8922B

Supervisor/Administrative Professional Checklist

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

New Septic Fees Paid:

IP ($250.00) lwa 4/14/14 Initials/Date

CA ($200.00) lwa 5/27/14 Initials/Date

OP ($200.00) lwa 5/27/14 Initials/Date

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

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

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

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

Floor plans need to be submitted and reviewed before CA can be issued. ☑ Reviewed ☑ 5/6/14 SAM

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

Septic file completed. ☑ _____ Well file completed. ☐ _____

Send permit for signature. ☑ Signature received. ☑ 5/27/14

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

Certified operator contract is on file. ☐ _____

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 8922B WASPS App #: 6761

Primary ES assigned to project: Brad Hattman

Secondary ES assigned to project: Jacob Pressley

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: 5			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.275	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: JAM Date performed: PSW 4/24/15

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 #: 8922B Permit #: 30006761 Tax Parcel #: 197-221-29

Property Owner: Peter and Irina Gusev

Job Location Address: 8341 Rolling Fields Rd.

City: Charlotte State: NC Zip Code: 28227

Operation Permit Issuance Date: _____ Contractor Name: Steven's Septic

Permitted Design Flow: 480 GPD 338-1500 1-6-15 Liquid Capacity of Dosing Tank: NA gallons

Liquid Capacity of Septic Tank: 1500 gallons STE Effluent Pump Model: NA

Drainfield Installation ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: ~~1080~~ 1436 feet 1080'

# of Lines: 64 @ 90 feet

Depth of Media: 12 inches (Type) Arc 36

Depth of Cover: 12 inches

Distribution Device: End Cap to End Cap

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: 15 feet

Distance from Property Line: 18 feet

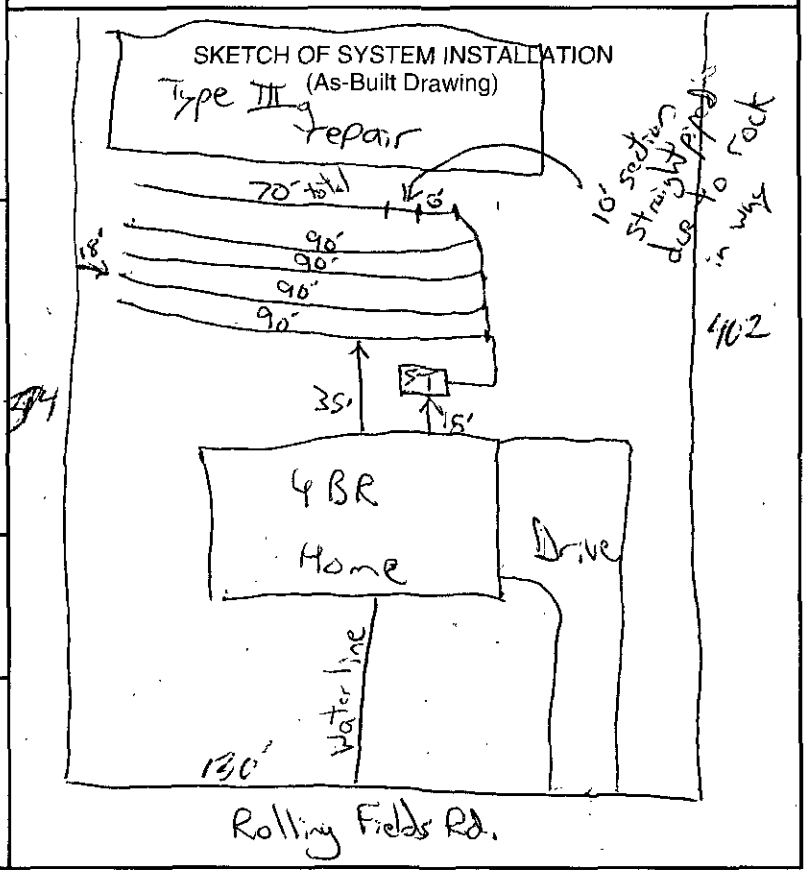
Distance from Water Supply Source: >10 feet

Inspection Dates

Tank(s) Inspected: 4-23-15

Excavation Inspected: 4-23-15

Pump & Controls Inspected: NA

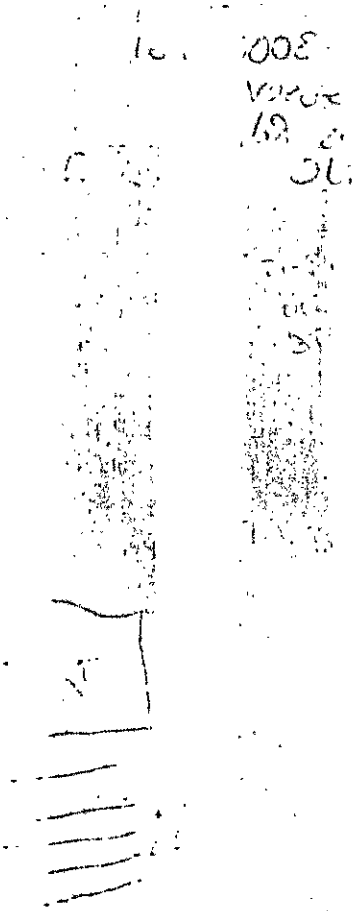


The undersigned has inspected the Septic Tank System described above, and certifies it has been ☐ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" 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: IIIg Arc 36, 6, NA, NA

DENR Authorized Agent: Jacob Presley Signature: _____



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
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NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 8922B Permit #: 30006761 Tax Parcel #: 197-221-29

Property Owner: Peter and Irina Gusev

Job Location Address: 8341 Rolling Fields Rd.

City: Charlotte State: NC Zip Code: 28227

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: II/g

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

Subsurface system operator required: Yes ☐ No ☒

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

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

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

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

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

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

V. Other:

DENR Authorized Agent: Jacob Presley Date: 4-23-15

Signature:

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

Septic System Pre-Construction Meeting Checklist

File # 69223 App # 6761 Tax Parcel # 197-221-29

Property Owner: Peter Gusev

Job Location Address: 8341 Rolling Fields Rd

City: Mint Hill State: NC Zip Code: 28227

1. Does System design match facility, flow & wastewater characteristics?

   ☑ YES ☐ NO

   Comments: _____

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☑ YES ☐ NO

   Comments: _____

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☑ YES ☐ NO

   Comments: _____

* If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☑ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Bradley W. Hallman — 4/22/15

Authorized Agent — Date

Stevens Septic

Others Present

8922B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App #6761

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

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

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

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 19722129
STREET ADDRESS: 8341 Rolling Fields Road
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: Plantation Falls Estates
LOT #: 14 LOT SIZE (acres): 1.16
TOWNSHIP:
◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ◉ MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 3,443
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 3
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

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

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

6. **WATER SUPPLY:** ○ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER City Water

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

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

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

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

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

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

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** 3-28-2011 ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** NOV 2014 ☐ N/A

12. **PROPERTY OWNER:**

NAME: Peter Gusev
ADDRESS: 10208 Overland Ct.
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: (704) 363-5408
MOBILE PHONE: (704) 363-5408
FAX: (704) 573-3119
E-MAIL: gusev@bellsouth.net

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

NAME: Irina Guseva
ADDRESS: 10208 Overland Ct
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: (704) 299-6933
MOBILE PHONE: (704) 299-6933
FAX: (704) 573-3119
E-MAIL: gusev@bellsouth.net

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

Revised on: 12/15/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

I. G. (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

I.G. (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

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

Property Owner's or Owner's Legal Representative Signature

4/4/13
Date

OFFICE USE ONLY

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

SEPTIC APPLICATION FEE RECEIVED: $ 250 DATE FEE RECEIVED: 4/4/13

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

APPLICATION PROCESSED BY: lws

GWS FILE NUMBER ASSIGNED: 89223

APPLICATION ID NUMBER ASSIGNED: 6761

COMMENTS:

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

Revised on: 12/15/10

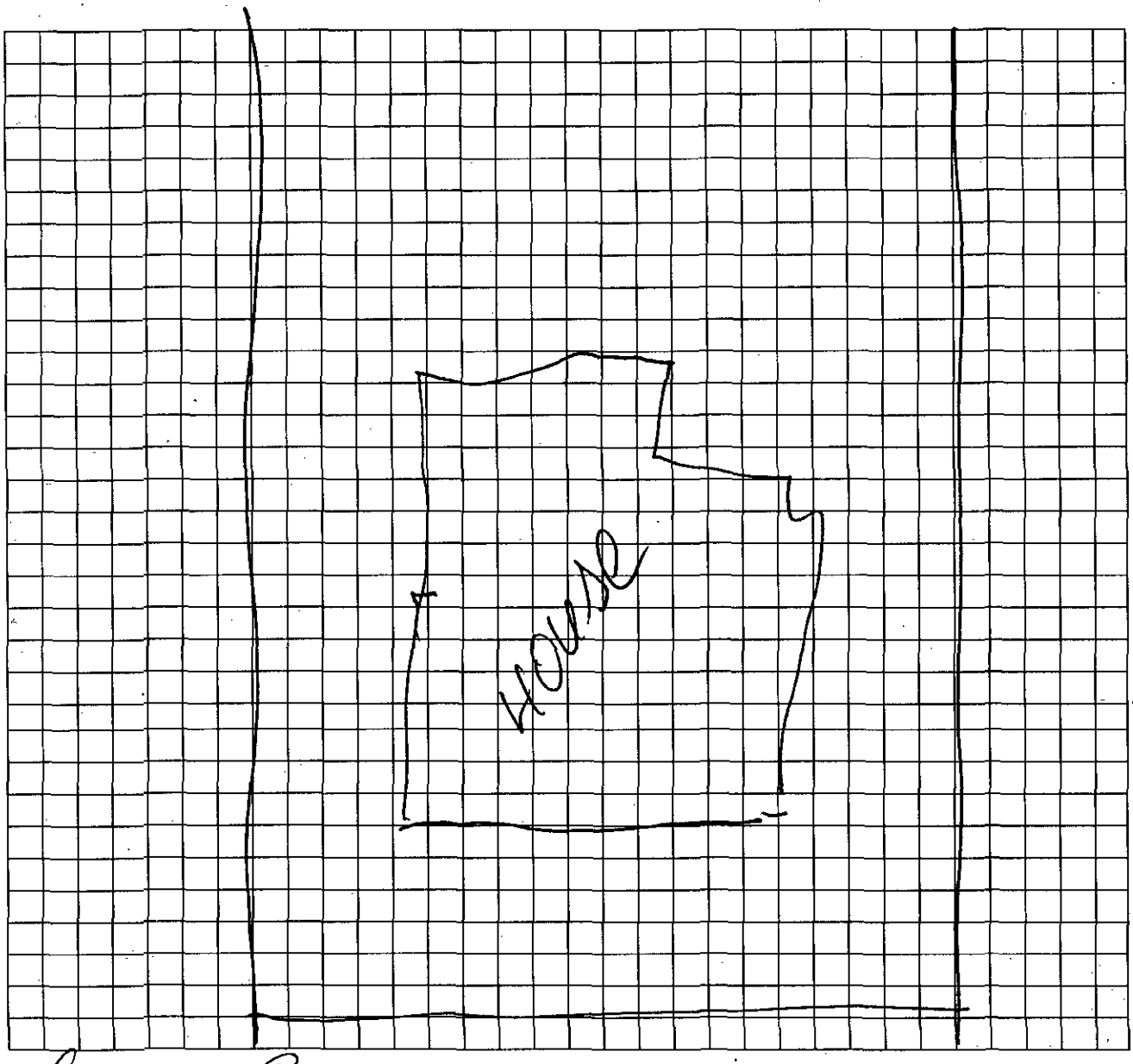
File #: _____

PROPOSED PLOT PLAN

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

Street Address: 8341 Rolling Fields Road Tax Parcel #: 19722129

Subdivision Name: Plantation Falls Estates Lot #: 14



Property Owner's or Owner's Legal Representative Signature

4/4/14
Date

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

Revised on: 12/15/10

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

Property ID: 197-221-29
Lot #: 14
File #: 8922B
AppID: 6761

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Peter Guseva
Applicant: Irina Guseva
Address: 10208 Overland Ct., Mint Hill, NC 28227
Date Evaluated: 4/15/2014
Proposed Facility: 4 BR Residence
Design Flow (.1949): 480 GPD
Property Size: 1.16 ac
Location of Site: 8341 Rolling Fields Rd., Mint Hill, NC 28227
Property Recorded: 3/28/2011
Water Supply: [X] Public [X] Individual [X] Irrigation 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	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS %8	0 - 6 6 - 18 18 - 51	gr SCL wfsbk CL mfsbk C	FR SEXP FR SEXP FI SEXP	>51"	51	NA	NA	gravelly 18 - 51" yellow brown mottles from 18 - 51"	**PS IV** **0.275**	**36"**
Boring #2	LS 8%	0 - 12 12 - 51	wfsbk SCL mmsbk C	FR SEXP FI SEXP	>51"	51	NA	NA		**PS IV** **0.275**	**36"**
Boring #3	LS 9%	0 - 3 3 - 15 15 - 30 30 - 46	gr SCL wfsbk CL mfsbk C wmsbk C	FR SEXP FR SEXP FI SEXP FI SEXP	2 chroma @ 43"	46	NA	NA	gravelly 30 - 46" lithochromic mottles from 30 - 46"	**PS IV** **0.275**	**28"**
Boring #4	LS 9%	0 - 12 12 - 39 39	wfsbk CL mfsbk C rock	FR SEXP FI SEXP	>39"				gravelly 18 - 39"	**PS IV** **0.275**	**24"**
Boring #5	LS 8%	0 - 10 10 - 51	wfsbk CL mfsbk C	FR SEXP FI SEXP	>51"				saprolite inclusions 38 - 50"	**PS IV** **0.3**	**36"**

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	0.275	0.275

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

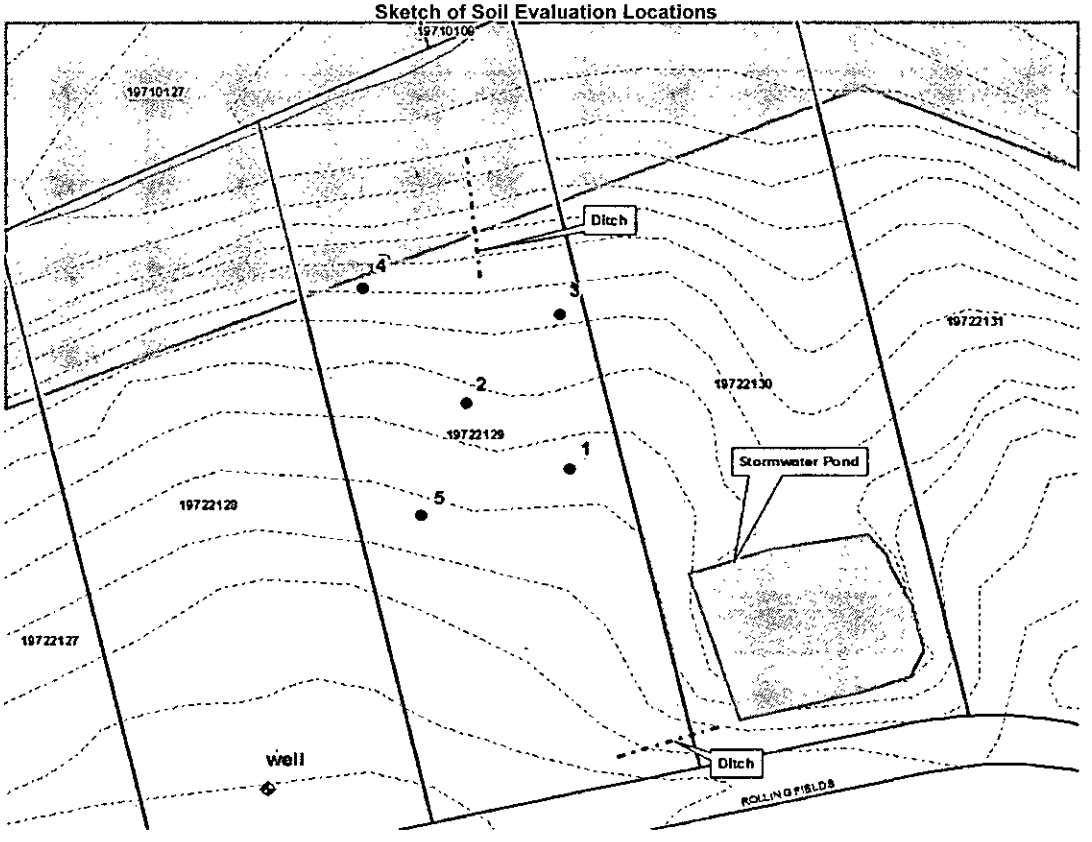
COMMENTS:

Sheet: 2 of 2
File #: 8922B
AppID: 6761

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

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



FEE: 200.00
DATE:5/27/2014

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 8922B

PERMIT NUMBER: 30006761

PARCEL NUMBER: 19722129

JOB LOCATION INFORMATION

ADDRESS: 8341 ROLLING FIELDS RD

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: Peter Gusev

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 4/28/2014

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30006761, 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:** 4/28/2019

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 #: **30006761** GWS File #: **8922B** Tax Parcel #: **197-221-29**

- 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):** 4/28/2019

Type of Installation: Residential - New System Lot Number: 14

Structure Type: HOUSE Size (ft^2): 3443 # Bedrooms: 4 # Occupants: 3

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Approved **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1309	Total Trench Length (ft):	436
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Distribution Box		

III. Repair System Type: Approved **System Classification:** IIIg

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1309	Total Trench Length (ft):	436
Maximum Trench Depth (in):	24	Depth of Media (in):	12	Distribution Device:	Distribution Box		

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: Brad Hallman Owner/Legal Agent: Irina Gayeva
Print Name

Signature: Signature:

Date Issued: 4/28/2014

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 #: **30006761** GWS File #: **8922B**

IV. Permit Conditions/Comments:

- 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:

- 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: Brad Hallman

Signature:

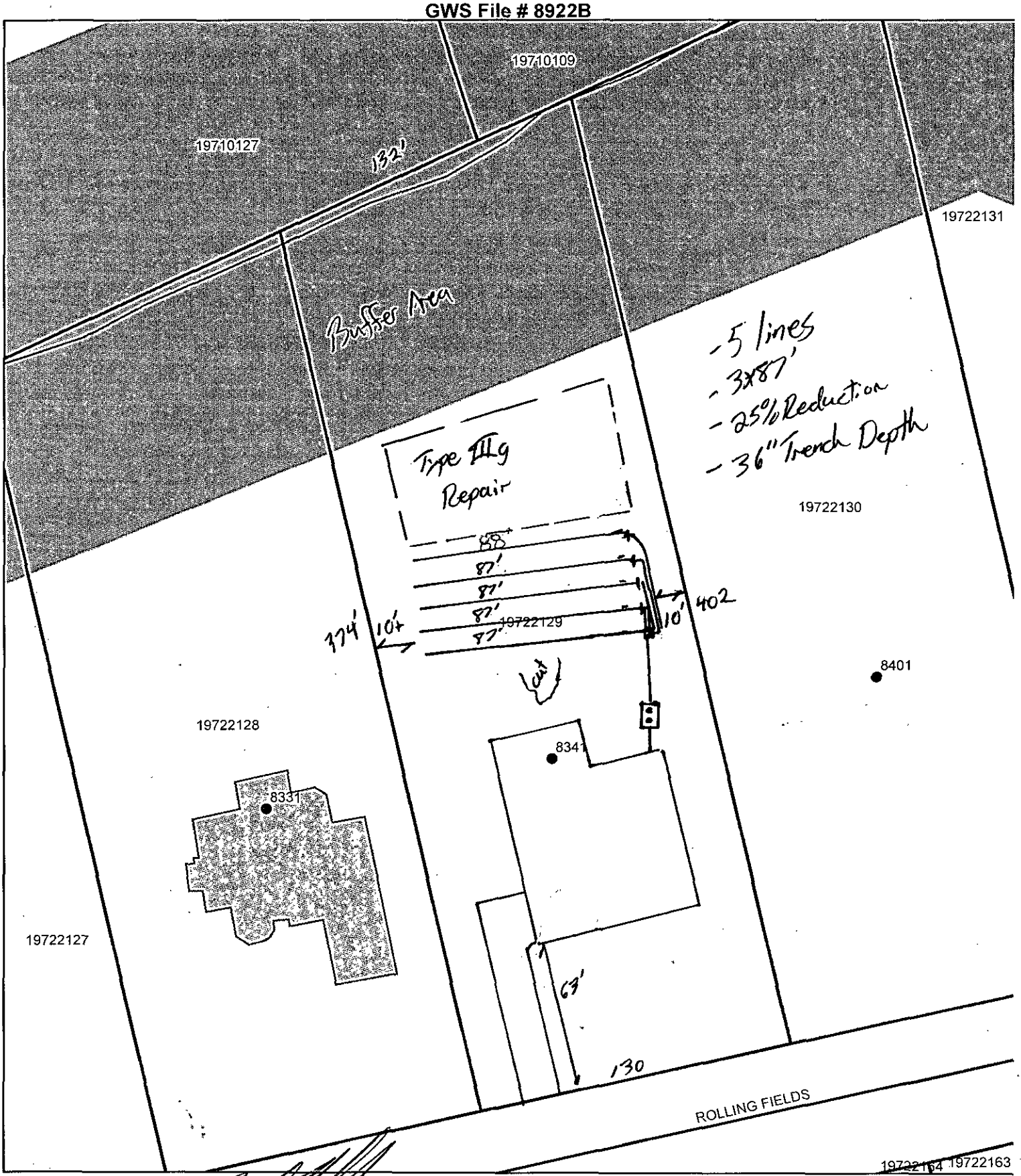
Date Issued: 4/28/2014

Owner/Legal Agent: Irina Gerber
Print Name

Signature:

Page 2 of 2

On-site Wastewater Improvement Permit Diagram
PARCEL #: 197-221-29
WAPSPS APPLICATION #: 30006761
GWS File # 8922B



Authorized Agent: Bradley W. Hallman

Owner/Legal Agent: Irina Gelsevich

0 12.525 50 75 Feet

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

Sheet: 1 of 2
Property ID: 197-221-29
Lot #: 14
File #: 8922B
AppID: 6761

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Peter Guseva
Address: 10208 Overland Ct., Mint Hill, NC 28227
Proposed Facility: 4 BR Residence
Design Flow (.1949): 480 GPD
Location of Site: 8341 Rolling Fields Rd., Mint Hill, NC 28227

Applicant: Irina Guseva
Date Evaluated: 4/15/2014
Property Size: 1.16 ac
Property Recorded: 3/28/2011

Water Supply:	[X] Public	[X] Individual	[X] Irrigation 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.	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS %8	0 - 6	gr SCL	FR SEXP	>51"	51	NA	NA	gravelly 18 - 51" yellow brown mottles from 18 - 51"	PS IV 0.275	36"
		6 - 18	wfsbk CL	FR SEXP							
		18 - 51	mfsbk C	FI SEXP							
Boring #2	LS 8%	0 - 12	wfsbk SCL	FR SEXP	>51"	51	NA	NA		PS IV 0.275	36"
		12 - 51	mmsbk C	FI SEXP							
Boring #3	LS 9%	0 - 3	gr SCL	FR SEXP	2 chroma @ 43"	46	NA	NA	gravelly 30 - 46" lithochromic mottles from 30 - 46"	PS IV 0.275	28"
		3 - 15	wfsbk CL	FR SEXP							
		15 - 30	mfsbk C	FI SEXP							
		30 - 46	wmsbk C	FI SEXP							
Boring #4	LS 9%	0 - 12	wfsbk CL	FR SEXP	>39"				gravelly 18 - 39"	PS IV 0.275	24"
		12 - 39	mfsbk C	FI SEXP							
		39	rock								
Boring #5	LS 8%	0 - 10	wfsbk CL	FR SEXP	>51"				saprolite inclusions 38 - 50"	PS IV 0.3	36"
		10 - 51	mfsbk C	FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIg	IIIg
Site LTAR (gpd/sq ft)	0.275	0.275

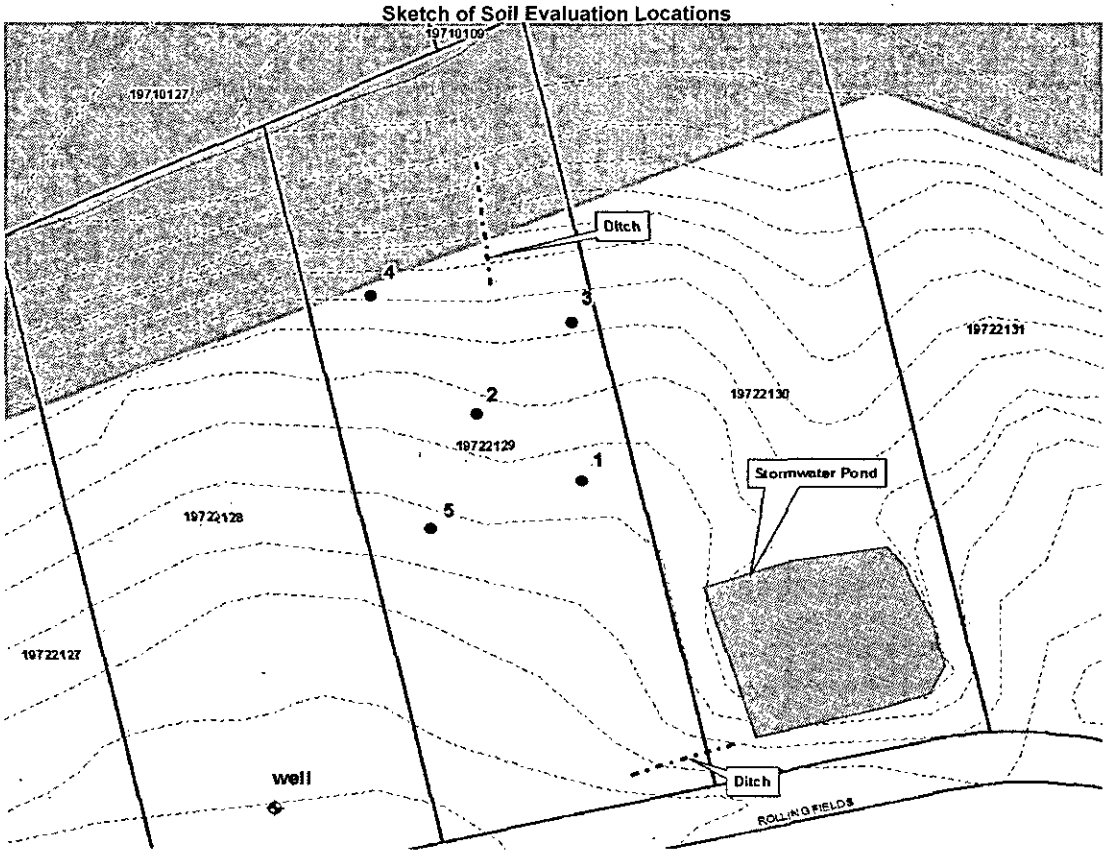
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Bradley W Hallman
Others Present:

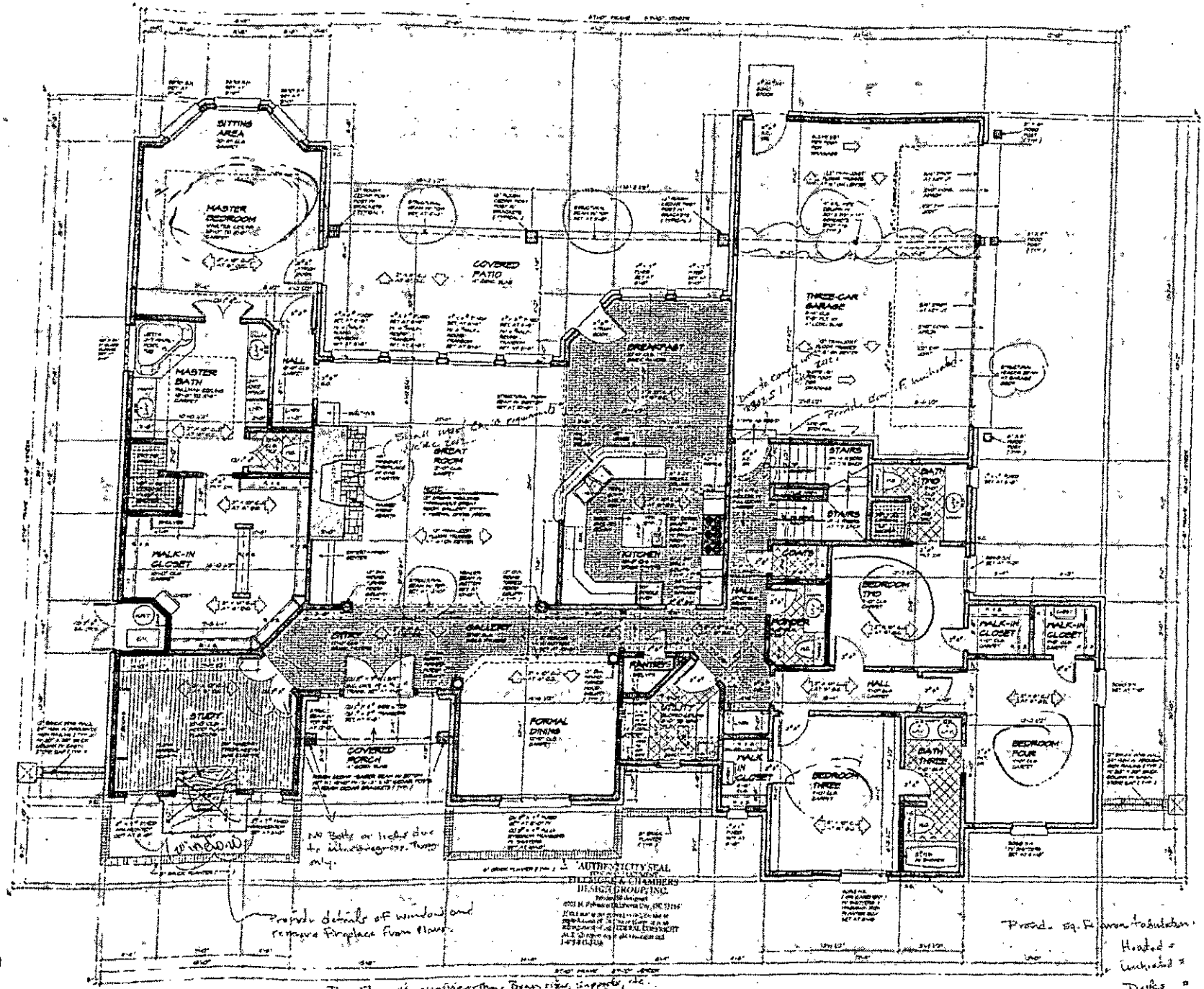
COMMENTS:

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
		SiL-Silt Loam		m-moderate
				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





AUTHENTICITY SEAL
FITZGERALD & CHAMBERS DESIGN GROUP, INC.

LOWER LEVEL FLOOR PLAN

PILLOW DESIGN LOOP

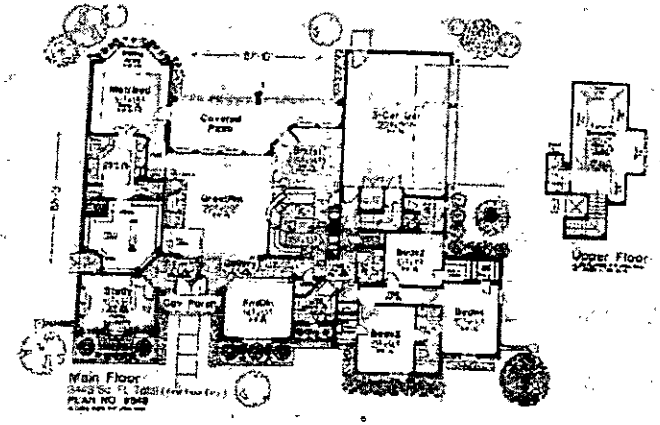
Existing Deck
Existing Deck
Existing Deck

We will sell it in Revere. 781-289-6933 Nina Cox



9546

AUTHENTICITY SEAL
FILLMORE & CHAMBERS
DESIGN GROUP, INC.



DESIGN LOADS:
Floor: 40 psf Live load
10 psf dead load
Roof: 30 psf Live load
10 psf dead load
Soil Pressure 2000 p.s.f.
Note: Check with local building officials for snow-pg. load and any presumptions. Check with local building department for wind, seismic, frost or other loading conditions.
Drainage: Lot shall be provided with adequate drainage and shall be graded so as to drop all surface away from foundation walls.

CONCRETE:
All concrete slabs on grade shall be of compressive strength of 28 days of not less than 3,000 pounds per square inch. Slab shall be on 6" sand or gravel fill with mesh. Int 6x6/W1.4xW1.4. Thicken slab where shown or where all loads bearing walls with 24" steel rebars. Provide a 3/4" expansion joint at all exterior walls.

FOUNDATIONS:
All exterior walls, bearing walls, columns and piers shall be supported by continuous solid masonry or concrete footings. Piers shall be of sufficient design to support safely the loads imposed as determined from the character of the soil and shall project evenly below the frost line. Minimum sizes shall be as per the local codes. Foundation walls shall be constructed of poured concrete or grade "N", type 1 hollow load bearing concrete masonry units. Horizontal reinforcing shall be one #4 rod continuous every other block course. Vertical reinforcing shall be with #5 rod on 48" o.c. and at each corner and both sides of openings.

Piers shall be provided around foundation on low and ledge grade. The top of open joints of each pier shall be provided by wipper of building paper and the piers shall be placed on 3" of sand and gravel.

Provide moisture protection as required by HUD minimum property standards.

FRAMING: 2012 IRC & 8318
All framing lumber shall be Douglas Fir construction grade (Hem-fir), Southern, and floor joists shall have a bending stress of 1,200 p.s.i.
Load bearing dimension lumber for studs, plates, and headers shall conform to applicable standards of grading rules. All studs shall be stud grade or better. Double joists under all parallel partitions. Double 2x12 headers with 1/2" plywood between on all door and window openings.
1 1/2 span bridging or as all floor joists.
Floor construction: 3/4 plywood PSB exterior glue under 5/8" plywood underlayment with building paper between.

FRAMING DETAILS:
Rafters shall be nailed to ceiling joists to form a continuous tie between exterior walls where joists are parallel to the rafters. Where not parallel, rafters shall be tied with a collar tie, located as near the plate as practical. Rafter ties shall be installed on every third or fourth pair of rafters. Rafters shall be fastened at ridge board or to each other with gusset plates as a tie. Ridge board shall be at least 1-inch nominal thickness and not less in depth than the cut of the rafter. At all valleys and hips there shall be a valley or hip rafter not less than 2-inch thickness and not less in depth than the cut end of the rafter. Hip valley rafters shall be supported at the ridge by a brace to a bearing partition. Rafters and ceiling joists shall be gusseted with natural support at points of bearing to prevent spreading.

All exterior walls and ceilings to be covered with gypsum wallboard or plywood with manufacturers recommendations.

"Micro Lam" beams as shown are by Trus Joist Corp.

MASONRY FIREPLACES:
Fireplaces to be lined with firebrick, a metal damper control are to be supplied, a minimum of 12" x 16" clay flue tile to be used in the chimney.

MISCELLANEOUS:
R-13 insulation batt insulation required in all exterior walls of house and R-30 distressed batt insulation at all floors or ceilings exposed to the outside. Rigid insulation at all masonry foundation walls.
Use insulating double glazing at all exterior glass areas.

Optional Extra design.

Verify Design for local region. Engineering may vary.

PLANS
APR 04 2014
RECEIVED
3131/8

Fireplaces to comply with Chapter 10, Note 2012.

Plans Require Engineer design.

Permit applicant appears to have basement or heated sq. ft. Provide energy compliance details and all framing and finish details

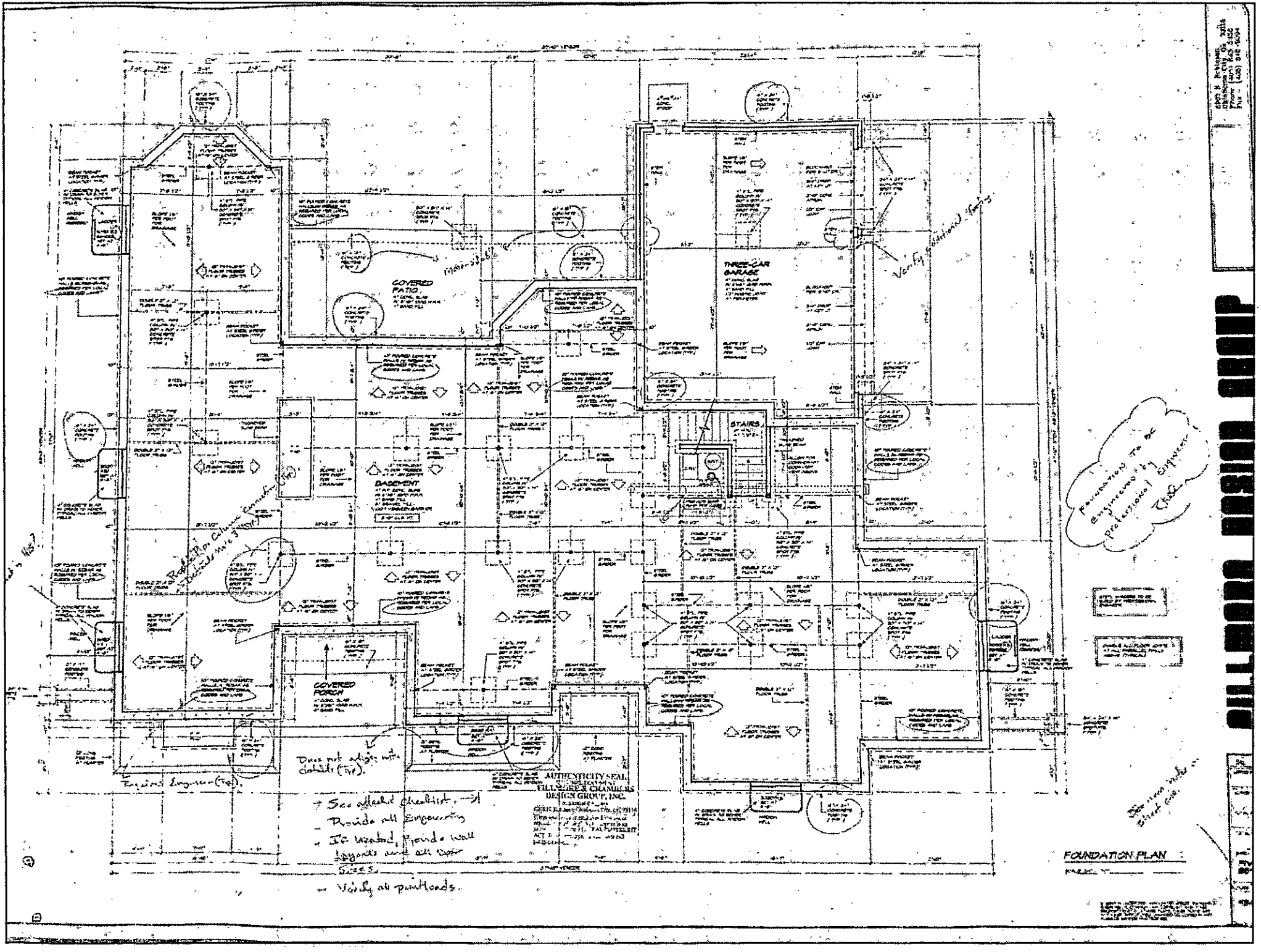
RED LINES SHALL BE RETURNED WITH RE-SUBMITTAL

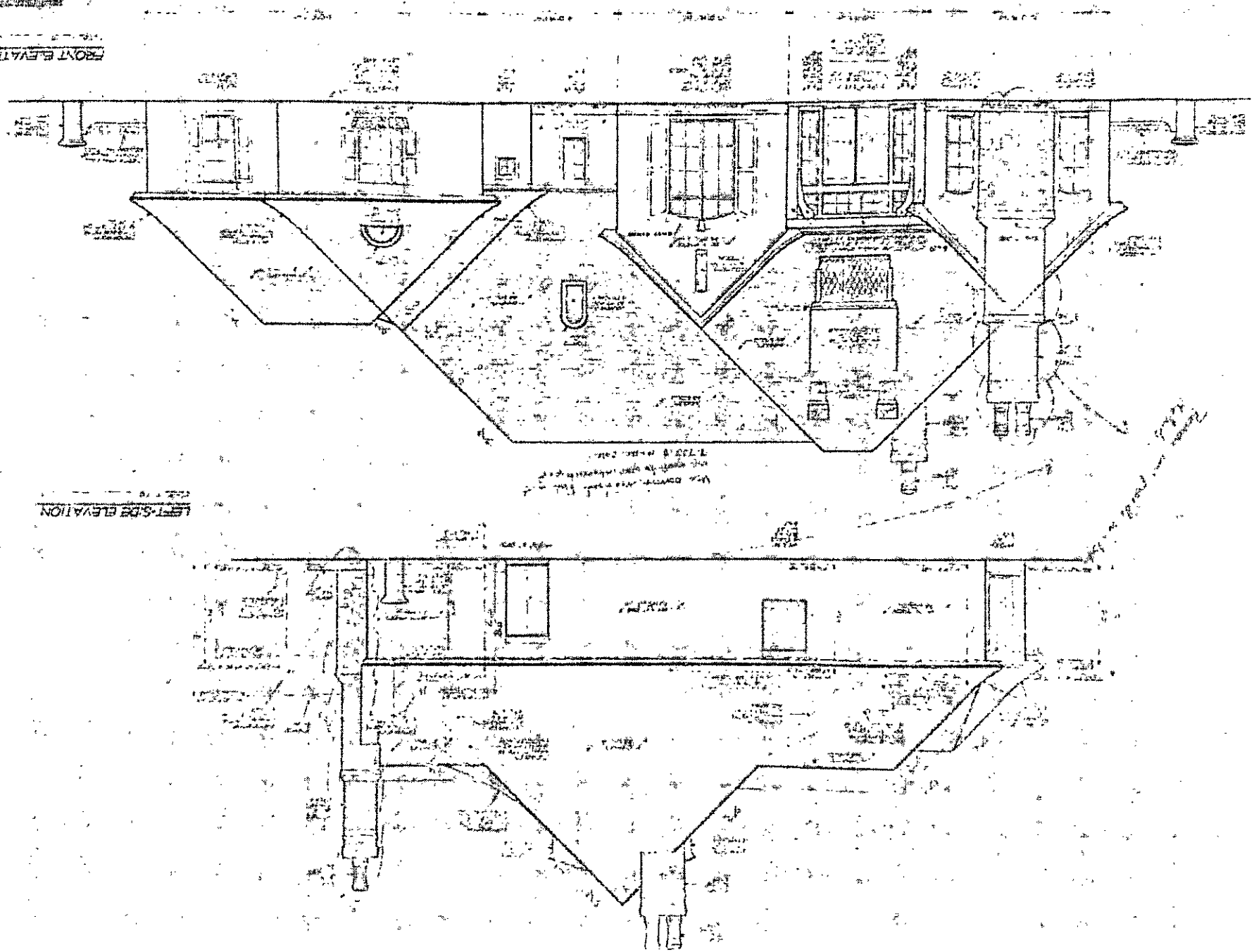
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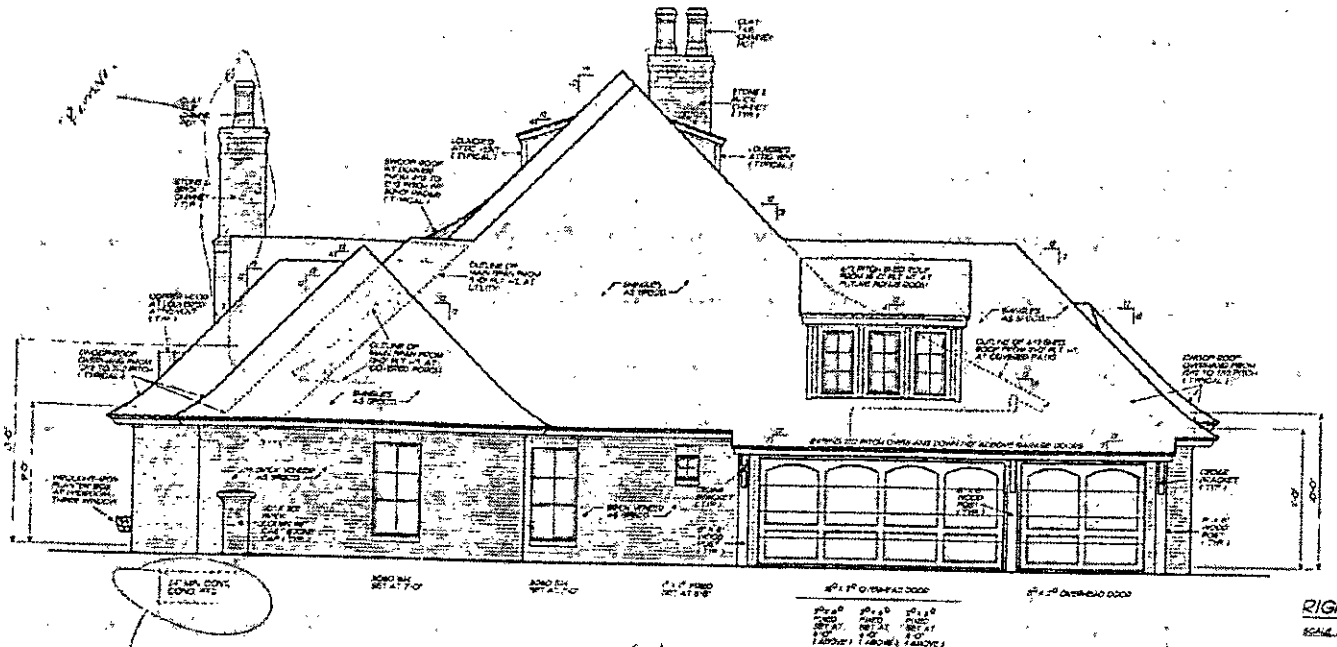
FILLMORE & CHAMBERS DESIGN GROUP

Cover Sheet

95-E


COVERED PATIO
THREE-CAR GARAGE
STAIRS
BASEMENT
COVERED PORCH
Verify elevations
Foundations to be engineered by professional engineer
Does not align with details (Typ).
Required Engineering (Typ).
+ See attached checklist. →
- Provide all Engineering
- If needed, provide wall layouts and all loads
- Verify all pinwheels.
AUTHENTICITY SEAL
FOUNDATION PLAN


FRONT ELEVATION
LEFT-SIDE ELEVATION

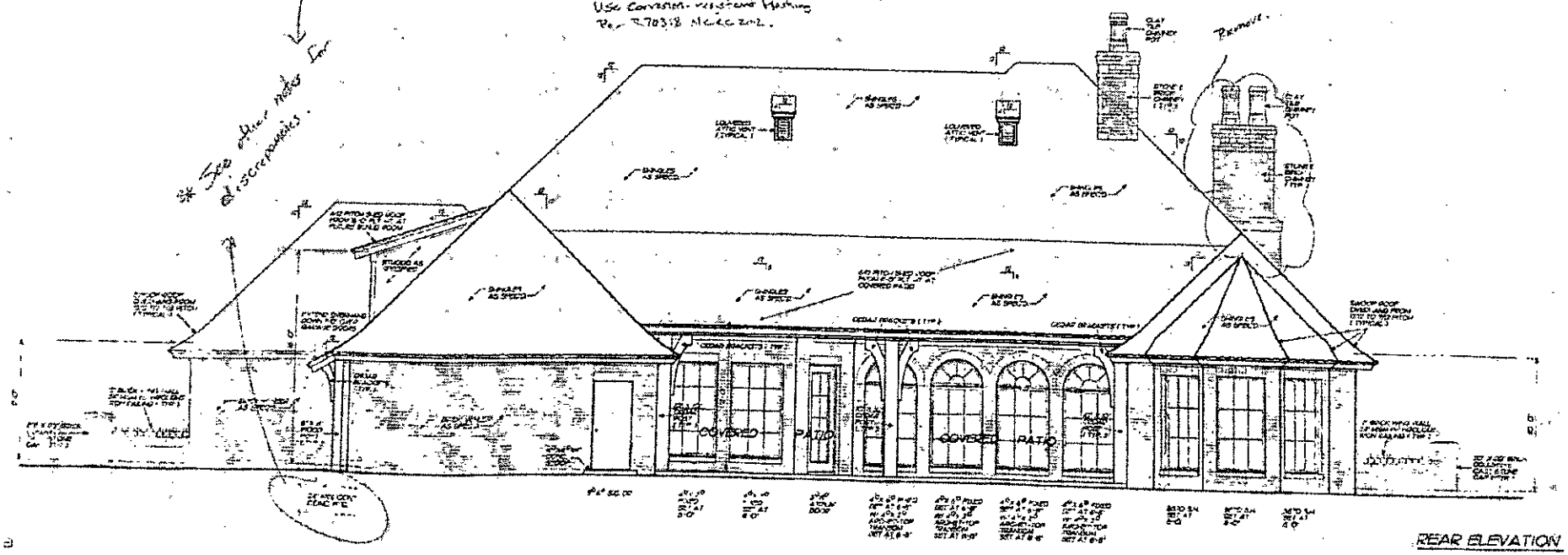


RIGHT-SIDE ELEVATION

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

Use Corrosion-resistant flashing
Per R703.8 NCRC 2012.

* See other notes for discrepancies.



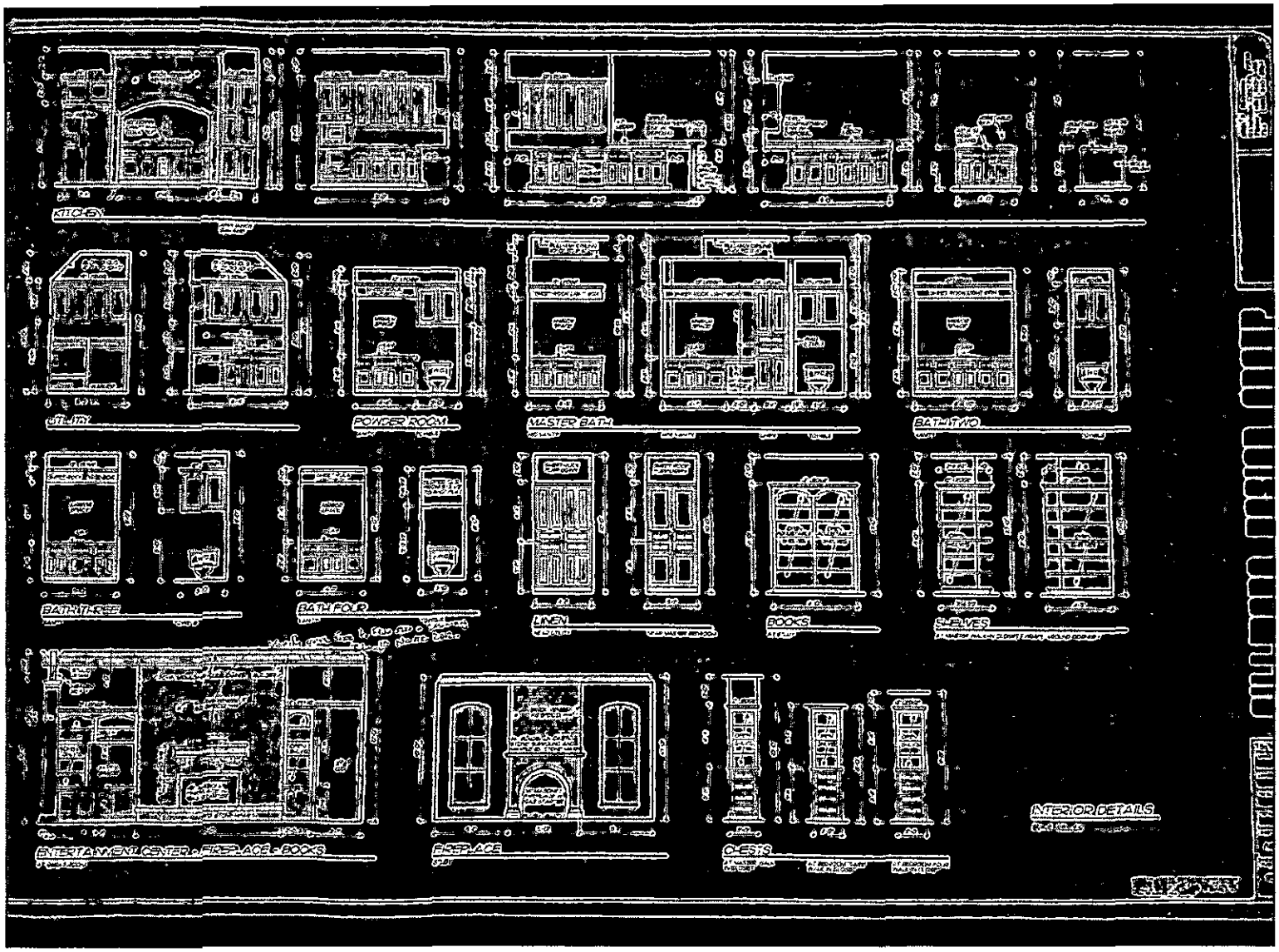
REAR ELEVATION

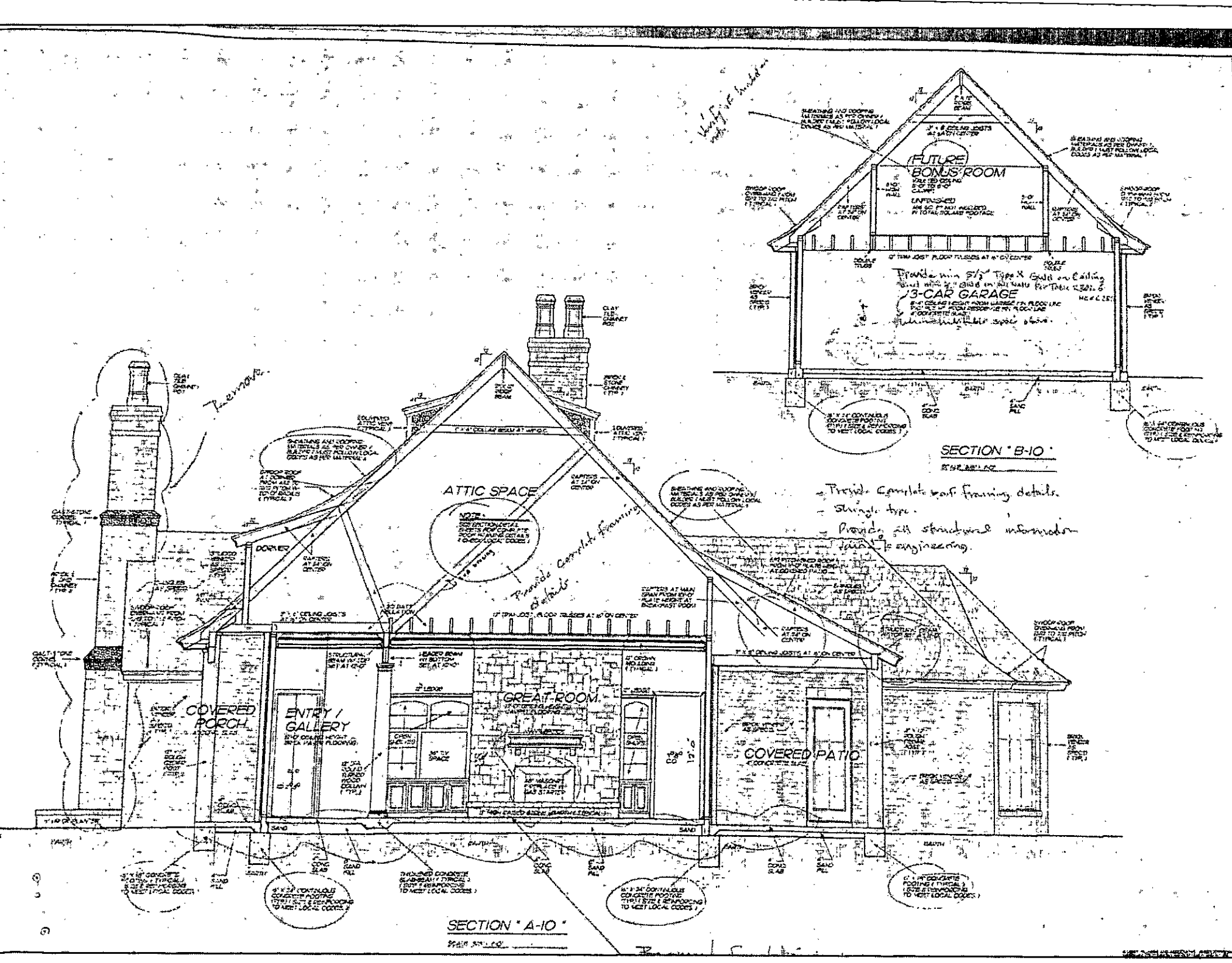
SCALE: 1/4" = 1'-0"

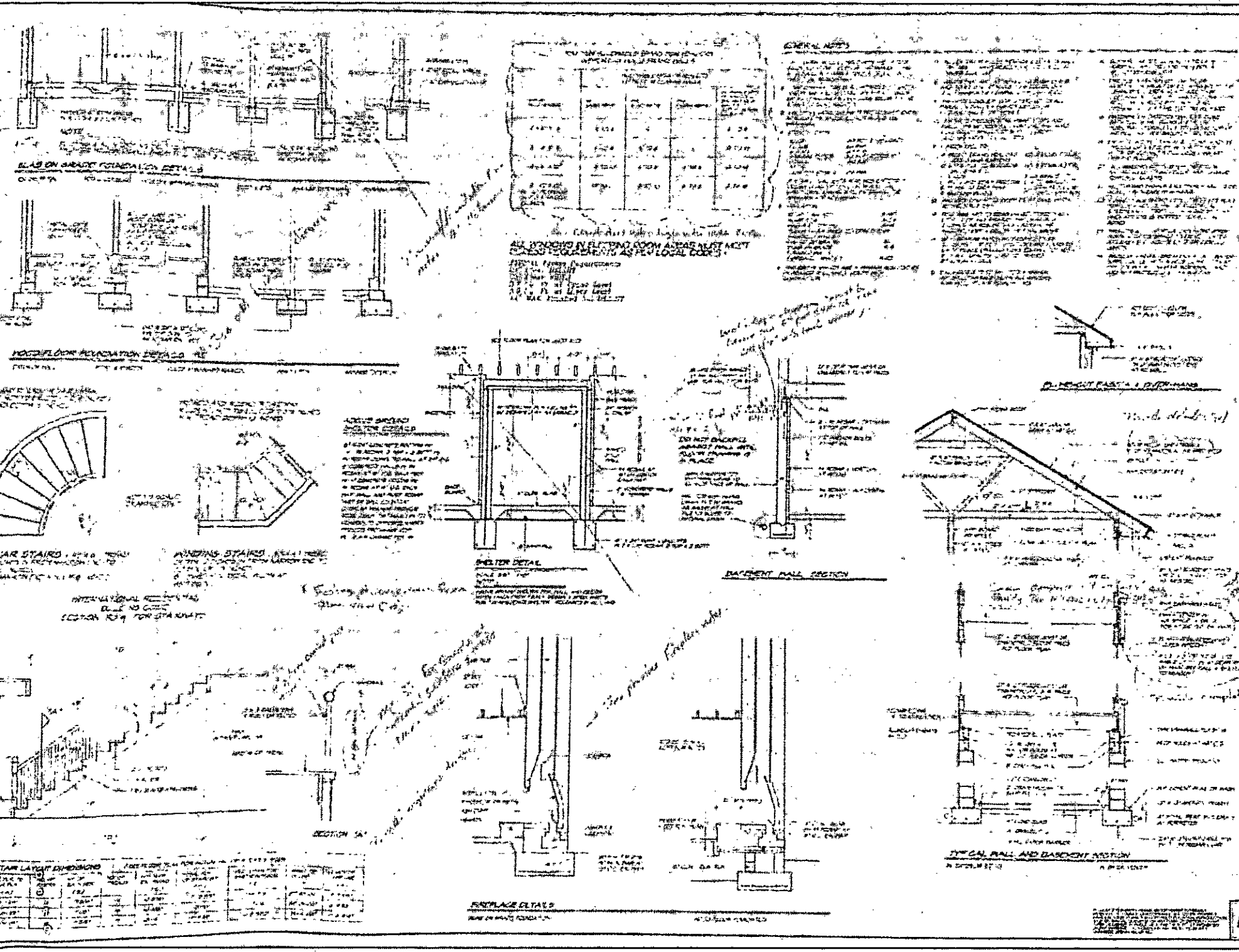
PILLMAN HOUSE PLANS

ROOF PLAN

FILLMORE DESIGN GROUP


KITCHEN
POWDER ROOM
MASTER BATH
BATH TWO
LINEN
BOOKS
SHELVES
BATH FOUR
INTERIOR DETAILS
FIREPLACE
CHESTS


(FUTURE)
BONUS ROOM
3-CAR GARAGE
SECTION "B-10"
ATTIC SPACE
Provide Complete Framing details
COVERED PORCH
ENTRY / GALLERY
GREAT ROOM
COVERED PATIO
SECTION "A-10"
- Provide Complete roof framing details.
- Shingle type.
- Provide all structural information by engineering.



DETAILS

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	05/27/14	**Amount:**	200.00
Receipt #:	89589	**Tendered:**	200.00
Check / Auth #:	CHECK 5310	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: GUSEV PETER AND IRINA
Attn:
Address: 10208 OVERLAND CT
Address:
City/State/Zip: MINT HILL, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr 8341 ROLLING HLLS RD		1	200.00	200.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
200.00	150.00	565.00	909.65		

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	05/27/14	**Amount:**	200.00
Receipt #:	89588	**Tendered:**	200.00
Check / Auth #:	CHECK 5310	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: GUSEX PETER AND IRINA
Attn:
Address: 10208 OVERLAND CT
Address:
City/State/Zip: MINT HILL, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 8341 ROLLING FIELDS RD		1	200.00	200.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
[illegible]	200.00	535.00	309.65		

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	04/04/14	**Amount:**	250.00
Receipt #:	88986	**Tendered:**	250.00
Check / Auth #:	CHECK 5325	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: GUSEV PETER AND ITINA
Attn:
Address: 10208 OVERLAND CT
Address:
City/State/Zip: MINT HILL, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 8341 ROLLING FIELDS RD		1	250.00	250.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
		2,069.05			