Rec'd
09-25-13



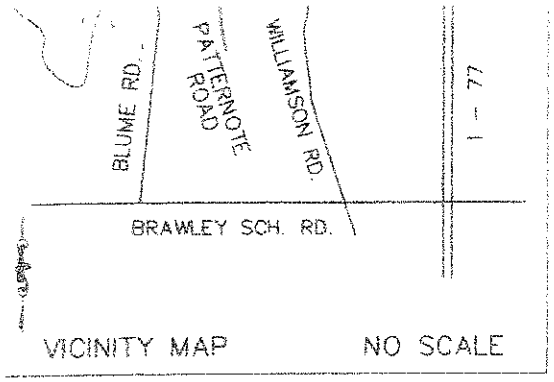
MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

Reference: Data Sheet for 316 Beaten Path, Mooresville, NC, PIN 4627939011
House Footprint: See attached
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.35 GPD/FT2 (initial), 0.3 GPD/FT2 (repair)
Proposed System Type: PPBPS
Proposed Repair System Type: PPBPS
Distribution: Low Pressure
Flow per Tap: 0.59 GPM
Hole Size & Material: 3/16"
System Flow: 22.42 GPM
Dosing Volume: 136.8 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 11.1'
Friction Head: 1'
Pressure Head: 2'
Total Dynamic Head: 14.1'
Supply Line Length: 75'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"
Proposed Trench Width: 24"

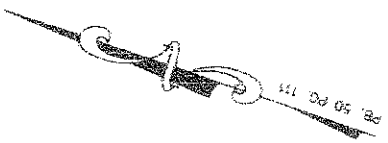
Line	Design Length	Actual Length	Elevation
White 1	**20' (4 panels)**	**21'**	**808.9'**
Blue 2	**42' (9 panels)**	**43'**	**806.5'**
Orange 3	**50' (11 panels)**	**50'**	**804.2'**
Pink 4	**60' (14 panels)**	**60'**	**802.2'**
White 5		60'	800.4'
Blue 6		47'	798.7'
Pink 7		28'	780.1'
White 8		24'	777.6'
Blue 9		42'	775.5'

Initial System: 172' **Repair System:** 201'
Pump tank: 797.8' **House corner:** 796.7' **Benchmark:** 807.7'

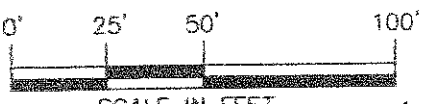
Comments:
In order to obtain an improvement permit for this lot a lift station/grinder pump will be necessary. In order to comply with State rules a separate 1000 gallon tank will be required in addition to the 1000 gallon septic and pump tanks. Please note MA&A has shot the elevations of all three tanks and it appears that unless there are modifications to the site, traffic graded tanks will be required. In order to keep all parts of the system 100' from the well, the tanks will have to be placed above the house. The system is laid out on 8' centers. A surface water diversion will need to be constructed along the property line below the house in the event that the repair system is ever installed. There is more repair possible in the area of AB 3.



VICINITY MAP NO SCALE



760' CONTOUR LINE TABLE		
LINE	BEARING	LENGTH
L16	N 55°00'39" W	2.82'
L17	N 55°00'39" W	15.60'
L18	N 27°11'58" W	9.97'
L19	N 05°28'25" E	5.48'
L20	N 31°22'22" W	10.70'
L21	N 31°22'22" W	16.15'
L22	N 25°15'02" W	10.28'
L23	N 07°24'40" E	14.28'
L24	N 26°22'02" E	20.27'
L25	N 12°31'45" E	27.32'
L26	N 36°18'27" E	25.31'
L27	N 49°05'12" E	19.19'
L28	N 52°28'34" E	28.28'
L29	N 59°52'19" E	25.44'
L30	N 18°39'35" E	12.62'
L31	N 05°05'56" E	30.41'



NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENT AND/OR RIGHTS-OF-WAY OF RECORD.
2) AREA COMPUTED BY THE COORDINATE METHOD.
3) EXISTING 760' & 761' CONTOUR ELEVATION BASED ON LAKE NORMAN LAKE LEVEL AT COWAN'S FORD DAM (READING ON 4/16/12) ELEVATION: 757.40'
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

PROPOSED HOUSE BOX & SEPTIC SURVEY

OF

LOT 1 CRESCENT LAND & TIMBER CORPORATION

SCALE 1" = 50'

DAVIDSON TWSP., IREDELL CO., N.C.

ACQUIRED BY: BLUE HARBOR BANK

LEGEND
- P.P. = POWER POLE
- DUKE POWER TRANS.
- E.I.P. = EXISTING IRON FOUND
- I.P.S. = #4 REBAR SET
- R/W = RIGHT-OF-WAY
- W = WELL

FIELD BOOK:
FILE: 13234REC
DC FILE:
TAX MAP NO: 4627939011