



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 530307-G

AGENCY REVIEW: _____

DATE 2/18/09

DO NOT WRITE ABOVE THIS LINE

HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH UNKNOWN PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE UNKNOWN IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) RONALD REGAN & SCOTT REGAN TRUSTEE

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS 12859 ROUTE 108 HIGHLAND MD 20777
STREET CITY/TOWN STATE ZIP

APPLICANT SAME AS OWNERS

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME REGAN PROPERTY LOT NO. 7

PROPERTY ADDRESS POINT RIDGE DRIVE
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 24 PARCEL(S) 200 PROPOSED LOT SIZE 1 AC.

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. [Signature]
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P _____

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

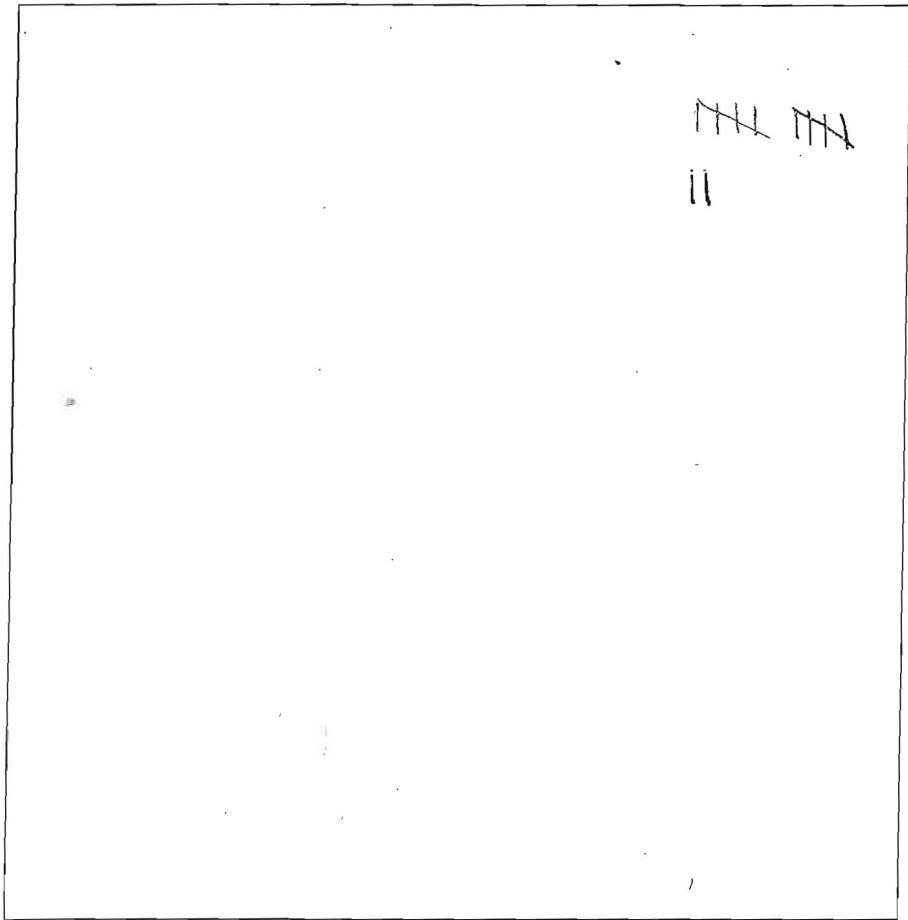
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

A/P

44
 1' brn l / f s b k
 3.5' brn s e l / l m s b k
 6' brn s e l
 6' brn f s l / micaceous / saprolite
 ↓
 12' brn v f s l

34
 6" brn l
 3' brn s e l / 2 m s b k
 3' brn s e l
 ↓
 7' yellowish / brn f s l / micaceous / saprolite
 ↓
 12'

29
 1' brn l / f s b k
 5' brn s e l / l c s b k
 brn ch s e l / quartz / channers
 ↓
 7' large rx in / sidewalk on / brn / vch s e l / 10% boulders
 5' HB



31
 brn l / f s b k / l m s b k
 3.5' brn s e l / l c s b k
 brn s e l / micaceous / saprolite
 ↓
 2.9' brn v f s l / 20% channers
 ↓
 12'

19
 8" brn l / f s b k
 4' red brn / ch s e l / l m s b k
 ch brn s e l
 few boulders / brn f s l / ch 15% / flaggy boulders
 12'

brn l / 6"
 red brn / s e l / l m s b k / 4.5'
 red brn / s e l / saprolite / 7'
 red brn / f s l / micaceous / saprolite

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6-10-09	44	4.9' / 12'	10:24	10:25	10:27	2	P
	34	5.5' / 12'	10:42	10:45	10:50	5	P
	29	10.5	visual				F
	31	5.5' / 12'	11:04	11:05	11:07	2	P
	19	5.5' / 12'	11:52	11:53	11:56	3	P
	61A	4.8' / 13'	1:42	1:43	1:45	2	P

REMARKS _____
 SANITARIAN HS/BB/DR BACKHOE Anderson OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Regan Property

(43)

A/P

(41)

0.5' dk brn gr sl

3' brn gr sl heavy
micaceous

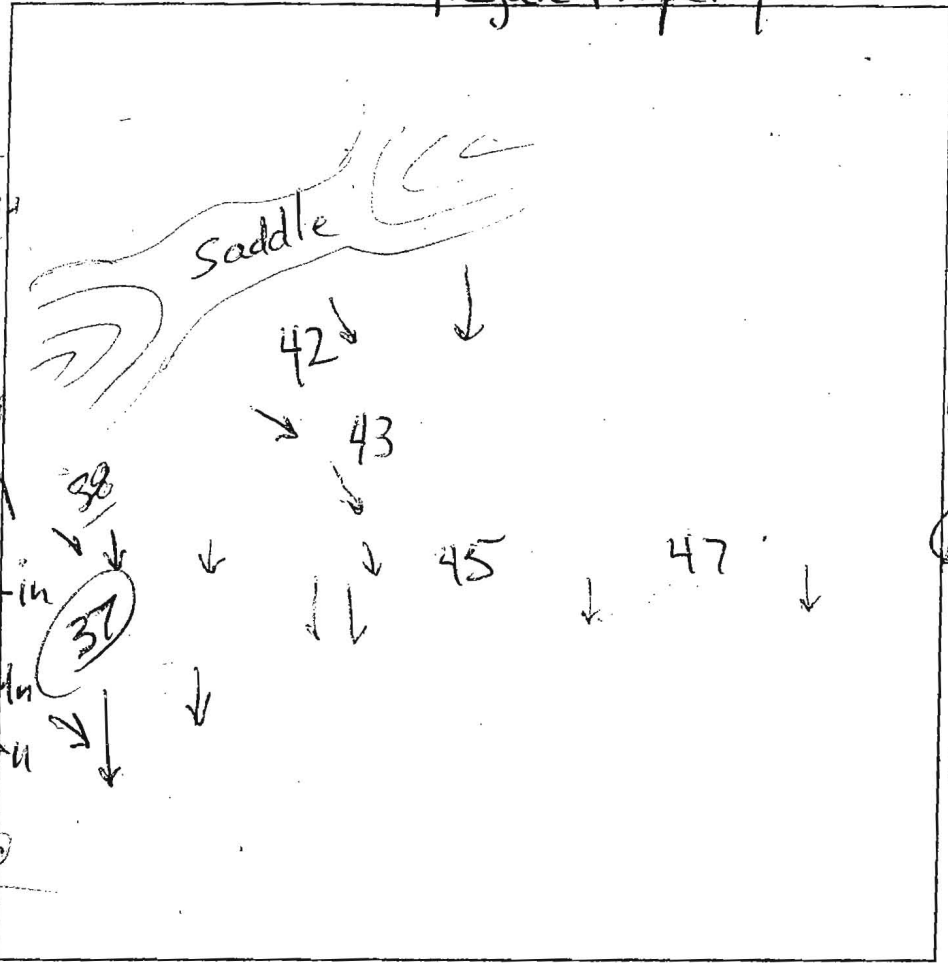
1.5' brn scl
common mica

6' variegated
pale yellow
brn & charcoal
sl

11.5' pale brn
w/ mtd red
& common fine Mn
mass

13.0' white, dk brn
& black
mica ceous
saturated

14'



0.3' brn loam
com. mica

1.5' brn scl

3' yel-red sl
micaceous
heavy dense

4' dense
dk brn sl
micaceous

10.5' yel & brn
sl micaceous

12' dk brn w/
pale yellow, white
& mtd red & com. Mn
very moist
water weeping at
face

(45)

0.4' dk brn gr sl

3' brn gr sl heavy

1.5' brn scl
com. mica

5.5' brn gr sl

3' yellow, dk brn
and charcoal
sl, micaceous

1' pale brn
w/ mtd yel-red
& com. fine Mn

1' white, dk, brn
& black sl

1.5' cave in
water seeps

4' micaceous
saturated

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5/18/09	47	7.5' / 11.5'	0	4.5	11.5	7	P
5/18/09	45	6.2' / 10.5'	0	6.5	19	12.5	P
5/18/09	43	6.5' / 10.5'	15	18	23	5	P
5/18/09	37	5.5' / 12'	0	1.5	4	2.5	P

(37)

0.8' brn loam
common mica

2' yel-red sl
heavy

2' pale-yel
& grey sl

3.5' to dark brn
sl
strong brn
w/ blk striations
st
brn, white
& pale yel
sl micaceous

REMARKS _____

SANITARIAN: RB BACKHOE: Bruce OTHERS: _____

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SAW _____

AVP

41

brn l .5'
brn scl 1.5'
brn scl
Hsbk 2.5'
flaggy
boulders
@ ~2.5-3'
fsl &
uphill side
50% rx
v fsl
~65% rx

39

brn l sbk 1'
red brn
scl 3.5'
2msbk
whitish
brn fsl
& brn
scl
saprolite
few mica 7'
yellow brn / white
fsl saprolite
(decomposing
quartz?) many
mica
10% boulders
w/ thin
coatings
@ 13'

36

brn l sbk
brn scl
2msbk 4'
brn fsl
few mica
rx pocket @ 5.5'
6'
15% blacky
channers
yellow brn
fsl
& few flaggy
quartz boulders

54

1'
brn l
sbk
3.5'
brn scl
lmsbk
10% channers
6.5'
yellow brn
fsl sbk scl
few mica
5-9'
multi color
micaceous
fsl
13'
moist
dense
massive scl
very moist H2O

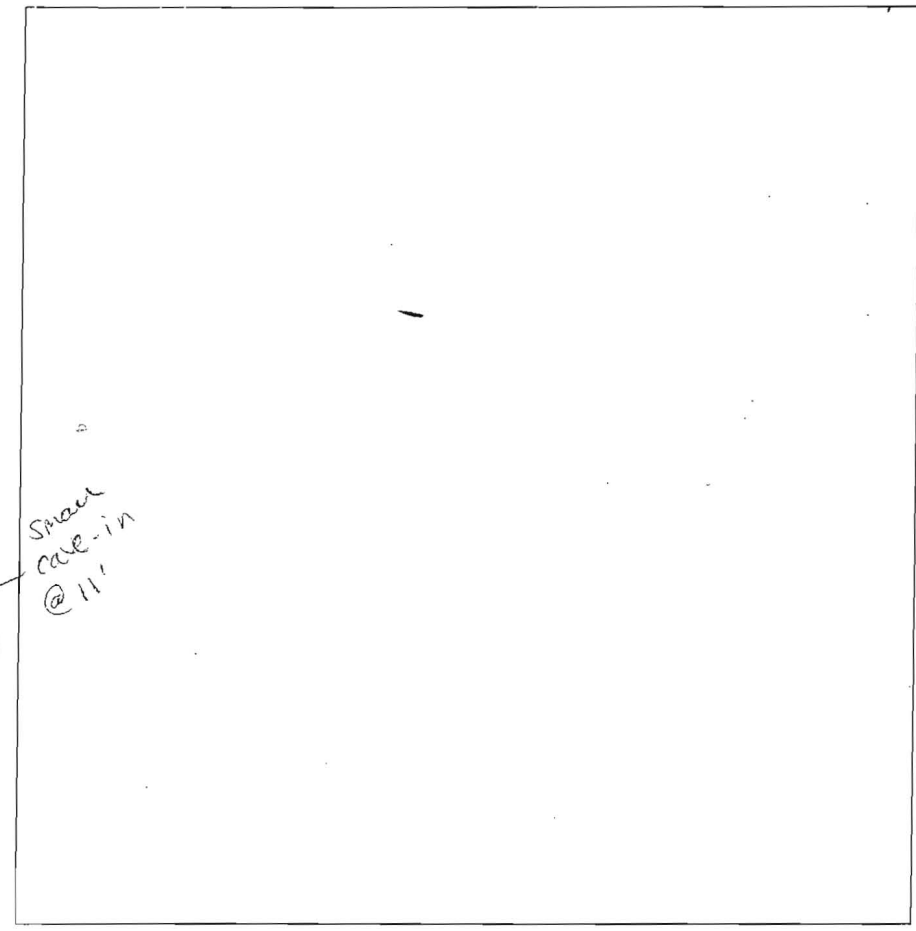
show
calc-in
@ 11'

56

1'
brn l lmsbk
1.5'
red brn
fsl
~~chsl~~
15% quartz
boulders
5'
micaceous
brn fsl
35%
channers
(quartz)
↓
quartz
increasing
massive
boulders @
bottom
13'
v fsl ~10'

42

5'
brn l
red
brn scl
Hsbk
few mica
4'
yellow /
red
brn scl
many mica
quartz
channers
30%
whitish brn
fsl micaceous
saprolite



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	PIF/H
5-18-09	54	5' / 13'	10:20	too slow		-reshel f-	
	56	6' / 12'	10:43	10:40	10:51	5	P
	54	6.5' / 13'	10:40	10:50	10:59	9	P
	42	7' / 13'	11:12	11:16	11:21	5	P
	41	11.5'	visual				F
	39	5' 10" / 13'	11:41	11:42	11:44	2	P
	36	6' / 12'	12:01	12:07	12:11	4	P

REMARKS _____
 SANITARIAN HS / BB / RB BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Regamp-69

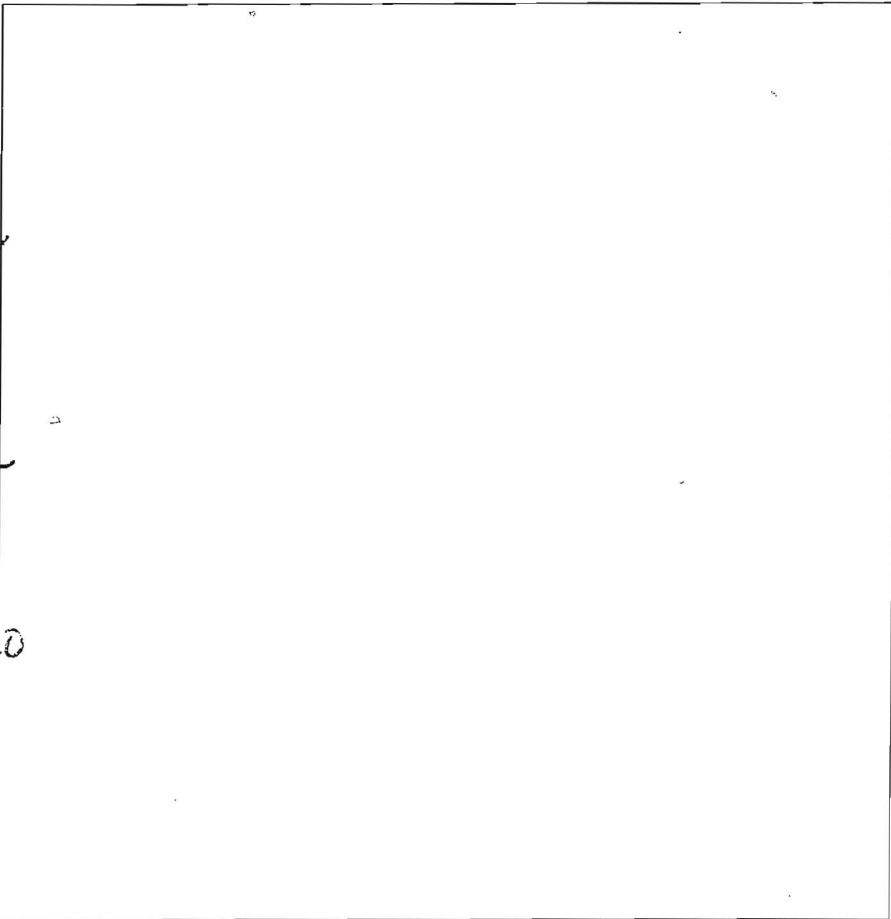
AP

P-55
 SBK Gray 0.5
 Red Brown
 Sh
 Small Boulders 5 1/2
 Rock Sm Boulders Pocket
 Sh Red Brn
 much
 Hand scraping in
 Red Brn
 SL (WET)
 much
 14' No.0

P-61
 SBK Gray 0.5
 SCL
 Rd Brn
 ↓
 5

SL
 Rd Brn
 ↓
 granular
 50%
 Rock Refusal
 19'

P-40
 SBK Gray 1.8
 Brn. Gray
 much Muc
 FSL
 ↓
 Large Boulders 7'
 FSL
 Rd Brn
 Gry
 ↓
 14'



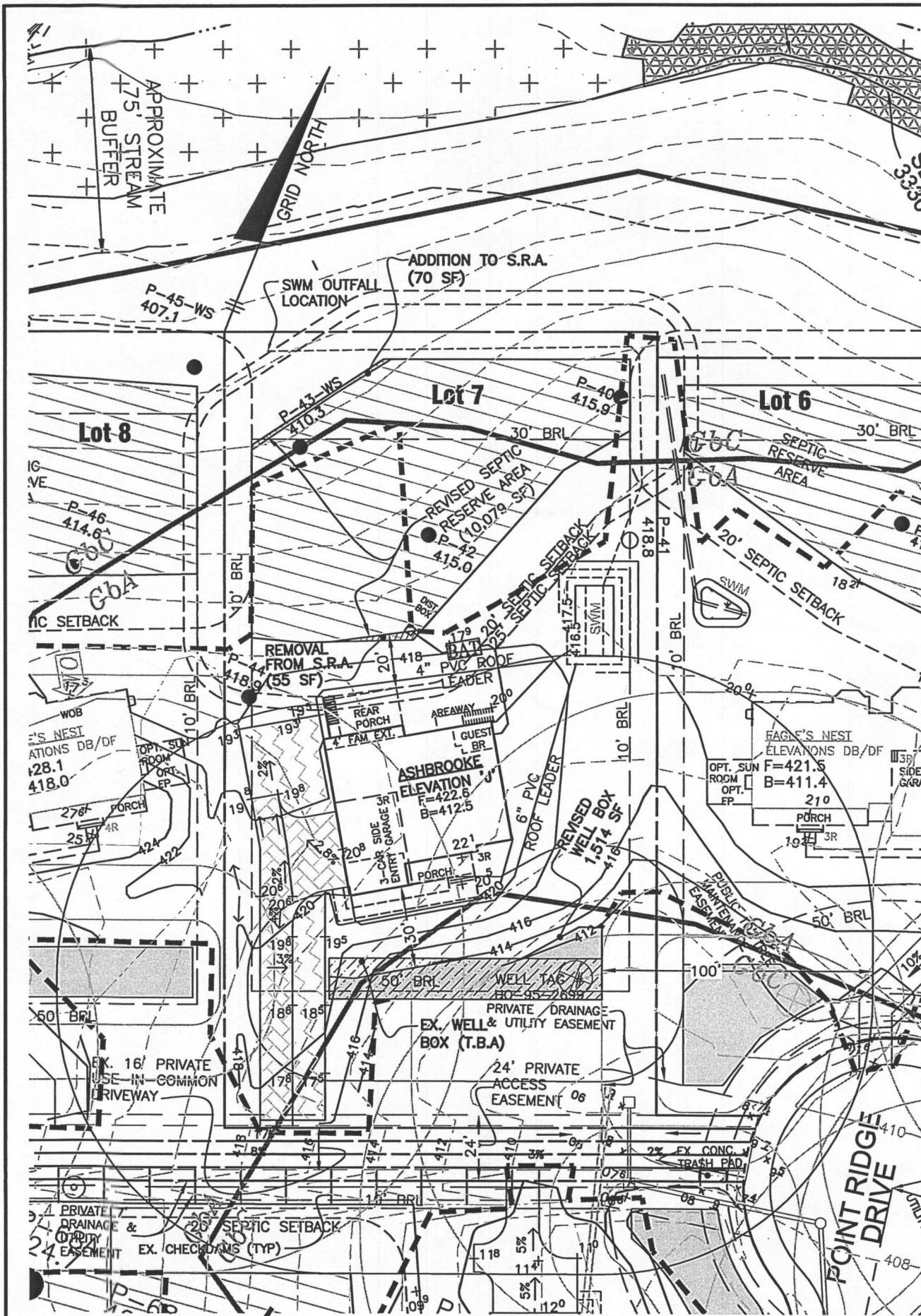
SBK med
~~0.5~~ -0.5
 SCL Rd Brn 2
 traces of Rck
 Pocket of
 Rcks - 7 1/2
 ↑
 Sh
 ↓
 Small Rck 1.3

P-17
 SBK Gry -0.5
 SCL Rd Brn -2
 Sh Rd Brn
 more than
 50% Rck 7 1/2
 Rock
 Large Boulders
 Refusal
 @
 8' - 7.9
 ↓
 8'

P-26
 SBK 2m
 Gry Brn -1'
 Brn Sh
 Shist -3'
 ↓
 Large Boulders 6'
 Pocket
 Brn, Gry
 SL
 ↓
 100%
 Large Boulders
 -14

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
5-18	P55	5.5 / 14	10:27	10:47	10:50		P
5-18	P61	4.5 / 14	Visual	1.5 sand	1.5 sand	3.7	P
5-18	P40	6.5 / 14	11:35	11:37	11:40	3m	P
5-18	P26	6.5 / 14	12:35	12:37	12:44	5m	P
5-18	P-17	7.5	Refusal	@	7.9		F
5-18	P69	6' / 13.5	2:49	2:51	2:55	4m	P
5-18	P-16						

REMARKS _____
 SANITARIAN _____ BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



PLAN VIEW
1" = 50'

PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR REGAN PROPERTY, PLAT Nos. 23063-23074. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER A GRADING PLAN AND MODIFIED FOR THIS SPECIFIC HOUSE.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY BENCHMARK ENGINEERING, INC., ON OR ABOUT JANUARY, 2012.
4. THE EXISTING WELLS SHOWN ON THIS PLAN, HO-95-2699, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND ACCURATELY SHOWN.
5. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
6. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
7. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED TO BE PROVIDED BY MICRO-BIORETENTION FACILITY (MDE M-6).
8. NO DRIVEWAY CULVERT IS REQUIRED FOR THIS LOT
9. MICRO-BIORETENTION FACILITIES SHOULD HAVE EITHER 4" OR 6" ROOF LEADERS DEPENDING ON THE SIZE OF THE ROOFTOP AREA.
10. THE PURPOSE OF THIS PERCOLATION CERTIFICATION PLAN IS TO REVISE THE SEPTIC RESERVE AREA AND THE WELL BOX ON LOT 7.

LEGEND

- EXISTING CONTOURS
- EXISTING TREELINE
- EXISTING STREAM
- EXISTING STREAM BUFFER
- PROPOSED STRUCTURE
- SOIL DELINEATION
- SOILS DELINEATION
- EXISTING WELL
- EXISTING SEPTIC RESERVE AREA
- REVISED SEPTIC RESERVE AREA (TO BE ADDED)
- EXISTING SEPTIC RESERVE AREA (TO BE ABANDONED)
- EXISTING WELL BOX
- REVISED WELL BOX
- PASSED PERCOLATION TEST
- FAILED PERCOLATION TEST

SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
GbB	B	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES
GbC	B	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES

FROM NRCS WEB SOIL SURVEY 2.0, PAGE 16, CLARKSVILLE NW

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.

John M. Carney 7/26/16
 PLAN PREPARER JOHN M. CARNEY
 FOR BENCHMARK ENGINEERING, INC.

APPROVED:
 APPROVED FOR PRIVATE WATER SYSTEM AND PRIVATE SEPTIC SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

Maureen Rossman 8/17/16
 COUNTY HEALTH OFFICER DATE

BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
 8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 ▲ FAX: 410-465-6644
 BEI@BEI-CIVILENGINEERING.COM

OWNER/BUILDER: MB HIGHLAND RESERVE, LLC 1686 EAST GUDE DRIVE ROCKVILLE, MD 20850 301-762-9511	PROJECT: REGAN PROPERTY LOT 7
LOCATION: 12345 POINT RIDGE DRIVE HIGHLAND, MD 20777 TAX MAP No. 34 - BLOCK No. 24 - PARCEL No. 200 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	TITLE: REVISED PERCOLATION CERTIFICATION PLAN LOTS 7
HOUSE TYPE: ASHBROOKE-ELEVATION 'J'	DATE: JULY, 2016
DESIGN: JMC	DRAFT: JMC/NAF
SCALE: 1" = 50'	PROJECT NO. 2171
	DRAWING 1 OF 1