



HOWARD COUNTY HEALTH DEPARTMENT

58076

DATE 4/14/16

A5

Received From

PHONE #

301 490-4289

For

☐ CASH

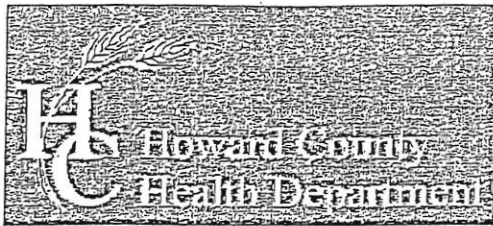
☒ CHECK

NO.

\$

Received By

Dollars



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Dr. Maura J. Rossman, M.D., Health Officer

INFORMATION FORM – SEPTIC SYSTEM REPAIR/UPGRADE

Reason for Request:

- ☒ Failing System
- ☐ System relocation for proposed addition
- ☐ System upgrade for proposed addition
- ☐ Inadequate treatment zone
- ☐ Collapsed septic tank
- ☐ Collapsed drywell

Has the septic tank been pumped within the last month?

- ☐ Yes Date pumped: _____
- ☒ No

Was a visual inspection of the septic tank and/or drain fields conducted?

- ☒ Yes Explain observations: 3-20-15
- ☐ No

Was a visual inspection of the sewage line conducted?

- ☒ Yes
 - Blockage leading to the tank
 - ☐ Yes. Explain: _____
 - ☒ No Trencher Full
 - Blockage leading to the field
 - ☐ Yes. Explain: _____
 - ☒ No Trencher Full
- ☐ No

Existing system design

- ☐ Drywell
- ☐ Trench
- ☐ Mound
- ☐ Unknown
- ☐ Other: _____

Is discharge surfacing on the ground?

- ☒ Yes
- ☐ No

Additional Comments: _____

*For REPAIRS, are the owners proposing, or do they plan to add in the future, any additions or modifications to the property, i.e. pools, living space additions, garages, etc? This information must be disclosed at the time of this application. The Health Department will not be able to accommodate requests in the field for property modifications unrelated to the repair request. Such requests may require an additional fee, testing, and submittal of a Percolation Certification Plan, if the property does not meet current Code and Regulation.

Septic Contractor: Hatchell Equipment Contractor's Phone: 410-984-0047
Contractor's Address: 70 Box 544 Annapolis Junction MD

Property Address: 12470 Petrillo Dr County file: _____
Subdivision: _____ Lot: _____ Year Built: _____
Owner's Name: Charles Mess Owner's Phone: 740-338-0498

Name of previous owners: _____ Existing bedrooms: 4
Proposed bedrooms: 4

Has this request been previously discussed with a Sanitarian? (Name): NA
Public Sewer available/nearby: NA

*A Sanitarian will be in contact within three business days, depending upon the urgency of the situation, to coordinate the scheduling/review of the repair or upgrade.

Prior to scheduling inspections, scaled plans should be submitted to clarify the nature of the addition.

Print out a copy of Real Property Data via Dept. of Taxation website _____ Indexed file found _____

If public sewer may be nearby, verify whether sewer is technically "available" through the Bureau of Engineering.

If sewer is available and the property is within the Metropolitan District, connection to sewer is required. If the owner believes reason for exemption exists, the owner should justify the request in writing.

If soil/site conditions are limited and sewer and/or Metro District status is not conducive to connection, the Sanitarian may recommend pursuit of Emergency Sewer Extension or Emergency Metro District Inclusion. The Owner should contact the Bureau of Utilities for details.

No permit is to be issued nor inspection to be scheduled without prior fee collection at the office unless an emergency situation exists. The contractor is to notify office of the emergency situation as soon as possible.

12470 Petrillo Drive – site layout for Repair. Soils GbB 80% of property. Lower area GnB near stream. (Not to Scale)



FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
11/1/16	Meeting w/ Mr. Mess @ HD. Discussed nature of current situation w/ Mr. Mess. He had alot of questions relating to his current system, and proposed design. I explained to him that the current 1st bed design will not work and that he would need to hire a private designer get involved @ this point. I gave him list of several recommended designers. more to follow <u>permed</u>
2/16/17	Onsite for initial evaluation w/ Steve K. and Adam Browning. Several Angus sites along in lower area near woods line. owner arrived onsite explained to us. 6 bedrooms existing. Whole-house softener

Wolf, Kevin

From: TWA220@aol.com
Sent: Tuesday, December 13, 2016 11:51 AM
To: Wolf, Kevin
Cc: steven.krieg@maryland.gov
Subject: Re: Tom Ashton 12470 Perillo Drive HIGHLAND

Mr. Mess has been poisoned by Hatfields who apparently knows more than we ever will, dig a deep pit, fill it with gravel (walk away) for another 10 years life. If a conventional system is sited, don't you still have to have a per rate?

Initially the site was characterized as being a good drip dispersal candidate. At this point I, we do not what the solutions maybe. I offered drip as a way to minimize clearing and protect the integrity of the site.

Below is my response to his canceling my evaluation.

At this point if he calls for the feasibility study I will concentrate on the evaluation and based on conditions offer probable solutions, likely without recommendations.

If he contacts me I will certainly try to inform him that, when applied, designed, and installed correctly the system is essentially a permanent system.

Thanks for the heads up.

Tom

"Thank you for getting back to me. I certainly understand.

The woods may have some potential for systems that are more "conventional" in design such as shallow trenches, or above ground systems such as a "at-grade", or elevated sandmound. I suspect the site suitability would still be outside of the regulation and the system would still be considered "innovative". All these options would require "Low Pressure Distribution", that is a pump system with a site specific engineered design distribution system of small diameter PVC pipe to distribute the effluent throughout the entire absorption area at each dose.

For installation, the woods these systems would require careful clearing for installation.

I did note what appeared to be an old pit in the woods, perhaps the County file has a description. Might be the original subdivision file.

At this point all I can suggest is to ask the county to reevaluate the area with a hand auger. If pits are required, it is necessary that it be only a couple, and on the edge of the area. Extensive evaluation as is evident in the upper open area could render the area problematic, unsuitable for an innovative proposal if conditions are marginal.

Despite what contractors and plumbers may advise you, based on the soil conditions I observed, and B Bakers soil descriptions / perc test results, I suspect "going deeper" to a conventional trench is not feasible.

If you need anything let me know.

Enjoy the Holiday.

Tom Ashton"

Hi Tom,

My initial enthusiasm for your proposal has cooled a bit based on my readings of the info you sent me. I would be extremely concerned about all of the "parts" of the drip dispersal system failing in one way or another. In my experience, all mechanical devices fail, and I always prefer simpler over complex. This system seems complex with many potential areas of breaking down. I need to think further about what I want to do. I may not have much other choices, but I am not ready to have you start working on this at this time. Sorry.

Charlie Mess

In a message dated 12/13/2016 11:23:02 A.M. Eastern Standard Time, KWolf@howardcountymd.gov writes:

Just spoke with Mr. Mess. I hopefully gave him the information he was looking for. I pressed the issue of ram-rodging a conventional design in vs. a true innovative. Details of drip dispersal was discussed but I think he is really concerned with longevity and maintenance. Maybe Tom you can hammer this in with him on the sales approach. I don't know why but he thinks drip systems do not last are breaking down and failing.

Kevin

From: TWA220@aol.com [mailto:TWA220@aol.com]
Sent: Monday, December 05, 2016 4:57 PM
To: Wolf, Kevin
Cc: steven.krieg@maryland.gov
Subject: Re: Tom Ashton 12470 Perillo Drive HIGHLAND

Just talked with Mr. Mess, confused over the process, my proposal, what is a drip system etc.

The soils could be deep, however I suspect the permeability will be minimal with depth in the weathered rock based on observed density / tightness and Brian's deep percs. If we looked at shallow trenches I would propose LPD at max 18-20" conditions permitting. Problematic to me regarding clearing. I suggested the drip system to maximize coverage, shallow up the point of application, and preserve the big trees, vegetation, and the natural system overall.

I don't think we have 100' of contour for a conventional mound or at grade.

Could maybe do a drip micro-mound, likely stack two, but we are looking at clearing again.

I said I'd get him some information on drip. He will likely call Kevin.

At this point I am looking at being onsite on FRI the 16th.

Tom

In a message dated 12/1/2016 10:33:18 A.M. Eastern Standard Time, KWolf@howardcountymd.gov writes:

Thanks Tom.

We'll wait to see what the owner says. I am probable that he will call me to discuss.

As far as Grooms Lane goes, working with those slopes and boulders, I figured it would be a very tough site for anything. Not to mention, the existing well was found inside the house which limits the entire site down to nearly nothing. A repl well would be hard to do. They are backed up into a real "*groom-y*" spot!

Kevin

From: TWA220@aol.com [<mailto:TWA220@aol.com>]
Sent: Thursday, December 01, 2016 9:38 AM
To: Wolf, Kevin
Cc: steven.krieg@maryland.gov
Subject: Re: Tom Ashton 12470 Perillo Drive HIGHLAND

Kevin,

Stopped by yesterday. Bored a hole in the open where the pits were. Somewhat restrictive, clayey, compacted likely during road and site development. The deeper weathered rock was denser with depth. I maybe able to get some sort of design rate shallow, for a shallow trench LPD, however I estimate permeability well over 90 mpi.

I then went down into the woods next to house and advanced a couple of borings. A loose in place natural soil profile. Quartz floaters a problem. I estimate 12 - 18" was removed from the surface in the

open area above based on what I saw in the woods. The weathered rock was also denser with depth, though appeared not so much so as upslope. The upper 24" or so was very suitable. No seasonal watertable, even in the denser areas, parent material has strong brown clay films / skins. The landscape is a consistent divergent hill.

Best option I see at this point would be a drip dispersal system installed at 8 - 10" or so in the woods. There appears to be plenty of area to allow for working around the trees. Brush, small trees would need to be removed, however overall clearing would be minimal and the area would be for the most part left intact.

We see what a detailed delineation, stake out, and evaluation will yield.

I emailed the owner this assessment and a proposal but haven't heard back from him.

Tom

FYI I also stopped by Groom Road. I think there once was some soil there, however all but a small area in the back was disturbed. Not really anything I can do without getting really creative, way out of the box.



General Site Location

In a message dated 11/29/2016 12:08:28 P.M. Eastern Standard Time, KWolf@howardcountymd.gov writes:

Good enough. Thanks for the update.

From: TWA220@aol.com [mailto:TWA220@aol.com]
Sent: Tuesday, November 29, 2016 12:07 PM
To: Wolf, Kevin
Subject: Re: Tom Ashton 12470 Perillo Drive HIGHLAND

Thanks.

I hope to take a look at it tomorrow, report to Charlie Mess, then return for soil evaluation / fieldwork next MON the 5th.

Hope all is well.

Tom

In a message dated 11/29/2016 11:59:14 A.M. Eastern Standard Time,
KWolf@howardcountymd.gov writes:

Hey Tom,

Glad to hear from ya on this one. Charlie Mess has got a real "MESS"!! See attached... The original file is there along with Brian's perc's and a bed design he started which Steve and I could not figure out. He kept all perc tests along the road (highest elevation) except for hole A and B which were further down the center of the lot. Property is about 3Acres in size. The upper 24-36" was not delineated very well. I think this might be the best soil. Let me know when you go out to the site. I am booked this Thursday but I may have a window Friday and could swing by.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Bureau of Environmental Health

8930 Stanford Blvd.

Columbia, MD 21045

(o) 410-313-2645

(f) 410-313-2648



kwolf@howardcountymd.gov

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From: TWA220@aol.com [mailto:TWA220@aol.com]
Sent: Monday, November 28, 2016 4:37 PM
To: Wolf, Kevin
Subject: Re: Tom Ashton 12470 Perillo Drive HIGHLAND

Thanks, I maybe able to stop by later this week.

Tom

In a message dated 11/28/2016 4:35:07 P.M. Eastern Standard Time, KWolf@howardcountymd.gov writes:

Thanks Tom. Yea I'll send you the property file tomorrow. Looks like a good site for true drip.

----- Original message -----

From: TWA220@aol.com
Date: 11/28/16 4:15 PM (GMT-05:00)
To: "Wolf, Kevin" <KWolf@howardcountymd.gov>
Subject: Tom Ashton 12470 Perillo Drive HIGHLAND

Talked with Charlie Mess today about the above property.

Please send me what you have on the property so I can review before we discuss.

Hope all is well.

Tom W. Ashton
Environmental Health Specialist
Professional Soil Scientist

P.O. Box 220
Bluemont VA 20135
(540) 454 - 4672



"Stercus Accidit"

SOIL / SITE EVALUATIONS / HYDRAULIC CONDUCTIVITY TESTING
HYDRAULIC ASSESSMENT & LATERAL FLOW ANALYSIS
ALTERNATIVE AND INNOVATIVE SYSTEM DESIGNS
DRIP DISPERSAL / LOW PRESSURE DISTRIBUTION
AT GRADE / MOUND

AP 558076

(A)

Very Dense
Or Br Sa
Cl Loam
3'-3.5'
Very Dense
Sa Cl Loam
- Sa Loam
Turning to
a Med. Fine
Dense
Loamy Sa
Deeper
Trace Rock
8.5'
Mottling
9.5'
Water
seepage
Hard Bottom
12'

(B)

Dense Or
Br Sa Cl
Loam
3.5'-4'
Dense Sa
Cl Loam
Turning
to a Med
Loamy Sa
Deeper
Trace Rock
9.5'
Water
seepage
10'
Water
11'

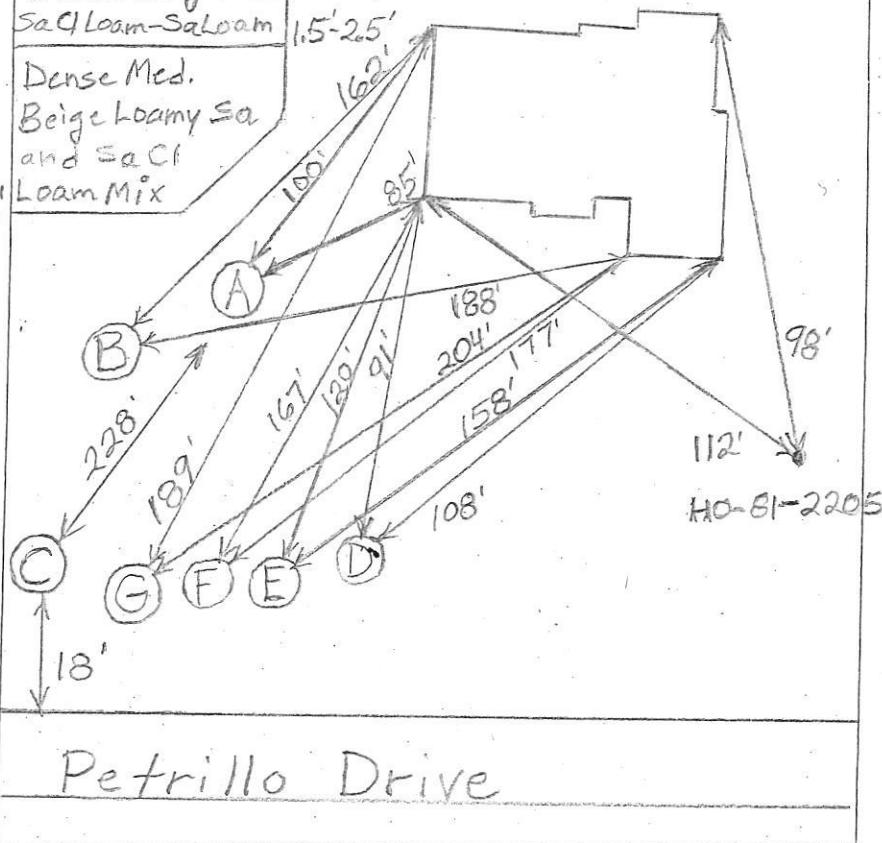
(C)

Dense Br
Sa Cl Loam
(Fill ?)
2'-2.5'
Dense Or
Br Med Sa
Cl Loam
3'-3.5'
Mod. Dense
Med. Fine
Sa Loam
Turning to
a Med. Fine
Beige and
Gray Loamy
Sa Deeper
11.5'
Water seepage
12'
Water
12.5'

(G)

Dense to Very
Dense Beige Med.
Sa Cl Loam - Sa Loam
1.5'-2.5'

Dense Med.
Beige Loamy Sa
and Sa Cl
Loam Mix
6'



(D)

Dense and
Very Dense
Br Cl Loam
5.5'-5.5'
Dense Or Br
Sa Cl Loam
5.5'
Mod. Dense
Or Br Sa Cl
Loam
8.5'
Gray Med.
Fine Med.
Dense Sa
Loam Turning
to a Loamy
Sa Deeper
~10% Rock
13'

(E)

Dense to
Very Dense
Or Br Sa
Cl Loam
6'
Mixture
of Dense
Sa Cl Loam
and Sa Loam
~8'
Dense Or
Br Sa Loam
~15% Rock
9'

(F)

Dense to
Very Dense
Red Br Cl
Loam
2'
Mixture of
Dense to
Very Dense
Red Brand
Beige Cl
Loam and
Med. Fine
Sa Loam
15-20%
Rock
6'

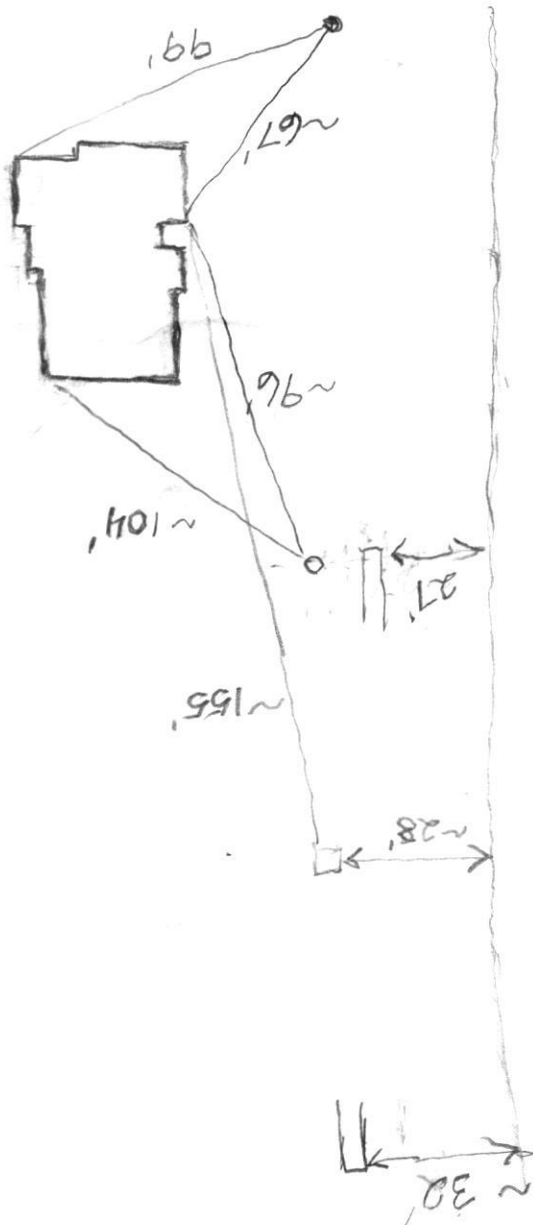
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/27/2016	A	4.5'/2'	11:25	Pulled Minutes	After ~3/4"	80	F
	B	4.5'/11'	12:13	1:10	~3/16"	Drop	F
	C	4.5'/25'	12:45	12:49	12:54	5	P
	D	4.5'/13'	1:22	Pulled - Slow			F
		7.5'	1:33	Pulled - Slow			F
		9'	2:02	2:12	2:36	24	H
	E	6'/9'	2:39	~5/8" in	30 Minutes		F
	F	7'/6'	3:12	3:47	~5/8" in 30 Minutes		F
	G	7'/6'	3:29	4:10	Pulled - Slow		F

REMARKS Soil Seems to Become More Porous With Depth

SANITARIAN B. Baker BACKHOE flatfields OTHERS

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

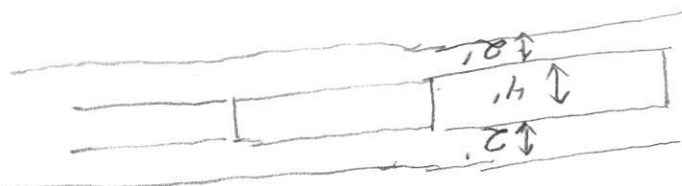
TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW



8'x140'

50 50 40

6' Hole Spacing



**DEPARTMENT OF GENERAL SERVICES
BUREAU OF CENTRAL SERVICES
CENTRAL FLEET VEHICLE MAINTENANCE REQUEST**

AGENCY: _____

VEHICLE NO. _____

DATE OF REQUEST: _____

MILEAGE: _____

THE FOLLOWING MAINTENANCE ITEMS ARE REQUESTED BY _____
NAME

☐ 3000 MILE ☐ 9000 MILE ☐ OTHER _____

COMMENTS: _____

AGENCY SUPERVISOR

MAINTENANCE WILL BE SCHEDULED WITHIN 48 HOURS AFTER RECEIPTS OF REQUEST.

DATE REQUEST RECEIVED: _____

DATE _____

DATE MAINTENANCE SCHEDULED: _____

DATE _____

PWH-27-994

SUPERVISOR

536°55'07"E

690.00'

L=276.04'
R=350.00'

60' B.R.L.

207'

LOT 19

DRIVE

TRILLO
C.R.M.

N18°00'00"E
220.00'

78°

DETAIL

EXISTING WELL
HO-81-2205

1.00'

Very (A)

Dense Or Br
Sa Cl Loam
3'-3.5'
Very Dense
Sa Cl Loam
- Sa Loam Trace
Turning to
a Dense Loamy
Sa Deeper
Mottling
9.5'
Water
Seepage
Hard
Bottom
12'

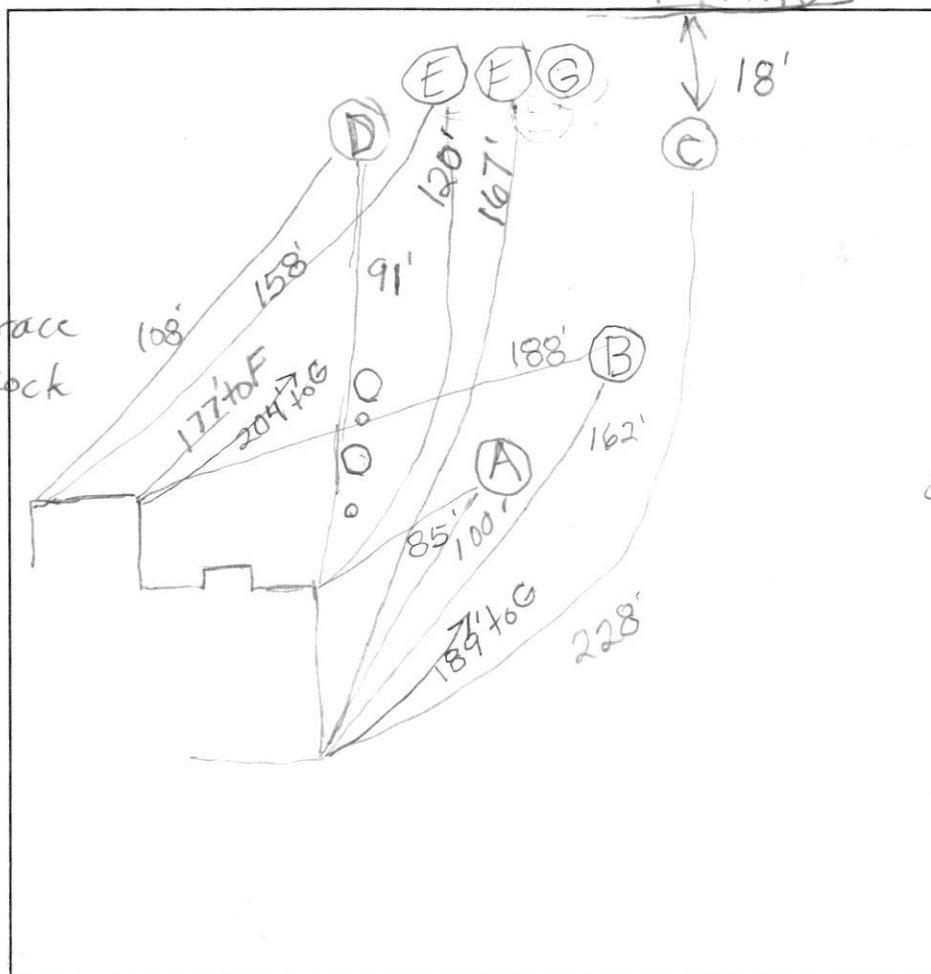
Very (B)

Dense Or
Br Sa Cl
Loam
3.5'-4'
Dense Sa
Cl Loam
Turning to
a Med
Loamy Sa
Deeper
Trace
Rock
9.5'
Water
Seepage
Water
11'

(C)

Dense Br
Sa Cl Loam
(Fill?)
2.5'
Dense Or
Br Med-
Sa Cl Loam
Mod. Dense
Med Fine
Sa Loam
Turning to a
Med Fine
Loam
Water
Seepage
Hard
Bottom

Trace Rock



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/27/16	A	4.5'/12'	11:25	Pulled ~3/4"	12:45		F
	B	4.5'/11'	12:13	1:10 ~3/16" movement			F
	C	4.5'/12.5'	12:45	12:49	12:54	5	P
	D	4.5'/13'	1:22	Pulled - slow			
		7.5'	1:33	Pulled - slow			
		9'	2:02	2:12	2:36	24	
	E	6'/9'	2:39	~5/8" in 30			
	F	7'/6'	3:12	3:47	5/8" in 30 minutes		
	G	7'/6'	3:29	4:10			

REMARKS

SANITARIAN

B. Baker

BACKHOE

Hatfields

OTHERS

Bottom

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SW

Until close to

(D)

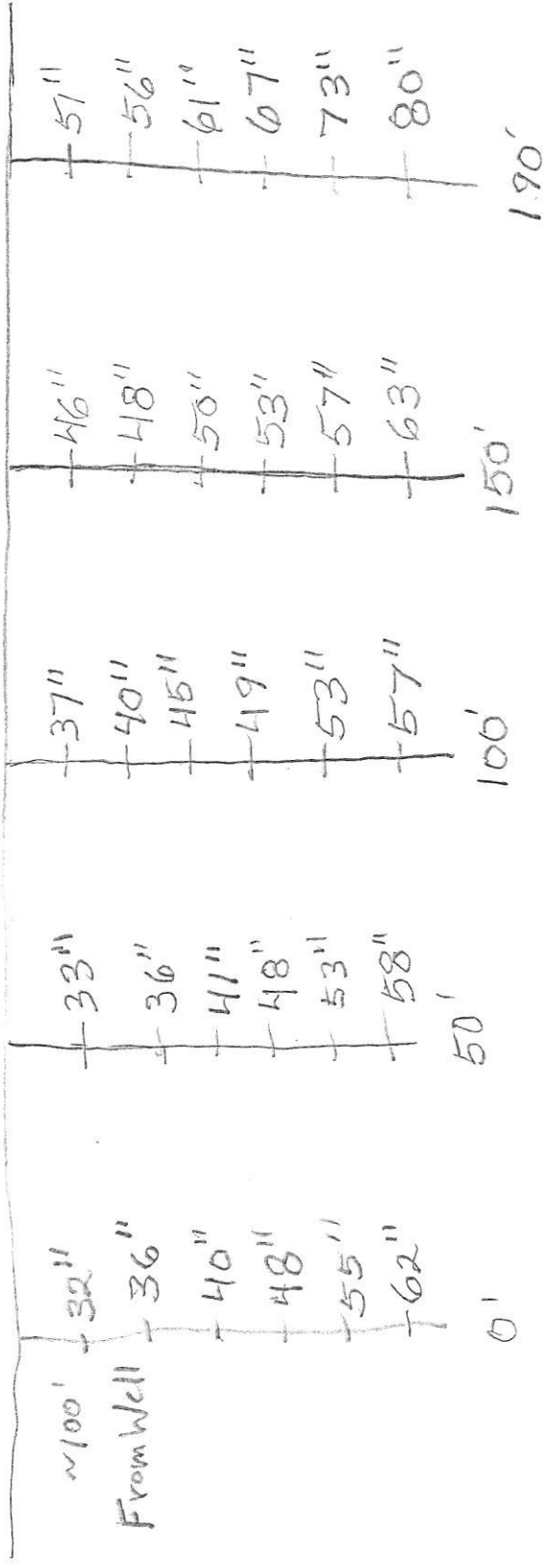
Very Dense
+ Dense
Br Cl Loam
2'
Dense Or
Br Sa Cl Loam
2.5'
Dense Or
Br Sa Cl
Loam
5.5'
Mod Dense
Or Br Sa Cl Loam
8.5'
Gray Med Fine
Med. Dense
Sa Loam
Turning
to a Loamy
Sa Deeper
~1/6% Rock
Dry
13'

(E)

Dense to
Very Dense
Or Br Sa
Cl Loam
6'
Mixture
of Dense
Sa Cl Loam
+ Sa Loam
Or Br Sa
Loam Dense
~15% Rock

~31'

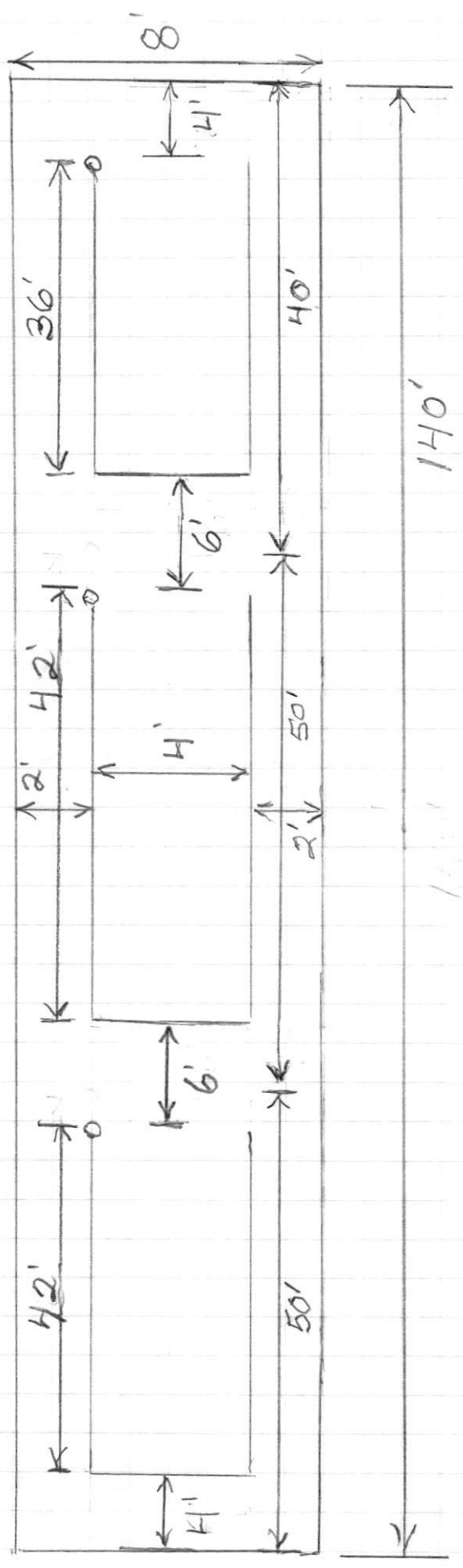
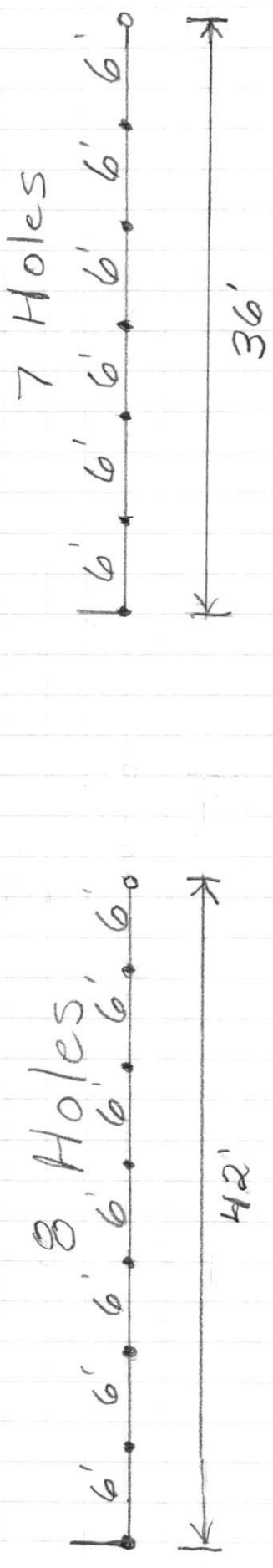
Pettrillo Drive



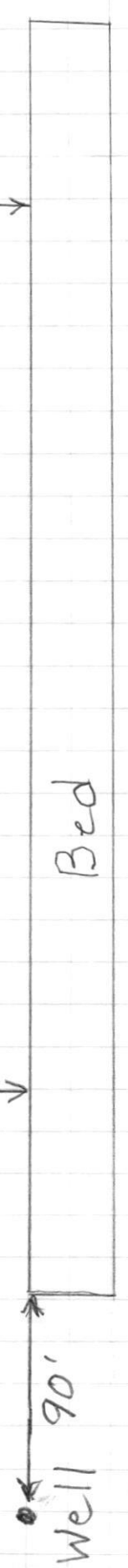
~28'
From Dist. Box
To Road

~31' From End
of Top Far Trench
From Road

12470 Petrillo Drive -



Petrillo Drive



12470 Petrillo Drive -

- Bed to Be 8' Wide x 140' Long
- Inlet $\rightarrow$ 2.5' to 3.5'
- Bottom $\rightarrow$ 7' to 8'
- 4.5' of Gravel Below Laterals and
Enough Gravel to Cover Laterals
- Geotextile Fabric on Top of Gravel
- Laterals 1 1/2" Schedule 40 Pipe
- Pump Line 3" Schedule 40 Pipe
- Bed to Be Installed 14' From Pavement
of Petrillo Drive and 90' From Well
- Lateral Hole Separation 6'
- Six Laterals in Bed
- Four 42' Laterals and Two 36' Laterals
- Three Turn-Ups on Laterals
- Lateral Holes 1/4" Inch Diameter
- 1/2 - 3/4 H.P. Pump
- Valve in Pump Tank

- 1250 Gallon Pump Tank if Using Two Tanks
- Pre-Treatment Unit Required