


6925 HEATH GLEN DR

19507241

1/7/2008

duponbj

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

2007
UTJ
STORAGE BLDNG

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 5059 B  WASPS App #: 2396

Primary ES assigned to project: _____

Secondary ES assigned to project: _____

Project Type: New System ☐ Alteration ☐ Repair ☐ Modified Plot Plan ☐ UTJ 8

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? | | | |
| .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 | Yes ☐ | No ☐ | N/A ☐ |
| .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 ☐ |

IL 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 ☐ |

Comments: # Items requiring correction/modification: _____

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: RR Date performed: 6-8-07

# #2396 JAM

FEE: _____
DATE: _____
CRT [ ]

**APPLICATION FOR APPROVAL TO USE AN EXISTING ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM**
**MECKLENBURG COUNTY - GROUNDWATER & WASTEWATER SERVICES**
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-8894

GWS – UES.APP 01/05
Project # 237910
FILE #: 50540

**TYPE APPLICATION:**

- ☐ ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A / M)
- ☐ ADDITION - RENOVATION OR GARAGE WITH NO MAJOR CHANGES (X)
- ☐ EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
- ☐ COMMERCIAL OR INDUSTRIAL (N)

**PERSON FILING APPLICATION:**
NAME: DARRELL DEE YATES
ADDRESS: 6925 HEATH GLEN DR.
CITY: MINT HILL
STATE: NC ZIP: 28227
PHONE: 704-545-6003
ALTERNATE PHONE: 704-258-5445

**PROPERTY OWNER:**
NAME: DARRELL DEE YATES
ADDRESS: 6925 HEATH GLEN DR.
CITY: MINT HILL
STATE: N.C. ZIP: 28227
PHONE: 704-545-6003
ALTERNATE PHONE: 704-258-5445

**JOB LOCATION INFORMATION**
TAX/PARCEL #: 19507241
STREET ADDRESS: 6925 HEATH GLEN DR.
CITY: MINT HILL
STATE: NC ZIP: 28227
SUBDIVISION OR MOBILE HOME PARK NAME: HEATHFIELD SUBDIVISION
LOT #: 05

**TOWNSHIP:**

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

**WATER SUPPLY:**

- ☐ MUNICIPAL (M)
- ☒ COMMUNITY (C)
- ☐ PRIVATE WELL (P)
- ☐ SHARED WELL (S)
- ☐ OTHER 'SPRINGS' (O)

**RESIDENTIAL PROPERTY TYPE:**

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

NUMBER OF BEDROOMS:
NUMBER OF OCCUPANTS:

**COMMERCIAL / INDUSTRIAL PROPERTY TYPE:** N/A
TYPE OF BUSINESS:
# EMPLOYEES PER SHIFT:
# OF SHIFTS:
INDUSTRIAL WASTES? ☐ YES ☒ NO
UNDERGROUND STORAGE TANKS? ☐ YES ☒ NO

**ADDITION TYPE ATTACHED TO EXISTING STRUCTURE:**

- ☐ BEDROOM
- ☐ BATHROOM
- ☐ KITCHEN
- ☐ DINING ROOM
- ☐ LIVING ROOM
- ☐ DEN
- ☐ GARAGE
- ☐ SUNROOM
- ☐ PORCH
- ☐ DECK
- ☒ OTHER

**ADDITION TYPE DETACHED FROM EXISTING STRUCTURE:**

- ☐ DETACHED GARAGE
- ☐ DETACHED GARAGE WITH PLUMBING
- ☐ POOL HOUSE
- ☐ SHOP
- ☐ BARN
- ☐ STORAGE SHED
- ☐ DETACHED PORCH / DECK
- ☒ OTHER STORAGE Bldg

*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.

Darrell Dee Yates
Owner's/Agent's Signature

6/12/07
Date

*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 Sanitary Sewage Collection, 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 y this Department.
- This permit is not transferable.

☒ ADDITION / RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE
☐ MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE

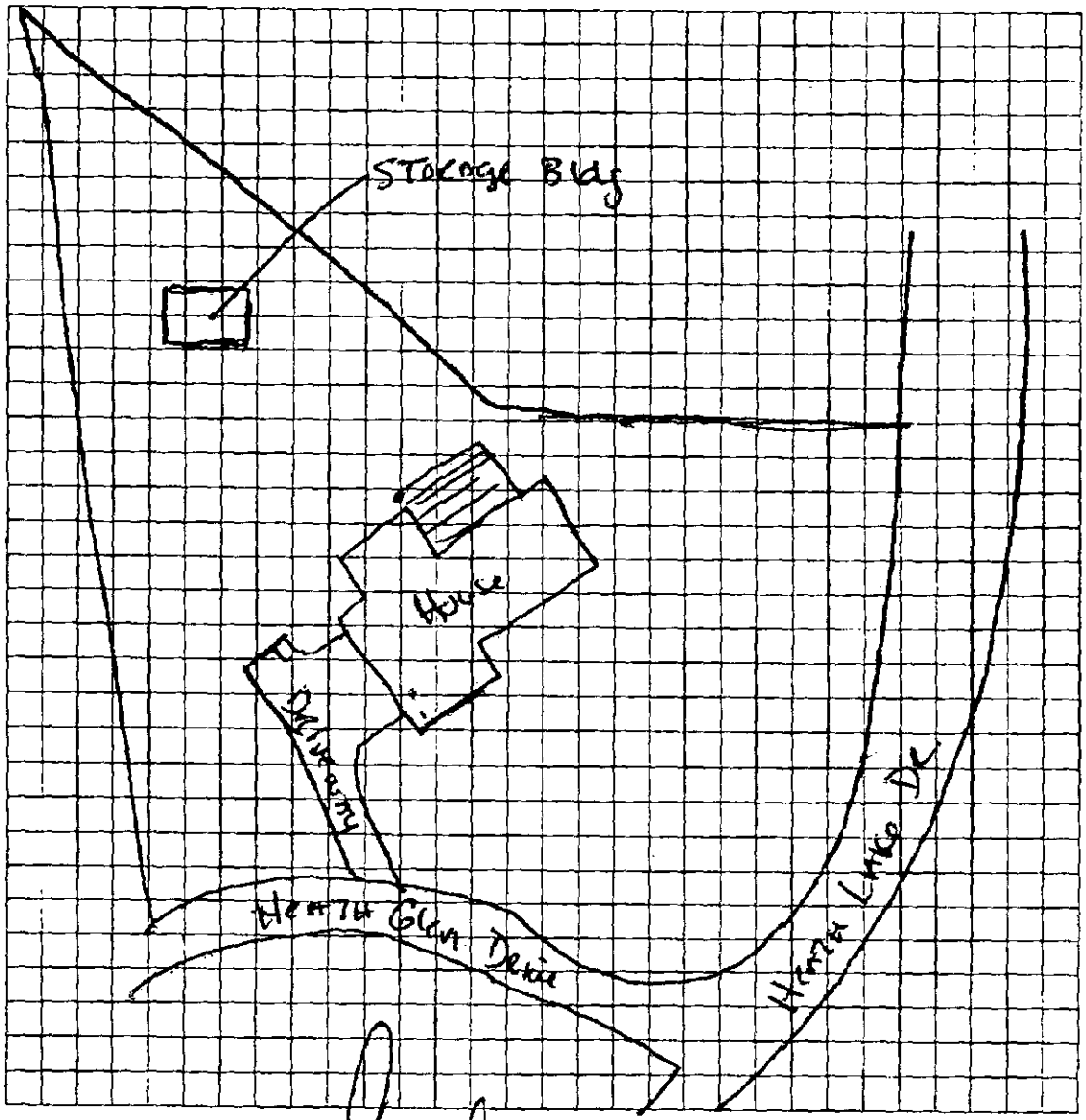
Jeremy Michael 06-15-2007
EHS Signature Date

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

5059B
File # ~~5059B~~
Date ~~6/13/07~~

## PROPOSED PLOT PLAN

A map showing existing and proposed property lines and easements with dimensions, the location of the single family residence, non-single family residence, or other facility, and appurtenances, the site for the proposed well, and the location of existing or proposed sewer lines and/or sewage disposal systems, surface water bodies, aboveground or underground storage tanks. Name all roads adjoining the property. If this a repair indicate the type of repair.




| | |
|---|---|
| Owner/Agent Signature | Ward Wellborn |
| Date | 6/11/07 |

LBC 12/15/04

*MECKLENBURG COUNTY*
*LAND USE AND ENVIRONMENTAL SERVICES*
*Payment Receipt*

LBC 12/15/04

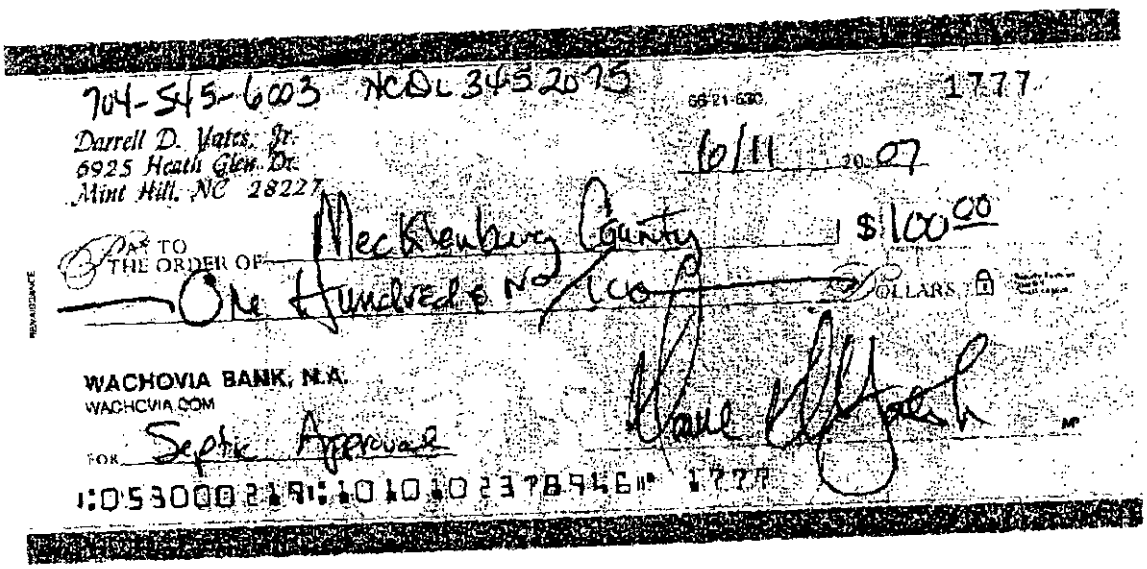
**Receipt Information**

| | | | |
|---|---|---|---|
| **Date:** | 06/12/07 | **Amount:** | 100.00 |
| **Receipt #:** | 51232 | **Tendered:** | 100.00 |
| **Check / Auth #:** | CHECK 1777 | **Returned:** | 100.00 |
| **Received By:** | POWELPT | | |

**Account Information**

**Account #:** 200000
**Contractor:** YATES, DARRELL D, JR.
**Attn:**
**Address:** 6925 HEATH GLEN DR
**Address:**
**City/State/Zip:** MINT HILL, NC 28227

| Item | Description | Permit# | Quantity | Unit Price | Total Price |
|---|---|---|---|---|---|
| 0705 | MH Exc/Add/Repl w/o System Mod<br>6925 hEATH gLEN dR | | 1 | 100.00 | 100.00 |


704-545-6003 NCDL 345207S 1777
Darrell D. Yates, Jr.
6925 Heath Glen Dr.
Mint Hill, NC 28227
6/11 20 07
PAY TO THE ORDER OF Mecklenburg County $100.00
One Hundred & No/100 DOLLARS
WACHOVIA BANK, N.A.
WACHOVIA.COM
FOR Septic Approval
1:053000219: 1010102378946" 1777

Outstanding Balances

| Month-To-Date | Prior Month | 30 Days | 60 Days | 90 Days | Balance |
|---|---|---|---|---|---|
| 50.00 | | | | | |

## *Mecklenburg County, NC*
## *POLARIS*
## Parcel Ownership and GIS Summary
*Date and Time: 12/9/2004 2:58:52 PM*

| ***Parcel ID #:* 19507241 *GIS ID #:* 19507241** | |
|---|---|
| Owner Name: | NVR INC |
| Mailing Address: | 10815 DAVID TAYLOR DR #100<br>CHARLOTTE, NC 28262 |
| **Property Characteristics** | |
| Legal Desc.: | L5 M39-733 |
| Land Area: | 0.818AC |
| Fire District: | 10-MINT HILL |
| Special District: | FIRE SERVICE F |
| Account Type: | NON-NC CORP |
| Municipality: | 7-MINT HILL |
| Property Use: | VACANT |
| **Deed Reference(s) and Sales Price** | |
| 17758-764 (9/16/2004) $47,500.00<br>11962-177 (2/26/2001) $0.00 | |
| **Situs Addresses Tied to This Parcel** | |
| 2521 HEATH LAKE DR | |
| **Site Location Information** | |
| Zoning Boundaries: | Contact Appropriate Planning Department |
| **ETJ Area:** MINT HILL | |
| **Charlotte Historic Districts:** NO | |
| **Within Charlotte 6/30/2005 Annexation Area:** NO | |
| **Census Tract #:** 57.13 | |
| **Parcel Falls Inside SWIM Buffer?:** YES | |
| **FEMA Flood Information** | |
| FEMA Panel #: | 3705390231E |
| FEMA Flood Zone: | OUT |
| FEMA Panel Date: | 02/04/2004 |
| **Regulated Watershed Information** | |
| Watershed Name: | |
| Watershed Class: | |

The information provided by this program is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, and other public records and data. Users of this map data are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

# CERTIFICATE OF COMPLETION/OPERATION PERMIT

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

FILE: 5059B DATE: 11/10/04

TC: 195 072 41 ☒ L ☒ CRT

SERIAL 19697

Name of Owner Ryan Homes Juris.: _____

Address of Property 6925 Heath Lake Dr

**Inspection Data:**

Tank Material PCC

Total Length of Drainfield 400'

Number of Lines 3 @ 133'

Cover Depth 12"

Water Supply Source Com well

Distance to Water Source >100'

Excavation Inspected 6/15/04

Tank(s) Inspected 11/10/04

Wash Line Inspected plumb to tank

High Water Alarm Inspected 11/10/04

PLOT

Design 2004, 1500ST, 1000DT, PI, pressure manifold, 400' EZ Flow CTR# RCS

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

☒ installed or constructed ☐ altered or repaired

☒ in accordance with the permit issued ☐ as detailed in the plot above

and meets the provisions of I5A 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 I5A 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: Septic System designed for a 4 bedroom residence. Type IIIbg 1' Drainfield located on lot 6

Philo S. Walker RS
Environmental Health Specialist

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

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

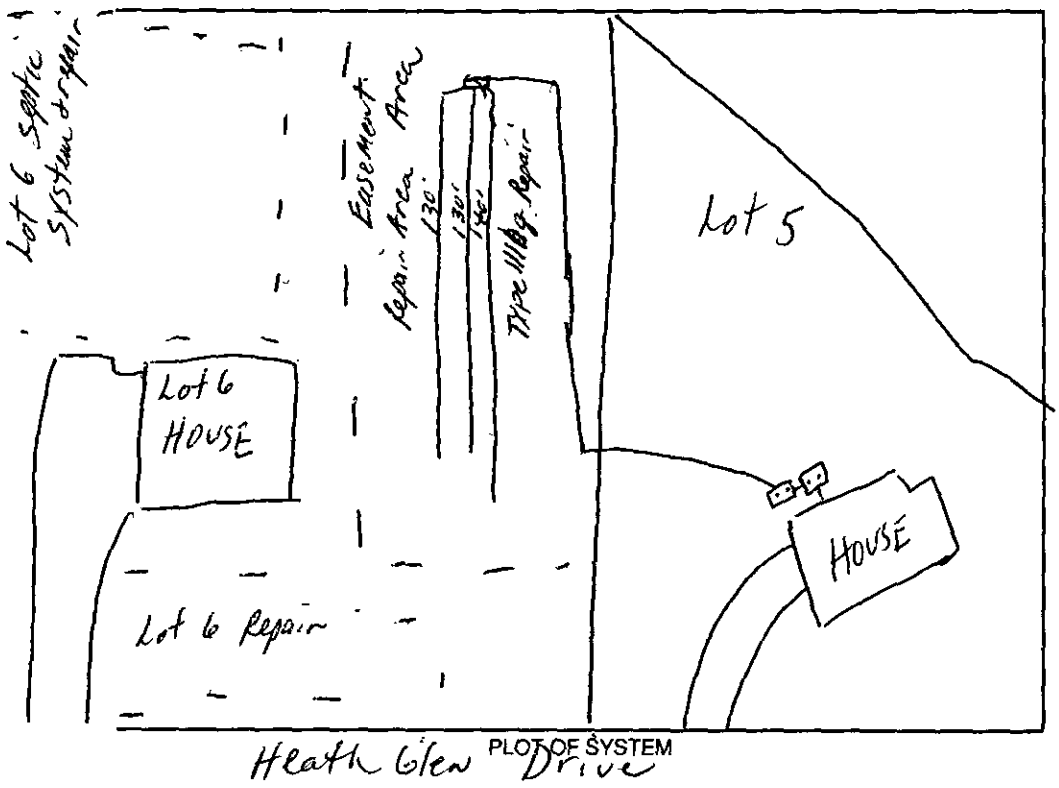
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: ~~5238B~~ 5059B DATE: 6/9/04

TC: ~~195 07 02~~ 195 07 12 41 L

SERIAL 19901

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 5/6/03. All work shall be completed on or before 7/9/04, 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 1000 gallons

Tank Construction PCC

Trench Depth 30"

Absorption and/or Nitrification Lines:

Trench Width 3 feet

Trench Walls Scored and Porous yes

Total Line Length 400' feet

Number of Lines 3 (133')

Depth of Stone NA inches

Distance from House 5' feet

Distance from Property Line 10' feet

Distance from Well > 100' feet

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

NAME OF OWNER Ryan Homes

LOCATION OF PROPERTY 2521 Heath Lake Dr

Comments: Install septic system in accordance w/ approved site plan 1500 ST, 1000 DT, pressure manifold distribution, 3 lines x 130' long x 3' wd / Drainfield located on Lot 6

Phila S. Walker RS
Environmental Health Specialist

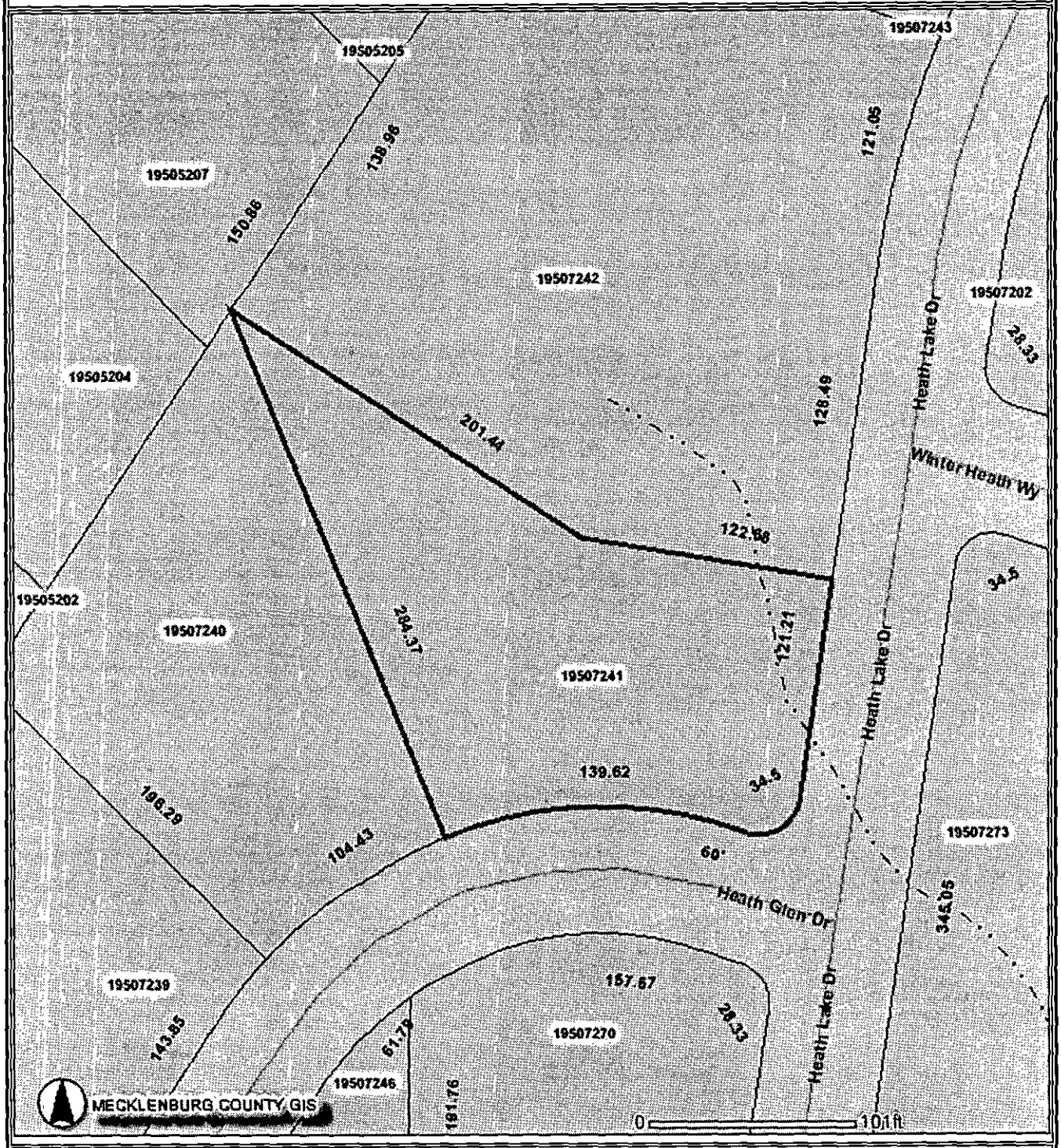
WHITE - HEALTH DEPARTMENT's COPY • CANARY - E.H.S. COPY • PINK - OWNER OR AGENT's COPY

**Mecklenburg County, North Carolina**

# POLARIS

***Property Ownership Land Records Information System***

Date Printed: Wed Dec 8 07:56:30 EST 2004




This map is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

2521 Heath Lake Dr
lot 5

Proof of Hunt Glen

X33575

FEE: 30.00 AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION
DATE: 6/16/04 VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE 5/05/09

DATE: 5/24/04 6925 Heath Glen Dr PERMIT NO: ~~5238B~~
PARCEL NO: ~~195 07A 02~~ 195 072 41
JOB LOCATION ADDRESS: ~~2524 Heath Lake Dr~~ Lot 5
PROPERTY OWNER: Ryan Homes
BUILDING CONTRACTOR: Ryan Homes
SUBDIVISION NAME: Heathfield
AUTHORIZATION ISSUED BY: Paula S Walker REHS DATE: 5/24/04
DEHNR AUTHORIZED AGENT

## AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 5238B, 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: Easement forms for Lot 6 shall be recorded and on file prior to construction authorization release. Agreement forms required.

## 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 Patricia Garner 6/4/04
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

76784

Permit Number: 5288505 9B

# CONDITIONS OF IMPROVEMENT PERMIT

Tax Number: 195 07102 072-41

- 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 | |
| .25 Long-term acceptance rate | 480 Max gallons/day wastewater flow | 660 Absorption Area (sq ft) | 8 Trench spacing (min. on centers) | |
| NO Serviced by private well (Com Well) | 1500 Gallon septic tank | 330' Total trench length (ft) | 42" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions) | |
| 4 Bedrooms in residence | 1000 Gallon pump tank | NA Depth of stone | | |
| Any surface waters present: NO Type: | | Minimum separation distance: | | |
| Site modifications required: | | | | |
| Additional Conditions: Easement form for lot 6 shall be recorded and on file prior to cons. Authorization release. Agreement forms required. | | | | |
| 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 | |
| 660' Absorption Area (Sq ft)<br>330' Total Trench Length (Ft) | NA Depth of Stone Trench | 8' Trench spacing (min. on centers) | 42" 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.

Phil S. Walker RS 5/24/04
DEHNR Authorized Agent — Date

x Patrice Garner 6/4/04
Owner/Agent Signature — Date

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

Project No. 76784

| FILE COPY | |
|---|---|
| FILED FOR REGISTRATION | DOC. # |
| DATE 4/21/04 | TIME 11:08am |
| BOOK 17072 | PAGE 539 |
| STAMPS | REC FEE 20.00 |
| JUDITH A. GIBSON, REGISTER OF DEEDS MECKLENBURG COUNTY, NC | |

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 # 5059B
PARCEl # 195072-41

The undersigned, NVR, INC DBA Ryan Homes, owner of property located at 6925 Heath Glen Dr. (the "site") and described in an instrument recorded in Book 316 at Page 539-540, 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:

This instrument was prepared by: NVR, INC DBA Ryan Homes
Mail after recording to: 10815 David Taylor Dr.
Charlotte, NC 28262

Project No. 76784

5059B

| FILE COPY | |
|---|---|
| FILED FOR REGISTRATION | DOC. # |
| DATE 6/14/04 | TIME 11:25am |
| BOOK 17305 | PAGE 990 |
| STAMPS | REC FEE 23.00 |
| JUDITH A. GIBSON REGISTER OF DEEDS MECKLENBURG COUNTY, NC | |

6/14/04

**STATE OF NORTH CAROLINA**

**COUNTY OF MECKLENBURG**

**SEPTIC TANK DRAIN FIELD EASEMENT DECLARATION AND AGREEMENT**

This DECLARATION AND EASEMENT made this 3rd day of June, 2004, by and between NUR, INC DBA Ryan Homes ("Declarant"), and any and all persons, firms or corporations hereafter acquiring any of the lots referred to herein.

**WITNESSETH:**

WHEREAS, Declarant is the owner of the Easement Parcel and the Benefitted parcel, as described herein; and

WHEREAS, Declarant wishes to create a Septic Tank drain Field Easement to control the development and the use of the Easement Parcel and the Benefitted Parcel for the protection of the owner of the Benefitted Parcel and the future owners thereof.

NOW, THEREFORE, Declarant hereby declares that the Easement Parcel and the Benefitted Parcel, as hereinafter defined, shall be held, sold and conveyed subject to the following Easement, which shall run with such parcels and be binding on all parties having any right, title or interest in such parcels, their heirs, successors and assigns, and shall be binding upon each owner thereof.

Declarant hereby creates an Easement as hereinafter described, to run with the land, upon that certain lot or parcel of land owned by Declarant, referred to herein as the "Easement Parcel", and located in the City of Mint Hill, _____ Township, Mecklenburg County, North Carolina, and more particularly described as follows:

This instrument was prepared by: NUR, INC DBA Ryan Homes
Mail after recording to: 10815 David Taylor Dr
Charlotte, NC 28262

Kathy

# SITE DEVELOPMENT PLAN

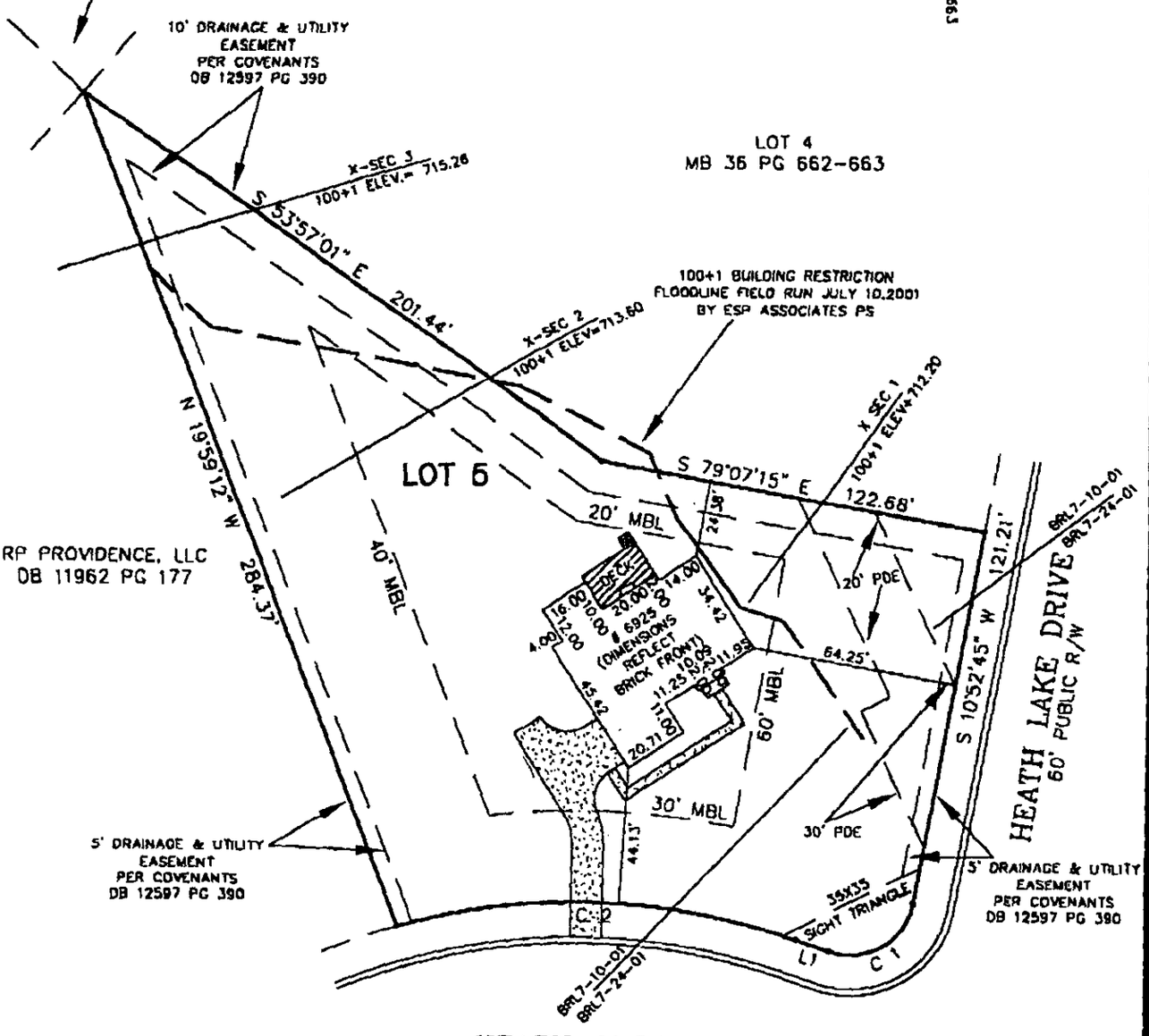
PREPARED BY:

DELTA LAND SERVICES, INC.
6033 FLORENCE AVENUE, SUITE 100
CHARLOTTE, NORTH CAROLINA 28212
(704) 536-6190

THIS SITE PLAN IS TO SHOW THE PROPOSED LOCATION OF THE HOUSE ON THE LOT AND IS NOT TO BE RELIED UPON FOR CONSTRUCTION.

N W E S

SCALE: 1" = 50'




| Line Table | | |
|---|---|---|
| Line | Length | Bearing |
| L1 | 11.03' | N 70°16'38" W |

ESTIMATED DRIVEWAY AREA = 1010.63 SQ.FT.±

| CURVE TABLE | | | | | |
|---|---|---|---|---|---|
| Curve | Radius | Length | Chord | Bearing | Delta |
| C 1 | 20.00' | 34.50' | 30.38' | S 60°18'03" W | 98°50'38" |
| C 2 | 210.00' | 128.59' | 126.59' | N 87°49'10" W | 35°05'04" |

NOT FOR RECORDATION, CONVEYANCES OR SALES

Subdivision HEATHFIELD PHASE 1, MAP 1 (REVISED) County Mecklenburg
Address 6925 HEATH GLEN DRIVE Owner RYAN HOMES
Lot 5 Block ___ Plan AVALON Elevation B Drive (Left) Side (Right) ___ (Courtyard) ___ Deck X
Patio ___ Fireplace Rear Garage (1 Car) ___ (2 Car) X (3 Car) ___ Brick Front Basement ___ Curtain Wall X
Crawl ___ Slab ___ Other MORNING ROOM

REVISED: MODEL CHANGE DWN: CRB CKD: DATE: 03 / 16 /04

G:\HEATHFIELD\HF-0005.DWG - CRB

# RESIDENTIAL LOW PRESSURE T & J PANEL SEPTIC SYSTEM FOR SUBSURFACE WASTEWATER DISPOSAL

~~2521 HEATH LAKE~~ DRIVE

HEATHFIELD SUBDIVISION - LOT 5

6925 Heath Glen Drive

5059B

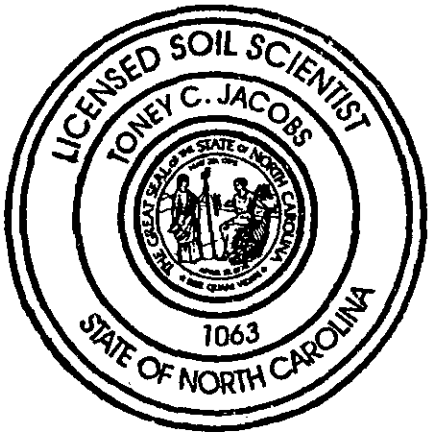
MCHD FILE # 5238B

For additional soil information refer to 5239B (enclosed)

Prepared for:
Ms. Kim Stanly
Ryan Homes
10815 David Taylor Drive
Charlotte, North Carolina 28027
and
Mr. Herb Jonkers
Rt. 2 Box 99E
Charlestown, West Virginia 25414

Prepared by:
Toney C. Jacobs & Associates, Inc.
168 Broadbill Drive
Mooresville, North Carolina 28117
office (704) 663-6905
fax (704) 662-9845
e-mail jacobs@i-america.net

May 5, 2004




Copy: Mr. Philo Walker, R.S.
Mecklenburg County Health Dept.-IWWS
700 N. Tryon Street
Charlotte, N.C. 28202

Toney C. Jacobs, CPSS, LSS

## BACKGROUND

Lot 5 Heathfield is in a new subdivision in Mecklenburg County. Mr. Bill Marlin, LSS, of the Mecklenburg County Health Department (MCHD), evaluated the soils on the lot. Mr. Marlin evaluated soils in a very limited area on the front of the lot, near Heath Lake Drive and found this to be provisionally suitable at a 0.25 gpd/ft$^2$ LTAR. This was approximately 25% of needed area.

Toney C. Jacobs & Associates also placed one backhoe pit on the area and concurred that it was provisionally suitable for a limited amount of line. The developer and builder have decided that an easement area on lot 6 (adjoining) could be used for the initial system and some repair. Appropriate maps and documentation for this easement have been prepared. Lot 6 has been previously permitted. The 20' separation between drainfield has been maintained.

TCJ & Associates flagged and laid out the proposed system. The site requirements were provided by Ryan Homes. Due to the limited available space on the lot and easement on lot 6, a T & J panel block system with 320 feet of line for the primary system and 356 feet for the required 100% repair is being used. The proposed system will be a Type IV and require a maintenance contract with a certified operator. As stated previously, each line of the proposed system is flagged in the field, as shown on the attached site plan.

## APPLICATION INFORMATION

1. Prepared for:
   Owners:

   Ryan Homes
   10815 David Taylor Drive
   Charlotte, North Carolina 28227

   Mr. Herb Jonkers
   Rt. 2 Box 99E
   Charlestown, West Virginia 25414

   Soil Scientists
   and Designers: Mr. Paul Penninger, LSS
   Toney C. Jacobs, CPSS, LSS
   Toney C. Jacobs & Associates, Inc.
   168 Broadbill Drive
   Mooresville, NC 28117
   (704) 663-6905 (Office)
   (704) 662-9845 (fax)
   E-mail jacobs@i-america.net

2. Water supply is provided by a public water system.

3. Facility to be served by the proposed system is a 4-bedroom single family residence.

LOCATION

The property is located on the right of Heath Lake Drive at Heath Glen Drive, the corner lot.

REFERENCES

Design and Installation of Low Pressure Pipe Waste Treatment Systems by: Craig Cogger, Bobby L. Carlile, Dennis Osborne, Ed Holland; published by UNC Sea Grant College Pub. UNC-SC-82-03, May 1982.

Law and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment Health and Natural Resources, August 1, 1998.

T & J Design Manual.

PLANS AND SPECIFICATIONS FOR SPECIFIC SYSTEM COMPONENTS

*Septic Tank*

1. The septic tank receives wastewater directly from the house.
2. A septic tank shall be watertight, structurally sound, and not subject to excessive corrosion or decay.
3. The septic tank must be of two-compartment design for maximum solids retention. The inlet compartment of two-compartment tank shall hold between two-thirds and three-fourths of the total tank capacity.
4. Effluent from the two-compartment septic tank flows by gravity through a State approved effluent filter and a four-inch solid PVC pipe to the pumping tank.
5. Both the septic tank and pumping tank must be provided with above ground approved manhole risers to provide easy access for clean-out and pump service.
6. When prefabricated concrete tanks or tanks of other material are used, they shall be constructed in accordance with the plans which have been approved by the State and shall comply with all requirements of Section .1953 of 15A NCAC 18A.
7. On the outlet tee of the septic tank an effluent filter must be installed. This filter should be equivalent to a Zabel Model A1800 or other State approved unit supplied by the tank manufacturer.

*Pumping Tank*

1. The pumping tank shall have an access manhole extending at least 6 inches above finished grade.
2. A septic tank effluent pump that will not be corroded by sewage shall be used in the pumping tank.
3. The pump must be placed on two concrete blocks set next to each other on the bottom

of the tank. This prevents the pumping of any solid particles that can clog the system.

4. A piece of nylon rope or other non-corrodible material should be attached to the pump and to the outlet pipe for lifting the pump in and out of the chamber.
5. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all time.
6. The pump outlet pipe should be connected to the supply manifold with a threaded PVC union to allow quick removal.
7. Pump and Simplex control circuits shall be provided with manual circuit disconnects within a watertight, corrosion-resistant, outside enclosure (NEMA 4X or equivalent) adjacent to the pump tank, securely mounted at least 12 inches above finished grade. Pump control (Simplex) may be mounted on side of house if long cord pump is used. The pump shall be manually operable without requiring the use of special tools or entrance into the tank for testing purposes. Conductors shall be conveyed to the disconnect enclosure through water proof, gas proof, and corrosion-resistant conduits, with no splices or junction boxes provided inside the tank. Wire grips, duct seal or other suitable material shall be used to seal around wire and wire conduit openings inside the pump tank and disconnect enclosure. There shall be two electric circuits for controls: one for pump power, one for the alarm. These will require 2 circuit breakers.
8. The pump tank shall have a properly functioning high-water alarm. The alarm circuit shall be supplied ahead of any pump overload and short circuit protective devices. It should be on a separate electrical circuit from the pump power line. The alarm shall be audible and visible by system users and included in the pump and control enclosure (Simplex Panel). The alarm is activated if the water level in the pump tank rises above the "pump-on" float control. The tank provides at least one day or more of excess storage capacity (depending on water use in the home) during which time the system must be repaired.
9. Float switch for the high water alarm shall be set no more than 3 inches above the high water level of pump cycle.
10. Float switch tie downs to be made of corrosion resistant material, no tape or metal hose clamps. For maintenance flexibility, tree must be used to set floats.
11. Watertight testing per .1900 rules shall be required on two piece pump tanks.
12. Wiring between the pumping tank and the house should meet State and local code requirements.

*Pipe and Fittings*

1. All pipes and fitting should be made of SCH 40 PVC.
2. All joints must be sealed with appropriate PVC-solvent cement.
3. There should be a threaded PVC union above the pump to allow easy removal or replacement.
4. A gate valve for final pressure adjustment is installed in the supply line inside the pumping tank.
5. Manifold and valve as shown in specifications.
6. Lateral lines are made of 1 1/4 inch SCH 40 PVC placed in T & J panels. Holes in laterals are drilled on-site.
7. The end of each lateral is equipped with a capped "turn-up" that provides above ground access for clean-out or back flushing of the laterals. Using (2) 45-degree

elbows rather than a 90-degree elbow for the turn-ups will make clean-out easier.

## CONSTRUCTION INSTALLATION

*Site Preparation*

1. One of the most important concerns for an on-site system is to protect the site from soil disturbance by heavy equipment. This site has been cleared and restaked. No equipment should be back on drainfields until installation of septic system.
2. Now that the absorption area has been designed and flagged, it should be roped off and protected from construction traffic.
3. The site is clear of brush and small trees. No site disturbance should be necessary. **Do Not Grade!**

*Tank Installation*

1. The two-compartment septic tank is installed.
2. The pumping tank is installed next to the septic tank.
3. The tanks are connected with an appropriate length of solid, four-inch PVC pipe.

*Supply Manifold*

1. The supply manifold conveys effluent from the pump to the distribution laterals.
2. Design of the manifold is shown on attached diagrams.
3. After the supply manifold has been placed in its trench and lateral lines connected, it should be backfilled with tightly tamped soil. The supply manifold trench must not be backfilled with gravel, or the trench may become a conduit for downslope flow effluent from the laterals.

*T & J Lateral Lines*

1. Install T & J Panels per cited reference material and this plan.
2. Trenches shall be 24" wide, and 8' minimum on center. This layout has a minimum 9' o.c. Trenches shall be "level" from end to end.
3. There should be one 5/32 inch hole near the center of each panel, pointed up. (Note this system uses five valves; one on each lateral.)
4. A short turn-up with a capped end is at the end of each lateral. The capped end must be brought up above or flush with the final grade. Using two 45-degree elbows for constructing cleanouts is recommended. A larger diameter sleeve with cap or approved box with lid shall be placed over the turn-up.

## PROPER OPERATION CHECK AND PRESSURE HEAD ADJUSTMENT

1. After all connections have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pump tank with a garden hose until the liquid rises to the level of the high-water alarm float.

2. Turn on the electrical power. The alarm light should go off when the liquid level falls below the high-water float. The pump should turn off when the liquid reaches the lowest float control. Be sure the pump is still completely submerged.
3. The pressure head is measured as the height liquid will rise above the turned-up elbow when the pump is running. To set or check the pressure head:

    - Glue a three-foot length of pipe (preferable clear) to a threaded adapter that will screw onto the turn-ups at the end of each lateral.
    - Replace each turn-up cap with the pipe and adapter.
    - Turn the power on to allow liquid to rise in the pipe.
    - Adjust the gate valves until the effluent reaches the desired height in the pipe. Remember to include the distance below the ground surface to the lateral line when measuring the height.

## FINAL LANDSCAPING

1. After the system is installed, the following should be checked to ensure that the system will not be overloaded with excess rainwater and runoff:
    - The distribution field is shaped to shed rainwater and is free of low areas.
    - Grassy swales or ditches for diverting surface water are properly installed.
    - Gutter and downspout drains are directed away from the system.

2. Finally, the entire area should be planted with grass in order to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized before planting. After applying an appropriate grass seed, the area should be heavily mulched with straw or other suitable material.

## QUALITY ASSURANCE REQUIREMENTS

The system must be installed by a qualified, contractor that is on the Mecklenburg County list of competent contractors. Critical stages of the installation, which should be checked, are:

1. System layout
2. Septic and pump tank installation prior to backfilling.
3. Manifold and lateral installation prior to backfilling.
4. Final landscaping, operation and pressure head check.

The system design is based on a maximum waste flow of 480 gallons per day. Homeowners should pay particular attention to the section titled Homeowner Suggestions for ways to minimize the burden on the system.

## OPERATION AND MAINTENANCE PROCEDURE

The system is classified as **Type IV and DOES require a maintenance contract** with a certified operator. The contract shall be executed between the system owner and a management entity prior to the issuance of an Operation Permit. The contract shall include the specific requirements for maintenance and operation, responsibilities of the owner and system operator, and provisions that the contract shall be in effect for as long as the system in use.

Operating, Maintenance and Inspection procedures shall include, but not be limited to the following:

- Minimum inspection/maintenance frequency shall be 2 times per year, with reporting frequency every 6 months to the local health department.
- Septic system shall be pumped every 4 years or when solids accumulate to 1/3 the volume of the tank.
- At 6-month intervals, inspect the effluent filter. When washing the filter, debris must be sprayed directly back into the septic tank and not onto the lawn.
- All laterals shall be checked and if necessary, flushed annually with clean water.
- Pressure head for laterals should be checked and adjusted one month after installation and semi-annually thereafter.
- All piping and fittings shall be checked annually for damage and/or proper operation and corrections made immediately.
- The property should be inspected to insure all surface water is diverted away from the fields and tank. Any ponding of surface water should be corrected.
- Grasses shall be mowed and maintained and any erosion shall be corrected promptly.
- The nitrification field area shall be checked for leakages, blowouts or malfunction, indications of damp or mushy areas compared to surrounding area or evidence of noticeable odor of sewage. Repairs shall be made immediately.
- The pump electrical should be checked to insure tight, clean connections with no corrosion and proper operation.
- Pump switches shall be checked for free operation and proper level set.
- Pump draw down depth and delivery rate shall be checked each year.
- Check septic tank and pump tank for evidence of damage or leakage. Check the quality of effluent including grease and sludge accumulation.

The system operator, in conjunction with the local Health Department shall establish an operation and maintenance program and procedure based on experience obtained from similar installations.

## HOMEOWNER SUGGESTION

Most systems do not require much effort to operate and maintain. Even though the effort is small, the system must be maintained properly so that it operates reliably and at a minimum cost. Following are suggestions for the homeowner to minimize the burden on the septic system.

1. Garbage disposals should not be used in on-site systems. The ground garbage adds large amounts of solids to a septic tank, causing sludge to build up at a quicker rate than without. If disposal is installed, use should be limited.
2. Grease, cooking oils and coffee grounds should never be put into a septic tank.
3. Items such as disposable diapers, cigarettes, facial tissues and other solid or paper wastes should not be flushed into the on-site system.
4. Used motor oil and other such oily liquids should not be put into a septic tank.
5. Using less water can reduce the amount of water flowing to the treatment and disposal field.
6. Water-saving fixtures and devices can be installed on sinks, toilets and showers to reduce the rate at which the water flows from the fixture.
7. Dishwashers and washing machines should only be run with full loads.
8. Leaky faucets and toilets can add large volumes of water to the daily flow of water into the on-site system. Repair the leaks to save water and give the treatment and disposal field a rest.
9. Roof drains, basement sump pumps, foundation drains, and other such drains should not empty into or onto the surface above the on-site system. These drains should be directed to another part of the lot away from the treatment and disposal field.

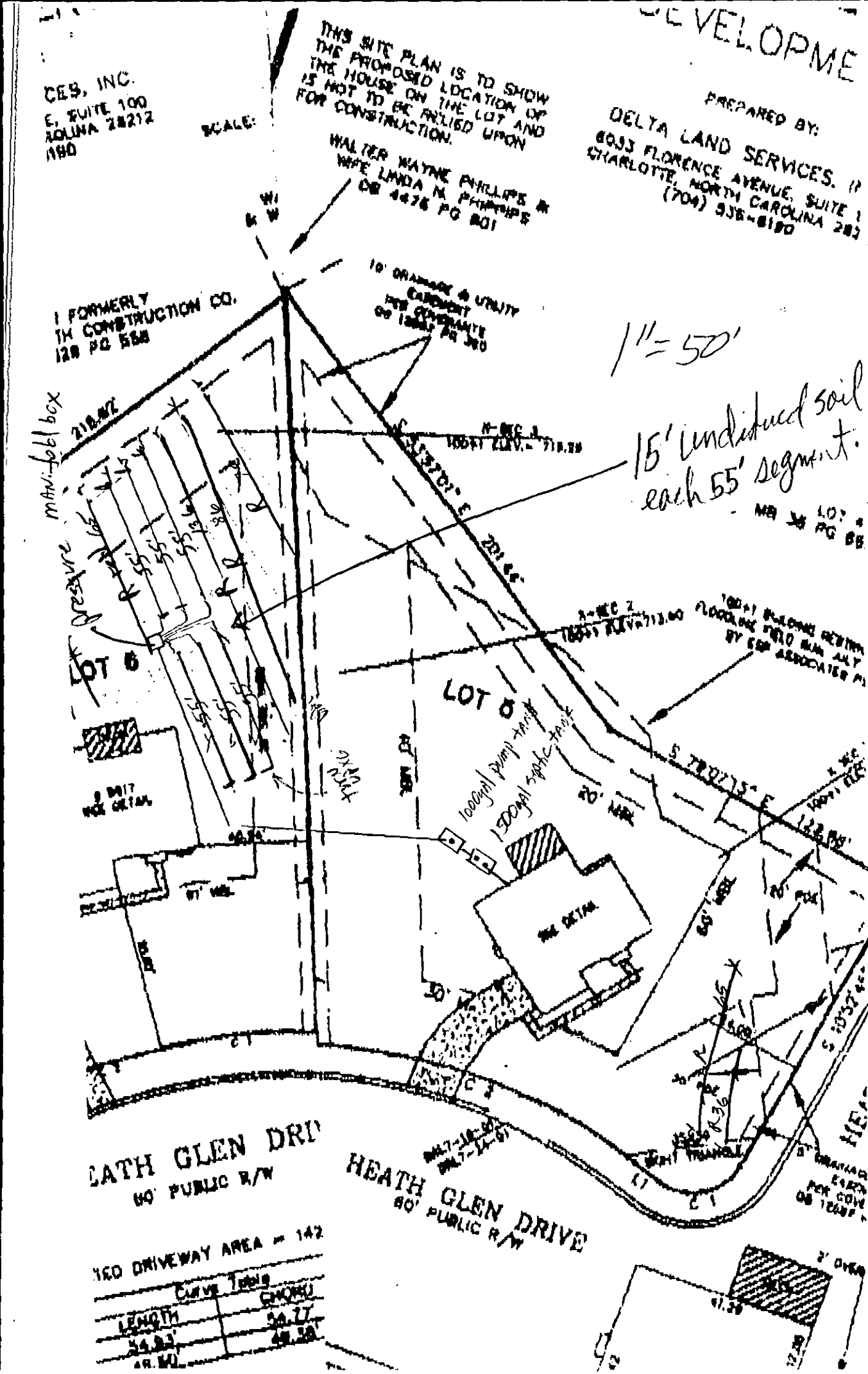
## DESIGN SPECIFICATIONS (Lot 6 Heathfield Subdivision)

| | |
|---|---|
| Daily design flow: | 480 gpd. |
| Septic tank size: | 1500 gal. (2 compartments) |
| Pumping tank size: | 1000 gal. |
| Effluent loading rate, Initial system | 0.25 gpd/ft$^2$ |
| Effluent loading rate, Repair system | 0.225 gpd/ft$^2$ |
| Total length and diameter of supply pipe: | approx. 160 ft. 2" SCH 40 PVC) |
| Number and length of laterals: | 6 end-fed, 3 @55' (1¼ SCH 40 PVC total 330') |
| Hole size: | 5/32" |
| Hole spacing: | 1 per panel |
| Total number of holes: | 72 (one in each T & J Panel near the center with the hole turned up) (approx. 1 panel per 54" of run) |
| Flow rate through the system: | 36 gpm |
| Elevation head: | Approx. 9.0' |
| Pressure head: | 3.0' |
| Friction head: | 2.0' |
| 20% contingency | 3.0' |
| Total head: | 17' |
| Pump requirements: | 36 gpm at 17.0' of head; use Goulds WEO 3M pump or equivalent with compatible electrical |
| Dosing volume: | 240 gal. – 2.0 doses/day at design flow* |
| Depth of water pumped per dose: | calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.) |
| Pump run per dose: | approx. 7.1 min |
| Check valve: | No |
| Siphon break hole: | No |

* 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 top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.

# LIST OF ATTACHMENTS

1. Site Plan
2. Pump curve
3. Gate valve box detail
4. Pump tank detail
5. Trench detail


DEVELOPME
CES, INC.
E, SUITE 100
ROLINA 28212
1180
SCALE:
THIS SITE PLAN IS TO SHOW THE PROPOSED LOCATION OF THE HOUSE ON THE LOT AND IS NOT TO BE RELIED UPON FOR CONSTRUCTION.
PREPARED BY:
DELTA LAND SERVICES, I
6053 FLORENCE AVENUE, SUITE
CHARLOTTE, NORTH CAROLINA 282
(704) 536-6180
WALTER WAYNE PHILLIPS &
WIFE LINDA M. PHILLIPS
DB 4476 PG 801
FORMERLY
TH CONSTRUCTION CO.
128 PG 558
10' DRAINAGE & UTILITY
EASEMENT
PER COVENANTS
DB 12881 PG 360
1" = 50'
15' undisturbed soil between each 55' segment. Pipe in middle
manhole
pressure tank
LOT 6
LOT 5
1000gal pump tank
1000gal septic tank
20' MBL
S 78°01'13" E
128.89'
N 10°32'46" E
R=36'
L1
L2
L3
L4
HEATH GLEN DRIVE
60' PUBLIC R/W
HEATH GLEN DRIVE
60' PUBLIC R/W
DRIVEWAY AREA = 142
Curve Table
LENGTH
CHORD
34.27'
45.38'
41.38'

GOULDS PUMPS

# Submersible Effluent Pump

**MODEL**

# 3885

**PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.**



## APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

## SPECIFICATIONS

**Pump**

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

## FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

## MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ **Class B insulation.**

**Single phase:**

- Built-in overload with automatic reset.
- All single phase models feature capacitor start motors for maximum starting torque.
- ⅓ and ½ HP – 16/3 SJTOW with 115 V or 230 V three prong plug.
- ¾-2 HP – 14/3 STOW with bare leads.

**Three phase:**

- Overload protection must be provided in starter unit.
- ½-2 HP – 14/4 STOW with bare leads.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. 20 foot standard with optional lengths available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

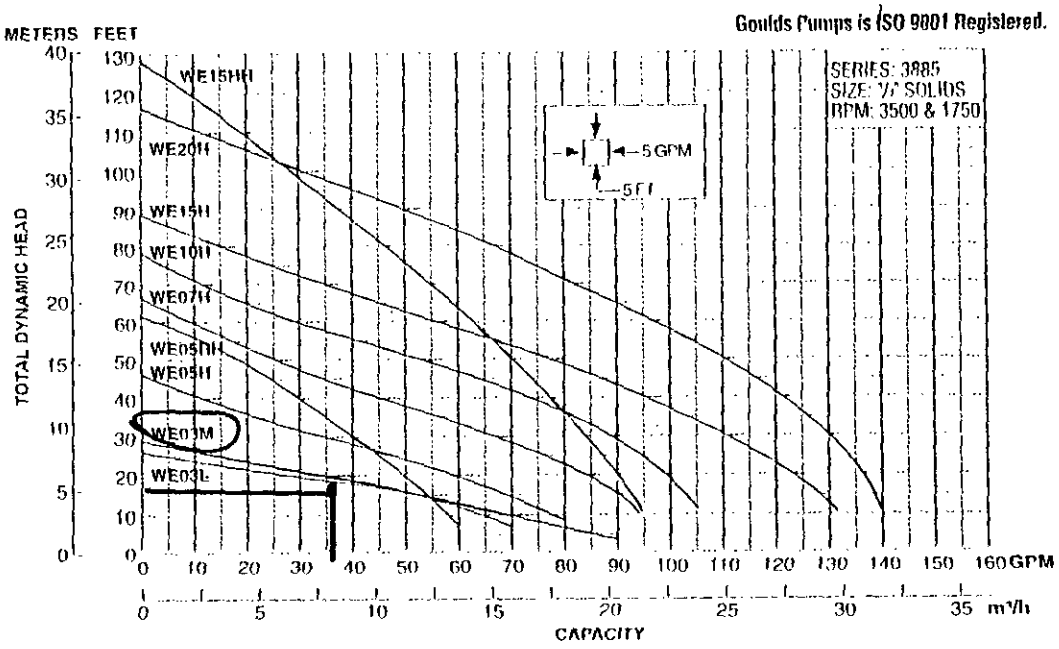
■ Consult factory for information on CSA listed models.

## AGENCY LISTINGS

Canadian Standards Association File #LR38519

Underwriters Laboratories File #83316

Goulds Pumps is ISO 9001 Registered.

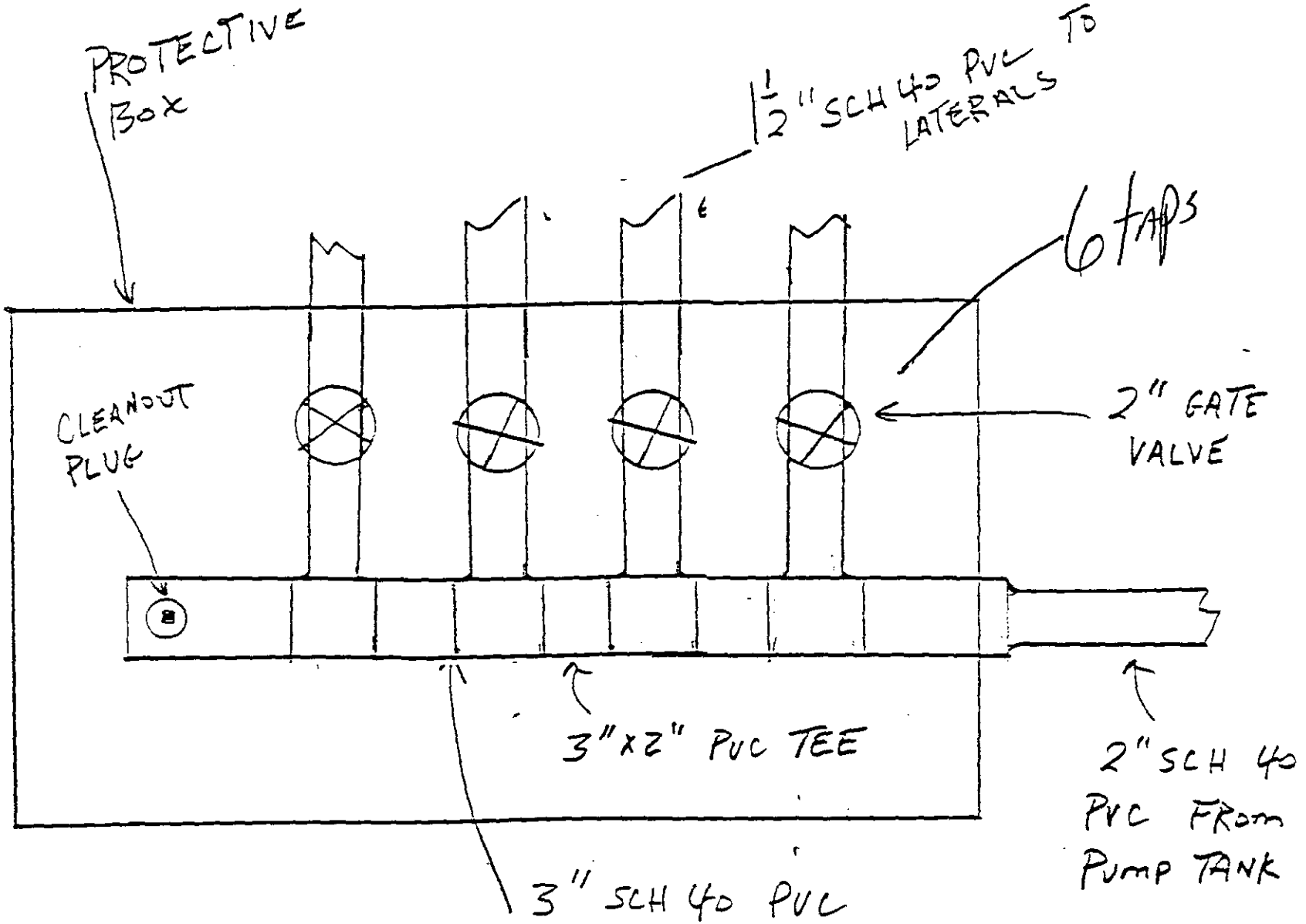



Goulds Pumps

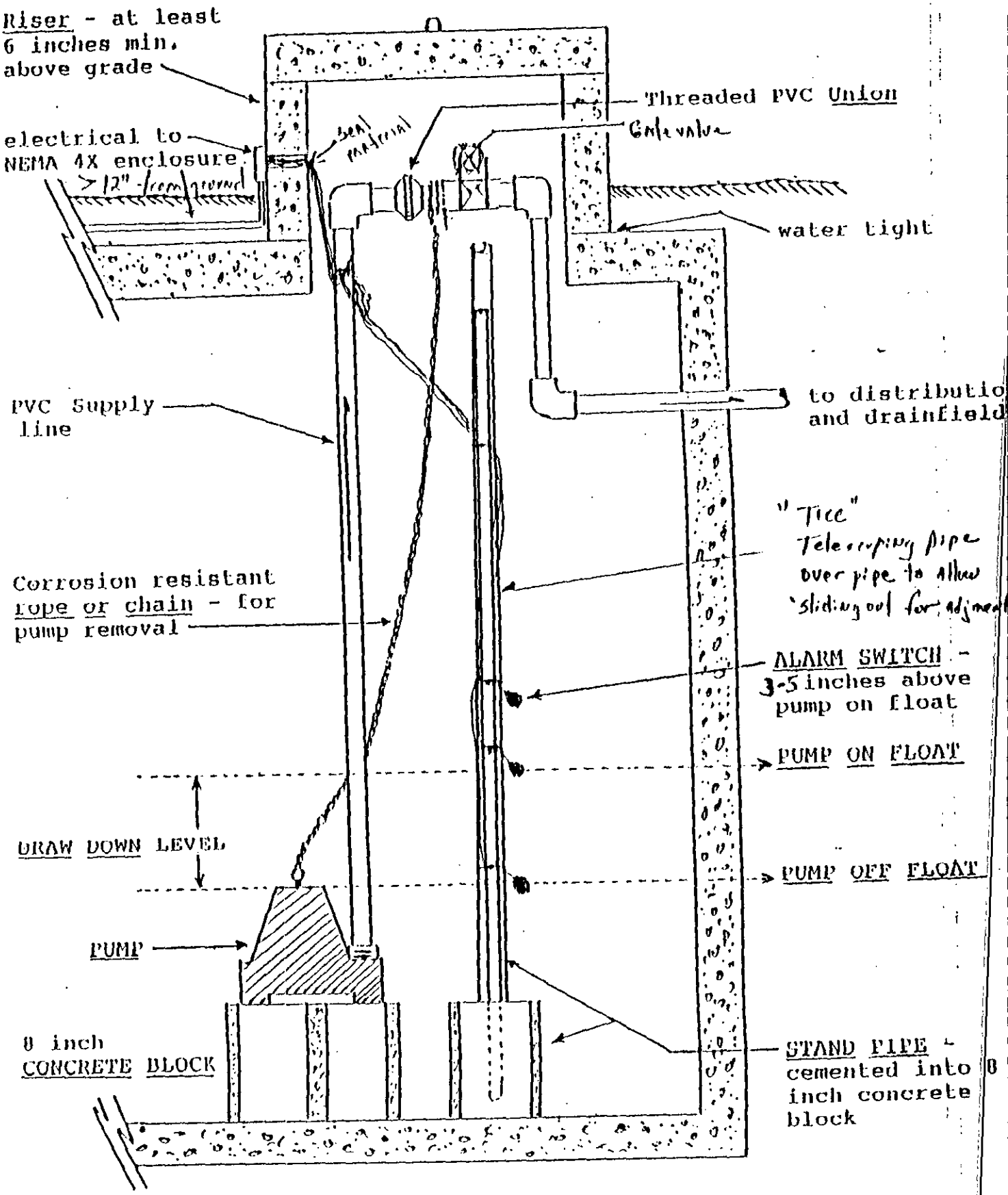
ITT Industries

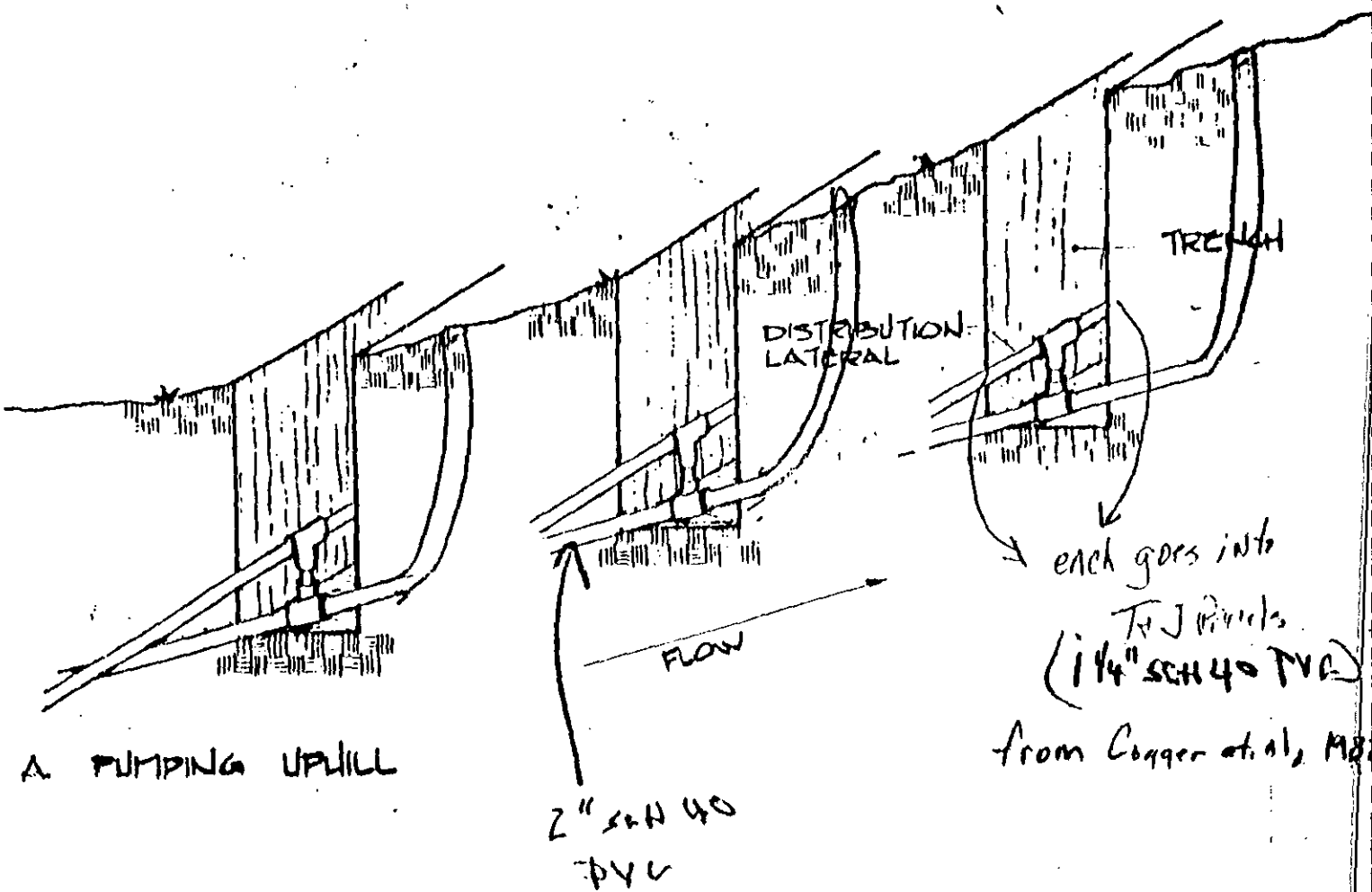
© 1999 Goulds Pumps
Effective January, 1999
B3885

# CENTRAL VALVE BOX DETAIL



PUMP DIAGRAM






A. PUMPING UPHILL

2" SCH 40 PVC

(1 1/4" SCH 40 PVC

from Cooper et al, M

# MECKLENBURG COUNTY
## Health Department

December 26, 2002

NVR Inc. DBA Ryan Homes
10815 David Taylor Drive
Charlotte, NC 28262

Re: Application for improvement permit for
Property Site: 6925 Heath Glen Drive, lot 5 Heathlake
Health Department file no. 5059B

Dear Property Owner or Owner's Agent:

The Mecklenburg County Health Department, Environmental Health Division on October 4, 2002 evaluated the above-referenced property at the site designated on the plat/site plan that accompanied your improvement permit application. According to your application the site is to serve a 4-bedroom residence, with a design wastewater flow of ___480___gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes and Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .1900 and related rules.

Based on the criteria set out in Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rules .1940 through .1948, the evaluation indicated that the site is **UNSUITABLE for** a ground absorption sewage system. Therefore, your request for an improvement permit is **DENIED.** A copy of the site evaluation is enclosed. The site is unsuitable based on the following:

_____Unsuitable soil topography and/or landscape position (Rule .1940)
___X___Unsuitable soil characteristics (structure or clay mineralogy) (Rule .1941)
_____Unsuitable soil wetness condition (Rule .1942)
___X___Unsuitable soil depth (Rule .1943)
_____Presence of restrictive horizon (Rule .1944)
_____Insufficient space for septic system and repair area (Rule .1945)
_____Unsuitable for meeting required setbacks (Rule .1950)
_____Other (Rule .1946)

For the reasons set out above, the property is currently classified **UNSUITABLE,** and an improvement permit shall not be issued for this site in accordance with Rule .1948 (c).

However, the site classified as **UNSUITABLE** may be classified as **PROVISIONALLY SUITABLE** if written documentation is provided that meets the requirements of Rule .1948(d). A copy of this rule is enclosed. You may hire a consultant to assist you if you wish to try to develop a plan under which your site could be reclassified as **PROVISIONALLY SUITABLE.**

You have a right to an informal review of this decision. You may request an informal review by the soil scientist or environmental health supervisor at the local health department. You may also request an informal review by the N. C. Department of Environment and Natural Resources regional soil specialist. A request for informal review must be made in writing to the local health department.

Environmental Health Division
700 N. Tryon Street, Suite 211, Charlotte, North Carolina 28202-2236

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 6714 Mail Center, Raleigh, NC 27699-6714. To get a copy of a petition form, you may write the Office of Administrative Hearings or call the office at (919) 733-0926. The petition for a contested case hearing must be filed in accordance with the provision of North Carolina General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. N. C. General Statue 130A-335(g) provides that your hearing would be held in the county where your property is located.

Please note: If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is December 26, 2002. Meeting the 30-day deadline is critical to your right to a formal appeal. Beginning a formal appeal within 30 days will not interfere with any informal review that you might request. Do no wait for the outcome of any informal review if you wish to file a formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, you are required by law (N.C. General Statute 150B-23) to send a copy of your petition to the North Carolina Department of Environment and Natural Resources. Send the copy to: Office of General Counsel, N. C. Department of Environment and Natural Resources, 1601 Mail Service Center, Raleigh, NC. 27699-1601. Do **NOT** send the copy of the petition to your local health department. Sending a copy of your petition to the local health department will **NOT** satisfy the legal requirement in N.C. General Statute 150B-23 that you send a copy to the Office of General Counsel, NCDENR.

You may call or write the local health department if you need any additional information or assistance.

Sincerely,

Joshua R. Sellers R.S.

Joshua R. Sellers, R.S.
Authorized Agent - DENR

Encl: (2)

FEE: 520.00 CK

DATE: 8/31/12 SC 748825

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 #: 505498

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION: 195-02-41

TAX/PARCEL NUMBER: ~~195-07-160~~

STREET ADDRESS: 10925 Heath Glen Dr.

SUBDIVISION OR MOBILE HOME PARK NAME: Heathfield

LOT NUMBER: 5

TYPE OF BUILDING (CHECK ONE):

__ SINGLE MOBILE HOME(S)
__ DOUBLE WIDE (D)
X 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
X 7 MINT HILL

HEATED SQUARE FOOTAGE: 3803

NUMBER OF BEDROOMS: 4 | NUMBER OF OCCUPANTS:

CLOSING DATE

.82

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT ON SLAB
X CRAWL SPACE
__ WITH BASEMENT /PLUMBING
__ WITH BASEMENT /NO PLUMBING

Pool Yes (No)

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

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: __ YES X NO TYPE:

WATER SUPPLY (CHECK ONE):

X COMMUNITY (C)
__ SHARED WELL (S)
__ MUNICIPAL (M)
__ OTHER 'SPRINGS' (O)
__ PRIVATE WELL (P)

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

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

PROPERTY OWNER: NVR, INC dba Ryan Homes

NAME: (LAST) (FIRST) (MI)

ADDRESS: 10815 David Taylor Dr

CITY Charlotte STATE: NC ZIP: 28262

DAYTIME PHONE: 704 - 548-3534

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

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 this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as "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: Kim Mat DATE: 8/26/12

HF1005

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

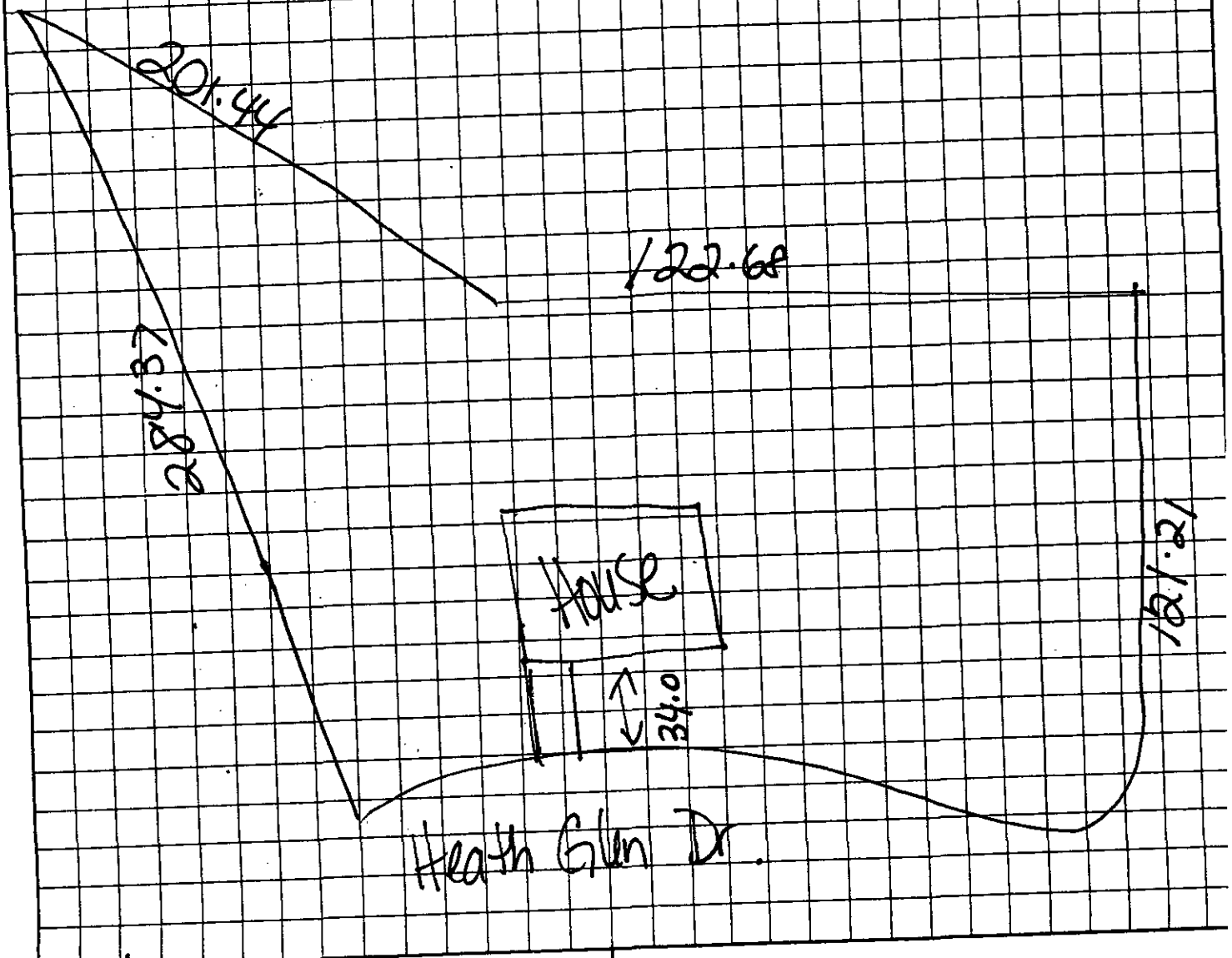
COPY

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

FILE: 5059B

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.




Kim Hart — NVR Inc d/b/a Ryan Homes
OWNER/AGENT SIGNATURE

DATE 8/26/14

APPROVAL DATE _____

White - Health Department's Copy

HE 1005

Canary - E.H.S. Copy

Pink - Owner's Co

HF1005

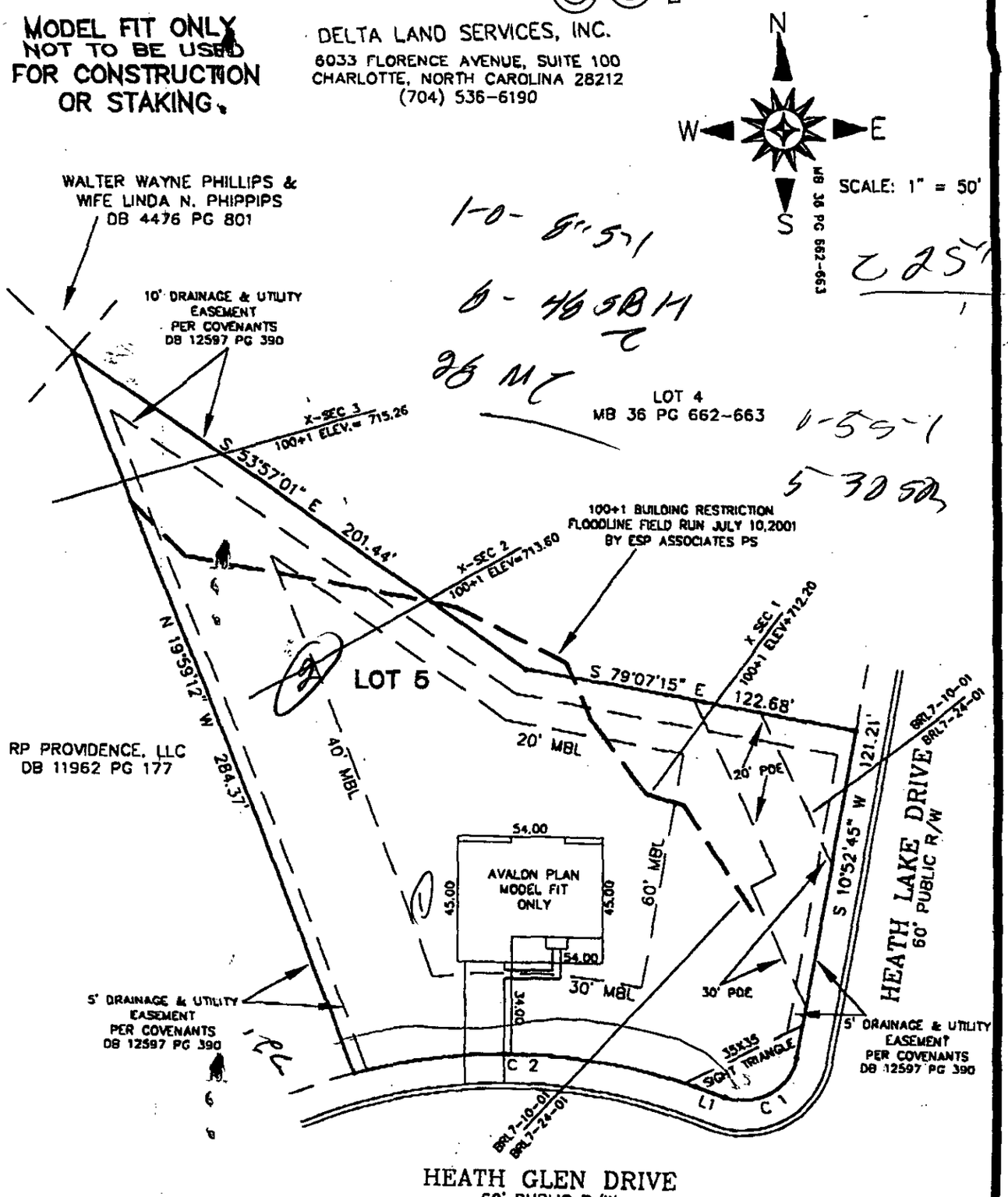
# PROPOSED MODEL FIT

COPY

PREPARED BY:

**MODEL FIT ONLY NOT TO BE USED FOR CONSTRUCTION OR STAKING.**

DELTA LAND SERVICES, INC.
6033 FLORENCE AVENUE, SUITE 100
CHARLOTTE, NORTH CAROLINA 28212
(704) 536-6190




| Line Table | | |
|---|---|---|
| Line | Length | Bearing |
| L1 | 11.03' | N 70°16'38" W |

| CURVE TABLE | | | | | |
|---|---|---|---|---|---|
| Curve | Radius | Length | Chord | Bearing | Delta |
| C 1 | 20.00' | 34.50' | 30.38' | S 60°18'03" W | 98°50'38" |
| C 2 | 210.00' | 128.59' | 126.59' | N 87°49'10" W | 35°05'04" |

**NOT FOR RECORDATION, CONVEYANCES OR SALES**

Subdivision HEATHFIELD, PHASE 1, MAP 1 (REVISED) County MECKLENBURG
Address 6925 HEATH GLEN DRIVE Owner RYAN
Lot 45 Block ___ Plan AVALON Elevation A Drive (Left) X (Right) ___ (Courtyard) ___ Deck ___
Patio ___ Fireplace ___ Garage (1 Car) ___ (2 Car) X (3 Car) ___ Brick ___ Basement ___ Curtain Wall ___
Crawl X Slab ___ Other ___

REVISED: DWN: JA CKD: CW DATE: 08 / 23 / 02

G:\HEATHFIELD\HF-0005.DWG - JA

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

Sheet: 1 071-0290
Property ID: 195-~~072-44~~
Lot #: 5
File #: 5059B
Code: 3

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: NVR, Inc. dba Ryan Homes
Applicant:
Address: 10815 David Taylor Drive, Charlotte, N. C. 28262
Date Evaluated: 10/04/2002
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .82a
Location of Site: 6925 Heath Glen Drive
Property Recorded:
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 8 | 0-8 | GR/SCL | FR/SEXP/SS/SP | >48" TO SOIL WETNESS | 48 | N/A | NONE | PS, IV |
| | | 8-48 | SBK/C | FI/SEXP/S/P | | | | | .25GPD/FT$^2$ |
| 2 | " | 0-5 | GR/SCL | FR/SEXP/SS/SP | >36" TO SOIL WETNESS | 36 | " | " | PS, IV |
| | | 5-36 | SBK/SC | FI/SEXP/S/P | | | | | .2GPD/FT$^2$ |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | US | US |
| System Type(s) | | |
| Site LTAR | .225GPD/FT$^2$ | .225GPD/FT |

Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 10/7/02, W. R. Marlin
Others Present:

FILE # 50598

## COMMENTS 100% Repair

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

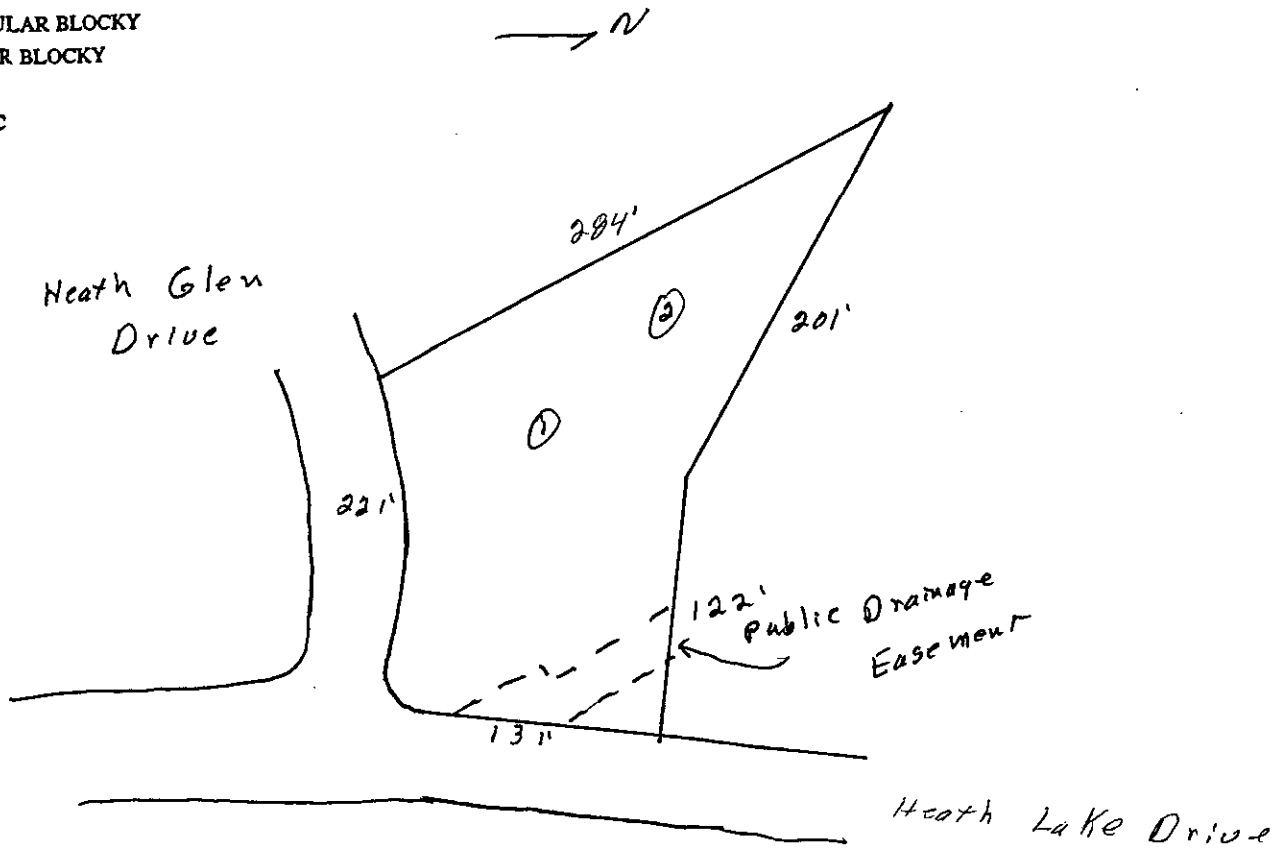
### STRUCTURE

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

### MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



FEE: 520.00 CK

DATE: 8/31/12 748825

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 #: 505590

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 195-07-072.44

STREET ADDRESS: 10925 Heath Glen Dr.

SUBDIVISION OR MOBILE HOME PARK NAME: HEATHFIELD

LOT NUMBER: 5

TYPE OF BUILDING (CHECK ONE):

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

HEATED SQUARE FOOTAGE: 3803

NUMBER OF BEDROOMS: 4 NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

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

TOWNSHIP (CHECK ONE):

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

CLOSING DATE_____

Pool Yes (No)

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

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

WATER SUPPLY (CHECK ONE):
X 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 X NO
EXISTING WASTEWATER SYSTEMS ___ YES X NO
EASTMENTS OR RIGHT-OF-WAYS X YES ___ NO
WELL, SPRINGS OR WATERLINES X YES ___ NO
DESIGNATED WETLANDS X YES ___ NO

PROPERTY OWNER: NVR, INC dba Ryan Homes

NAME: (LAST) (FIRST) (MI)

ADDRESS: 10815 David Taylor Dr

CITY Charlotte STATE: NC ZIP 28262

DAYTIME PHONE: 704 - 548-3534

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

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: Kim Mat DATE: 8/26/12

HF1005

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

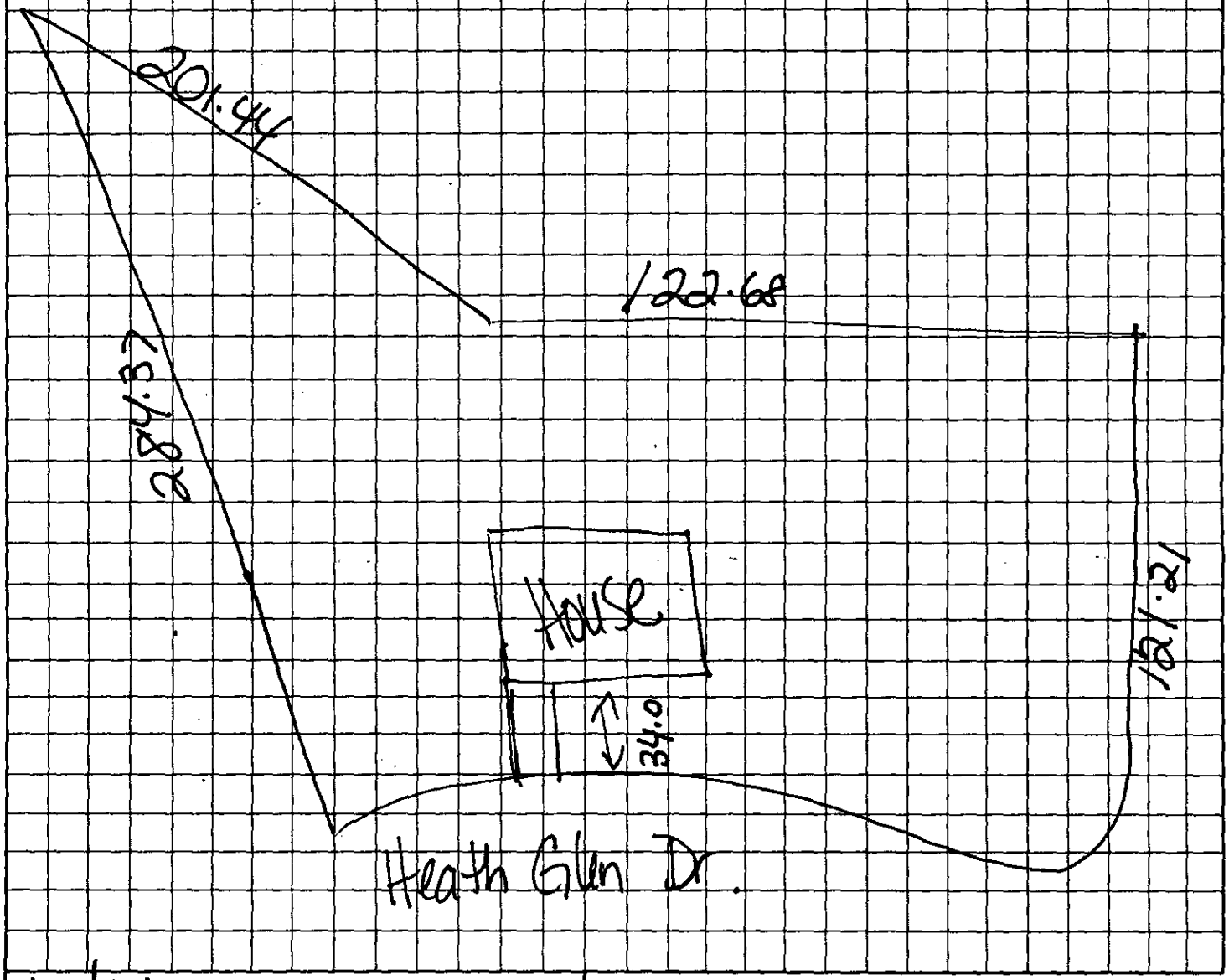
# PROPOSED PLOT PLAN

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

FILE: 5059B

TC: 195.072.41

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.




Kim Mest — NVR Inc d/b/a Ryan Homes
OWNER/AGENT SIGNATURE

DATE 8/26/12

APPROVAL DATE _____

White - Health Department's Copy HF 1005 Canary - E.H.S. Copy Pink - Owner's Copy

HF1005

5059B

# PROPOSED MODEL FIT

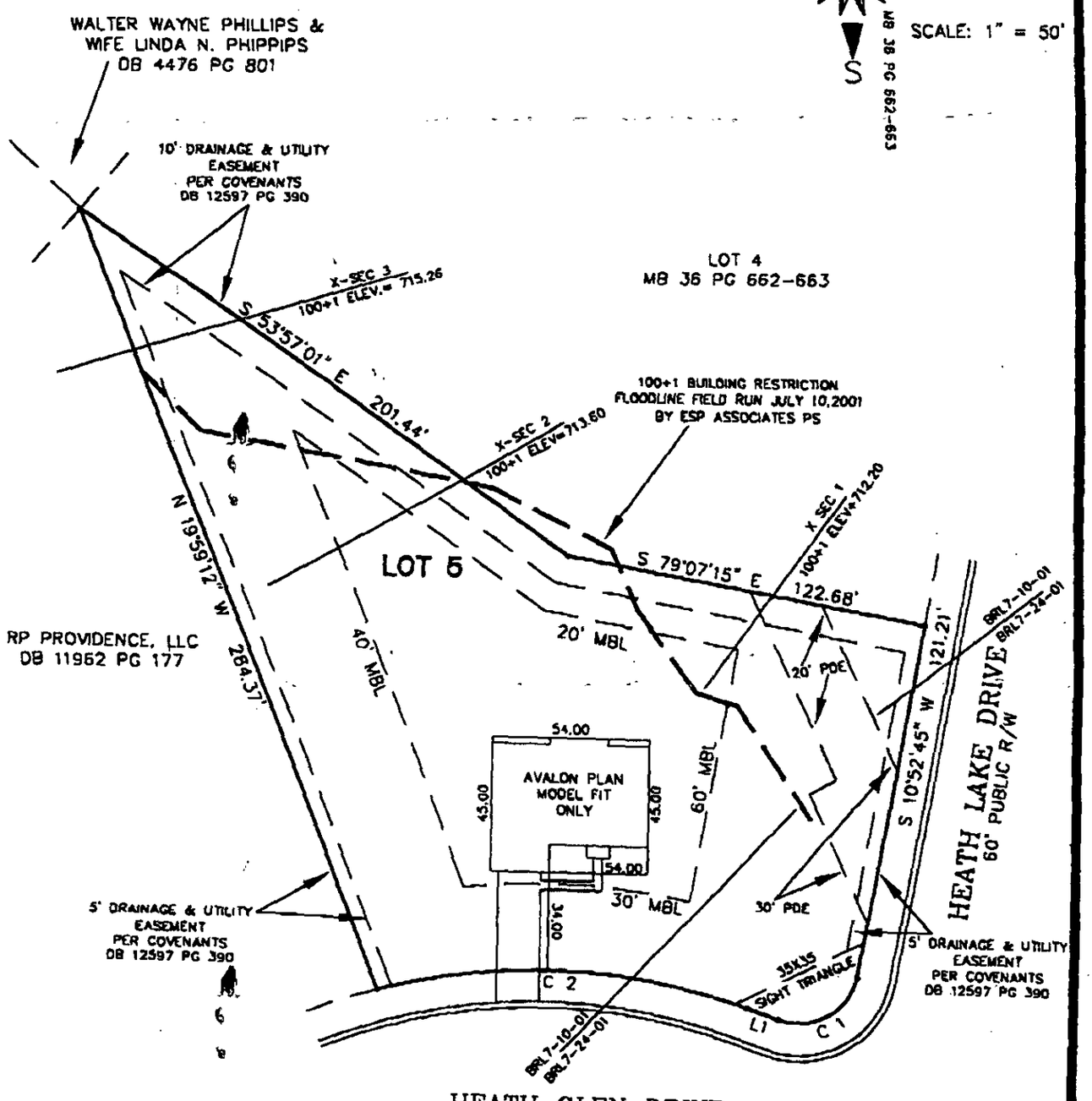
PREPARED BY:

**MODEL FIT ONLY NOT TO BE USED FOR CONSTRUCTION OR STAKING.**

DELTA LAND SERVICES, INC.
6033 FLORENCE AVENUE, SUITE 100
CHARLOTTE, NORTH CAROLINA 28212
(704) 536-6190

N W E S

SCALE: 1" = 50'




| Line Table | | |
|---|---|---|
| Line | Length | Bearing |
| L1 | 11.03' | N 70°16'38" W |

| CURVE TABLE | | | | | |
|---|---|---|---|---|---|
| Curve | Radius | Length | Chord | Bearing | Delta |
| C 1 | 20.00' | 34.50' | 30.38' | S 60°18'03" W | 98°50'38" |
| C 2 | 210.00' | 128.59' | 126.59' | N 87°49'10" W | 35°05'04" |

**NOT FOR RECORDATION, CONVEYANCES OR SALES**

Subdivision HEATHFIELD, PHASE 1, MAP 1 (REVISED)
Address 6925 HEATH GLEN DRIVE County MECKLENBURG
Lot 45 Block ___ Plan AVALON Elevation A Drive (Left) X (Right) ___ Owner RYAN
Patio ___ Fireplace ___ Garage (1 Car) ___ (2 Car) X (3 Car) ___ Brick ___ Basement ___ Curtain Wall ___
Crawl X Slab ___ Other ___

REVISED:

DWN: JA CKD: CW DATE: 08 / 23 / 02

C:\HEATHFIELD\HF-0005.DWG - JA

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

Sheet: 1
Property ID: 195-072-41
Lot #: 5
File #: ~~5238B~~ 5059B
Code: 2

ACS

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: NVR, Inc. dba Ryan Homes
Applicant:
Address: 10815 David Taylor Drive, Charlotte, N. C. 28262
Date Evaluated: 10/28/2003
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .82a
Location of Site: ~~2521 Heath Lake Drive~~ 6925 Heath Glen Drive
Property Recorded:

Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 8 | 0-4 | GR/CL | FR/SEXP/SS/SP | >49" TO SOIL WETNESS | 49 | N/A | NONE | PS, IV |
| | | 4-49 | SBK/ABK/C | FI/SEXP/S/P | | | | | .25GPD/FT$^2$ |
| 2 | " | 0-6 | GR/CL | FR/SEXP/SS/SP | >39" TO SOIL WETNESS | 39 | " | " | US, IV |
| | | 6-33 | SBK/ABK/C | FI/SEXP/S/P | | | | | |
| | | 33-39 | ABK/PL/C | " | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | US | US |
| System Type(s) | | |
| Site LTAR | | |

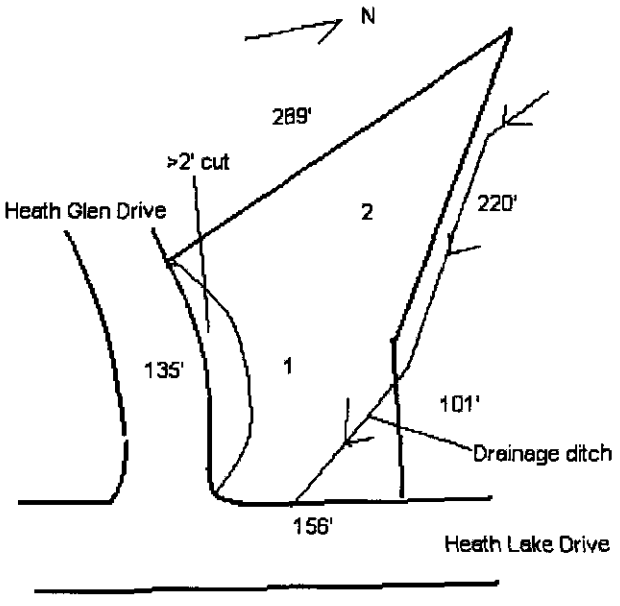
Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 10/30/2003 W. R. Marlin
Others Present:

FILE # 5238B

## COMMENTS: 100% repair

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

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



FEE: ~~200~~ 00 CHK

DATE: 5/9/03

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 #: ~~52380~~ 50590

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 195071-02

STREET ADDRESS: Heath Lake Dr (Heath Glen Dr)

SUBDIVISION OR MOBILE HOME PARK NAME: HEATHFIELD

LOT NUMBER: 5

TYPE OF BUILDING (CHECK ONE):

___ SINGLE MOBILE HOME(S)
___ DOUBLE WIDE (D)
X 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
X 7 MINT HILL

HEATED SQUARE FOOTAGE: 3500

NUMBER OF BEDROOMS: 4 NUMBER OF OCCUPANTS:

CLOSING DATE: ____

FOUNDATION FOR RESIDENCE:

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

Pool Yes (No) Corner Lot

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

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: ___ YES X NO TYPE: ____

WATER SUPPLY (CHECK ONE):

X 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 X NO
EXISTING WASTEWATER SYSTEMS — ___ YES X NO
EASTMENTS OR RIGHT-OF-WAYS — X YES ___ NO
WELL, SPRINGS OR WATERLINES — X YES ___ NO
DESIGNATED WETLANDS — X YES ___ NO

PROPERTY OWNER: NVR, INC dba Ryan Homes

NAME: (LAST) (FIRST) (MI)

ADDRESS: 10815 David Taylor Dr

CITY Charlotte STATE: NC ZIP: 28262

DAYTIME PHONE: 704 - 548-3534

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) —

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: Kathleen A Warner DATE: 5-6-03

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

# PROPOSED PLOT PLAN

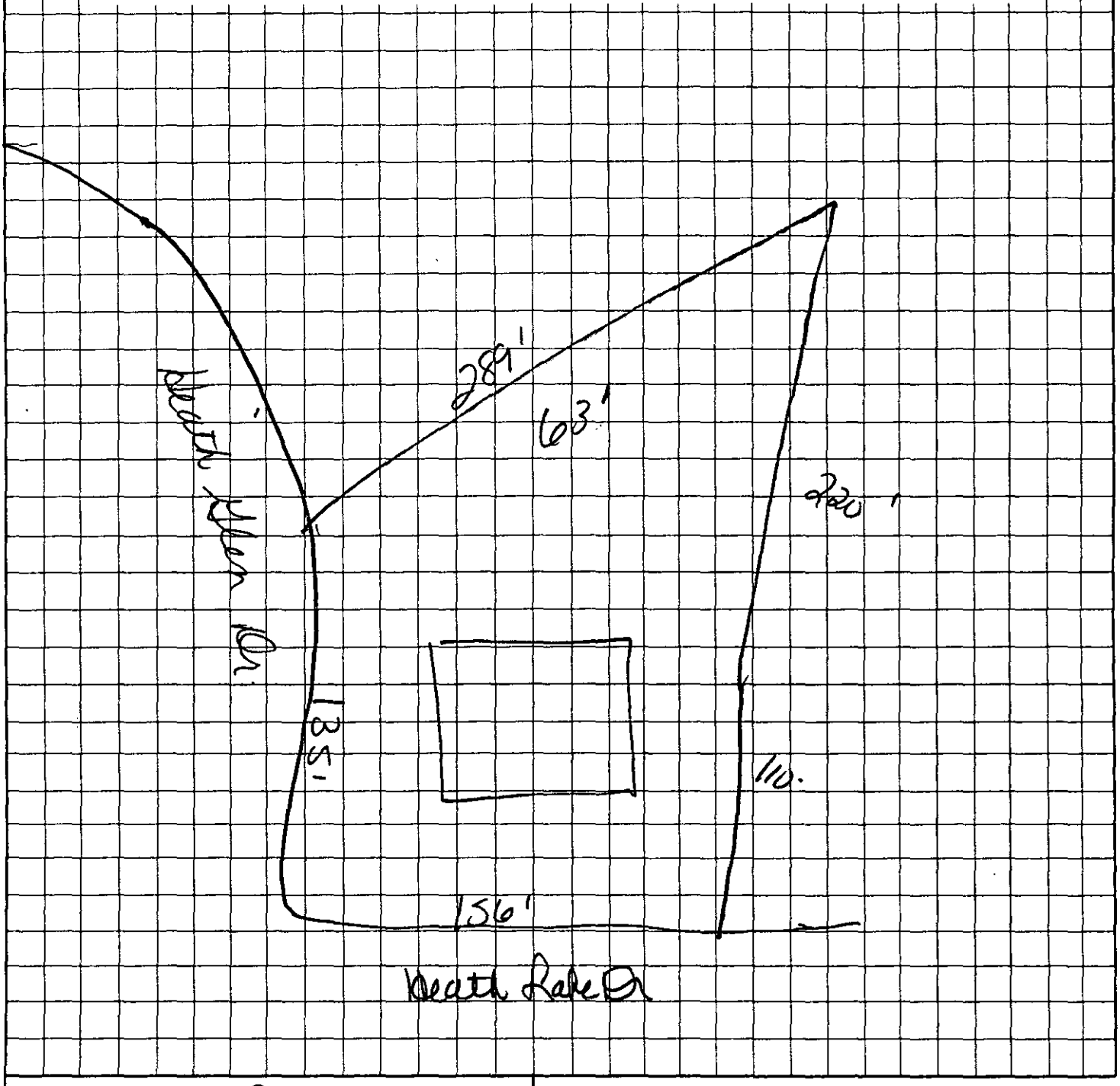
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

Parcel # 195071-02

FILE: 5059B ~~5238~~

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.




WLR, LLC dba Ryan Homes
OWNER/AGENT SIGNATURE

DATE 5/6/03

APPROVAL DATE _____

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

HF1004

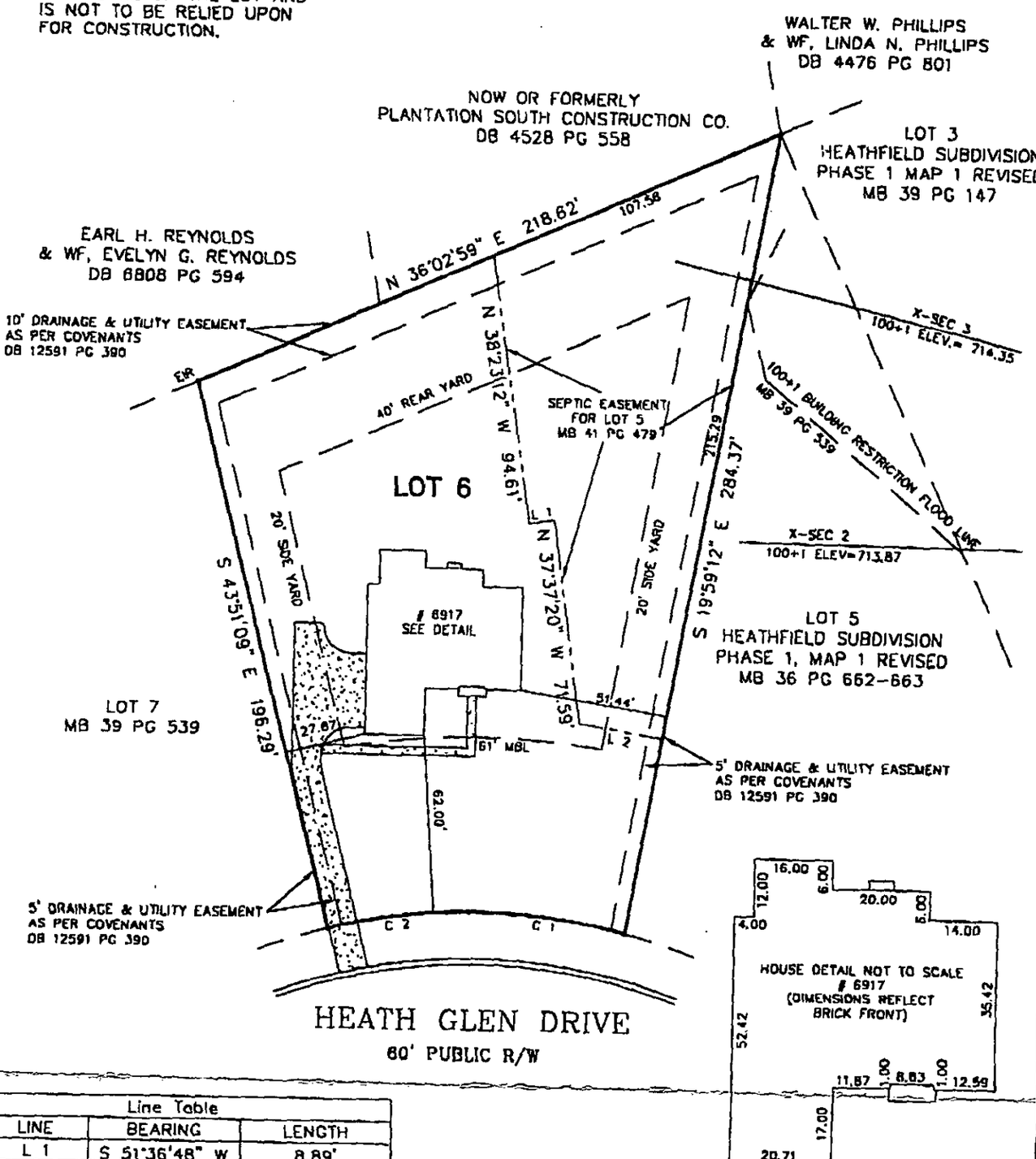
# SITE DEVELOPMENT PLAN

PREPARED BY:

DELTA LAND SERVICES, INC.
6033 FLORENCE AVENUE, SUITE 100
CHARLOTTE, NORTH CAROLINA 28212
(704) 536-6190

SCALE: 1"=50'

THIS SITE PLAN IS TO SHOW THE PROPOSED LOCATION OF THE HOUSE ON THE LOT AND IS NOT TO BE RELIED UPON FOR CONSTRUCTION.




| Line Table | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L 1 | S 51°36'48" W | 8.89' |
| L 2 | S 70°00'48" W | 29.23' |

ESTIMATED DRIVEWAY AREA = 1661.32 SQ.FT.±

| Curve Table | | | | | |
|---|---|---|---|---|---|
| CURVE | RADIUS | LENGTH | CHORD | BEARING | DELTA |
| C 1 | 210.00' | 54.93' | 54.77' | S 67°08'43" W | 14°59'10" |
| C 2 | 210.00' | 49.50' | 49.38' | S 52°54'00" W | 13°30'18" |

STAKEOUT ☐

**NOT FOR RECORDATION, CONVEYANCES OR SALES**

Subdivision HEATHFIELD SUBDIVISION, PHASE 1, MAP 3 County MECKLENBURG
Address 6917 HEATH GLEN DRIVE Owner RYAN HOMES
Lot 6 Block ___ Plan AVALON Elevation C Drive (Left) Side (Right) ___ (Courtyard) ___ Deck ___
Patio ___ Fireplace Rear Garage (1 Car) ___ (2 Car) ___ (3 Car) X Brick Front Basement ___ Curtain Wall X
Crawl ___ Slab ___ Other MORNING ROOM, 4' EXTENSION TO REAR OF FAMILY ROOM

REVISED: MOVE HOUSE, ADD LOT 5 SEPTIC EASEMENT DWN: CRB CKD: HDD DATE: 04 / 19 / 04

C:\HEATHFIELD\HF-0006.DWG - CRB