Supervisor/Administrative Professional Checklist

New Septic ☑ **New Well** ☐ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

New Septic Fees Paid:

IP ($250.00) lwa 11/13/12 Initials/Date

CA ($200.00) lwa 5/29/14 Initials/Date

OP ($200.00) lwa 5/29/14 Initials/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. ☑ Reviewed ☑ JAM 6-3-14
OK TO ISSUE CA

This site is served by septic and well. Verify each is complete before final hold is released. ☑

Septic file completed. ☑ JAM Well file completed. ☑ JAM

Send permit for signature. ☑ Signature received. ☑ 1-3-13

This septic system requires a certified operator contract before final hold is released. ☐

Certified operator contract is on file. ☐ _____

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 8623B WASPS App #: 3895

Primary ES assigned to project: Jacob Presley

Secondary ES assigned to project:

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 4 pits			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.225	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☒	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☒	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☒	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☒	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☒	N/A ☐
130A-336(a)(1)	Property line lengths shown?	Yes ☒	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☒	No ☐	N/A ☐

Operation Permit

.1937(i)	System type as described in table V(a) of rule .1961	Yes ☒	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☒	No ☐	N/A ☐

IL WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: JAM Date performed: _____

8623B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App # 5895

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ⊘ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ○ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 217-141-27
STREET ADDRESS: 17501 Dye West Dr
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION NAME: NA
LOT #: 124 LOT SIZE (acres): app 1.0
TOWNSHIP:

⊘ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. ***BUILDING INFORMATION:***

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
⊘ HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: 6400Z
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 8

FOUNDATION TYPE:

○ CONCRETE SLAB ⊘ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☐ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ○ MUNICIPAL ⊘ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ○ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*

☐ N/A ☐ ANY TYPE ☐ CONVENTIONAL ☑ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** ____ ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ⊘ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ⊘ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ⊘ NO	JURISDICTIONAL WETLANDS	⊘ YES ○ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ⊘ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ⊘ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ⊘ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ⊘ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ⊘ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ⊘ NO
WASTE STORAGE	○ YES ⊘ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ⊘ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** 4/64 ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** NA ☐ N/A

12. **PROPERTY OWNER:**

NAME: William A Hodges
ADDRESS: 17224 Dye West Drive
CITY: Charlotte
STATE: NC ZIP: 28278
WORK PHONE: _____
MOBILE PHONE: 704 562-1279
FAX: _____
E-MAIL: gobillh@bellsouth.net

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: Tonya C. Jacobs
ADDRESS: 1168 Broadbill Dr
CITY: Mooresville
STATE: NC ZIP: 28117
WORK PHONE: 704 662 9845
MOBILE PHONE: 704 582 9219
FAX: 704 662 9845
E-MAIL: tonyacjacobs@gmail.com

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. 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. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

TCF (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. 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. The permit is valid for a period of twelve (12) months from the date of issuance.

_____ (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Terry C Franklin
Property Owner's or Owner's Legal Representative Signature

11/13/12
Date

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ 250- DATE FEE RECEIVED: 11/13/12

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: lwa

GWS FILE NUMBER ASSIGNED: 8623B

APPLICATION ID NUMBER ASSIGNED: 5895

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

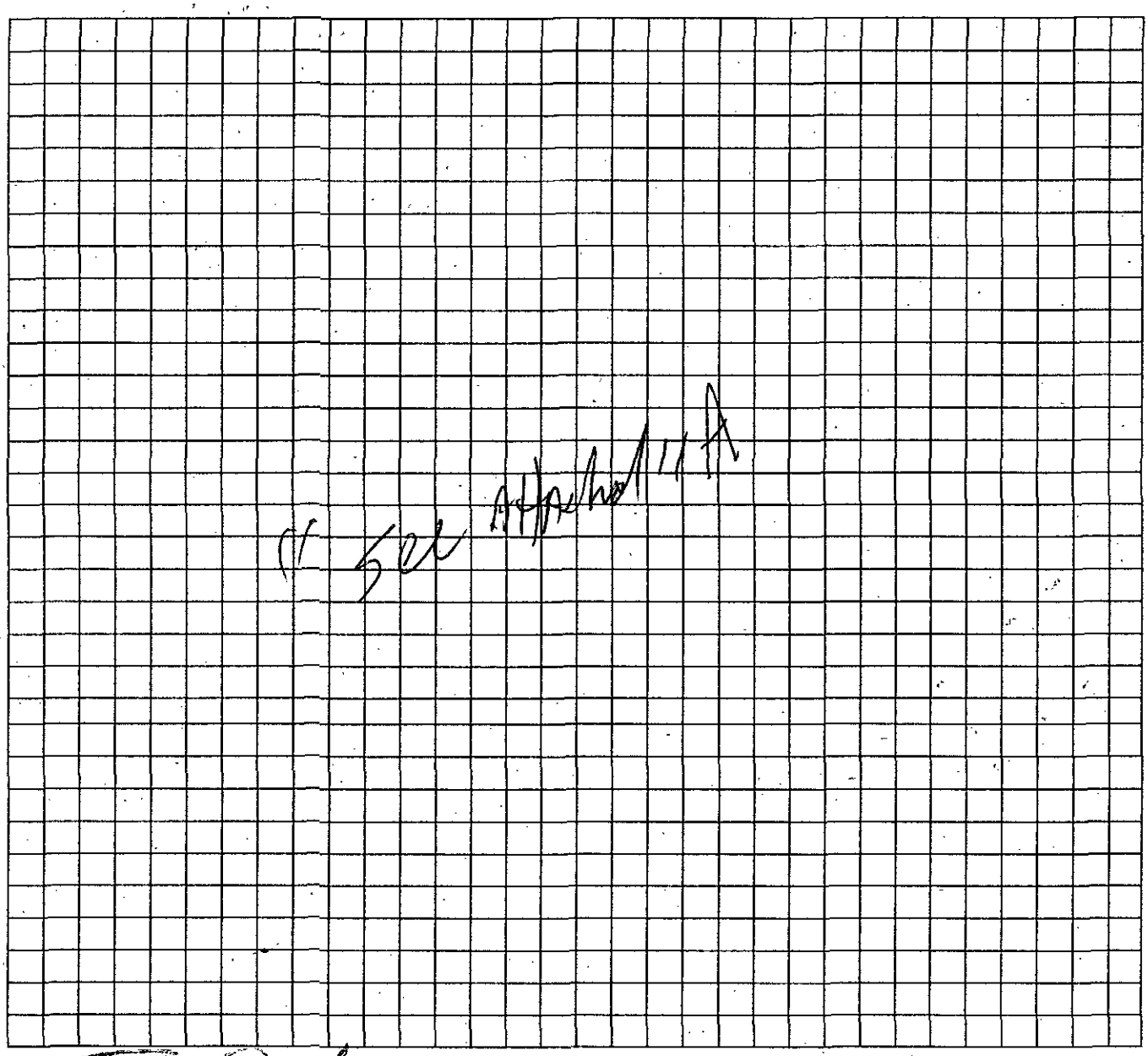
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 17501 Due West Dr Tax Parcel #: 217 19 137

Subdivision Name: N/A Lot #: 126



Property Owner's or Owner's Legal Representative Signature Date 11/13/12

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

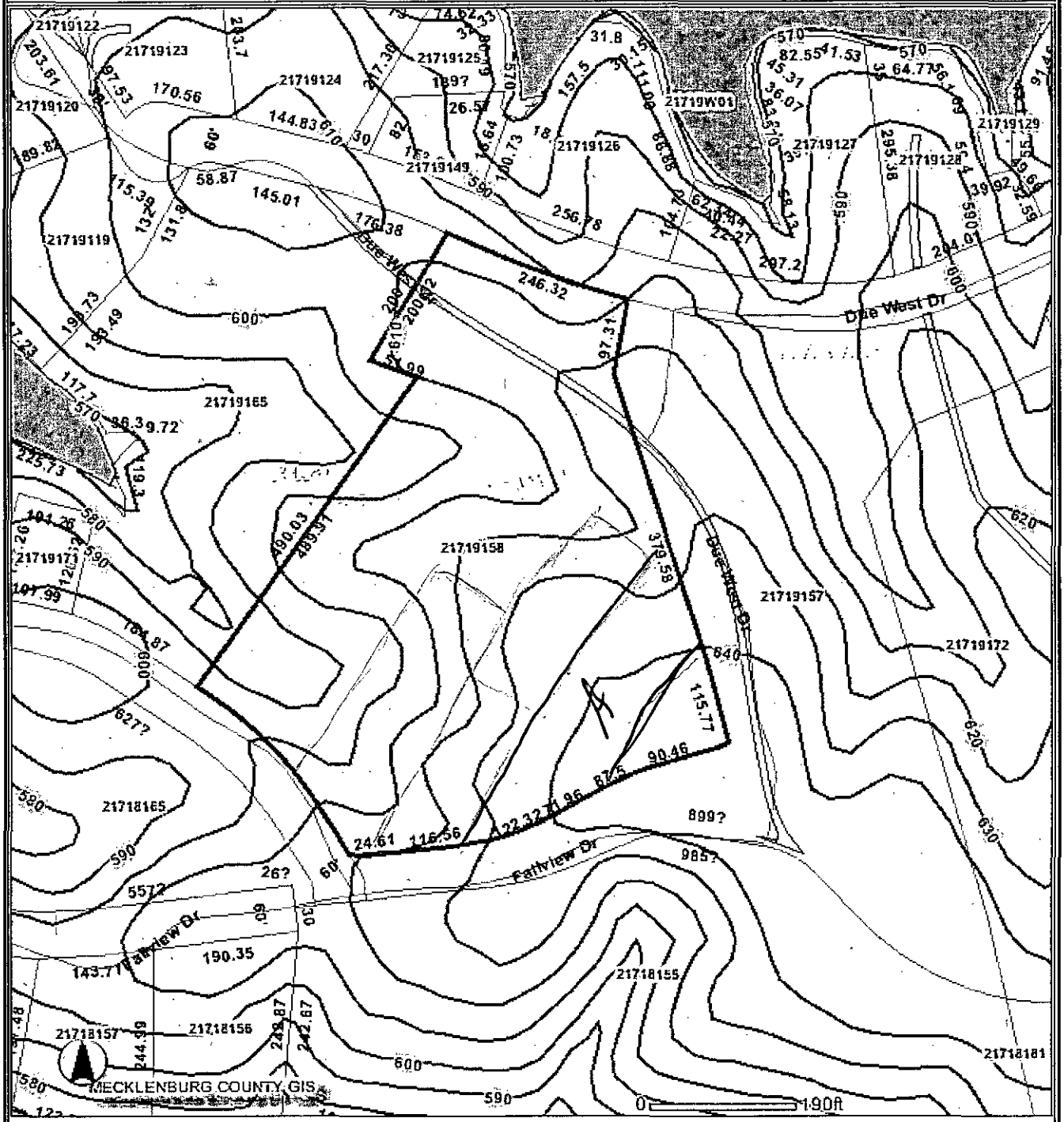
Mecklenburg County, North Carolina

POLARIS

Property Ownership Land Records Information System

Date Printed: Tue Nov 13 11:17:29 EST 2012

hodges 2



This map is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. *Users of this* map are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

8623B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ● NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ○ N/A ● NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 217-191-27
STREET ADDRESS: 17501 Due West Drive
CITY: Charlotte
STATE: NC ZIP: 28278
SUBDIVISION NAME: _____
LOT #: _____ LOT SIZE (acres): _____
TOWNSHIP:
● MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:
BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
○ HOUSE ○ OTHER _____
HEATED SQUARE FOOTAGE: 4,049
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:
○ CONCRETE SLAB ● BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ○ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ○ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☐ N/A ☐ ANY TYPE ☑ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

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EASEMENTS OR RIGHT-OF-WAYS	● YES ○ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ● NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ● NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ● NO
WASTE STORAGE	○ YES ● NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ● NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____ ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? February 2015 ☐ N/A

12. PROPERTY OWNER:
NAME: Chris and Kim Winfree
ADDRESS: 17501 Due West Drive
CITY: Charlotte
STATE: NC ZIP: _____
WORK PHONE: 704-541-9740
MOBILE PHONE: 704-962-2424
FAX: _____
E-MAIL: CWinfree@team-mech.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: Phil Hughes
ADDRESS: 6853 Fairview Road, Suite 100B
CITY: Charlotte
STATE: NC ZIP: 28210
WORK PHONE: 704-309-4314
MOBILE PHONE: 704-309-4314
FAX: _____
E-MAIL: Phughes@prhughesllc.com

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202. OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

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PH (Initial here for septic system applications)

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PH (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

RLR RYS

Property Owner's or Owner's Legal Representative Signature

5-29-2014

Date

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

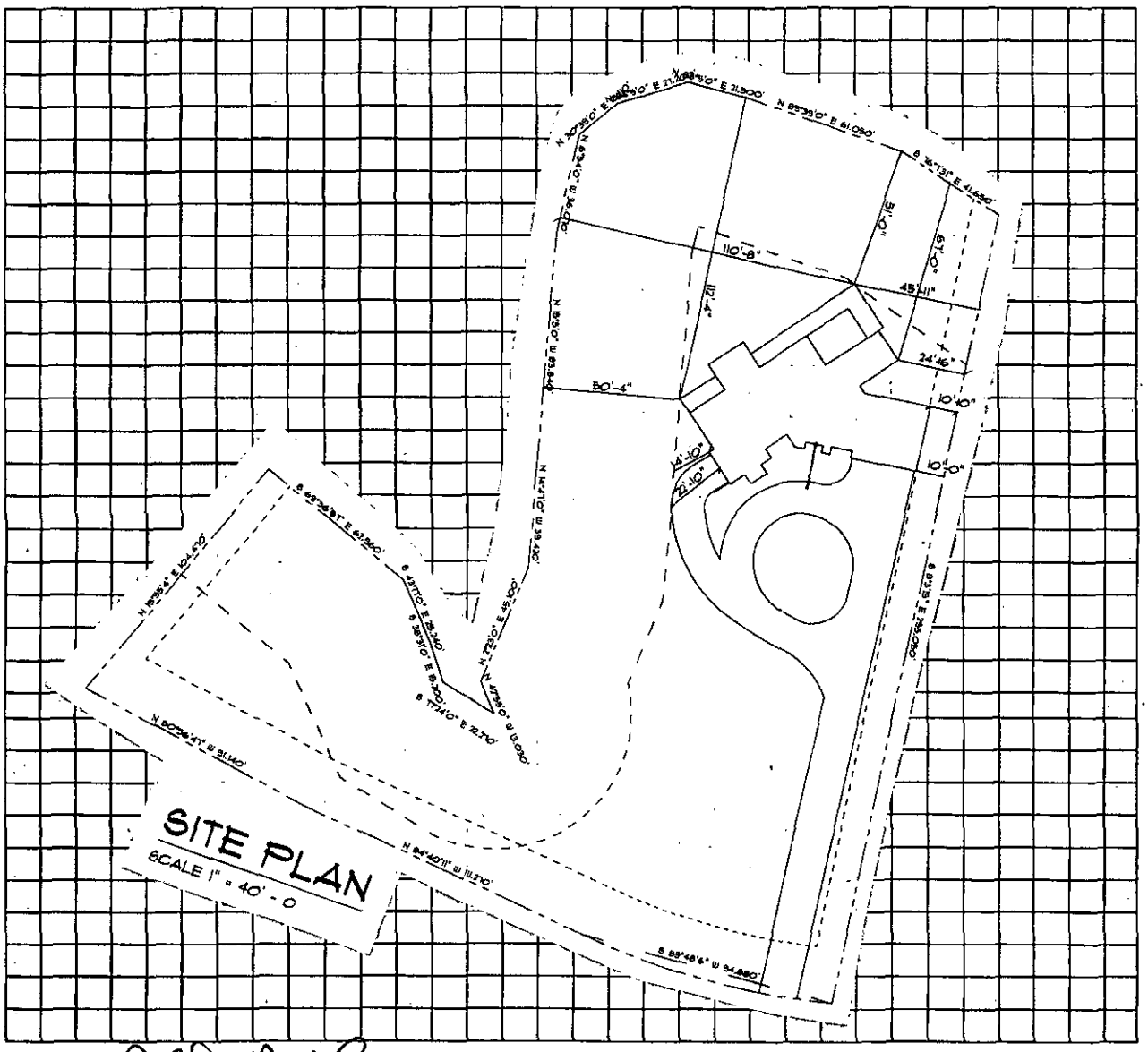
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 17501 Due West Drive Tax Parcel #: _____

Subdivision Name: _____ Lot #: _____

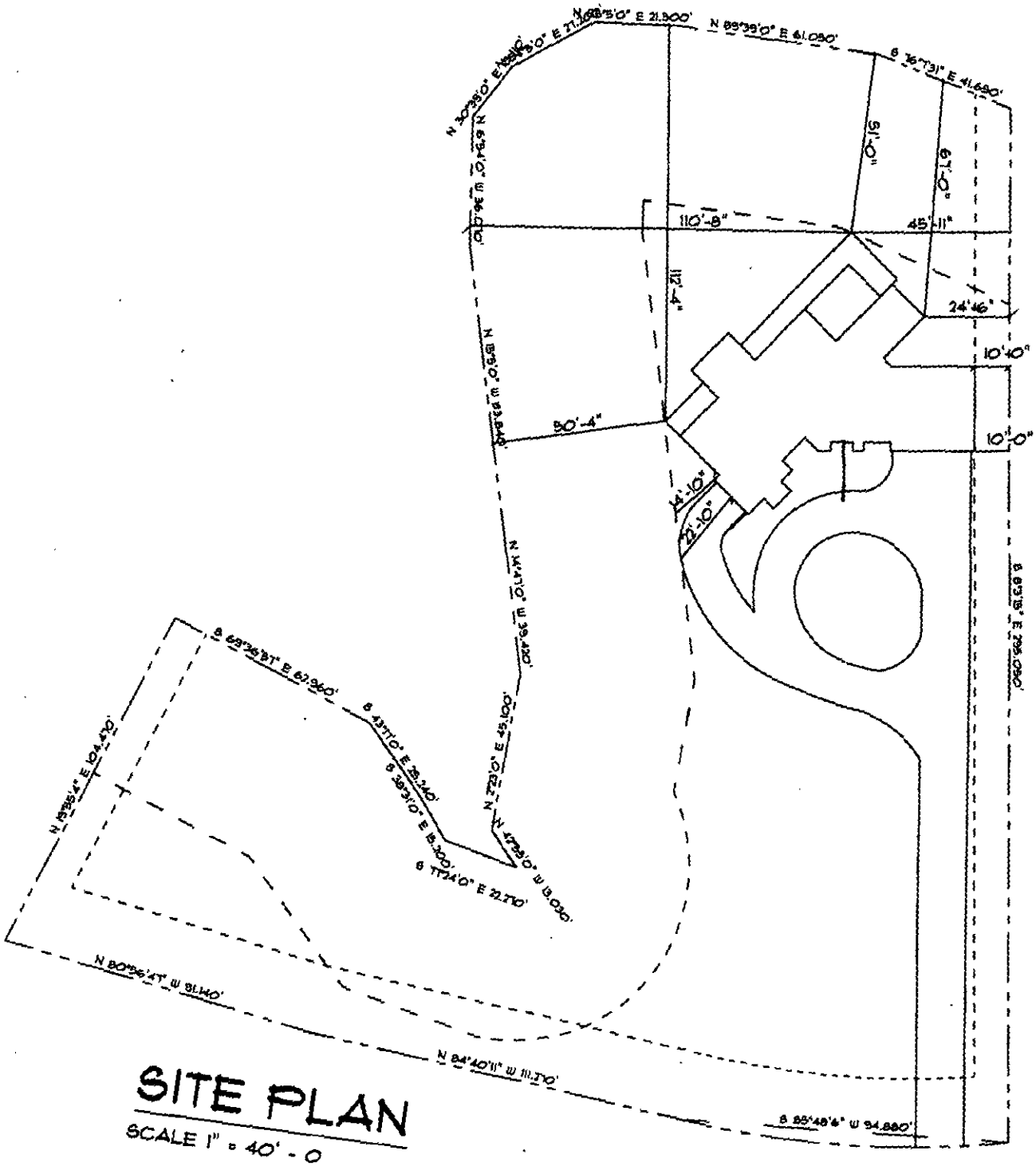


Property Owner's or Owner's Legal Representative Signature

5-29-2014
Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10



SITE PLAN

SCALE 1" = 40' - 0

MECKLENBURG COUNTY

E. Winters Mabry, MD
Director

Health Department

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Phil Hughes is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

17501 Dunn West Drive Charlotte
Number Street Town
(Or Parcel Number)

Christopher Scott Winfree
Property Owner (print name)

Property Owner (signature)

5/21/2014
Date

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

Sheet: 1 of 2
Property ID: 21719127
Lot #: 126
File #: 8623B
AppID: 5895

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: William A Hodges
Address: 17224 Due West Dr, Charlotte, NC 28278
Proposed Facility: 4BR Home Design Flow (.1949): 480 GPD
Location of Site: 17501 Due West Dr, Charlotte, NC 28278

Applicant: Toney Jacobs
Date Evaluated: 11/19 & 28/2012
Property Size: 1 ac + offsite area
Property Recorded: NA

Water Supply:	[ ] Public	[X] Individual	[X] Well	[ ] Spring	[ ] Other
Evaluation Method:	[X] Auger Boring		[ ] Pit	[ ] Cut	
Type of Wastewater:	[X] 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
Pit #3	NS 14%	0 - 12	wfgr SL	SS NP FR SEXP	>48"	48	NA	PS	
		12 - 40	mmabk C	S P FR SEXP					PS IV
		40 - 48	wfabk C	S P FR SEXP					0.225
Boring #13	NS 11%	0 - 9	wfgr SL	SS NP FR SEXP	>50"	50	NA	S	
		9 - 32	wmabk C	S P FI SEXP					PS IV
		32 - 50	wfabk SCL	SS SP FR SEXP					0.25
Boring #14	LS 14%	0 - 22	wfgr SL	SS NP FR SEXP	10 YR 7/2 @ 50"	53	NA	S	
		22 - 40	wmabk C	S P FI SEXP					PS IV
		40 - 53	wfabk SC	SS SP FR SEXP					0.225
Boring #15	LS 12%	0 - 17	wfgr SL	SS NP FR SEXP	>50"	50	NA	S	
		17 - 50	wmabk C	S P FI SEXP					PS IV
									0.225

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIb	IIIb
Site LTAR	0.225	0.225

Other Factors (.1946):
Soil Evaluation By: Jacob Presley LSS
Others Present: Toney Jacobs, LSS
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: Jacob Presley LSS
Others Present:

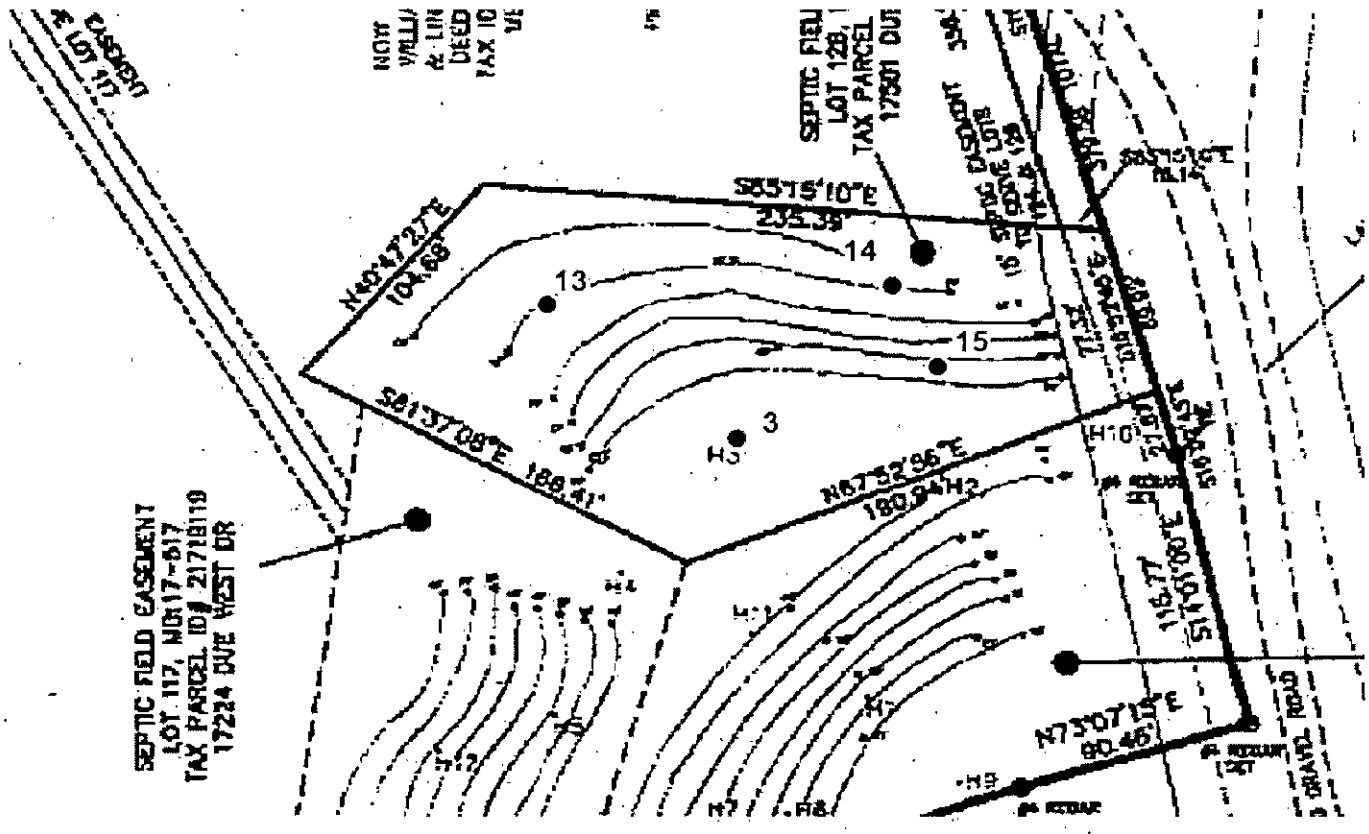
COMMENTS:

Area evaluated is a proposed offsite area located approximately 600 feet south southwest of the center of parcel # 21719127.

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	SG-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		M-Massive
LS-Linear Slope				CR-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	GR-Granular
NS-Nose Slope		L-Loam		SBK-Subangular Blocky
HS-Head Slope				ABK-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	PL-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		PR-Prismatic
T-Terrace		CL-Clay Loam		
FP-Flood Plain		SCL-Sandy Clay Loam		
D-Drainage Way		SiL- (Silt Loam)		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SiC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	NEXP-(Non-expansive)
FR-Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FI-Firm	S-Sticky	EXP-Expansive
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



PUMP TO A REMOTE DRAINFIELD
RESIDENTIAL LOW PRESSURE MANIFOLD DISTRIBUTION
25% REDUCTION SEPTIC SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL
17501 DUE WEST DRIVE – LOT 126
CHARLOTTE, NC 28278

MCHD FILE #8623B

Prepared for:
William A. Hodges
17224 Due West Drive
Charlotte, North Carolina 28278

Prepared by:
Marc A. Houle, PE
Yarbrough-Williams & Houle, Inc.
730 Windsor Oak Court
Charlotte, NC 28273
704 556-1990
march@y-wh.com

Toney C. Jacobs, LSS
Jacobs On-Site Development, Inc.
168 Broadbill Drive
Mooresville, North Carolina 28117
704 662-9845
toneycjacobs@gmail.com

December 12, 2012

GWS Septic System Design Review

GWS File #: 8623B Approved Disapproved

Design Review: ☒ ☐

Field Review: ☒ ☐

"Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Copy: Philo Walker, REHS (704 336-5570)
Jacob Presley, REHS, LSS (704 336-5440)
Mecklenburg County Health Dept.-IWWS
700 N. Tryon Street
Charlotte, N.C. 28202

Marc A. Houle, PE

Toney C. Jacobs, LSS

CWS Septic System Design Review

CWS File #: _____ Approved ☐ Disapproved ☐

Design Reviewer: _____ Date: _____

Field Inspector: _____ Date: _____

BACKGROUND

This lot has been turned down for an on-site septic system by MCHD, the decision upheld by the regional specialist, and Toney Jacobs. The house will be 4-bedroom so the design was made to pump to an off-site away from the waterfront. Water supply will be an on-site well. The off-site soil was evaluated to a depth of 48 inches and found to have usable soil. Soils described by Jacob Presley, LSS with MCHD and Toney Jacobs.

The proposed system will be a Type III(b) and does not require a maintenance contract with a certified operator. Plan does require engineering certification because of horizontal run and this is included in design. Surveying and recording for off-site by Yarbrough-Williams & Houle Surveying.

APPLICATION INFORMATION

1. Prepared for:

Owner:	Bill Hodges LKW Properties, LLC 17224 Due West Drive Charlotte, North Carolina 28278
Engineer:	Marc A. Houle, PE Yarbrough-Williams & Houle, Inc 704 556-1990
Soil Scientist and Designer:	Toney C. Jacobs, LSS Jacobs On-Site Development, Inc. 704 662-9845

2. Water supply is provided by an on-site well (shown on site plan).
3. Facility to be served by the proposed system is a 4-bedroom single family residence with a walkout basement.

LOCATION

The property is located off Youngblood Road, on the right, near the end of Due West Dr.

REFERENCES

Law and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment Health and Natural Resources, August 1, 1998.

CONSTRUCTION NOTES

Both the initial and repair systems areas are remotely located and should not be subject to any construction activities occurring on the lot. Access to the drainfield will be only for installation. This should preserve this valuable asset to home construction. Should questions arise about this report, clearing, or grading, ask!

PLANS AND SPECIFICATIONS FOR SPECIFIC SYSTEM COMPONENTS

Septic Tank

1. The 1500 gallon State approved septic tank receives wastewater directly from the house.
2. A septic tank shall be watertight, structurally sound, and not subject to excessive corrosion or decay.
3. The septic tank must be of two-compartment design for maximum solids retention. The inlet compartment of two-compartment tank shall hold between two-thirds and three-fourths of the total tank capacity.
4. Effluent from the two-compartment septic tank flows by gravity through a State approved effluent filter and a four-inch solid PVC pipe to the pumping tank.
5. Both the septic tank and pumping tank must be provided with above ground approved manhole risers to provide easy access for clean-out and pump service.
6. When prefabricated concrete tanks or tanks of other material are used, they shall be constructed in accordance with the plans which have been approved by the State and shall comply with all requirements of Section .1953 of 15A NCAC 18A.
7. On the outlet tee of the septic tank an effluent filter must be installed. This filter should be equivalent to a Zabel Model A1800 or other State approved unit supplied by the tank manufacturer.

Pumping Tank

1. The 1500 gallon State approved pumping tank shall have an access manhole extending at least 6 inches above finished grade.
2. A septic tank effluent pump that will not be corroded by sewage shall be used in the pumping tank.
3. The pump must be placed on two concrete blocks set next to each other on the bottom of the tank. This prevents the pumping of any solid particles that can clog the system.
4. A piece of nylon rope or other non-corrodible material should be attached to the pump and to the outlet pipe for lifting the pump in and out of the chamber.
5. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all time.
6. The pump outlet pipe should be connected to the supply manifold with a threaded PVC union to allow quick removal.
7. Pump and Simplex control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least 12 inches above finished grade. Pump control (Simplex) may be mounted on side of house if long cord pump is used. The pump shall be manually operable without requiring the use of special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through water proof, gas proof, and corrosion-resistant conduits, with no splices or junction boxes provided inside the tank. Wire grips, duct seal or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure. There shall be two electric circuits for controls: one for pump power, one for the alarm. These will require 2 circuit breakers.

8. The pump tank shall have a properly functioning high-water alarm. The alarm circuit shall be supplied ahead of any pump overload and short circuit protective devices. It should be on a separate electrical circuit from the pump power line. The alarm shall be audible and visible by system users and included in the pump and control enclosure (Simplex Panel). The alarm is activated if the water level in the pump tank rises above the "pump-on" float control. The tank provides at least one day or more of excess storage capacity (depending on water use in the home) during which time the system must be repaired.
9. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
10. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps. For maintenance flexibility, tree must be used to set floats.
11. Approved pressure bell may be used with compatible panel 8, 9, 10 above.
12. Watertight testing per .1900 rules shall be required on two piece pump tanks.
13. Wiring between the pumping tank and the house should meet State and local code requirements.

Pipe and Fittings

1. All pipes and fitting should be made of SCH 40 PVC.
2. All joints must be sealed with appropriate PVC-solvent cement.
3. There should be a threaded PVC union above the pump to allow easy removal or replacement.
4. A gate valve for final pressure adjustment is installed in the supply line inside the manifold box.
5. Manifold and valve as shown in specifications.

CONSTRUCTION INSTALLATION

Site Preparation

1. One of the most important concerns for an on-site system is to protect the site from soil disturbance. This site should have supervised tree removal to minimize soil disturbance. Other than tree removal, leveling should not be required.
2. The absorption field area has been designed so it should not be subject to any construction traffic.

Tank Installation

1. The two-compartment septic tank is installed.
2. The pumping tank is installed next to the septic tank.
3. The tanks are connected with an appropriate length of solid, four-inch PVC pipe.

Supply Manifold

1. The supply manifold conveys effluent from the pump to the distribution laterals.
2. Design of the manifold is shown on attached diagrams.

3. After the supply manifold has been placed in its trench and lateral lines connected, it should be backfilled with tightly tamped soil. The supply manifold trench must not be backfilled with gravel, or the trench may become a conduit for downslope flow effluent from the laterals.

25% Reduction Laterals

1. Install per cited reference material and this plan.
2. Trenches shall be 36" wide equivalent, and 9' minimum on center. Trenches shall be "level" from end to end.
3. Trench bottoms should not exceed 24 inches on the low side.

PROPER OPERATION CHECK AND PRESSURE HEAD ADJUSTMENT

1. After all connections have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pump tank with a garden hose until the liquid rises to the level of the high-water alarm float.
2. Turn on the electrical power. The alarm light should go off when the liquid level falls below the high-water float. The pump should turn off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.
3. The pressure head is measured as the height liquid will rise above the manifold.

FINAL LANDSCAPING

1. After the system is installed, the following should be checked to ensure that the system will not be overloaded with excess rainwater and runoff. The distribution field is shaped to shed rainwater and is free of low areas.

2. Finally, the entire area should be planted with grass in order to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized before planting. After applying an appropriate grass seed, the area should be heavily mulched with straw or other suitable material.

QUALITY ASSURANCE REQUIREMENTS

The system must be installed by a qualified and competent contractor. Critical stages of the installation which should be checked are:

1. System layout and careful cutting of the top to get a consistent slope on the landscape.
2. Septic and pump tank installation prior to backfilling.
3. Manifold and lateral installation prior to backfilling.
4. Final landscaping, operation and pressure head check.

The system design is based on a maximum waste flow of 480 gallons per day. Homeowners should pay particular attention to the section titled Homeowner Suggestions for ways to minimize the burden on the system.

OPERATION AND MAINTENANCE PROCEDURE

The system is classified as Type III(b) and DOES NOT require a maintenance contract with a certified operator. Management is recommended, but is not required by code. If not managed homeowner should check or be aware of the following:

- Septic system shall be pumped every 4 years or when solids accumulate to 1/3 the volume of the tank.
- At 6-month intervals, inspect the effluent filter. When washing the filter, debris must be sprayed directly back into the septic tank and not onto the lawn.
- Pressure head for manifold should be checked and adjusted after installation and semi-annually thereafter.
- All piping and fittings shall be checked annually for damage and/or proper operation and corrections made immediately.
- The property should be inspected to insure all surface water is diverted away from the fields and tank. Any ponding of surface water should be corrected.
- Grasses shall be mowed and maintained and any erosion shall be corrected promptly.
- The nitrification field area shall be checked for leakages, blowouts or malfunction, indications of damp or mushy areas compared to surrounding area or evidence of noticeable odor of sewage. Repairs shall be made immediately.
- The pump electrical should be checked to insure tight, clean connections with no corrosion and proper operation.
- Pump switches shall be checked for free operation and proper level set.
- Pump draw down depth and delivery rate shall be checked each year.
- Check septic tank and pump tank for evidence of damage or leakage. Check the quality of effluent including grease and sludge accumulation.

HOMEOWNER SUGGESTIONS

Most systems do not require much effort to operate and maintain. Even though the effort is small, the system must be maintained properly so that it operates reliably and at a minimum cost. Following are suggestions for the homeowner to minimize the burden on the septic system.

1. Garbage disposals should not be used in on-site systems. The ground garbage adds large amounts of solids to a septic tank, causing sludge to build up at a quicker rate than without. If disposal is installed, use should be limited.
2. Grease, cooking oils and coffee grounds should never be put into a septic tank.
3. Items such as disposable diapers, cigarettes, facial tissues and other solid or paper wastes should not be flushed into the on-site system.
4. Used motor oil and other such oily liquids should not be put into a septic tank.
5. Using less water can reduce the amount of water flowing to the treatment and disposal field.
6. Water-saving fixtures and devices can be installed on sinks, toilets and showers to reduce the rate at which the water flows from the fixture.
7. Dishwashers and washing machines should only be run with full loads.
8. Leaky faucets and toilets can add large volumes of water to the daily flow of water into

the on-site system. Repair the leaks to save water and give the treatment and disposal field a rest.

9. Roof drains, basement sump pumps, foundation drains, and other such drains should not empty into or onto the surface above the on-site system. These drains should be directed to another part of the lot away from the treatment and disposal field.

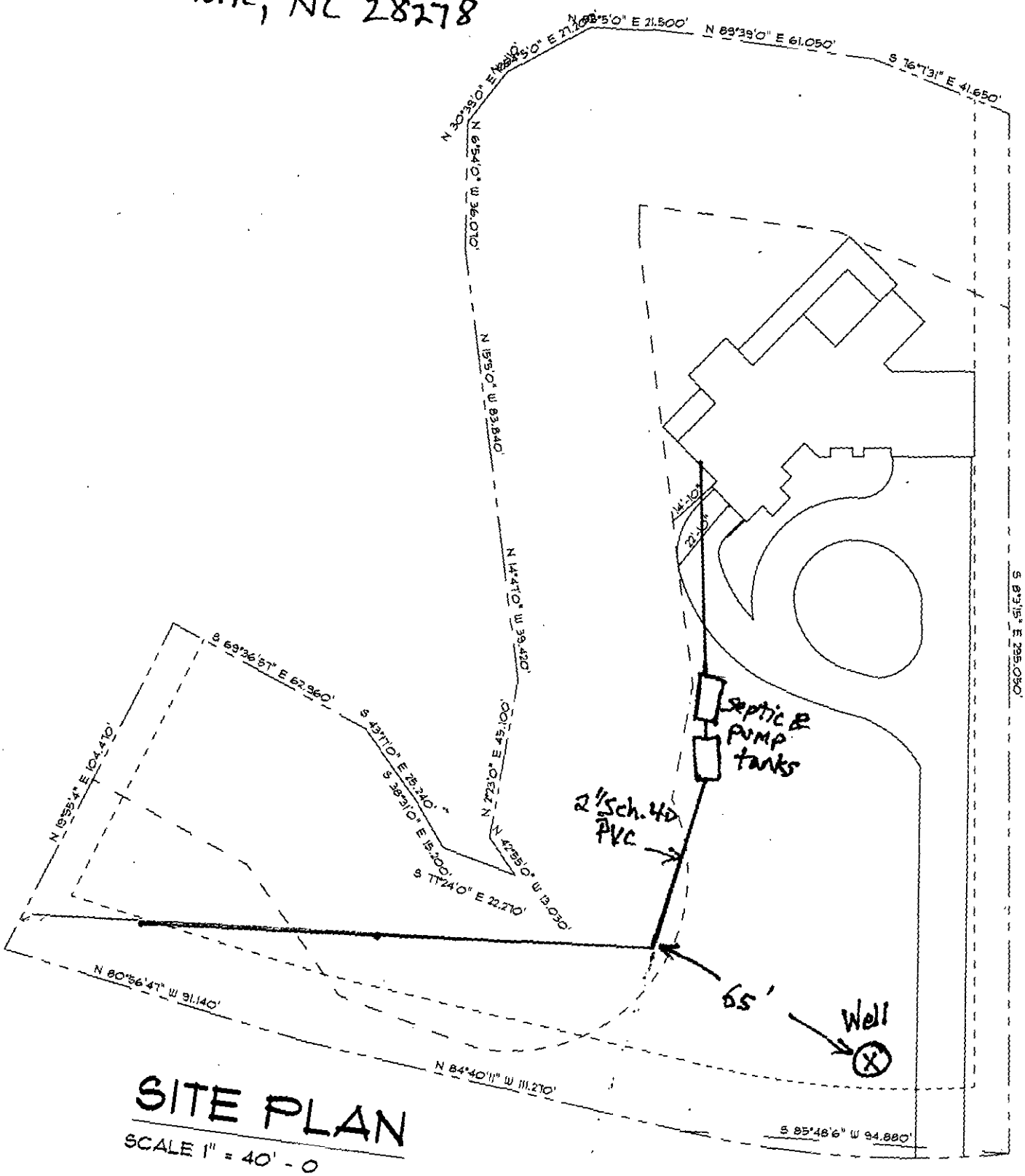
Design Specifications

17501 Due West Drive – Lot 126

file #8623B

Daily design flow:	480 gpd.
Septic tank size:	1500 gal. (2 compartments)
Pumping tank size:	1500 gal.
Effluent loading rate, Initial system	0.225 gpd/ft^2
Effluent loading rate, Repair system	0.225 gpd/ft^2
Total length and diameter of supply pipe:	approx. 950 ft. 2" SCH 40 PVC
Number and length of laterals:	3 @178', end fed from 3½" SCH 80 taps
Flow rate through the system:	16.5 gpm – 3 ½" SCH 80 taps from a 4" manifold
Elevation head:	Approx. 61' (to be verified by installer)
Pressure head:	2.0'
Friction head:	6.0'
20% contingency	13.8'
Total head:	82.8'
Pump requirements:	16.5 gpm at 82.8' of head; use Gould WE15HH pump or equivalent with compatible electrical
Dosing volume:	240 gal. – 2.0 doses/day at design flow
Depth of water pumped per dose:	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump run per dose:	approx. 14.5 min
Check valve:	yes
Siphon break hole:	no

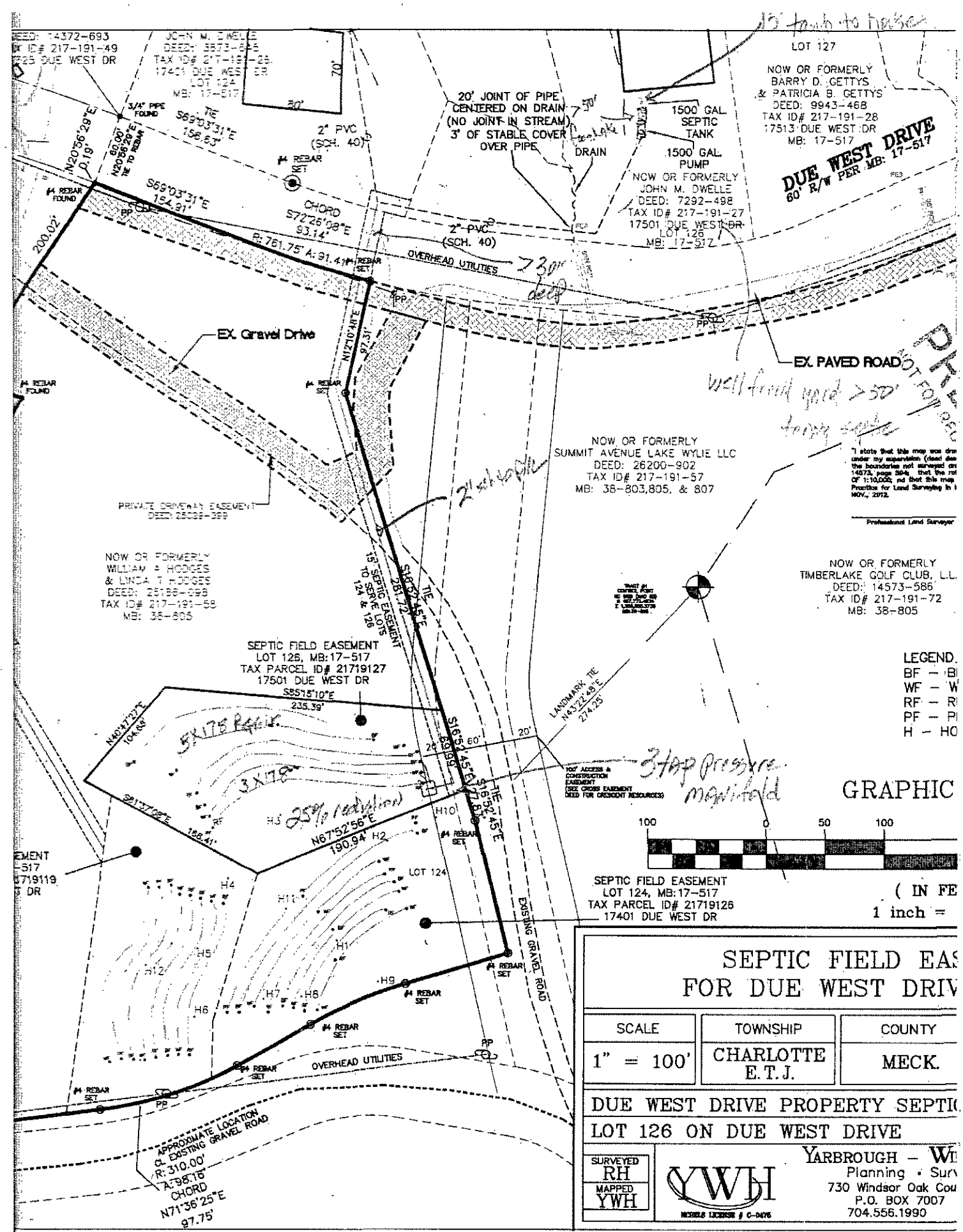
17501 Due West Dr.
Charlotte, NC 28278



SITE PLAN
SCALE 1" = 40' - 0

Well Permit Application

Well Permit Application


LOT 127
NOW OR FORMERLY
BARRY D. GETTYS
& PATRICIA B. GETTYS
DEED: 9943-468
TAX ID# 217-191-28
17513 DUE WEST DR
MB: 17-517
DUE WEST DRIVE
60' R/W PER MB: 17-517
20' JOINT OF PIPE CENTERED ON DRAIN (NO JOINT IN STREAM) 3' OF STABLE COVER OVER PIPE
1500 GAL. SEPTIC TANK
1500 GAL. PUMP
DRAIN
2" PVC (SCH. 40)
NOW OR FORMERLY
JOHN M. DWELLE
DEED: 7292-498
TAX ID# 217-191-27
17501 DUE WEST DR
LOT 126
MB: 17-517
3/4" PIPE FOUND
N20°56'29"E 0.19'
N20°56'29"E TIE TO REBAR
60.00'
S69°03'31"E 156.53'
S69°03'31"E 154.91'
CHORD S72°26'08"E 93.14'
R: 761.75' A: 91.41'
REBAR FOUND
REBAR SET
PP
200.02'
OVERHEAD UTILITIES
EX. Gravel Drive
EX. PAVED ROAD
N12°10'48"E 97.31'
NOW OR FORMERLY
SUMMIT AVENUE LAKE WYLIE LLC
DEED: 26200-902
TAX ID# 217-191-57
MB: 38-803,805, & 807
PRIVATE DRIVEWAY EASEMENT
DEED: 25088-399
NOW OR FORMERLY
WILLIAM A HODGES
& LINDA T HODGES
DEED: 25188-998
TAX ID# 217-191-58
MB: 38-805
15' SEPTIC EASEMENT TO SERVE LOTS 124 & 126
S16°52'45"E 281.72'
TIE
NOW OR FORMERLY
TIMBERLAKE GOLF CLUB, LLC
DEED: 14573-586
TAX ID# 217-191-72
MB: 38-805
SEPTIC FIELD EASEMENT
LOT 126, MB:17-517
TAX PARCEL ID# 21719127
17501 DUE WEST DR
S85°15'10"E 235.39'
N40°37'22"E 104.68'
S01°37'08"E 168.41'
S16°52'45"E 69.99'
20'
LANDMARK TIE N43°22'48"E 274.25'
30' ACCESS & CONSTRUCTION EASEMENT (SEE CROSS EASEMENT DEED FOR CROSSOVER RESOURCES)
N67°52'56"E 190.94'
H1
H2
H3
H4
H5
H6
H7
H8
H9
H10
H11
H12
LOT 124
EXISTING GRAVEL ROAD
APPROXIMATE LOCATION OF EXISTING GRAVEL ROAD
℄
R: 310.00'
A: 98.16'
CHORD N71°36'25"E 97.75'
SEPTIC FIELD EASEMENT
LOT 124, MB:17-517
TAX PARCEL ID# 21719126
17401 DUE WEST DR
LEGEND
BF – B
WF – W
RF – R
PF – P
H – HO
GRAPHIC
100 0 50 100
1 inch =
SEPTIC FIELD EAS
FOR DUE WEST DRIV
SCALE
1" = 100'
TOWNSHIP
CHARLOTTE E.T.J.
COUNTY
MECK.
DUE WEST DRIVE PROPERTY SEPTIC
LOT 126 ON DUE WEST DRIVE
SURVEYED RH
MAPPED YWH
YWH
NCBELS LICENSE # C-0676
YARBROUGH – WI
Planning • Surv
730 Windsor Oak Cou
P.O. BOX 7007
704.556.1990

COPY

FILE COPY

FILED FOR REGISTRATION	DOC #
DATE 12/27/12	TIME 1:52pm
BOOK 27940	PAGE 457
STAMPS -0-	REC FEE $26.00

J. DAVID GRANBERRY
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC

Prepared by, and when recorded, return to:
Daniel R. Visalli, Esquire
Swindell Law, PLLC
227 West Trade Street, Suite 2030
Charlotte, North Carolina 28202

Excise Tax: $0.00 (No Consideration)

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

DECLARATION OF EASEMENTS FOR SEPTIC DRAIN FIELDS

THIS DECLARATION OF EASEMENTS FOR SEPTIC DRAIN FIELDS (the "Declaration") is made as of the 27th day of December, 2012 (the "Effective Date") by and among **WILLIAM A. HODGES and wife, LINDA T. HODGES**, residents of Mecklenburg County, North Carolina (jointly, the "Declarant") and **JOHN M. DWELLE**, resident of Mecklenburg County, North Carolina ("Dwelle").

RECITALS:

A. Declarant is the owner, in fee simple of all that certain real property located in Mecklenburg County, North Carolina and more particularly described on Exhibit A, attached hereto and incorporated herein (collectively, the "Easement Parcel" and as individually referenced in Exhibit A as "Easement Parcel 1" and "Easement Parcel 2";

B. Dwelle is the owner, in fee simple, of that certain real property located in Mecklenburg County, North Carolina and shown and designated as Lot 126, Section 43 on map recorded in Map Book 17, Page 517 of the Mecklenburg County Public Registry ("Lot 126");

C. Subject to, and in accordance with the terms and conditions of this Declaration, Declarant wishes to grant for the benefit of Lot 126 and burden to the Easement Parcel, easements for: (i) septic drain field improvements (the "Septic Field Improvements"), including, without limitation, installation of subterranean pipes and conduits and appropriate soil treatment area improvements, that are necessary and

appropriate to conduct normal household sanitary waste materials (the "Sanitary Waste Materials") from the residences on any benefitted parcel (each a "dominant estate") to and through any burdened parcels (each a "servient estate") as set forth herein; (ii) temporary, defeasible easements for encroachment of the Septic Field Improvements into the Easement Parcel and for flow and discharge of the Sanitary Waste Materials through the Septic Field Improvements and into the Easement Parcel; and (iii) a temporary, defeasible easement for pedestrian and certain limited vehicular access to the Easement Parcel and Lot 126, as applicable, in order to undertake construction, maintenance, repair and removal of the Septic Field Improvements.

NOW, THEREFORE, in consideration of the Recitals (which, by this reference, are incorporated into the operative and enforceable provisions of this Declaration), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by Declarant, and, intending to be legally bound, Declarant and Dwelle hereby covenant, declare, grant and agree as follows:

1. Grant of Easements for the benefit of Lot 126. Subject to the defeasance provisions set forth in Section 2 of this Declaration, Declarant hereby declares, imposes and grants for the benefit of Dwelle, and Dwelle's sucessors-in-title to Lot 126, to have to and to hold, the following easements:

1.1 Easement for Construction and Installation: A temporary, defeasible easement for the construction and installation of the Septic Field Improvements that are necessary and appropriate to conduct the Sanitary Waste Materials from the residential improvements on Lot 126 to and through Easement Parcel 2; provided, however, that, (i) all such Septic Field Improvements shall be designed to accommodate all anticipated Sanitary Waste Materials to be generated from the residential improvements on Lot 126 without backup or overflow discharge onto the surface of any portion of the Easement Parcel; and (ii) all Septic Field Improvements shall be constructed and installed in trenches beneath the surface of Easement Parcel 2 within the areas shown and designated on Exhibit B, attached hereto and incorporated herein, as the "15' Septic Easement to Serve Lots 124 and 126" and "Septic Field Easement for the benefit of Lot 126", and shall be covered with soil and graded to original slope and contour such that no such improvements shall be visible from any portion of the Easement Parcel.

1.2 Easement for Encroachment and Discharge: A temporary, defeasible easement for encroachment of the Septic Field Improvements into the Easement Parcel in that area shown and designated on Exhibit B, attached hereto and incorporated herein, as the "15' Septic Easement to Serve Lots 124 & 126" for the flow, discharge and decomposition of the Sanitary Waste Materials to the septic field in the area shown and designated on Exhibit B as the "Septic Field Easement for the benefit of Lot 126"; provided, however, that Sanitary Waste Materials shall not in any event include any materials or substances that would otherwise be classified as Hazardous Substances (as defined in Section 4.1, below).

1.3 Easement for Pedestrian and Limited Vehicular Access for Maintenance, Repair and Removal: A temporary, defeasible easement for pedestrian and limited

vehicular access to the Easement Parcel 2 in order to maintain, repair and remove the Septic Field Improvements. The vehicular access shall be limited only to: (i) such construction vehicles and equipment as are reasonably necessary to construct, install and, as appropriate, remove the Septic Field Improvements and restore the Easement Parcel to the condition required in Section 3 of this Declaration upon defeasance of the Easements granted herein; and (ii) light-duty trucks and other equipment as are reasonably necessary to maintain and repair the Septic Field Improvements while this Declaration remains in effect.

1.4 Estates Created by this Easement. For purposes of the easements granted in this Section 1, the Easement Parcel 2 shall be the servient estate and Lot 126 shall be the dominant estate.

2. Defeasance of Easements.

2.1 Public Utility Defeasance. Any individual grant or imposition of easement set forth in Section 1 above shall automatically terminate and forever be of no further force and effect as to an individual benefitted parcel on the date that is one (1) year after the date that Lot 126 connects to a public utility sewer line constructed and installed either by any municipal, city, or county governmental agency or by any private party that dedicates such line to public use and that any appropriate municipal, city or county governmental agency accepts for maintenance said public line from Lot 126.

2.2 Limitation on Termination. Except for a termination pursuant to Section 2.1 above, this Declaration may not be altered, amended or cancelled without the express written permission of the Mecklenburg County Health Department, which written permission must be part of any document recorded to alter, amend or cancel this Easement.

3. Removal and Restoration. In the event of defeasance pursuant to Section 2.1, the owner of the dominant estate, for themselves and their successors in title, covenant and agree, within (30) days of the date in which the easement will so terminate pursuant to Section 2.1: (i) to disconnect the residential improvements on the applicable parcel from the Septic Field Improvements; (ii) to remove the Septic Field Improvements from the servient estate; and (iii) to restore the servient estate to its natural condition, contour and slope by filling and grading all excavations necessary for removal of the Septic Field Improvements. If such owner fails or refuses to comply with the provisions of this Section 3 within the time period set forth above, Declarant shall have the right, but not the obligation, to undertake such removal and restoration, and all costs incurred by Declarant in relation thereto, including, without limitation, court costs and attorneys' fees, shall constitute a common law lien against the dominant estate which shall be enforceable by Declarant if repayment of such costs is not received by Declarant from the owner of the applicable dominant estate within thirty (30) days after proof of payment has been provided by Declarant to said owner.

4. Indemnities.

4.1 Environmental Indemnity. By execution this Declaration, the owner of the dominant estate agrees, for themselves and for any successors in title to said dominant estate (which, by acceptance of a deed of conveyance of the applicable dominant estate shall be deemed to agree) to indemnify and hold harmless Declarant and their heirs, personal representatives, successors and assigns (each an "Indemnified Party") from and against, and, if and to the extent paid, reimburse them on demand for, any and all Environmental Damages (defined below) resulting from any discharge (each, an "Unlawful Discharge") of any Hazardous Substances (defined below) into the Easement Parcel from or through the Septic Field Improvements. Upon demand by an Indemnified Party, the owner of an applicable dominant estate at the time of the Unlawful Discharge (the "Indemnifying Party") shall: (1) diligently remediate any Unlawful Discharge in accordance with the requirements of applicable law; (2) defend by counsel selected by the Indemnifying Party any environmental claim which affects the Easement Parcel or is made or commenced against an Indemnified Party as a result of an Unlawful Discharge; and (3) promptly reimburse any Indemnified Party for any damages incurred as a result of, or liability arising out of, an Unlawful Discharge, all at the Indemnifying Party's cost and expense. As used in this Section 6: (A) the term "Environmental Damages" means all claims, demands, liabilities (including strict liability), losses, damages (including consequential damages), causes of action, judgments, penalties, fines, costs and expenses (including fees, costs and expenses of attorneys, consultants, contractors, experts and laboratories), of any and every kind or character, contingent or otherwise, matured or unmatured, known or unknown, foreseeable or unforeseeable, made, incurred, suffered, brought, or imposed at any time and from time to time, as a result of an Unlawful Discharge; and (B) the term "Hazardous Substances" means concentration levels of any substance, whether solid, liquid or gaseous, which is listed, defined or regulated as a "hazardous substance", "hazardous waste" or "solid waste", or otherwise classified as hazardous or toxic, or which is or contains asbestos, radon, any polychlorinated biphenyl, urea formaldehyde foam insulation, explosive or radioactive material, or motor fuel or other petroleum hydrocarbons; or which causes or poses a threat to cause a contamination or nuisance and that any applicable governmental authority would require the party responsible for the discharge thereof to remediate.

4.2 General Indemnity. By acceptance and execution of this Declaration, any owner of each dominant estate, for themselves and for any successors in title to a dominant estate (which, by acceptance of a deed of conveyance of the applicable dominant estate shall be deemed to agree) to indemnify and hold harmless each Indemnified Party from and against, and, if and to the extent paid, reimburse them on demand for, any and all claims, demands, liabilities (including strict liability), losses, damages (including consequential damages), causes of action, judgments, penalties, fines, costs and expenses (including fees, costs and expenses of attorneys, consultants, contractors, and experts), of any and every kind or character, contingent or otherwise, matured or unmatured, known or unknown, foreseeable or unforeseeable, made, incurred, suffered, brought, or imposed at any time and from time to time, by Declarant and arising from or relating to the construction, installation, maintenance, repair, or removal of the Septic Field Improvements or the discharge of the Sanitary Waste Materials into the Ease Parcel.

5. Effect of Grant of Easements. Each easement, right, privilege, and option made and granted by Declarant or Dwelle is made by Declarant or Dwelle for the benefit of any owner of any portion of any dominant estate and shall be appurtenant to and for the benefit of, and shall run with the land of, all portions of the applicable dominant estate and any current or future owner thereof, subject to the defeasance provisions set forth in Section 2. Any successor or successors in title to an owner of any portion of any servient estate shall automatically be deemed, by acceptance of the title to all or any portion of a servient estate, to have assumed all burdens of this Declaration relating thereto to the extent of its or their interest in such portion of the servient estate, subject to all the provisions of this Declaration.

6. Non-Dedication. Nothing contained in this Declaration shall be deemed to be a gift or dedication of any portion of the Easement Parcel to the general public or for any public use or purpose whatsoever, it being the intention of the parties hereto and their successors and assigns that nothing in this Declaration, expressed or implied, shall confer upon any person other than the owners from time to time of any portion of any applicable dominant estate and their successors in title any rights or remedies under or by reason of this Declaration.

7. Invalidity. If any provision of this Declaration, or portion thereof, or the application thereof to any person or circumstances, shall, to any extent, be held invalid, inoperative or unenforceable, the remainder of this Declaration or the application of such provision or portion thereof to any other persons or circumstances shall not be affected thereby. It shall not be deemed that any such invalid provision affects the consideration for this Declaration, and each provision of this Declaration shall be valid and enforceable to the fullest extent permitted by law.

8. Governing Law. This Declaration shall be governed by and construed in accordance with the laws and judicial decisions of the State of North Carolina.

9. Headings. The section headings in this Declaration are for convenience only, shall in no way define or limit the scope or content of this Declaration, and shall not be considered in any construction or interpretation of this Declaration or any part hereof.

10. Assignment. No owner of any dominant estate shall have the right to assign any right, benefit or interest created by this Declaration to any third party.

11. Counterparts. This Declaration may be executed in counterparts, together which, shall be deemed a complete instrument.

[EXECUTION ON FOLLOWING PAGES]

IN WITNESS WHEREOF, Declarant and Dwelle have executed this Declaration as of the day and year first above written.

DECLARANT:

William A. Hodges

Linda T. Hodges

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

I certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated: William A. Hodges and Linda T. Hodges.

Date: 12/27/12

Printed or Typed Name: Daniel R. Visalli
Notary Public

My commission expires: 2/13/2016

[Official Stamp/Seal]

DANIEL R. VISALLI
NOTARY
MY COMMISSION EXPIRES
2/13/2016
PUBLIC
MECKLENBURG COUNTY, NC

IN WITNESS WHEREOF, Declarant and Dwelle have executed this Declaration as of the day and year first above written.

DWELLE:

John M. Dwelle

Sue McEntire Dwelle, hereby executes this Declaration to the extent necessary to consent to the easements affecting any real property owned by Dwelle as to her marital rights therein.

Sue McEntire Dwelle

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

I certify that the following person(s) personally appeared before me this day, each acknowledging to me that he or she voluntarily signed the foregoing document for the purpose stated therein and in the capacity indicated: John M. Dwelle and Sue McEntire Dwelle. .

Date: 12/27/12

Printed or Typed Name: Daniel R. Visalli
Notary Public

My commission expires: 2/13/2016

[Official Stamp/Seal]

DANIEL R. VISALLI
NOTARY
MY COMMISSION EXPIRES 2/13/2016
PUBLIC
MECKLENBURG COUNTY, NC

Exhibit A
Legal Description

EASEMENT PARCEL 1:

That certain real property located in Steele Creek Township, Mecklenburg County, State of North Carolina and more particularly described as follows:

ALL of Lot 1 of the survey entitled, "Final Plat of Grasshopper Plat 2", dated August 11, 2000, recorded as Map Book 34, Page 354 of the Mecklenburg County Public Registry;

LESS AND EXCEPT that certain .9772 acre portion of Lot 1 described in deed recorded in Book 23280, Page 931 of the Mecklenburg County Public Registry; said property bearing Mecklenburg County Tax ID No. 217-191-74.

EASEMENT PARCEL 2:

That certain real property located in Steele Creek Township, Mecklenburg County, State of North Carolina and more particularly described as follows:

BEGINNING at a #4 rebar located in the easterly margin of the 60' right of way of Grasshopper Lane, said #4 rebar located in the Southeast corner of Lot 1 of the Grasshopper Plat 2 property owned by William A. Hodges and Linda T. Hodges as shown on map thereof recorded in Map Book 34 at Page 354 in the Mecklenburg Public Registry and running thence from said Beginning Point with two (2) lines of said Lot 1 as follows: (1) North 33-53-40 East 489.91 feet (passing a #4 rebar at 183.02 feet) to a #4 rebar found and (2) North 71-33-22 West 51.99 feet to a one inch pipe located in the southeast corner of the property conveyed to William A. Hodges and Linda T. Hodges by Deed recorded in Book 17775, Page 935 in said Registry; thence with the Hodges property North 33-50-12 East 200.02 feet to a #4 rebar found; thence North 20-56-29 East 0.19 feet to a point in the southerly margin of the 60' right of way of Due West Drive as shown on map recorded in Map Book 17 at Page 517, in the said Registry; thence with said southerly margin of the right of way of Due West Drive (2) calls and distances as follows: (1) South 69-03-31 East 154.91 feet to a point and (2) in an easterly direction with the arc of a circular curve to the left having a radius of 761.75 feet, an arc distance of 91.41 feet (chord bearing and distance of South 72-26-08 East 93.14 feet) to a #4 rebar set; thence South 12-10-48 West 97.31 feet to a #4 rebar set; thence South 16-52-45 East 379.58 feet to a #4 rebar set; thence South 14-01-00 East 115.77 feet to a #4 rebar set; thence South 73-07-15 West 90.46 feet to a #4 rebar set; thence in a southwesterly direction with the arc of a circular curve to the left having a radius of 390.00 feet, an arc distance of 87.50 feet (chord bearing and distance of South 66-41-37 West 87.32 feet) to a #4 rebar set; thence South 60-15-58 West 71.96 feet to a #4 rebar set; thence in a southwesterly direction with the arc of a circular curve to the right having a radius of 310.00 feet, an arc distance of 122.72 feet (chord bearing and distance of South 71-36-25 West 121.92 feet) to a #4 rebar set; thence South 82-56-52 West 116.56 feet to a #4 rebar set; thence North 89-40-40 West 24.61 feet to a point in the northeasterly margin of the 60' right of way of Grasshopper Lane as shown on map recorded in Map Book 17 at Page 516 in said registry; thence with said margin of the right of way of Grasshopper Lane three (3) calls and distances as follows: (1) North 35-19-23 West 85.62 feet to a #4 rebar set, (2) in a northwesterly direction with the arc of a circular curve to the left having a radius of 539.34 feet, an arc distance of 209.12 feet (chord bearing and distance of North 46-25-55 West 207.81 feet) to a #4 rebar set and (3) North 57-32-23 West 1.45 feet to the point or place of BEGINNING, containing 7.521 acres as shown on Boundary Survey of the Due West Drive Tract Map for William A. Hodges dated October 14, 2009 by Joseph F. Whaley, Jr., N.C.P.L.S., to which survey reference is hereby made.

Easement Parcel 1 and Easement Parcel 2 are referenced jointly in the Declaration as the "Easement Parcel".

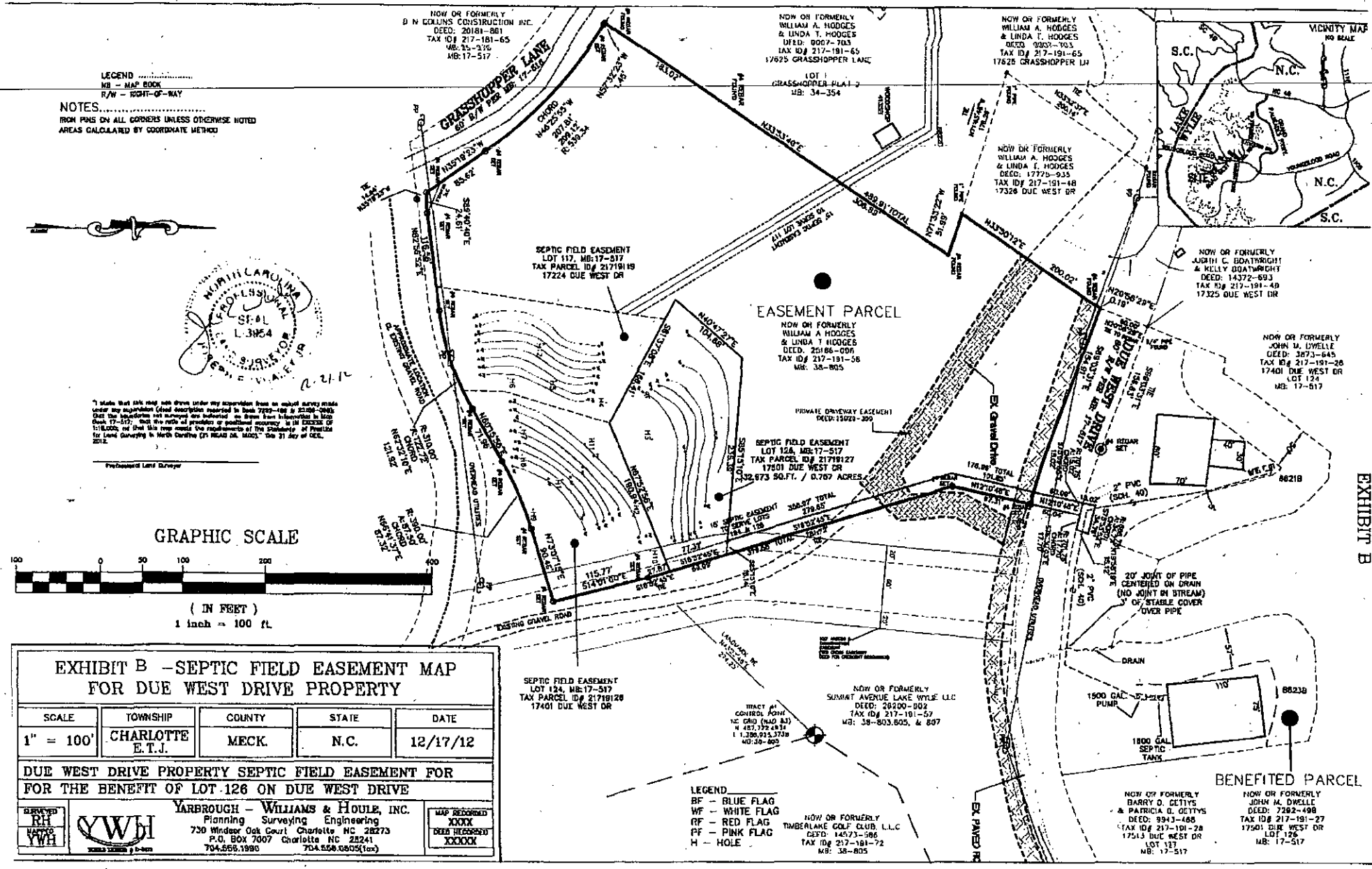


EXHIBIT B –SEPTIC FIELD EASEMENT MAP FOR DUE WEST DRIVE PROPERTY

SCALE	TOWNSHIP	COUNTY	STATE	DATE
1" = 100'	CHARLOTTE E.T.J.	MECK.	N.C.	12/17/12

DUE WEST DRIVE PROPERTY SEPTIC FIELD EASEMENT FOR
FOR THE BENEFIT OF LOT 126 ON DUE WEST DRIVE

SURVEYED RH
MAPPED YWH

YARBROUGH – WILLIAMS & HOULE, INC.
Planning Surveying Engineering
730 Windsor Oak Court Charlotte NC 28273
P.O. BOX 7007 Charlotte NC 28241
704.588.1998 704.588.0805(fax)

MAP RECORDED XXXX
DEED RECORDED XXXXX

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30005895** GWS File #: **8623B** Tax Parcel #: **217-191-27**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Not Expire with Plat Provided **Expiration Date (If Applicable):** N/A

Type of Installation: Residential - New System Lot Number: 126

Structure Type: HOUSE Size (ft^2): 6400 # Bedrooms: 4 # Occupants: 8

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: Pump to Approved **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.225	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1600	Total Trench Length (ft):	533
Maximum Trench Depth (in):	33	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Pump to Approved **System Classification:** IIIb

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.225	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1600	Total Trench Length (ft):	533
Maximum Trench Depth (in):	33	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jacob Presley Owner/Legal Agent: Tonya C Jacobs
Print Name

Signature: Signature:

Date Issued: 1/3/2013

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30005895** GWS File #: **8623B**

IV. Permit Conditions/Comments:

- Easement agreement forms shall be on file and the property shall be deeded and recorded prior to issuance of Construction Authorization.
- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- All components of the septic system must be located a minimum distance from the normal pool elevation or mean high water mark for the nearby body of water. See plot plan for minimum setback requirements.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The supply pipe shall be installed with a minimum of 30" of compacted cover over the pipe or properly sleeved under areas that are subject to vehicular traffic.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

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- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jacob Presley

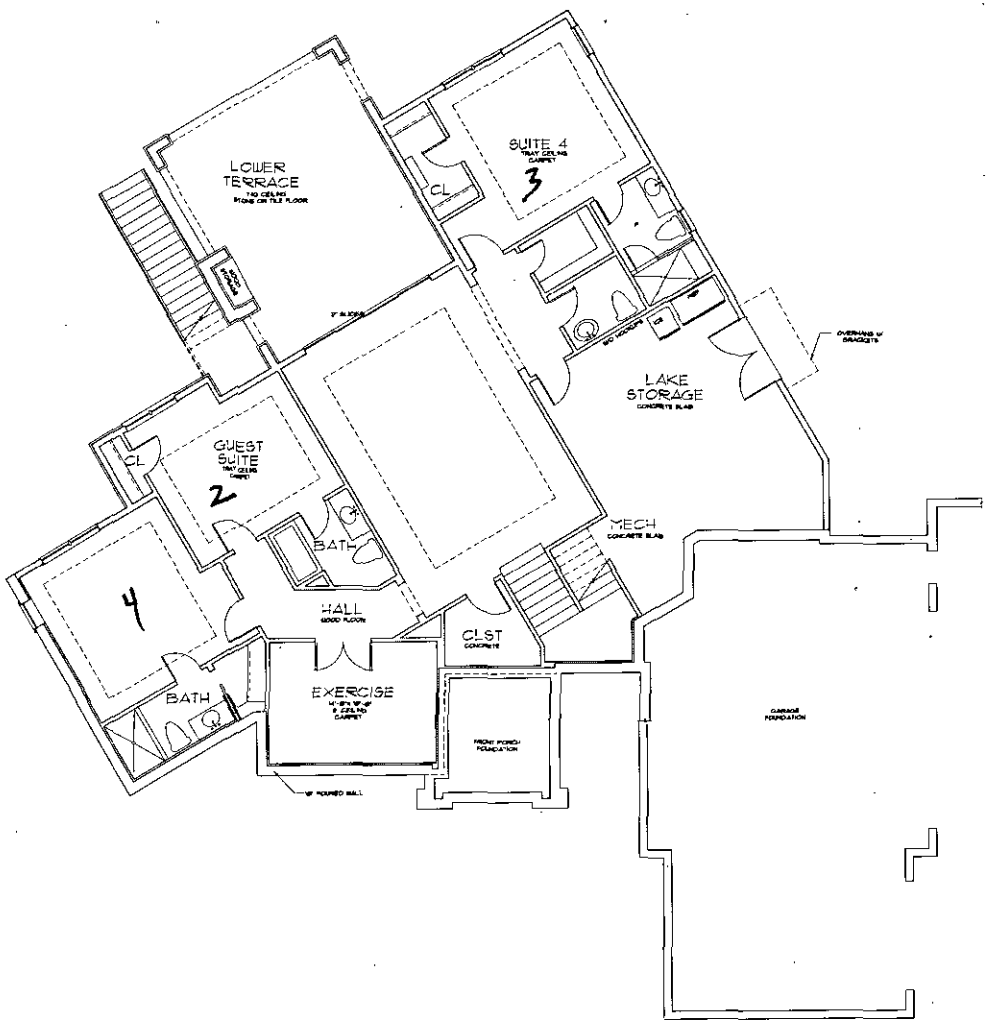
Signature: _____

Date Issued: 1/3/2013

Owner/Legal Agent: Jeremy C Jacobs
Print Name

Signature: _____

17501 Due West Dr.
File # 8623B



*TYPICAL BASEMENT SLAB TO BE 4" THICK CONCRETE W/ 6x6 W1.4/W1.4 WELDED WIRE MESH OR FIBER MESH OVER VAPOR BARRIER OVER 4" COMPACTED GRAVEL SUBB

*FOUNDATION WALL TO BE 10" POURED

*TYPICAL EXTERIOR FOOTING TO BE 24"x10" THICK WITH 2-#4 BARS CONTINUOUS (U.N.O.N.)

*SLAB INSULATION TO BE R-5 MINIMUM 2' AT PERIMETER OF FOUNDATION WALL

*INDICATES BLOCKING NON ABOVE CONCENTRATED LOADS AND ROOF BRACING POINT LOADS UNLESS NOTED OTHERWISE

*PROVIDE FOUNDATION DRAIN ON FILL SIDE OF WALL + DRAIN TO DAYLIGHT

*STUB IN PLUMBING FOR ALL FUTURE AREAS

*PROVIDE BEAM POCKET IN POURED WALL IF REQUIRED FOR BEARING OF DROPPED BEAM

*BUILDER TO LOCATE HVAC (E)

CRAWL NOTES

*TYPICAL FOOTING TO BE 24"x10" CONTINUOUS CONCRETE FOOTING U.N.O.

*ALL GIRDERS TO BE MIN. 2"
* ALL FLOOR JOISTS TO BE MIN. OF 16" FROM GRADE OF CRAWL SPACE

*EXCAVATION OF CRAWL MAY BE NECESSARY TO MAINTAIN MINIMUM CLEARANCES TO FLOOR SYSTEM. BUILDER HAS OPTION OF CONSTRUCTING DROPPED FLOOR AREAS ON ELEVATED SLAB.

*UTILIZE 3' BLOCK AT SPECIFIED LOCATIONS TO PROVIDE A 4" LEDGE FOR BRICK / CONCRETE SLAB.

*SLAB INSULATION TO BE R-5 MINIMUM 24" AT PERIMETER OF FOUNDATION WALL

*TERMITE CONTROL SHALL BE BY CHEMICAL SOIL TREATMENT OR OTHER METHODS APPROVED BY THE NORTH CAROLINA DEPT. OF AGRICULTURE

* INDICATES BLOCKING NON ABOVE CONCENTRATED LOADS AND ROOF BRACING POINT LOADS U.N.O.

*ALL GIRDERS TO BE 6"X6" -1

*BUILDER TO LOCATE CRAWL ACCESS

*BUILDER TO LOCATE HVAC UNITS AS REQUIRED

*BUILDER TO PROVIDE VENTS AS REQUIRED

Square Footage

3-28-14

Main Level Heated	2,169 SqFt.
Lower Level Heated	1,880 SqFt.
Total Heated	4,049 SqFt.
Covered Entry	101 SqFt.
Covered Terrace	29 SqFt.
Three Car Garage	928 SqFt.
Lake Storage	404 SqFt.
Lower Terrace	383 SqFt.
Total Under Roof	6,62 SqFt.

ashley j design
custom homes and renovations
P.O. BOX 5725 CHARLOTTE, NC 28299
WWW.ASHLEYJDESIGN.COM
704.608.0131

ENGINEER

Hartigan Design Engineering PC
[illegible]
Charlotte, NC 28269
Cell 704.[illegible]
[illegible]

IMPORTANT NOTE ABOUT PLAN ACCURACY:
THERE HAS BEEN REASONABLE CARE AND PROFESSIONAL SKILL IN PREPARATION AND EXECUTION OF THESE DOCUMENTS BUT NO GUARANTEE OF "PERFECT" DOCUMENTS OR FLAWLESS JUDGEMENT. BUILDER & TRADES MUST CAREFULLY INSPECT ALL DIMENSIONS & DETAILS FOR ACCURACY AND ASSUMES COMPLETE RESPONSIBILITY FOR THEM. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF G.C. PRIOR TO CONSTRUCTION.

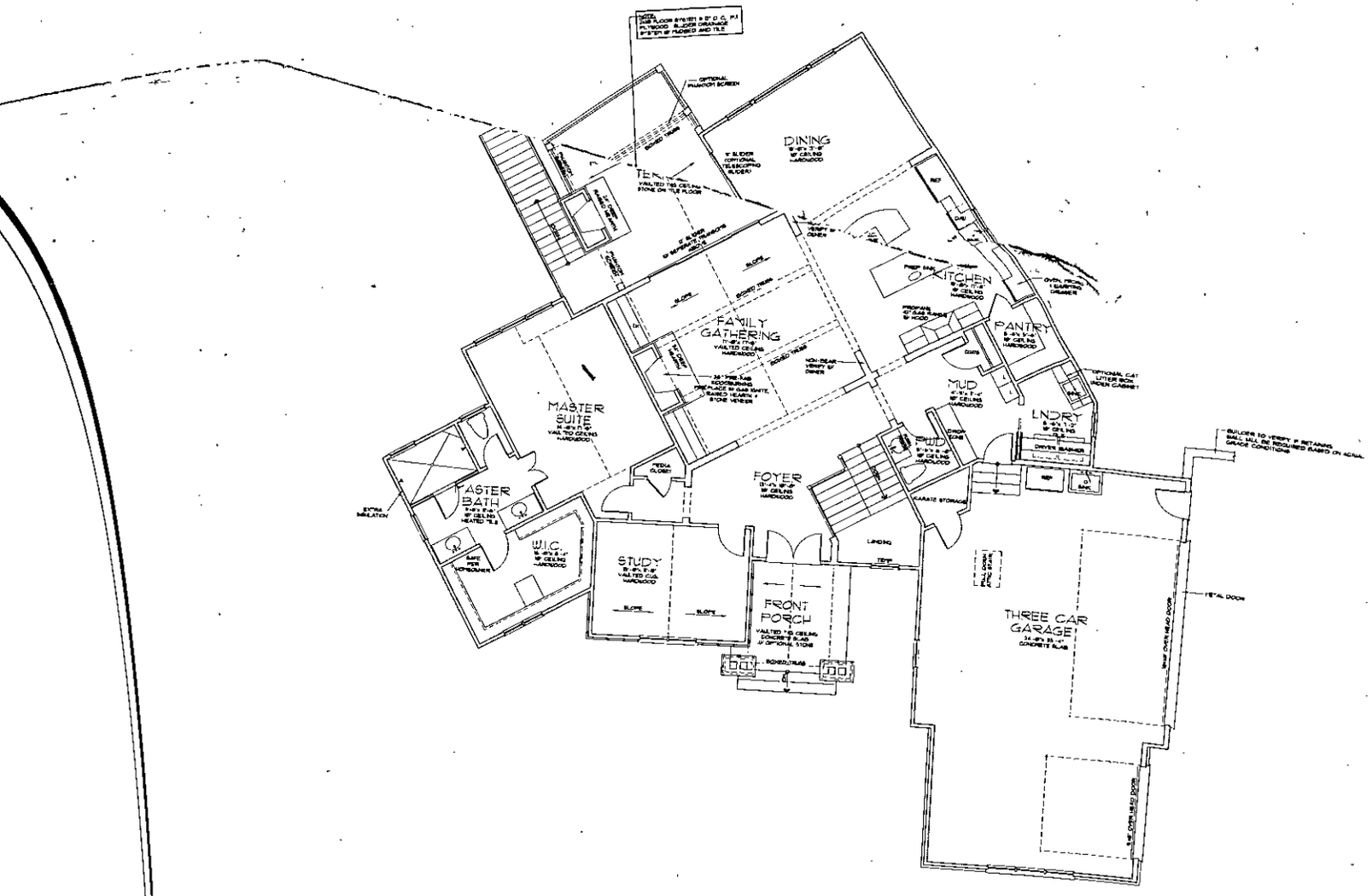
PROJECT:
WINFREE RESIDENCE

3/7/14	FLOORS AND ELEVATIONS
3/20/14	FLOORS AND ELEVATIONS (REV.)

DRAWING:
FLOOR PLAN

SCALE: 1/4" = 1'-0"

PAGE:
4



MAIN FLOOR NOTES

ALL ANGLED WALLS ARE 45 UNO.

16" MINIMUM BLOCKING FOR ABOVE CONCENTRATED LOADS AND BEARING POINT LOADS UNO

WIRE CHORAL NOTE & ON REMARKS NOTES FOR OTHERWISE NOTED ON PLAN.

ALL DOORS ARE 2'-8"x6'-8" WALL UNLESS OTHERWISE NOTED

EXTERIOR WALL SELECTION	STUD SIZE/SPACING
9'-1" WP	2x6 @ 16" o/c
10'-1" to 11'-1" WP	2x6 @ 16" o/c
11'-2" to 12' WP	2x6 @ 16" o/c
12'-1" to 13' WP	2x6 @ 16" o/c

GARAGE WALL TO BE 2x6 @ 16" o/c IF EXCEEDING 9' IN HEIGHT

Square Footage

3-26-14

Main Level Heated	2169 SqFt.
Lower Level Heated	1686 SqFt.
Total Heated	4,845 SqFt.
Covered Entry	101 SqFt.
Covered Terrace	78 SqFt.
Three Car Garage	529 SqFt.
Lake Storage	406 SqFt.
Lower Terrace	383 SqFt.
Total Under Roof	6,182 SqFt.

ashley j design
custom homes and renovations

ENGINEER:

IMPORTANT NOTE ABOUT PLAN LIABILITY:
THERE HAS BEEN REASONABLE CARE AND PROFESSIONAL SKILL IN PREPARATION AND EXECUTION OF THESE DOCUMENTS BUT NO GUARANTEE OF PERFECT DOCUMENTS OR FLAWLESS JUDGEMENT. BUILDER & TRADES MUST CAREFULLY INSPECT ALL DIMENSIONS & DETAILS FOR ACCURACY AND ASSUMES COMPLETE RESPONSIBILITY FOR THEM. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF A.J.D. PRIOR TO CONSTRUCTION.

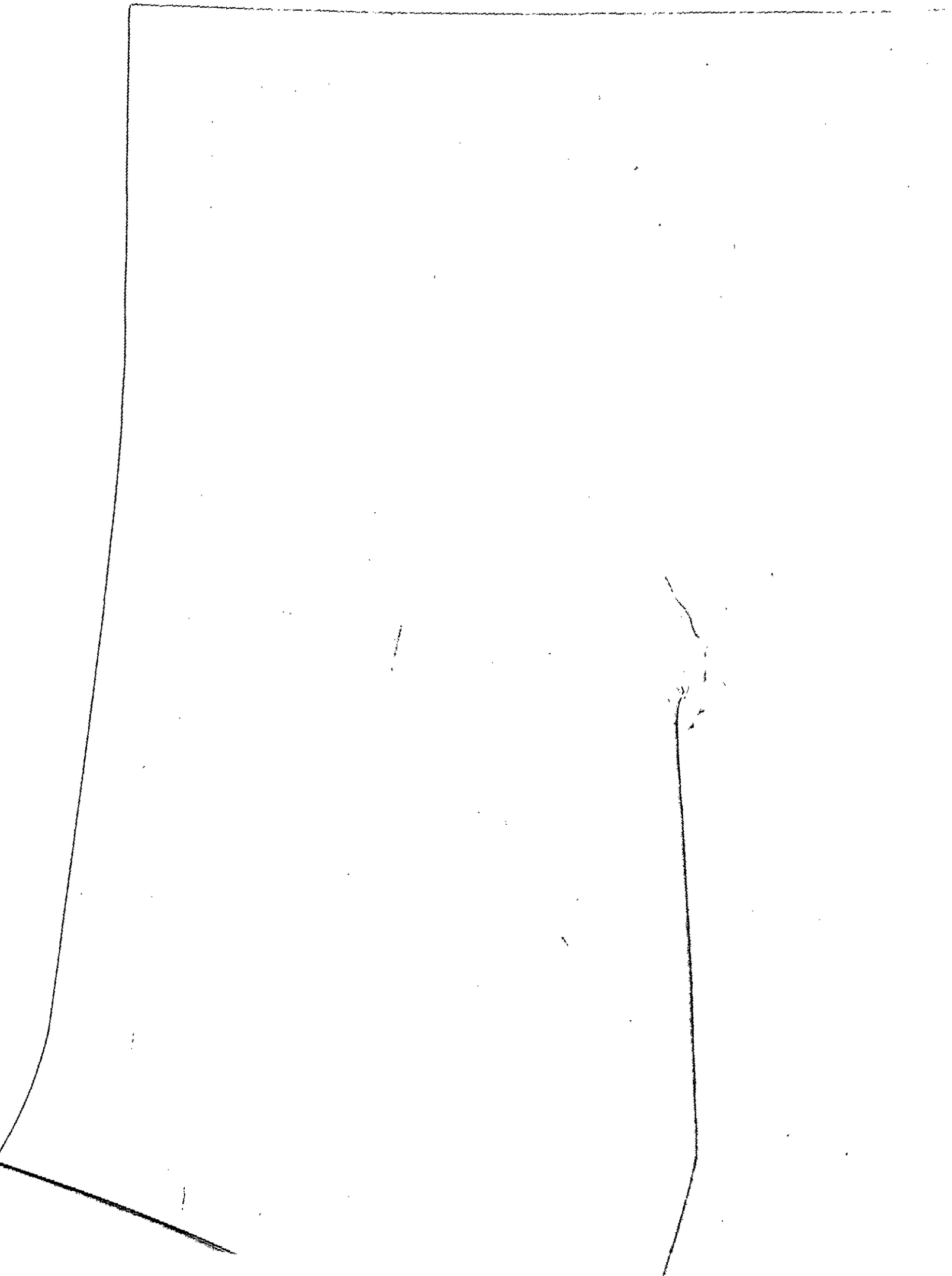
PROJECT:
WINFREE RESIDENCE

3/7/14	FLOORS AND ELEVATIONS
3/20/14	FLOORS AND ELEVATIONS (REV.)

DRAWING:
MAIN LEVEL FLOOR PLAN

SCALE: 1/4" = 1'-0"

PAGE: 7



FEE: 200.00
DATE: 6/3/2014

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 8623B

PERMIT NUMBER: 30005895

PARCEL NUMBER: 21719127

JOB LOCATION INFORMATION

ADDRESS: 17501 DUE WEST DR

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28278

ISSUED TO: Chris and Kim Winfree

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 1/3/2013

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30005895, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.
   *CONSTRUCTION AUTHORIZATION EXPIRATION DATE: 1/1/1900

YARBROUGH-WILLIAMS & HOULE, INC.
Planning • Surveying • Engineering
NCBELS C-0475
SC COA332

March 27, 2015

To: Jeremy Michaels, REHS, Supervisor
Mecklenburg County Health Dept.

Jacob Presley, LSS
Mecklenburg County Health Dept.

Chris Winfree
TEAM Mechanical, LLC
P.O. Box 471575
Fort Mill, SC 28715

From: Marc A. Houle, PE

Re: Final Certification of a pump to off-site 25% reduction septic system
For Chris Winfree, 17501 Due West Drive, Charlotte, NC
MCHD File# 8623B

This is to certify that the above referenced septic system was completed in accordance with the approved design.

If you should have any questions or need additional information, feel free to give me a call.

Sincerely,

Marc A. Houle, PE., LEED AP BD+C
Vice President

NORTH CAROLINA PROFESSIONAL SEAL 14906 ENGINEER MARC ANTHONY HOULE
3/27/14

730 Windsor Oak Ct. (28273) • P.O. Box 7007 (28241) • Charlotte, NC • 704.556.1990 • fax 704.556.0505

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	05/29/14	**Amount:**	200.00
Receipt #:	89617	**Tendered:**	200.00
Check / Auth #:	CHECK 4436	**Returned:**	0.00
Received By:	SADERLW.		

Account Information

Account #: 200000
Contractor: PR HUGHES LLC
Attn:
Address: PO BOX 471123
Address:
City/State/Zip: CHARLOTTE, NC 28247

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr 17501 DUE WEST DR		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
[illegible]	[illegible]	[illegible]	[illegible]		

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 8623B Permit #: 5895 Tax Parcel #: 217-191-27

Property Owner: Chris & Kim Winfree

Job Location Address: 17501 Pine West Dr.

City: Charlotte State: NC Zip Code: _____

Operation Permit Issuance Date: 3-20-15 Contractor Name: Autry Septic

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: 1500 gallons

Liquid Capacity of Septic Tank: 1500 gallons Manufacture Dellinger Effluent Pump Model: _____

Drainfield Installation ☐ N/A

Trench Depth: 33 inches

Trench Width: 3 feet

Line Spacing: 7 feet (O.C.)

Total line length: 533 feet

# of Lines: 3 @ 178 feet

Depth of Media: 12 inches (Type) IQ4 Chamber

Depth of Cover: 21 inches

Distribution Device: P. manifold

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ *inches*

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 10+ feet

Distance from Water Supply Source: _____ feet

Inspection Dates

Tank(s) Inspected: 3-9-15 JAM

Excavation Inspected: JRS

Pump & Controls Inspected: Ductile iron pipe inspected 3-9-15 JAM → 3-20-15 JBP

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

See approved plan from engineer. Installed per plan.

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☐ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IQ4 P 05 NA

DENR Authorized Agent: Josh Sellers Signature: Joshua R. Sellers RS.

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 8623B Permit #: 5895 Tax Parcel #: 217-191-27

Property Owner: Chris & Kim Winfree

Job Location Address: 17501 Due West Pr.

City: Charlotte State: NC Zip Code: _____

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIb

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☑

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☑ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

_____

_____

_____

_____

DENR Authorized Agent: Jeremy Michael / Josh Sellers / Jacob Pickle Date: 3-20-15

Signature: _____

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	05/29/14	**Amount:**	200.00
Receipt #:	89616	**Tendered:**	200.00
Check / Auth #:	CHECK 4436	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #:	200000
Contractor:	PR HUGHES LLC
Attn:	
Address:	PO BOX 471123
Address:	
City/State/Zip:	CHARLOTTE, NO 28247

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 17501 DUE WEST DR		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
[illegible]	[illegible]	685.00	909.35		

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/13/12	**Amount:**	250.00
Receipt #:	80449	**Tendered:**	250.00
Check / Auth #:	CHECK 217	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: JACOBS ON-SITE DEVELOPMENT IN
Attn: TONEY JACOBS
Address:
Address: 168 BROADBILL DR
City/State/Zip: MOORESVILLE, NC 28117

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 17501 DUE WEST DR		1	250.00	250.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
10.00	1,410.00				