

7031 SAMPLE RD

02320102

L47

1/11/2008

duponbj

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

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6785 B WASPS App #: 1402

Primary ES assigned to project: OS

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: _____ Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR	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 ☐

II. 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: IK Date performed: 4-2007

SEPTIC FEE: 200 chk 1402
DATE: 9/7/06
CRT [ ]

PERMIT APPLICATION FOR A RESIDENTIAL SITE
IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION
FOR ON-SITE WASTEWATER SYSTEM
NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL
MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

GWS – RES. APP 07/05

WELL FEE: _____
DATE: _____
CRT [ ]

FILE # 6785B

SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFY PLOT PLAN

WELL / TYPE APPLICATION: ☑ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

JOB LOCATION INFORMATION:

TAX/PARCEL #: 02320102 pcl
STREET ADDRESS: Sample Road
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #: 47
TOWNSHIP:

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

BUILDING INFORMATION:

TYPE OF BUILDING:

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

HEATED SQUARE FOOTAGE: ~5000
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 8

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:
WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☐ NO TYPE:

WATER SUPPLY:

☑ MUNICIPAL (M) ☐ PUBLIC (C) ☐ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☑ NO	WELLS, SPRINGS, OR WATER LINES	☐ YES	☑ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☑ NO	DESIGNATED WETLANDS	☐ YES	☑ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES	☑ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☑ NO

PROPERTY OWNER:

NAME: FAison - Sample Road, LLC
ADDRESS: 121 W. Trade St., 27th Floor
CITY: Charlotte
STATE: NC ZIP: 28202-5399
HOME PHONE: WORK PHONE: 704 972 2674
MOBILE PHONE: FAX: 972 2676

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: STME Tony Jacobs
ADDRESS: 385 Timber Rd
CITY: Mooresville
STATE: NC ZIP: 28115-7899
HOME PHONE: WORK PHONE: 704-662-8625
MOBILE PHONE: 704 582-9219 FAX: 662-8735

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2006
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 2006

*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 the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

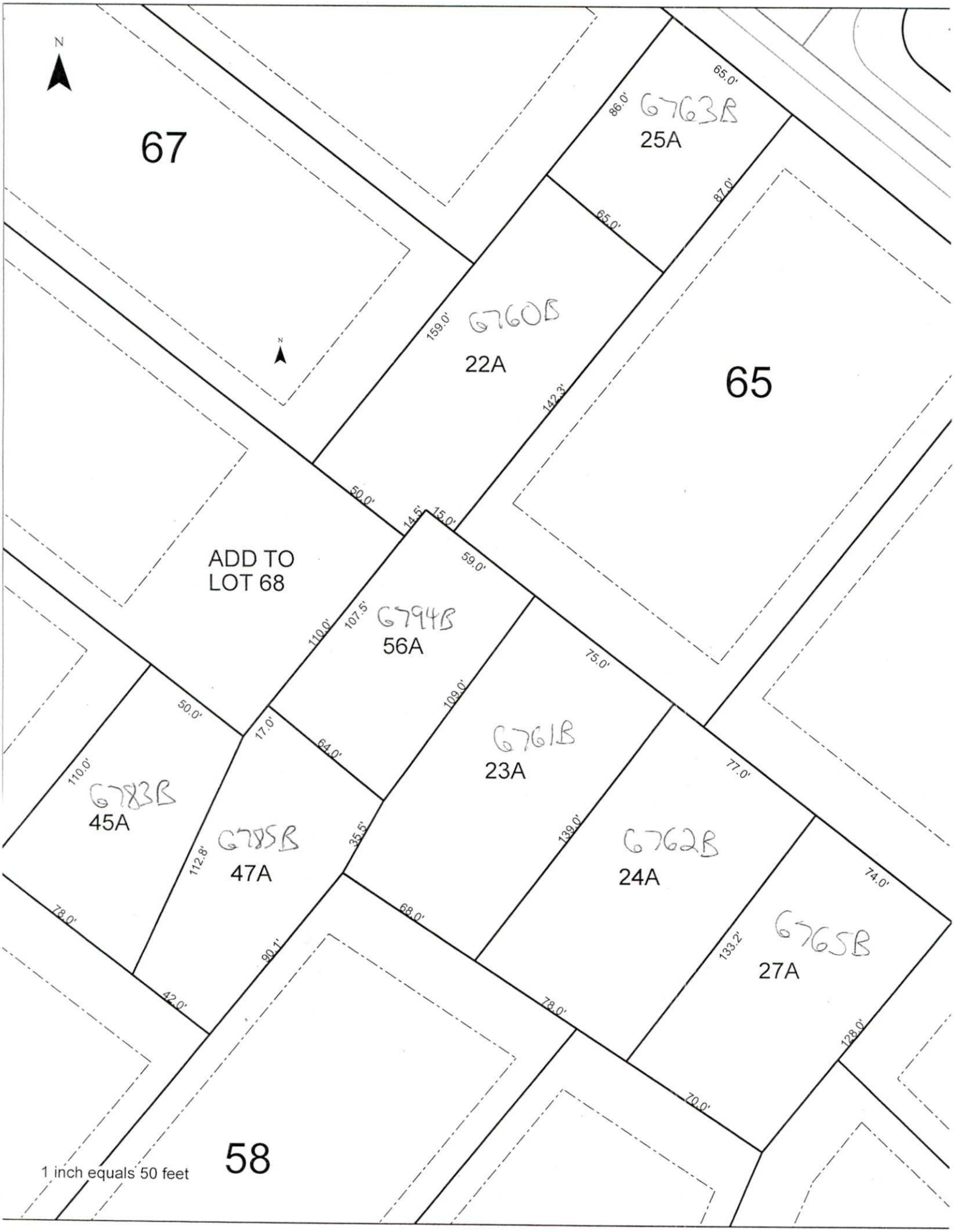
Tony C Jacobs, LSS 9/7/06
Owner's/Agent's Signature Date

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

*A Well 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 the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

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


N
67
6763B
25A
65.0'
86.0'
87.0'
65.0'
6760B
22A
159.0'
142.3'
65
50.0'
14.5'
15.0'
ADD TO
LOT 68
59.0'
107.5'
110.0'
6794B
56A
75.0'
109.0'
6761B
23A
50.0'
110.0'
17.0'
64.0'
6783B
45A
6785B
47A
112.8'
35.5'
77.0'
139.0'
6762B
24A
74.0'
78.0'
90.1'
42.0'
68.0'
133.2'
6765B
27A
78.0'
128.0'
70.0'
58
1 inch equals 50 feet

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	05/22/07	**Amount:**	1,700.00
Receipt #:	50852	**Tendered:**	1,700.00
Check / Auth #:	CHECK 5000	**Returned:**	0.00
Received By:	AIDOOJK		

Account Information

Account #: 200000
Contractor: FASION-SAMPLE ROAD
Attn:
Address: 121 W TRADE STREET 27TH FLR
Address:
City/State/Zip: CHARLOTTE, NC 28202

Item	Description	Permit#	Quantity	Unit Price	Total Price
0702	Optional Site Evaluations LOT 21-25, 27-29, 51-55, 68		1	1,700.00	1,700.00

file # 6785B

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

On-site Wastewater Section

Property ID: PQ 023-201-02
Lot #: 47
File #: 6785B
AppID: 1402
Code: 2

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Faison- Sample Road LLC
Address: 121 W. Trade St., 27th Floor, Charlotte, N. C. 28202-5399
Proposed Facility: Residence Design Flow (.1949): 480gpd
Location of Site: Off Sample Road
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

Applicant: S & ME- Toney Jacobs
Date Evaluated: 12/7/06
Property Size: .63a
Property Recorded:

Profile #	1940 Landscape Position/ Slope%	Horizon Depth (IN)	SOIL MORPHOLOGY 1944 Structure/ Texture	1944 Consistence/ Mineralogy	PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth IN	1956 Saprolite Class	1944 Restrictive Horiz	Profile Class & LTAR
1	LS, 10	0-5	GR/CL	FR/SEXP/SS/SP	>28" TO SOIL WETNESS	28	N/A	NONE	US, IV .1GPD/FT^{2}LPP
		5-28	SBK/C	FI/SEXP/S/P					
2	"	0-5	GR/CL	FR/SEXP/SS/SP	>36" TO SOIL WETNESS	36	"	"	PS, IV .25GPD/FT^2
		5-36	SBK/C	FI/SEXP/S/P					
3	"	0-4	GR/CL	FR/SEXP/SS/SP	>31" TO SOIL WETNESS	31	"	"	US, IV .25GPD/FT^2
		4-31	SBK/C	FI/SEXP/S/P					
OFFSITE AREA INV. 6/13/07 BY WRM									
1	LS, 5	0-6	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV .275GPD/FT^2
		6-48	SBK/ABK/C	FI/SEXP/S/P					
2	"	0-5	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		5-48	SBK/ABK/C	FI/SEXP/S/P					
					OFFSITE LTAR .3GPD/FT^2				
P1	LS, 10	0-5	GR/CL	FR/SEXP	>61" TO SOIL WETNESS	34	PS	"	PS, SAP II .3GPD/FT^2
		5-25	SBK/C	FI/SEXP/S/P					
		25-34	SBK/CL	FR/SEXP/SS/SP					
		34-61	M/L	FR/SEXP/NS/NP					
P2	"	0-3	GR/CL	FR/SEXPSS/SP	>51" TO SOIL WETNESS	25	"	"	"
		3-16	SBK/C	FI/SEXP/S/P					
		16-25	SBK/CL	FR/SEXPSS/SP					
		25-51	M/L	FR/SEXP/NS/NP	LTAR W/PITS .3GPD/FT^2				

Description	Initial System	Repair System
Available Space (.1945)	~~PS~~	~~PS~~
System Type(s)	IVa	IVa
Site LTAR	~~.25GPD/FT^2~~ 0.3	~~.25GPD/FT^2~~ 0.3

Other Factors (.1946):
Site Classification (.1948): ~~UNSUITABLE~~ P.S.
Evaluated By: W. R. Marlin, LSS, 12/8/2006
Others Present:

Sheet: 2 of 2

Landscape Position	Group	Texture	.1956 LTAR
R-Ridge	I	S-Sand	1.2 - 0.8
SS-Shoulder Slope		LS-Loamy Sand	
LS-Linear Slope			
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6
NS-Nose Slope		L-Loam	
HS-Head Slope			
CC-Concave Slope	III	SI-Silt	0.6 - 0.3
CV-Convex Slope		SICL-Silty Clay Loam	
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	

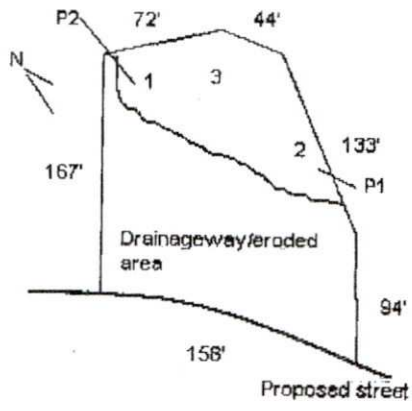
Structure
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

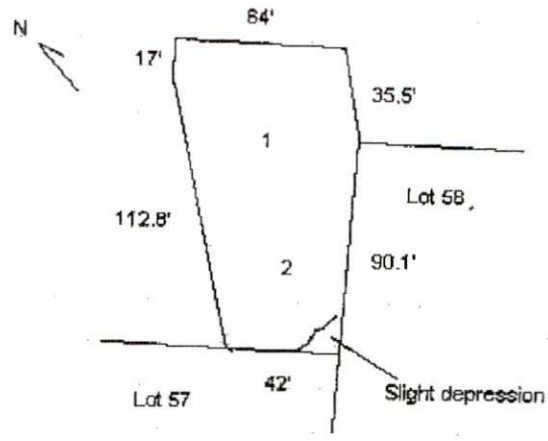
Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet
NS-Non-Sticky
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

Sketch of Soil Evaluation Locations





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

Sheet: 1 of 2
Property ID: PO 023-201-02
Lot #: 47
File #: 6785B
AppID: 1402
Code: 2

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Faison- Sample Road LLC
Applicant: S & ME- Toney Jacobs
Address: 121 W. Trade St., 27th Floor, Charlotte, N. C. 28202-5399
Date Evaluated: 12/7/06
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .63a
Location of Site: Off Sample Road
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	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 10	0-5	GR/CL	FR/SEXP/SS/SP	>28" TO SOIL WETNESS	28	N/A	NONE	US, IV
		5-28	SBK/C	FI/SEXP/S/P					.1GPD/FT^{2}LPP
2	"	0-5	GR/CL	FR/SEXP/SS/SP	>36" TO SOIL WETNESS	36	"	"	PS, IV
		5-36	SBK/C	FI/SEXP/S/P					.25GPD/FT^2
3	"	0-4	GR/CL	FR/SEXP/SS/SP	>31" TO SOIL WETNESS	31	"	"	US, IV
		4-31	SBK/C	FI/SEXP/S/P					.25GPD/FT^2
				OFFSITE AREA INV.	6/13/07 BY WRM				
1	LS, 5	0-6	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
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2	"	0-5	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		5-48	SBK/ABK/C	FI/SEXP/S/P					
					OFFSITE LTAR .3GPD/FT^2				

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

Other Factors (.1946):
Site Classification (.1948): ~~UNSUITABLE~~ P.S.
Evaluated By: W. R. Marlin, LSS, 12/8/2006, WRM
Others Present:

COMMENTS:
100% repair

Landscape Position	Group	Texture	.1955 LTAR
R-Ridge	I	S-Sand	1.2 - 0.8
SS-Shoulder Slope		LS-Loamy Sand	
LS-Linear Slope			
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6
NS-Nose Slope		L-Loam	
HS-Head Slope			
CC-Concave Slope	III	SI-Silt	0.6 - 0.3
CV-Convex Slope		SICL-Silty Clay Loam	
T-Terrace			
FP-Flood Plain		CL-Clay Loam	
		SCL-Sandy Clay Loam	
	IV	SC-Sandy Clay	0.4 - 0.1
		SIC-Silty Clay	
		C-Clay	

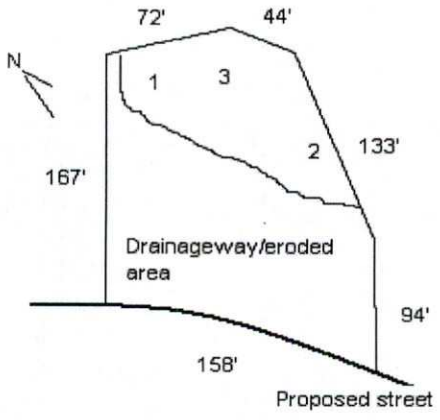
Structure
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CR-Crumb
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SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

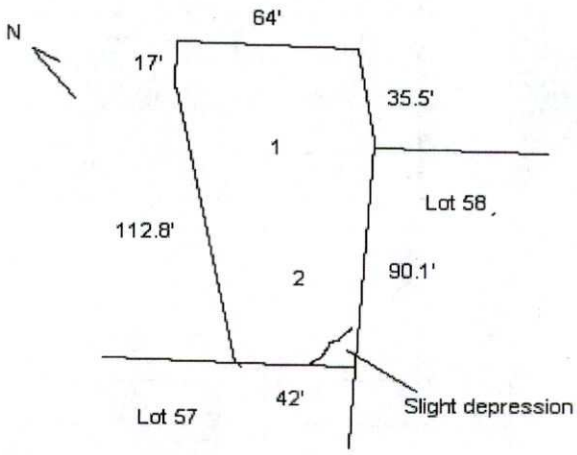
Consistence Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence Wet
NS-Non-Sticky
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

Sketch of Soil Evaluation Locations





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 #: **30001402** GWS File #: **6785B** Tax Parcel #: **023-201-02**

- 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):** 9/17/2012

Type of Installation: Residential - New System Lot Number: 47

Structure Type: HOUSE Size (ft^2): 5000 # Bedrooms: 4 # Occupants: 8

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: PPBPS (pressurized) **System Classification:** IVa

Initial System Specifications:

Design Flow (gpd):	480	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):	801	Total Trench Length (ft):	267
Maximum Trench Depth (in):	30	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distri		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	480	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):	800	Total Trench Length (ft):	267
Maximum Trench Depth (in):	30	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distri		

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: Jeremy Michelone Owner/Legal Agent: Tonya C. Jacobs
Print Name

Signature: Jeremy Michelone, RS Signature: Tonya C. Jacobs

Date Issued: 9/17/2007

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 #: **30001402** GWS File #: **6785B**

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 3 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 septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.

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: Jeremy Michelone

Signature: _____

Date Issued: 9/17/2007

Owner/Legal Agent: _____
Print Name

Signature: _____

S&ME

GWS Septic System Design Review

GWS File #: 6785B Approved Disapproved

Design Review: TCT 9-13-07 ☒ ☐

Field Review: JAM 9/17/07 ☒ ☐

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

Date: August 23, 2007

To: Mr. Jeremy Michelone, R.S.
Mecklenburg County Env. Health Dept.

From: Jacob B. Presley, LSS
Toney C. Jacobs, LSS

RE: Request for an Improvement Permit for Lot 47 off of Sample Road.
MCHD File #6785B

FCD Development , LLC, is requesting an Improvement Permit for the above referenced lot. Mr. W.R. Marlin has evaluated the soils (see attached MCHD soil sheets) and S&ME, Inc. has flagged the system on the lot and repair on an off-site septic area. The septic lines have been located by S&ME and are shown on the attached maps. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot off of Sample Rd.

This lot will utilize an off-site septic area for the repair area. Faison will install pipe from the lot to the septic area easement in the recorded septic supply line easement. The pipe will be 3 inch SCH 40 PVC unless otherwise specified by both the MCHD and the Town of Huntersville. Both the MCHD and Huntersville should sign off on the proposed pipe specifications and routing prior to installation. Both should also be advised of the installation schedule so they can inspect the installation as necessary.

We understand that a building permit cannot be issued until your office issues an Authorization to Construct (ATC). The buyer will apply for the ATC. **No grading shall take place on the lot prior to obtaining the ATC from the MCHD.**

The proposed system is a TYPE IV and will require a contract with a Certified Operator to supply maintenance services for the septic system. Please review the attached system sketch and design specifications for the Improvement Permit. If necessary, the MCHD may add comments to the site plan or specifications. Please call if you have any questions or comments.

Design Specifications for Lot 47 off of Sample Rd.
MCHD File # 6785B

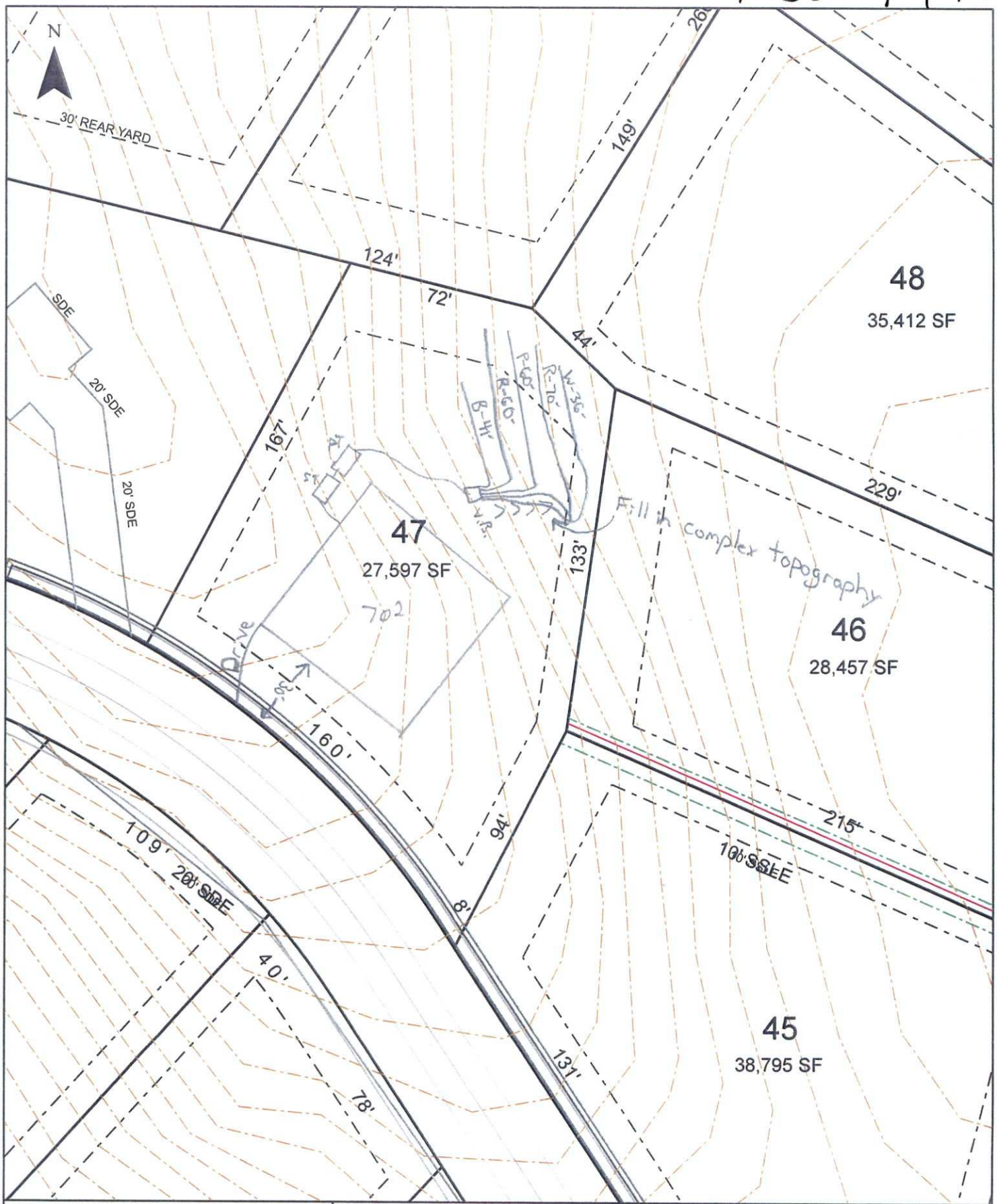
Daily Design Flow:	480 gpd
Number Bedrooms:	4 bdr.
Basement or Crawlspace:	Basement
Septic Tank Size:	1500 gal
Pump Tank Size:	1500 gal
Primary System Loading Rate:	**0.3 gpd/ft^2**
Primary System:	**LP PPBPS**
Number and length of laterals:	1 line @ 41 ft. endfed 2 lines @ 60 ft. endfed 1 line @ 70 ft. endfed 1 line @ 36 ft. endfed
Total ft. of primary system:	267 ft. (267 ft. required)
Number of T&J Panels:	1 line @ 41 ft., 9 panels 2 lines @ 60 ft., 14 panels each (28 total) 1 line @ 36 ft., 8 panels Total of 61 panels
Flow Rate through system:	30.5 gpm – use 5/32 in. holes with 3 ft. head pressure
Pump Requirements:	to be calculated by installer when specific house and pump tank locations are available
Dosing Volume:	approx. 220 gal. – (3.6 gal per panel)* 2.19 doses/day
Depth of effluent pumped per dose:	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check Valve:	yes
Siphon break hole:	yes

Repair System Loading Rate:	0.275 gpd/ft^2
Repair System:	LP PPBPS
Total ft. of repair	310+ ft. (291 ft. required)

Notes: Before placement of cap block, one panel on each line, near the center of the field should be observed filling to make certain that it does not overflow the top chamber into the air chambers. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.

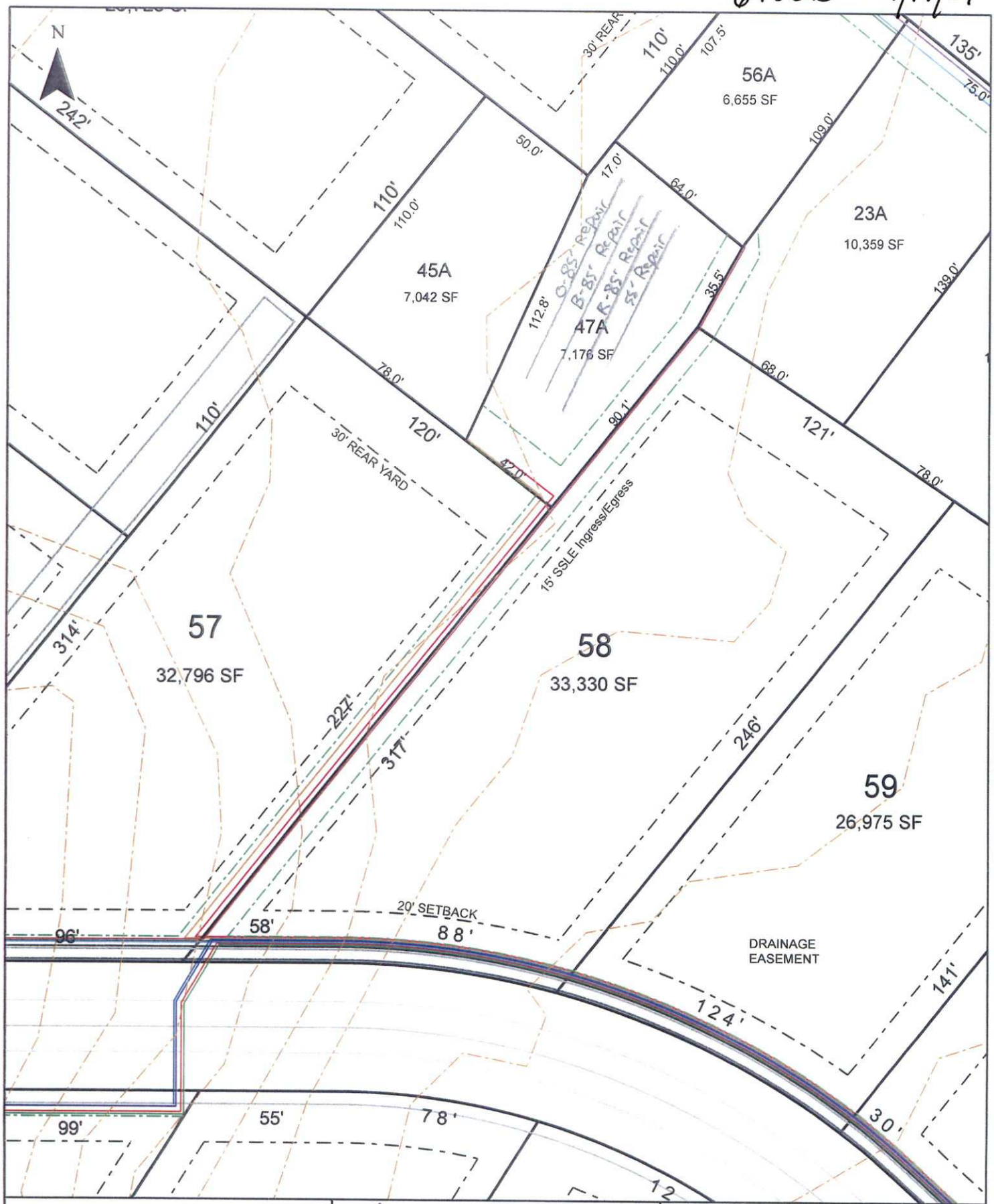
PPBPS Design Worksheet									
								File #:	6785B
								Tax #:	
System Requirements								Address:	Lot 47 Sample Rd.
Design Flow	480	gpd							
LTAR	0.300	gpd/ft.^2						Consultant:	Jacob Presley - S&ME, Inc.
Linear footage	533	ft. (conventional)						Phone:	336-288-7180
Linear footage	267	ft. (50% Reduction)							
								Reviewed By:	TCT ✓
Design Layout								Date:	9-13-07
Laterals	Length (ft)	# Panels	Calculated						
Line # 1	41	9	9.46		T & J Panels				
Line # 2	60	14	13.85		Linear Feet	# Panels			
Line # 3	60	14	13.85		20	5			
Line # 4	70	16	16.15		30	7			
Line # 5	36	8	8.31		40	9			
Line # 6	0	0	0.00		50	11			
Line # 7	0	0	0.00		60	14			
Line # 8	0	0	0.00						
Line # 9	0	0	0.00		70	16			
Totals	**267**	**61**	61.62						
Absorption Area									
Length (ft)	Width (ft)	Area (ft^2)							
267	3	801							
System Pressure Head	3	ft.	Value selected by system designer (must be between 2-5 ft.)						
Orifice Diameter	5/32	in.	Size selected by system designer (1/8 in. minimum)						
Flow Rate per Orifice	0.5	gpm	Determined from orifice flow design table (use table from Flow Rate tab)						
Total System Flow Rate	30.5	gpm	Total number of panels required multiplied by the orifice flow rate						
System Dose Volume	219.60	gal.	Total number of panels required multipled by 3.6 gal./panel						
Doses Per Day	2.19	cycles	Number of dose cycles per day based on daily design flow						
Pump Run Time	7.20	min.	System dose volume divided by the total system flow rate						
Pump Tank Volume / Inch	29	gal./in.	1,000 gal. Pump tank, volume is approximately 21 gallons per inch. 1,500 gal. pump tank, volume is approximately 29 gallons per inch						
Pump Tank Drawdown	7.57	in.	Depth of effluent pumped per dose cycle.						
Comments:									
1. Install system using 3 ft. wide trenches.									
2. Install drainlines on 9 ft. centers, level, and on contour.									
3. System design requires effluent pump for distribution.									
4. 100% Repair area is required.									

6785B 9/17/07



Scale: 1 inch equals 50 feet	S&ME	Faison - Sample Road LLC	FIGURE
Drawn by: JBP		Lot 47	1
Reviewed by: TCJ		Mecklenburg County, NC	
Date: August, 2007	ENVIRONMENTAL SERVICES · ENGINEERING · TESTING	S&ME Project #1588-05-091	

6785B 9/17/07



Scale: 1 inch equals 50 feet	S&ME	Faison - Sample Road LLC	FIGURE
Drawn by: JBP		Lot 47 - 47A Offsite Repair Area	2
Reviewed by: TCJ		Mecklenburg County, NC	
Date: August, 2007	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S&ME Project #1588-05-091	