

19314 MARY ARDREY CR

00151112

5/29/2007

duponbj

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

Mecklenburg County
Health Department

April 27, 1990

Stough Farm Development
19529 Weavers Circle
~~Charlotte, NC 28207~~ Huntersville, N.C. 28078

RE: Property located at 19314 Mary Ardrey Circle
FILE: 5068A
PARCEL: 001-511-12

Gentlemen:

Receipt of your plans for a modified waste disposal system for the property referenced above is acknowledged.

Your plans for the modified system for the above property as submitted are approved with the following comments:

- The well should be located 100 feet or no less than 50 feet away from any part of the sewage disposal system and repair area.
- Water saving plumbing devices and low flush toilets should be installed when constructing the residence.
- Occupants to utilize maximum water conservation measures wherever possible.
- Effectively rake and lime all trench sidewalls
- Landscaping of repair area to be undisturbed. No grading, shaping, or altering in anyway.

Upon execution and recording with the Register of Deeds Office, Mecklenburg County, of the enclosed "Septic Tank Agreement Form", an Improvements Permit may be issued by this office.

Sincerely,

Gene Vaughan, R.S., Supervisor
On Premises Waste Disposal & Water Supply

GV/kat

Enclosures - 3 Septic Tank Agreement Forms

100.00 FAT

APPLICATION FOR AN IMPROVEMENT PERMIT

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

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

(OFFICE USE ONLY)
FILE: 5068A
TC: 001 511 12
SERIAL: № 20444 ☐ L ☐ CRT

JOB LOCATION

① ADDRESS: 19314 MARY ARDREY CIRCLE (STREET NO. / STREET) ② FILE: 5068 A
③ JURISDICTION: ④ TAX PARCEL NO.: 001 511 12
⑤ SUBDIVISION: PATRICKS PHASE II ⑥ LOT: 35 ⑦ BLOCK:

OWNER

STOUGH FARMS DEVELOPMENT COMPANY
⑧ NAME: WILLIAM (FIRST) ARDREY (MIDDLE) KIMBROUGH (LAST) V.P.
⑨ MAILING ADDRESS: 19529 WEAVERS CIRCLE
⑩ CITY: HUNTERSVILLE ⑪ STATE: N.C ⑫ ZIP: 28078
⑬ PHONE: (WORK) 892 3683 ⑭ (HOME) 892 3683

REQUEST

This request is for a(n):
⑮ ☒ New permit
⑯ ☐ Repair or alteration permit
⑰ ☐ Authorization for mobile home exchange
⑱ ☐ Other (specify)

DESIGN CRITERIA

System will serve:
⑲ ☒ Residence ⑳ ☐ Mobile home ㉑ ☐ Business or place of public assembly
㉒ Number of bedrooms? 5 ㉕ Type?
㉓ Maximum occupancy? ㉖ Maximum number of employees?
㉔ Basement? ☐ yes ☐ no ㉗ Maximum number of seats?

WATER SUPPLY

㉘ Water supply from (present or proposed):
A ☒ Individual well
B ☐ Municipal system
C ☐ Community well
D ☐ Community system

㉙ The undersigned, 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: William A. Kimbrough
Date: 01-29-90

IMPROVEMENT PERMIT

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 permit is issued by this Department.

... This permit is not transferable, and shall become null and void 36 months from the date of issuance.

Environmentalist / Date

Director or Authorized Section Head / Date

*This permit must be signed by the Director of Mecklenburg County Health Department or an authorized section head in order to be valid.

Mecklenburg County
Health Department

Basil G. Deltu, M.D., M.P.H.
Health Director

October 18th, 1988

Stough Farms Development Company
19529 Weaver's Circle
Huntersville, NC 28078

RE: Property located at 19314 Mary Ardrey Circle 35
FILE: 5068A
PARCEL: 00151112

Dear Sir:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The results of this investigation showed the property to be classified UNSUITABLE for the installation of such a system. A copy of the Site Evaluation Report (Serial Number 15677) is enclosed.

State regulations provide that sites originally classified unsuitable may be utilized for the installation of alternate or modified sewage disposal systems provided the requirements of 10 NCAC 10A .1948 (c) are met. A reprint of this section is enclosed for your information.

Should you desire to file for permission to install an alternate or modified sewage treatment system on the property, please submit an Application For An Improvement Permit with an ACCURATELY dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems to this office. They will be reviewed, and if it is determined that the proposed system may reasonably be expected to function satisfactorily, an Improvement Permit will be issued by the Department upon completion by you, of a formal request for lot reclassification.

If I may be of any assistance, please feel free to call.

Very truly yours,

Sylvia D. Daniel

Sylvia D. Daniel, R.S., Supervisor
On Premises Waste Disposal & Water Supply

Enclosure (2)

MECKLENBURG COUNTY ENVIRONMENTAL HEALTH
SITE EVALUATION REPORT
SERIAL NUMBER 15677

File: 5068A Action 2

Parcel: 00151112 ☐ PC

Location: 19314 Mary Ardrey Circle

Subdivision:

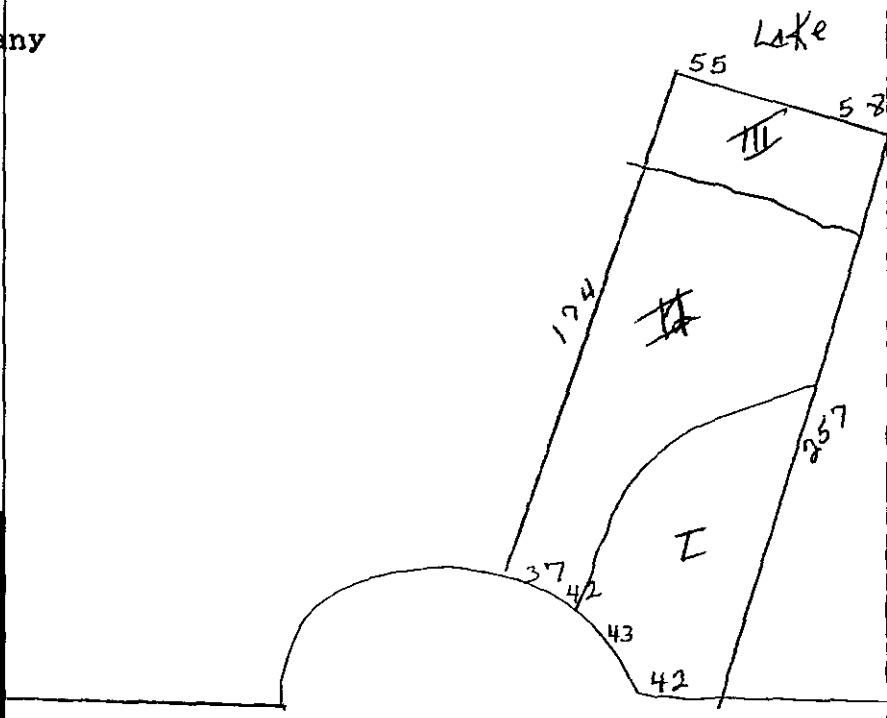
Lot: 35 Block: Acres: 5.6

Owner: Stough Farms Development Company
Address: 19529 Weaver's Circle
Huntersville, NC 28078

Comments: _____

Described by: W. B. Ramsey

Date: 10-12-88



***** EVALUATION KEY *****

S = Suitable U = Unsuitable
PS = Provisionally Suitable
The "Area Classification" below indicates the suitability of areas in the diagram.

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6
Topography	S (PS) U 2–7	S PS (U) Complex Slopes	S (PS) U 2–4	S PS U	S PS U	S PS U
Texture	S (PS) U	S (PS) U	S (PS) U	S PS U	S PS U	S PS U
Structure	S (PS) U	S (PS) U	S (PS) U	S PS U	S PS U	S PS U
Drainage	S (PS) U	S (PS) U	S PS (U) H2O At 30"	S PS U	S PS U	S PS U
Depth	S (PS) U 40–47	S PS (U) Various	S (PS) U 48	S PS U	S PS U	S PS U
Restrictive Horizons	S (PS) U	S (PS) U	S (PS) U	S PS U	S PS U	S PS U
Available Space	S PS (U)	S PS (U)	S PS (U)	S PS U	S PS U	S PS U
Other (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS U
Soil Group/Series	IVa Cecil	IVa Enon Cecil	IVa Alluvium Meherrin			
Area Classification	S PS (U)	S PS (U)	S PS (U)	S PS U	S PS U	S PS U

APPLICATION FOR SOIL INVESTIGATION

MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
PAID
SEP 30 1988

1200 BLYTHE BOULEVARD
CHARLOTTE, NC 28203
PHONE (704) 376-4603

(OFFICE USE ONLY)

FILE: 5068A

TC: -12

☐ PC ☐ REPT

Dup # 5067A
= package

JOB LOCATION

① ADDRESS: 19314 MARY AUDREY CIRCLE

② SUBDIVISION: PATRICKS PURCHASE PHASE II ③ LOT: 35 ④ BLOCK: ____

⑤ PARCEL REFERENCE: BOOK NO.: ____ PAGE NO.: ____ PARCEL NO.: ____

⑥ DEED REFERENCE: BOOK NO.: 5123 PAGE NO.: 663

OWNER

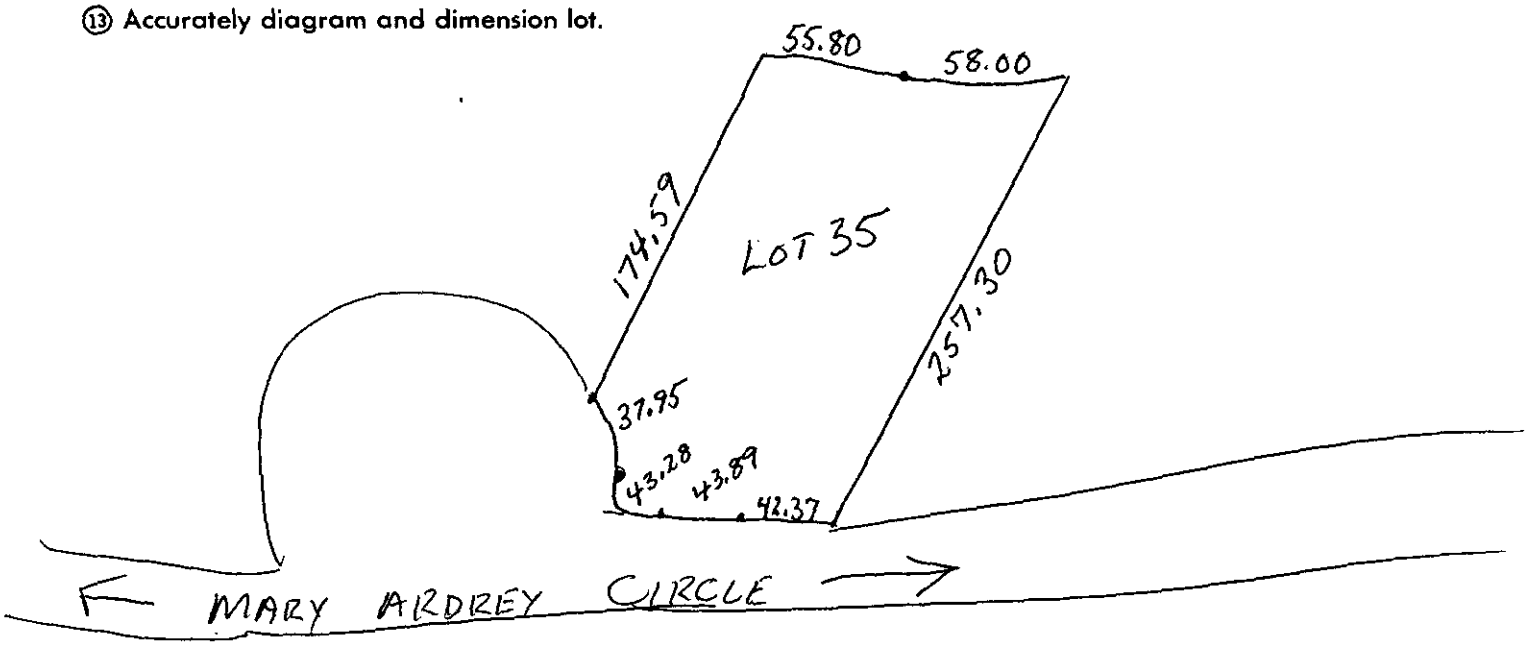
⑦ NAME: STOUGH FARM DEVELOPMENT CO
WILLIAM A. KIMBROUGH VICE PRESIDENT
(FIRST) (MIDDLE) (LAST)

⑧ MAILING ADDRESS: 19529 WEAVERS CIRCLE

⑨ CITY: HUNTERSVILLE ⑩ STATE: N.C ⑪ ZIP: 28078

⑫ PHONE: (WORK) 892 3683 (HOME) 892 3683

⑬ Accurately diagram and dimension lot.



⑭ The undersigned, 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 DEPARTMENT OF ENVIRONMENTAL HEALTH to enter onto the property for the purpose of processing this request.

Signed: William A. Kimbrough

Date: 9-28-88

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

WHITE - ENVIRONMENTAL HEALTH DEPARTMENT'S COPY ● CANARY - ENVIRONMENTALIST'S COPY ● PINK - OWNER'S COPY

RECOMMENDED INDIVIDUAL RESIDENCE

T & J PANEL

GROUND ABSORPTION, WASTEWATER

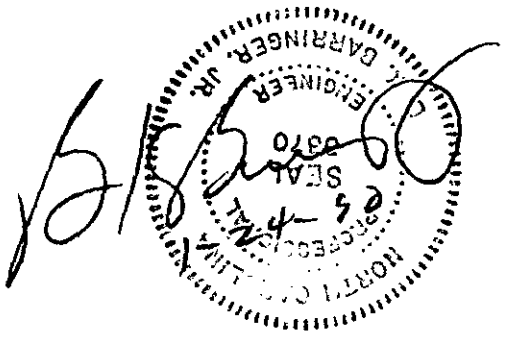
DISPOSAL SYSTEM

for

MARY ARDREY CIRCLE LOT 35 (ON LOT 35A)
FILE NO. 5068A - PARCEL 001-511-12
FORMERLY A PORTION OF LOT 14
FILE NO. 5836A - PARCEL 001-511-14
PATRICK'S PURCHASE, PHASE II
MECKLENBURG COUNTY, N.C.

JANUARY 24, 1990

Owner:
William Kimbrough
19529 Weavers Circle
Huntersville, N.C. 28028



Prepared By:
B. K. Barringer, Jr., P.E.
N. C. Registration No. 3370
104 Westfield Center
Mooresville, N. C. 28115
Phone (704)664-7888
Fax (704)664-1778

T & J PANEL SYSTEM

DESIGN CONSIDERATIONS:

PROPOSED FIVE BEDROOM HOME with three baths and a washing machine. The unit will be serviced by a water well located a minimum of 50' from the septic tanks.

LOCATION: The property is located on Mary Ardrey Circle, off Meta Road and north of Jetton Road. Lot 35 has been declared unsuitable for a nitrification field; therefore, the Owner/Developer has provided right-of-way access and adequate area at the rear and south of lot 14 to accommodate a T & J Panel System and repair area. This area is called lot 35A and will be deeded along with permanent utility easement with Lot 35. The septic tank and pump tank are to be located to allow gravity flow from the house. Effluent will be pumped across Mary Ardrey Circle to lot 35A located to the rear and south of lot 14.

TERRAIN The property, where the field is to be located, slopes south to north at approximately 9%.

REFERENCE MATERIAL:

(1) DESIGN AND INSTALLATION (Manual)
OF LOW PRESSURE PIPE WASTE WATER TREATMENT SYSTEMS
By: Craig Cogger; Bobby L. Carlisle; Dennis Osborne; Ed Holland
Published by: UNC Sea Grant College Pub. UNC-SC-82-03
May, 1982.

(2) LAWS AND RULES FOR GROUND ABSORPTION SEWAGE DISPOSAL SYSTEMS.
SECTION .1956 OF THE N.C. Administrative Code: Title 10 Health Services; Environmental Health; Subchapter 10a; Sanitation.
Published by: N.C. Dept. of Human Resources; July 1, 1982.
Paragraph .1956 (a)(ii)(B).

(3) EPA 625/1-80-012 Design Manual
Onsite Wastewater Treatment and Disposal System Oct.,1980;
Chapter 7.

RECOMMENDATIONS: Due to shallow soil depth, sloping lot, and limited area, a precast porous block panel system (PPBPS) - T & J - is recommended for the location.

OWNERSHIP RESPONSIBILITY

It must be kept in mind that this system is designed to accept a moderate amount of waste water (which is called the EFFLUENT), in a minimal water absorbing soil.

Conservation measures must be undertaken by all members of the house hold to minimize the volume of waste water entering the disposal system, including, but not limited to, the following precautions:

(a) Provide water conserving plumbing fixtures within the facility; toilets shall be equal to Eljer "Ultra-One/G" or Sloan's "Flushmate".

(b) Develop conservative water use habits;

(c) Monitor and maintain the system as necessary for proper operation;

(d) Check and pump the septic tank sludge on a regular basis of approximately every year if garbage disposal is included in the residence, or approximately every three years otherwise.

(e) Make rapid repairs to leaking plumbing fixtures and faucets.

(f) Avoid excessive watering of the lawn in the vicinity of the disposal field.

CONSTRUCTION SEQUENCE AND COMPONENTS OF THE SYSTEM

Refer to T & J Panel System's manufacturing and installment manual. Furnish and install all items required for a complete system in accordance with plans and specifications; for requirements of the County Dept. of Environmental Health (CDEH); the N. C. Dept. of Environmental Health (NCDEH); the N. C. Building Code, Plumbing Code and Electrical Code; and the National Electric Code. System must be properly installed by a qualified, competent contractor.

COMPONENTS OF SYSTEM

1. Two compartment septic tank
2. Pumping chamber
3. Submersible effluent pump and level controls
4. High water alarm signals (audible and visible)
5. Supply pipe
6. Ball valves
7. T & J 16" high panels & distribution laterals

CONSTRUCTION SEQUENCE:

(1) Lay out T & J, 16" high, Panel System network area and repair area with stakes and flagging to ten feet (minimum) beyond the limits of the network. As soon as the absorption area is designated, it should be flagged, roped off and isolated from construction traffic. This barrier should be maintained until the system is accepted by the Owner. Refer to site plan for the size of absorption area. The Engineer has previously flagged the general limits of the nitrification field. See site plans for flag locations.

(2) Prior to actually beginning construction of the system, carefully locate, lay out and identify disposal site, manifolds and the lateral panel piping networks, using a tripod mounted engineer's leveling instrument to accurately establish each lateral along a level contour. Note: Lateral panel runs which conflict with cut-off-in-place stumps or trees shall "snake" by with a 12" minimum trench clearance and then continue along its projection run. (The 6' minimum trench separation must be maintained.)

(3) Excavate for and construct curtain drain (if shown on the plan.)

(4) Excavate lateral network trenches 24" wide by 28" deep (see detail). Remove loose soil from bottom of trench.

(5) Install sand in bottom of the lateral trench to the proper depth of approximately 22" below finish ground level.

(6) Follow the manufacturer's guidelines for installing the T & J Panel System.

(7) All joints in lateral and the manifold piping shall be water tight connections to insure that the only source of the water seepage from the system is through the orifices as designed. See layout and details. Carefully install manifold and lateral network according to the attached designed layout. A larger diameter protective sleeve with cap or approved box with lid shall be placed over the turned up lateral and positioned level with the ground surface (so as not to be damaged by mowing machine.)

(8) Carefully backfill manifold trenches to finish grade with clean (debris free earth (no stone).

(9) Leave absorption area with a raked surface, ready for grassing.

(10) The installation contractor shall stabilize the area of construction by planting and seeding with Kentucky 31 tall fescue and shall keep the planted area watered and mulched until such time that a hardy stand of grass is established. (See Grassing Specification.)

(11) The septic tank shall consist of a 1,500 gallon capacity, reinforced, precast concrete tank with full baffle and shall have easy access to each chamber from ground level for checking and pumping. The first chamber of the septic tank shall consist 2/3 to 3/4 of the volume of the total tank and the baffle shall contain a horizontal opening across the tank at about midway its height. Locate the septic tank at such height as to provide approximately 8" of cover soil over top of the tank.

(12) The dosing tank shall consist of a 1,500 gallon capacity, reinforced, precast concrete tank without baffle and shall have a concrete mounting pad (concrete blocks) for accommodating the pump. Provide access for entry into the tank directly over the pump location, and extending 6" above final grade. Use a 30" diameter concrete well casing and concrete well cap.

(13) All piping and fittings shall be PR160 PVC. Glue for all PVC pipe joints shall be as recommended by the pipe manufacturer.

(14) PUMP: The submerged pump shall be Model WHRE10 manufactured by F.E.Meyers Co., Ashland, OH, or equal, 1hp, 230v/1ph; capable of pumping 34.0 gallons per minute at an 56.3' head.

(15) PUMP ON-OFF water level control switch shall by Myers, Model MLC-20, mercury switch, with three prong, piggy back plug.

(16) HIGH WATER ALARM SWITCH shall be equal to Myers, model FLCA-30, mercury switch, red colored ball with support bracket.

(17) HIGH WATER ALARM CONTROL BOX shall be equal to Myers, model FLCA CA-SS4 with connection box having buzzer alarm, on, off, test switch with terminal block for all connections. Control box shall be supplied by two separate 115 volt circuits, one plug circuit, and one alarm circuit.

(18) A "HOME OWNER'S WARNING SIGN" shall be located within the house to inform the owner of what action to take in case the "High Water Alarm" is activated. This sign shall contain the name, address, telephone number, and emergency telephone number of the person to contract immediately upon malfunction of the system.

(19) PUMP AND CONTROLS: Details of pump installation are shown on the plan. The pump must be placed on two concrete blocks next to each other on the bottom of the tank. This prevents the pumping of any solid particles which can clog the LPP system. 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. (The PVC outlet pipe is too fragile to support the pump.)

Controls are fastened to the outlet pipe with clamps or brackets supplied by the manufacturer. The lower level control or "pump-off" must be positioned above the pump, so that the pump remains submerged at all times. The upper level control "pump-on" is positioned to pump a specified volume of effluent. The high water control float is then mounted about 3" above the upper pump-on control. (Note: Care must be taken to insure that floats do not become fouled by other components in the tank such as the electric power cord or the lifting rope.)

The pump outlet pipe should be connected to the supply manifold with a threaded PVC union (or dresser coupling) to allow quick removal. The gate valve must also be installed in the supply line (within the pump-chamber) to allow final adjustment of the pressure. If effluent will be pumped down hill, a 1/4" siphon-breaker hole must be drilled in the bottom of the supply line before it leaves the pump tank. This breaks any vacuum in the system and prevents the inadvertent siphoning of effluent out of the tank. This hole is very important.

(20) ELECTRICAL CONNECTIONS: The pump and high water alarm must be placed on separate electrical circuits. (If the pump circuit fails, the alarm must still be able to operate.) Follow the manufacturers' recommendations for the proper fuses or circuit-breakers. All electrical connections must be made outside the pumping chamber. Power cords from the pumps and controls should be plugged into a NEMA approved outdoor receptacle mounted outside of the pumping chamber. The receptacle must not be located inside the pumping chamber due to the corrosive and explosive gasses that may form from the sewage.

Electrical connections may be made inside the pumping tank only if wired inside a sealed, water tight box. Some level control switches have a box built into the housing, but are more expensive than the plug-in devices.

Wiring between the pumping chamber and the house should meet State and local code requirements. A lightning arrester is recommended to protect the pump and controls from electrical surges.

(21) PROPER OPERATION CHECK: After all components have been installed and connected, the system should be checked for proper operation. With electrical power turned off, fill the pumping chamber with water from a garden hose (or allow effluent to accumulate) until the liquid rises to the level of the high-water alarm float. Turn on the electrical power. The alarm light should go on in the house, and the pump should start operating. 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.

(22) PRESSURE HEAD ADJUSTMENT: The pressure head must be adjusted to match that specified in the design. The pressure head is measured as the height liquid will rise above the turn-up elbow when the pump is running. To adjust the head:

(a) Glue a 4' length of pipe (preferably clear) to a threaded adapter that will screw onto the turn-up adapters. (Call this the "test tube".)

(b) Replace the turn-up cap with the "test tube".

(c) Turn the power on to allow liquid to rise in the "test tube".

(d) Adjust the ball valve beginning at the end of each lateral until the effluent reaches the desired height in the "test tube". Remember to include the distance below the ground surface to the lateral line when measuring the height. The pressure head should be 3' for each line. This is the height above the lateral the liquid should be in the temporary "test tube". Continue to adjust valves until all test tubes have an equal amount of liquid.

(23) FINAL LANDSCAPING: After the T & J System is installed, the following should be checked to insure that the system will not be overloaded with excess rain water and run off:

(a) The distribution field is shaped to shed rain water and is free of low area.

(b) Gutter and downspout drains are directed away from the system.

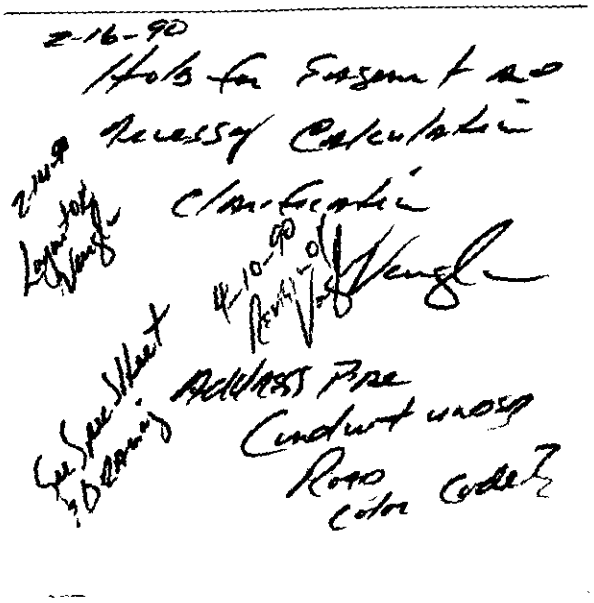
Any problems should be corrected before approving the system.

Finally, the entire area should be planted with grass according to specifications.

(24) ROAD CROSSING: The effluent pipe under Mary Ardrey Circle shall be Schedule 40 galvanized steel and shall be jacked under the road to provide a minimum of 36" cover at the ditch line.

DESIGN SPECIFICATIONS - T & J PANEL SYSTEM
William Kimbrough - Lot 35, 35A Mary Ardrey Cir.
Mecklenburg County January 24, 1990

Daily design waste flow:	600 gpd
Septic tank size:	1,500 gal. (2 compartment)
Pumping tank size:	1,500 gal.
Effluent loading rate:	0.30 gpd/sf
Total linear feet and diameter of laterals	360 ft. of 1-1/4" dia. PVC and T & J 16" high panels
Total length and diameter of supply manifold:	900 lf - 2.0" dia. PVC
Number and length of laterals:	3 laterals at 88 lf 2 lateral at 48 lf total
Number of panels:	82
Hole size:	5/32"
Hole spacing:	1 hole per panel
Total number of holes:	82
Flow rate through the system:	34.0 gpm
Elevation head (pump to end of manifold):	50'
Pressure head:	3'
Friction head:	3.3'
Total head:	56.3'
Pump requirements:	34.0 gpm at 55.3'; use Myers 1 hp WHRE10 pump
Dosing volume:	296 gal.
Depth of water pumped per dose:	9.6"
Pump run per dose:	8.7 min.
Check valve:	yes
Syphon break hole:	no



SEEDING SPECIFICATIONS

3:1 SLOPES OR FLATTER

1. Apply agricultural lime at the rate of 30 lbs/1000 sf.
2. Apply 10-10-10 commercial fertilizer at the rate of 20 lb/1000 sf.
3. Seed in accordance with the following schedule & application rate:

DATE	TYPE	PLANTING RATE
8/15 - 11/1	Tall Fescue	200 lb/ac or 7 lb/1000 sf
11/1 - 3/1*	Tall Fescue and	200 lb/ac or 7 lb/1000 sf
	Abruzzi Rye	25 lb/ac or 1/2 lb/1000 sf
3/1 - 4/15	Tall Fescue	200 lb/ac or 7 lb/1000 sf
4/15 - 7/30	Mulled Common or Bermuda Grass	30 lb/ac or 1 lb/1000 sf
7/15 - 8/15	Tall Fescue and	200 lb/ac or 7 lb/1000 sf
	Browntop Millet or	35 lb/ac or 7/8 lb/1000 sf
	Sorghum-Sudan Hybrids	30 lb/ac or 3/4 lb/1000 sf

4. Mulch with straw applied at the rate of 75-100 lb/1000 sf.
* Heavily mulched during January - March period.

SLOPES GREATER THAN 3:1 TO 2:1 SLOPES

1. Apply agricultural lime at the rate of 50 lb/1000 sf.
2. Apply 10-10-10 commercial fertilizer at the rate of 20 lb/1000 sf.
3. Seed in accordance with the following schedule & application rate:

DATE	TYPE	PLANTING RATE
3/1 - 6/1	Sericea Lespediza (scarified) and	50 lb/ac or 11 lb/1000 sf
3 - 4	Add Tall Fescue or	150 lb/ac or 3-1/2 lb/1000 sf
3 - 6	Add Weeping Lovegrass	5 lb/ac or 1/8 lb/1000 sf
6 - 9/1**	Tall Fescue and	60 lb/ac or 1-1/2 lb/1000 sf
	Brown Top Millet	35 lb/ac or 7/8 lb/1000 sf
	or Sorghum	30 lb/ac o 3/4 lb/1000 sf
	Sudan Hybrids	
9 - 3/1	Sericea Lespediza (unhulled-unscarified)	70 lb/ac or 1-3/4 lb/1000 sf
	Tall Fescue	150 lb/ac or 3-1/2 lb/1000 sf
	Millet or Sudan	20 lb/ac or 1/2 lb/1000 sf

** Temporary - Reseed September 1 at recommended rates.
4. Mulch with 3" straw applied at the rate of 50-90 lb/1000 sf and anchor with asphalt emulsion tack coat applied at the rate of 14-28 gal/1000 sf or 800-1200 gal/ac.

Mecklenburg County
Health Department

Basil G. Deltas, M.D., M.P.H.
Health Director

October 18th, 1988

Stough Farms Development Company
19529 Weaver's Circle
Huntersville, NC 28078

RE: Property located at 19314 Mary Ardrey Circle - 35
FILE: 5068A
PARCEL: 00151112

Dear Sir:

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If I may be of any assistance, please feel free to call.

Very truly yours,

Sylvia D. Daniel

Sylvia D. Daniel, R.S., Supervisor
On Premises Waste Disposal & Water Supply

Enclosure (2)

SEEDING SPECIFICATIONS

3:1 SLOPES OR FLATTER

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	Abruzzi Rye	25 lb/ac or 1/2 lb/1000 sf
3/1 - 4/15	Tall Fescue	200 lb/ac or 7 lb/1000 sf
4/15 - 7/30	Mulled Common or Bermuda Grass	30 lb/ac or 1 lb/1000 sf
7/15 - 8/15	Tall Fescue and	200 lb/ac or 7 lb/1000 sf
	Browntop Millet or	35 lb/ac or 7/8 lb/1000 sf
	Sorghum-Sudan Hybrids	30 lb/ac or 3/4 lb/1000 sf

4. Mulch with straw applied at the rate of 75-100 lb/1000 sf.
* Heavily mulched during January - March period.

SLOPES GREATER THAN 3:1 TO 2:1 SLOPES

1. Apply agricultural lime at the rate of 50 lb/1000 sf.
2. Apply 10-10-10 commercial fertilizer at the rate of 20 lb/1000 sf.
3. Seed in accordance with the following schedule & application rate:

DATE	TYPE	PLANTING RATE
3/1 - 6/1	Sericea Lespediza (scarified) and	50 lb/ac or 11 lb/1000 sf
3 - 4	Add Tall Fescue or	150 lb/ac or 3-1/2 lb/1000 sf
3 - 6	Add Weeping Lovegrass	5 lb/ac or 1/8 lb/1000 sf
6 - 9/1**	Tall Fescue and	60 lb/ac or 1-1/2 lb/1000 sf
	Brown Top Millet	35 lb/ac or 7/8 lb/1000 sf
	or Sorghum Sudan Hybrids	30 lb/ac o 3/4 lb/1000 sf
9 - 3/1	Sericea Lespediza (unhulled-unscarified)	70 lb/ac or 1-3/4 lb/1000 sf
	Tall Fescue	150 lb/ac or 3-1/2 lb/1000 sf
	Millet or Sudan	20 lb/ac or 1/2 lb/1000 sf

** Temporary - Reseed September 1 at recommended rates.
4. Mulch with 3" straw applied at the rate of 50-90 lb/1000 sf and anchor with asphalt emulsion tack coat applied at the rate of 14-28 gal/1000 sf or 800-1200 gal/ac.

Mecklenburg County
Health Department

Basil G. Deltas, M.D., M.P.H.
Health Director

October 18th, 1988

Stough Farms Development Company
19529 Weaver's Circle
Huntersville, NC 28078

RE: Property located at 19314 Mary Ardrey Circle Lot 35
FILE: 5068A
PARCEL: 00151112

Dear Sir:

At your request, a field investigation was conducted on the property designated above for the purpose of determining site suitability for the installation of a ground absorption sewage disposal system. The results of this investigation showed the property to be classified UNSUITABLE for the installation of such a system. A copy of the Site Evaluation Report (Serial Number 15677) is enclosed.

State regulations provide that sites originally classified unsuitable may be utilized for the installation of alternate or modified sewage disposal systems provided the requirements of 10 NCAC 10A .1948 (c) are met. A reprint of this section is enclosed for your information.

Should you desire to file for permission to install an alternate or modified sewage treatment system on the property, please submit an Application For An Improvement Permit with an ACCURATELY dimensioned plot plan detailing the location of current and/or proposed buildings, wells and sewage disposal systems to this office. They will be reviewed, and if it is determined that the proposed system may reasonably be expected to function satisfactorily, an Improvement Permit will be issued by the Department upon completion by you, of a formal request for lot reclassification.

If I may be of any assistance, please feel free to call.

Very truly yours,

Sylvia D. Daniel

Sylvia D. Daniel, R.S., Supervisor
On Premises Waste Disposal & Water Supply

Enclosure (2)

...BURG COUNTY ENVIRONMENTAL HEALTH
ITE EVALUATION REPORT
ERIAL NUMBER 16218

File: 5836A Action 7
Parcel: 001-511-14

cation: 19401 Mary Ardrey Circle

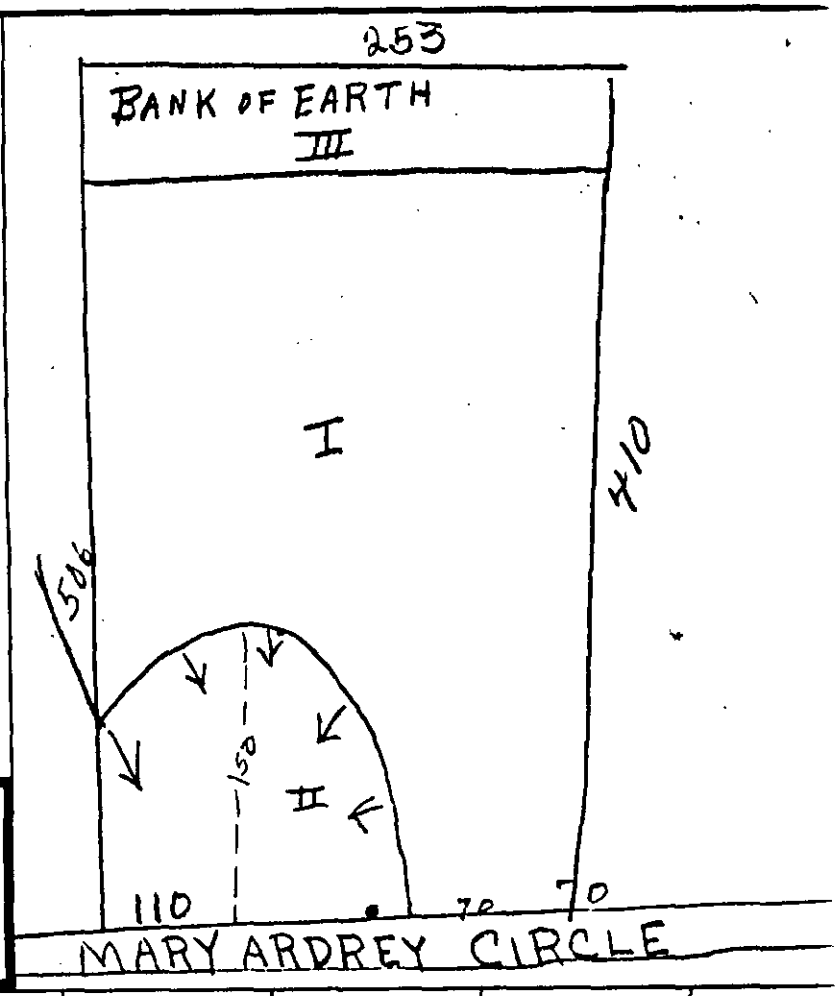
ubdivision:

Lot: 14 Block: Acres: 2.21

wner: William Kimbrough
ddress: 19529 Weavers Circle
Huntersville, NC 28078

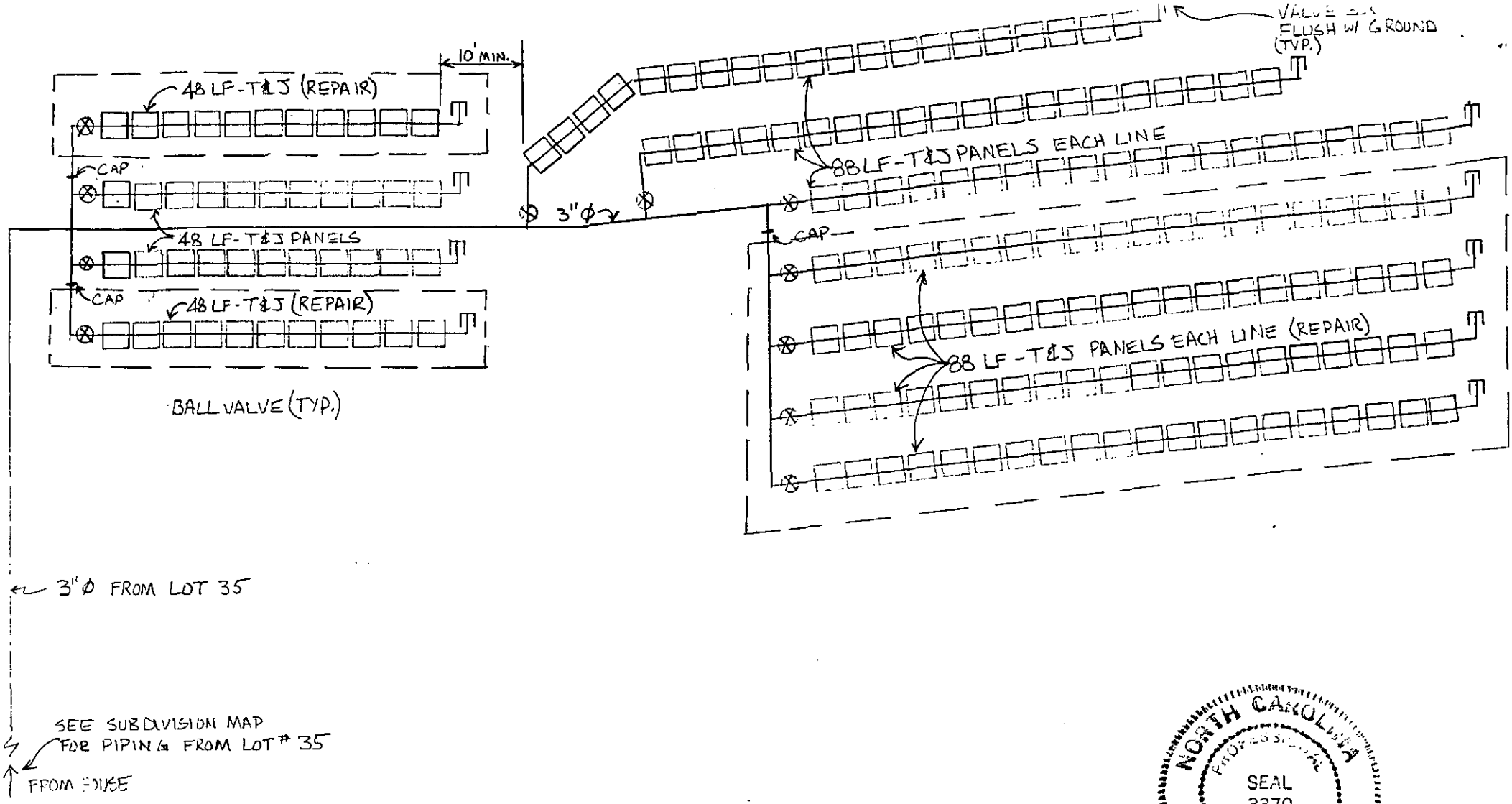
mments:

cribed by: Willard B. Ramsey
: 7-9-89



*** EVALUATION KEY ***
= Suitable U = Unsuitable
= Provisionally Suitable
"Area Classification" below indicates the suitability of as in the diagram.

CTORS	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA
ography	S (PS) U 2-8	S PS (U) Head of DRAW	S PS (U) EARTH Mound	S PS U	S PS U	S PS
ture	S (PS) U	S (PS)	S PS (U)	S PS U	S PS U	S PS
ucture	S (PS) U	S (PS)	S PS (U)	S PS U	S PS U	S PS
inage	S (PS) U	S (PS) U	S PS (U)	S PS U	S PS U	S PS
pth	S (PS) U 48+	S PS (U) VARIOUS	S PS (U) UNKNOW	S PS U	S PS U	S PS
trictive Horizons	S (PS) U	S (PS) U	S (PS) U	S PS U	S PS U	S PS
ilable Space	S (PS) U	S PS (U)	S PS (U)	S PS U	S PS U	S PS
er (specify)	S PS U	S PS U	S PS U	S PS U	S PS U	S PS
Group/Series	IVa CECIL	IVa ERODED CECIL	IVa under EARTH			
a Classification	S (PS) U	S PS (U)	S PS (U)	S PS U	S PS U	S PS



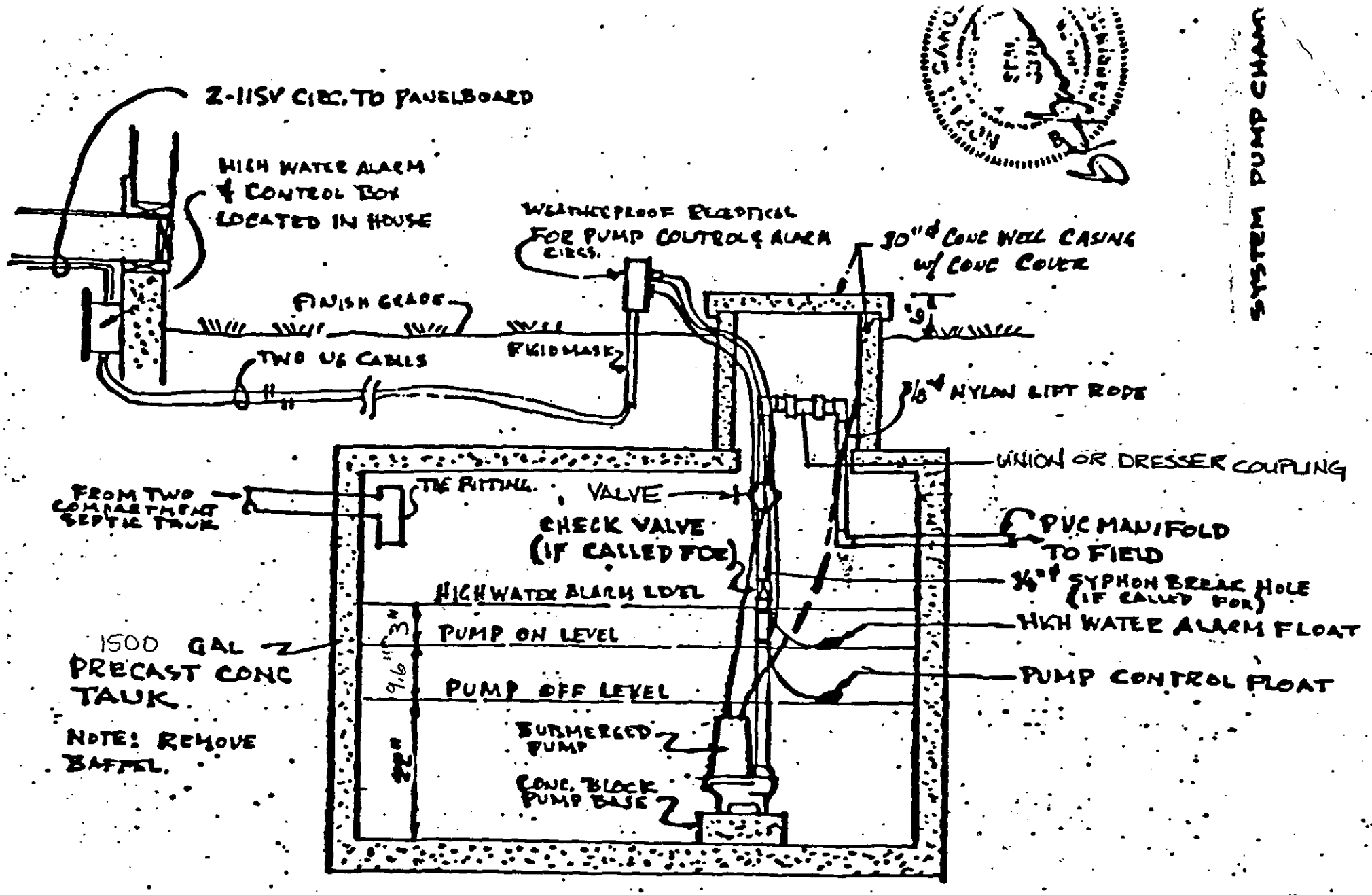
T&J PANEL SYSTEM
PATRICK'S PURCHASE PH. II
MARY ARDREY CIRCLE
MECKLENBURG CO. NC
LOT # 35 LOCATED ON LOT # 35A

NORTH CAROLINA
PROFESSIONAL
SEAL
3370
ENGINEER
B. K. BARRINGER, JR.

1-25-90

B.K. Barringer, Jr. P.E.
104 Westfield Center
MOORESVILLE, NORTH CAROLINA 28115

(704) 664-7888



PUMPING CHAMBER DIAGRAM

NO SCALE

1500 GAL TANK

SYSTEM PUMP CHART

LAKE NORMAN

MARY ARDREY CIRCLE (60' R/W)

Lot 43 0.59 AC.

Lot 42 0.73 AC.

Lot 41 0.97 AC.

Lot 9 0.83 AC.

Lot 40 1.23 AC.

Lot 39 0.86 AC.

Lot 37 0.99 AC.

Lot 38 0.78 AC.

Lot 36 0.50 AC.

LOT 35

LOT 34 (ON SITE)

LOT 33

Lot 10 1.77 AC.

Lot 11 2.08 AC.

Lot 12 1.97 AC.

Lot 13 1.79 AC.

LOT 14 0.78AC

Lot 15 2.27AC

LOT 36A 0.49 AC

LOT 35A 0.94AC

LOT 33A 0.87AC

Lot 32 4.20 AC. Water access Lot

4 BR. HOUSE

5 BR. HOUSE

4 BR. HOUSE

REPAIR AREA

REPAIR AREA

REPAIR AREA

20' PUBLIC STORM DRAINAGE EASEMENT

20' PUBLIC STORM DRAINAGE E'SMT

30' PUBLIC STORM DRAINAGE E'SMT

20' UTILITY EASEMENT

30' MIN BLDG SETBACK

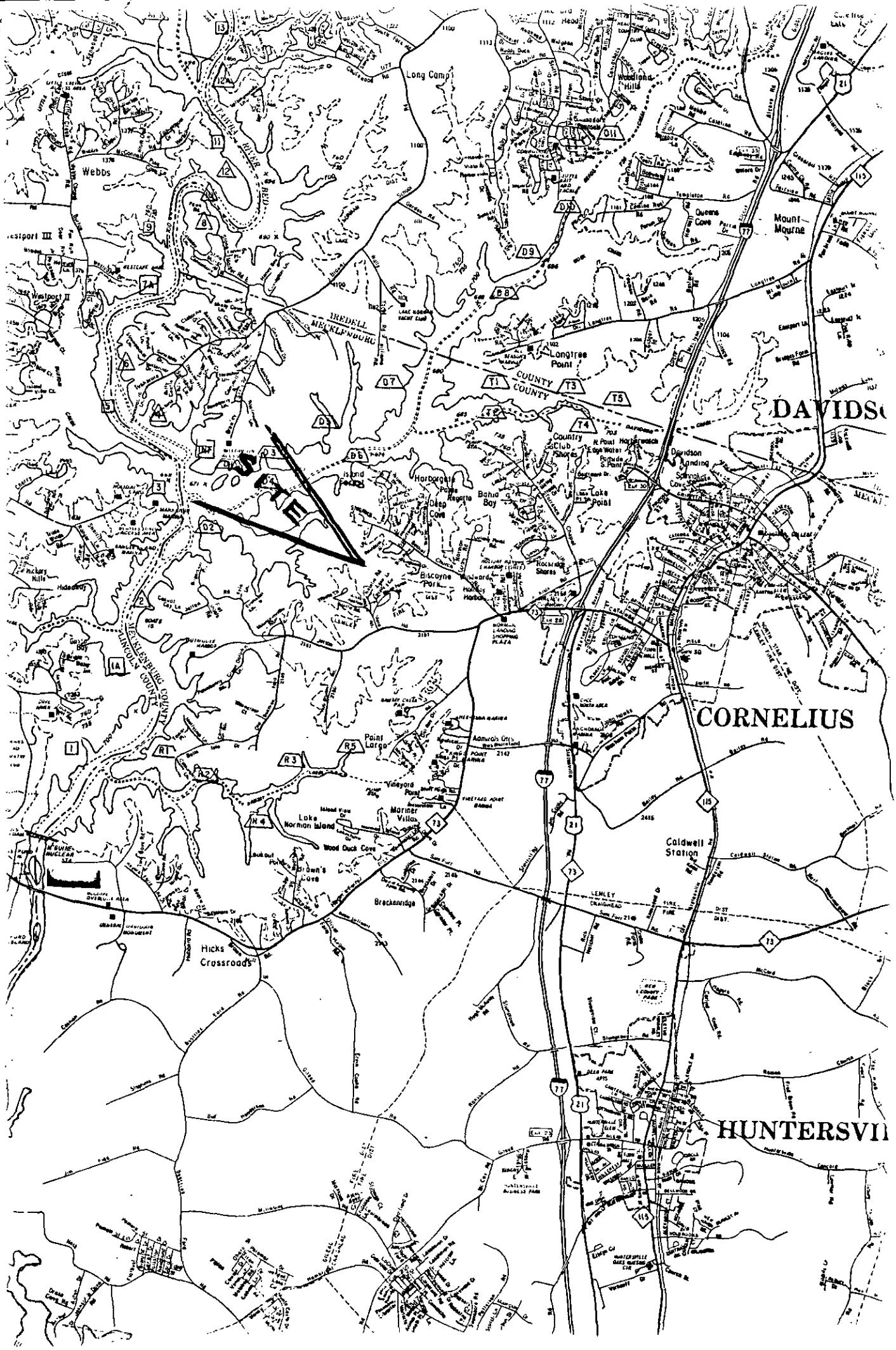
36" RCP

18" RCP

30" RCP

NORTH

SR 2151


SITE
CORNELIUS
HUNTERSVI
DAVIDS
Webbs
Long Camp
Woodland Hills
Mount Mourne
Westport III
Westport II
Longtree Point
Country Club Shores
Davidson Landing
Lake Point
Harborage
Deep Cove
Bahia Bay
Island Point
Biscayne Park
Rockwood Shores
Point Largo
Vineyard Point
Lake Norman Island
Mariner Villas
Wood Duck Cove
Brown's Cove
Breckenridge
Hicks Crossroads
Caldwell Station
McGUIRE NUCLEAR STA.
IREDELL
MECKLENBURG
LINCOLN COUNTY
COUNTY
COUNTY