


7026 MCILWAINE RD

01516119

12/20/2007

duponbj

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

# CERTIFICATE OF COMPLETION/OPERATION PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 1370-B DATE: 9-30-96

TC: 015-161-31 PVC ~~GRT~~

SERIAL Nº 16893

Name of Owner HANK GANT Juris.: _____

Address of Property 7026 McILWAINE RD

**Inspection Data:**

Tank Material PCC

Total Length of Drainfield 200

Number of Lines 3 @ 67

Cover Depth 12" +

Water Supply Source well

Distance to Water Source ≈ 53'

Excavation Inspected 9-30-96

Tank(s) Inspected 9-30-96

Wash Line Inspected —

High Water Alarm Inspected —

PLOT

Design 1996 1500 ST INV. CHAMBER SYSTEMS TYPE III CTR# Joith Irwin

The undersigned has inspected the Septic Tank System described above, and certifies it has been

- ☑ installed or constructed
- ☐ in accordance with the permit issued
- ☐ altered or repaired
- ☐ as detailed in the plot above

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. This issuance of this

- ☐ Certificate of Completion
- ☑ 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. 1990 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/revocation of this permit.

COMMENTS: _____

Environmental Health Specialist

Mecklenburg County services are available without regard to ethnic origin, sex, or disability.

# INSTALLATION, CONSTRUCTION, ALTERATION, AND/OR REPAIR APPROVAL

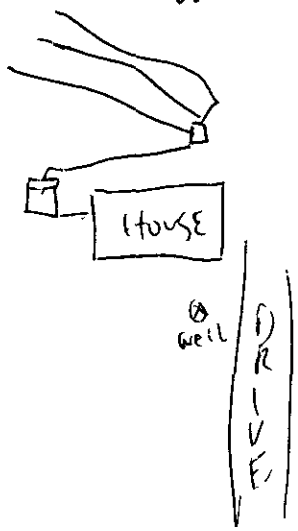
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: B70-8 DATE: 8-29-96

TC: 015-161-31 P.O. CL

SERIAL Nº 16984

Permission is hereby given to ✓ Install or Construct, _____ Alter or Repair the individual septic tank wastewater treatment system with subsurface, soil absorption, effluent discharge as specified herein at the described location. This permit is granted based upon the information supplied in the application dated 5-31-96. All work shall be completed on or before 9-29-96, after which date this permit 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 the granting of this permit. A Certificate of Completion or 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 or hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.




PLOT OF SYSTEM

Liquid Capacity of Septic Tank 1500 gallons

Liquid Capacity of Dosing Tank — gallons

Tank Construction PCC

Trench Depth 24"

Absorption and/or Nitrification Lines:

Trench Width 3 feet

Trench Walls Scored and Porous yes

Total Line Length 200' feet

Number of Lines 3

Depth of Stone — inches

Distance from House 5' + feet

Distance from Property Line 10' + feet

Distance from Well 50' → feet

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

NAME OF OWNER Henry Grant

LOCATION OF PROPERTY 7026 McIlwaine Rd

Comments: _____

S Bateman for S Daniel, Program Chief 9-5-96

Environmental Health Specialist

WHITE - HEALTH DEPARTMENT's COPY • CANARY - E.H.S. COPY • PINK - OWNER OR AGENT's COPY

Permit Number: 1370-B

# CONDITIONS OF IMPROVEMENT PERMIT

Tax Number: 015-161-31-P0

- The 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.

| | | | | |
|---|---|---|---|---|
| Basement | ___ Yes | ✓ No | ___ Partial Basement | |
| Type Primary Wastewater System<br>Type (circle one):<br>I II (III) IV V VI | ___ Conventional<br>___ Prefabricated, permeable block panel system<br>___ Shallow Placed Conventional | ___ Low Pressure Pipe<br>___ Large Diameter Pipe<br>___ Fill<br>___ Other | ✓ Innovative or Experimental:<br>___ IWWS-93-1<br>___ IWWS-93-2<br>___ IWWS-94-1 | |
| .3 Long-term acceptance rate | 240 Max gallons/day wastewater flow | 600 Absorption Area (sq ft) | 9 Trench spacing (min. on centers) | |
| yes Serviced by private well | 1500 Gallon septic tank | ___ Total trench length (ft) | 30" Maximum trench depth (At least 12" of *provisionally* suitable soil must remain between trench bottom and unsuitable soil conditions) | |
| 2 Bedrooms in residence | ✓ Gallon pump tank | ✓ Depth of stone sand needed for backfill | | |
| Any surface waters present: | Type: No | Minimum separation distance: | | |
| Site modifications required: | | | | |
| Additional Conditions: Agreement form must be executed and recorded prior to installation approval | | | | |
| Repair Area System Type<br>Type (circle one):<br>I II (III) IV V VI | ___ Conventional<br>✓ Prefabricated, permeable block panel system<br>___ Shallow Placed Conventional | ___ Low Pressure Pipe<br>___ Large Diameter Pipe<br>___ Fill<br>___ Other | ___ Innovative or Experimental:<br>___ IWWS-93-1<br>___ IWWS-93-2<br>___ IWWS-94-1 | |
| 200 Absorption Area (Sq ft)<br>135 Total Trench Length (Ft) | 30 Depth of ~~Stone~~ sand Trench | 8 Trench spacing (min. on centers) | 30" Maximum Trench Depth | |
| For existing system, enter the year originally installed: | | | | |

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Department
- This Improvement permit is transferable.

DEHNR Authorized Agent — Date 5-31-96

Owner/Agent Signature — Date 5-31-96

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

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

CS#13539 Paid Cash 6400

**FEE:** 200.00 **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
**DATE:** 5/31/96 **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 5/31/96 PERMIT NO: 1370-B
PARCEL NO: 015-161-31

JOB LOCATION ADDRESS: 7026 McIlwaine Rd
PROPERTY OWNER: Henry B Gant
BUILDING CONTRACTOR:
SUBDIVISION NAME:
AUTHORIZATION ISSUED BY: Carol Rell DATE: 5-21-96
DEHNR AUTHORIZED AGENT

## AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 1370-B, 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.

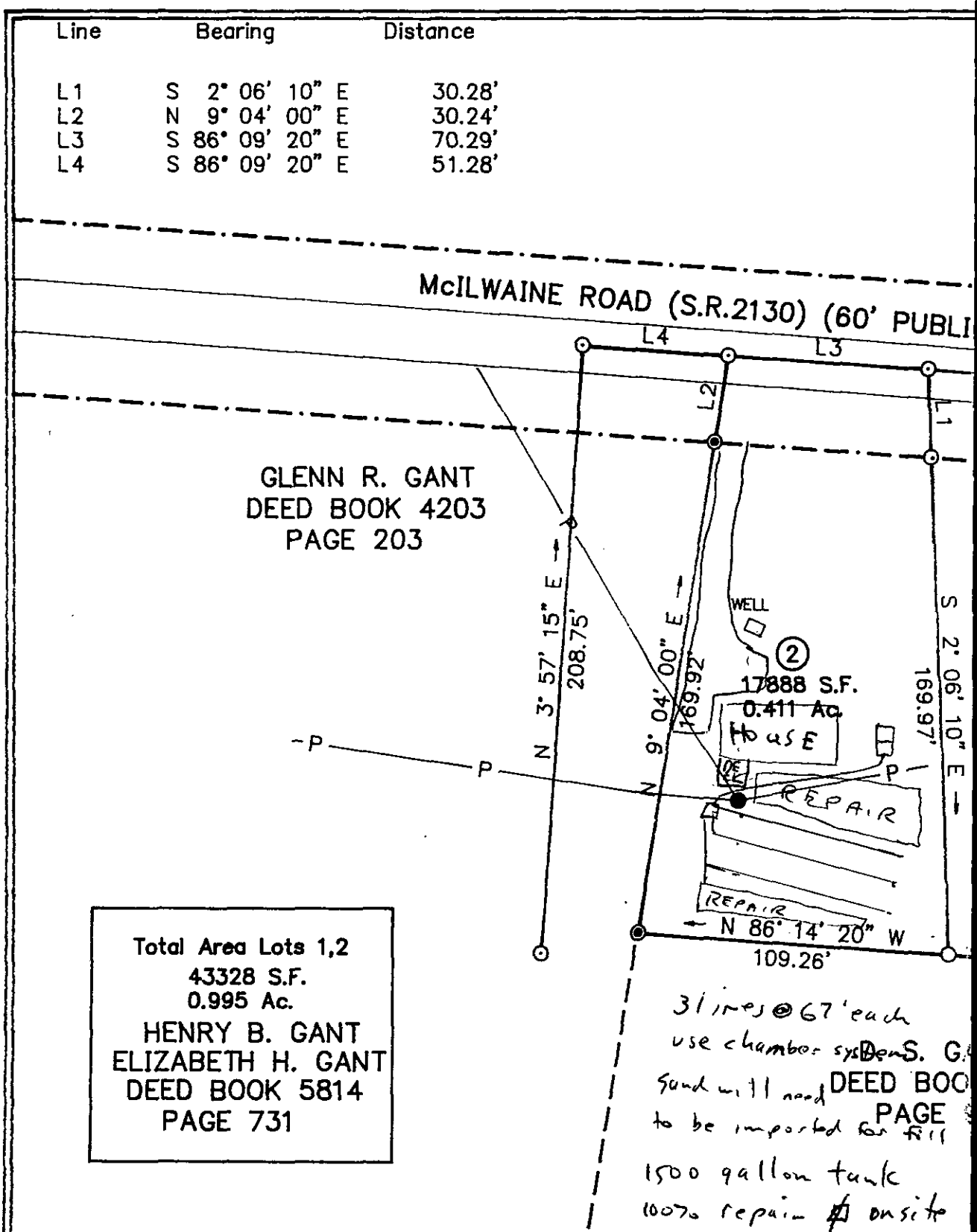
4. OTHER CONDITIONS: Agreement form must be executed and recorded Prior to installation approval

## 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.

X Henry B Gant 5-31-96
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

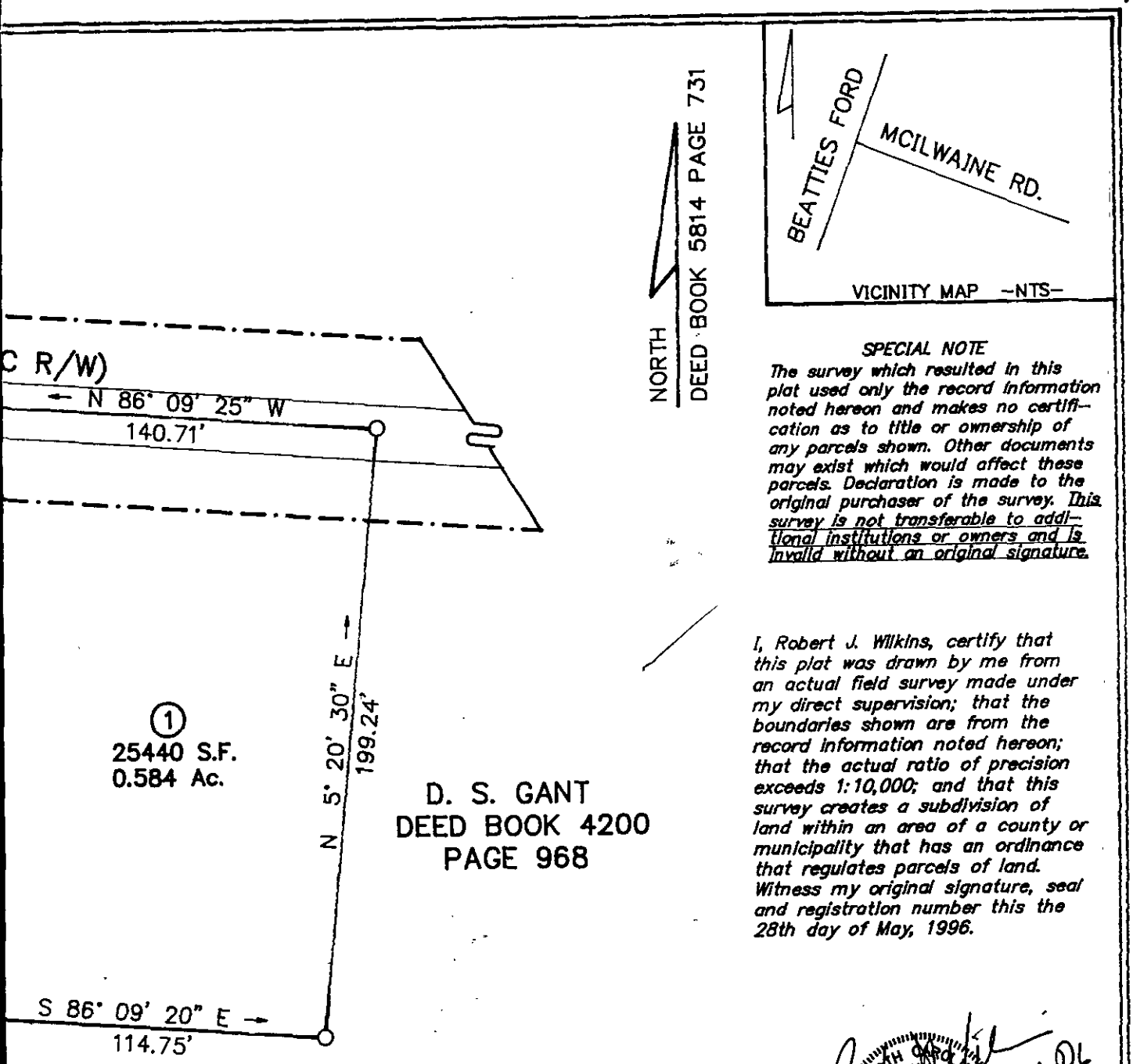
| Line | Bearing | Distance |
|---|---|---|
| L1 | S 2° 06' 10" E | 30.28' |
| L2 | N 9° 04' 00" E | 30.24' |
| L3 | S 86° 09' 20" E | 70.29' |
| L4 | S 86° 09' 20" E | 51.28' |




⊙ = EXISTING IRON
○ = 5/8" REBAR SET
● = UTILITY POLE


Wilkins & Associates Post Office Box 665 191-B West Plaza Drive
Land Surveying Consultants Mooresville, NC 28115 Tel (704) 663-5586


Project # 960062
Date: 29 MAY96




*SPECIAL NOTE*

*The survey which resulted in this plat used only the record information noted hereon and makes no certification as to title or ownership of any parcels shown. Other documents may exist which would affect these parcels. Declaration is made to the original purchaser of the survey. This survey is not transferable to additional institutions or owners and is invalid without an original signature.*

*I, Robert J. Wilkins, certify that this plat was drawn by me from an actual field survey made under my direct supervision; that the boundaries shown are from the record information noted hereon; that the actual ratio of precision exceeds 1:10,000; and that this survey creates a subdivision of land within an area of a county or municipality that has an ordinance that regulates parcels of land. Witness my original signature, seal and registration number this the 28th day of May, 1996.*

NORTH CAROLINA REGISTERED L-3393 LAND SURVEYOR ROBERT J. WILKINS

ANT
K 4200
968

Owner

50 25 0 50 100

SCALE OF DRAWING IS 1 INCH = 50 FEET

psd: 960062-1 dwg: 960062-1

Survey for:

**HENRY B. GANT**
**ELIZABETH H. GANT**
**7032 McILWAINE ROAD, HUNTERSVILLE**
LONG CREEK TOWNSHIP
MECKLENBURG COUNTY, NORTH CAROLINA

BK: 08670 PG: 0683/0685 #:0181 13.05
JUDITH A GIBSON REG OF DEEDS MECK NC
FILED FOR REGISTRATION 07/25/96 12:27

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

**WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c); OR .1969**

**FILE #** 1370B
**PARCEL #** 015-161-31

The undersigned, Henry B. Gant, owner of property located at 7026 McIlwaine Rd Huntersville N.C. 28078 (the "site") and described in an instrument recorded in Book 4200 at Page 968, Mecklenburg Public Registry, hereby acknowledges that the undersigned applied to the Mecklenburg County Health Department (the "Department") for a permit to install a septic tank sewage disposal system on the site; that the Department evaluated the site for suitability for such a system in accordance with the regulations promulgated by the North Carolina Commission for Health Services as 15A NCAC 18A .1900 et seq.; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested that the Department reclassify the site as "provisionally suitable" in light of the particular septic tank system proposed by the undersigned; that the Department considered various studies, data, and other information which indicate to the Department that the septic tank system proposed by the undersigned is allowed by the rules; and that the Department therefore reclassified the site as "provisionally suitable" and issued an appropriate permit for such proposed septic tank system.

The undersigned further acknowledges that the proper design, construction, operation and maintenance of such septic tank system is the responsibility of the designer, owner, developer, installer, or user of the system, as applicable, and that neither the Department nor its officials, employees, or agents warrant or guarantee that the said system installed pursuant to the permit issued by the Department will function in a satisfactory manner for any given period of time or that the Department, its officials, employees or agents assume any liability for any damages of any kind which are caused, or which may be caused, by a malfunction of such system.

The undersigned further acknowledges that the following conditions will apply to the site:

- Any changes on the property may make the Improvement Permit Null and void and may make the Improvement Permit subject to revocation.

*This instrument was prepared by:* Henry B. Gant
*Mail after recording to:* 7032 McIlwaine Rd. Huntersville N.C. 28078





Home

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to Rule .1961, "Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the installation, operation, or failure of said septic tank system.

Use of the singular masculine pronoun forms herein shall be deemed to also include the plural and feminine forms as the context may require.

This document shall be placed on the public records of the Register of Deeds of Mecklenburg County and indexed therein under the Grantor Index in the name or names of the undersigned, and the foregoing acknowledgements shall henceforth be binding on all persons claiming any right, title, or interest in the site.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, this 25th day of July, 1996.

_____ Henry B. Gant (SEAL)
(Corporate Name)

_____ (SEAL)

By: _____ _____ (SEAL)

_____ President _____ (SEAL)

ATTEST:

_____

_____ Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, Vicki L. Mason, a Notary Public for said County and State, do hereby certify that Henry B. Gant personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 25th day of July, 1996.

Vicki L. Mason
Notary Public

My Commission Expires:
8/18/2000



RBCWM:24751_1/8:30-95

# MECKLENBURG COUNTY REGISTER OF DEEDS
## JUDITH A. GIBSON - REGISTER

CUSTOMER RECEIPT: 07/25/96

| Date | Time | Inst # | Type | Book | Page | Trx | Amount |
|---|---|---|---|---|---|---|---|
| 07/25/96 | 12:27 | 181 | PERMIT | 8670 | 683 | FEE | 12.00 |
| 07/25/96 | 12:27 | 181 | PERMIT | 8670 | 683 | COPY | 1.05 |
| 07/25/96 | 12:27 | | | | | TOT | 13.05 |
| 07/25/96 | 12:27 | | | | | CASH | 20.00 |
| 07/25/96 | 12:27 | | | | | CHNG | 6.95 |

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION

## OWNER'S ACKNOWLEDGMENT OF MODIFIED/ALTERNATIVE REPLACEMENT SYSTEM REQUIREMENT

Site Address: 7026 McIlwaine Rd. Huntersville N.C. 28078

File Number: 1370B

Parcel Number: 015-161-31 P0

Owner/Agent Name: Henry B. Grant
(Please print)

Date: 7-25-96 Number of Bedrooms: 2

Receipt of the plan and specifications for a conventional system of sewage disposal for the above property is hereby acknowledged. Upon receipt of the information, a review was made of the material on file and a site evaluation was conducted. The plan was then reviewed in conjunction with provisions of 15A NCAC 18A .1900 - "Sewage Treatment and Disposal Systems." The plan as submitted is disapproved because there is not sufficient available space for a repair area for a conventional replacement system.

This site may be developed if the repair area is found to be acceptable for either a modified system (Rule .1956) or an alternative system (Rule .1957) for the replacement system as allowed by the following Rule 15A NCAC 18A .1945(b).

(b) Sites shall have sufficient available space for a repair area separate from the area determined in Paragraph (a) of this Rule. The repair area shall be based upon the area of the nitrification field required to accommodate the installation of a replacement system as specified in Rule .1955, .1956, or .1957 of this Section. Prior to issuance of the initial Improvement Permit for a site, the local health department shall designate on the permit the original system layout, the repair area, and the type of replacement system.

Please be advised that you have the right of an informal review by this Department and the right of appeal under G.S. 130A-335(g) and 130A-24, which appeal can be held in Mecklenburg County.

By signing this form, and signing and recording in the Mecklenburg County Register of Deeds Office the attached reclassification form entitled, **WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c)**, you, the property owner, understand and acknowledge your option to develop this site initially with a

conventional sewage system and when needed, subsequently to repair or replace said system with a modified or alternative system as described in Rules .1956 "Modification to Septic Tank Systems," or .1957(a), (b), or (c) "Design Criteria for Design of Alternative Sewage Systems." The completed reclassification form must be approved by this office before it can be recorded.

In addition, you the property owner, also understand that the following conditions will apply:

- Any changes on the property may make the Improvement Permit null and void and may make the Improvement Permit subject to revocation.

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to Rule .1961, "Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

Environmental Health Specialist _____ Date _____

I have reviewed this document and understand its provisions and implications concerning the issuance of the Improvement Permit for the above-referenced site.

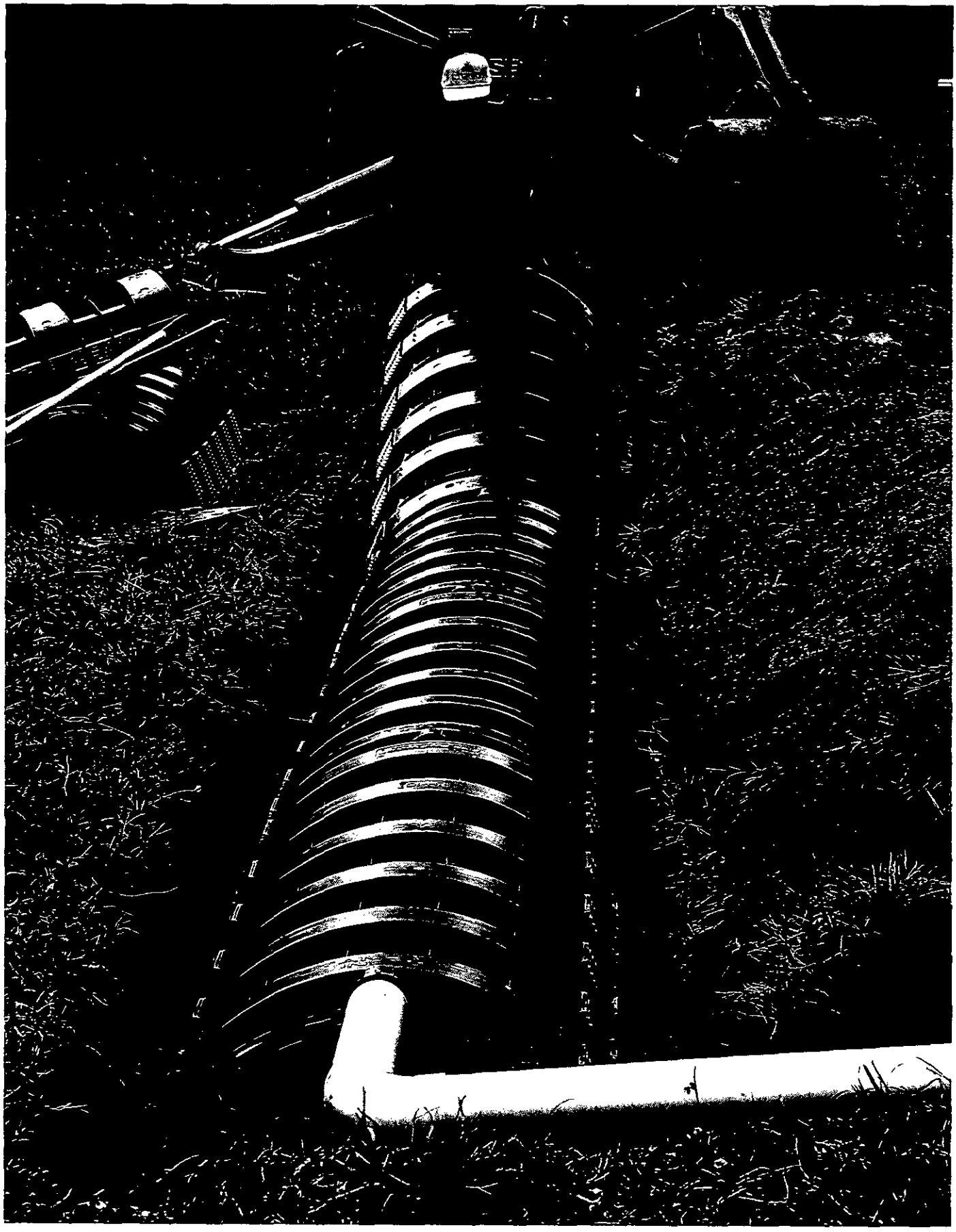
Henry B Dart _____ 7-25-96 _____

Property Owner Signature Date

700 North Tryon Street, Suite 211, Charlotte, North Carolina 28202,
(704) 336-5102

# The Infiltrator® Chamber System for Septic Leachfields.

INFILTRATOR® SYSTEMS INC

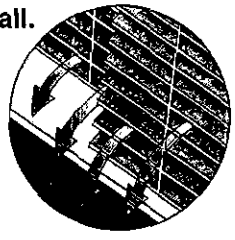


# Standard and High Capacity Infiltrator chambers provide up to twice the infiltrative capacity of stone and pipe systems.

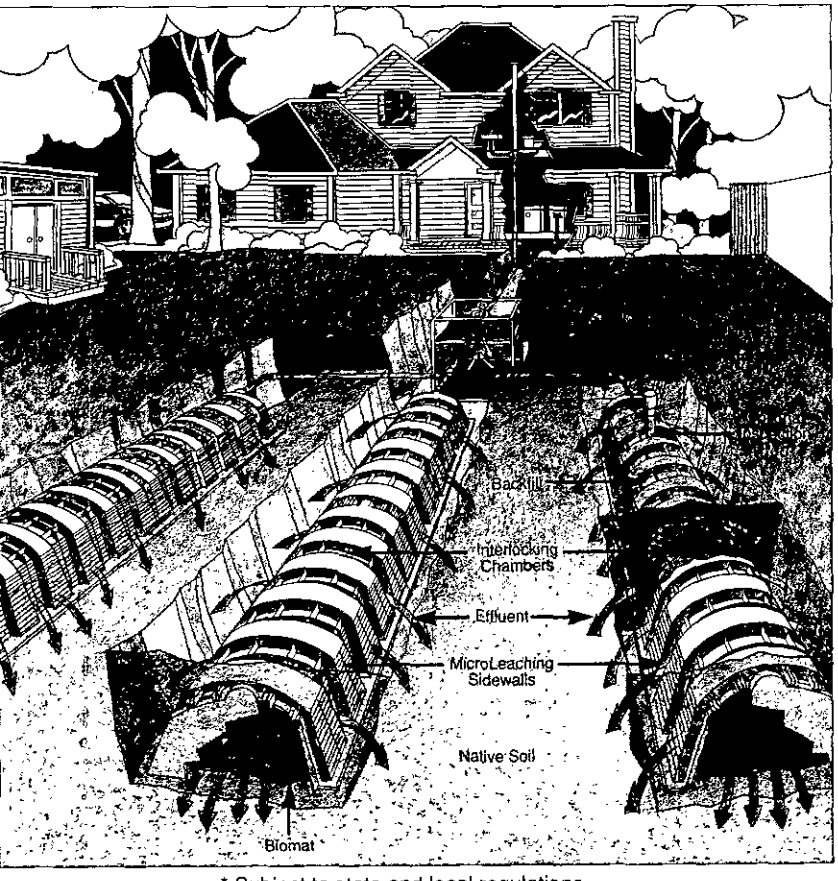
**The Infiltrator Chamber System** replaces old-fashioned stone and pipe leachfields with patented, high-strength polymer chambers. Two chamber sizes are available, Standard and High Capacity, both designed to fit in a standard 36" wide trench. Infiltrator chambers sit directly on the trench bottom. The patented interlocks add strength and latch the chambers together quickly, end to end, so installation takes less than half the time of a laborious stone and pipe job.

Infiltrator chambers may be used for any application that is suitable for stone and pipe. However, by offering greater infiltrative capacity per linear foot, chamber systems can require as little as half the space as conventional systems.*

**Patented MicroLeaching™ sidewall.**
The Infiltrator chamber has an engineered, louvered sidewall that allows effluent to pass laterally into the soil. The angled louvers prevent backfill intrusion into the chamber while 1/4" slots allow lateral leaching.



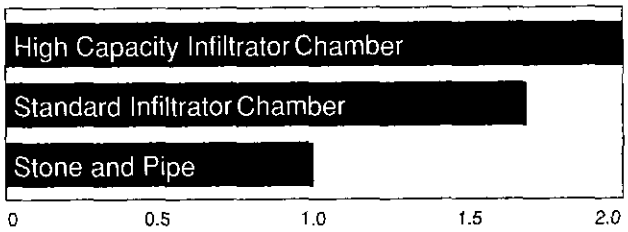
MicroLeaching sidewall




* Subject to state and local regulations.

**Open chamber bottom boosts infiltration.**
The chamber bottom is completely open, promoting effluent infiltration into the soil with 100% efficiency. The open-bottom area, in combination with the MicroLeaching sidewall, provides maximum infiltrative capacity for long-term, trouble-free service.

**LTAR (Long-Term Acceptance Rate).**




This graph demonstrates the dramatic efficiency improvement in LTAR of Infiltrator chambers over stone and pipe trenches. The LTAR is a measure of the long-term ability of the system to pass effluent into the soil. For example, High Capacity Infiltrator chambers move up to twice the effluent of a same-size stone and pipe trench. This efficiency is recognized by many state and local jurisdictions, who in turn may allow up to 50% shorter trenches.

**High-density polyethylene construction.**
Infiltrator chambers are molded of high-density PolyTuff™ polyethylene. This proprietary blend, including recycled resins, is formulated for optimum strength and chemical resistance. It's impervious to wastewater constituents and is stabilized to resist ultraviolet rays. Infiltrator chambers are manufactured using an exclusive patented process to assure consistent high quality.

**AASHTO H-10 and H-20 load ratings.**
Infiltrator chambers have been structurally tested by a registered professional engineer. Both Standard and High Capacity chambers are available with AASHTO ratings of H-10 (16,000 lb/axle with 12" of compacted cover) or H-20 (32,000 lb/axle with 18" of compacted cover).

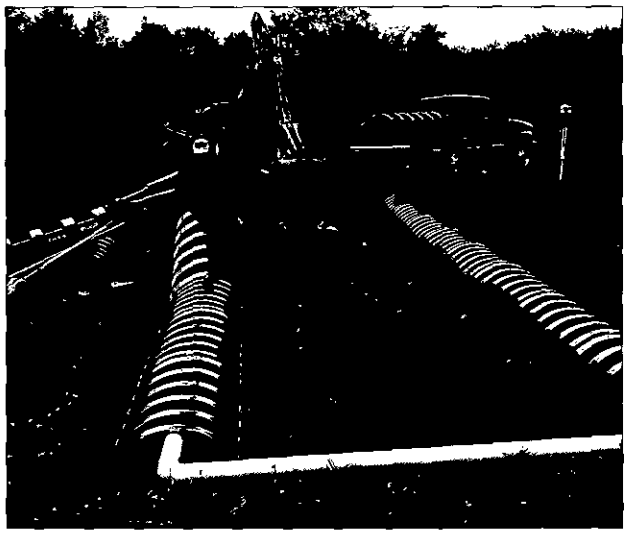
**Nominal chamber specifications.**

| | Standard Chamber | High Capacity Chamber |
|---|---|---|
| Size, W x L x H | 3' x 6-1/4' x 1' | 3' x 6-1/4' x 1-1/3' |
| Weight | 27 lb. | 33 lb. |
| Capacity | 77 gal. (10.3 cu. ft.) | 122 gal. (16.3 cu. ft.) |

# Compare the installation and operating advantages.

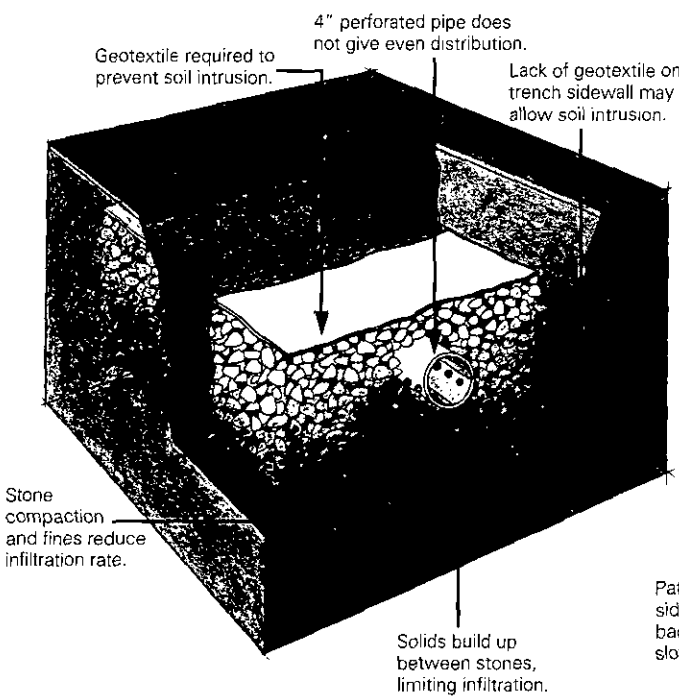


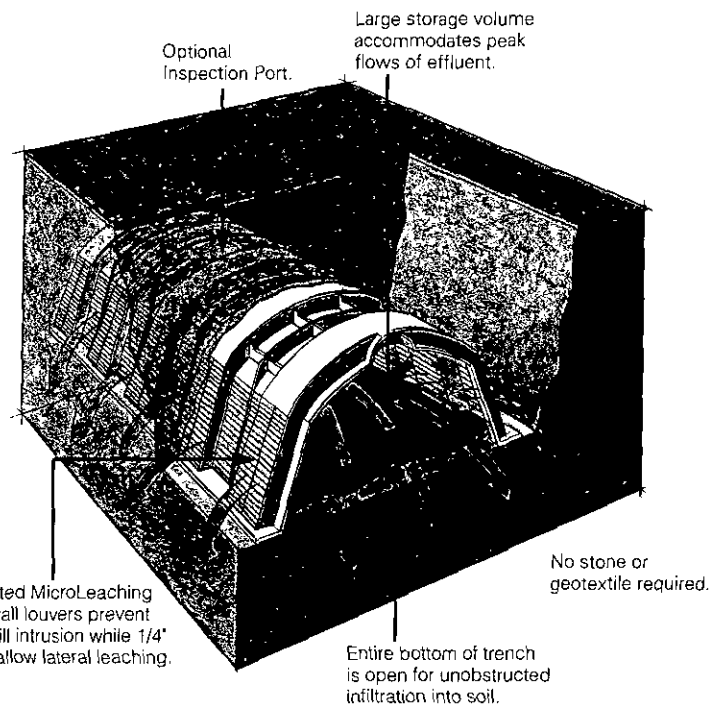
**Conventional stone and pipe system**



**Infiltrator Chamber System**

| | |
|---|---|
| • Labor-intensive, lengthy installation. | • Easy assembly and installation by two people. |
| • Dump truck needed for stone delivery. | • Only a backhoe and pickup truck are required. |
| • Stone hauling adds expense and time, and increases soil compaction. | • Lightweight chambers can be delivered in one pickup truck load and hand-carried into position. |
| • Stone in trench reduces Long-Term Acceptance Rate by more than 50%. | • Entire trench bottom is open for effluent infiltration with 100% efficiency. |
| • Heavy traffic across yard and spilled stone mean there is more site repair needed after installation. | • There is less regrading, tree damage and landscape repair involved, and no stone cleanup. |
| • System lacks easy inspection and monitoring of leachfield without digging up the yard. | • Inspection port is available for easy access to leachfield with no site disruption. |
| • Geotextile required on top of stone. | • Solid-topped chambers need no geotextile. |
| • Greater overall cost. | • Lower overall cost. |



# Infiltrator Systems Inc., the industry leader in septic and stormwater chamber system technology.

**Four million chambers already in service.**
In just eight years, the innovative leaching chambers of Infiltrator Systems have drastically changed the technology of on-site septic and stormwater disposal. Already, 4 million chambers have been installed in 46 states, Canada and other countries, forming over 75 million square feet of chamber systems with a success rate of 99.5%. And, we're expanding at the rate of 6,000 new systems a month.

**Environmentally concerned company.**
Infiltrator Systems devotes over $500,000 a year to research and development, creating new products that operate more and more efficiently and conserve natural resources. Besides using recycled resins, Infiltrator Systems' products take better care of the environment by avoiding the mining, crushing, grading, washing and hauling of stone, as well as the environmental impact and site disruption that stone causes. That's one of our "greener" ideas for septic and stormwater disposal that just makes sense.

**Infiltrator stormwater management.**
Besides our septic chamber systems, Infiltrator Systems is on the leading edge of the emerging stormwater management field. Large storage and infiltrative capacities, combined with underground installation, give designers better solutions for retention or detention applications.

**For more information...**

**Call 1-800-221-4436 for a free copy of the septic installation instructions.**







**Distributed By:**

INFILTRATOR® SYSTEMS INC

*Leading the way in septic and stormwater chamber systems℠*

4 Business Park Road, P.O. Box 768
Old Saybrook, CT 06475
800-221-4436 860-388-6639 FAX 860-388-6810

U.S. Patents: 4,758,661; 5,107,401; 5,156,448; 5,336,017; 5,401,459, 5,401,116
Canadian Patent: 1,329,959 Other U.S., Canadian and foreign patents pending.

Infiltrator is a registered trademark and the following are trademarks of Infiltrator Systems Inc.: Contour, Equalizer 24, Maximizer, MicroLeaching, PolyTuff, PowerArch, SideWinder, SnapLock

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DATE 5/31/96

TO: CHARLOTTE-MECKLENBURG BUILDING STANDARDS
PERMIT ISSUING SECTION

FROM: MECKLENBURG COUNTY ENGINEERING

JURISDICTION Heck

# 015-161-31 PO
PARCEL NUMBER

7026 MCILWAINE RD
ASSIGNED STREET ADDRESS (ADDRESS OF RECORD)

EXISTING STREET ADDRESS (IF DIFFERENT FROM ASSIGNED)

N/A
PROJECT NAME (IF APPLICABLE)

**THE ABOVE DESCRIBED LOCATION HAS BEEN CHECKED CONCERNING:**

| | | |
|---|---|---|
| **1. SUBDIVISION REGULATIONS** | **APPROVED** | **NOT APPROVED** |
| **2. FLOODWAY REGULATIONS** | **APPROVED** | **NOT APPROVED** |
| **3. WATERSHED PROTECTION** | **APPROVED** | **NOT APPROVED** |
| **4. COMMERCIAL DRAINAGE PLAN** | **APPROVED** | **NOT APPROVED** |
| **5. PUBLIC UTILITY EASEMENT** | **PRESENT** | **NOT PRESENT** |
| **6. PROPERTY FRONTS ON THOROUGHFARE** | **YES** | **NO** |
| **7. DRIVEWAY PERMIT REQUIRED** | **YES** | **NO** |
| **8. DOES PROJECT CONFLICT WITH ROAD PROJECT?** | **YES** | **NO** |

**REMARKS:** S.F. HOME

NOTE: THIS FORM MUST BE TURNED IN AT THE CASHIERS OFFICE WHEN PAYING PERMIT FEE. CERTIFICATE OF OCCUPANCY WILL NOT BE GRANTED UNTIL TRANSPORTATION DIVISION GRANTS FINAL APPROVAL ON DRIVEWAY(S).

ALL OTHER FORMS OBSOLETE

☒ NEW ADDRESS

SIGNED: B. McCONICO

REVISED 1/91

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

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

# SOIL/SITE EVALUATION
## for ON-SITE WASTEWATER SYSTEM

#2 1370B
PO 015-161-31

OWNER: Henry Jessup APPLICANT: ___
ADDRESS: 2032 McIlwaine Rd Lawrence APPLICATION DATE: ___ DATE EVALUATED: ___
PROPOSED FACILITY: residence PROPOSED DESIGN FLOW (.1949): Not given PROPERTY SIZE: 3
LOCATION OF SITE: McIlwaine Rd #7026 PROPERTY RECORDED: ___
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☒ Other Stream
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

| PROFILE # | Slopes 6-11% .1940 LANDSCAPE POSITION/ SLOPE % | .1940 HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS | 0-2" | gr/cl | Fr/SE XP/SS/SP | 7.5YR 6/8 Chroma 2 Mottles | 43" | N/A | None | IV PS .35/1.2 |
| | | 2-30" | sBK/cl | Fr-Fi/SE XP/SS/P | | | | | |
| | | 30-43" | sBK/cl | Fr/SE XP/SS/SP | | | | | |
| 2 | LS | 0-2" | gr/cl | Fr/SE XP/SS/SP | 7.5YR 6/8 Chroma 2 Mottles | 46" | N/A | None | IV PS .35/1.2 |
| | | 2-46" | sBK/cl | Fr-Fi/SE XP/SS/P | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 43 | 43 |
| System Type(s) | | |

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): Unsuitable
EVALUATED BY: William B. Mackie Reg. LSE
OTHER(S) PRESENT: ___

OMMENTS: 100% Repair

# LEGEND

*use the following standard abbreviations*

| LANDSCAPE POSITION | GROUP | SOIL TEXTURE | CONVENTIONAL .1955 LTAR | LPP .1957 LTAR | MINERALOGY/ CONSISTENCE | STRUCTURE |
|---|---|---|---|---|---|---|
| C (Concave Slope) | I | S (Sand) | 1.2 - 0.8 | 0.6 - 0.4 | NEXP (Non-expansive) | G (Single Grain) |
| V (Convex Slope) | | LS (Loamy Sand) | | | SEXP (Slightly Expansive) | M (Massive) |
| (Drainage Way) | | | | | EXP (Expansive) | CR (Crumb) |
| S (Debris Slump) | II | SL (Sandy Loam) | 0.8 - 0.6 | 0.4 - 0.3 | | GR (Granular) |
| P (Flood Plain) | | L (Loam) | | | | SBK (Subangular Blocky) |
| S (Foot Slope) | | | | | | ABK (Angular Blocky) |
| (Head Slope) | III | SI (Silt) | 0.6 - 0.3 | 0.3 - 0.15 | | PL (Platy) |
| (Linear Slope) | | SICL (Silty Clay Loam) | | | | PR (Prismatic) |
| (Nose Slope) | | CL (Clay Loam) | | | | |
| (Ridge) | | SCL (Sandy Clay Loam) | | | MOIST | WET |
| (Shoulder Slope) | | SLC (Silt Loam Clay) | | | | |
| (Terrace) | | | | | VFR (Very Friable) | NS (Non-sticky) |
| | IV | SC (Sandy Clay) | 0.4 - 0.1 | 0.2 - 0.05 | FR (Friable) | SS (Slightly Sticky) |
| | | SIC (Silty Clay) | | | FI (Firm) | S (Sticky) |
| | | | | | VFI (Very Firm v. Very Sticky) | VS (Very Sticky) |
| | | O (Organic) | None | | EFI (Extremely Firm) | NP (Non-plastic) |
| | | | | | | SP (Slightly Plastic) |
| | | | | | | P (Plastic) |
| | | | | | | VP (Very Plastic) |

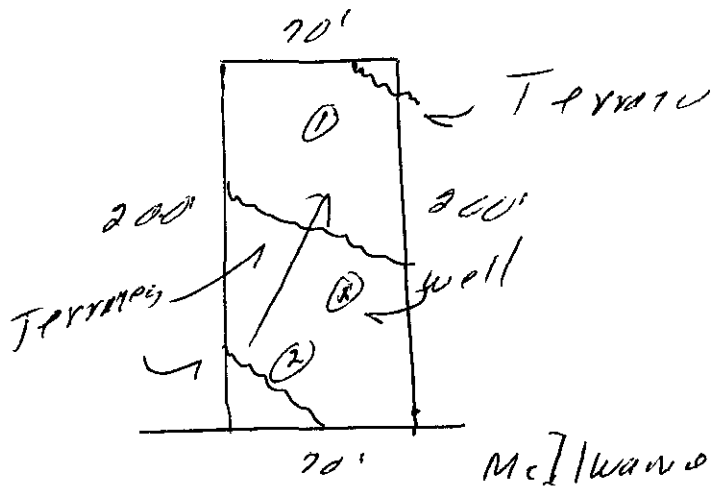
*OTES*

| | |
|---|---|
| *ORIZON DEPTH* | In inches below natural soil surface |
| *EPTH OF FILL* | In inches from land surface |
| *ESTRICTIVE HORIZON* | Thickness and depth from land surface |
| *APROLITE* | S(suitable) or U(unsuitable) |
| *OIL WETNESS* | Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation |
| *LASSIFICATION* | S (Suitable), PS (Provisionally Suitable), or U (Unsuitable) |

valuation of saprolite shall be by pits.

ong-term Acceptance Rate (LTAR): gal/day/ft²

**Show profile locations and other site features (dimensions, reference or benchmark, and North).**



FEE: 100.00

DATE: 4/18/96

CK # 3432

# 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 #: 1370B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 015-161-31 PO

STREET ADDRESS: 7026 McIlwaine Rd.

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER:

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: 1280

NUMBER OF BEDROOMS: 2

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) Gant (FIRST) Henry (MI) B. | NAME: (LAST) (FIRST) (MI) |
| ADDRESS: 7032 McIlwaine Rd. | DAYTIME PHONE: ( ) — |
| CITY: Huntersville STATE: N.C. ZIP: 28078 | |
| DAYTIME PHONE: (704) 875 - 3385 | |

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: Henry B. Gant DATE: 4-17-96

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

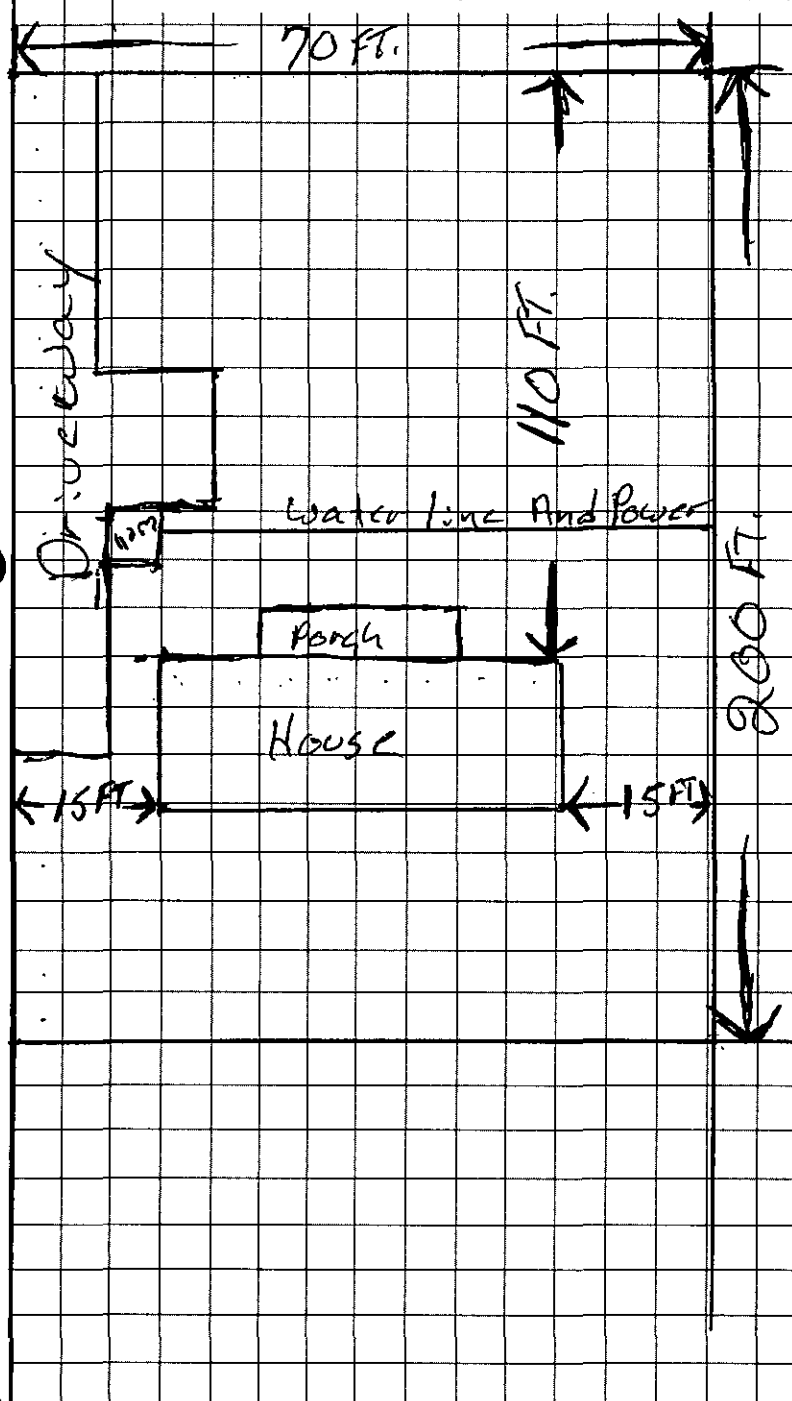
# PROPOSED PLOT PLAN

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

FILE: 13710B

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.

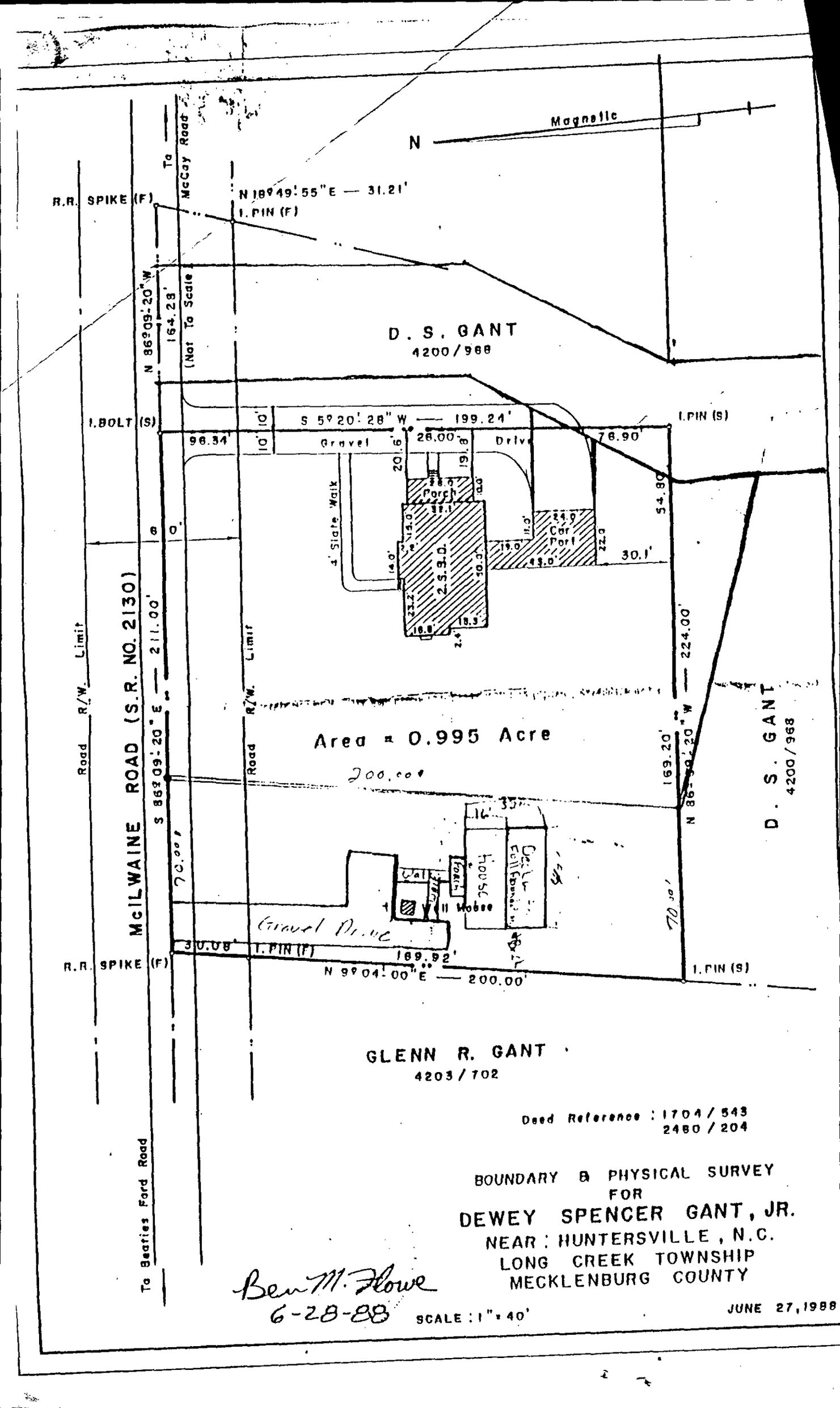



APPROVAL DATE _____

OWNER/AGENT SIGNATURE

DATE _____

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




Deed Reference : 1704/543
2480/204

BOUNDARY & PHYSICAL SURVEY
FOR
DEWEY SPENCER GANT, JR.
NEAR : HUNTERSVILLE, N.C.
LONG CREEK TOWNSHIP
MECKLENBURG COUNTY

Ben M. Howe
6-28-88

SCALE : 1" = 40'

JUNE 27, 1988