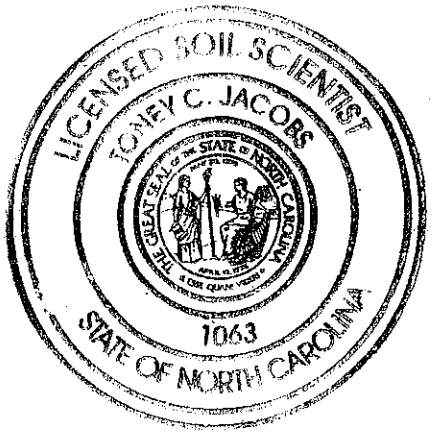
FAST TRACK FOR A PPBPS
GRAVITY D-BOX DISTRIBUTION TO 25% REDUCTION
SEPTIC SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL
Lot #117 Section 11 CL&T
114 Kilkee Lane
Mooresville, North Carolina 28117

Prepared for:
Susan Foster
114 Kilkee Lane
Mooresville NC 28117
704 650-9705

Prepared by:
Jacobs On-Site Development, Inc.
168 Broadbill Drive
Mooresville, North Carolina 28117
office 704 662-9845
cell 704 582-9219
toneycjacobs@gmail.com

August 22, 2013

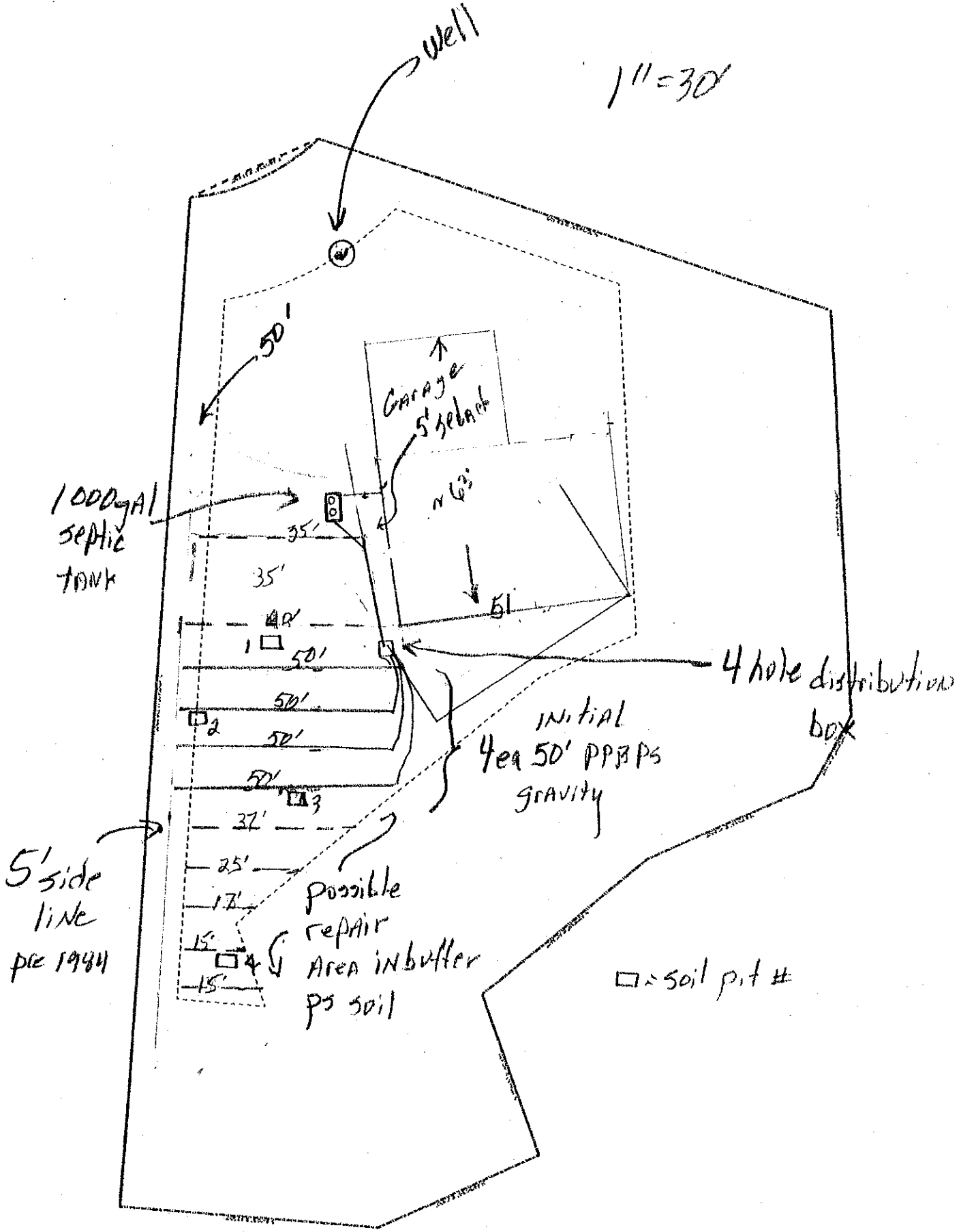



Toney C. Jacobs, LSS

Copy to: Brady Freeman, REHS
Iredell County Environmental Health
Mooresville, NC 28115
707 902-4491

**FAST TRACK PLAN** - August 22, 2013
Lot #18 Section 11 CL&T - 114 Kilkee Lane

| | |
|---|---|
| Number of Bedrooms | 3 |
| Basement or crawl | crawl |
| Design flow (gpd) | 360 |
| Septic tank | 1000 gal. |
| Primary System LTAR ($gpd/ft^2$) | 0.3 |
| Primary system type | PPBPS 50% reduction |
| Number of lines | 4 @ 50' end fed |
| Total linear feet | 200' |
| Trench width | 3' min. or equivalent |
| Trench spacing | 9' min. |
| Trench depth | 2.8' |
| Distribution device | speed level D-box with 4 outlets |
| Length and diameter of supply pipe | approx. 30' |
| Elevation head | approx. 2' set tank just below ground surface |
| Repair System | PPBPS 50% reduction |
| Total linear feet | 200' |
| Repair loading rate($gpd/ft^2$) | 0.3 |
| Water supply | in place on-site well >50' |


Well
1" = 30'
50'
Garage
5' setback
1000 gal
septic
tank
35'
35'
40'
50'
50'
50'
50'
37'
25'
17'
15'
15'
51'
4 hole distribution
box
initial
4 eq 50' PPB PS
gravity
5'
side
line
pre 1984
possible
repair
Area in buffer
ps soil
□ = soil pit #
1
2
3
4

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1of1
Property ID:
Lot #: 117
File #:
AppID:

# SOIL/SITE EVALUATION
# for ON-SITE WASTEWATER SYSTEM

Owner: Susan Foster
Address: 114 Kittoe 28117
Proposed Facility: 3bn
Location of Site: Hyde Community
Design Flow (.1949) 360

Applicant:
Date Evaluated:
Property Size:
Property Recorded:

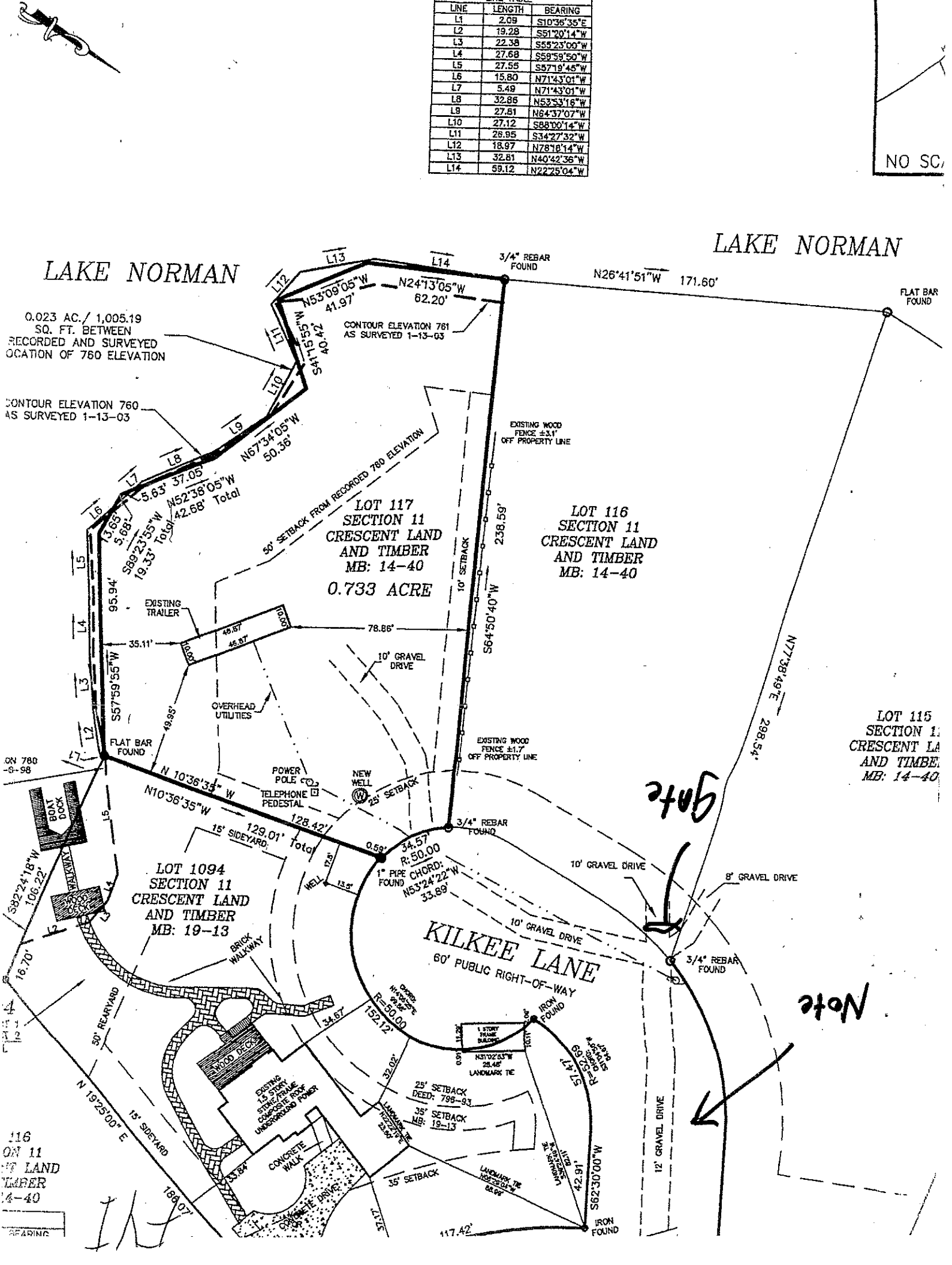
Water Supply: [ ] Public [✓] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [✓] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | b PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1:8 | 0-6 | gsl | fri 1:1 | NA | — | NA | NA | 0.3 |
| | | 6-42 | mmSBK C | fri 3Sp 1:1 | NA | — | — | — | — |
| 2 | 1:8 | 0-6 | gsl | fri 1:1 | NA | — | — | — | 0.3 |
| | | 6-30 | mmSBK C | fri 3Sp 1:1 | — | — | — | — | |
| 3 | 1:8 | 0-7 | gsl | fri 1:1 | NA | — | — | — | 0.3 |
| | | 7-11 | mmSBK C | fri 3Sp 1:1 | | | | — | |
| | | 11-42 | lms | fri 0SnP 1:1 | | | | | |
| 4 | 1:6 | 0-4 | gsl | fri " " | | | | | 0.3 |
| | | 4-48 | mmSBK C | " " " | | | | | |
| | | 48-63 | stkd sl | " " " | | | | | |

LICENSED SOIL SCIENTIST
TONEY C. JACOBS
THE GREAT SEAL OF THE STATE OF NORTH CAROLINA
1063
STATE OF NORTH CAROLINA

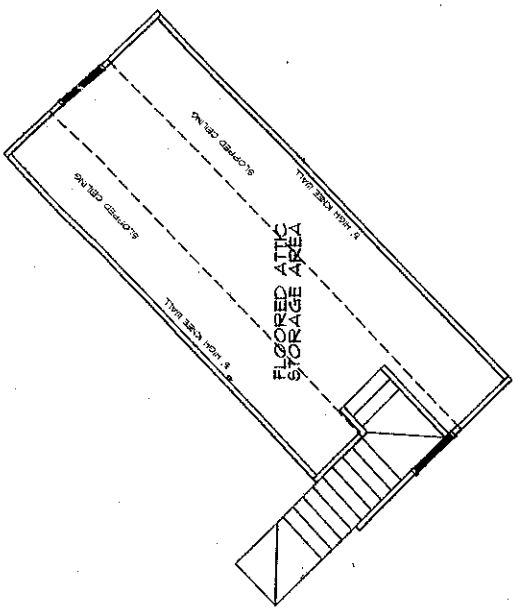
| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | ✓ | ✓ limited - dear |
| System Type(s) | PPBPS | PPBPS |
| Site LTAR | 0.3 | 0.3 |

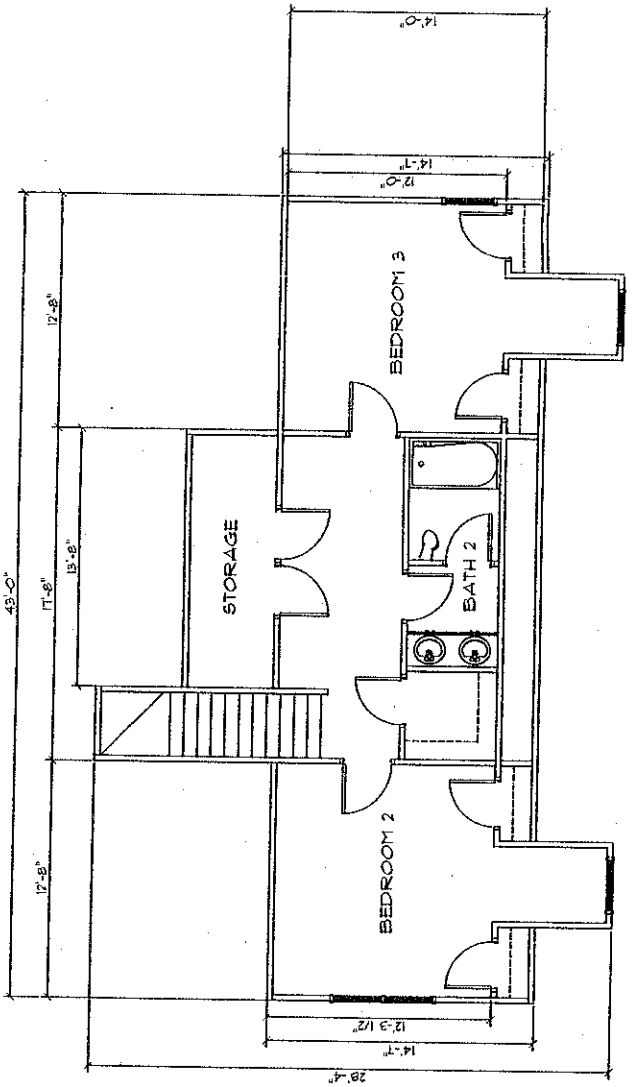
Other Factors (.1946):
Soil Evaluation By: TCJ
Others Present: Owner
Site Classification (.1948):
Site Evaluation By:
Others Present:

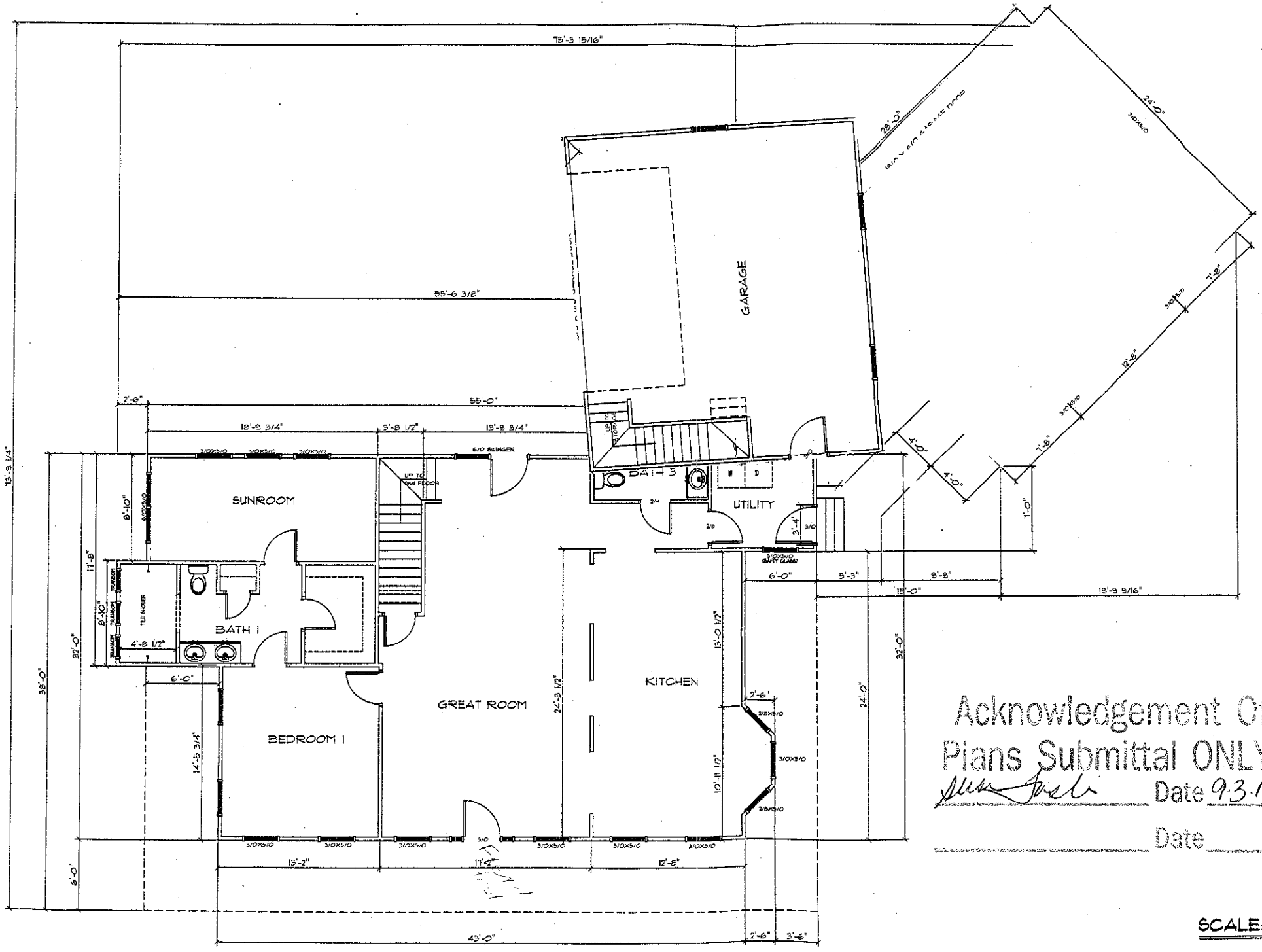

LAKE NORMAN
LAKE NORMAN
0.023 AC./ 1,005.19 SQ. FT. BETWEEN RECORDED AND SURVEYED OCATION OF 760 ELEVATION
CONTOUR ELEVATION 760 AS SURVEYED 1-13-03
CONTOUR ELEVATION 761 AS SURVEYED 1-13-03
3/4" REBAR FOUND
FLAT BAR FOUND
N26°41'51"W 171.60'
N53°09'05"W 41.97'
N24°13'05"W 62.20'
S41°55'55"W 40.42'
N67°34'05"W 50.36'
S52°38'05"W 42.68' Total
S89°23'55"W 19.33' Total
S57°59'55"W 95.94'
N10°36'35"W 128.42'
15' SIDEYARD
129.01' Total
S82°24'18"W 106.22'
16.70'
N 19°25'00" E
189.07'
50' REARYARD
50' SETBACK FROM RECORDED 760 ELEVATION
EXISTING WOOD FENCE ±3.1' OFF PROPERTY LINE
EXISTING WOOD FENCE ±1.7' OFF PROPERTY LINE
10' SETBACK
238.59'
S64°50'40"W
78.86'
35.11'
EXISTING TRAILER
46.87'
10' GRAVEL DRIVE
OVERHEAD UTILITIES
49.85'
POWER POLE
TELEPHONE PEDESTAL
NEW WELL
25' SETBACK
WELL
13.5'
17.5'
0.59'
34.57
R: 50.00
1" PIPE FOUND
CHORD: N53°24'22"W 33.89'
3/4" REBAR FOUND
N77°38'49"E 298.54'
8' GRAVEL DRIVE
10' GRAVEL DRIVE
KILKEE LANE
60' PUBLIC RIGHT-OF-WAY
12' GRAVEL DRIVE
IRON FOUND
R=50.00
152.12'
34.67'
32.02'
1 STORY FRAME BUILDING
N31°02'53"W 28.48' LANDMARK TIE
R=52.69'
57.47'
25' SETBACK DEED: 798-93
35' SETBACK MB: 19-13
LANDMARK TIE
N22°27'07"E 25.00'
LANDMARK TIE N05°28'04"E 68.92'
S62°30'00"W 42.91'
117.42'
35' SETBACK
CONCRETE WALK
CONCRETE DRIVE
EXISTING 1.5 STORY STONE/FRAME COMPOSITE ROOF UNDERGROUND POWER
WOOD DECKS
BRICK WALKWAY
BOAT DOCK
WOOD DECK
WALKWAY
LOT 117 SECTION 11 CRESCENT LAND AND TIMBER MB: 14-40 0.733 ACRE
LOT 116 SECTION 11 CRESCENT LAND AND TIMBER MB: 14-40
LOT 1094 SECTION 11 CRESCENT LAND AND TIMBER MB: 19-13
LOT 115 SECTION 11 CRESCENT LAND AND TIMBER MB: 14-40
L1 2.09 S10°36'35"E
L2 19.28 S51°20'14"W
L3 22.38 S55°23'00"W
L4 27.68 S58°59'50"W
L5 27.55 S57°19'45"W
L6 15.80 N71°43'01"W
L7 5.49 N71°43'01"W
L8 32.86 N53°53'16"W
L9 27.81 N64°37'07"W
L10 27.12 S88°00'14"W
L11 26.95 S34°27'32"W
L12 18.97 N78°18'14"W
L13 32.81 N40°42'36"W
L14 59.12 N22°25'04"W

SCALE:

Acknowledgement Of
Plans Submittal ONLY!
Date 9.3.13
Date






Acknowledgement Of
Plans Submittal ONLY!
Date 9.3.13

Date

SCALE: 1

# IREDELL COUNTY HEATLH DEPARTMENT
## *ENVIRONMENTAL HEALTH DIVISION*
## 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:** _____
*REQUIRED* property owner or owner's legal representative signature.

8/22/13
DATE

## USE THIS SPACE TO DRAW YOUR SITE PLAN

"See Attached"
Front Tract

8-22-13 KW $395 Fee pd. in 2007 D. Hinson told customer they didn't have to pay again.

Pd. 877.25 8-22-13

FAST TRACK

# IREDELL COUNTY HEALTH DEPARTMENT

## *ENVIRONMENTAL HEALTH DIVISION*

**PAGE 1: *APPLICATION FORM***

**Application For:**

( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment

(✓) Septic Improvement Permit (✓) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

***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.***

**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 an (X) beside whichever is submitted if applicable* ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

**Applicant Information:**

**Applicant Name:** Susan Foster **Address:** 114 Kilkee Lane, Mooresville NC **Phone:** 704 650-9705

**Owner Name:** Susan Foster **Address:** same **Phone:** 704 650-9705

**Property Information:**

**Street Address:** 114 Kilkee Lane, Mooresville, NC 28117

**Subdivision Name:** Crescent Land & Timber 14-40 **Section/Phase:** 11 **Lot Number:** 117

**Driving Directions:** Hwy 150 West to Perth Rd to Normandy Rd. Right on Kilkee Lane

**Site Development Information:** *(check or complete ALL that apply)*

(✓) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

**Maximum Number of Bedrooms:** 3
**Maximum Number of Occupants:** 6
( ) Swimming Pool
( ) Other Addition/Structure:

(✓) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

**Non-Residential Site Development:**

**Type of Business:**
**Square Footage of Building:**
**Maximum Number of Employee:**
**Maximum Number of Seats/Beds/Other:**

$ PAID 411.00

**Water Supply:**

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

**Desired Septic System Type:** *(you may rank in order of preference)* **Year existing system installed:** N-A

( ) No Preference ( ) Alternative (✓) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: DK BP3

**Please answer the following to the best of your ability:**

( ) Yes (✓) No **Does the site contain any jurisdictional wetlands?**
( ) Yes (✓) No **Is any non-domestic sewage (i.e. industrial) to be generated?**
( ) Yes (✓) 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.*

**Signature:** Susan Foster CAI/Tony Sacks 07-22-2013

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

582919

**Iredell County**
**Planning & Enforcement**
**349 N. Center St. PO Box 788**
**Statesville, NC 28687**
**704-878-3113**

## Zoning Permit

**Permit Number:** 141267ZO


Printed: 7/22/2013

**Master #:** 141267

**Associated Permits:**
141267ZO Zoning

### Applicant

**Name:** Susan Foster
**Address:** 114 Kilkee Lane
Mooresville, NC 28117
**Phone:** 704-799-2081

### Parcel

**Parcel Number:** 4638431585.000
**Address:** 114 Kilkee Ln.
Mooresville, NC 28117
**Subdivision:** Duke
**Zoning:** R-20
**Township:** 1700
**Area:** .727
**Lot(s):** 117
**Directions to Parcel:** Hwy 150, turn right onto Perth, left onto Normandy, right onto Kilkee, the property is at the end. There is a single wide on the property

### Owners

**Name:** Susan Foster
**Address:** 432 Normandy Rd.
Mooresville, NC 28117
**Phone:** 704-650-9705

### Contractors

### Fees and Receipts:

| Number | Description | Amount |
|---|---|---|
| FEE-146649-07 | Zoning - Permit / Inspection | $45.00 |
| FEE-146650-07 | Environmental Health - Type I or II System | $350.00 |
| FEE-291422-07 | Zoning - Permit Application | $75.00 |
| FEE-291429-07 | Technology Fee - Planning | $2.25 |
| | **Total Fees:** | **$472.25** |
| REC-79654-07 | | $395.00 |
| REC-148699-07 | | $77.25 |
| | **Total Receipts:** | **$472.25** |

Updated 7-22-13 ad

1417 1176

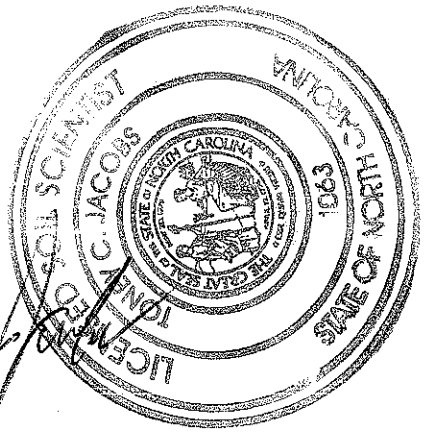
# JACOBS ON-SITE DEVELOPMENT, INC.

Toney C. Jacobs, MS, LSS, CPSS

Licensed by the North Carolina Board for Licensing of Soil Scientists
Certified by South Carolina Dept. of Natural Resources as a Soil Classifier
Certified by the American Registry of Certified Professionals in Agronomy, Crops and Soils

168 Broadbill Drive
Mooresville, NC 28117
(704) 662-9845 (704) 582-9219 cell
toneycjacobs@gmail.com


April 7, 2014




To: Ben Aldridge, REHS
Iredell County Health Dept.

From: Toney Jacobs, LSS

Re: Susan Foster fast track plan for Lot 18 Sect 11 CLT
114 Kilkee Lane, Mooresville NC 28117

On my design of August 22, 2013 I specified 4 each T&J panel lines with 12 panels each. At installation, because of house setback, the lines were installed with 12, 11, 12, and 13 panels which is within 10% variation in loading and should not compromise workability of the system.