IREDELL COUNTY SOIL/SITE EVALUATION

OWNER	CINDY GARRIS	GPD	480	LOT SIZE	.41 AC
APPLICANT	RUSSELL WILLIAMS	P. FACILITY	SFR	RECORDED	Y
ADDRESS	129 AQUA DR MOORESVILLE, NC 28117				
SUBDIVISION	LAKEVIEW SHORES		SECTION	A	LOT # 22
WATER SUPPLY		PUBLIC	INDIVIDUAL	WELL	SPRING	OTHER

PROFILE LANSCAPE POSITION SLOPE	H. DEPTH	MORPHOLOGY STRUCTURE TEXTURE	MORPHOLOGY CONSISTENCE MINEROLOGY	PROFILE FACTORS WETNESS COLOR	SOIL DEPTH	SAP CLASS	REST. HORIZON	LTAR
AB #1	0-15	C,M,ABK	SS,SP,SEXP,FR	NA	52"	FEW @45"	NA	0.30
	15-52	CL,M/W,SBK	SS,SP,SEXP,VFR					
LINEAR								
<=2%								
AB #2	0-37	C,M,ABK	SS,SP,SEXP,FR	NA	52"	FEW @37"	NA	0.25
	37-52	CL,W,SBK	SS,SP,SEXP,VFR					
LINEAR								
<=2%								
AB #3	0-33	C,M,ABK	SS,SP,SEXP,FR	NA	50"	FEW @33"	NA	0.25
	33-50	CL,W,SBK	SS,SP,SEXP,VFR					
LINEAR								
<=2%								

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS	LITTLE TO NO REPAIR
AVAILABLE SPACE	S	EXEMPT	SOIL EVALUATION BY	BEN ALDRIDGE
SYSTEM TYPE	GRAVITY 25% RED	EXEMPT	SITE EVALUATION BY	BEN ALDRIDGE
SITE LTAR	0.25	EXEMPT	OTHERS PRESENT	NONE

Lot 22 (129 Aqua Lane) Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.25
Primary System Type	**LP PPBPS**
No. Lines	6 (See Table)
Total Linear Feet	320
Trench Width	2' min.
Trench Spacing	8' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	105' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	35.5 gpm
Elevation head	Approx. 6'
Pressure head	3.0'
Friction head	2.3'
20% Contingency	2.3'
Total Head	13.6'
Pump Requirements	35.5 gpm @ 13.6' of head To be designed by installer.
Maximum Dosing Volume	255.6 gal -1.9 doses/day @ design flow*
Volume 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. 7.2 min.
Repair System	**Exempt**
Total Linear Feet	0
Repair LTAR	na

***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.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	System	Red	LPPPBPS	30 endfed	3.0	7	7	1 per panel	5/32"
2	System	Pink	LPPPBPS	60 endfed		13	13	1 per panel	5/32"
3	System	White	LPPPBPS	85 endfed		19	19	1 per panel	5/32"
4	System	Blue	LPPPBPS	70 endfed		16	16	1 per panel	5/32"
5	System	Red	LPPPBPS	50 endfed		11	11	1 per panel	5/32"
6	System	Orange	LPPPBPS	25 endfed		5	5	1 per panel	5/32"
						Total: 71	Total: 71 (1 in each panel turned up)		
				Total System: 320'					
				Total Repair: 0'					

Tank	Red	1000 gal (2 compartment)	1.0
Pump Tank	Red	1000 gal.	1.0
House	Blue	Right Rear	

Note: **Site is repair exempt. Very tight to fit system. System designed assuming lot would receive slight shaping before system installation. System is pumping down hill**

Survey For:

Julie Turbeville

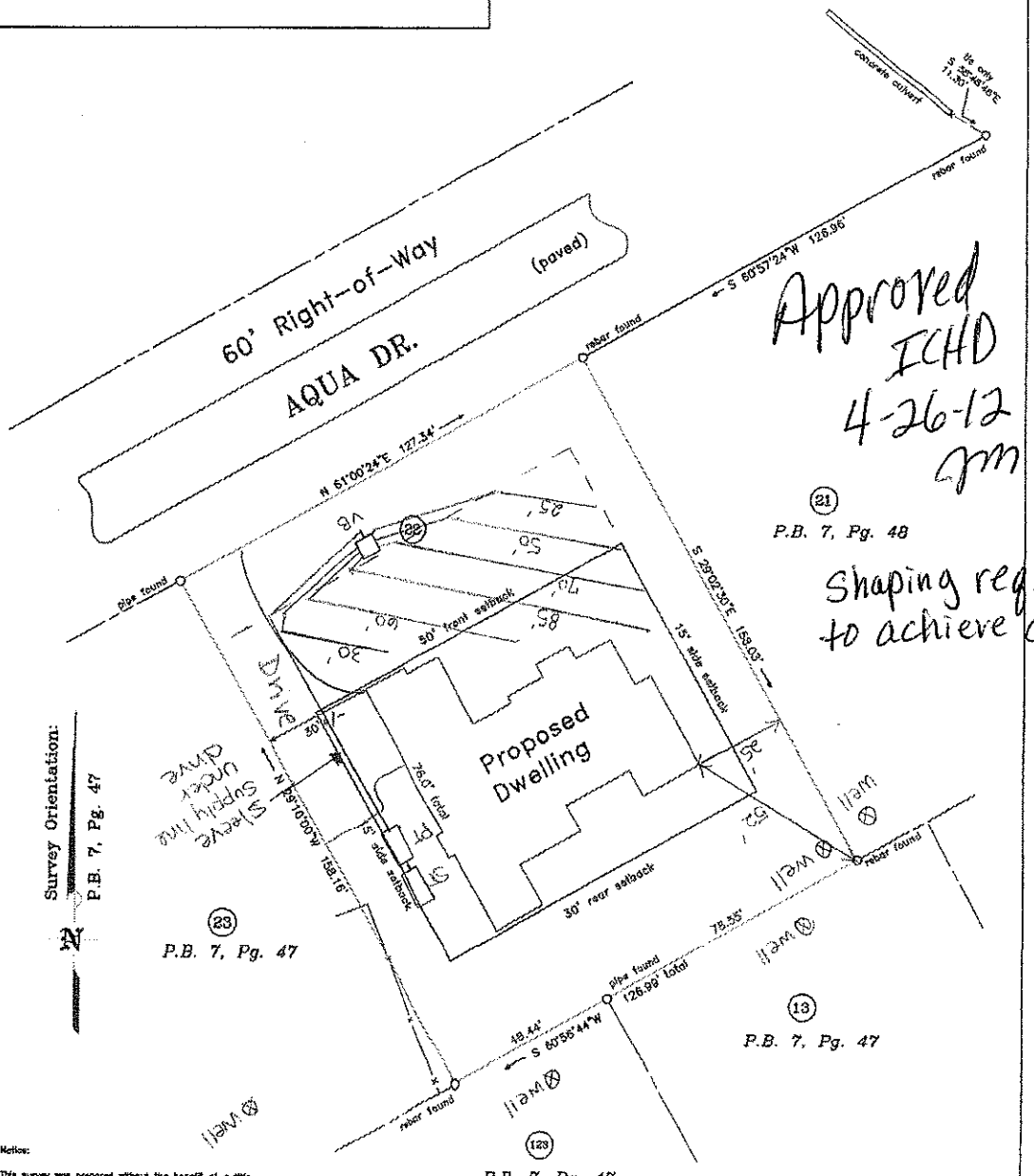
Date:	04-09-12	Deed Reference:	2073 - 389	Drawn by:	W.M.J.
Scale:	1" = 30'	Tax PIN:	4635-60-8652	Job:	201226-2

Lot 22 "Lakeview Shores" P.B. 7, Pg. 47
Davidson Twsp., Iredell Co., N.C.

AMERICAN PLANNING & SURVEYING
559 Bowles Farm Rd.
Statesville, N.C. 28625
Phone (704) 871-9197
Phone (704) 876-3220
Firm License # F-0987

30 0 30 60 90
GRAPHIC SCALE - FEET

For Review Purposes Only



Approved
ICHD
4-26-12
jm

Shaping required to achieve contour

Notice:

This survey was prepared without the benefit of a title abstract and is made subject to any discrepancies which may be disclosed by a thorough and accurate title search.

I, W. Matthew Jordan, Professional Land Surveyor, hereby certify that this plat was drawn under my supervision from an actual survey made under my supervision with a precision ratio of 1: 10,000+.

Witness my seal and signature this April 13th 2012.

NORTH CAROLINA PROFESSIONAL SEAL L-4414 LAND SURVEYOR MATTHEW JORDAN

For Review Purposes Only

W. Matthew Jordan, P.L.S. License #4414

Vicinity Map
(NO SCALE)

