IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ✓ Improvement Permit ___Authorization To Construct ___BOTH ___Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
   The following optional attachments may also be submitted: ___ Survey Plat, Scaled no more than 1 Inch = 60 Feet
   Place check ( ) beside whichever is submitted if applicable ___ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone	Work Phone
Wayne & Susanne Parker	597 Presbyterian Church Rd 28115		
Owner Name	Mailing Address	Home Phone	Work Phone
same	Contact SAME	704-662-8625	

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
Holt Lane		Lot 95A

Driving Directions: Hwy 150 W, L McCrary, R Holt, at end on Right

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5. **RESIDENTIAL Site Development Information:** *(Check or Complete ALL that apply)*

(X) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
( ) Repair To Failing Septic System

Maximum Number of Bedrooms 5
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
(X) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development: Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

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6. **Proposed Water Supply:**

(X) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

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7. **Desired Septic System Type:** *(You may rank in order of preference, if any)*

( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other___ ( ) No Preference

****

8. **Please Answer The Following To The Best of Your Ability:**

( ) Yes (X) No ? Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

****

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.

9. Signature: Kathleen Saunders — 6/24/09

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — DATE

IREDELL COUNTY HEATLH DEPARTMENT

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE SAMPLE SITE PLAN BELOW. INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!

Place an (X) beside each item as you complete the site plan:

- ✓ Property Line measurements are clearly identified...
- ✓ All proposed structures are indicated...
  SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site
- ✓ Front and side setbacks from property line...
- ✓ Preferred driveway location and configuration, preferred well location...
- ✓ Area you prefer your septic system to be placed...
- ____ North arrow, or other sufficient indicator of direction...

Circle N/A on the following if appropriate:

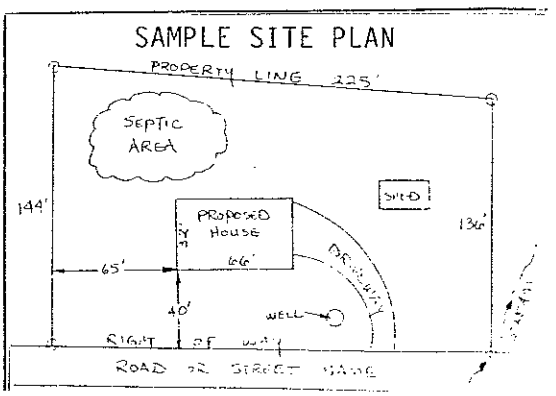
- ____ Location of septic systems and wells within 100' of your property... (N/A)
- ____ Location of easements and rights of ways on your property... (N/A)
- ____ Location of any designated wetlands on the property... (N/A)

Signature: Kathleen Saunders
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

6/24/09
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN

Please See Attached



June 24, 2009

Wayne and Susanne Parker
597 Presbyterian Road
Mooresville, North Carolina 28115

Attention: Mrs. Susanne Parker

Reference: **Septic System Proposal for an Improvement Permit for Susanne Parker – Lot 95A Holt Lane**
Iredell County, North Carolina
S&ME, Inc. Project No. 1588-09-033

Dear Mrs. Parker:

S&ME, Inc (S&ME) has provided technical assistance in regard to the soil evaluation and system layout for the proposed septic system for the above referenced property in Iredell County, North Carolina. The evaluation was performed in general accordance with S&ME Proposal No. 1588-09-P042 dated May 19, 2009. Work was done in accordance with the "Laws and Rules for Sewage Treatment and Disposal Systems (15A NCAC 18A .1900)".

BACKGROUND

The referenced property is a waterfront lot located at the end of Holt Lane in Iredell County, North Carolina. The purpose of the evaluation was to obtain a 5 bedroom Improvement Permit for a new proposed house location. S&ME understands that the 1.86 Acre lot was evaluated by the Iredell County Health Department (ICHD) in conjunction with a previous S&ME evaluation and an Improvement Permit for a four bedroom house was issued on October 11, 2005. This permit is still valid at this time.

The site plan by Swan Design, Inc. was provided by the client and was used for our evaluation. In the field, the property corners were staked and the property lines were flagged at the time of the evaluation.

S&ME performed a preliminary site visit on May 20, 2009. During this site visit, S&ME described hand auger borings, performed a preliminary system layout, and investigated neighboring lots for potential septic and well setbacks. The house location shown on the Swan Design site plan was reviewed in the field on June 23, 2009.

SUMMARY OF SOIL EVALUATIONS

S&ME performed four hand auger borings to a depth of 48 inches on the lot. No saprolite was encountered within 48 inches of the ground's surface, so a 50 foot setback from the well should be sufficient for this lot. This lot has a current and valid improvement permit at this time with a Long Term Acceptance Rate (LTAR) of 0.3 gallons per day per square foot (gpd/ft^2), and S&ME proposes to utilize the same LTAR based on the attached soil notes.

SUMMARY OF SYSTEM RECOMMENDATIONS

Based on our auger boring evaluation and our system layout on the lot, we are proposing a 5 bedroom T&J panel system with 343 feet of line for the primary system. Low Pressure Pipe distribution will be required for the system. The proposed system will be considered a Type IV system and will require a contract with a Certified Operator.

A T&J panel system at the same loading rate is proposed for the required 100% repair on the lot. The attached site plan shows the proposed house, drive, proposed well, and system locations. Any changes to the attached site plan should be approved by the ICHD. Any fill material used for the driveway should not encroach on the septic system area. The extent of the fill should be approved by the ICHD before the Authorization to Construct is issued. Surface water should be diverted from the drainfield.

The wells on the neighboring lake front lots were approximately located on the attached site plan. No well was noted on the neighboring interior lot on Holt Lane during the S&ME investigation. A well permit issued by the ICHD will be required to drill a well on Lot 95A.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist the owner and the ICHD with the site evaluation. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, and required setbacks before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

CLOSURE

Thanks for the opportunity to provide technical assistance associated with septic permitting. Please call if you have any questions concerning this report.

Sincerely,

S&ME, Inc.

Paul Penninger, L.S.S.
Senior Soil Scientist

Kathleen Saunders, L.S.S.I.T.
Project Manager

Senior Review: RPW

S:\1588\2009 Job#'s\1588-09-033 Suzanne Parker - Lot 95A Holt Ln\Susanne Parker Summary Report For IP.doc

Attachments:

1. ICHD Improvement Permit Application
2. Health Department Requirements
3. Site Plan and System Specifications
4. S&ME soil notes
5. Survey Map
6. Existing Permit

cc: Iredell County Health Department
File