Paid $195.00 10-2-13 PM

S&ME

September 30, 2013

Mr. John Giambra
918C Brawley School Road
Mooresville, North Carolina 28117

Reference: **Technical Assistance with Fast Track Septic Permitting**
Lot 1 – Washam Point
Iredell County, North Carolina
S&ME, Inc. Project No. 1584-13-114

Dear Mr. Giambra:

S&ME, Inc (S&ME) has provided technical assistance to obtain a new possible four bedroom septic Improvement Permit from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with S&ME Proposal No. 1584-13-P258 dated September 25, 2013.

Attached is the Application for the Septic Improvement Permit, the Environmental Health Requirements form, and the ICHD Fast Track requirements presented to the ICHD on your behalf for Lot 1 Washam Point Subdivision. The lot was originally permitted by the ICHD in 2007. The 2007 Improvement Permit is for a 4 bedroom house and states the primary system can be a gravity conventional or 25 Percent Reduction drainfield with the same repair. This Improvement Permit is still valid because of the NC House and Senate bills suspending the permit expiration date.

It is our understanding you now want to apply for a new Improvement Permit for a new 4 bedroom house location, a detached garage, and a proposed pool pad. Based on a September 27, 2013 phone conversation with Mr. Brady Freeman of the ICHD, the new permit submittal will be considered an "Intermediate Relayout" with an Iredell County fee of $195.

The property corners, proposed house, garage, and pool were flagged by you prior to our site visit. You submitted to S&ME a site plan sketch showing the property boundaries and the proposed house, garage, and pool. We are proposing a 4 bedroom gravity, 25% reduction primary septic system with a T&J Panel repair area. Four hundred and thirty-five feet of proposed 25 percent line are shown on the site plan. The soils were approved at a 0.3 gallon per day per square foot Long Term Acceptance Rate in 2007 by the ICHD. We are proposing the same LTAR for the new Improvement Permit. We understand that an individual water well will be required to supply water for the lot.

S&ME described the 8 backhoe pits you dug on the lot and flagged the proposed septic lines with a laser level and wire pin flags (see attached profile descriptions and site plan). A small amount of fill material (approximately 1 foot) has been placed on the lot near the

end of the lower 125 foot primary system line. This material should be removed from the proposed line during installation. The fill material near pits 7 and 8 that is outside the system area can remain on the lot.

Once the septic area is permitted, it should be protected from grading and construction traffic. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system. No fill shall be placed on the septic area. Surface water runoff and gutter downspouts should be diverted away from the installed septic system. The lot naturally slopes to a broad, flat draw. A ditch or swale should be placed on the lot to enhance drainage from the septic drainfield. The drainage ditch should be at least 25 feet downslope of the drainfield. The cut for the pool wall should be at least 15 feet from the septic tank and drainfield. A small berm can be placed along the east property boundary to divert runoff from the neighbor's lot away from the proposed drainfield.

S&ME appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you and the ICHD with the Fast Track site evaluation. The attached plan is not intended to be a Professional Engineer plan. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

S&ME, Inc.



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

Rob Willcox, L.S.S.
Natural Resources Services Leader

Attachments:

1. ICHD Improvement Permit Application, and Health Department Requirements
2. Site Plan and System Specifications
3. 2007 ICHD Permit, GIS Information and Record Plat

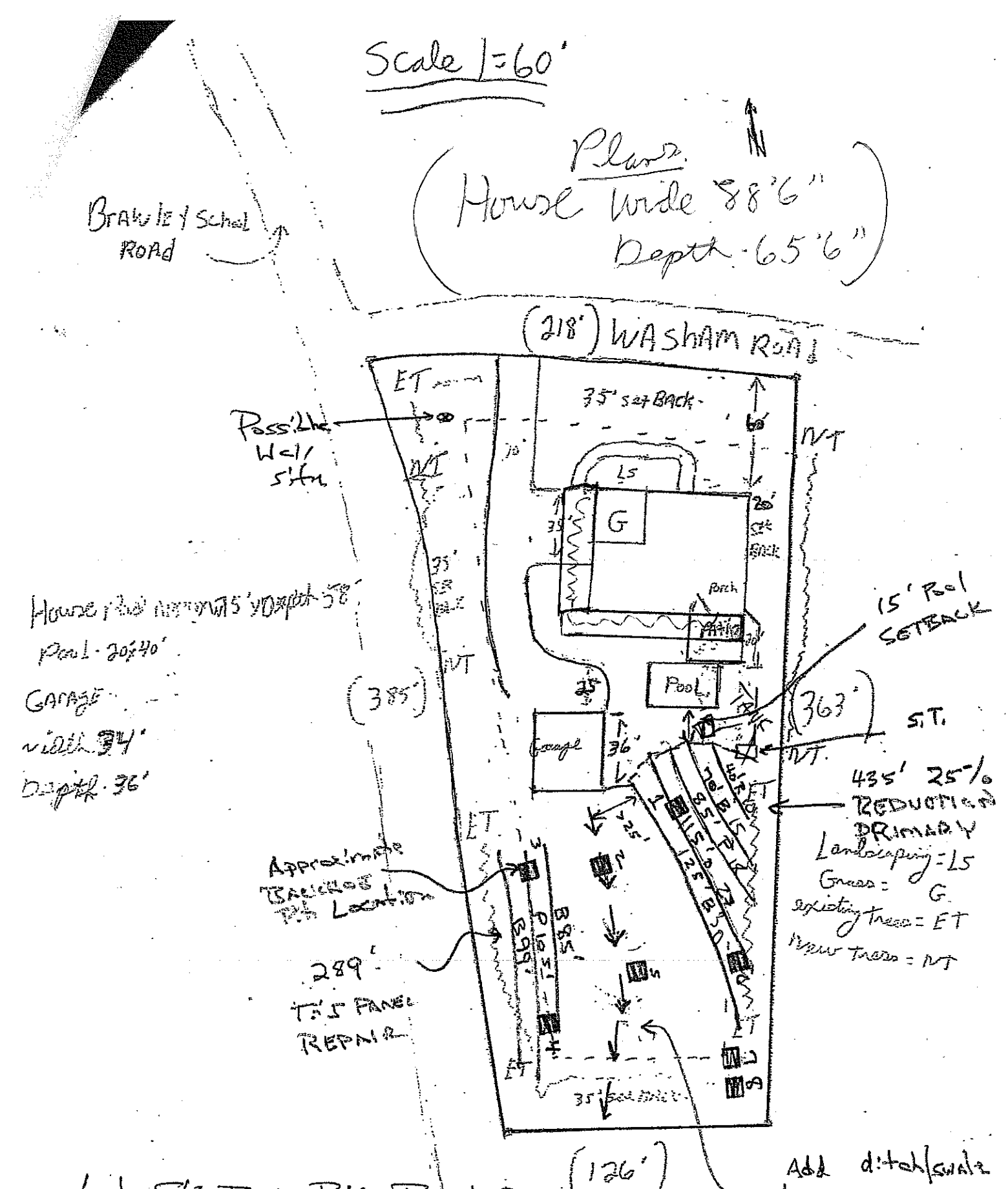
Copy: ICHD

S:\1584\PROJECTS MASTER\Projects 2013\1584-13-114 John Giambra - Washam Road\1584-13-114 - Lot 1 Washam Point Summary Letter.doc

Scale 1=60'

Plans

(House wide 88'6"
Depth - 65'6")



- Lot SKETCH BY JOHN GRAMBRA w/ SEPTIC INFO BY SITE
- SITE PROJECT # 1584-13-114

* SKETCH MUST ACCOMPANY 5-30-13 REPORT.

Lot 1 Washam Point Fast Track Septic System Information

John Giambra - S&ME Job No. 1584-13-114

Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System Type	**25% Reduction**
LTAR (gpd)/ft2	**0.3**
Total Ft. Line	435 (400 required)
No. Lines	5 (See Table)
Pump Required	No
Distribution Device	drop boxes or as specified by ICHD
Maintenance Agreement Required	No
Repair System	**LP PPBPS** 289 ft. shown - 267 ft. required

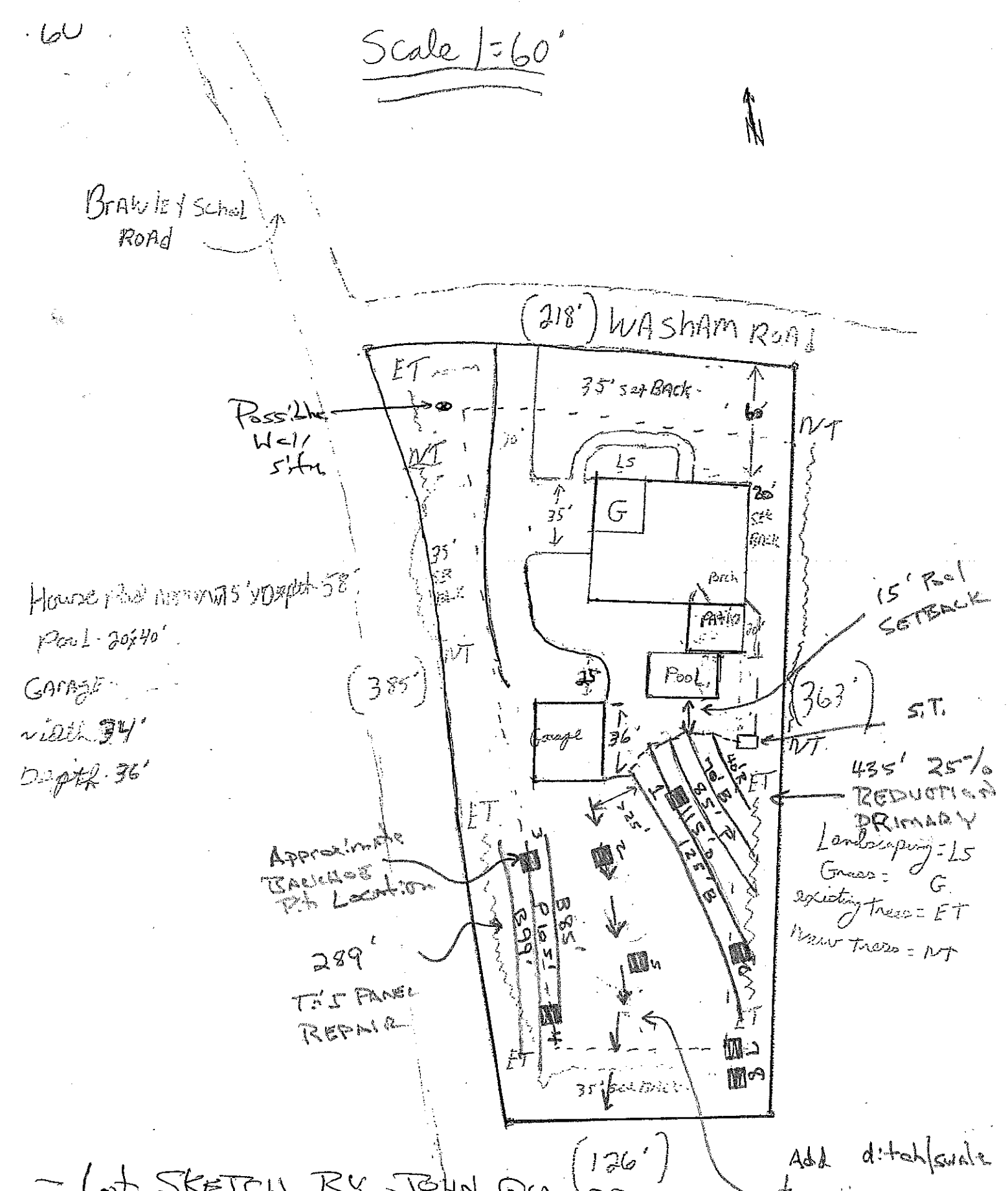
Summary of Primary Nitrification Line Specifications

Line No.	Rod Reading (ft)	Use	Line Color	System Type	Line Length (Ft.)
1	3.6	System	red	25% Reduction	40
2	4.3	System	blue	25% Reduction	70
3	4.9	System	pink	25% Reduction	85
4	6	System	orange	25% Reduction	115
5	6.6	System	white	25% Reduction	125
					Total System: 435'

Tank		white	1000 gal (2 compartment)	
house/patio	2.6	red		

60'

Scale 1:60'



- Lot SKETCH BY JOHN GRAMSKA with SEPTIC INFO BY SITE
- SITE PROJECT # 1584-13-114

* SKETCH MUST ACCOMPANY 5-30-13 REPORT.

S&ME, INC.
SITE/SOIL EVALUATION

John Gladson

Project No. 1564-13-114 **Phone No.** _____ **Date:** 9-27-13
Location Lot 1 Washington **Pin** _____ **County:** Guilford **Property Size** 1.45 ac

Proposed Facility: 4 BR House **Water Supply:** On-Site Well ☒ **Evaluation:** Auger Boring ☐
Community ☐ Pit ☒
Described By: Pop — must be done by [illegible] Public ☐ Cut ☐
Weather: Sunny, warm **Antecedent Moisture** dry **Surface Water:** —

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
Landscape Position %	4K 5-10%	H 0%	4U 4-5	L - 5%
Horizon Depth I	0-5"	0-32	0-8	0-10
Color Munsell	10yr	10yr	10yr	
Texture	cl	c	cl	sandy
Structure	sg - weak gr	wk sbk		
Consistence		fr 3/0		
Boundary				
Horizon Depth II	5 - 25 Bt	32-49	8 - 32	10 - 29
Color – Munsell	2.5y	5yr 5/6	2.5y	
Texture	c/cl	c	c	s
Mottles	f	common f		
Structure	m wk sbk	m wk sbk	m f sbk	wk sbk, Asb
Consistence	fr 5/6	fr 5/0	fr 5/0	
Boundary				
Horizon Depth III	25 - 50.5+		32 - 52+	29 - 57+
Color – Munsell	2.5y 6/1		2.5y	
Texture	cl - sc		cl	
Mottles	f c 5yr		f 5yr	sandy
Structure	wk sbk		wk sbk	
Consistence	fr 5/6		fr 5/6	
Boundary				
Horizon Depth IV				
Color – Munsell	5y 7/1			
Texture	sand			
Mottles	wet			
Structure	4-8"			
Consistence				
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite	4-8+			
SHWT	3'	3'	3'	3'
Classification	SC	SC	SC	SC

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	angular blocky
pl	platy
pr	prismatic

S&ME, INC.
SITE/SOIL EVALUATION

2-2

Project No. 1584-13-114 **Phone No.** _____ **Date:** 9-27-13
Location _____ **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: C/ Pool **Water Supply:** On-Site Well ☐ Community ☐ Public ☐ **Evaluation:** Auger Boring ☐ Pit ☒ Cut ☐
Described By: Pat
Weather: _____ **Antecedent Moisture** _____ **Surface Water:** _____

FACTORS	PROFILE 5	PROFILE 6	PROFILE 7	PROFILE 8
Landscape Position %	H <5%	L ~5%	L ~5%	L ~5%
Horizon Depth I	0-31	D.S	0-24	0-7
Color Munsell	br			
Texture	cl. c.	fill	fill	Fill
Structure	wsbk/c		gravel	
Consistence	fr sl/p		Asphalt	
			soil	
Boundary				
Horizon Depth II	31-52	5-16	24-34	7-24
Color – Munsell	sh br	br	sand br	compact
Texture	c	cl	c-cl	cl-c
Mottles	c m			
Structure	m-w sbk	wsbk	wsbk	
Consistence	fr sl/p	fr sl/sp	fr sl/p	
Boundary				
Horizon Depth III		16-32	34-52	24-52
Color – Munsell		m	m	m
Texture		c	c-cl	cl
Mottles			f w/f 10R	
Structure		m-f sbk	fsbk	m-f sbk
Consistence		fr sl/p	fr sl/p-s/p	fr sl/sp
Boundary				
Horizon Depth IV		32-52 Sc	sil	
Color – Munsell		10YR 5/8		
Texture		cl		
Mottles		f-c SDR		
Structure		wsbk		
Consistence		fr sl/p		
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite				
LTAR				
Classification	PS-3	PS-3	PS-3	PS-3
			24+	24+

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
FS	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	Loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sbk	subangular blocky
abk	angular blocky
pl	platy
pr	prismatic

IREDELL COUNTY HEALTH DEPARTMENT — STATESVILLE 704-878-5305 — MOORESVILLE 704-664-5281

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM INSPECTION

PERMIT# 146752 PIN# 4624340904.000

OWNER OR APPLICANT Kenneth Decker Homes, Inc DATE 12/3/07

ADDRESS PO Box 339 & Mooresville, NC 28117 PHONE: Business _____ Home _____

LOCATION Brawley School Rd. TL 1st Washam Rd. on corner of Washam & Brawley School Rd. on Right.

SUBDIVISION Washam Point BLOCK / SECTION _____ LOT 1 LOT AREA 1.45 ac SITE CLASS PS DESIGN FLOW 480 L.T.A.R. .03

Septic Tank: 1000 Gallons: STB _____ Date _____

Pump Tank: _____ Gallons: PT _____ Date _____

Pump Make: _____ Model _____ Serial No. _____

Nitrification Field: No. Fields 1 Square Feet 1600 Linear Feet 533'

No. Lines 5@103' Trench Width 36" Max Trench Bottom Depth 36" Gravel Depth 12"

☑ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI

System Description: Conventional or 25% Red.

Repair System Description: Same

Maintenance Agreement Required: ☐ Yes ☑ No

☑ Gravity ☐ Pressure ☐ Slab ☑ Crawl Space ☐ Basement w/plumbing ☐ Basement wo/plumbing

☑ House/Mod. Home ☐ Mobile Home ☐ Business ☐ Other

No. Bedrooms 4 No. Persons _____ No. Employees _____

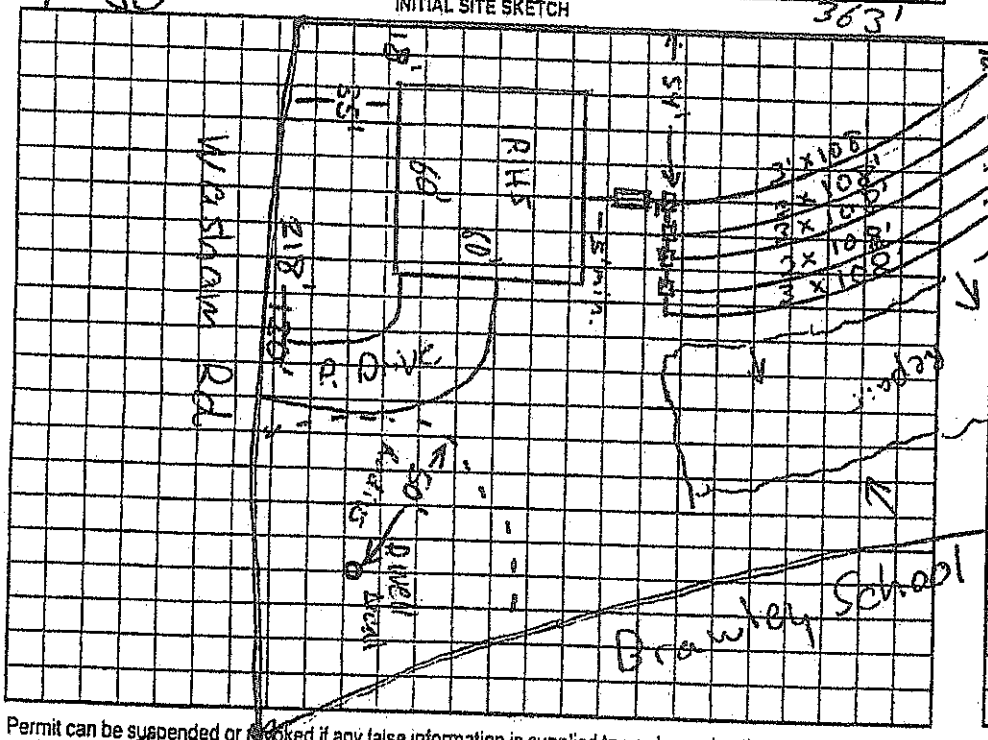
Water Supply: ☑ Individual ☐ Public ☐ Community

Comments:/Conditions: 25% Reduction System also Accepted Use drop boxes or a DB with Flow Levelers for equal distribution.

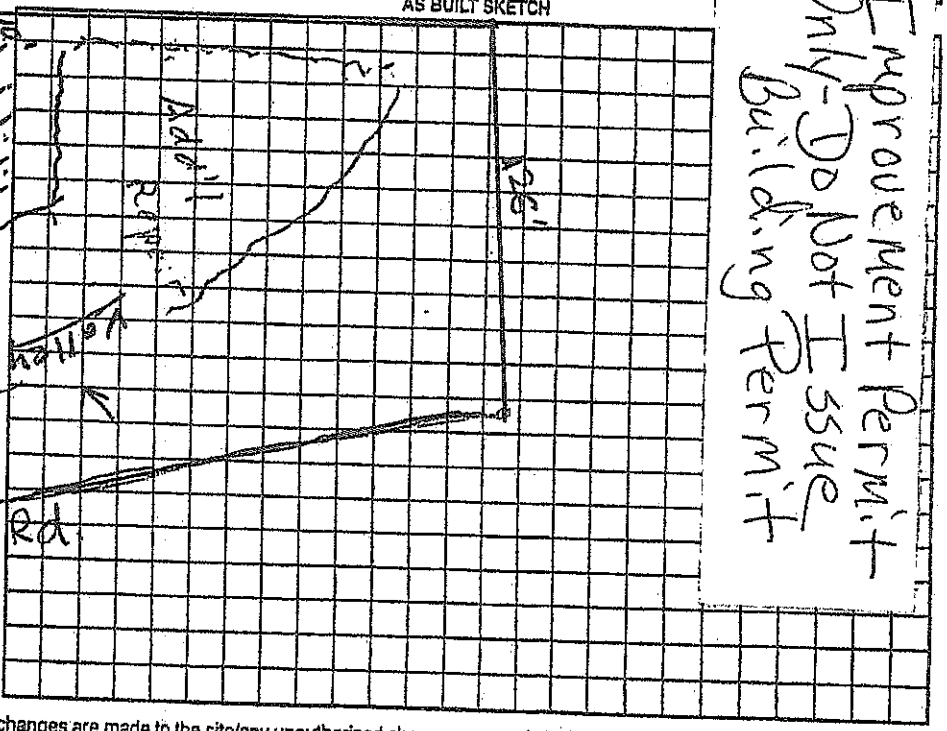
Comments:/Conditions:

1"=60'

INITIAL SITE SKETCH



AS BUILT SKETCH



Improvement Permit Only - Do Not Issue Building Permit

Permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit with plat valid without expiration ☐ Improvement Permit with site plan valid for sixty months ☑ Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed: _____ date 12/4/07

Improvement Permit by: Anthony Colon Jr. date 12/3/07

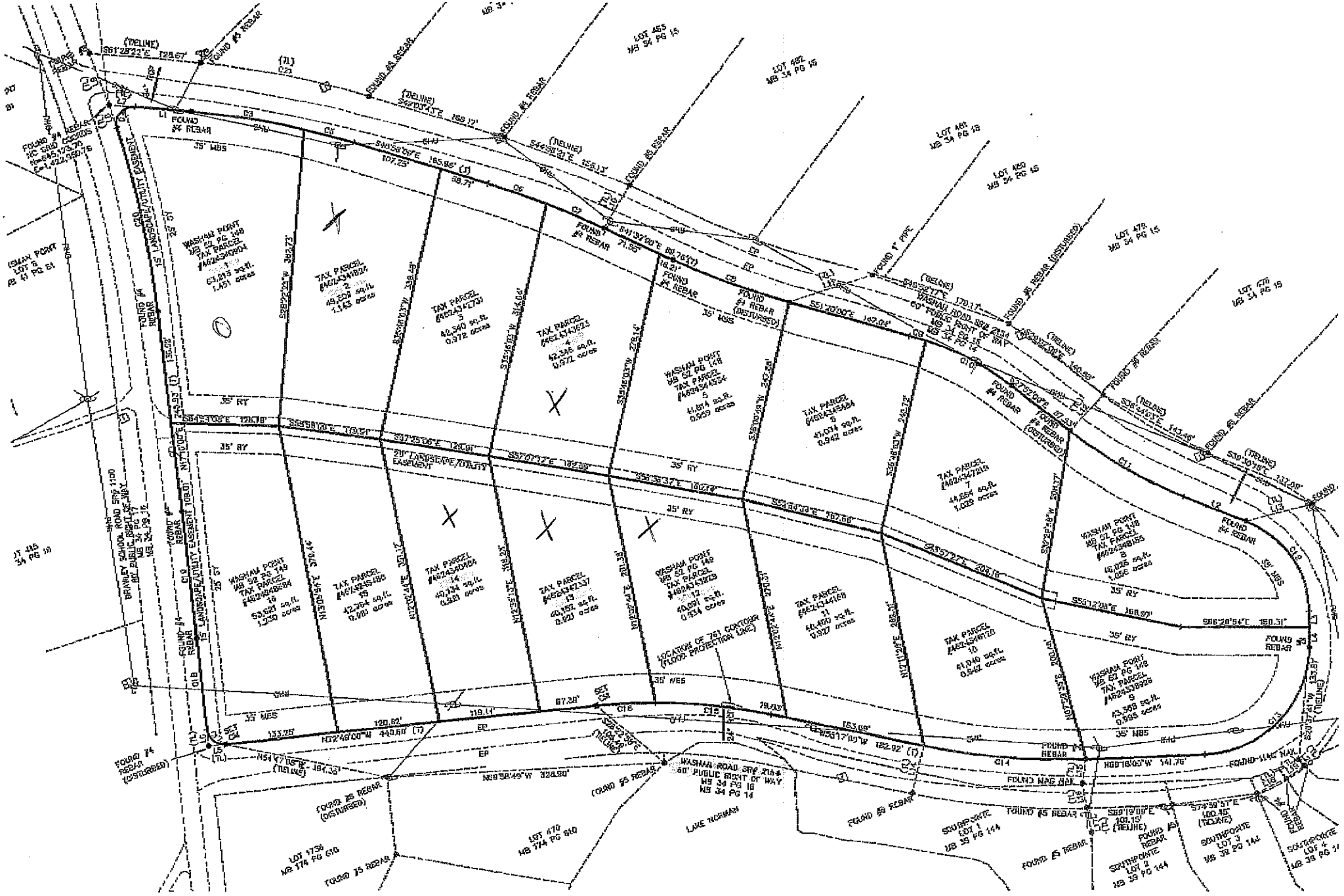
Authorization to Construct by: _____ date _____

Installed by: _____

Operation Permit by: _____ date _____

Existing System Inspection by: _____ date _____

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK


WASHAM POINT
MB 52 PG 148
TAX PARCEL
#4624340924
1.451 acres
TAX PARCEL
#4624341824
1.163 acres
TAX PARCEL
#4624342721
0.972 acres
TAX PARCEL
#4624343621
0.972 acres
WASHAM POINT
MB 52 PG 148
TAX PARCEL
#4624344554
0.959 acres
TAX PARCEL
#4624344728
0.942 acres
TAX PARCEL
#4624344728
1.028 acres
WASHAM POINT
MB 52 PG 148
TAX PARCEL
#4624346925
1.056 acres
WASHAM POINT
MB 52 PG 148
TAX PARCEL
#4624346824
1.259 acres
TAX PARCEL
#4624346824
0.991 acres
TAX PARCEL
#4624346824
0.921 acres
TAX PARCEL
#4624346727
0.921 acres
WASHAM POINT
MB 52 PG 148
TAX PARCEL
#4624346628
0.934 acres
TAX PARCEL
#4624346528
0.927 acres
TAX PARCEL
#4624346428
0.942 acres
WASHAM POINT
MB 52 PG 148
TAX PARCEL
#4624338925
0.995 acres
WASHAM ROAD SR# 2184
60' PUBLIC RIGHT OF WAY
MB 34 PG 16
MB 34 PG 14
BRAWLEY SCHOOL ROAD SR# 1100
80' PUBLIC RIGHT OF WAY
MB 34 PG 17
MB 34 PG 16
LAKE NORMAN
LOCATION OF 761 CONTOUR
(FLOOD PROTECTION LINE)
20' LANDSCAPE/UTILITY EASEMENT
15' LANDSCAPE/UTILITY EASEMENT
35' RY
35' MBS
35' WBS
FOUND #4 REBAR
FOUND #5 REBAR
FOUND 1" PIPE
FOUND NAIL AND DISK
SOUTHPOINTE
LOT 1
MB 39 PG 144
SOUTHPOINTE
LOT 2
MB 39 PG 144
SOUTHPOINTE
LOT 3
MB 39 PG 144
SOUTHPOINTE
LOT 4
MB 39 PG 144
LOT 1736
MB 178 PG 610
LOT 479
MB 174 PG 610
LOT 485
MB 54 PG 15
LOT 484
MB 54 PG 15
LOT 483
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LOT 482
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