DELL COUNTY HEALTH DEPARTMENT

THIS PERMIT VOIDS PREVIOUS ISSUED

STATESVILLE 704-878-5305 (4) MOORESVILLE 704-664-5281

PROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM INSPECTION

PERMIT# 073299 129348 PIN# 4711-32-4870 DATE 8-1-05

OWNER OR CONTRACTOR JOHN KOVATCH PHONE: Business 704-517-5660 Home 704-992-0160

ADDRESS 9323 OLD BARNETTE PL HUNTERSVILLE, NC 28078

LOCATION BUFFALO SHOALS RD TO LAUREL COVE RD, TR HARBOR GATE, TR HARBOR WATCH, TL LAUREL RIDGE, 3RD LOT ON RIGHT

SUBDIVISION HARBOR WATCH BLOCK / SECTION IV LOT 115 LOT AREA 1.423 ACRES SITE CLASS. PS DESIGN FLOW 480 L.T.A.R. 0.30 GPD/FT²

Septic Tank: 1000 Gallons; STB 1017 Date 5-22-06

Pump Tank: 1000 Gallons; PT 17 Date 8-14-06

Pump Make: GOULDS Model WE05524HV Serial No.

Nitrification Field: No Fields 1 Square Feet 1600 Linear Feet 270

No Lines FIVE Trench Width 24" Max Trench Bottom Depth 36"

☑ New System ☐ Repair System Type: I, II, III, IV, V, VI

System Description: 50% REDUCTION, LOW-PRESSURE

Repair System Description: 50% REDUCTION, LOW-PRESSURE

Maintenance Agreement Required: ☑ Yes ☐ No

~~Gravel~~ Depth SAND 24"

☐ House/Mod. Home No. Bedrooms 4

☐ Mobile Home No. Bathrooms

☐ Business No. Employees

☐ Other

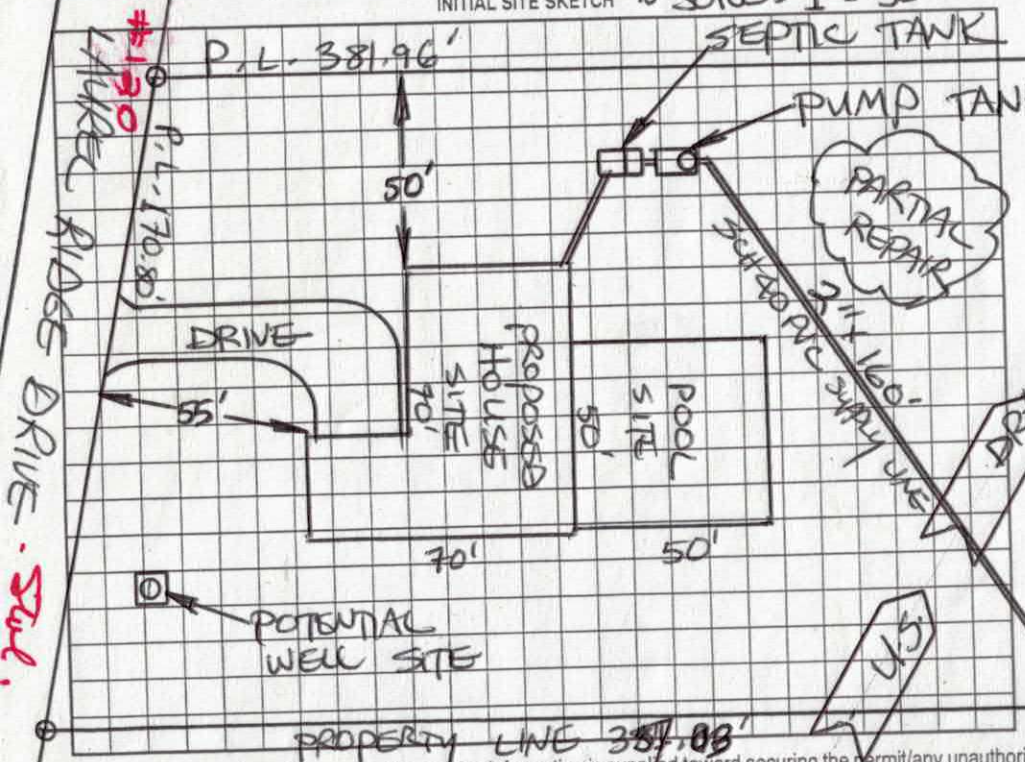
☐ Slab ☐ Crawl Space ☑ Basement w/plumbing ☐ Basement wo/plumbing

Water Supply: ☑ Individual ☐ Public ☐ Community WELL

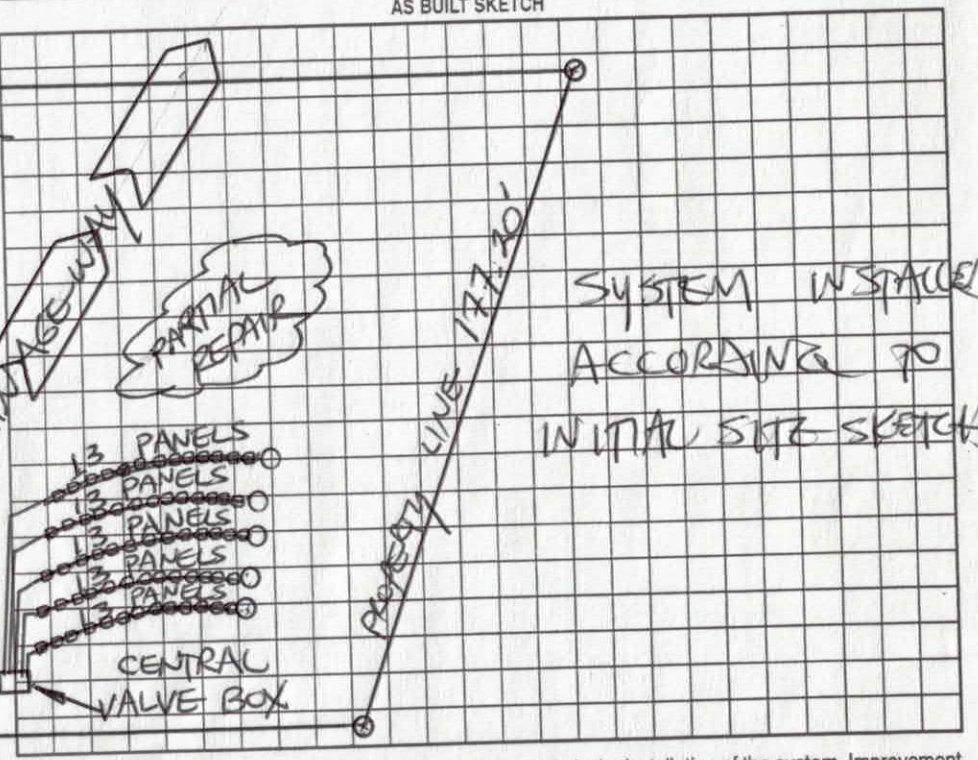
Comments:/Conditions: INSTALL 50% REDUCTION SYSTEM USING 65 PPBPS PANELS WITH LOW PRESSURE DISTRIBUTION. SEE ATTACHED SHEETS FOR PUMP & PRESSURE DISTRIBUTION REQUIREMENTS

Comments:/Conditions:

INITIAL SITE SKETCH ~ SCALE: 1" = 50'



AS BUILT SKETCH



Permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit with plat valid without expiration. Improvement Permit with site plan valid for sixty months. Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed: _____ date 8/12/05

Improvement Permit by: STEVE HEDRICK date 8-1-05

Authorization to Construct by: STEVE HEDRICK date 8-1-05

Installed by: DAVID YOUNTS

Operation Permit by: STEVE HEDRICK date 11-17-06

Existing System Inspection by: _____ date _____

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK

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

PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: LK Norman Prop. APPLICANT: _____ DATE EVALUATED: 5/27/98
ADDRESS: _____ APPLICATION DATE: _____ PROPERTY SIZE: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY RECORDED: _____
LOCATION OF SITE: Harbourtch 4 Lot 115
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☐ 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	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Pit 1	0-48"	Rd/Brn C/CL	SBK SS,SP,SE,	Fi-FR w/ Rocks & SAP inclus (few to many)				PS .3
2	Pit 2	0-48	Rd/Brn C/CL	SBK SS,SP,SE,	Fi-FR w/ SAP & Rock inclus (few to many)				PS .3
3	AH-1 0%	0-30"	Rd/Brn C/CL	S-SS,SP,SE,	Fi-FR w/ Indus of SAP & Common Mica flakes				PS .25
		30-37"	Rd/Brn C/CL	SS,SP,SE,FR	w/ Indus of SAP & common Mica flakes				.3
		37-47"	Rd/Brn Yl-Brn CL & SAP	mix					
4	AH-2	0-22"	Brn w/ Rd/Brn mot SCL/CL	S,P,SE,Fi					PS .25
		22"-48"	Rd/Brn C/CL	SS,SP,SE,Fi-FR	w/ Some Rock & SAP Indus				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: IREDELL
4711-32-4876

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: JOHN KOVATCH
ADDRESS: 9323 OLD BARNETTE PL, HUNTERSVILLE, NC 28078
PROPOSED FACILITY: 360 PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: HARBOR WATCH IV # 115

APPLICATION DATE: 8-14-05
DATE EVALUATED: 7.28.05
PROPERTY SIZE: 1.423 ACRES
PROPERTY RECORDED:

WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	SLIGHT N 8%	0-14	SBK SiC	FR SSP					PS 0.3
		14-48	SBK CL	FR SSP					
2	SLIGHT N 10%	0-16	SBK SiCL	FR SSP					PS 0.3
		16-48	SBK CL	FR SSP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	~~I~~	IV
Site LTAR	0.3	0.25*

OTHER FACTORS (.1946): NONE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. HEDRICK
OTHER(S) PRESENT:

COMMENTS: *(SEE ATTACHED)

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05
		O (Organic)	None	None

MINERALOGY/ CONSISTENCE

NEXP (Non-expansive)
SEXP (Slightly Expansive)
EXP (Expansive)

STRUCTURE

G (Single Grain)
M (Massive)
CR (Crumb)
GR (Granular)
SBK (Subangular Blocky)
ABK (Angular Blocky)
PL (Platy)
PR (Prismatic)

MOIST

VFR (Very Friable)
FR (Friable)
FI (Firm)
VFI (Very Firm v. Very Sticky)
EFI (Extremely Firm)

WET

NS (Non-sticky)
SS (Slightly Sticky)
S (Sticky)
VS (Very Sticky)
NP (Non-plastic)
SP (Slightly Plastic)
P (Plastic)
VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

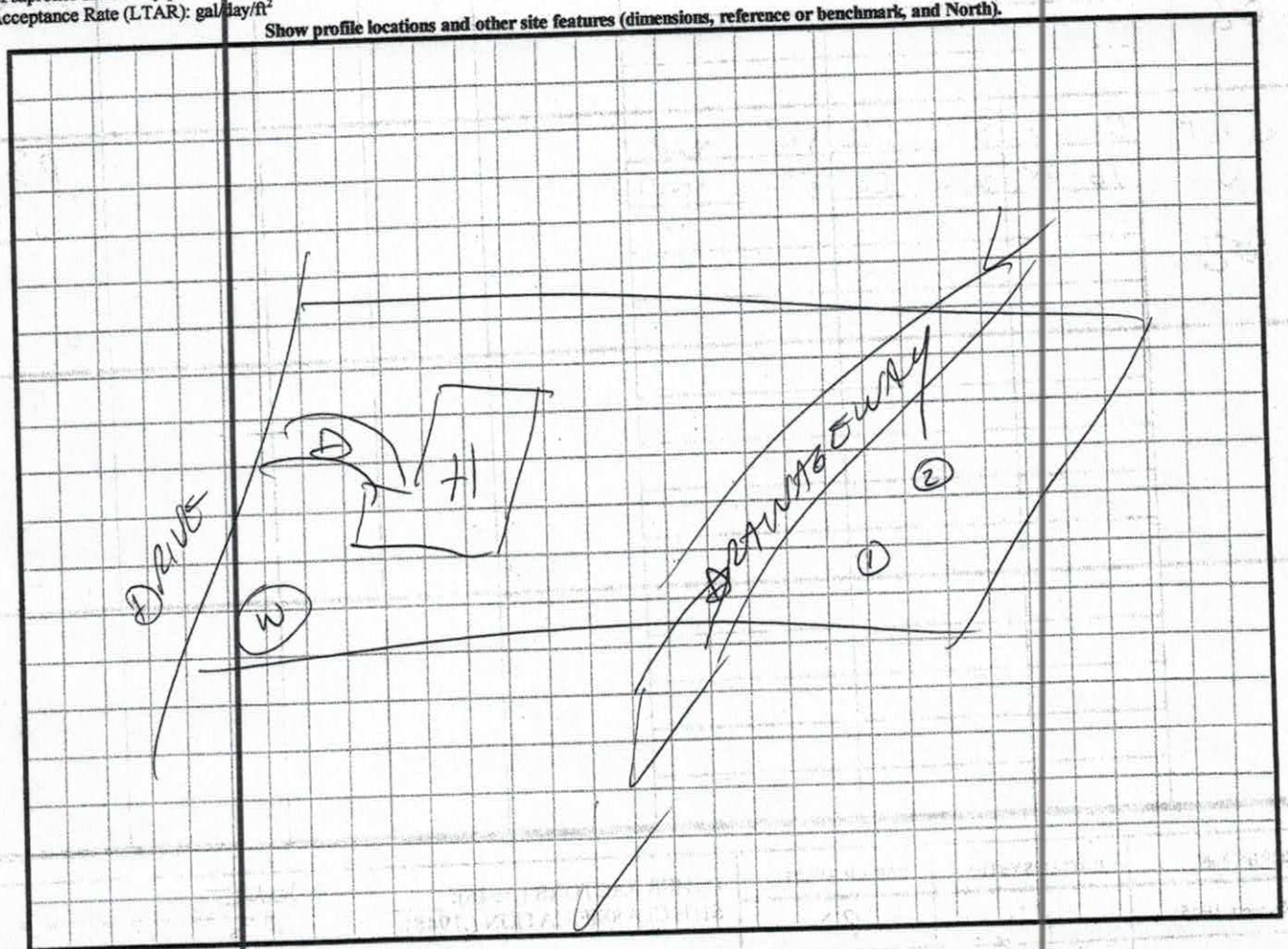
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



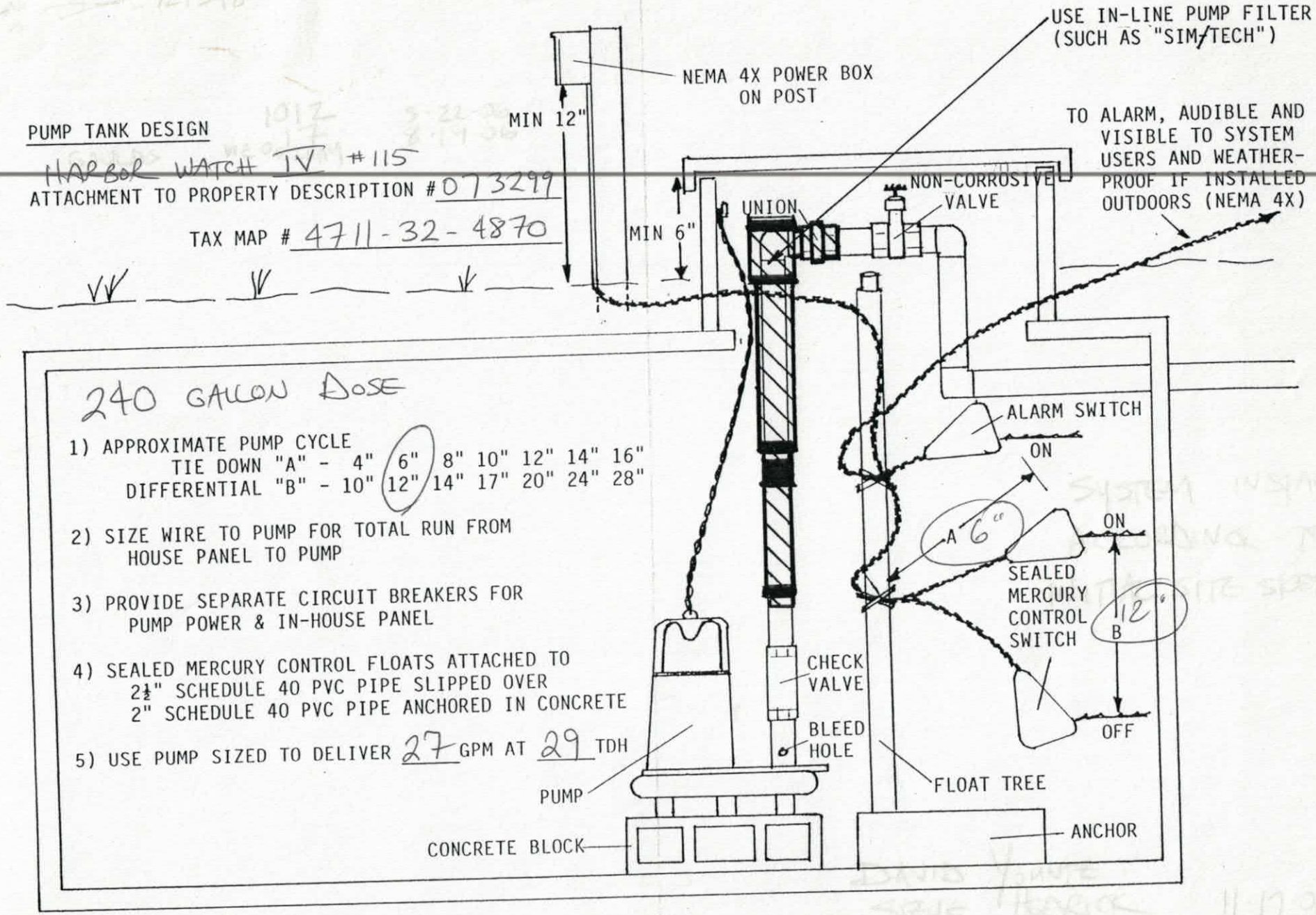
DENR (######)
Review (#####)

PUMP TANK DESIGN

HARBOR WATCH IV #115

ATTACHMENT TO PROPERTY DESCRIPTION # 073299

TAX MAP # 4711-32-4870



240 GALLON DOSE

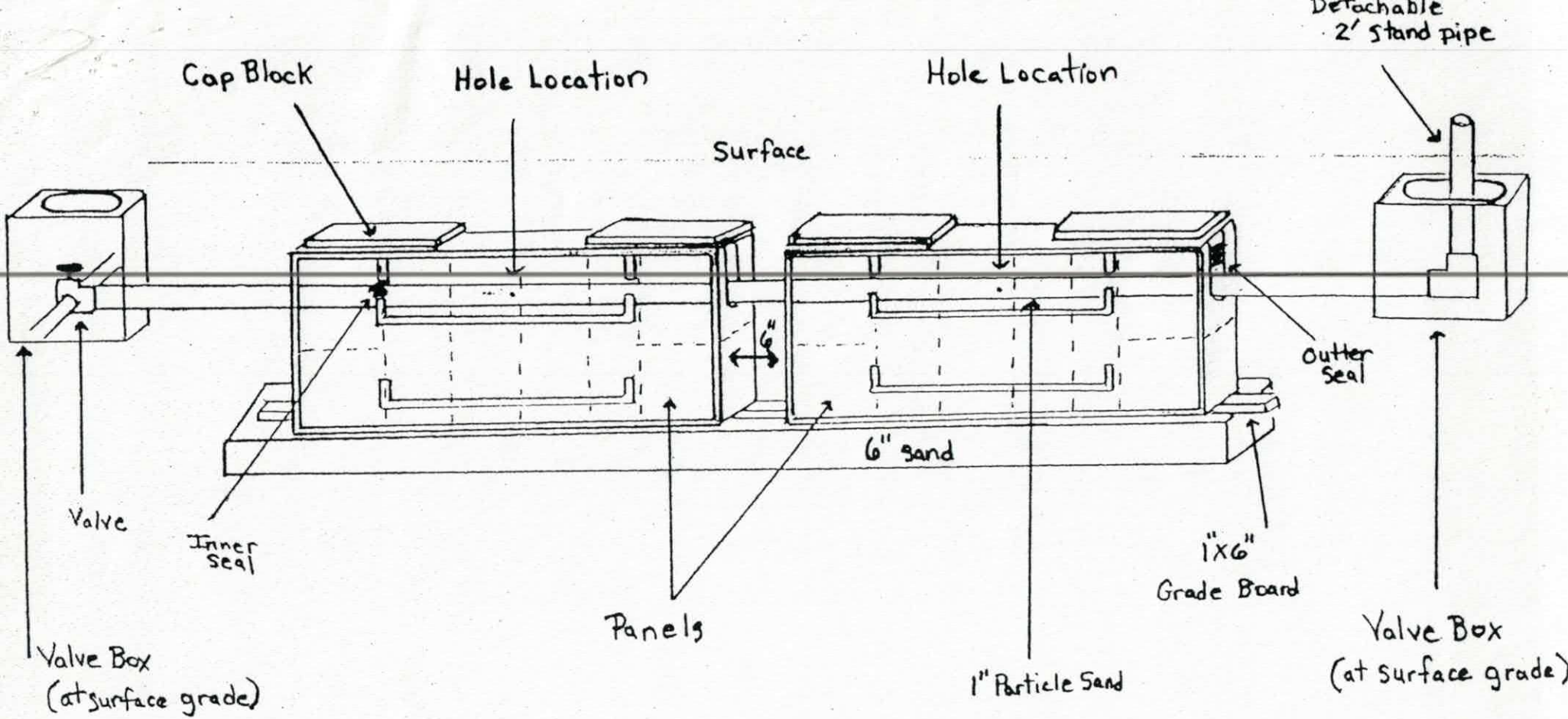
1) APPROXIMATE PUMP CYCLE
   TIE DOWN "A" - 4" (6") 8" 10" 12" 14" 16"
   DIFFERENTIAL "B" - 10" (12") 14" 17" 20" 24" 28"

2) SIZE WIRE TO PUMP FOR TOTAL RUN FROM HOUSE PANEL TO PUMP

3) PROVIDE SEPARATE CIRCUIT BREAKERS FOR PUMP POWER & IN-HOUSE PANEL

4) SEALED MERCURY CONTROL FLOATS ATTACHED TO 2½" SCHEDULE 40 PVC PIPE SLIPPED OVER 2" SCHEDULE 40 PVC PIPE ANCHORED IN CONCRETE

5) USE PUMP SIZED TO DELIVER 27 GPM AT 29 TDH



Pressure Dosed PPBPS

of panels 65.
Size holes 5/32". 1 hole per panel.
Approximate amount of sand needed ~45 tons
100 lbs. of partical sand per 8 panels.
Sidewalls raked and limed.
GPM 27.
TDH 29.

Comments

SCOUR TRENCH SIDEWALLS AND APPLY A LIGHT DUSTING of LIME PRIOR TO INSTALLING SAND.

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ___ Improvement Permit ✓ Authorization To Construct ___ BOTH ___ Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
   The following optional attachments may also be submitted: ___ Survey Plat, Scaled no more than 1 Inch = 60 Feet
   Place check ( ) beside whichever is submitted if applicable ___ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone	Work Phone
John Kovatch	9323 old Barnette Pl Huntersville, NC 28078	(704) 992-0160	517-5660
Owner Name: Same	Mailing Address	Home Phone	Work Phone

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
120 Laurel Ridge	Harbor Watch	SEC IV

Driving Directions: OLD MTN (R) BUFFALO SHOALS (L) LAUREL COVE (R) HARBOR GATE (R) HARBOR WATCH (L) LAUREL RIDGE (LOT #115)

****

5. **RESIDENTIAL Site Development Information:** *(Check or Complete ALL that apply)*

(✓) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
( ) Repair To Failing Septic System

Maximum Number of Bedrooms 4
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
(✓) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

****

6. **Proposed Water Supply:**

(✓) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

****

7. **Desired Septic System Type:** *(You may rank in order of preference, if any)*

( ) Alternative (✓) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other ___ ( ) No Preference

****

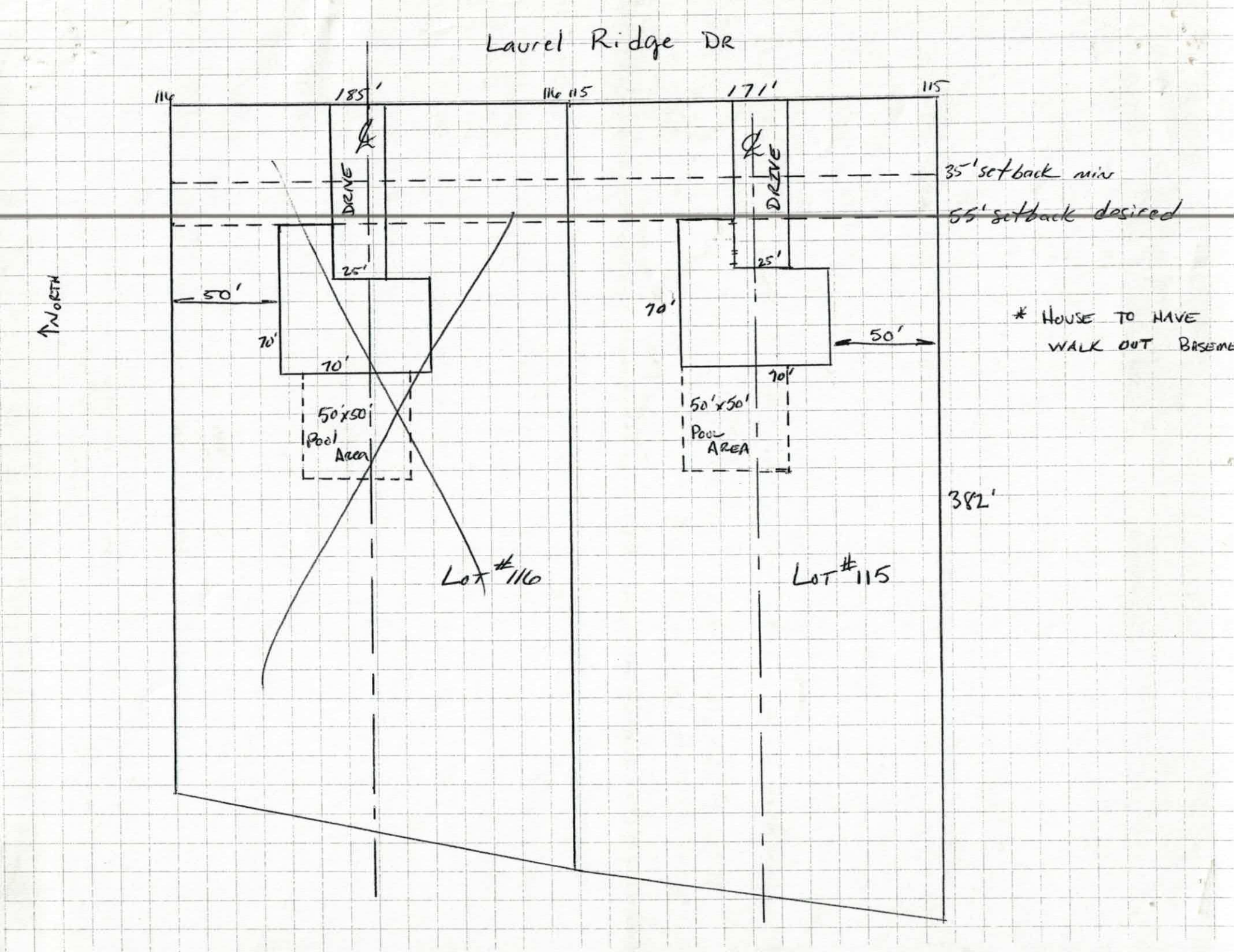
8. **Please Answer The Following To The Best of Your Ability:**

( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

****

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

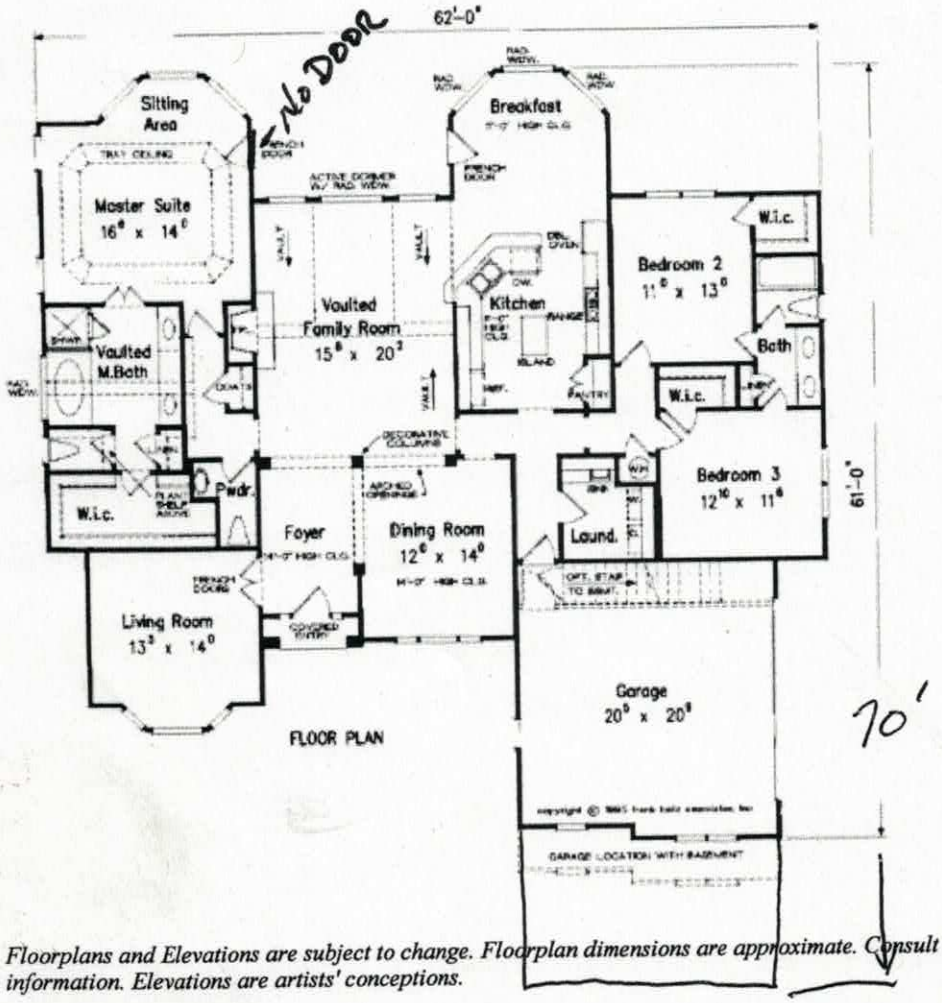
9. **Signature:** _____ Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE 10/14/05


Laurel Ridge DR
116
185'
116 115
171'
115
DRIVE
DRIVE
35' setback min
55' setback desired
25'
25'
50'
70'
70'
70'
50'x50'
Pool Area
70'
50'
70'
50'x50'
Pool AREA
382'
NORTH
* HOUSE TO HAVE WALK OUT BASEME
LOT #116
LOT #115

FRANK BETZ ASSOCIATES INC

HOMEPLANS *Designed for Today's Market.*

SALEM - Main Floor



Floorplans and Elevations are subject to change. Floorplan dimensions are approximate. Consult working drawings for actual dimensions and information. Elevations are artists' conceptions.

Acknowledgement Of
Plans Submittal ONLY!
Date 6/19/05
Date 7-28-05

Iredell County
ZONING PERMIT

227 South Center St. PO Box 788 Statesville, NC 28687 Phone 704-878-3118

Call Sanitarian between 8 a.m. & 9 a.m. Statesville 704-878-5305 Mooresville 704-664-5281

Permit #: 129348ZO
Proposed Use: Single Family
Location of Property: 120 LAUREL RIDGE Dr. Statesville NC 28677
Parcel #: 4711324870.000
Lot #: 115 Size: 1.423
Applicant: John & Diane Kovatch
Address: 9323 Old Barnette Place
Huntersville NC 28078
Phone: 704-992-0160
Property Recorded: Yes Site Plan Reviewed:

Subdivision:
Township: 1500 Fallstown
Zoning: Ra
Flood Plain: No Watershed: WSIV-PA
Owner: John & Diane Kovatch
Address: 9323 Old Barnette Place
Huntersville, NC 28078
Phone: 704-992-0160
Community Water: No Community Sewer:

If permitted the following minimum requirements must be met, unless Health Department requires more land area, or other qualifications are indicated in the comments.

Min. Lot Area: 21780 Min. Front Yard: 35 ft Min. Left Side Yard: 15 ft
Min. Lot Width: 100 Min: Rear Yard: 35 ft Min: Right Side Yard: 15 ft
Min. Number Parking Spaces: Max. Built Upon Area:

Comments:
replacement permit for Permit # 073299 Parcel # 4711316122

Directions:
Laural Cove, right Harborgate, right Harbor Watch, left Laural Ridge, property on right

FEES

Zoning Permit/Inspection Fee	☑	$45.00
Site Plan Review Fee	☐	$0.00
Environmental Health New System	☐	$0.00
Environmental Health Existing System	☐	$0.00
Total Fees:		$45.00

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Planning & Enforcement Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Applicant: _____ Date: 6/14/05

A non-refundable fee of $45.00 is charged on all permit applications.

DEBBIE WILLIAMS

Printed: 6/14/2005

of North Carolina, notwithstanding the place of execution, or the order in which the signatures of the Parties are affixed.

11. Entire Agreement and Amendment. This Agreement supersedes all prior negotiations, agreements and understandings between the Parties with respect to the subject matter hereof and constitutes the entire Agreement between the Parties with respect to the subject matter hereof. To be effective, any amendment or modification to this Agreement must be in writing and must be signed by the Parties.

12. Severability. In the event that any provision of this Agreement shall, for any reason, be determined to be invalid, illegal or unenforceable in any respect, the Parties shall negotiate in good faith and agree to such amendments, modifications or supplements of or to this Agreement or such other appropriate actions as shall, to the maximum extent practicable in light of such determination, implement and give effect to the intentions of the Parties as reflected in this Agreement, and the other provisions of this Agreement shall, as so amended, modified, supplemented or otherwise affected by such action, remain in full force and effect.

IN TESTIMONY WHEREOF, the Parties hereto have executed this Agreement in duplicate originals, one of which is retained by each of the Parties, the day and year first above written.

John Kovatch
(Owner)

(Physical Address)
120 Laurel Ridge
STATESVILLE, N.C. 28677

Attest:

Andy Young

Daniel R. Young
(Contractor)

Attest:

(hr:mecontract.gm)