Crescent Land and Timber Lot 115 Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Basement with Plumbing**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	3 (See Table)
Total Linear Feet	270
Trench Width	2' min.
Trench Spacing	8' min.
Min. Trench Depth (low side)	36"
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	280' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	30.5 gpm
Elevation head	Approx. 22.4'
Pressure head	3.0'
Friction head	4.5'
20% Contingency	6.0'
Total Head	35.9'
Pump Requirements	30.5 gpm @ 35.9' of head To be designed by installer.
Maximum Dosing Volume	219.6 gal -2.2 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.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	295
Repair LTAR	0.3

***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.**

Approved 11-10-14 ALP

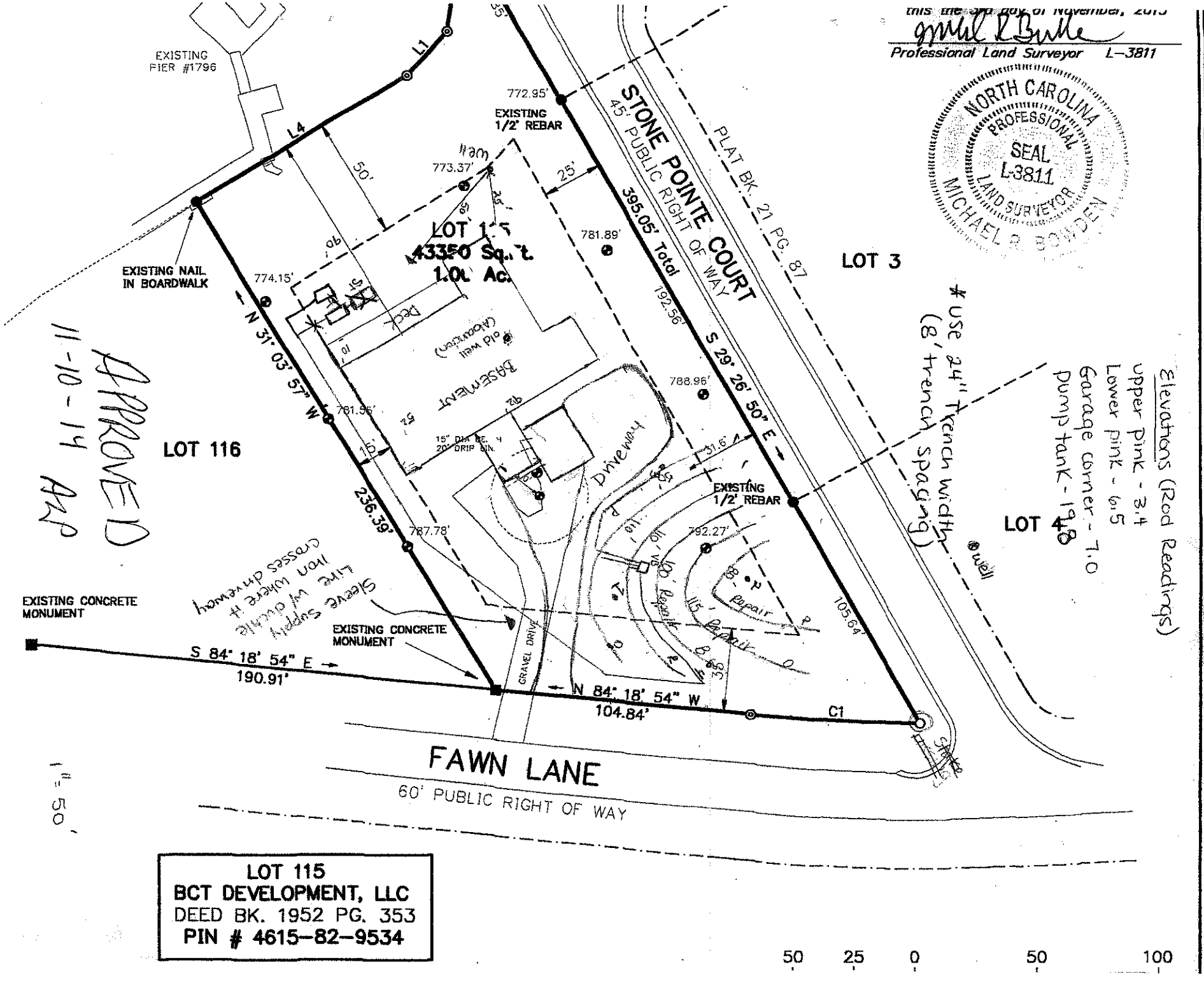
Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	Pink	LPPPBPS	80	3.4				
2	Repair	Orange	LPPPBPS	115					
3	Repair	Blue	LPPPBPS	100					
4	System	Red	LPPPBPS	110 centerfed		25	25	1 per panel	5/32"
5	System	Orange	LPPPBPS	110 centerfed		25	25	1 per panel	5/32"
6	System	Pink	LPPPBPS	50 endfed	6.5	11	11	1 per panel	5/32"
						Total: 61	Total: 61 (1 in each panel turned up)		
				Total System: 270'					
				Total Repair: 295'					

Tank	Red	1000 gal (2 compartment)	
Pump Tank	Red	100 gal.	19.8
House		Right front of garage	7.0

Note: **Plan changes house from 5 bedrooms to 4 bedrooms and moves tanks approx. 7 ft downhill to add a deck**
Septic and pump tanks should be placed in natural soil
Abandon existing tank if found during construction
Installer should verify all elevations and calculations prior to installation

Approved 11-10-14 AZP


this the 3rd day of November, 2015
Professional Land Surveyor L-3811
NORTH CAROLINA PROFESSIONAL SEAL L-3811 LAND SURVEYOR MICHAEL R. BOWLES
EXISTING PIER #1796
L1
L4
50'
772.95'
EXISTING 1/2" REBAR
STONE POINTE COURT
45' PUBLIC RIGHT OF WAY
PLAT BK. 21 PG. 87
LOT 3
773.37'
25'
781.89'
395.05' Total
192.56'
S 29° 26' 50" E
LOT 115
43350 Sq. Ft.
1.00 Ac.
EXISTING NAIL IN BOARDWALK
774.15'
N 31° 03' 57" W
236.39'
LOT 116
781.96'
788.96'
Deck
Basement
Old well (abandoned)
15" DIA RE. 4 20" DRIP DIA.
Driveway
31.6'
EXISTING 1/2" REBAR
787.78'
792.27'
LOT 4
105.64'
EXISTING CONCRETE MONUMENT
Sleeve supply line where it crosses driveway
EXISTING CONCRETE MONUMENT
S 84° 18' 54" E
190.91'
GRAVEL DRIVE
N 84° 18' 54" W
104.84'
C1
FAWN LANE
60' PUBLIC RIGHT OF WAY
1" = 50'
APPROVED
11-10-14
AP
Use 24" trench width (8' trench spacing)
Elevations (Rod Readings)
Upper Pink - 3.4
Lower Pink - 6.5
Garage corner - 7.0
Pump tank - 19.8
LOT 115
BCT DEVELOPMENT, LLC
DEED BK. 1952 PG. 353
PIN # 4615-82-9534
50 25 0 50 100

Project #:
Property ID #:
County: Iredell

SOIL/SITE EVALUATION

Sheet:
Date Evaluated: 11/25/13

Owner or Client: Oscar Kholer Homes
Proposed Facility: Design Flow: 600gpd
Location of Site: Lot 115 Fawn Lane
Soil Described By: KMS Others Present:
Antecedent Moisture: Dry Weather:

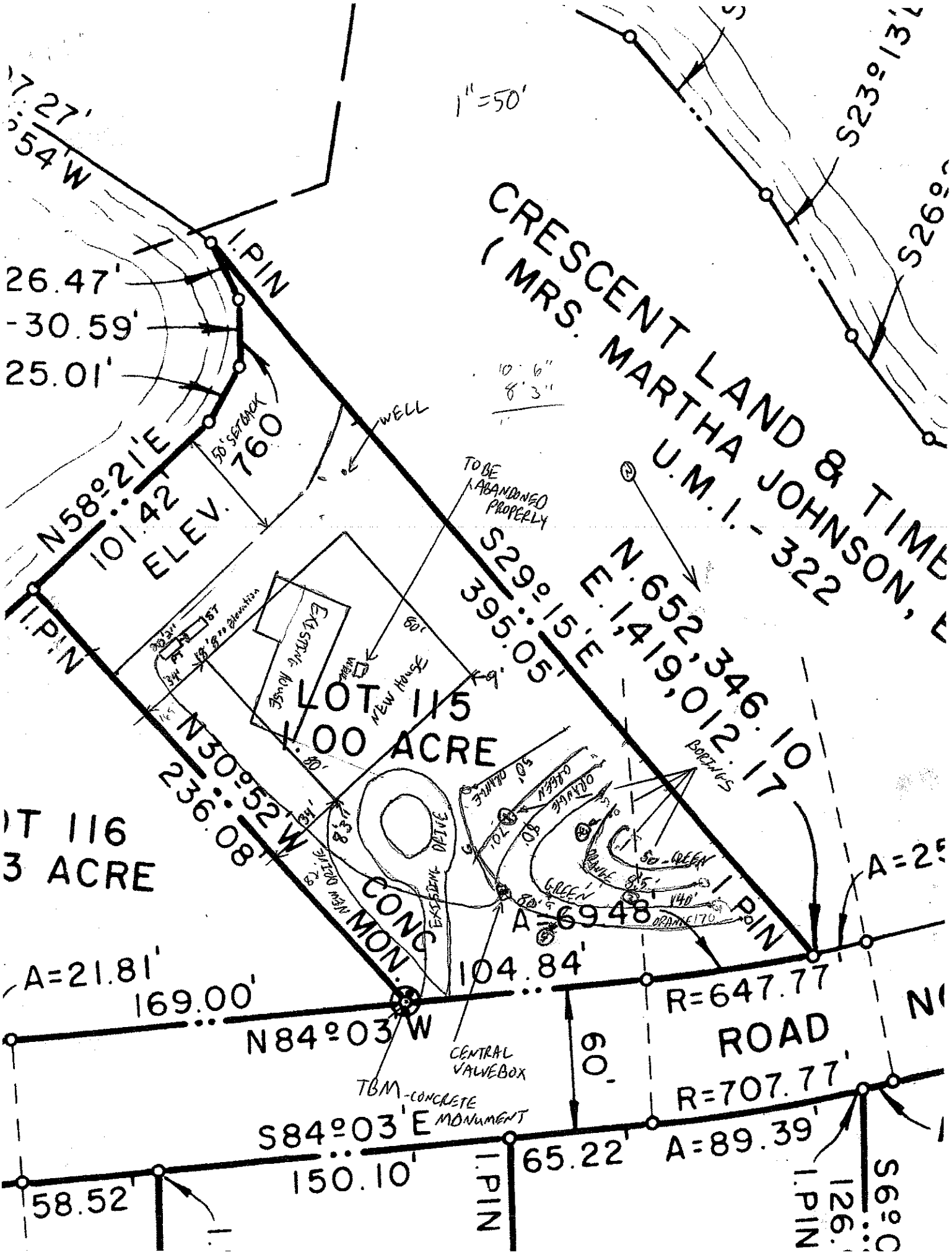
Property Size: 1.00 Ac
Site LTAR: Int. 0.3 Rep. 0.3
Site Classification: PS

Water Supply: [ ] Public [ ] Community [X] On-Site Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY: Structure/ Texture	SOIL MORPHOLOGY: Consistence Mineralogy	PROFILE FACTORS: Inclusions	PROFILE FACTORS: Matrix Color	PROFILE FACTORS: Mottles	PROFILE FACTORS: Profile Notes (Restr Horiz, Soil Depth, Coarse Frag, etc...)	Profile Class & LTAR
1	L 3-5%	0-3	Mo GR SL	FR NS/NP		Br			0.3 PS
		3-32	Mo SBK C	FR SS/SP		Red			
		32-42	WK SBK C	FR SS/SP		Red			
		42-50	WK SBK CL	FR SS/SP	F/C Sap	Red			
2	LN 2-5%	0-6	Mo GR SL	FR NS/NP		Br			0.3 PS
		6-27	Mo SBK C	FR SS/SP		Red			
		27-48	WK SBK CL	FR SS/SP	F Sap	Red			
3	L 5%	0-4	Mo GR SL	FR NS/NP		Br			0.3 PS
		4-32	Mo SBK C	FR SS/SP		Red			
		32-48	WK SBK CL	FR SS/SP	F Sap	Red			
4	L 3-5%	0-4	Mo GR SL	FR NS/NP		Br			0.3 PS
		4-30	Mo SBK C	FR SS/SP		Red			
		30-48	WK SBK C	FR SS/SP	F Sap	Red			
5									
6									

OMMENTS:
Soil very dry

Approved by
ICHD
ALP 12-6-13


1"=50'
CRESCENT LAND & TIMB
MRS. MARTHA JOHNSON,
U.M.I.-322
S23°13'
S26°
N.652,346.10
E.1,419,012.17
S29°15'E
395.05'
I PIN
I PIN
I PIN
I PIN
N58°21'E
101.42
ELEV.
26.47'
-30.59'
25.01'
50' SETBACK
760
WELL
TO BE ABANDONED PROPERLY
EXISTING HOUSE
NEW HOUSE
LOT 115
1.00 ACRE
N30°52'W
236.08'
LOT 116
3 ACRE
CONC MON.
EXISTING DRIVE
A=69.48'
104.84'
A=21.81'
169.00'
N84°03'W
CENTRAL VALVEBOX
TBM-CONCRETE MONUMENT
S84°03'E
150.10'
65.22'
58.52'
R=647.77'
R=707.77'
A=89.39'
60'
ROAD
I PIN
I PIN
S6°0
126.
BOATHOUSE
GREEN
ORANGE
140'
170'
A=25

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

Sheet _1_ *of* _1_
PROPERTY ID #: _____
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER/APPLICANT: LAURA TOMCZAK _____ APPLICATION DATE _____
ADDRESS: 121 ROLLING HILLS RD MOORESVILLE _____ DATE EVALUATED: 5/09/05
PROPOSED FACILITY: RES _____ PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 1AC
LOCATION OF SITE: FAWN LANE LOT 115 SEC 6 CL&T _____ PROPERTY RECORDED: YES
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	BROAD NOSE 5%	0-2	BSCL GR	FRI SSSP SEXP	NA	46	NA	NA	PS .3GPD/FTSQ
		2-46	RC SBK	FRI SSSP SEXP					
2	BROAD NOSE 5%	0-2	BSCL GR	FRI SSSP SEXP	NA	48	NA	NA	PS .3GPD/FTSQ
		2-48	RC SBK	FRI SSSP SEXP					
3	BROAD NOSE 5%	0-8	BSCL GR	FRI SSSP SEXP	NA	48	NA	NA	PS .3GPD/FTSQ
		8-48	RC SBK	FRI SSSP SEXP					
4	BROAD NOSE 5%	0-4	BSCL GR	FRI SSSP SEXP	NA	48	NA	NA	PS .3GPD/FTSQ
		4-48	RC SBK	FRI SSSP SEXP					

LICENSED SOIL SCIENTIST Samuel A. Rollans 1231 STATE OF NORTH CAROLINA 5/17/05

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	534 SQFT	534 SQFT
System Type(s)	LPPPBPS	LPPPBPS
Site LTAR	.3GPD/FTSQ	.3GPD/FTSQ

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

COMMENTS:

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

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Laura Tomczak APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: 5/19/05
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Clot Sec 6 Lot 116 PROPERTY RECORDED: _____
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

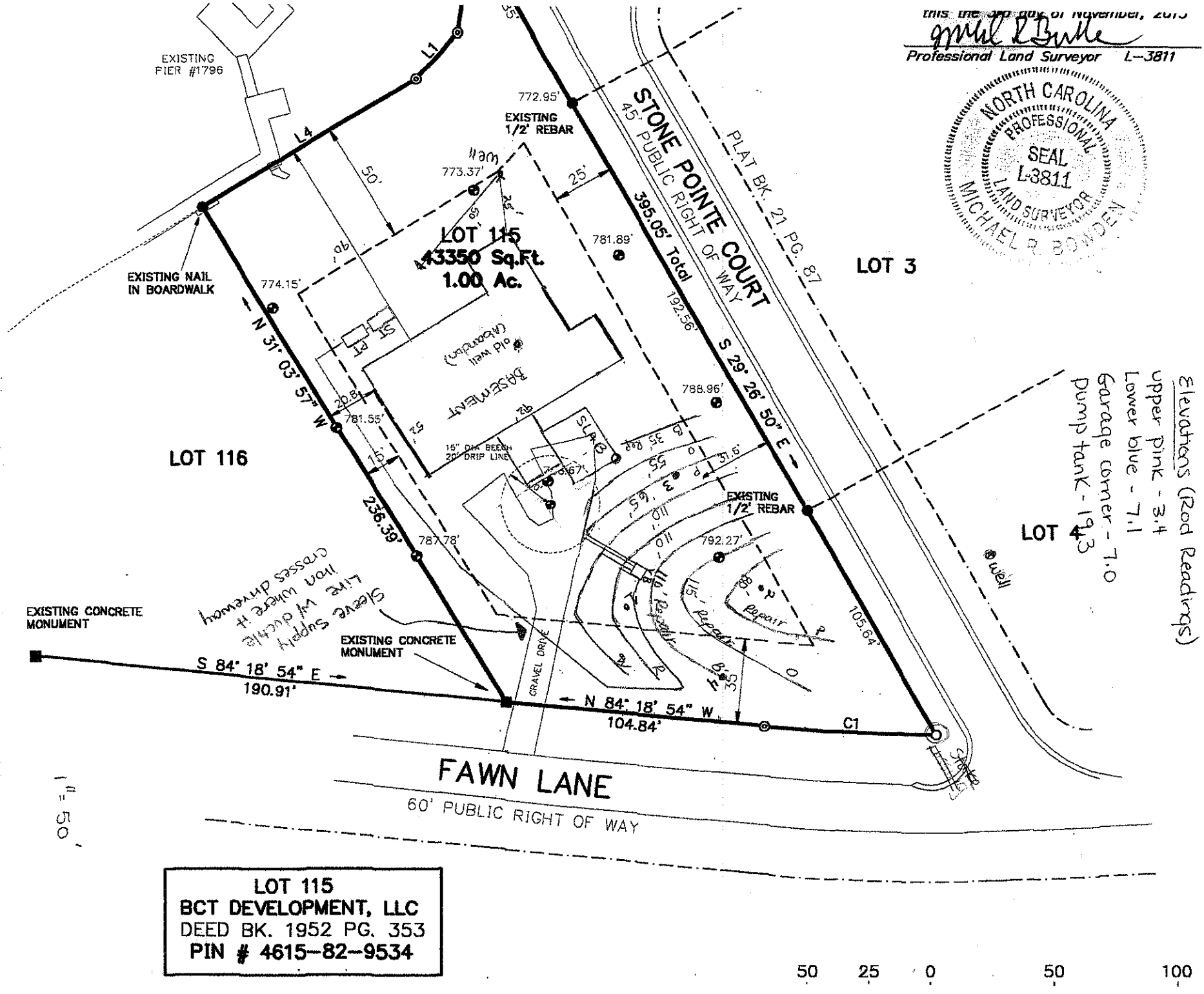
★ well needs to be abandoned prior to A/C.

Specify inline filter on pump.

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1		0-4"	Brw SCL	GR FR	SP, SE				PS .3
		4"-48"	R C	M-wSBK SS					
2									
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
System Type(s)		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1942): _____
EVALUAT _____


this the 3rd day of November, 2015
Professional Land Surveyor L-3811
NORTH CAROLINA PROFESSIONAL SEAL L-3811 LAND SURVEYOR MICHAEL R. BOWDEN
EXISTING PIER #1796
EXISTING NAIL IN BOARDWALK
L1
L4
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772.95'
EXISTING 1/2" REBAR
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PLAT BK. 21 PG. 87
LOT 3
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N 31° 03' 57" W
236.39'
BASEMENT
old well (abandon)
PT
ST
20.8'
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15' DIA BEECH 20' DRIP LINE
788.96'
S 29° 26' 50" E
LOT 116
EXISTING 1/2" REBAR
792.27'
787.78'
LOT 4
well
105.64'
EXISTING CONCRETE MONUMENT
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