Order of Events: The Point Lot 310

6-15-16:

- 8:20am: Spoke with Richard Abernathy & septic finals were called in for 3 lots (Lots 105 & 106 in Chesapeake Point & Lot 310 for The Point. Asked if all could be inspected in succession and was told "No, we're not going to be ready in the Point until the afternoon (other inspections at 11:30 & 12:15pm) so inspection set for 4:00pm.
- Arrive at Lot 310 @ 4:30pm with Jordan (helper) present on lot (no others). Commence with inspection & determine inspected components (tanks, trenches) meeting compliance. Conveyance line partially installed. Asked if the trenches were going to be backfilled immediately and Jordan said he didn't have a machine on site to do so. Concluded inspection at 5:15pm.

- Severe Thunderstorms moved through area at ~11:15pm that evening

6-16-16:

- Stopped by site at 7:30am to check trenches. All trenches were still open with varying amounts of silt/clay & water having washed to bottom (see pictures) Septic tank hole had 4" on standing water with a silt/surge level of 8". Unclear whether tank floated. Left site at 7:56am.
- Called Richard Abernathy at 8:05am to inform him of findings. Left voicemail instruction NOT to backfill trenches & that the trenches would first need to dry out, silt removed & chambers re-inspected prior to permission to backfilling allowed.
- 8:20 arrived at Health Department & discussed finding with Supervisor (Adrian Pruett).
- 8:29: outgoing call (3 minutes) Verbally spoke with Richard and provided instruction (see above)
- 9:25 (incoming) Call from Richard Abernathy stating that he didn't believe there was silt/clay in trenches. Asked what needed to be done to remove the silt (if the chambers had to be removed). Told him that if the silt migrated beneath the chambers, then they would need to be pulled out and the silt/clay removed. Also informed him that all chambers would need to be re-shot by laser to ensure proper elevations maintained. Said he would contact the department when it was ready for re-inspection which he wasn't sure when it would be.
- 9:30-11:00: Out to different sites (Chesapeake Point Lot 105 & 106, Autumn Grove lot 38/38A & Bells Crossing lot 143 to check backfilling statuses of various drainfields installed from previous day.)

6-21-16 - Inspected drainfield laterals (6) that were installed again per installer + appeared to meet code + were silt/clay free. @ 1:30pm



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for The Point, Lot 310
House Footprint: See attached
Building Setbacks: 50' front/rear, 20' side
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: 25% Reduction
Distribution: Pressure manifold
Flow per Tap: 7.11 GPM
Tap Size & Material: ½" SCH 40
System Flow: 28.44 GPM
Dosing Volume: 175 gallons
Pump Run Time: 6.2 minutes
Elevation Head: 9.3'
Friction Head: 0.7'
Pressure Head: 2'
Total Dynamic Head: 12.0'
Supply Line Length: 40'
Septic/Pump Tank Size: 1500/1000 gallons
Proposed Trench Bottom: 36"

APPROVED JUL 11 2015

Line	Design Length	Actual Length	Elevation
Orange 1		52'	2.5'
Blue 2		83'	3.0'
White 3	**100'**	**100'**	**3.5'**
Pink 4	**100'**	**125'**	**4.0'**
Orange 5	**50'**	**50'**	**4.8'**
Blue 6	**50'**	**50'**	**4.8'**
White 7	**50'**	**52'**	**6.4'**
Pink 8	**50'**	**54'**	**7.4'**
Yellow 9		50'	9.3'
Blue 10		50'	10.9'
White 11		65'	12.3'

APPROVED JUL 11 2015

Line	Design Length	Actual Length	Elevation
Pink 12		65'	13.5'
Orange 13		60'	14.4'
Yellow 14		55'	15.0'
Blue 15		50'	15.6'

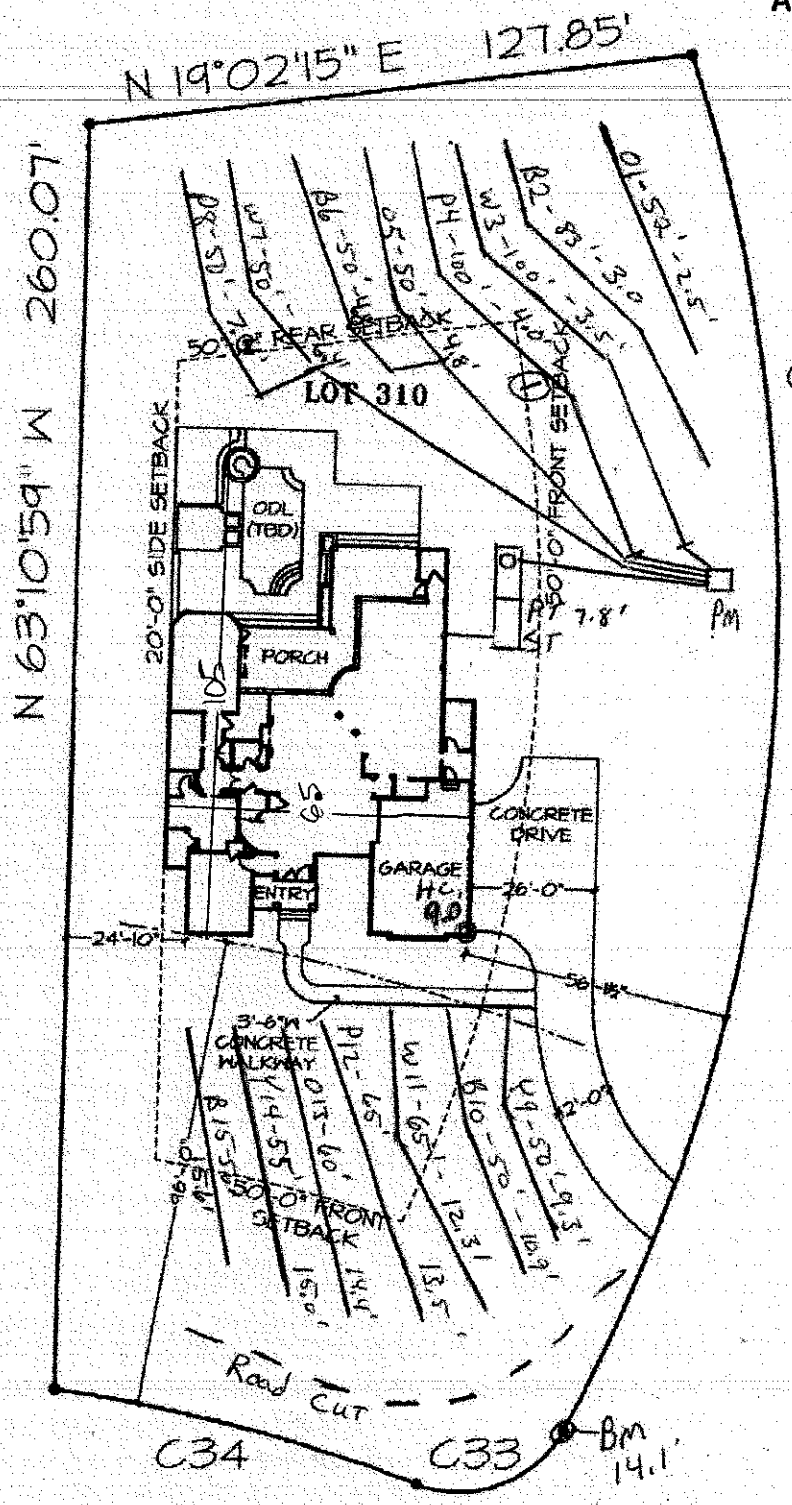
Initial System: 400' **Repair System:** 530'
Pump Tank: 7.8' **House Corner:** 9.0' **Benchmark:** 14.1'

Comments:
There will be four taps: one tap for W3; one tap for P4, one tap for O5, B6; one tap for W7, P8. O5 and B6 will be connected by end caps or drop boxes. W7 and P8 will be connected by end caps or drop boxes.

Arthur Rutenberg Homes

6/2/15
NEW LAYOUT

APPROVED JUL 11 2015



Scale
1" = 40'

CURVE DATA

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4626815930
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Robert Mendehall
ADDRESS: 826 Shetland Place NW Concord, NC
PROPOSED FACILITY: 4 bdrm
PROPOSED DESIGN FLOW (.1949): 480 GPD
LOCATION OF SITE: point 310, 238 Wild Harbor
APPLICATION DATE
DATE EVALUATED:
PROPERTY SIZE: 0.88 AC
PROPERTY RECORDED: 5/7/1999

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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 5%	0-28	R C SBK	FR SS SP	N/A	44"	F-C SAP PS	N/A	PS 0.3+
		28-44	RCL WSBK	FR SS SP					
		44-48	SL/LS SAP M	VFR SS SP					
2	LS 7%	0-32	R C SBK	FR SS SP	N/A	48"	Few SAP @41"	N/A	PS 0.3+
		32-48	R CL WSBK	FR SS SP					
3	LS 3%	0-30	R C SBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3+
		30-48	R CL WSBK	FR SS SP					
4	LS 7%	0-40	R C SBK	FR SS SP	N/A	40"	F-C SAP @ 20" PS	N/A	PS 0.3+
		40-48	SL/LS SAP M	VFR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	1200+ FT2
System Type(s)	25% Reduction	25% Reduction
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: M A & Associates
OTHER(S) PRESENT:

OK - 8-5-14

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4626815930
DATE OF EVALUATION: ____
COUNTY: IREDELL

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
5	LS 5%	0-26	R C SBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3+
		26-48	R CL WSBK	FR SS SP					
6	LS 3%	0-26	R C SBK	FR SS SP	N/A	48"	F-C SAP	N/A	PS 0.3+
		26-48	R CL WSBK	FR SS SP					

COMMENTS: ____

OK - 8-5-14 [signature]