

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

Reference: Data Sheet for Davidson Downs Lot 6
House Footprint: 47' x 60'
Building Setbacks: 35' front/rear, 15' side
Water Source: Community well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT2 (initial), 0.3 GPD/FT2 (repair)
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure manifold
Flow per Tap: 2 @ 5.48 GPM, 2 @ 7.11 GPM
Tap Size and Material: 2 @ ½" SCH 80, 2 @ ½" SCH 40
System Flow: 26.8 GPM
Dosing Volume: 210 gallons
Pump Run Time: 7.8 minutes
Elevation Head: 17.5'
Friction Head: 2.4'
Pressure Head: 2'
Total Dynamic Head: 21.9'
Supply Line Length: 130'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length	Elevation
Red 1	**105'**	**115'**	**1.8'**
White 2	**105'**	**125'**	**2.3'**
Pink 3	**135'**	**136'**	**3.2'**
Blue 4	**135'**	**157'**	**4.4'**
Yellow 5		50'	5.8'
Red 6		51'	7.5'
Pink 7		63'	9.9'
White 8		67'	12.3'
Blue 9		65'	14.5'
Yellow 10		75'	16.5'

Initial System: 480' **Repair System:** 371'
Pump Tank: 14.3' **House Corner:** 15.2' **Benchmark:** 1.0'

Comments:
R1, W2 – ½" SCH 80
P3, B4 – ½" SCH 40
There are a few minor topographical features in the initial and repair areas that can be blended out when clearing.

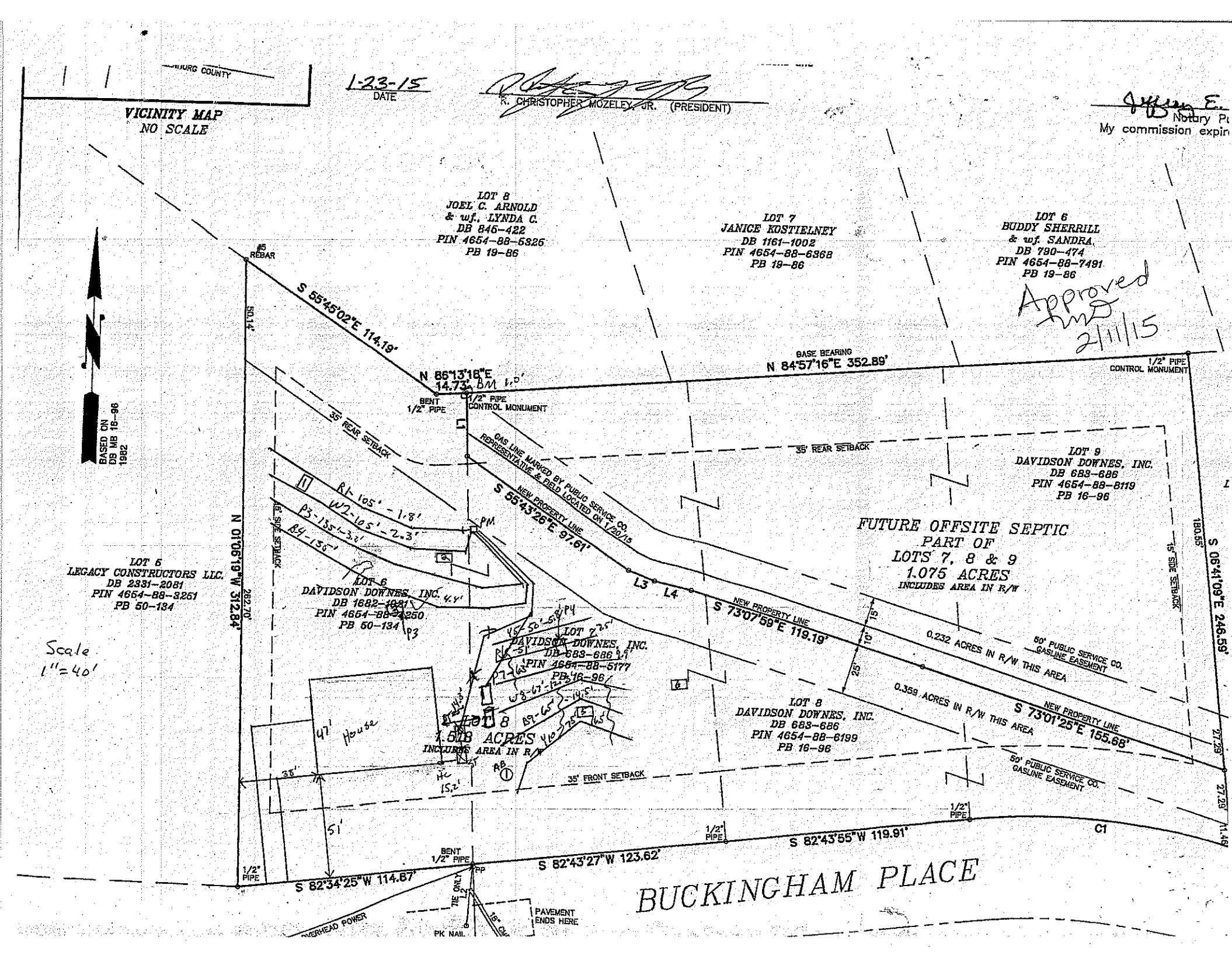
Shane Cashion

From: Mike Athanas <mike@michaelathanas.com>
Sent: Friday, August 21, 2015 11:53 AM
To: Shane Cashion
Subject: Re: Design Change

Sure Shane. Anything I can do to help.

Sent from my iPhone

> On Aug 21, 2015, at 9:13 AM, Shane Cashion <shane.cashion@co.iredell.nc.us> wrote:
>
> Mike,
>
> On the install for this one the installers ran the supply line for the initial through a small section of the repair. The supply line was dug about 1 foot below grade. I believe if the repair would ever have to be utilized that this would not impact the system as it was approved soils to use a 36" trench bottom. I noted this on the permit and the submitted design sheet. If you think this is fine and we can move on with the project please send a memo giving it the "OK". If not we can go to the drawing board.
>
> Thanks
>
>
> Shane Cashion
> Iredell County Health Dept.
> 704-664-3703
> shane.cashion@co.iredell.nc.us
>
>
>
> Pursuant to North Carolina General Statues Chapter 132, Public
> Records, this electronic mail message and any attachments hereto, as
> well as any electronic mail messages that may be sent in response to
> it may be considered public record and as such are subject to request
> and review by anyone at any time. Also, the information contained in
> this message may be privileged and confidential. We will withhold
> confidential correspondences that are tagged as "Confidential" from
> public record requests. If this e-mail contains protected health
> information or personal identifying information, you are hereby
> notified that any dissemination, distribution or copying of this
> communication is strictly prohibited, except as permitted by law. If
> you have received this communication in error, please notify the
> sender immediately by replying to this message and deleting it from
> your computer. Thank You
>
>
>
>
> -----Original Message-----


VICINITY MAP
NO SCALE
1-23-15
DATE
R. CHRISTOPHER MOZELEY, JR. (PRESIDENT)
Notary Pu
My commission expir
Approved
2/11/15
LOT 8
JOEL C. ARNOLD
& wf. LYNDA C.
DB 846-422
PIN 4654-88-5325
PB 19-86
LOT 7
JANICE KOSTIELNEY
DB 1161-1002
PIN 4654-88-6368
PB 19-86
LOT 6
BUDDY SHERRILL
& wf. SANDRA
DB 790-474
PIN 4654-88-7491
PB 19-86
#5 REBAR
S 55°45'02"E 114.19'
N 86°13'18"E 14.73'
BENT 1/2" PIPE
1/2" PIPE CONTROL MONUMENT
BASE BEARING
N 84°57'16"E 352.89'
1/2" PIPE CONTROL MONUMENT
BASED ON DB MB 18-96 1982
35' REAR SETBACK
GAS LINE MARKED BY PUBLIC SERVICE CO. REPRESENTATIVE & FIELD LOCATED ON 1/20/15
NEW PROPERTY LINE
S 55°43'26"E 97.61'
35' REAR SETBACK
LOT 9
DAVIDSON DOWNES, INC.
DB 683-686
PIN 4654-88-8119
PB 16-96
FUTURE OFFSITE SEPTIC
PART OF
LOTS 7, 8 & 9
1.075 ACRES
INCLUDES AREA IN R/W
N 01°06'19"W 312.84'
282.70'
50.14'
15' SIDE SETBACK
LOT 6
LEGACY CONSTRUCTORS LLC.
DB 2331-2081
PIN 4654-88-3251
PB 50-134
LOT 6
DAVIDSON DOWNES, INC.
DB 1682-1931
PIN 4654-88-4250
PB 50-134
RT-105'-1.8'
WZ-105'-2.3'
P3-135'-3.2'
B4-135'
PM
L3
L4
NEW PROPERTY LINE
S 73°07'59"E 119.19'
15'
10'
25'
0.232 ACRES IN R/W THIS AREA
50' PUBLIC SERVICE CO. GASLINE EASEMENT
0.359 ACRES IN R/W THIS AREA
NEW PROPERTY LINE
S 73°01'25"E 155.68'
50' PUBLIC SERVICE CO. GASLINE EASEMENT
180.55'
15' SIDE SETBACK
S 06°41'09"E 246.59'
27.29'
27.29'
11.46'
Scale
1"=40'
LOT 7
DAVIDSON DOWNES, INC.
DB 683-686
PIN 4654-88-5177
PB 16-96
LOT 8
1.518 ACRES
INCLUDES AREA IN R/W
41' House
38'
51'
35' FRONT SETBACK
LOT 8
DAVIDSON DOWNES, INC.
DB 683-686
PIN 4654-88-6199
PB 16-96
1/2" PIPE
S 82°43'55"W 119.91'
C1
BENT 1/2" PIPE
S 82°43'27"W 123.62'
1/2" PIPE
S 82°34'25"W 114.67'
PP
TIE ONLY
PK NAIL
PAVEMENT ENDS HERE
OVERHEAD POWER
BUCKINGHAM PLACE

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

PROPERTY ID #: see comments_
COUNTY: _IREDELL__

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

OWNER: _Chris Mozeley_____ APPLICATION DATE_____
ADDRESS: __Denver, NC_____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: _see comments____
LOCATION OF SITE: _143 Buckingham Place, Davidson Downs lot 6-9_____ PROPERTY RECORDED: _____
WATER SUPPLY: Private ☒ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

OK MD 2/11/15

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
PIT 1	LS 5%	0-19	R C SBK	FR SS SP	N/A	36"	F-C SAP	N/A	PS 0.3
		19-36	R CL WSBK	FR SS SP					
		36-60	SL SAP M	VFR SS SP			PS		
	OK	SAP @ 32"							
PIT 2	LS 5%	0-17	Br SCL WSBK	FR SS SP	Few Mn, Few Litho	56"		N/A	PS 0.25-0.275
		17-44	R C ABK	FR SS SP					
		44-56	R C WSBK	FR SS SP			Com SAP		
	OK								
		Water in Pit @ 43"							
PIT 3	LS 5%	0-6	Br CL WSBK	FR SS SP	Mn @ 34" Few YB	55"	N/A	N/A	PS 0.25
		6-25	R C ABK	FR SS SP					
		25-55	R C/CL WSBK	FR SS SP					
	OK								
		Water in Pit @ 42"							
PIT 4	LS 20%	0-6	Br CL WSBK	FR SS SP	N/A	37"	F-C SAP	N/A	PS 0.3
		6-37	R CWSBK/ABK	FR SS SP					
	OK	37-57	L SAP M	VFR SS SP			PS		

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	742 FT2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.25	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): __PS_____
EVALUATED BY: __M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: This is a lot combination. At the time of submission, it has not been recoreded.

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

water in Pit @ 42"

PROPERTY ID #: Davidson downs 6-9
DATE OF EVALUATION: _____
COUNTY: IREDELL

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
PIT 5	LS 20% OK	0-3	Br CL WSBK	FR SS SP	N/A	15"	F-C SAP	N/A	PS 0.5
		3-15	R C SBK	FR SS SP					
		15-65	SL SAP M	VFR SS SP			PS		
		SAP — 18"							
PIT 6	LS 10%	0-5	Br CL WSBK	FR SS SP	YB CHR 2 @ 38"	38"	N/A	N/A	PS 0.225 NOT IN SYSTEM AREA
		5-38	R C ABK	FR SS SP					
AB 1	LS 7%	0-32	R C SBK	FR SS SP	N/A	32"	Few SAP	N/A	PS 0.3
		32-48	L SAP M	FR SS SP					
		v							

COMMENTS: _____