

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

Reference: Data Sheet for Chesapeake Point Lot 51/51A
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side
Water Source: Community well
Number of Bedrooms: 6/720 GPD
Proposed LTAR: 0.3 GPD/FT2 (initial-ICHD), 0.1 GPD/FT2 (repair)
Proposed System Type: 25% Reduction-offsite
Proposed Repair System Type: Drip irrigation
Distribution: Pressure manifold
Flow per Tap: 7.11 GPM
Tap Size and Material: ½" SCH 40
System Flow: 28.44 GPM
Dosing Volume: 262.5 gallons
Pump Run Time: 9.2 minutes
Elevation Head: TBD
Friction Head: TBD
Pressure Head: 2'
Total Dynamic Head: TBD
Supply Line Length: TBD
Septic/Pump Tank Size: 1500/1500 GALLONS
Proposed Trench Bottom: 24-36"

JM CAF 6/1/14

Line	Design Length	Actual Length	Elevation
White 1		53'	
Pink 2	**75'**	**95'**	**T**
Red 3	**75'**	**90'**	
Blue 4	**75'**	**80'**	
Red 5	**75'**	**80'**	
White 6	**75'**	**80'**	**B**
Orange 7	**75'**	**80'**	
Pink 8	**80'**	**80'**	
Orange 9	**70'**	**70'**	**D**
Blue 10		58'	

Initial System: 600' **Repair System:** Approx. 10,500 ft2
Pump Tank: TBD **House Corner:** TBD **Benchmark:** TBD

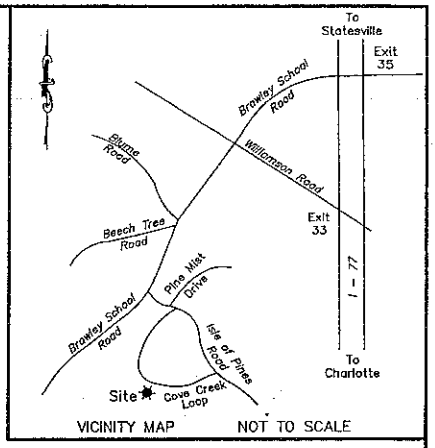
Comments:
This lot currently has a permit for a four bedroom residence offsite. M A & Associates is proposing a six bedroom with the initial offsite and the repair onsite. The offsite easement is current permitted as 0.3 GPD/FT2. We are using the previously approved lay out on the offsite easement and changing the design. The pressure manifold will use 4 taps feeding 2 lines each, each tap will feed 150' of septic line.

OK
LBF
4/1/14

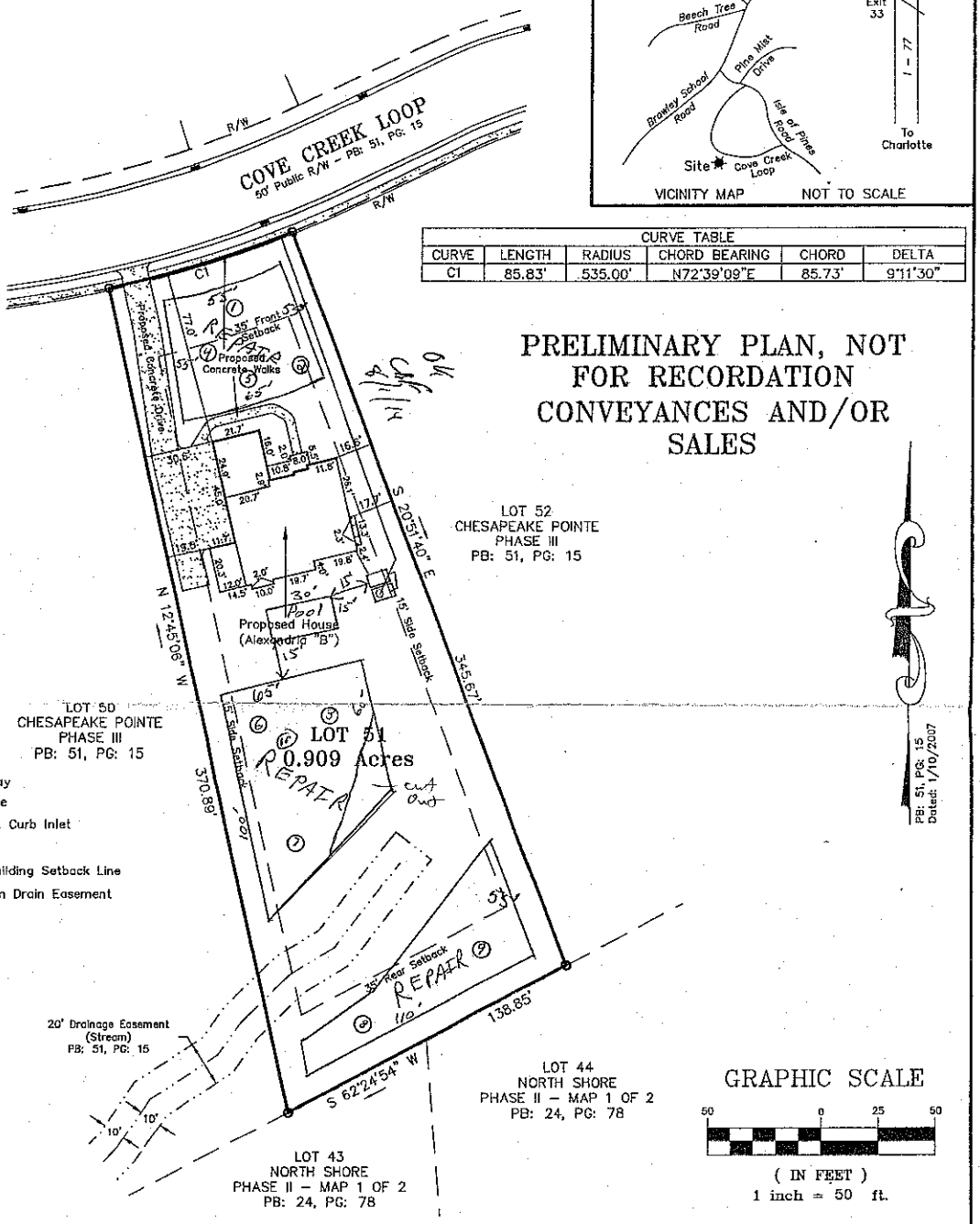
I, JIMMY N. FAIRES, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; DEED DESCRIPTION AND/OR MAP BOOK SEE, PAGE NOTE #2; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK N/A, PAGE N/A; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS ____ DAY OF _____, 2014.

PRELIMINARY

JIMMY N. FAIRES, PLS
LICENSE NUMBER: L-4311



VICINITY MAP NOT TO SCALE



CURVE TABLE					
CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD	DELTA
C1	85.83'	535.00'	N72°39'09"E	85.73'	9°11'30"

PRELIMINARY PLAN, NOT FOR RECORDATION CONVEYANCES AND/OR SALES

LEGEND

- R/W = Right-of-way
- = Not to Scale
- = Storm Drain Curb Inlet
- (T) = Total
- MBSL = Minimum Building Setback Line
- PSDE = Public Storm Drain Easement

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.

SURVEYOR NOTES

1) ALL DIMENSIONS SHOWN ARE IN US SURVEY FEET AND DECIMALS THEREOF AND ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE INDICATED. AREA BY COORDINATE METHOD.

2) THIS PLOT PLAN IS BASED ON PLAT BOOK 51 PAGE 15 AS RECORDED AT THE IREDELL COUNTY REGISTER OF DEEDS.

3) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE EXAMINATION BY AN ATTORNEY. THE PROPERTY MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHTS-OF-WAY, EASEMENTS, RESTRICTIVE COVENANTS OR CONDITIONS NOT OBSERVED OR SHOWN HEREON.

4) THIS LOT LIES WITHIN A SUBDIVISION THAT WAS PREVIOUSLY TIED TO THE NORTH CAROLINA GRID SYSTEM.

5) BASIS OF BEARINGS: PLAT BOOK 51 PAGE 15 -- DATED: JANUARY 10, 2007

6) #4 REBAR AT ALL CORNERS, UNLESS OTHERWISE NOTED. ALL CORNERS "FOUND" or "SET" ARE FLUSH WITH THE GROUND, UNLESS OTHERWISE NOTED.

7) THE LOCATION OF UTILITIES AS SHOWN HEREON, WHETHER PUBLIC OR PRIVATE, ARE BASED ON THE LOCATION OF VISIBLE ABOVE GROUND APPURTENANCES ONLY. OTHER UTILITIES WHICH WERE NOT OBSERVED AND NOT SHOWN HEREON MAY EXIST. IT IS THE OWNERS/TENANTS RESPONSIBILITY TO VERIFY THE LOCATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. GEOMATIC CONCEPTS, PLLC CANNOT ASSUME RESPONSIBILITY FOR MISIDENTIFICATION OR OMISSION OF UNDERGROUND UTILITIES.

8) THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

PLOT PLAN

LOT 51 - CHESAPEAKE POINTE
PLAT BOOK: 51, PAGE: 15

231 COVE CREEK LOOP
DAVIDSON TOWNSHIP, IREDELL COUNTY, NORTH CAROLINA

Prepared For:
PEACHTREE RESIDENTIAL, INC.
7380 McGINNIS FERRY ROAD
SUWANEE, GA 30024

GEOMATIC CONCEPTS, PLLC

NC LICENSE #: P-1031
633 MIDWAY ROAD, STATESVILLE, NC 28625-8896
PHONE: 704-361-0412 EMAIL: JIMMY.FAIRES@GEOMATICCONCEPTS.COM

Drawn By: JNF	Checked By: JNF	Scale	Project No.
Tax PIN: 4636-11-0692		1" = 50'	14022
Date: July 3, 2014			Sheet No.
File: 14022-Lot-51-Chesapeake-R4.dwg			1 of 1

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

PROPERTY ID #: 4636110692_
COUNTY: _IREDELL_

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

OWNER: _CP II LLC_ APPLICATION DATE_____
ADDRESS: _Atlanta, GA_ DATE EVALUATED: _____
PROPOSED FACILITY: 4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD 720 PROPERTY SIZE: _0.909 AC_____
LOCATION OF SITE: _Chesapeake Point Lot 51/51A_ PROPERTY RECORDED: _1/10/2007_____
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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 8%	0-9	Br SCL WSBK	FR SS SP	N/A	48"	N/A	N/A	PS 0.3
		9-48	R C SBK	FR SS SP					
2	LS 12%	0-20	Br SCL WSBK	FR SS SP	CHR 2 @ 30"	30"	N/A	N/A	PS 0.25
		20-30	RY C WSBK	FR SS SP					
3	LS 10%	0-12	Br SL WSBK	VFR SS SP	Few YB CHR 2 @21"	21"	N/A	N/A	PS 0.1 DRIP
		12-21	RY SC WSBK	FR SS SP					
4	LS 10%	0-8	Br SCL WSBK	FR SS SP	Few YB @ 38"	48"	N/A	N/A	PS 0.25
		8-48	R C SBK	FR SS SP					

Soil on CBK 8/14/14

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1800 FT2	11500 FT2
System Type(s)	25% Reduction	Drip Irrigation
Site LTAR	0.3 ICHD	0.1

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

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

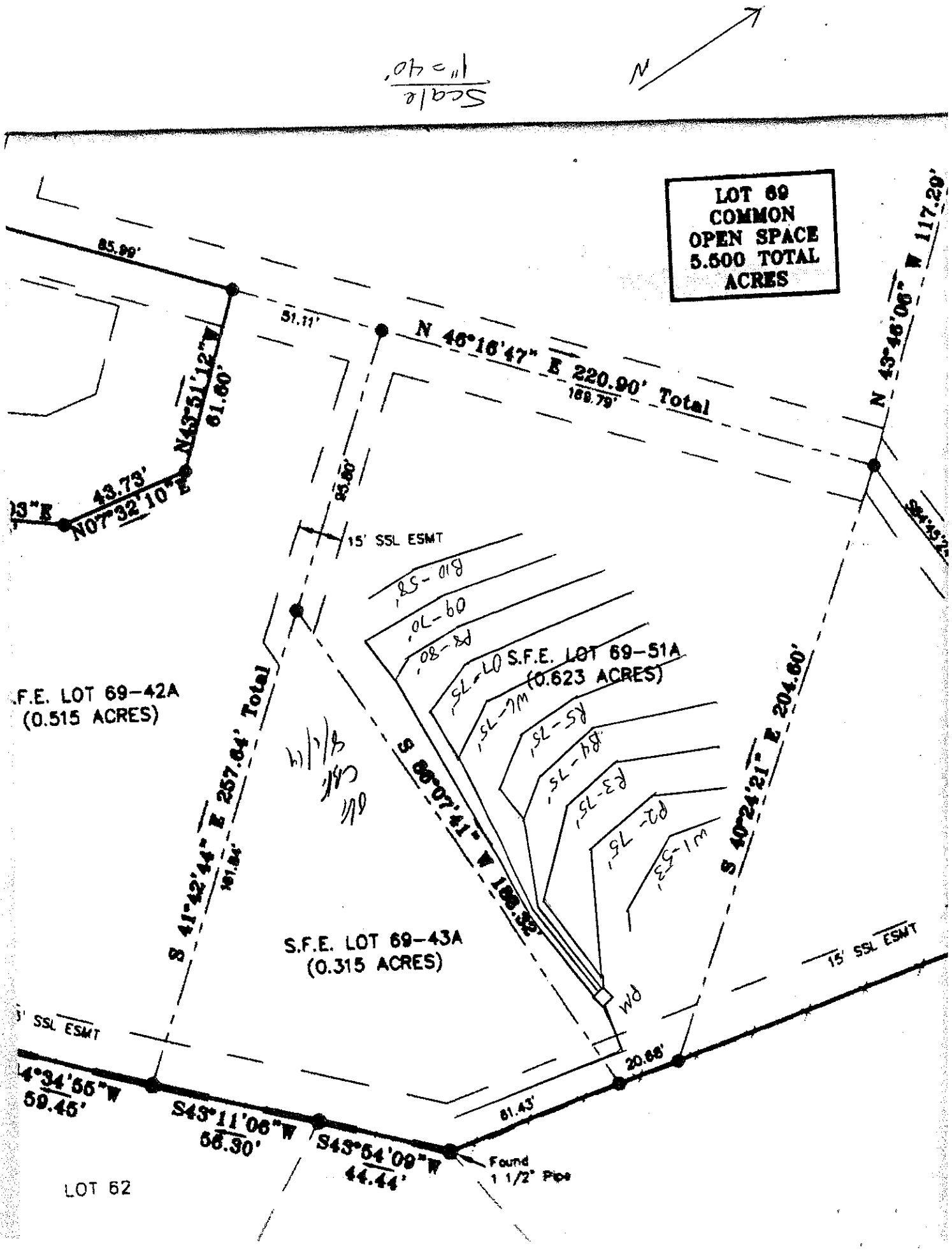
PROPERTY ID #: 4636110692
DATE OF EVALUATION:
COUNTY: IREDELL

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
5	LS 12%	0-16	Br SL WSBK	VFR SS SP	F-C YB CHR 2 @ 32"	32"	N/A	N/A	PS 0.25
		16-22	R Br SCL WSBK	FR SS SP					
		22-32	RY C ABK	FR SS SP					
6	LS 10%	0-5	Br SL WSBK	VFR SS SP	F-C YB CHR 2 @ 27"	27"	N/A	N/A	PS 0.1 DRIP
		5-10	R SCL WSBK	FR SS SP					
		10-27	YR C SBK	FR SS SP					
7	LS 10%	0-4	R SCL WSBK	FR SS SP	F-C Mn CHR 2 @ 27"	27"	N/A	N/A	PS 0.1 DRIP
		4-7	Br SL WSBK	FR SS SP					
		7-27	YBr CL/SCL WSBK	FR SS SP					
8	LS 10%	0-9	Br SL WSBK	VFR SS SP	Few YB CHR 2 @ 22"	22"	N/A	N/A	PS 0.1 DRIP
		9-12	Br SCL WSBK	FR SS SP					
		12-22	YR SC WSBK	FR SS SP					
9	LS 10%	0-13	Br SCL WSBK	FR SS SP	Few YB CHR 2 @ 18"	18"	N/A	N/A	PS 0.1 DRIP
		13-18	YR SC WSBK	FR SS SP					

OK CAK 8/1/14

COMMENTS:

(10) 8% 0-7 BSCL WSBK
7-12 RBSCL WSBK
12-30 RYC - SBK fr: SSSP 2 chroma @ 20" Drip .1


LOT 69
COMMON
OPEN SPACE
5.500 TOTAL
ACRES
N
85.99'
51.11'
N 46°16'47" E 220.90' Total
169.79'
N 43°46'06" W 117.20'
N43°51'12"W
61.60'
43.73'
N07°32'10"E
85.80'
15' SSL ESMT
S.F.E. LOT 69-42A
(0.515 ACRES)
S 41°42'44" E 257.64' Total
S.F.E. LOT 69-51A
(0.623 ACRES)
S 40°24'21" E 204.60'
S 66°07'41" W 168.32'
S.F.E. LOT 69-43A
(0.315 ACRES)
15' SSL ESMT
15' SSL ESMT
S43°34'55"W
59.45'
S43°11'06"W
56.30'
S43°54'09"W
44.44'
20.66'
81.43'
Found
1 1/2" Pipe
LOT 62