

COUNTY #

SOIL PROFILE

SOIL PROFILE

0' (179)
 Red Br
 Cl Loam

2-2.5'
 Or Brown
 Sa Cl Loam
 and Sa Loam

3.5-5.5'
 Light Br
 and Red
 Br Sa Loam
 ~5% Rock

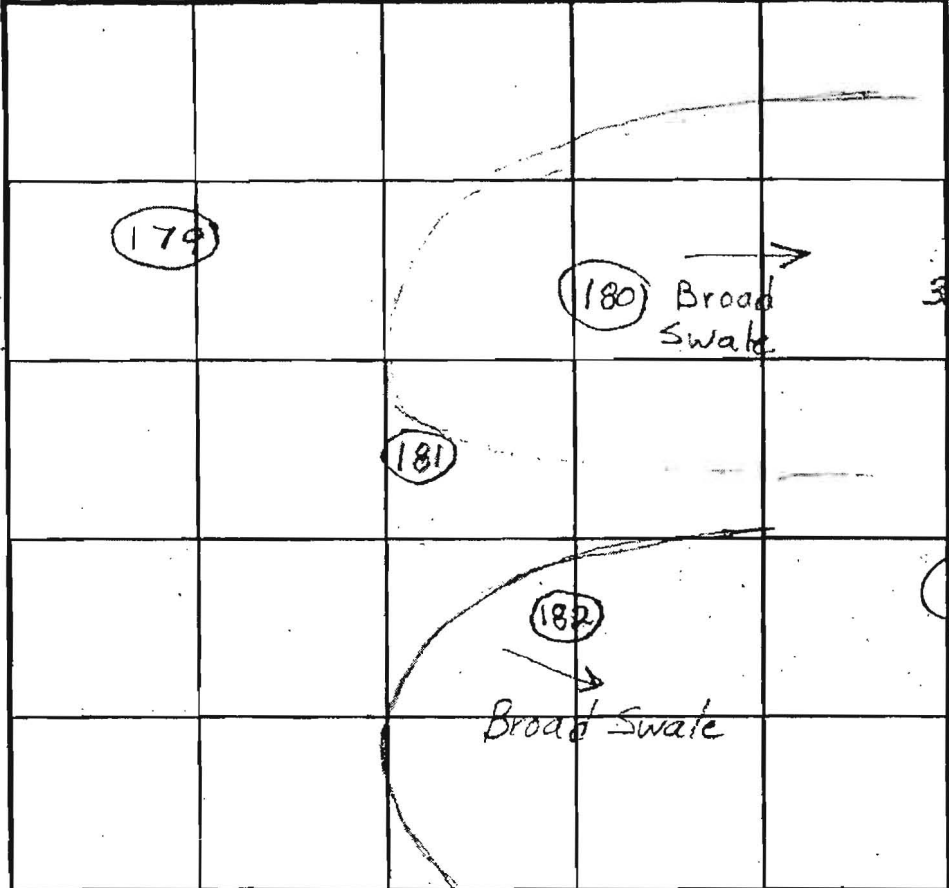
0' (180)
 Red Br
 Cl Loam

2.5'
 Red Br Sa
 Loam and
 Or Br Si
 Loam

3.5-5.5'
 Light Br
 Si Loam

7.5'
 Light Br
 Sa Loam
 10-15%
 Rock

13'
 Caving
 Water



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Ten Oaks Road

(181)
 Red Br
 Cl Loam

2.5'
 Red Br
 Sa Cl
 Loam

3-3.5'
 Light Br
 and Red
 Br Sa Loam
 ~10% Rock

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
12/11/01	179	5' / 15' V	3:26	3:27	3:27	3:29	2	OK
	181	5' / 15' V	3:34	3:34:35	3:34:35	3:35:35		OK
	Repair	5'	3:37:45	3:38:45	3:38:45	3:40:45	2	
	182	5.5' / 15' V	3:47	3:50	3:50	3:54	4	WS
	* 180	6'-6.5' / 13.5' V	3:59	4:01:15	4:01:15	4:06	~5	WS
		180 and 182 may not be usable located in swales Need to Recheck Topography in Field						

REMARKS: HOLE DUG DEEPER TO RTN

TYPE OF SOIL _____

TESTED BY: Brian Baker ALSO PRESENT: HATFIELD'S - D...

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

1 IN FT DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SO FT DEPTH _____

(182)
 Topsoil

1'
 Light
 Red Br
 Si Loam

~20% Rock

11'
 Mottling

15'

COUNTY #

SOIL PROFILE

470

Red Br Loam 3'3.5'

Red Br Si Loam and Beige Sa Loam ~15% Rock 5.5'

Very Fine Tan Sa Loam 15-25% Saprolite

Caving Water 11'

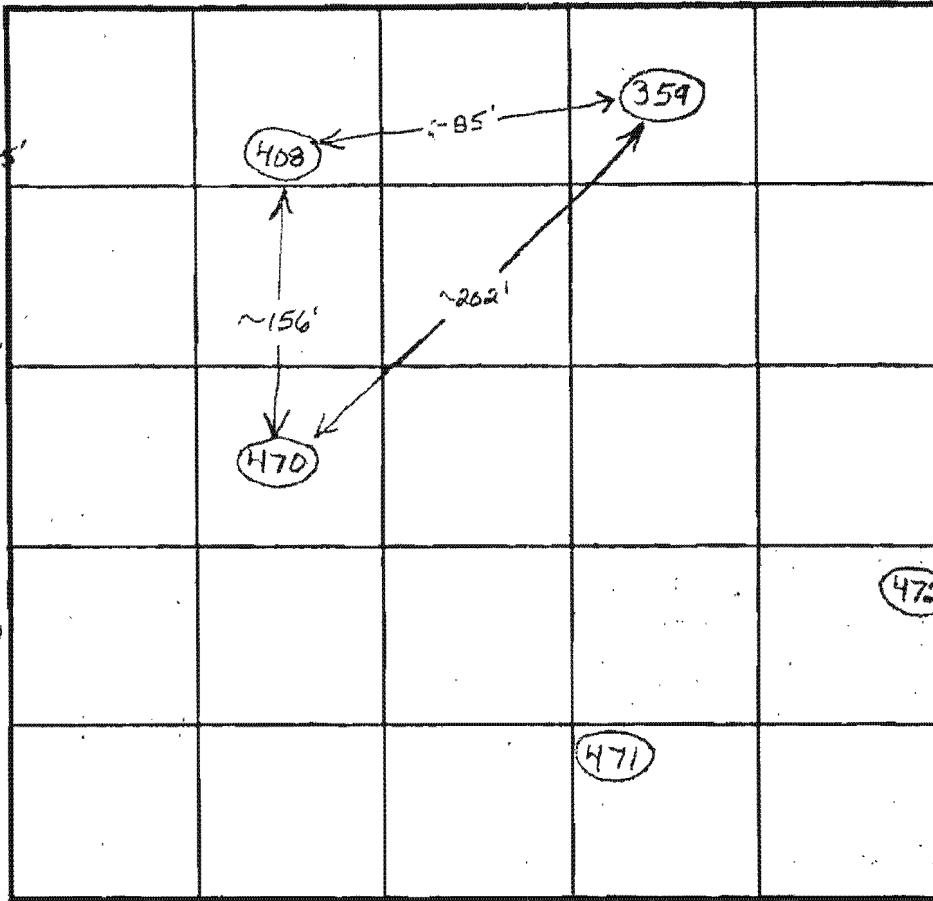
408

Dark Brown Top Soil 6"

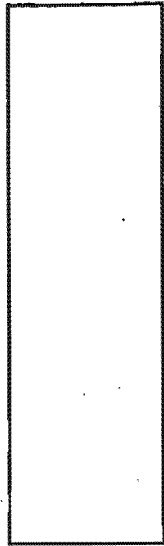
Brown Loam 1'

Light Brown Si Loam 4'

Tan Brown Loamy Silty < 5% Chert fragments 12'



SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
4/28/03	470	4' / 13V	12:57	1:03:30	1:03:30	1:18	14 1/2	O.K.
		7'	12:57	1:01:30	1:01:30	1:08:30	7	
4/29/03	408	3.0'	1:30	1:38	1:38	1:41	3min	O.K.

REMARKS _____

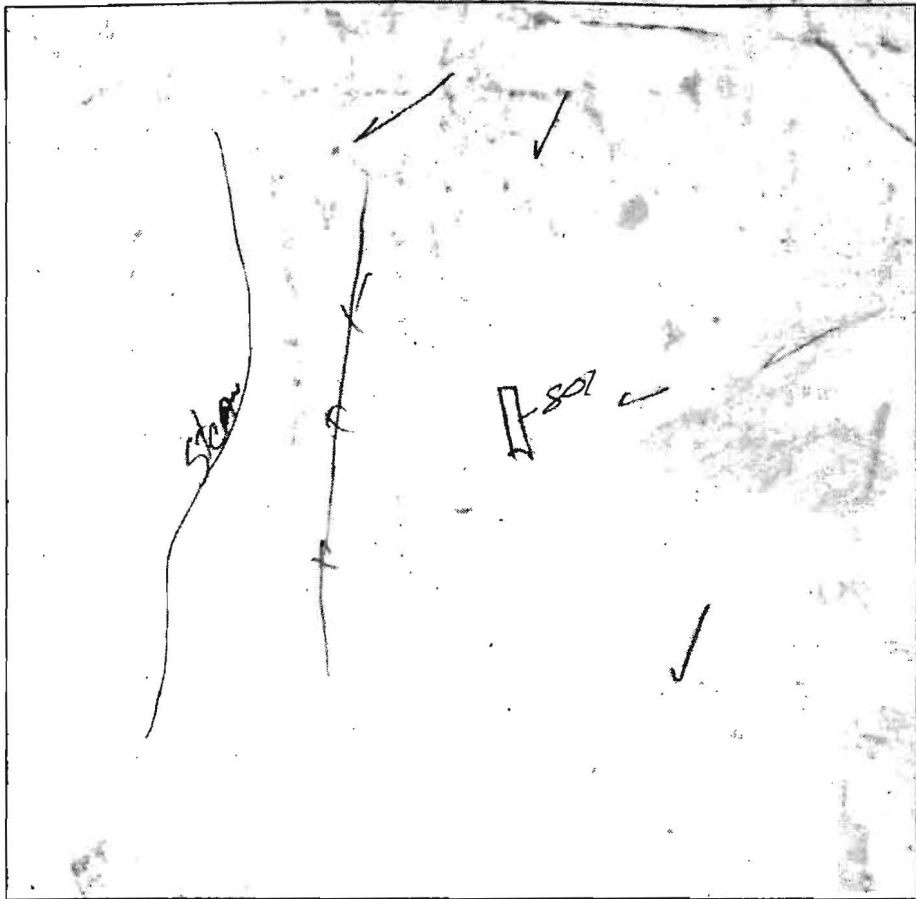
TYPE OF SOIL _____

TESTED BY F. Alfonso/B. Baker ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

AVP



801

Brwn L 1'

Red/Brwn micn Sil 3'

Yellow/Brwn Sil 4'

Brwn/Yellow micn Sil w/ fine bed water - 12 1/2'

water 11 1/2'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
8/29/08	801	4' 14 1/2	1:25	1:30	1:50	20 min	P

REMARKS hdc dug per plan

SANITARIAN KJB PI BACKHOE Donnic OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

COUNTY #

SOIL PROFILE

(534)

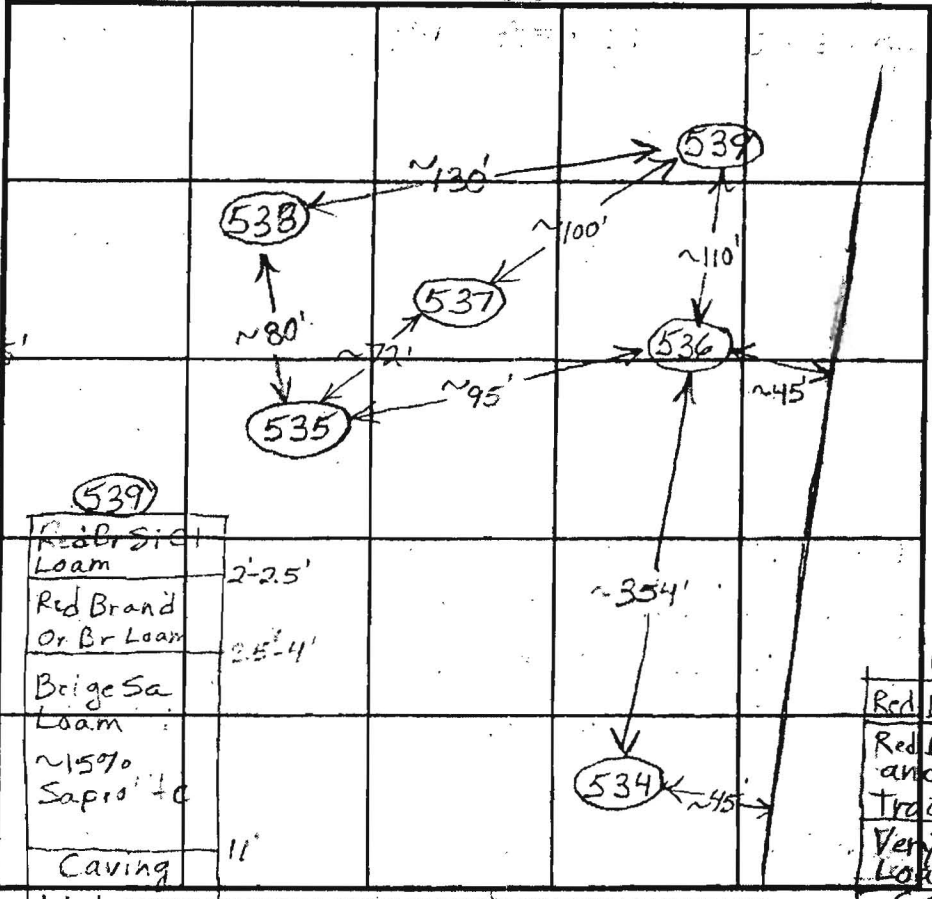
Red Br Heavy Loam 3.5'
 Red Br Si Loam and Si Cl Loam Trace Rock 6.5'
 Red Br Sa Loam ~25% Saprolite 8'
 Caving Water 10'

(536)

Red Br Heavy Loam 2'
 Red Br Si Cl 4'
 Red Br Si Cl Loam and Sa Cl Loam Trace Rock 5'
 Red Br Sa Loam ~15% Saprolite 13'
 Water

(535)

Red Br Heavy Loam 3.5'
 Red Br Si Cl Loam Trace Rock 6'
 Red Br Si Loam Trace Rock 6.5'
 Red Br Si Loam and Sa Loam Getting Soldier With Depth ~20% Saprolite 13'
 Water



SOIL PROFILE

(537)

Red Br Heavy Loam and Si Cl Loam ~10% Rock 5'
 Red Br Si Loam Trace Rock 6.5'
 Beige Sa Loam ~25% Saprolite 12'
 Caving Water 13'

(538)

Red Br Heavy Loam 4'
 Red Br Si Cl Loam and Dense Sa Loam Trace Rock 5.5'
 Very Fine Br Sa Loam, 15% Saprolite 10.5'
 Caving Water 11.5'

Water INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
1/9/04	534	5.5'/10"V	1:54	~3/4" in 20 minutes			Slow (F)	
		7.5'	1:53:30	1:56:30	1:56:30	2:00:30	4	
	536	5'/13"V	2:21:30	2:24:15	2:24:15	2:29:15	5	O.K.
		7.5'	2:22:15	2:24:15	2:24:15	2:27:15	3	
	535	6'8"/13"V	2:41	>25 minutes for 1st inch			Slow	O.K.
		7'8"	2:41:30	2:46:15	2:46:15	2:53:45	7 1/2	
	537	5.5'/13"V	3:03	3:13:30	3:13:30	3:32	18 1/2	O.K.
		7.5'	3:03:15	3:06	3:06	3:16:45	5	
	539	4.5'/12"V	3:24	3:27:15	3:27:15	3:34:15	7	O.K.
		7.5'	3:24	3:25:45	3:25:45	3:28:15	2 1/2	
	528	5'/12"V	3:50	4:00	4:00	4:19	19	
		7'4"	3:50	3:52	3:52	3:55:30	3 1/2	

REMARKS

TYPE OF SOIL

TESTED BY

B. Baker

ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

SEE SHEET 1

8,750
EhB2

Approved revised
Per-Cert plan
12-28-07

SPD NORTH

CL. STREET

MGC3

N/E
JUAN N. WARFIELD
26257500
P. 43
ZONED: RR/EC

AGRICULTURAL ZONEMENT
HO-01

MGC3

EKB2

EhB2

MGC3

EKB2

EKA

LOT 9
46,414 S.F.

LOT 10
46,129 S.F.

LOT 12
48,653 S.F.

LOT 13
48,763 S.F.

LOT 8
45,407 S.F.

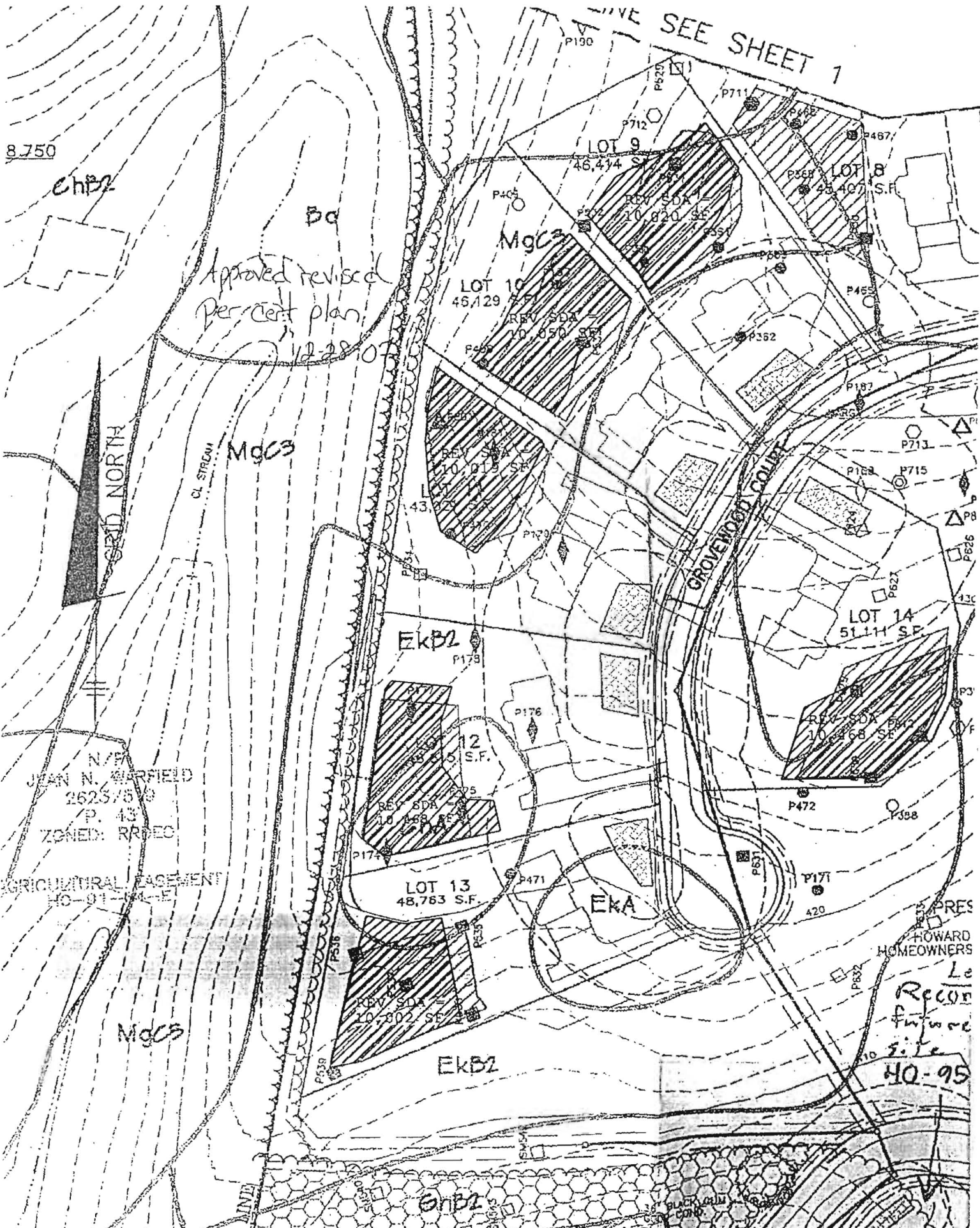
LOT 14
51,114 S.F.

GROVEDOOD COURT

SPRES
HOWARD
HOMEOWNERS

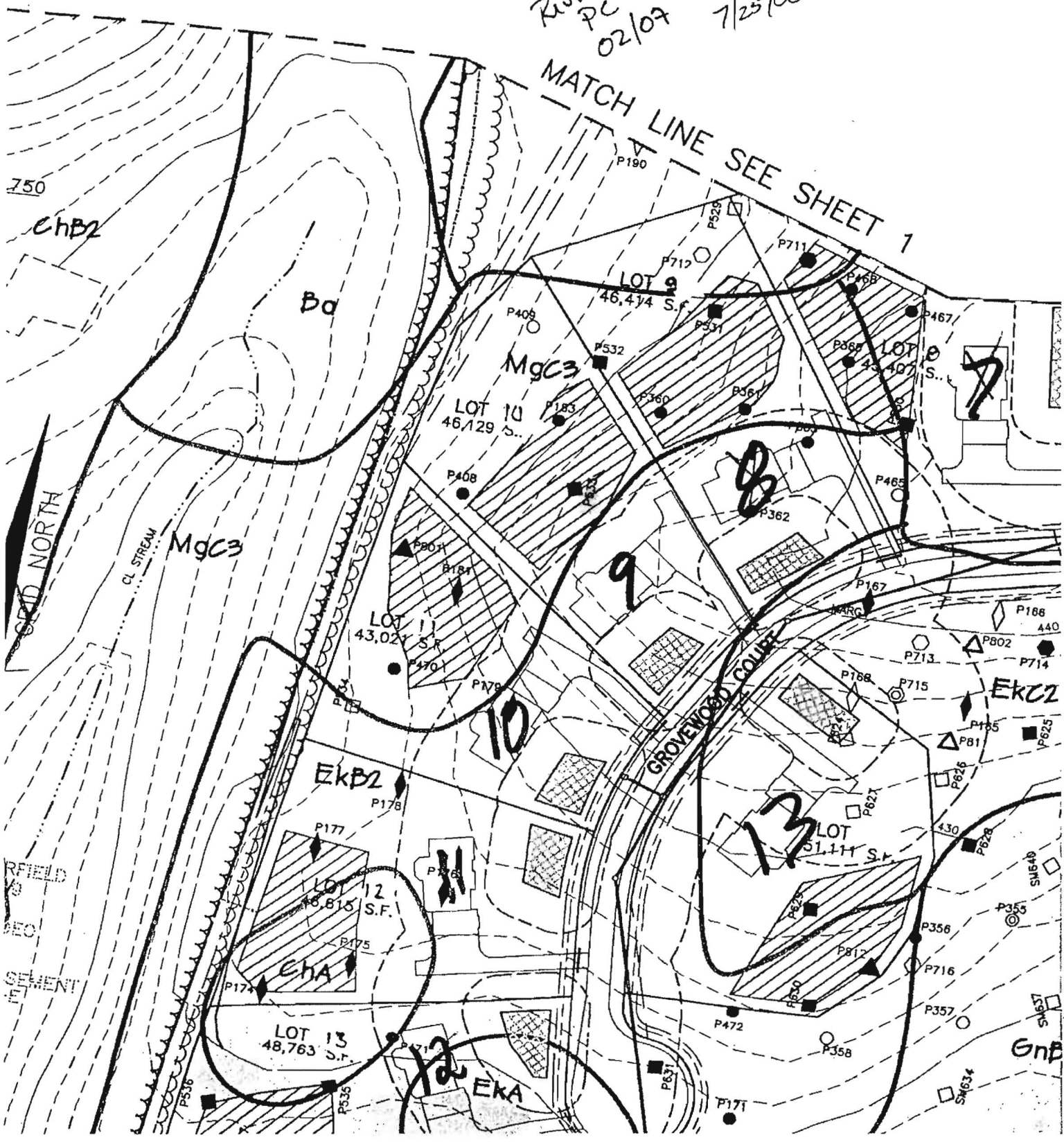
Le
Recon
future
site
HO-95

BLACK OIL
COND.



Revised
PC
02/07
Separated by PC
7/25/08

MATCH LINE SEE SHEET 1



750
ChB2

Ba

MGC3

LOT 9
46,474 S.F.

LOT 10
46,129 S.F.

LOT 8
43,407 S.F.

LOT 11
43,027 S.F.

10

9

GROVEWOOD COURT

13

LOT 12
46,815 S.F.

EkB2

EhA

LOT 13
48,763 S.F.

EKA

EkC2

GnB

FIELD
REC
CEMENT

CL. STREAM

SPD NORTH

MGC3

SMBP

SMBP

SMG34

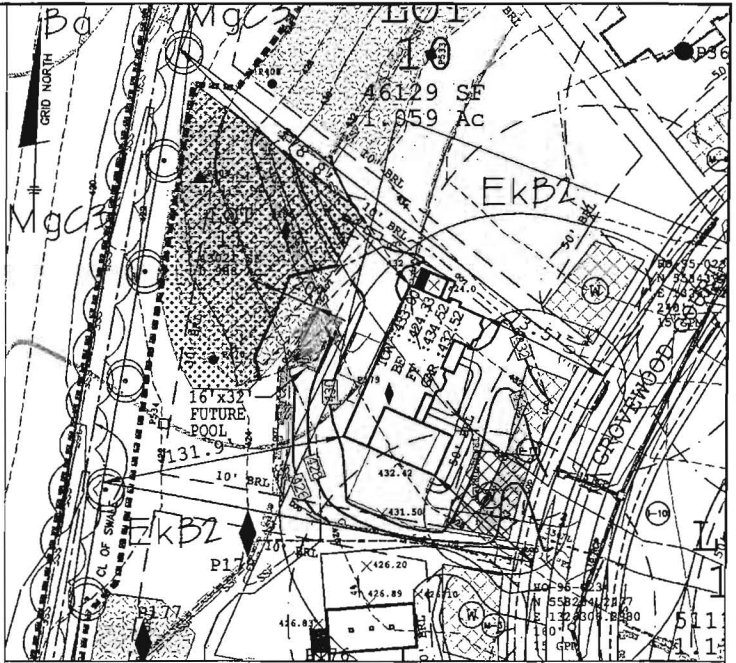
GnB

NOTES :

1. THE LOTS SHOWN HEREON COMPLIES WITH MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENTAL.
2. EXISTING WELLS ON THE SUBJECT PROPERTY AND WITHIN 100 FEET OF SUBJECT PROPERTY BOUNDARIES ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE AND BELIEF.
3. TOPOGRAPHY ON THIS PLAT IS BASED ON A FIELD SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. IN MARCH 2002.
4. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. PERCOLATION CERTIFICATION PLAN (2/08/07) IS MODIFIED AS SHOWN.
5. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL EASEMENT (S.D.E.) OF AT LEAST 10,000 S.F. AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS EASEMENT ARE RESTRICTED. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A REVISED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
6. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO REVISE THE WELL BOX EASEMENT AREA AND REVISE THE SEWAGE DISPOSAL EASEMENT (S.D.E.) IN SUPPORT OF A BUILDING PERMIT APPLICATION FOR THE CONSTRUCTION OF A FOUR-BEDROOM SINGLE FAMILY RESIDENCE. THE REVISED WELL BOX AREA SHOWN MEASURES TO BE 1,500 S.F. THE REVISED S.D.E. AREA SHOWN MEASURES TO BE 10,115 S.F.

LEGEND :

- P123 PERC PASSED - 2001
- P123 PERC PASSED - 2003
- P123 PERC PASSED - FEBRUARY 2004
- P123 PERC FAILED - FEBRUARY 2004
- P123 PERC PASSED - JUNE 2004
- P123 PERC PASSED - AUGUST 2004
- 1500 S.F. WELLED
- WELLED TO BE ABANDONED
- SOILS REVISION LINE
- EK62 SOILS TYPE
- NEW S.D.E.
- S.D.E. AREA TO BE ABANDONED



REVISED
 Date: 7/24/08
 Comments: 308-1037
 1247 Greenwood Ct

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON WORK PERFORMED IN MY PRESENCE OR BY MY DIRECTION, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Joseph A. ...
 SIGNATURE

7/17/09
 DATE



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.

Joe Stamp
 SIGNATURE

DATE

The existing well(s) shown on this plan have been field located by a Professional Land Surveyor, and is (are) accurately shown. All drilled wells and SDA's within the boundaries of this property are shown.

TAGGED WELL DATA
 TAG NUMBER: P123-001
 NORTHING: 12345678
 EASTING: 12345678

TITLE PERCOLATION CERTIFICATION PLAN REVISION AND PLOT PLAN		OWNED/BUILDER: Approved Septic System Plan Howard County Health Department Columbia, MD 21046		PROPOSED ELEVATIONS: TOP OF BENCHMARK IN AIR: 424.20 TOP OF FOUNDATION WALL: 424.00 TOP OF FIRST FLOOR: 424.00 BRIGHT OUT OF HOUSE: 424.07 BRIGHT SETS FINE: 424.00 BRIGHT OUT OF TANK: 424.07 BRIGHT SETS FINE: 424.00 BRIGHT OUT OF PLUMB: 424.00 BRIGHT SETS DISTRIBUTION BOX: 424.00 BRIGHT OUT OF DISTRIBUTION BOX: 424.00 BRIGHT SETS TRENCH: 424.00	
DATE: 6.12.2008 SCALE: 1:50		PROJECT NAME: 3 Bedroom SFD as shown R. Buck Signature		GRADE AT HOUSE ENTRY: 424.75 GRADE AT SEPTIC TANK: 424.00 GRADE AT PLUMB: 424.00 GRADE AT DISTRIBUTION BOX: 424.00 GRADE AT TRENCH: 424.00 FINISH SPECIFICATIONS: IF APPLICABLE OVER-CALL OR CALL APPROVAL OVER 11' OVERLAY	

RHINE

LANDSCAPING LLC.

February 13, 2015

Mr. Robert Bricker
Environmental Sanitarian Supervisor
Howard County Bureau of Environmental Health
8930 Stanford Boulevard
Columbia, MD 21045

RE: Revised Perc/Cert Plan
12614 Grovewood Court
Clarksville, MD 21029

Dear Mr. Bricker,

Please find the attached three (3) copies of the Revised Perc/Cert Plan for your review and approval.

As we discussed during our meeting on February 12, 2015, we made some modifications to the existing septic reserve easement to relocate approximately 413 square feet in order to allow the construction of a new swimming pool with associated retaining walls. We hope that these changes will be acceptable to you.

We appreciate your attention to this matter and look forward to your response. We are hoping to apply for the building permit as soon as possible so that construction can begin this spring. Please let me know if you have any questions or comments. I can be reached at 410-442-2445 or dan@rhinelandscaping.com.

Sincerely,



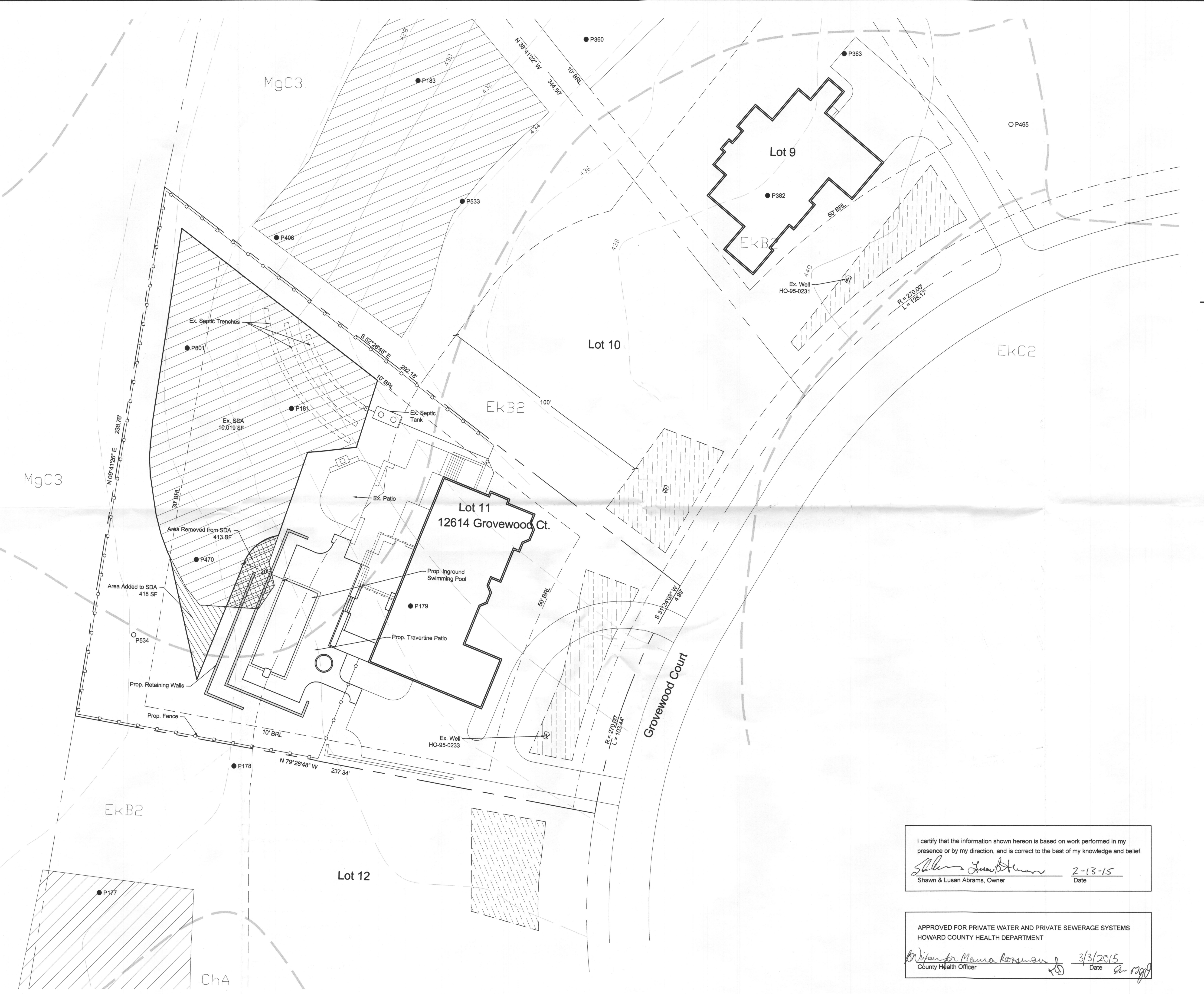
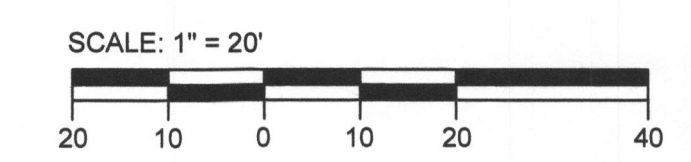
Dan Murphy
Registered Landscape Architect #3178
Rhine Landscaping, LLC



LEGEND	
	Ex. Contour (2')
	Ex. Contour (10')
	Property Line
	Setback Line
	Soils EKC2
	Existing Septic Area
	Ex. Septic Area to be Removed
	Septic Area to be Added
	P363 Perc Test Hole - Passed
	P712 Perc Test Hole - Failed

Notes

- All existing wells on the subject property and within 100 feet of the subject property boundaries are represented to the best of my knowledge and belief.
 - The existing well on the subject property (HO-95-0233) has been field located and is accurately shown.
 - Topography on this drawing is from the Revised Percolation Certification Plan (9/14/09).
 - The lot shown hereon complies with the minimum ownership width and lot area as required by the Maryland Department of Environment.
 - Any changes to a private sewage easement shall require a revised Percolation Certification Plan.
-
- This area designates a private sewage easement of at least 10,000 sq. ft. as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this easement are restricted. This easement shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage easement. Recordation of a revised sewage easement shall not be necessary.
 - The purpose for this Revised Percolation Certification Plan is to adjust the existing sewage easement to accommodate construction of an in-ground swimming pool.



I certify that the information shown hereon is based on work performed in my presence or by my direction, and is correct to the best of my knowledge and belief.

Shawn and Lusan Abrams 2-13-15
 Shawn and Lusan Abrams, Owner Date

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

Maureen Rossman 3/3/2015
 County Health Officer Date

Owner:	Shawn and Lusan Abrams 12614 Grovewood Court Clarksville, MD 21029	
Title:	Revised Percolation Certification Plan for 12614 Grovewood Court	
Subdivision:	Preserve at Clarksville Lot 11	
Drawing Prepared By:	RHINE LANDSCAPING, LLC MHC # 21778 PO Box 1556, Sparks, MD 410-442-2445 www.rhinelandscaping.com	
Tax Map:	Plot Ref:	Date:
34	19216	2/13/15
Parcel:	Election Dist.:	Sheet:
77	5th	1 of 1



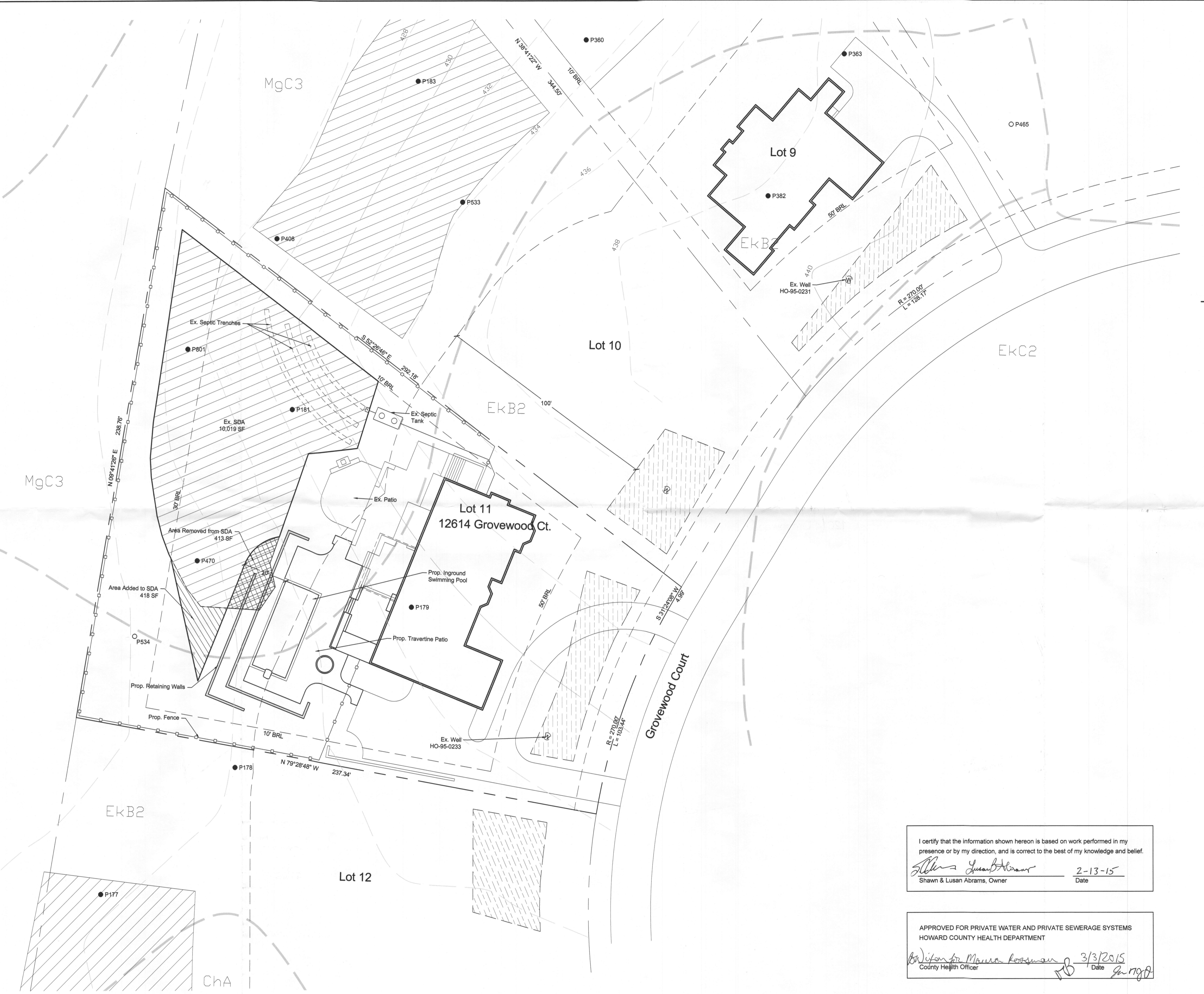
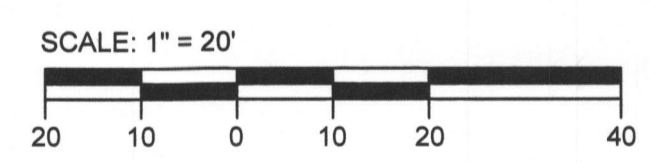
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 County Health Officer Date

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Drawing Prepared By:	RHINE LANDSCAPING, LLC MHC # 121729 PO Box 1620, Silver Spring, MD 410-442-2445 www.rhinelandscaping.com	
Tax Map:	Parcel:	Plat Ref:
34	77	19216
		Date:
		2/13/15
		Sheet:
		1 of 1