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 #: 5419B Permit #: 6597 Tax Parcel #: 19937150

Property Owner: Josiah Boling

Job Location Address: 13015 Ninebark Trail

City: Charlotte State: NC Zip Code: 28278

Operation Permit Issuance Date: 9/23/14 Contractor Name: Stanley Septic

Permitted Design Flow: 720 GPD

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: 0.3 gallons

Effluent Pump Model: 1500

Drainfield Installation ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 600 feet

# of Lines: 6 @ 100 feet

Depth of Media: 12 inches (Type) Chambers

Depth of Cover: 12 inches

Distribution Device: pressure 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: 10 feet

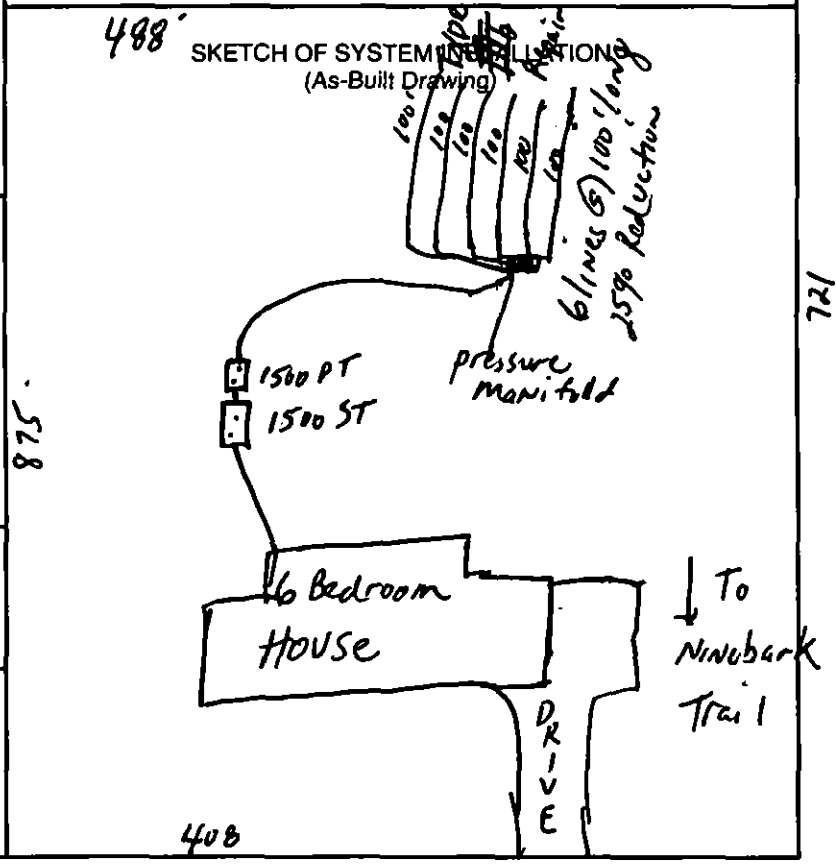
Inspection Dates

Tank(s) Inspected: 9/18/14

Excavation Inspected: 9/23/14

Pump & Controls Inspected: 9/23/14

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



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: 1HP Pump to Chambers B10A36, G, NA, NA

DENR Authorized Agent: Philo Walker Signature: Philo Walker REHS

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On-Site Wastewater Section

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

File #: 5419B Permit #: 6597 Tax Parcel #: 199 371 50

Property Owner: Josiah Boling

Job Location Address: 13015 Ninebark Trail

City: Charlotte State: NC Zip Code: 28278

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: Pump to Chambers

DENR Authorized Agent: Philo Walker Date: 9/23/14

Signature: Philo Walker REHS

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NC DENR
Division of Environmental Health
On-Site Wastewater Section

INSTALLATION APPROVAL for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 5419B Permit #: _____ Tax Parcel #: 199 37150

Property Owner: Josiah Boling

Job Location Address: 13015 Ninebark Trail

City: Charlotte State: NC Zip Code: 28278

Installation Approval Issuance Date: 9/19/14

Permission is hereby given to ☑ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge, as specified herein at the described location. This approval is granted based upon the application information submitted to our office. All work shall be completed on or before 10/19/14, after which date this approval shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of granting this approval. An **Operation Permit** must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now of hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.

***NOTICE: This system shall not be installed while soils are in a wet condition.**

Permitted Design Flow: 720 GPD

Site LTAR: 0.3 GPD/ft² (For new installations only.)

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: 1500 gallons

Drainfield Design ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 600 feet

# of Lines: 6 @ 100 feet

Depth of Media: 12 inches (Type) 25% Reduction System

Distribution Device: pressure manifold

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

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

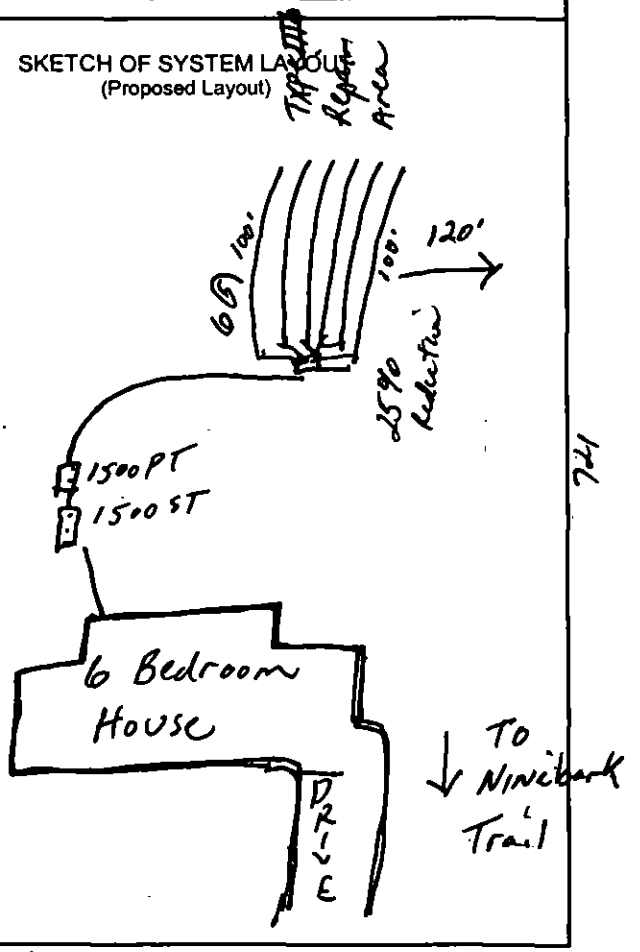
Minimum System Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout)



741

Comments: System Classification & Type: III b 1500 ST, 1500 Gal PT, pressure manifold, 6 lines @ 100' long @ 3' wd 25% Reduction System municipal water

DENR Authorized Agent: Philo Walker Signature: Philo Walker REHS

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

Sheet: 1 of 2
Property ID: 199-371-50
Lot #: 7
File #: 5419B
AppID: 6597

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Josiah Bolling
Address: 7007 Woodstream Dr, Charlotte, NC 28210
Proposed Facility: 5BR House
Design Flow (.1949): 600 GPD
Location of Site: 7007 Woodstream Dr, Charlotte, NC 28210
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: John Santangelo w/ Diesel Construction
Date Evaluated: 1/3/2014
Property Size: 8.75 ac
Property Recorded: Unknown

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	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS 5%	0 - 4	gr CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		4 - 50	mfsbk C	FI SEXP							
Boring #2	LS 8%	0 - 3	gr CL	FR SEXP	>51"	51	NA	NA		PS IV 0.3	36"
		3 - 51	mfsbk C	FI SEXP							
Boring #3	LS 5%	0 - 5	gr CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		5 - 50	mfsbk C	FI SEXP							
Boring #4	R 5%	0 - 5	gr CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		5 - 50	mfsbk C	FI SEXP							
Boring #5	LS 22%	0 - 4	gr CL	FR SEXP	>56"	56	NA	NA		PS IV 0.3	36"
		4 - 56	mfsbk C	FI SEXP							
Boring #6	LS 8%	0 - 10	wfsbk CL	FR SEXP	>51"	51	NA	NA		PS IV 0.3	36"
		10 - 28	wfsbk C	FR SEXP							
		28 - 51	mfsbk C	FI SEXP							
Boring #7	LS 16%	0 - 7	wfsbk CL	FR SEXP	>54"	54	NA	NA		PS IV 0.3	36"
		7 - 23	wfsbk C	FR SEXP							
		23 - 54	mfsbk C	FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	0.3	0.3

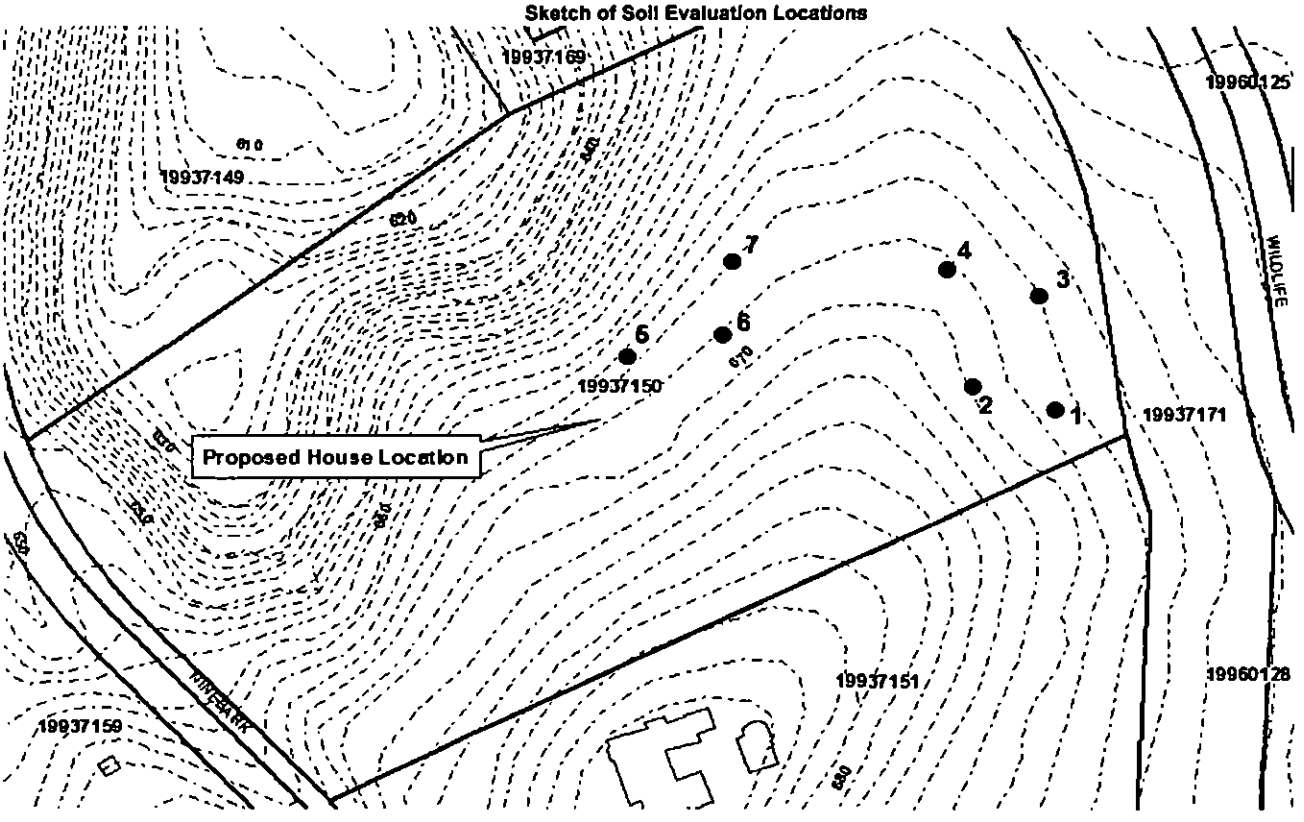
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:

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		mass-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				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
				m-moderate
		SiL-Silt Loam		s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



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NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30006597** GWS File #: **5419B** Tax Parcel #: **199-371-50**

- 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: Expire in Five (5) Years **Expiration Date (If Applicable):** 1/29/2019

Type of Installation: Residential - New System Lot Number: 7

Structure Type: HOUSE Size (ft^2): 6500 # Bedrooms: 6 # Occupants: 4

Building Foundation: Basement With Plumbing *Water Supply: Municipal*

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

Initial System Specifications:

Design Flow (gpd):	720	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600
Maximum Trench Depth (in):	30	*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):	720	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600
Maximum Trench Depth (in):	30	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: Philo Walker Owner/Legal Agent: John Santangelo
Print Name

Signature: Philo Walker REHS Signature:

Date Issued: 1/29/2014

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NC DENR
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On-Site Wastewater Section

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

Permit #: **30006597** GWS File #: **5419B**

IV. Permit Conditions/Comments:

- 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.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- 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 septic system shall be located at least 10 feet from any foundation drain.

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: Philo Walker

Signature: Philo Walker 1/29/15

Date Issued: 1/29/2014

Owner/Legal Agent: John Santangelo
Print Name

Signature:

Page 2 of 2

FEE: 200.00
DATE: 4/3/2014

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 5419B

PERMIT NUMBER: 30006597

PARCEL NUMBER: 19937150

JOB LOCATION INFORMATION

ADDRESS: 13015 NINEBARK TRL

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

ISSUED TO: Josiah Boling

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 1/29/2014

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30006597, 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: 1/29/2019

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

Permit #: **30006597** GWS File #: **5419B** Tax Parcel #: **199-371-50**

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- 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: Expire in Five (5) Years **Expiration Date (If Applicable):** 1/29/2019

Type of Installation: Residential - New System Lot Number: 7

Structure Type: HOUSE Size (ft^2): 6500 # Bedrooms: 6 # Occupants: 4

Building Foundation: Basement With Plumbing Water Supply: Municipal

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Initial System Specifications:

Design Flow (gpd):	720	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600
Maximum Trench Depth (in):	30	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):	720	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1800	Total Trench Length (ft):	600
Maximum Trench Depth (in):	30	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: Philo Walker Owner/Legal Agent: _____
Print Name

Signature: Philo Walker REHS Signature: _____

Date Issued: 1/29/2014

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

Permit #: **30006597** GWS File #: **5419B**

IV. Permit Conditions/Comments:

- 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.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
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DENR Authorized Agent: Philo Walker

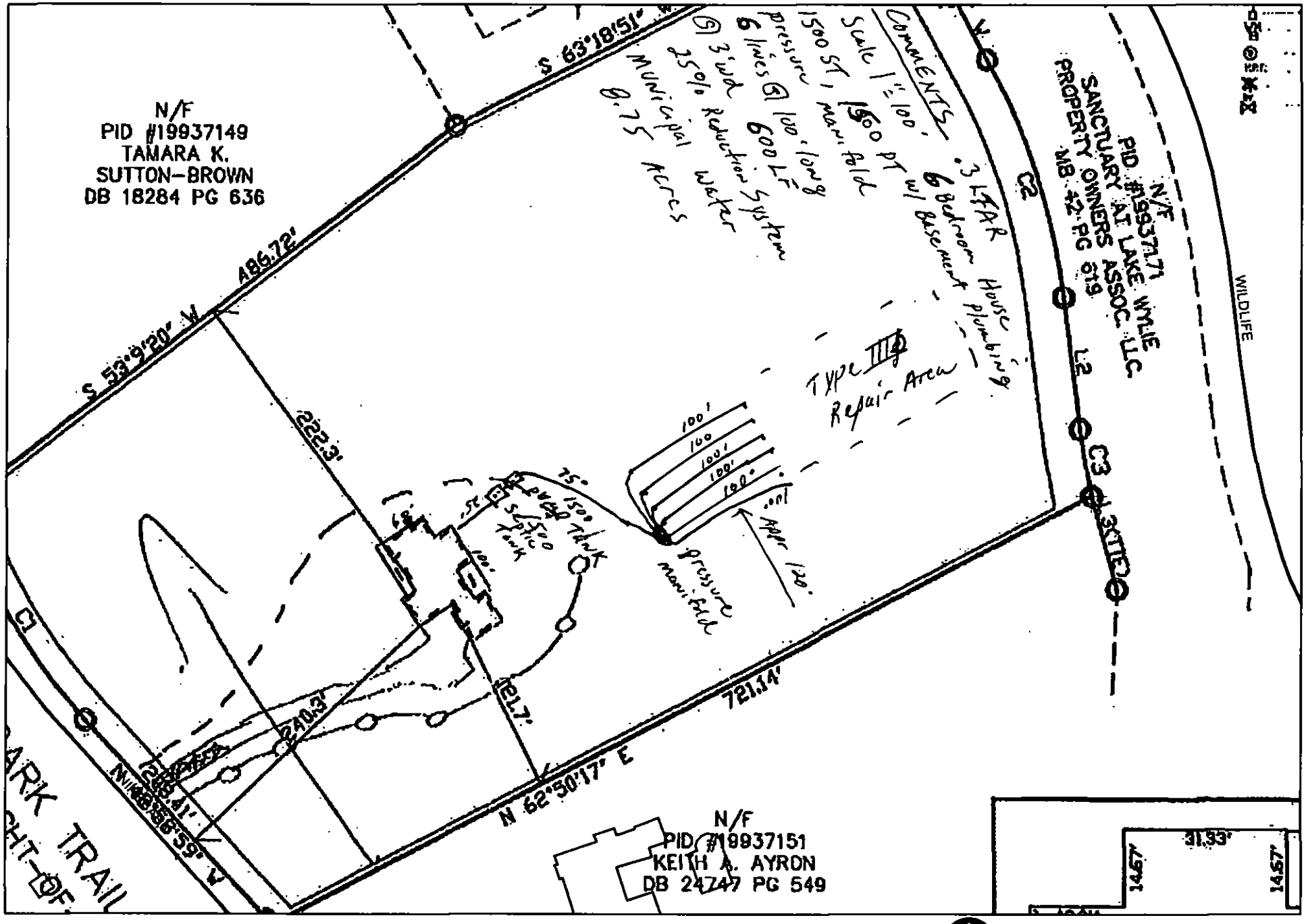
Signature: Philo Walker PEHS

Date Issued: 1/29/2014

Owner/Legal Agent: _____
Print Name

Signature: _____

Parcel ID: 199-371-50
File #: 5419B
AppID: 6597



Map Created By:
Map Created On:

0 50 100 Feet

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

Sheet: 1 of 2
Property ID: 199-371-50
Lot #: 7
File #: 5419B
AppID: 6597

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Josiah Boiling
Address: 7007 Woodstream Dr, Charlotte, NC 28210
Proposed Facility: 5BR House
Design Flow (.1949): 600 GPD
Location of Site: 7007 Woodstream Dr, Charlotte, NC 28210
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] *Sewage* [ ] *Industrial Process* [ ] *Mixed*

Applicant: John Santangelo w/ Diesel Construction
Date Evaluated: 1/3/2014
Property Size: 8.75 ac
Property Recorded: Unknown

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	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS 5%	0 - 4	gr CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		4 - 50	mfsbk C	FI SEXP							
Boring #2	LS 8%	0 - 3	gr CL	FR SEXP	>51"	51	NA	NA		PS IV 0.3	36"
		3 - 51	mfsbk C	FI SEXP							
Boring #3	LS 5%	0 - 5	gr CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		5 - 50	mfsbk C	FI SEXP							
Boring #4	R 5%	0 - 5	gr CL	FR SEXP	>50"	50	NA	NA		PS IV 0.3	36"
		5 - 50	mfsbk C	FI SEXP							
Boring #5	LS 22%	0 - 4	gr CL	FR SEXP	>56"	56	NA	NA		PS IV 0.3	36"
		4 - 56	mfsbk C	FI SEXP							
Boring #6	LS 8%	0 - 10	wfsbk CL	FR SEXP	>51"	51	NA	NA		PS IV 0.3	36"
		10 - 28	wfsbk C	FR SEXP							
		28 - 51	mfsbk C	FI SEXP							
Boring #7	LS 16%	0 - 7	wfsbk CL	FR SEXP	>54"	54	NA	NA		PS IV 0.3	36"
		7 - 23	wfsbk C	FR SEXP							
		23 - 54	mfsbk C	FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIB	IIIB
Site LTAR (gpd/sq ft)	0.3	0.3

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: PHILO WALKER, REHS
Others Present: JOHN SANTANRELO

COMMENTS:

File #: 5419B
ApplD: *6597*

Landscape Position

R-Ridge
SS-Shoulder Slope
LS-Linear Slope
FS-Foot Slope
NS-Nose Slope
HS-Head Slope
CC-Concave Slope
CV-Convex Slope
T-Terrace
FP-Flood Plain
D-Drainage Way

Group	Texture	.1955 LTAR
I	S-Sand	1.2 - 0.8
	LS-Loamy Sand	
II	SL-Sandy Loam	0.8 - 0.6
	L-Loam	
III	Si-Silt	0.6 - 0.3
	SiCL-Silty Clay Loam	
	CL-Clay Loam	
	SCL-Sandy Clay Loam	
	SiL-Silt Loam	
IV	SC-Sandy Clay	0.4 - 0.1
	SiC-Silty Clay	
	C-Clay	

Structure

sg-Single Grain
mass-Massive
cr-Crumb
gr-Granular
sbk-Subangular Blocky
abk-Angular Blocky
pl-Platy
pr-Prismatic
Sap-Saprolite

Structure Prefixes

w-weak
m-moderate
s-strong
f-fine
m-medium
c-coarse

Consistence
Moist

VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet

SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

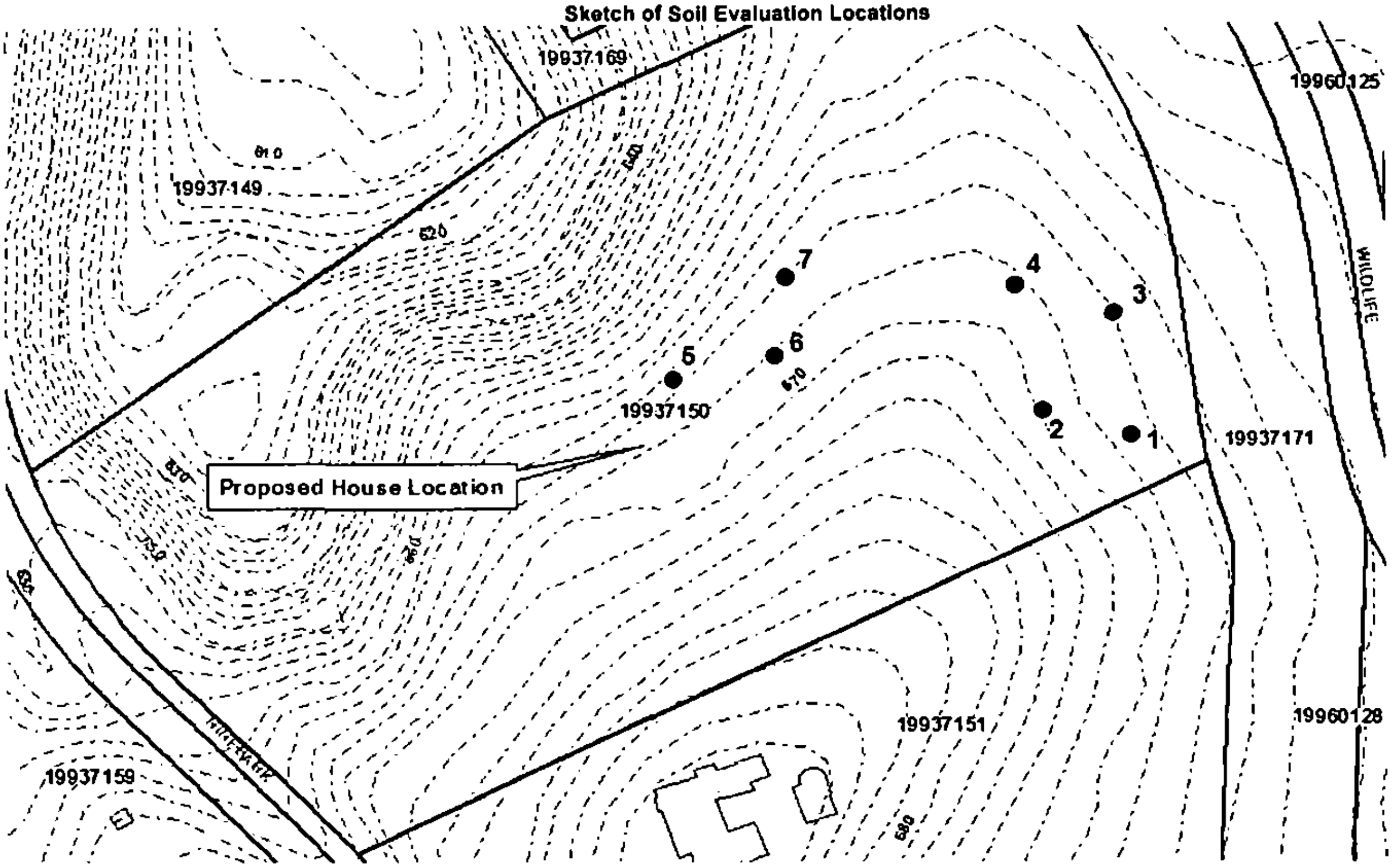
Mineralogy

SEXP-Slightly Expansive
EXP-Expansive

Classification

US-Unsuitable
PS-Provisionally Suitable
S-Suitable
NA-Not Applicable

Sketch of Soil Evaluation Locations



Real Estate Lookup

Print Close

Parcel Information

Parcel ID	Account	Parent	Previous
19937150	INDIVIDUAL		

Owner(s)

Owner Name	Mailing Address	City/State
BOLING MATTHEW JOSIAH HUSBAND	7117 WOODSTREAM DR	CHARLOTTE NC 28210
BOLING SHAUNA NICOLE WIFE	7117 WOODSTREAM DR	CHARLOTTE NC 28210

Legal Information

Legal	Municipality	Date Annexed	Special District	Fire District	Acreage
L7 M42-619	MECKLENBURG COUNTY-UNINCORPORATED		FIRE SERVICE A	STEELE CREEK #2	8.72

Total Parcel Assessment

Building	Land	Features	Total
0	517700	0	517700

Exemptions

Exemption	Year Approved	Review Date	Amount

Sales Information

Sale	Price	Stamps	Qualify	VI	Type	Legal Ref.	Grantor
Aug 14 2012	74000	148	GOV'T/ BANK	IMP	SPEC WARRNTY	27573-739	WELLS FARGO BANK NA,
Aug 4 2011	215000	430	FORCED	VAC	SPEC WARRNTY	26651-773	GOGO PROPERTIES LLC,
Aug 18 2004	430000	860	UNDER REVIEW	IMP	SPEC WARRNTY	19207-735	SANCTUARY AT LAKE WY
Nov 26 2003			UNDER REVIEW	IMP	MULT LISTING	16493-360	SANCTUARY AT LAKE WY

Land Use

Use	Units	Type	Neighborhood	Assessment
R120	8.72	AC	T916	517700

Building Information

Bldg	Description	Type	Year	Property Location
				13015 NINEBARK TL UNINC

Bldg	Story	Units	Total SqFt	Heated SqFt	Foundation	Ext. Wall	Grade	Value

Bldg	Heat	Fuel	Fire Place	AC	Fixtures	Bedrooms	Full Baths	3/4 Baths	1/2 Baths

Sub Area

Bldg	Description	Size

Depreciation

Bldg	Physical	Functional	Economic	Special	Override

Special Features & Yard Items

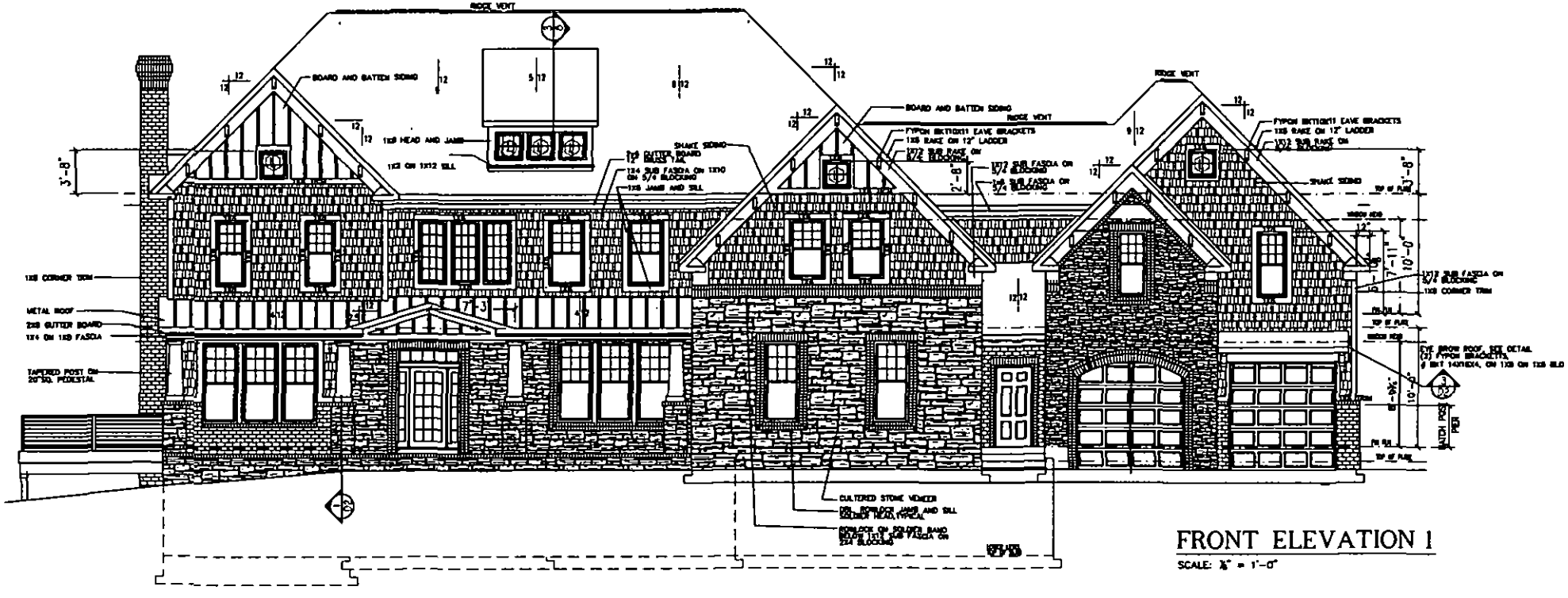
Bldg	Built	Type	Quantity	Units	Value

Notes

Tax Year	Notes	Note Date

Value Changes

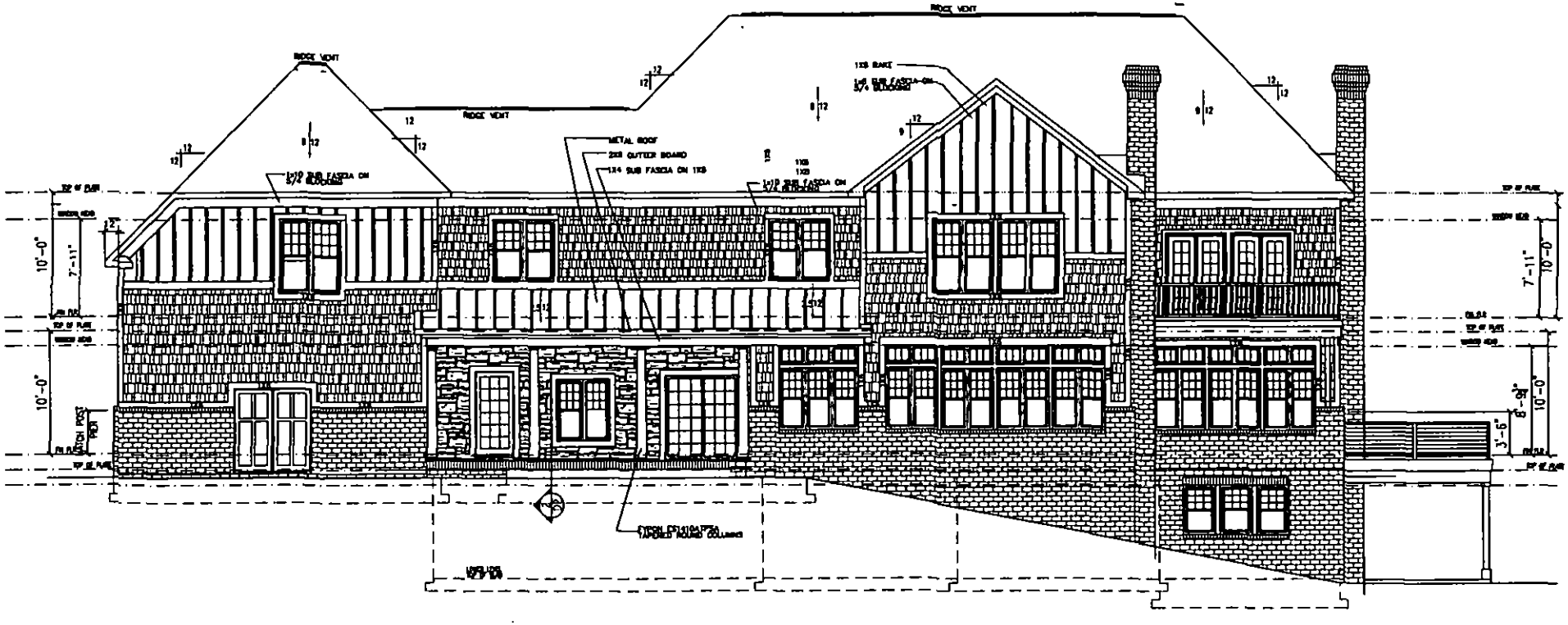
Notice Date	Tax Year	Reason	Changed To	Deferred
Feb 8 2011	2011	Countywide Revaluation	517700	0
Jul 7 2005	2005	Division of Land and/or New Parcel	423500	0
Jul 7 2005	2005	Division of Real Estate and/or New Parce	423500	0



FRONT ELEVATION 1

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

SHT. 5	DATE 11/28/13	BRITT RESIDENCE	JCBHome Designs
DRAWN BEAN	FRONT ELEVATION #1		CHARLOTTE NC 704-713-4005

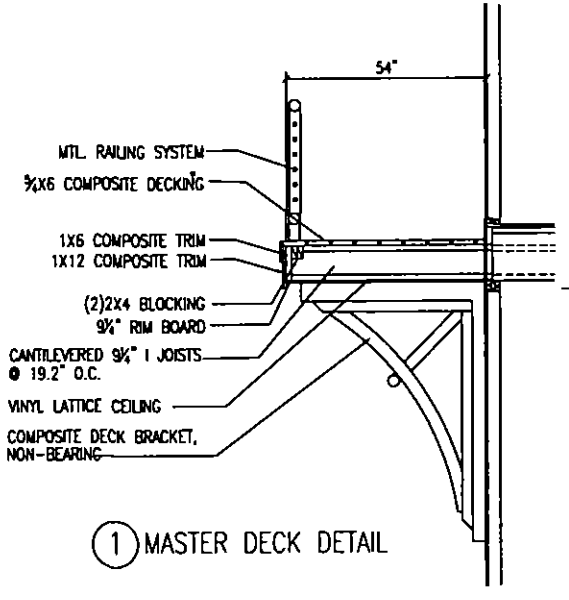


LEFT SIDE ELEVATION

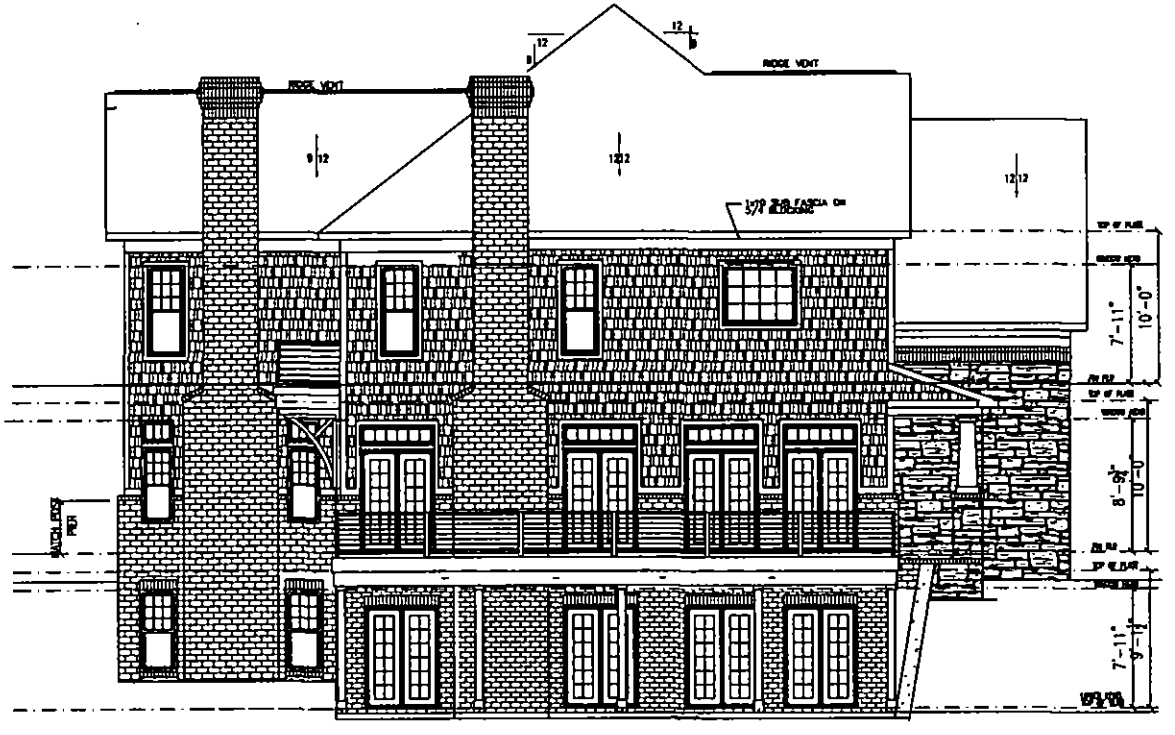
SCALE: 1/4" = 1'-0"

ALTERNATE W/ DECK OPTION

SHT.	DT.		
7	11/28/13	BRITT RESIDENCE	JCBHome Designs
	DRAFT BEAN	REAR ELEVATION	CHARLOTTE NC 704-713-4025



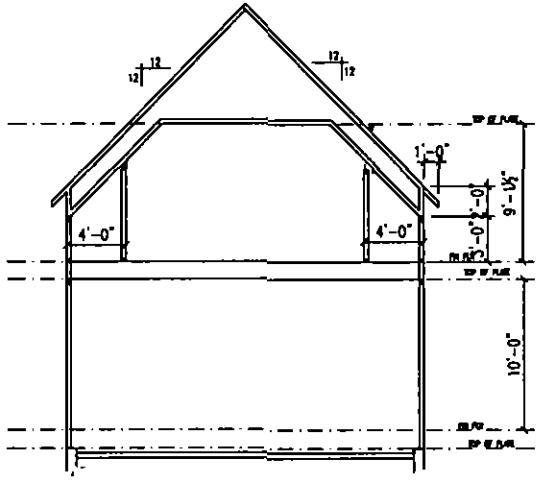
1 MASTER DECK DETAIL



LEFT SIDE ELEVATION

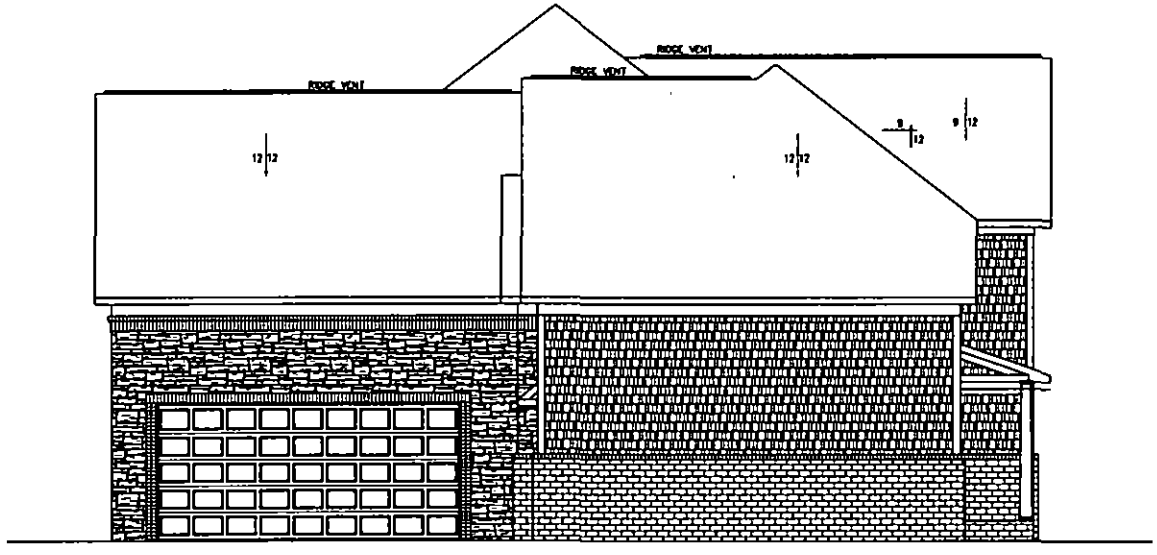
SCALE: ⅛" = 1'-0"

SHEET	DATE	BRITT RESIDENCE	JCBHome Designs
6	11/28/13	LEFT SIDE ELEVATION	CHARLOTTE NC 704-910-4226
	DRAWN BY: BEAN		



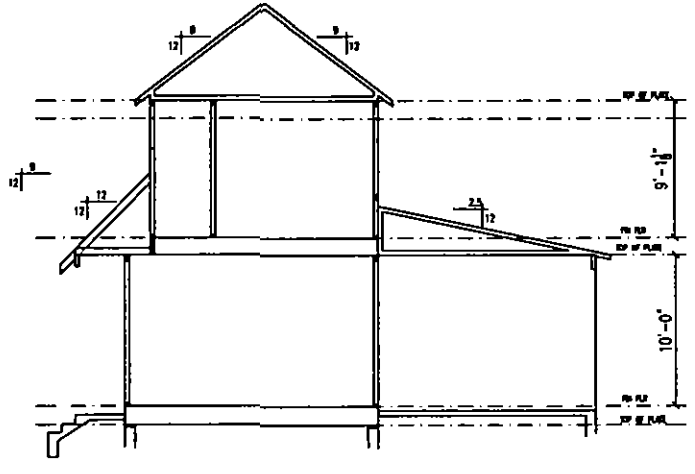
BUILDING SECTION #1

SCALE: ⅛" = 1'-0"



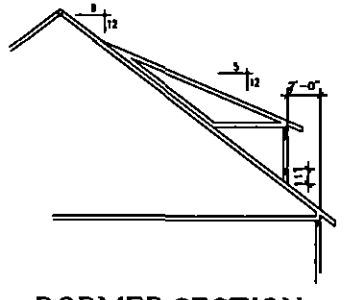
RIGHT SIDE ELEVATION

SCALE: ⅛" = 1'-0"



BUILDING SECTION #2

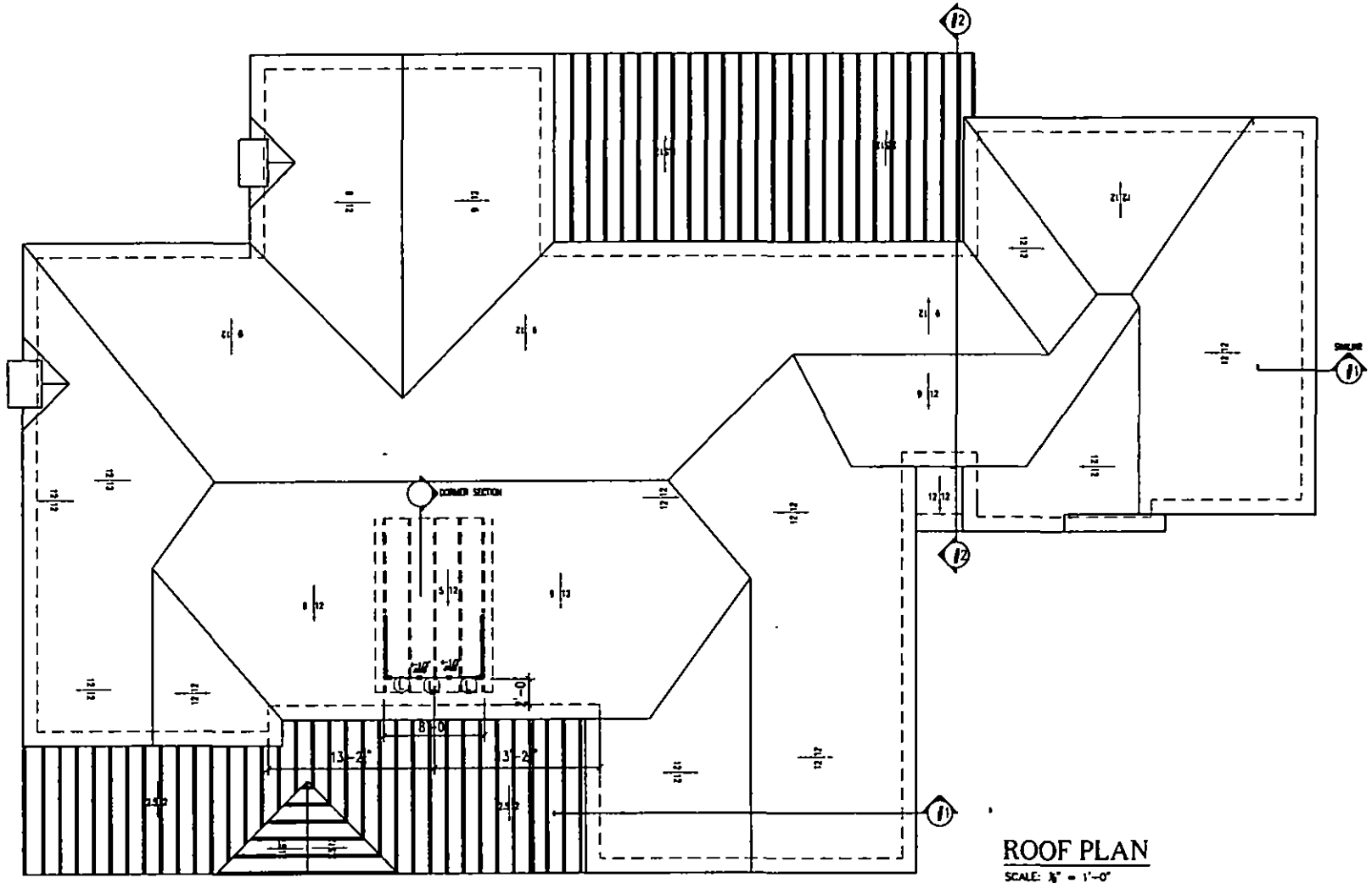
SCALE: ⅛" = 1'-0"



DORMER SECTION

SCALE: ⅛" = 1'-0"

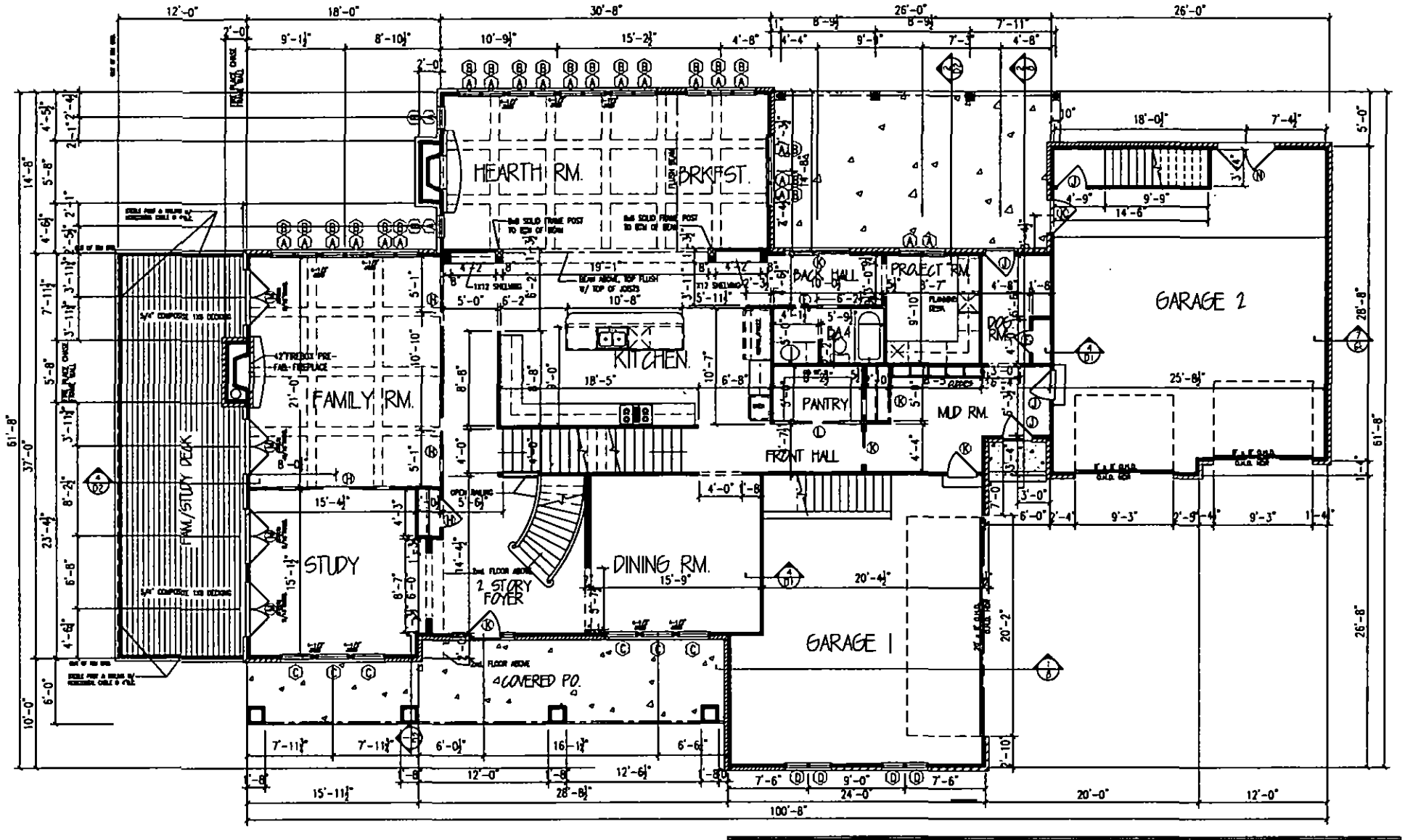
JOB NO. 8	DATE 11/28/13	BRITT RESIDENCE	JCBHome Designs
	DRAWN BEAN	RIGHT SIDE ELEVATION, BLDG. SECTIONS	CHARLOTTE NC. 704-975-4025



ROOF PLAN

SCALE: 3/8" = 1'-0"

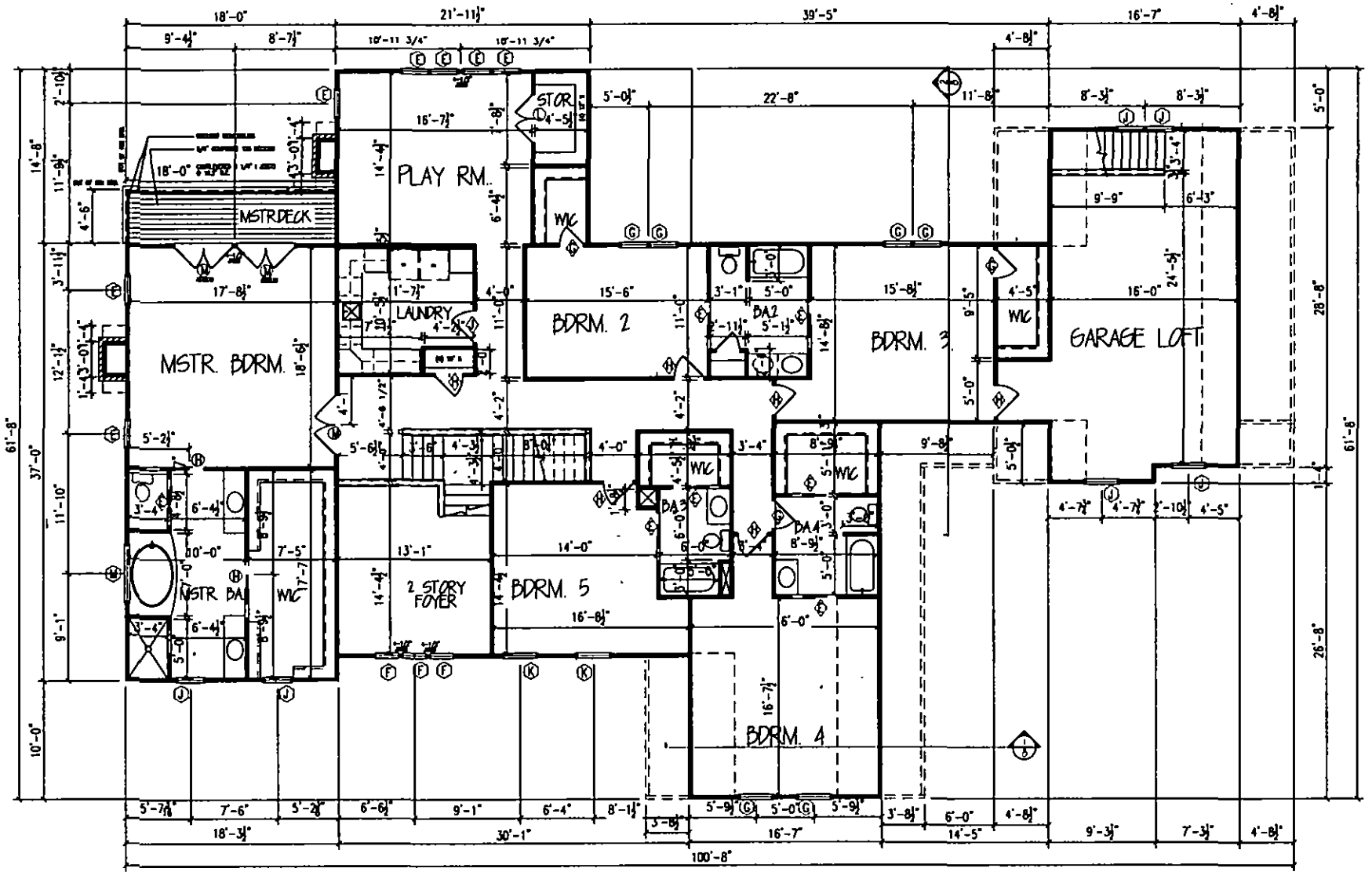
9	11/28/13	BRITT RESIDENCE	JCBHome Designs
	BEAN	ROOF PLAN	CHARLOTTE NC 704-910-4005



MAIN LEVEL FLOOR PLAN

SCALE: ¼" = 1'-0"

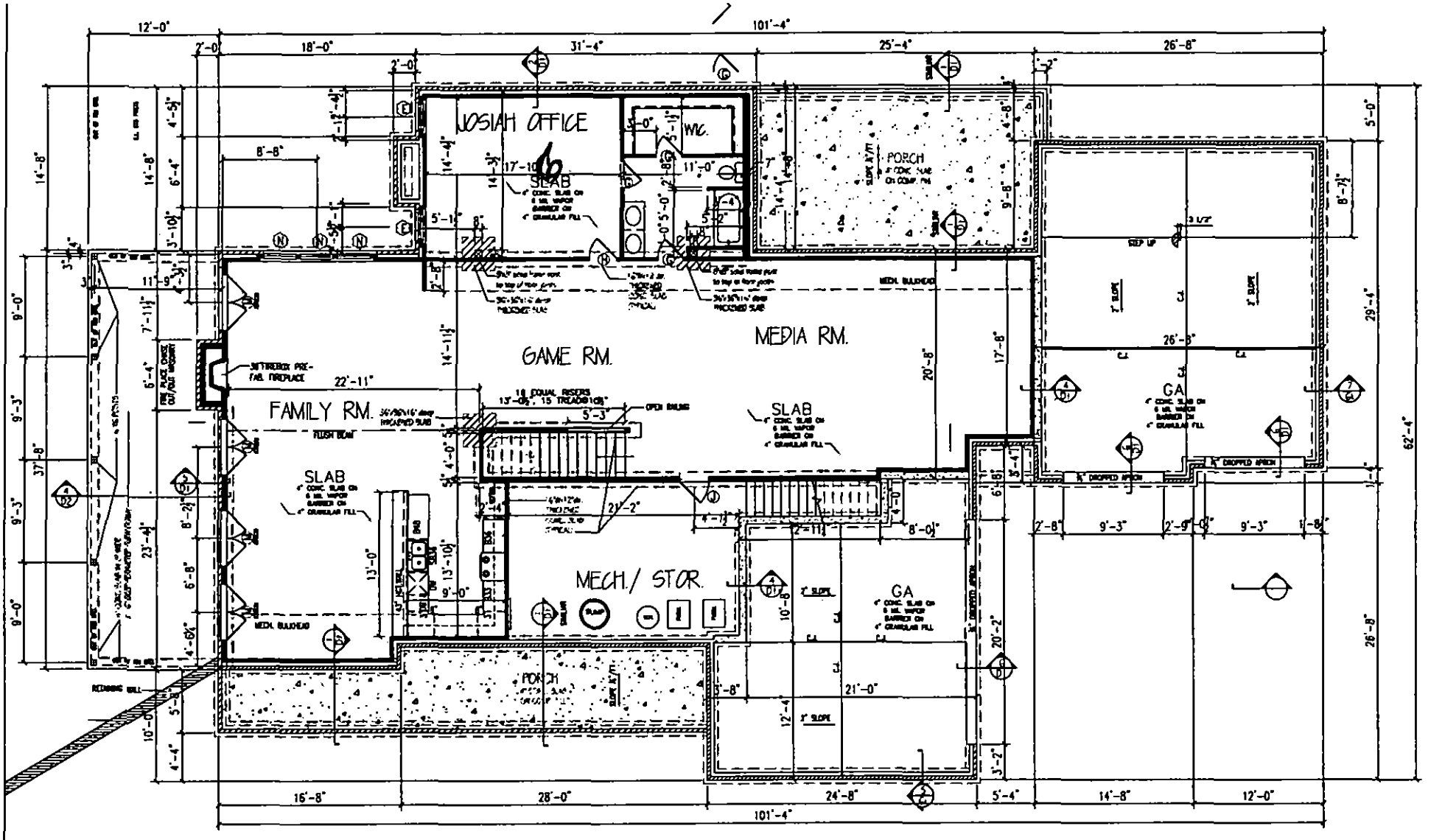
SHT.	DATE	BRITT RESIDENCE	JCBHome Designs
2	11-28-13		
DRAWN BY	BEAN	MAIN LEVEL FLOOR PLAN	CHARLOTTE NC 704-910-4005



UPPER LEVEL FLOOR PLAN

SCALE: ⅛" = 1'-0"

SHT. 3	DATE 11/28/13	BRITT RESIDENCE	JCBHome Designs
	DRAWN BEAN	UPPER LEVEL FLOOR PLAN	CHARLOTTE NC 704-718-6005



LOWER LEVEL FOUNDATION/FLOOR PLAN

SCALE: ⅛" = 1'-0"

1	11/28/13	BRITT RESIDENCE	JCBHome Designs
	BEAN	FOUNDATION / LOWER LEVEL FLOOR PLAN	CHARLOTTE NC 704-975-6005

NOTE:

SEE MANUFACTURERS DRAWING FOR FLOOR JOIST LAYOUT

TRUSS NOTES

1. TRUSS SPACING TO BE 24"O.C. UNLESS OTHERWISE NOTED
2. SEE ELEVATIONS FOR PITCH REQUIREMENTS
3. SEE WALL SECTIONS FOR RAKE & EAVE OVERHANG
4. SEE ELEVATIONS FOR WALL & WINDOW HGT. SPECS.
5. ALL CORNER SETS TO BE FRAMED BY OTHERS
6. ALL 2X2 MATL. TO BE SUPPLIED BY OTHERS
7. SPECIES OF WOOD TO BE EITHER STP OR SPF
8. LOADING AS FOLLOWS:
   TC LIVE LOAD = 20 PSF
   TC DEAD LOAD = 10 PSF
   BC LIVE LOAD = 0.00
   BC DAED LOAD = 10 PSF
9. DESIGN CRITERIA TPI
10. DESIGN DESCRIPTION NCRC 2012

ENGINEERING NOTES:

(1) All Exterior And Interior Load Bearing Headers Shall Be (2)2x6's #2 S.Y.P. Or Better U.N.O.

(2) All Headers Shall Be Supported With A Minimum of (1) Jack & (1) King Stud U.N.O.

(3) All Non-Load Bearing Headers Per Code

(4) Header Notation:
   S.Y.P. = Southern Yellow Pine
   S.P.F. = Spruce Pine Fir

(5) Roof Truss structural design for exterior wall bearing only. Consult with engineer of record should interior support be necessary.

GENERAL NOTES:

1. SEE ELEVATIONS FOR CEILING HEIGTS.
2. ALL INTERIOR NON LOAD BRG WALLS TO BE 2x4 STUDS 24" O.C.
3. WINDOWS TO BE VINYL SINGLE-HUNG, SIZE AS INDICATED BY NUMBER ON PLAN (SEE WINDOW SCHEDULE)
4. DIMENSIONS ARE FROM FACE OF STUDS.
5. PROVIDE BLOCKING ABOVE WINDOWS & DOORS 16"O.C. TYP.
6. PROVIDE EXTRA STUDS AS INDICATED AT BEAM BEARING LOCATIONS.
7. ALL WINDOW HT. TO BE MIN. 84" ABOVE FLOOR UNLESS OTHERWISE NOTED
8. PROVIDE DOUBLE CRIPPLES UNDER HEADERS FOR BEARING AT OPENINGS 6'-0" WIDE AND GREATER
10. 16" O.C. STUDS AT KITCHEN WALLS W/ CABINETS.
11. GARAGE TO HOUSE DOOR TO 20 MIN. RATED PER R302.5.1
12. MIN 5/8" TYPE X DRYWALL ON HOUSE TO GARAGE WALL & ON GARAGE CEILING. 1/2" DRYWALL ON EXT. GARAGE WALLS.
13. WHERE OPERABLE WINDOWS ARE MORE THAN 72" ABOVE GRADE, THE LOWEST PART OF THE CLEAR OPENING SHALL BE A MIN. OF 24" OFF FIN OPERABLE SECTIONS OF THE WINDOW SHAL NOT ALLOW A SPHERE OF 4" TO PASS THROUGH WHERE THE SILL IS LESS THAN 24" TO FIN. FLR PER SECT. R312.2

GENERAL FRAMING SPECIFICATIONS

THESE PLANS HAVE BEEN DESIGNED TO MEET THE INTENT OF SECTION R602.10.4 OF THE 2012 NCRC, AND IN ACCORDANCE W/ ACCEPTED ENGINEERING PRACTICE AS ALLOWED BY SECTION 301.1.3, WHICH ALLOWS FOR DEVIATIONS FROM PRESCRIPTIVE REQUIREMENTS OF THE CODE WHEN AN ENGINEER DESIGNS THE SYSTEMS. THE LOADS WERE CALCULATED PER ASCE 7 AND THE INTERNATIONAL BUILDING CODE. NO DEVIATIONS WERE MADE TO SECTIONAL BRACED WALL LINES WHILE THE EXTERIOR BRACED WALL LINES WERE STRENGTHENED TO ACCESS THE DESIGNED LOADS. THE G.S.B. PANEL SPACES ARE DETAILED TO PROVIDE RESISTANCE THAT IS GREATER THAN THE MOMENTS DETAILED IN THE CODE FOR BRACED WALL PANELS AND IS ADEQUATE TO RESIST THE LOADS CALCULATED FROM ASCE 7.

1. ALL EXTERIOR FACES ARE TO BE CONTINUOUSLY SHEATHED W/ 7/16" O.S.B. NAILED W/ 8d NAILS TO COMMON WALLS @ 6" O.C. PERIMETER, AND 12" O.C. IN THE FIELD.
2. ALL GABLES ARE TO BE CONTINUOUSLY SHEATHED W/ 7/16" O.S.B. NAILED W/ 8d NAILS TO COMMON WALLS @ 12" O.C.
3. ALL GARAGE FRONTS ARE TO BE CONTINUOUSLY SHEATED W/ 7/16" O.S.B. AND FRAMED IN ACCORDANCE W/ DETAIL 10.2
4. ALL EXTERIOR FIREPLACES STACKS ARE TO BE CONTINUOUSLY SHEATHED W/ 7/16" O.S.B. NAILED W/ 8d TO COMMON WALLS @ 6" O.C. PERIMETER, 12" O.C. IN THE FIELD.
5. WEATHER RESISTIVE BARRIER BEHIND SIDING PER SECT. R703.2
6. WHERE THE PROPERTY LINE IS LESS THAN 10' FROM BLDG. FACE & SOFFIT MAT'L IS VINYL OR ALUMINUM, THE SOFFIT MAT'L SHALL BE SECURED TO FRAMING MEMBERS W/ UNDERLAYMENT MAT'L OR CEMENT FIRE RETARDANT GRADED WOOD, 5/8" WOOD SHEATHING, OR 1/2" CDX BRD. VENTING REQ'MTS SHALL APPLY TO BOTH SOFFIT & UNDERLAYMENTS PR SECT. R324.
7. PROVIDE REQUIRED SHINGLE UNDERLAYMENT OVER ROOF SHEATHING PER SECT. R25
8. 4'x8' SHEETS 1/2" CDX TO BE NAILED W/10d NAILS @ 6" O.C. @ PERIMETER, 12"O.C. IN THE FIELD.

WINDOW SCHEDULE

WALLS WINDOW SIZES SHOWN SHOWN TIMES ARE REQUIRED PER ALTERNATE MANUFACTURER

- (A)
- (B)
- (C)
- (D)
- (E)
- (F)
- (G)
- (J)
- (K)
- (L)
- (M)
- (N)

FIRST FLOOR HEATED AREA=	2686 S.F.
SECOND FLOOR HEATED AREA=	3249 S.F.
TOTAL=	5935 S.F.
GARAGE=	1353 S.F.
BASEMENT =	2591 S.F.
PATIO =	365 S.F.
FRONT PORCH=	307 S.F.

DOOR SCHEDULE

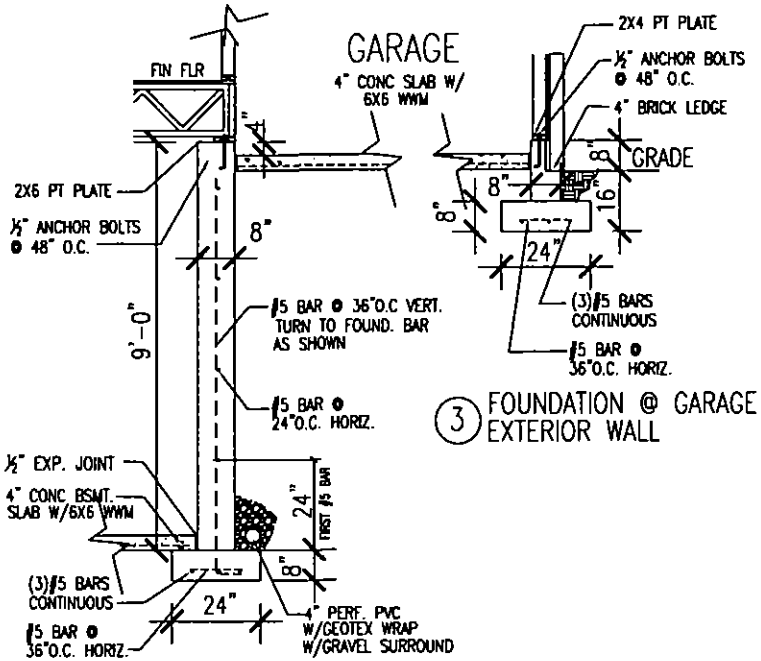
SEE ROUGH OPENING GUIDE FOR DOOR FRAMING SIZE

MARK	SIZE(WIDTH)
A	1'-0"
B	1'-4"
C	1'-6"
D	1'-8"
E	2'-0"
G	2'-4"
H	2'-6"
J	2'-8"
K	3'-0"
L	4'-0"
M	5'-0"
N	5'-4"
P	6'-0"

TYPE	SIZE(HEIGHT)
STD.	6'-11"
BF	6'-10"
BP	6'-11"

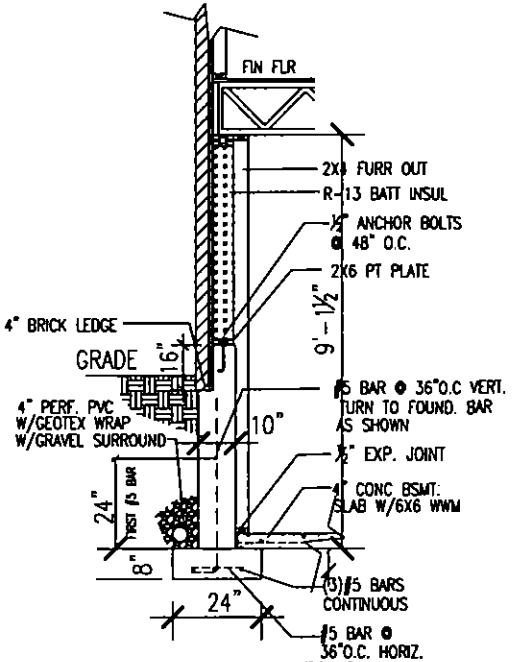
(X) LOAD BEARING DOOR
(X) NON-LOAD BEARING DOOR (NO JACKS UNDER HDR.)

SHEET: 4	11/28/13	BRITT RESIDENCE	JCBHome Designs
	INITIALS: BEAN	WINDOW / DOOR SCHEDULE, AREA COMPUTATIONS	CHARLOTTE NC 704-910-6003

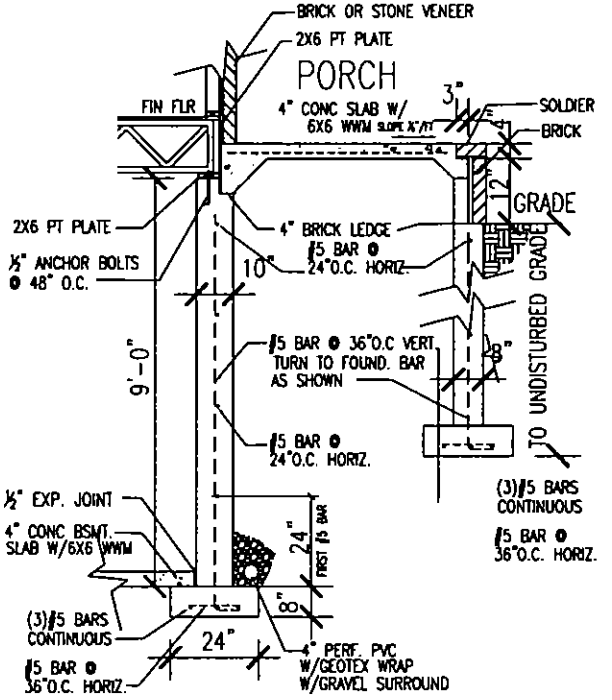


4 FOUNDATION @ GARAGE INTERIOR WALL

3 FOUNDATION @ GARAGE EXTERIOR WALL



2 FOUNDATION @ STEP DOWN FOUNDATION WALL



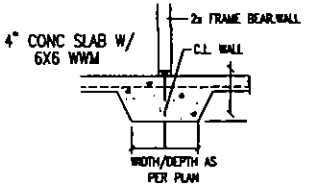
1 FOUNDATION @ PORCH DETAIL

MASONRY SPECIFICATIONS

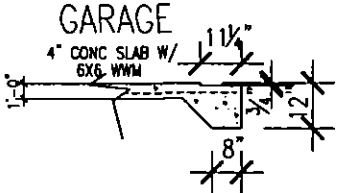
1. CORROSION RESISTANT 22 GA. TIES 7/16"x6" LONG, SPACED @ 24" MAX. HORIZONTAL, NOT TO EXCEED 2.67 SQ.FT. WALL AREA
2. WEEP HOLES TO BE PLACED @ EVERY OTHER HEAD JOINT ON THE BOTTOM COURSE OF BRICK RUNS.
3. POLY DRAPE TO EXTEND MIN. 2" BELOW WRAP
4. TYPE "S" MORTAR FOR ALL LOAD BEARING BRICK CONDITIONS.

GENERAL SPECIFICATIONS

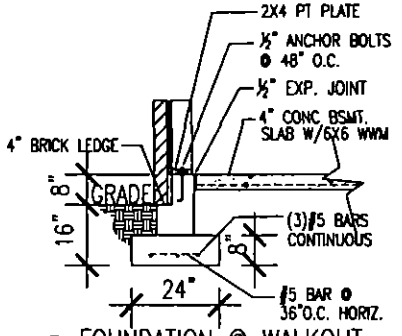
1. FOOTING WIDTHS ARE BASED ON 2000 PSF SOIL BEARING CAPACITY AND TABLE R401.4.1, 2012 NCRC
2. MAS/MAB ANCHORS SPACED MAX. 7' O.C., LOCATED WITHIN 12" OF ALL CORNERS, @ INBEDDED MIN. 7" PER R403.1.6
3. MAS/MAB ANCHORS INSTALLED PER MANUFACTURERS SPECS., MIN 3.5" MAX.



7 THICKENED SLAB DETAIL

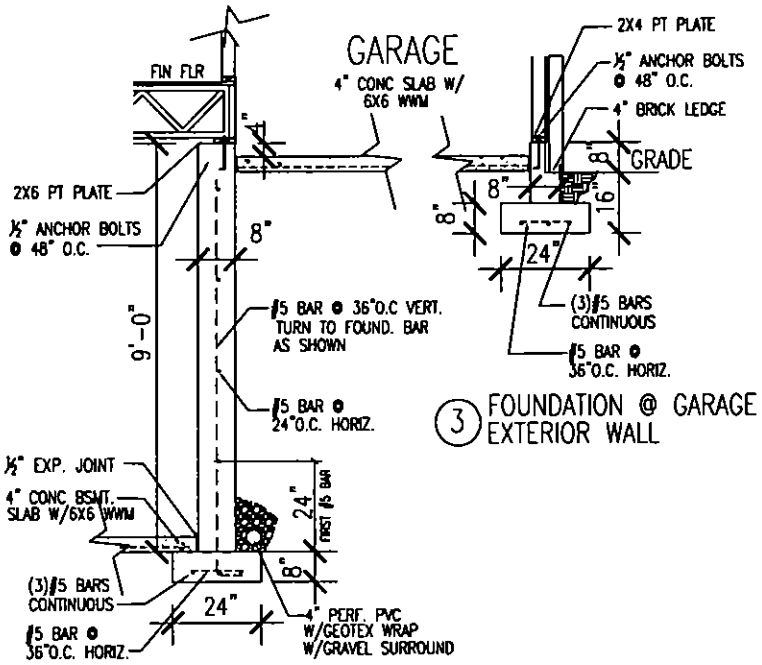


6 FOUNDATION @O.H.D. OPENING



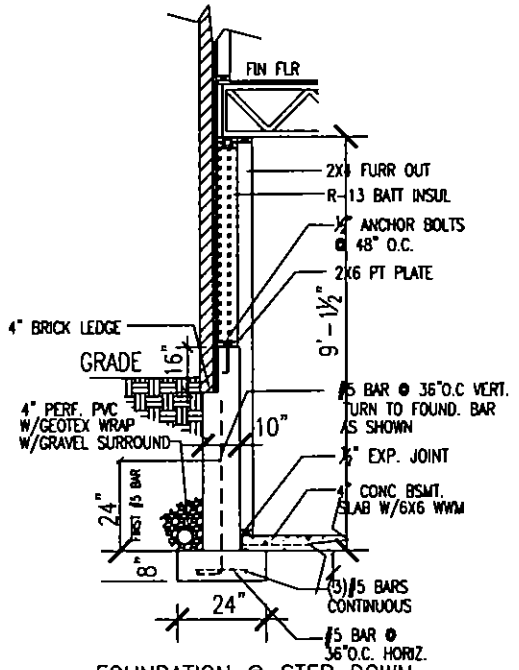
5 FOUNDATION @ WALKOUT DETAIL

SHEET: D1	DATE: 11/28/13	BRITT RESIDENCE	JCBHome Designs
DRAWN BY: BEAN	FOUNDATION DETAILS		CHARLOTTE NC 704-716-4005

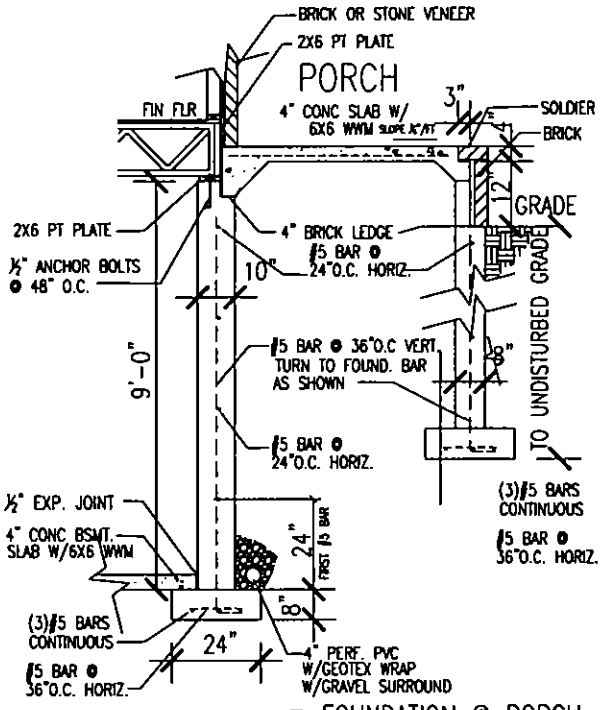


3 FOUNDATION @ GARAGE EXTERIOR WALL

4 FOUNDATION @ GARAGE INTERIOR WALL



2 FOUNDATION @ STEP DOWN FOUNDATION WALL



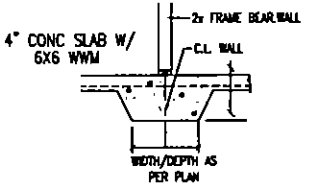
1 FOUNDATION @ PORCH DETAIL

MASONRY SPECIFICATIONS

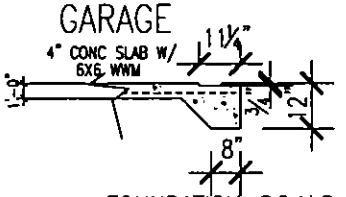
1. CORROSION RESISTANT 22 GA. TIES 7/16"ø LONG, SPACED @ 24" MAX. HORIZONTAL, NOT TO EXCEED 2.67 SQ.FT. WALL AREA
2. WEEP HOLES TO BE PLACED @ EVERY OTHER HEAD JOINT ON THE BOTTOM COURSE OF BRICK RUNS.
3. POLY DRAPE TO EXTEND MIN. 2" BELOW BRKP
4. TYPE "S" MORTAR FOR ALL LOAD BEARING BRICK CONDITIONS.

GENERAL SPECIFICATIONS

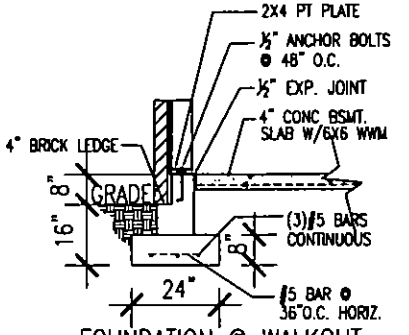
1. FOOTING WIDTHS ARE BASED ON 2000 PSF SOIL BEARING CAPACITY AND TABLE R401.4.1, 2012 IRC
2. MAS/MAB ANCHORS SPACED MAX. 7' O.C., LOCATED WITHIN 12" OF ALL CORNERS, @ AMENDED MIN. 7" PER R403.1.6
3. MAS/MAB ANCHORS INSTALLED PER MANUFACTURERS SPECS., MAB 33" MAX.



7 THICKENED SLAB DETAIL

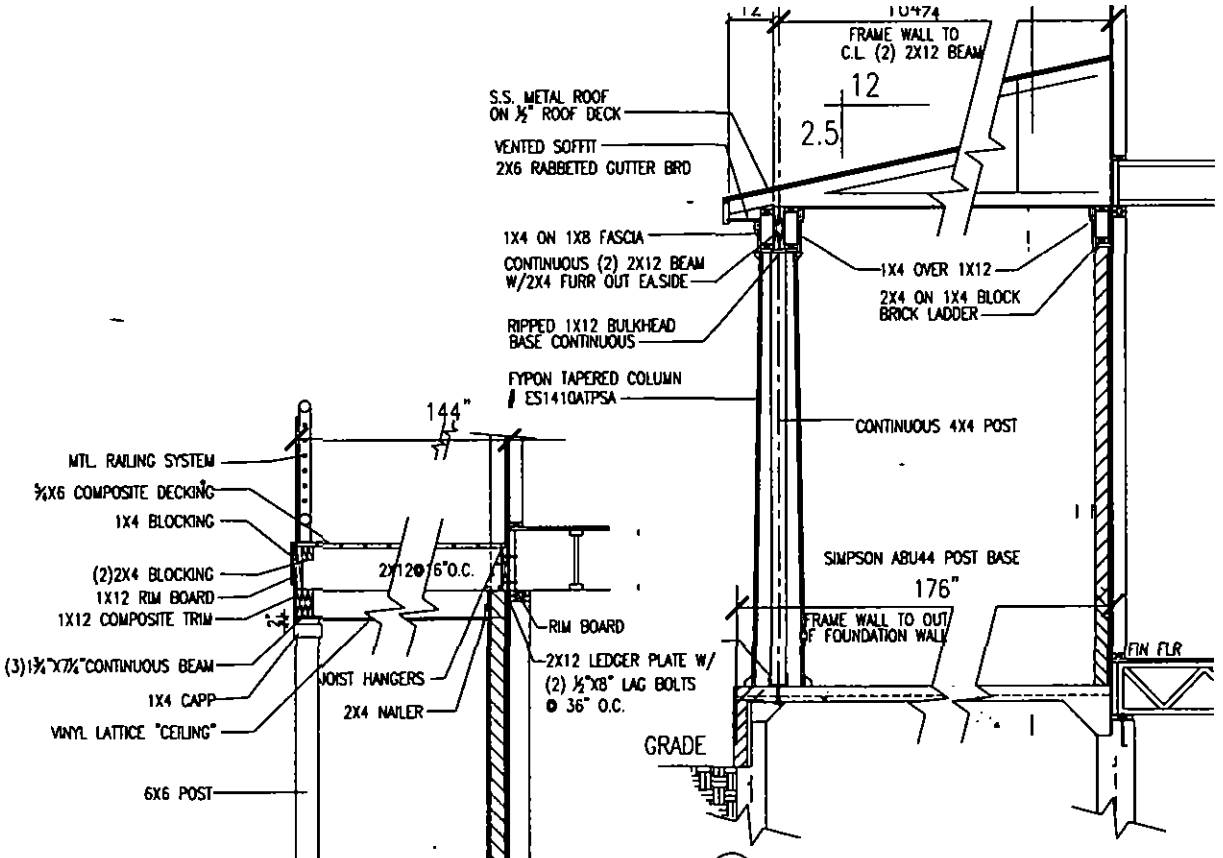


6 FOUNDATION @O.H.D. OPENING

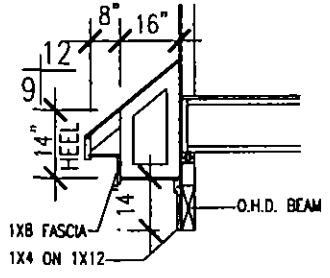


5 FOUNDATION @ WALKOUT DETAIL

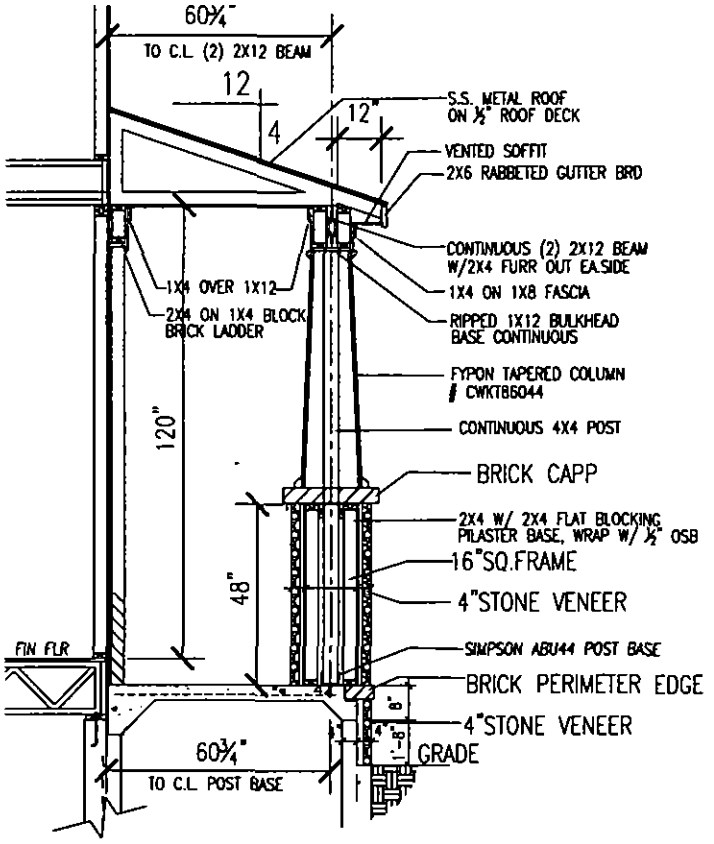
SHT. NO. D1	DATE 11/28/13	BRITT RESIDENCE	JCBHome Designs
	DRAWN BEAN	FOUNDATION DETAILS	CHARLOTTE NC 704-516-4035



(2) REAR PORCH SECTION



(3) EYEBROW ROOF OVER GARAGE DOOR DETAIL



(1) FRONT PORCH/COLUMN DETAIL

(4) FAMILY/STUDY DECK & PATIO DETAIL

SHEET D2	REVISED 11/28/13	BRITT RESIDENCE	JCBHome Designs
DRAWN BEAN		WALL SECTIONS, DETAILS	CHARLOTTE NC 704-910-4005



13015 NINEBARK TL

19937150

1/8/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: _____

TC: _____

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.

" See Attached "

OWNER/AGENT SIGNATURE

DATE 10/23/03

APPROVAL DATE _____

White - Health Department's Copy Canary - E.H.S. Copy Pink - Owner's Copy

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

Sheet: 1 of 2
Property ID: PO 199-371-03
Lot #: 7
File #: 5558B ACS
Code: 1 54198

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: *The Sanctuary at Lake Wylie* *Applicant:* *Toney Jacobs*
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277 Date Evaluated: 04/22/2004
Proposed Facility: Residence Design Flow (.1949): 600gpd Property Size: .75a Inv.
Location of Site: Ninebark Trail Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] 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	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-7	GR/CL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49	N/A	NONE	PS, IV
		7-49	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-9	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	"	"	"
		9-48	SBK/C	FI/SEXP/S/P					
3	"	0-6	GR/CL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49	"	"	"
		6-13	SBK/CL	FR/SEXP/SS/SP					
		13-49	SBK/CL	FI/SEXP/S/P					
4	"	0-3	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					
5	"	0-4	GR/CL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49	"	"	"
		4-49	SBK/C	FI/SEXP/S/P					
6	"	0-3	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.3GPD/FT^2	.3GPD/FT

Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 4/26/2004. W. R. Marlin
Others Present:

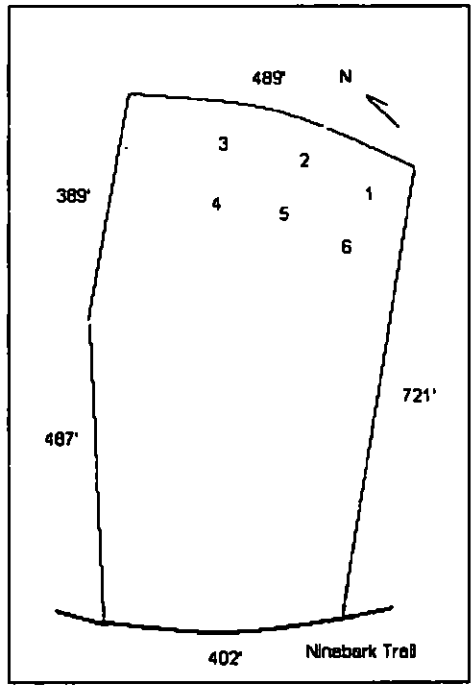
COMMENTS:

100% repair, do not install system when soils are wet

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-Food 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		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
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



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

Sheet: 1
Property ID: PO 199-521-01
Lot #: 7
File #: 5419B
Code: 1

ACS

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Sanctuary at Lake Wylie
Applicant: Toney Jacobs
Address: 10933 Ballantyne Crossing Ave., Charlotte, N. C. 28277
Date Evaluated: 11/20/2003
Proposed Facility: Residence
Design Flow (.1949): 840gpd
Property Size:
Location of Site: Ninebark Trail
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] 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	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-4	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		4-48	SBK/ABK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-5	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		5-48	SBK/ABK/C	FI/SEXP/SS/SP					
3	"	0-4	GR/CL	FR/SEXP/SS/SP	>50" TO SOIL WETNESS	50	"	"	"
		4-50	SBK/ABK/C	FI/SEXP/S/P					
4	"	0-3	GR/CL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49	"	"	"
		3-49	SBK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.3GPD/FT^2	.3GPD/FT^2

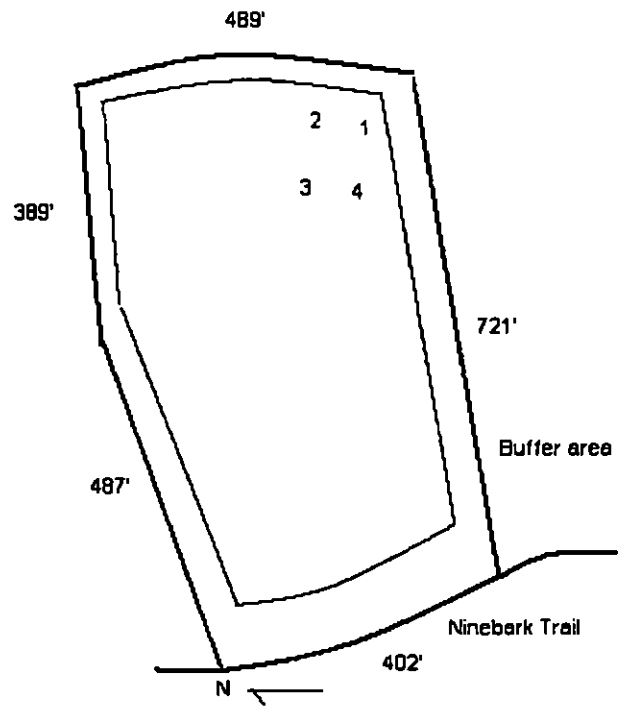
Other Factors (.1946): _____
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 11/21/2003, W. R. Marlin
Others Present:

FILE # 5419B

COMMENTS: 100% repair

LANDSCAPE POSITIONS	GROUP	TEXTURES	.1955 LTAR	CONSISTENCE MOIST	WET
R-RIDGE	I	S-SAND	1.2 - 0.8		
S-SHOULDER SLOPE		LS-LOAMY SAND		VFR-VERY FRIABLE	NS-NON-STICKY
L-LINEAR SLOPE				FR-FRIABLE	SS-SLIGHTLY STICKY
FS-FOOT SLOPE	II	SL-SANDY LOAM	0.8 – 0.6	FI-FIRM	S-STICKY
N-NOSE SLOPE		L-LOAM		VFI-VERY FIRM	VS-VERY STICKY
H-HEAD SLOPE				EFI-EXTREMELY FIRM	NP-NON-PLASTIC
CC-CONCLAVE SLOPE	III	SI-SILT-	0.6 – 0.3		SP-SLIGHTLY STICKY
CV-CONVEX SLOPE		SIL-SILT LOAM			P-PLASTIC
T-TERRACE		CL-CLAY LOAM			VP-VERY PLASTIC
FP-FLOOD PLAN		SCL-SANDY CLAY LOAM			
		SICL-SILTY CLAY LOAM			
	IV	SIC-SILTY CLAY	0.4 – 0.1		
		C-CLAY			
		SC-SANDY CLAY			

STRUCTURE	MINERALOGY
SG-SINGLE GRAIN	SLIGHTLY EXPANSIVE
M-MASSIVE	
CR-CRUMB	EXPANSIVE
GR-GRANULAR	
SBK-SUBANGULAR BLOCKY	
ABK-ANGULAR BLOCKY	
PL-PLATY	
PR-PRISMATIC	



FEE: _____ **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: _____ **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 4/26/04 PERMIT NO: 5419B
PARCEL NO: 199-621-01

JOB LOCATION ADDRESS: THE SANCTUARY @ LAKE WYLIE
PROPERTY OWNER: THE SANCTUARY @ LAKE WYLIE LOT #7
BUILDING CONTRACTOR:
SUBDIVISION NAME: THE SANCTUARY @ LAKE WYLIE
AUTHORIZATION ISSUED BY: DAVID L. CORNELIUS DATE: 4/26/04
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 5419B, 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, CONSTRUCTION, ALTERATION AND/OR REPAIR 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 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 AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: INSTALL ACCORDING TO PLANS SUBMITTED BY TONEY JACOBS & ASSOCIATES.

OWNER CERTIFICATION

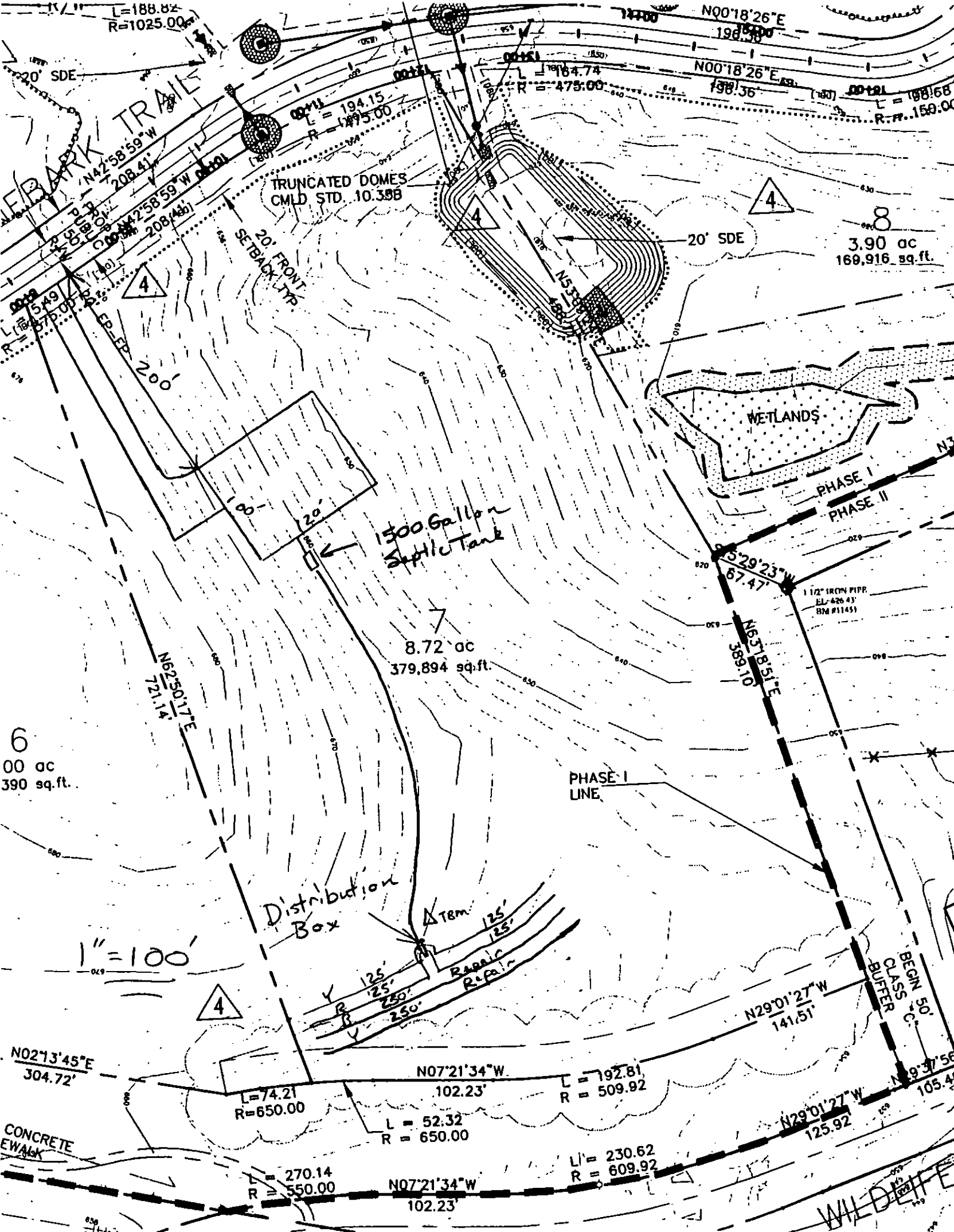
I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE — DATE 4/26/04

Design Specifications for Lot 7 at

The Sanctuary, MCHD File # 5419B

System Type:	primary: repair:	gravity , 25% reduction gravity, 25% reduction
Daily design flow:		600 gpd.
Septic tank size:		1500 gal. (2 compartments)
Pumping tank size:		N/A
Effluent loading rate:		0.30 gpd/ft^2 for primary and repair
Total length and diameter of supply pipe:		N/A
Number and length of laterals:		4@ 125 ft. 25% reduction primary
Flow rate through the system:		N/A
Pump requirements:		N/A
Dosing volume:		on demand
Depth of water pumped per dose:		N/A
Check valve:		N/A
Siphon break hole:		N/A
Distribution device		Distribution Box


L=188.82'
R=1025.00'
20' SDE
N00°18'26"E
196.36'
L = 164.74'
R = 475.00'
N00°18'26"E
196.36'
L = 194.15'
R = 475.00'
N42°58'59"W
208.41'
N42°58'59"W
208.41'
TRUNCATED DOMES
CMLD STD. 10.38B
20' FRONT SETBACK TYP.
20' SDE
3.90 ac
169,916 sq.ft.
WETLANDS
PHASE I
PHASE II
S29°23'W
67.47'
1 1/2" IRON PIPE
EL. 626.43'
BM #1145
N63°18'51"E
389.10'
1500 Gallon Septic Tank
8.72 ac
379,894 sq.ft.
N62°50'17"E
721.14'
PHASE I LINE
D'istribution Box
1"=100'
Berm
Riprap
Riprap
N29°01'27"W
141.51'
BEGIN 50' CLASS BUFFER
N02°13'45"E
304.72'
N07°21'34"W
102.23'
L = 192.81
R = 509.92
L=74.21
R=650.00
L = 52.32
R = 650.00
N29°01'27"W
125.92'
CONCRETE SIDEWALK
L = 270.14
R = 550.00
N07°21'34"W
102.23'
L = 230.62
R = 609.92
WILDLIFE

FEE: 260.00
DATE: 5/6/04
Credit applied

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

( ) CRT

TYPE APPLICATION: ___ NEW SYSTEM ___ EXPANSION/ ALTERATION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTE

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 5568

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION: PO 199-371-03

TAX/PARCEL NUMBER: PO 199-521-01

STREET ADDRESS: Nine Back Trail

SUBDIVISION OR MOBILE HOME PARK NAME: Sanctuary

LOT NUMBER: 7

TYPE OF BUILDING (CHECK ONE):

___ SINGLE MOBILE HOME(S)
___ DOUBLE WIDE (D)
___ HOUSE (H)
___ MODULAR HOME (M)
___ MULTIPLE FAMILY (U)
___ OTHER (O)

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
___ 1 CHARLOTTE
___ 2 DAVIDSON
___ 3 CORNELIUS
___ 4 PINEVILLE
___ 5 MATTHEWS
___ 6 HUNTERSVILLE
___ 7 MINT HILL

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: 5 NUMBER OF OCCUPANTS: 10

CLOSING DATE _____

FOUNDATION FOR RESIDENCE:

✓ WITHOUT BASEMENT
___ ON SLAB
___ CRAWL SPACE
___ WITH BASEMENT /PLUMBING
___ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE):

___ COMMUNITY (C)
___ SHARED WELL (S)
✓ MUNICIPAL (M)
___ OTHER 'SPRINGS' (O)
___ PRIVATE WELL (P)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES	___ YES ✓ NO	WELL, SPRINGS OR WATERLINES	___ YES ✓ NO
EXISTING WASTEWATER SYSTEMS	___ YES ✓ NO	DESIGNATED WETLANDS	___ YES ___ NO
EASTMENTS OR RIGHT-OF-WAYS	___ YES ✓ NO		

PROPERTY OWNER:

NAME: (LAST) Sanctuary at Lake Wylie (FIRST) (MI)

ADDRESS: 10933 Ballantyne Commons Ave

CITY: Charlotte STATE: NC ZIP: 28277

DAYTIME PHONE: ( ) —

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) Jacobs (FIRST) Corey (MI) C

DAYTIME PHONE: 704 663 - 6905

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: _____ DATE: 5/6/04

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

FEE: 200.00 CK

DATE: 10/23/03 pc

APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

( ) CRT

TYPE APPLICATION: ___ NEW SYSTEM ___ EXPANSION/ ALTERATION OF EXISTING SYSTEM ___ REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 5419B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 199-521-01

STREET ADDRESS: off Eastland Point Rd

SUBDIVISION OR MOBILE HOME PARK NAME: The Sanctuary at Lake Wylie, LLC

LOT NUMBER: 7

TOWNSHIP (CHECK ONE):

- ✓ 0 MECKLENBURG
- ___ 1 CHARLOTTE
- ___ 2 DAVIDSON
- ___ 3 CORNELIUS
- ___ 4 PINEVILLE
- ___ 5 MATTHEWS
- ___ 6 HUNTERSVILLE
- ___ 7 MINT HILL

CLOSING DATE _____

TYPE OF BUILDING (CHECK ONE):

- ___ SINGLE MOBILE HOME(S)
- ___ DOUBLE WIDE (D)
- ___ HOUSE (H)
- ___ MODULAR HOME (M)
- ___ MULTIPLE FAMILY (U)
- ___ OTHER (O)

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

- ___ WITHOUT BASEMENT ON SLAB
- ___ CRAWL SPACE
- ___ WITH BASEMENT /PLUMBING
- ___ WITH BASEMENT /NO PLUMBING

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE): ___ COMMUNITY (C) ✓ MUNICIPAL (M) ___ PRIVATE WELL (P) ___ SHARED WELL (S) ___ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES	___ YES ✓ NO	WELL, SPRINGS OR WATERLINES	___ YES ✓ NO
EXISTING WASTEWATER SYSTEMS	___ YES ✓ NO	DESIGNATED WETLANDS	___ YES ✓ NO
EASTMENTS OR RIGHT-OF-WAYS	✓ YES ___ NO		

PROPERTY OWNER:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: (LAST) The Sanctuary at Lake Wylie, LLC (FIRST) (MI)	NAME: (LAST) Jacobs (FIRST) Tracy (MI) C
ADDRESS: 10933 Ballantyne Crossing Ave	DAYTIME PHONE: 704 663 - 6905
CITY: Charlotte STATE: NC ZIP: 28277	m 704 582 9219
DAYTIME PHONE: (704) 544 - 0201 ext 226	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Tracy C Jacobs, CPSS (Agent) DATE: 10/23/03

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102