOAM TEXTURE.

(OFFICE USE FOR FIELD NOTES ONLY)
 MODIFICATION INSPECTION BY: _____
 ENVIRONMENTAL HEALTH SPECIALIST
 DATE: _____
 INSTALLER: _____
 COMMENTS: _____

SITE PLAN

- * Pre-construction Conference required.
- * Engineer plans required for pretreatment system
- * Contract w/ Certified operator required.
- * May use H-20 rated tanks!

* Supply line shall be encased in ductile iron or at a depth of 30" if ran under driveway.



ELECTRICAL PERMIT REQUIRED: YES () NO ()

OWNER: Brian L. & Stacey McCann % Prestige Land Surveying - Keith R. Buck
 ADDRESS: 501 W. B. Melan Blvd Cape Carteret, NC 28584 PHONE 252-343-2129
 TAX PARCEL: 6344.08.99.7847
 PROPERTY LOCATION: 449 Maritime Pl - PK5

***SYSTEM SHALL NOT BE INSTALLED UNDER WET CONDITIONS**

*Trench bottom depth to be no deeper than 24" below naturally occurring surface.

SUBDIVISION: Maritime Place
 LOT: 25 BLOCK: _____ SEC: Ph. II
 TYPE STRUCTURE: Single family
 NO. BEDROOMS: 2 NO. BATHS: _____
 NO. PEOPLE: 5 DESIGN FLOW: 968 gpd
 GARBAGE GRINDER: YES () NO ()
 SEPTIC TANK: 2500 GAL. PUMP TANK: 1500 GAL. 1500 gal recirc. tank.
 NO. LINES: _____ WIDTH: _____
 TOTAL LENGTH: _____ FT. TOTAL _____ SQ. FT.
 WATER SOURCE: Community
 HORIZONTAL DISTANCE FROM WELL: 20' FT.
 SITE MODIFIED: YES () NO () pretreatment
 DRAINAGE REQUIREMENTS: provide positive drainage away from septic area

Easement Required: _____ Yes No
 Drainage Maintenance Req. Surface () Subsurface ()
 Maintain Minimum 10' From Water Line

Comments: *proposed Pretreatment system

- STRUCTURE SHALL BE PLACED SO THAT GRAVITY FLOW IS ACHIEVED OR PUMP SYSTEM SHALL BE REQUIRED.
- DO NOT PARK, PAVE, DRIVE, OR BUILD OVER ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
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- * NOTICE: Construction must comply with all state and local regulations. Do not install well until well site has been approved on inspection.
- * NOTICE: Beware much property in Carteret County is subject to Wetland Regulations and properties containing wetlands should receive approval from U.S. Army Corp. of Engineers prior to development.

FOR SYSTEMS REQUIRING LESS THAN 18" TRENCH BOTTOMS, A MINIMUM OF 6" SOIL COVER IS REQUIRED AND MAY REQUIRE ADDITIONAL FILL OF AT LEAST GROUP II SANDY LOAM TEXTURE.

(OFFICE USE FOR FIELD NOTES ONLY)

MODIFICATION INSPECTION BY: _____ ENVIRONMENTAL HEALTH SPECIALIST

DATE: _____
 INSTALLER: _____
 COMMENTS: _____

SITE MODIFICATION REQUIREMENTS

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GRADING MODIFICATION

House placement shall allow for gravity flow to septic system or pump system shall be required

GRADE AREA: _____
COMMENTS: _____

LPP SPECIFICATIONS

SEPTIC TANK: 3500 gal
PUMP TANK: 2000 gal 1500 gal recirc tank
DRAINFIELD: 15 x 34'
LTAR: 1.0

Plans for the ~~EPP~~ ^{PERMIT} system shall be prepared by a person having a demonstrated knowledge of EPP's, such as an engineer licensed with the State of North Carolina.

The system shall be designed according to Section 1900 of the State Sewage Rules.

EPP plans shall be submitted to and approved by the Carteret County Environmental Health Division. Other requirements such as fill and/or grading may also be necessary.

A contract between the owner and a certified operator shall be required for the purposes of maintenance and operation of the above septic system.

DRAINAGE MODIFICATION

COMMENTS: _____

FILL MODIFICATION

AMOUNT OF SAND _____
TOPSOIL AFTER SYSTEM INSTALLED _____
FILL AREA _____

STANDARD PROCEDURES:

1. Fill material shall be applied in three stages:
 - a. The fill area should be cleared of any vegetative cover or organic litter and disked to a depth of six inches.
 - b. Two to three inches of Group I Sand is placed in fill area and disked or mixed in with the original soil to a depth of six inches.
 - c. When b. is completed, the remainder of the Group I Sand can be added to the specified area and then inspected by this office. **FILL MATERIAL SHALL NOT CONTAIN CONSTRUCTION DEBRIS, TRASH, ROCK, CLAY BALLS, HARD PAN MATERIAL OR ANY OTHER THAN SAND.**
2. Topsoil installation:
 - a. After the system is installed according to the IMPROVEMENT PERMIT and inspected by this office, the topsoil can be installed.
 - b. The topsoil will be Group II Sandy Loam or Loam. The topsoil shall be limed and/or fertilized if necessary to promote vigorous growth of grass.
 - c. The entire filled area shall be seeded with perennial grass seed.

COMMENTS: Engineered Partreatment plans shall be submitted for approval by CEHD prior to issuance of Construction Authorization.

*Prior to any changes in system layout, approval must be obtained from Health Department.

*NOTICE: Construction must comply with all state and local regulations. Do not install well until well site has been approved.

*NOTICE: Beware much property in Carteret County is subject to Wetland Regulations and properties containing wetlands should receive approval from U.S. Army Corp of Engineers prior to development.

WHEN THIS MODIFICATION HAS BEEN COMPLETED PLEASE NOTIFY THIS OFFICE AND ANOTHER INSPECTION WILL BE MADE. IF IMPROVEMENTS ARE SATISFACTORY, AN AUTHORIZATION TO CONSTRUCT CAN BE ISSUED.

(OFFICE USE FOR FIELD NOTES ONLY)

MODIFICATION INSPECTION BY: _____

ENVIRONMENTAL HEALTH SPECIALIST

DATE: _____

INSTALLER: _____

COMMENTS: _____
