

Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME SINGH Property LOT # NA
PROPERTY ADDRESS 11859 Lime Kiln Rd Fulton &
STREET TOWN ZIP
TAX ACCOUNT # TAX MAP 46 GRID 1 PARCEL 183 ZONING DESIGNATION RR-DEO
PROPERTY OWNER(S) SURJIT SINGH & KAMALIT KAUR
DAYTIME PHONE CELL EMAIL

MAILING ADDRESS

STREET CITY, STATE ZIP
APPLICANT GREENLEAF BUILDERS, LLC. RELATIONSHIP TO OWNER: Contractor
DAYTIME PHONE 443-250-5483 CELL 410-977-1328 EMAIL hrbuilder@comcast.net
MAILING ADDRESS 1601 Jackson Street Baltimore, MD. 21230
STREET CITY, STATE ZIP

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

BUILDING

- ☒ RESIDENTIAL WITH _____ EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
☐ COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

PROPERTY:

- ☐ SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: _____
☒ CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
☒ REPAIR OR REPLACE FAILING OSDS
☒ UPGRADE EXISTING OSDS

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- ☐ YES
☒ NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
- THE APPLICATION FEE IS NON-REFUNDABLE
- THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
- THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

SIGNATURE OF APPLICANT

DATE

11855 & 11859 Lime Kiln Rd.

(3)

Lime Kiln Road

North

#11859

#11855

Bamboo Thicket

1

2

3

4

5

6

7

8

9

10

11

12

13

14

dk brn L
3 vlsbkdk brn & brn
L, 2 vlsbkdk, brn, brn
& yel-red
coarse14' L
prismaticyel-red L
coarse prismatic25' red-yel sl
v. coarse prismatic
brn clay skins
on ped faces5' dense, common
micared-yel ls
thick platy
many micathick white
coatings on
ped faces6' yel-red
ls, thick platy
many micathick white
coatings
on ped faces

11' water seeps

(2) dk grey-brn
to dk brn Lbrn red-yel L
coarse prismaticred-yel & brn
coarse prismatic28' red-yel & white
sl, thick platy
many mica5.8' yel-red ls
thick platy
many mica

11' water seeps

1
dk brn L
3 vlsbkpale brn L
2 vlsbkred-yel L
3 mlsbk

few mica

white and gray
sl, many mica3.5' yel-red sl, thick
many fine platy
white striations
many micadips near vertical
white coatings
on ped faces

14'

(2) dk brn L, 2 vlsbk
dk brn & brn L
2 vlsbkyel brn L
coarse prismaticred-yel
& yel-brn
L & sl, dm
dense

4' 3 p (pale yellow)

red-yel & white
sl, thick platy
many mica5.5' yel-red sl
many mica(9) white
seepsyel-red sl
moist, sticky

14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/26/15	1	5.7' / 10.5'	2:04	2:06	2:09	3	P
8/26/15	2	4.2' / 8.9'	2:56	3:46	—	—	F
8/24/15	3	6.5' / 10.5'	3:20	3:27	3:35	8	P
8/26/15	7	10.5'	Visual	3'-6.5' sidewall 1.2 gpd/G2	—	—	P
* Observed water Table in other locations and collapse of shelf at #1 may indicate presence of saturated soils at location #1 approx. 11' to 12'.							

REMARKS

SANITARIAN

R Bricker

BACKHOE

Dan

OTHERS

Steve Forney

TEST HOLES USED IN SDA

MAM Sediment Control Co.

AVG. PERC TIME

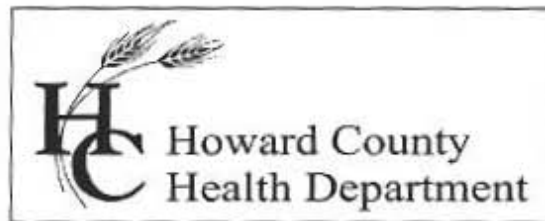
SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SW



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21045

Main: 410-313-1771 | Fax: 410-313-2648

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

September 29, 2015

To: Stephen Forney, Greenleaf Builders, LLC, Applicant

RE: Percolation Test Report. 11855 and 11859 Lime Kiln Road

Percolation testing at 11855 and 11859 Lime Kiln Road, Parcels 182 and 183, respectively, was conducted on August 26, 2015. The reason for conducting the percolation tests was to establish sewage disposal areas (SDA) on each parcel so that each parcel could be improved with either a new residence or a rebuilt residence. In all, six test locations were staked on the two parcels.

Three (3) locations were tested and/or the profile described on Parcel 182. Test locations '4' and '6' PASS with a loading rate of 0.8 gpd/sq-ft. Location '3', dug about 25 feet west of the corresponding staked location, was a nonconventional 'PASS', i.e., having a loading rate of 0.4 gpd/sq-ft.

An existing septic system trench was observed at locations 4 and 6. The trench location, along with the location of the existing septic tank, complicates the potential to design a minimum of two drainfield systems on Parcel 182.

Four (4) test locations were dug on Parcel 183. Locations '1', '3', and '7' 'PASS'. A loading rate of 0.8 gpd/sq-ft is typical for the area represented by tests '3' and '7', and a loading rate of 1.2 gpd/sq-ft is appropriate for the area represented by location '1'. Location '7' was dug as a result of the 'FAIL' at location '2'. Location '7' was dug about 25 feet east of the stake for location '2'. No septic system components were observed on Parcel 183.

Locations of percolation tests that 'PASS' are used to define the sewage disposal areas (SDA) proposed on the Percolation Certification Plan. All percolation test locations, percolation test results, and suitable area for wastewater discharge are certified by the Approving Authority's signature of the Percolation Certification Plan. All percolation test locations must be field-located and the respective elevations documented on a Percolation Certification Plan. Field-run topography in and around the proposed SDA is required for certification. Proposed locations for at least two sets of trenches on each Parcel are to be included on the Percolation Certification Plan. A Trench Specifications Sheet with preliminary loading rates for each potential system on each Parcel is included as an attachment to this report.

Wells on neighboring parcels will have to be replaced to define SDA on each Parcel, and those wells will be downgradient of septic systems on Parcels 182 and 183. BAT units shall be installed in upgraded septic systems on Parcels 182 and 183, and all drainfields shall be designed for low-pressure distribution on both parcels.

The sequence of events, beginning with submittal of the Percolation Certification Plan, should proceed as follows: (1) Review and revision/approval of the Percolation Certification Plan; (2) Replacement of wells on neighboring parcels and the installation of a well on Parcel 183; (3) Review and approval of a BAT Site Plan for development of Parcel(s) with approved SDA and well.

Ernst Environmental Services, Inc.
1907 Midland Road
Baltimore, MD 21222
(410)288-5081

**Summary of Sewage Disposal System Design
For
11859 Lime Kiln Road
5th Election District
Howard County**

This system design is prescriptive following soils evaluations by Howard County Health Department to accommodate re-development of an existing improved lot with a new four (4) bedroom home.

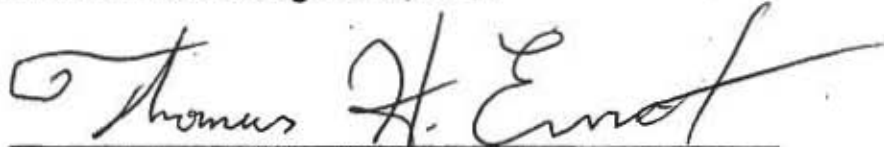
The design specifies advanced treatment (BAT) with a two tank Hoot BNR600 treatment system upgraded with a Blaster 33EB05 recirculating pump which will accommodate specified time dosed discharges to a series of two (2) low pressure dosed deep trenches. The discharges of the pump to the low pressure distribution lines is controlled by the Hoot controller which is standard to the BNR600 system.

Orifice placement varies between "upper" and "lower" trenches do to one (1) foot difference in elevation of discharge laterals. Close attention to "pressure Distribution in Field Laterals" chart and "Fabrication Detail" graphic is recommended. The last orifice in each lateral is to be placed in crown of turn-up. An observation pipe is specified for each trench.

No changes in tankage or equipment specified without prior approval
Ernst Environmental Services, Inc.

Certification of Design

The design of the on-site sewage disposal system for 11859 Line Kiln Road is the work of Thomas H. Ernst, Licensed Environmental Health Specialist in the State of Maryland #414 valid through June, 2017.



Thomas H. Ernst LEHS 414

OK
5/25/17

1 rev.

Ernst Environmental Services, Inc.
1907 Midland Road
Baltimore, MD 21222
(410)288-5081

Approved Septic System Plan
Howard County Health Department

HOOT 600 BNR with
1500-gal Pump Chamber
4 GOULDS 33EB05 Pump
R. Buehler 5/25/17
Signature Date

REPLACEMENT
ON-SITE SEWAGE DISPOSAL SYSTEM
UTILIZING
HOOT BRF TREATMENT SYSTEM
AND
LOW PRESSURE DOSED (LPD)
DEEP TRENCHES

Engineering Design Detail

For

Surjit Singh & Kamaljit Kaur
11859 Lime Kiln Road
5th Election District

HOWARD COUNTY

14-December-2016

GgB

C.I.L.L. LLC
11835 SCAGGSVILLE ROAD
TAX MAP 41, GRID 19, PARCEL 486
5311/125

SURJIT SINGH AND
KAMALJIT KAUR
11859 LIME KILN ROAD
TAX MAP 46, GRID 1, PARCEL 183
15902/152

EX. HOUSE TO BE
REMOVED. EX. WELL
MAY BE IN HOUSE AND
IS REQUIRED TO BE
SEALED AND
ABANDONED

SURJI
KAN
11855

ed Septic System Plan
County Health Department
LIME KILN ROAD

B17000726
4 Bedroom SED

APPROX. LOCATION
EX. TRENCHES
INSTALLED 1988
P338321

1500 GAL
MATER GAC
TANK

EX. WELL
HO-15-0243

ALT.
WELL

EX. HSE
#11859
T.B.R.

SHED
T.B.R.

EX. HSE
#11855

EX. PIT WELL
SEALED

EX. SEPTIC TANK

DENSE BAMBOO

DENSE BAMBOO

BUILDING TO BE
REMOVED (T.B.R.)
OLD TRENCH

SEWAGE DISPOSAL SYSTEM
SITE PLAN

11859 LIME KILN ROAD
5th ELECTION DISTRICT
HOWARD COUNTY
SCALE 1 IN = 30 FT

Revised December 14th, 2016

GgB

2 rev

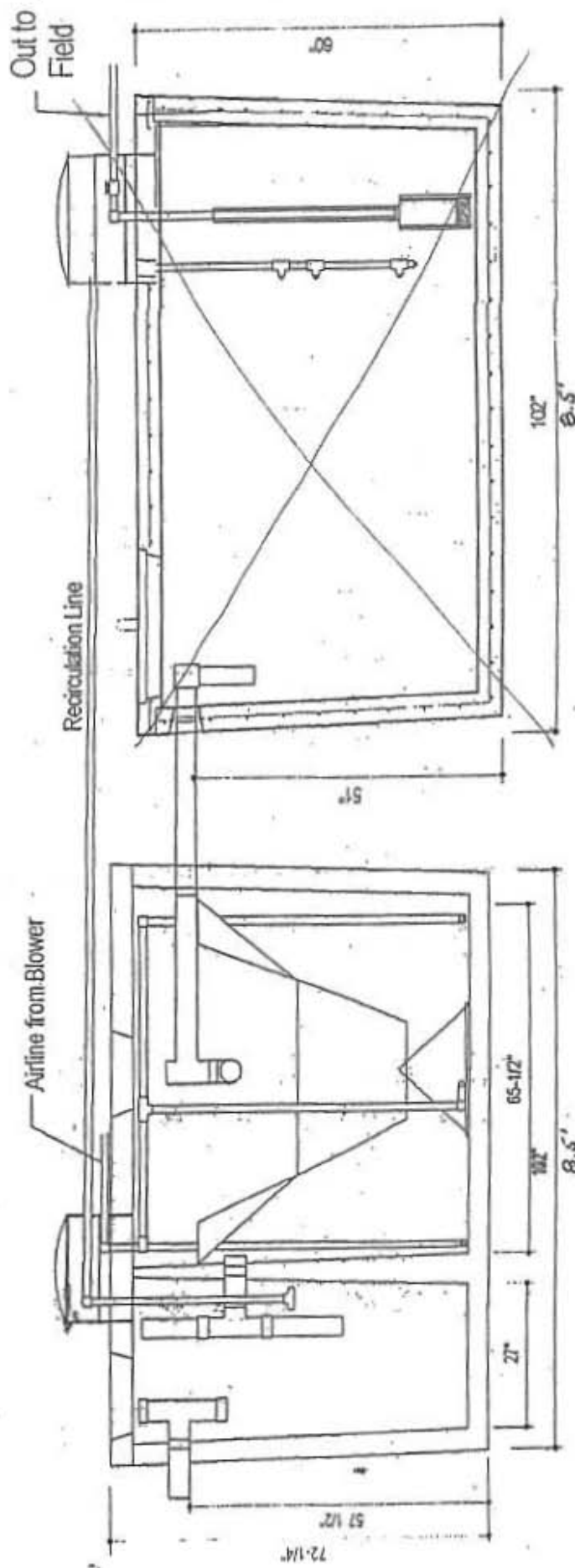
Required BAT Site Plan Notes

1. Any change to the locations or depths to any components must be approved by the engineer and the Howard County Health Department prior to installation. A revised site plan may be required.
2. The maximum depth of the BAT per the manufacturer's specification is 3 feet.
3. The blower may not be located more than 50 feet from the tank based on the manufacturer's specifications.
4. The BAT system shall be maintained and operated for the life of the system.
5. The BAT shall be operated by and maintained by a certified service provider.
6. Within one month of installation, a person installing the BAT system shall report to the Maryland Department of the Environment (MDE) in a manner acceptable to MDE, the address and date of completion of the BAT installation and the type of BAT installed.
7. Electrical work for the BAT installation must be performed by a licensed electrician.
8. An Agreement and Easement must be completed and signed by all applicable parties, and recorded in Land Records of Howard County.
9. The Health Department requires documentation for the start-up certification from the manufacturer prior to final approval of the installation.

12/6/2012

'OK'
RB 5/25/17

Page 2 of 2



Width = 68" = 5.7'
 X see 1500 pump tank
 PG 4b

ELEVATION

Width = 77'-1 1/2" = 6.5'

DESIGN DATA & GENERAL NOTES

- [1] Concrete strength f'c = 4000 p.s.i. @ 28 days. Density = 150 p.c.f.
- [2] Cement - Portland Type III per ASTM C 150-52.
- [3] Aggregates & proportions per ASTM C 309-95 & C 401-92.
- [4] Reinforcing per ASTM A101, Min. 1-10" gage.

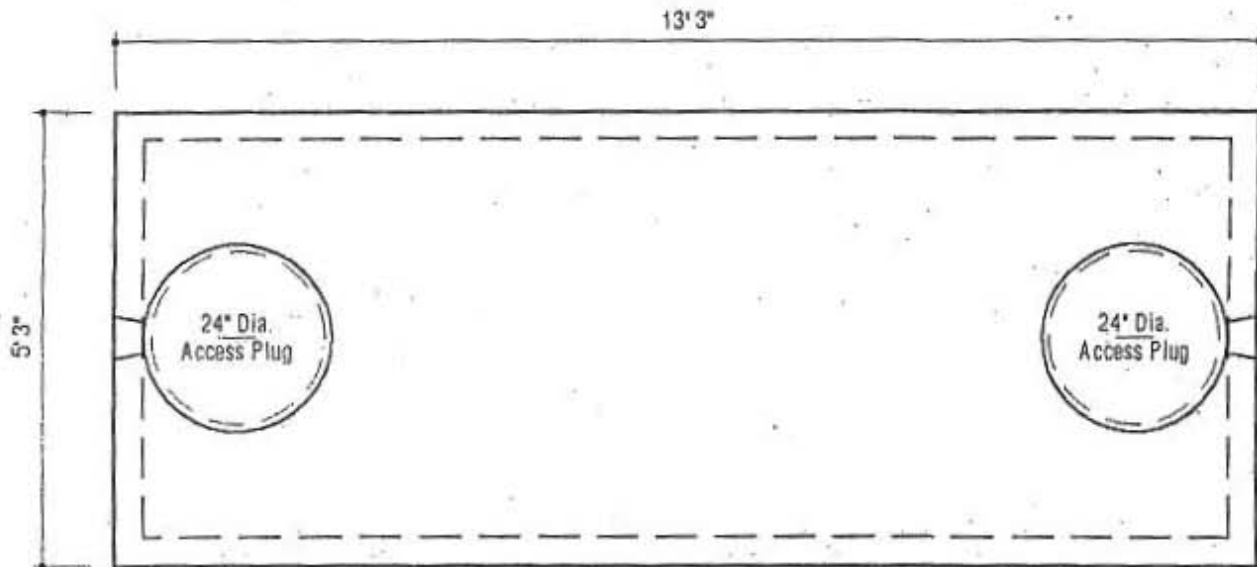
Mayer Brothers, Inc.
 6264 Race Road
 Elbridge, Maryland 21075
 Tel. 410.796.1434
 Fax. 410.796.1438
 www.mayerbrothersprecast.com

MBI

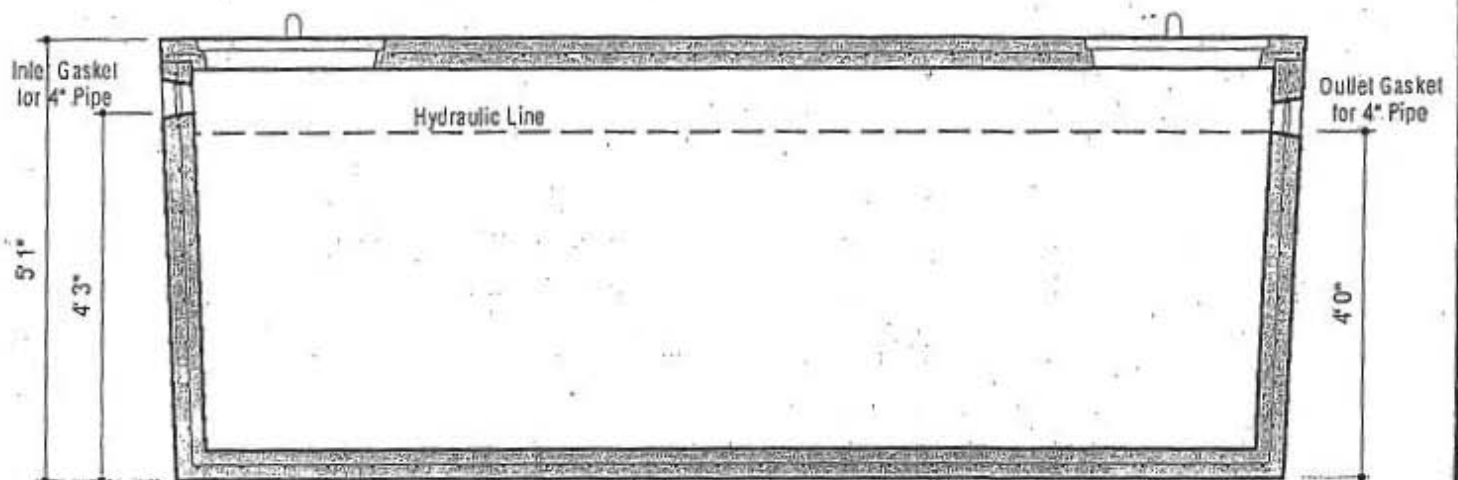
Hoot 600 BNR

National Vault 1000 Pump Chamber

Drw: National Vault No Scale Sept 24, 2013



PLAN VIEW



SECTION A-A

DESIGN DATA & GENERAL NOTES

- [1] Concrete strength $f'_c = 4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/II per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A185. Min. 1-1/2" cover.
- [5] Top slab sealed with butyl rope mastic.
- [6] 4" wall, base, & top thickness.

MBI

Mayer Bros., Inc.

6264 Race Road
Elkridge, Maryland 21075
Tel. 410.796.1434
Fax. 410.796.1438

www.mayerbrosprecast.com

1,500 GALLON SEPTIC/PUMP TANK
1-Compartment

NON-TRAFFIC MAX 3 ft. OF COVER

Dwg. No. 1500-1C

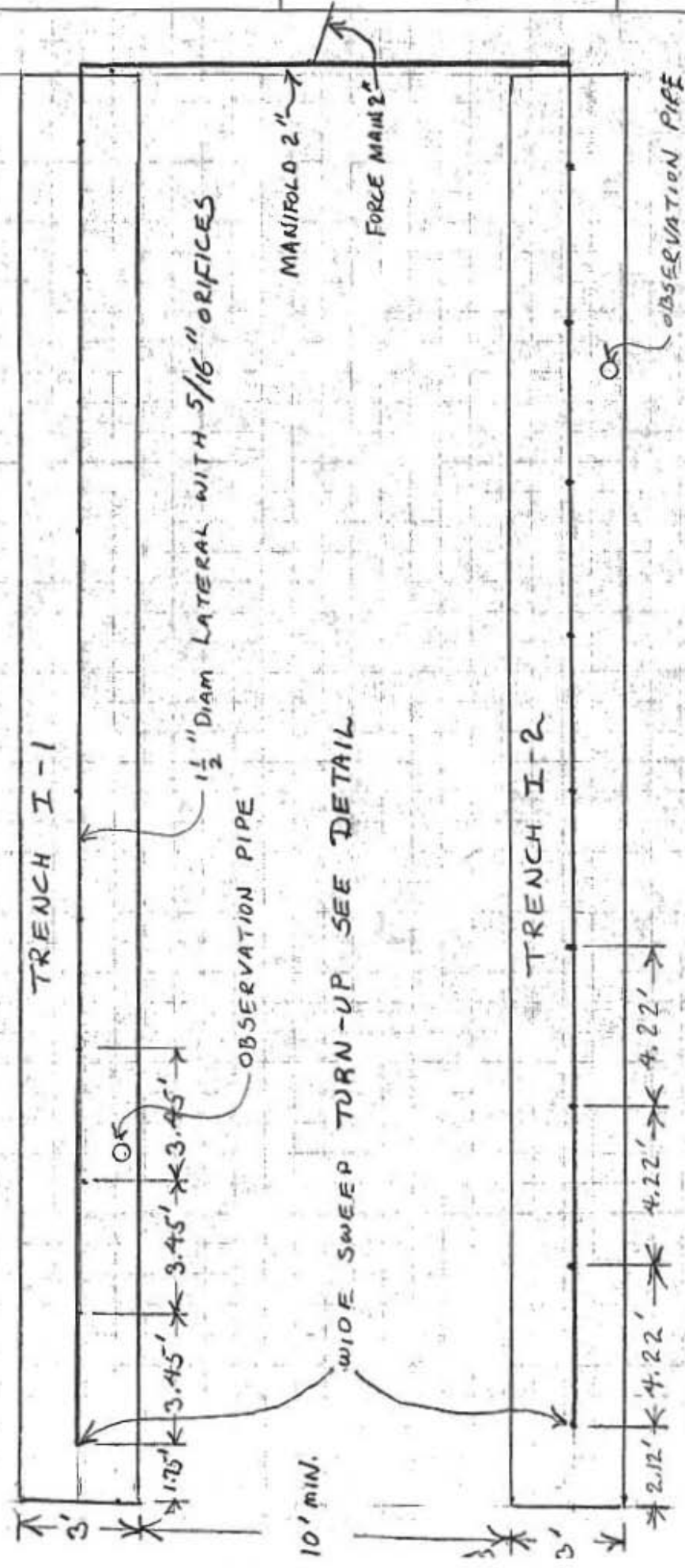
No Scale

Jan 1, 2000

5

'OK'
reB
5/25/17

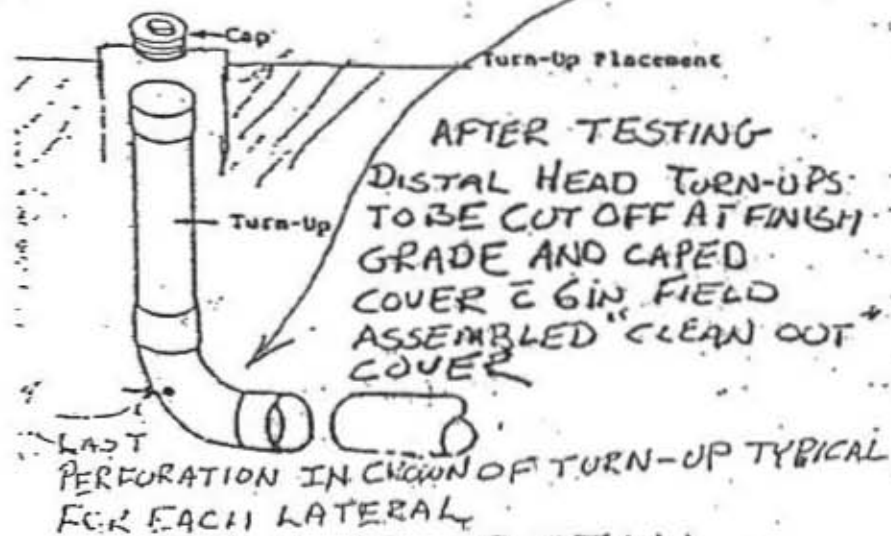
SYSTEM FLOW RATE = 35.86 GPM



FABRICATION DETAIL
11859 LIME KILN ROAD
HOWARD COUNTY

OK
21/52
25/112

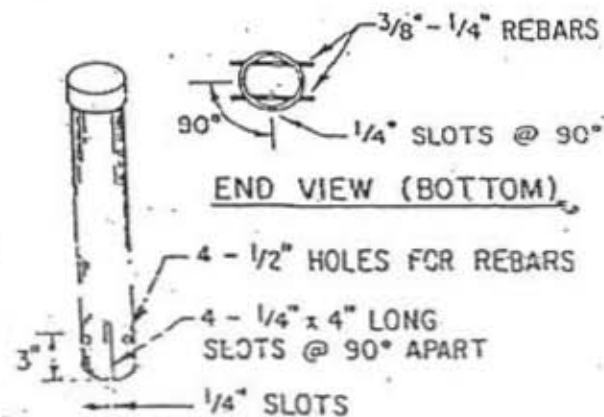
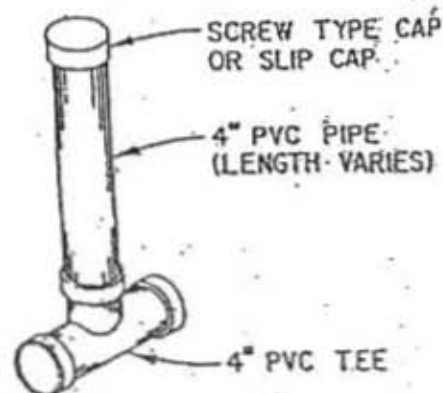
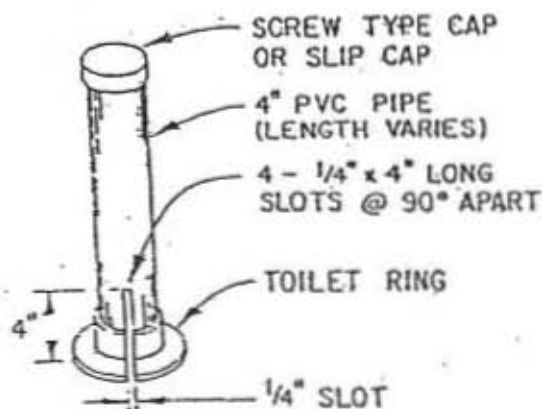
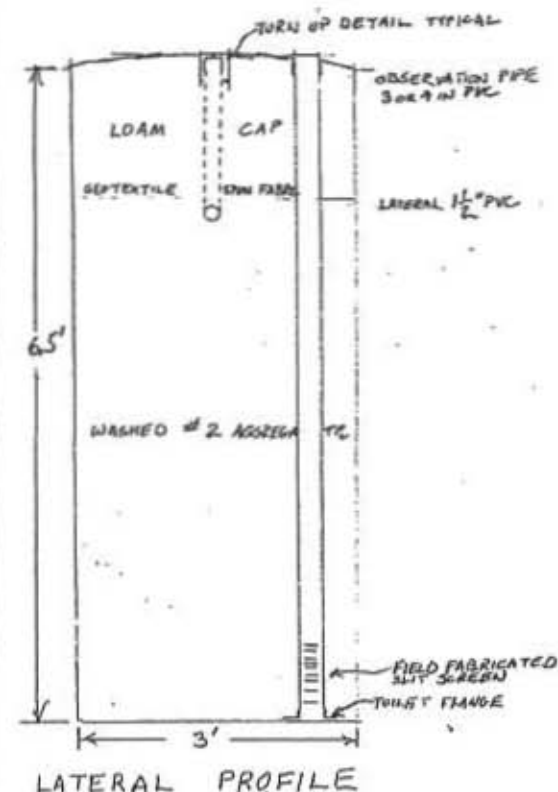
NOTE: SIM/TECH WASTEWATER CLEANOUT SWEERS SPECIFIED



AFTER TESTING
DISTAL HEAD TURN-UPS
TO BE CUT OFF AT FINISH
GRADE AND CAPED
COVER ± 6 IN. FIELD
ASSEMBLED "CLEAN OUT"
COVER


TURN-UP DETAIL

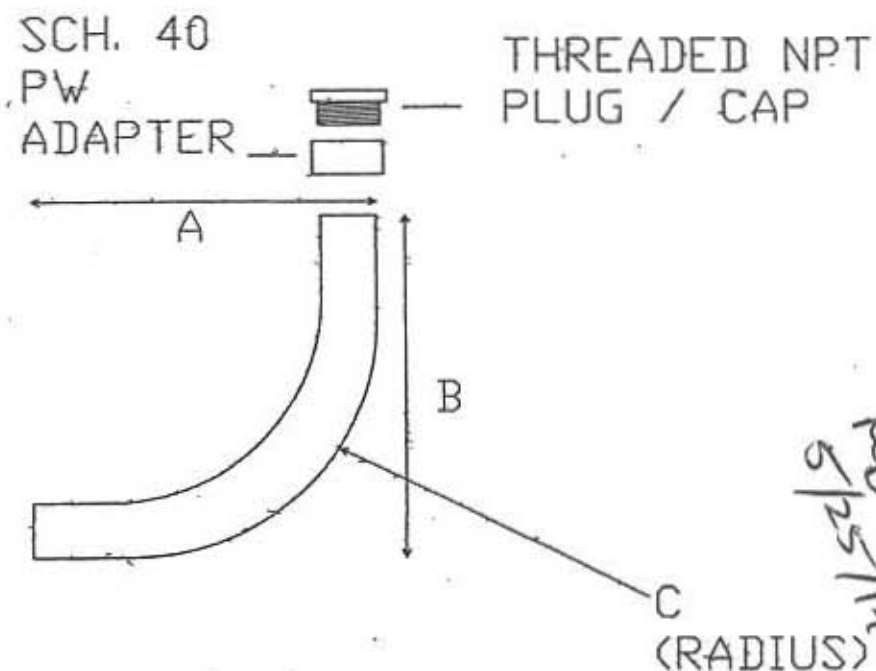
OK
6/25/17




OBSERVATION PIPE CONSTRUCTION ALTERNATIVES

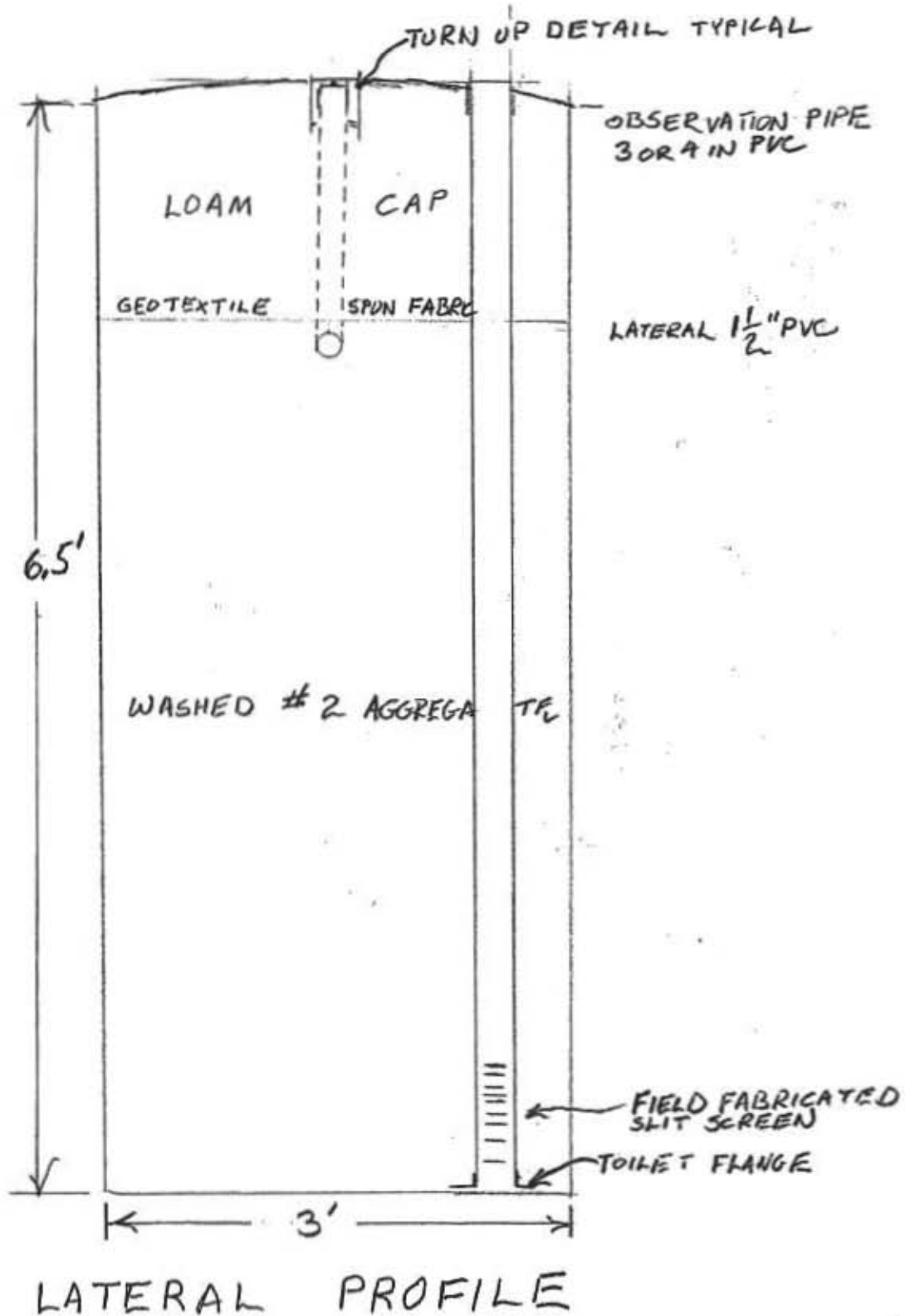
CLEAN-OUT SWEEPS DIMENTIONS (INCHES)				
	PART NUMBER			
DIMENTION	STF-111L-1.00	STF-111L-1.25	STF-111L-1.50	STF-111L-2.00
A	8.25	10	11.5	12.5
B	8.25	10	11.5	12.5
C	5.75	7.25	8.25	9.5


 CROSS SECTION
 0.150" WALL
 THICKNESS



PART# STF-111L	DATE: 09/08/06
MATERIAL: PVC	REV: A
DRAWN BY: JASON MAY	APPROVED BY:
DESCRIPTION: WASTEWATER CLEAN-OUT SWEEPS	

'OK' ^{red}
5/25/17



Ernst Environmental Services, Inc.
1907 Midland Road
Baltimore, MD 21222
(410)288-5081

'OK'
reB
5/25/7

Surjit Singh & Kamaljit Kaur
11859 Lime Kiln Road
5th Election District

DISTRIBUTION NETWORK DESIGN

ELECT TO USE END FED DISTRIBUTION LATERAL DESIGN

ELECT TO USE $\frac{5}{16}$ INCH PERFORATIONS IN ALL LATERALS

FROM TABLE 4.1 OF MD SAND MOUND DESIGN MANUAL
USE $1\frac{1}{2}$ INCH DIAM PIPE FOR LATERAL

TURN UPS TO BE PROVIDED ON EACH LATERAL END

2ft height

LAST PERFORATION TO BE PLACED IN 90° ELL AT ELEVATION OF
TOP OF LATERAL (SEE DETAIL OF TURN UP)

FORCE MAIN TO BE 2 INCH DIAMETER

DOSE DESIGN

LENGTH OF FORCE MAIN = 53 FT

LENGTH OF LATERALS = 72.13 FT

DOSE = VOL F.M. + 5(VOL. LATERALS)
= $((53 \text{ FT} \times 19.6 \text{ GALS})/100 \text{ FT}) + 5((72.13 \text{ FT} \times 12.6 \text{ GALS})/100 \text{ FT})$
= 10.4 GALS + 5(9.08 GALS)
= 55.8 GALS

DOSE = $\frac{1}{6}$ DESIGN FLOW
= 600 GALLONS/6
= 100 GALLONS

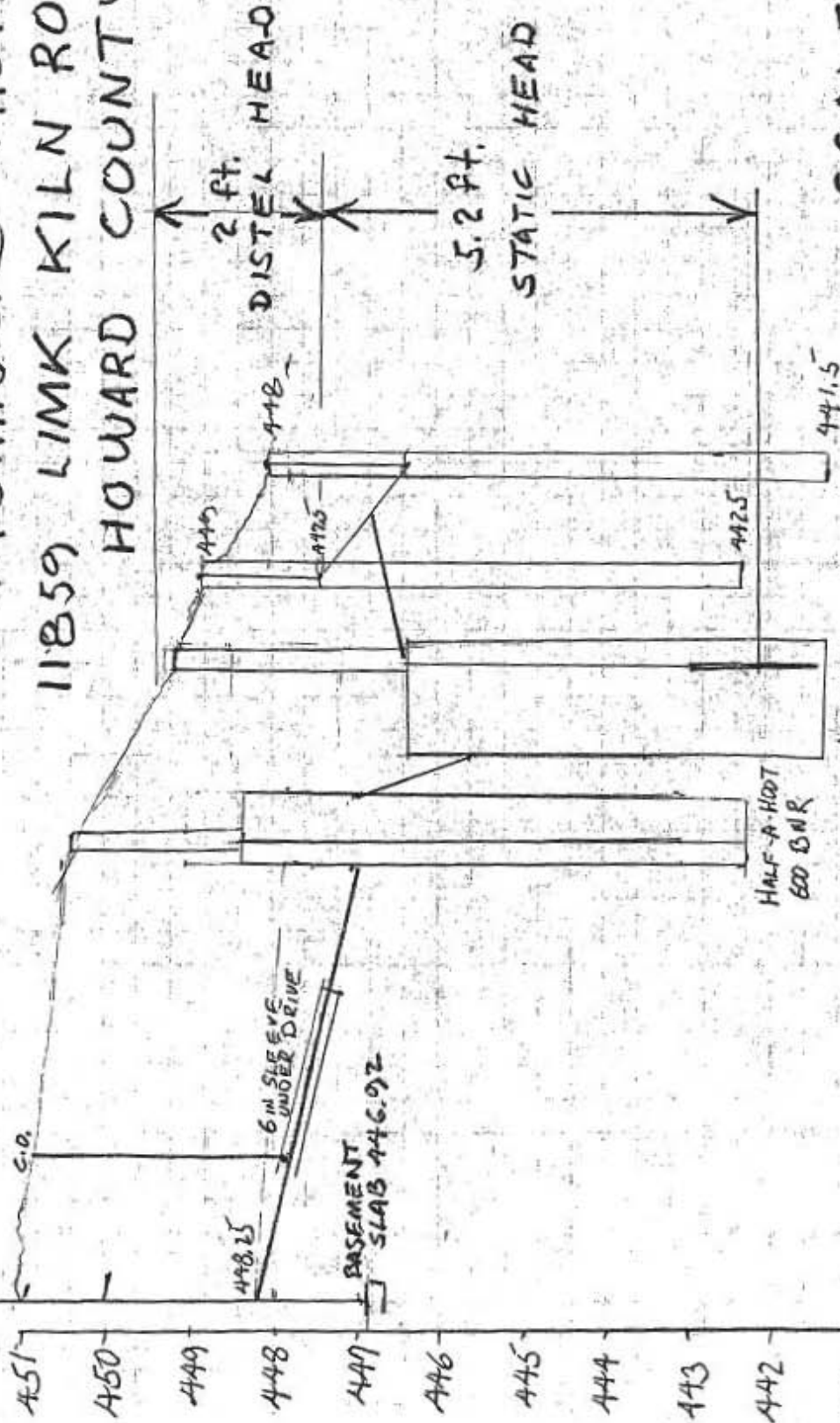
USE 100 GALLONS FOR DOSE

ELECT TO TIME DOSE AT A FLOW OF 36 GALLONS PER MINUTE
FOR 2.5 MINUTES, 12 TIMES PER DAY

HYDRAULIC PROFILE 11859 LINK KILN ROAD HOWARD COUNTY

NOTE F.F. 455.92

451
450
449
448
447
446
445
444
443
442
441
440



OK, 7/8 5/25/17

SCALES

HORIZONTAL 1"=20 FT.
VERTICAL 1"=2 FT.

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Surjit Singh & Kamaljit Kaur
11859 Lime Kiln Road
5th Election District
Howard County

OK
reB
5/25/17

PUMP SIZING
FLOW

FLOW = TOTAL TRENCH FLOWS
= 36 GPM

DESIGN HEAD

DESIGN HEAD = STATIC + FRICTION + DISTAL HEADS
STATIC HEAD = 5.2 FT (SEE HYDRAULIC PROFILE)

FRICTION HEAD (PIPE)

63 FT (2 IN PIPE FORCE MAIN & MANIFOLD)
14 FT (2 - 90° ELL)
2 FT (1 - UNION)
2 FT (1 - COUPLING)
2 FT (1 - BALL VALVE)
20 FT (EQUIVALENT LENGTH)

PIPE LENGTH = REAL LENGTH + EQUIV LENGTH
= 63 FT + 20 FT
= 83 FT

2 IN PIPE HAS FRICTION LOSS OF (2.05 FT/100 FT) @
35 GPM

FRICTION HEAD (PIPE) = (2.05 FT/100 FT) x 83 FT = 1.7 FT

DISTAL HEAD = 2 FT

DESIGN HEAD = 5.2 FT + 1.7 FT + 2 FT
= 8.9 FT

PUMP MUST DELIVER 36 GALLONS PER MINUTE AT TOTAL HEAD
OF 8 FT

RECOMMEND GOULDS MODEL 33EB05 BLASTER 
THIS PUMP SUPPLIED AS AN UPGRADE TO HOOT TREATMENT SYSTEM

(SEE ATTACHED SPECIFICATION SHEET)

BLASIER®

Filtered
Effluent
Pump

SPECIFICATIONS

Model	Flow Range GPM	Horsepower Range	Best Eff. GPM	Discharge Connection	Maximum Solids Size	Rotation
8EB	1.5 - 10	1/2 - 1	7	1 1/4"	1/8" dia.	CCW
12EB	3 - 16	1/2 - 1 1/2	10	1 1/4"	1/8" dia.	CCW
20EB	6 - 28	1/2 - 1 1/2	18	1 1/4"	1/8" dia.	CCW
33EB	10 - 50	1/2 - 1 1/2	33	1 1/4"	1/8" dia.	CCW
55EB	20 - 80	1/2 - 1 1/2	55	1 1/4"	1/8" dia.	CCW

① Rotation is counterclockwise when observed from pump discharge end.

"EB" SERIES MATERIALS OF CONSTRUCTION

Part Name	Material
Discharge Head	Glass Filled Eng. Composite
Bearing Spider – Upper	Noryl®/ GFN2
Bearing	Proprietary Eng. Polymer
Shaft Retaining Ring	AISI 301 SS
Diffuser	Lexan®
Impeller	Noryl®/GFN2
Bowl	AISI 304 SS
Shim	AISI 304 SS
Inlet Strainer	Glass Filled Eng. Composite
Screws – Cable Guard	AISI 304 SS
Motor Adapter	Glass Filled Eng. Composite
Casing	
Shaft	AISI 304 SS
Coupling	AISI 304 SS, Powder Metal
Cable Guard	AISI 304 SS

Lexan® and Noryl® are trademarks of GE Plastic.

Delrin® is a trademark of Dupont.

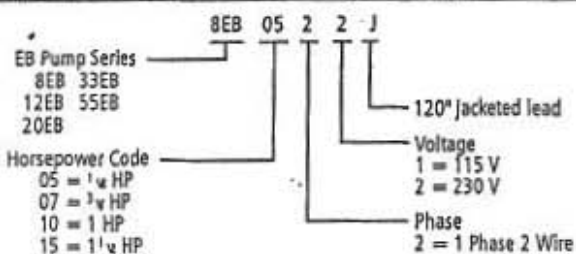


FEATURES

- **Designed for pumping filtered effluent from processed septic systems only.**
- **Field Serviceable:** Pump can be rebuilt in the field to like new condition with common tools and readily available spare parts.
- NOTE:** The pump has left hand casing threads.
- **Powered for Continuous Operation:** All ratings are within the working limits of the motor as recommended by the motor manufacturer. Pump can be operated continuously without damage to the motor.
- **Metal Parts are Stainless Steel:** AISI types 301 and 304 are corrosion resistant, non-toxic and non-leaching.
- **Non-Metallic Parts:** Impellers and diffusers are constructed of glass filled polycarbonate or Noryl, engineered composites. Both materials are corrosion and effluent resistant.
- **Discharge Head:** Engineered composite material for superior strength and corrosion resistance. Loops for safety line molded into head.
- **Motor Adapter:** Engineered composite material with high rigidity to provide accurate alignment of liquid end to motor. Generous space for removal of motor mounting nuts with regular open-end wrench.
- **Bowls:** Stainless steel for strength and abrasive resistance.
- **120" 3 wire jacketed motor lead standard.**

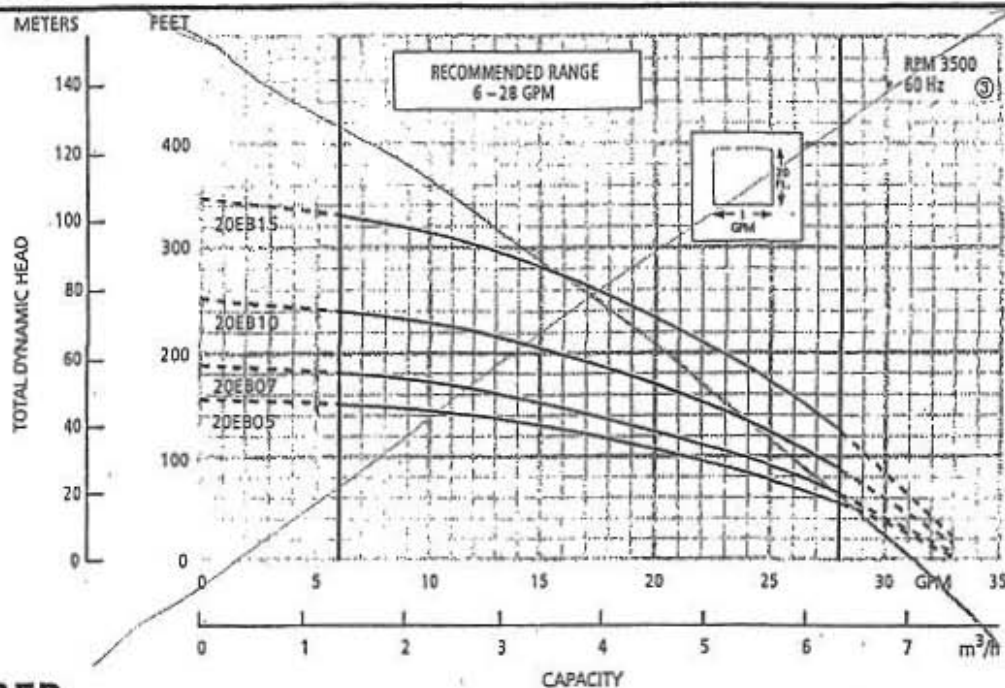
- **Warranted for one year** against failure due to workmanship and materials. Solids plugged pumps are not covered. Pumps used for liquids other than filtered effluent are not covered.
 - **Stainless Steel Casing:** Polished stainless steel is strong, attractive and corrosion resistant.
 - **Hex Shaft Design:** Six sided shaft for positive impeller drive.
 - **Inlet Strainer:** Molded suction strainer built into motor adapter.
 - **Engineered Polymer Bearings:** The proprietary, engineered polymer bearing material is extremely strong and highly resistant to abrasion and wear. The enclosed design upper bearing is mounted in a durable Noryl bearing spider for excellent abrasion resistance.
 - **NEMA Motor:**
 - Corrosion resistant stainless steel construction.
 - Built-in surge arrestor is provided on single phase motors.
 - Stainless steel splined shaft.
 - Hermetically sealed windings.
 - Replaceable motor lead assembly.
 - UL 778 recognized.
 - NEMA mounting dimensions.
 - **Agency Listings:** All complete pump/motor assemblies are UL778 and CSA listed. All 4" Motors are UL778 recognized.
 - **All models have 1/4" diameter bypass in discharge head** to ensure venting on start up.
- ③ See curves and note.

ORDER NUMBER CODE

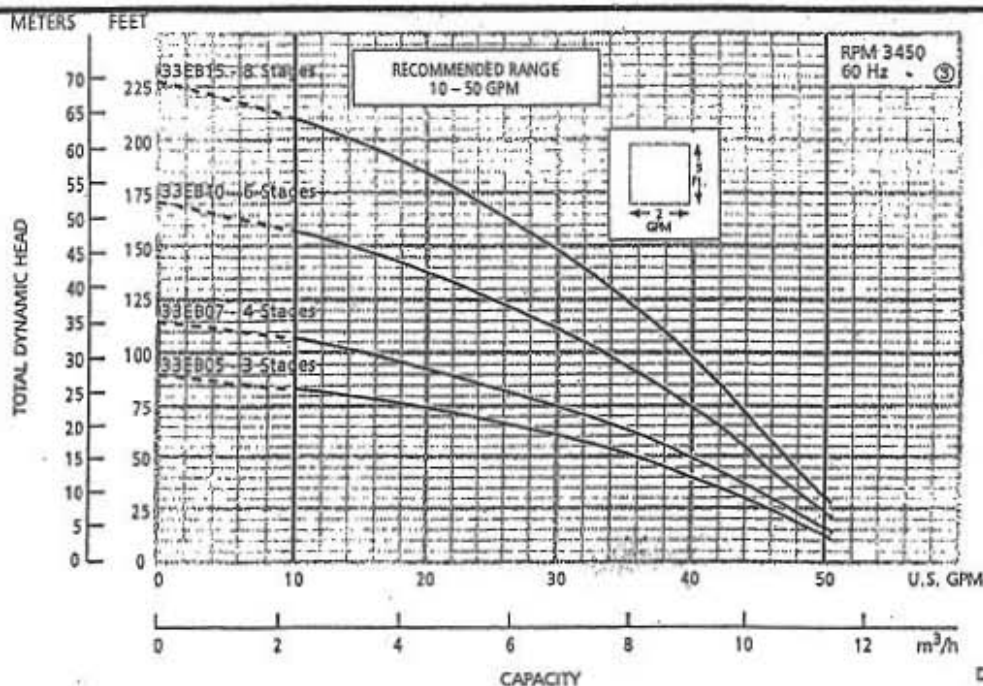


Model 20EB

FILTERED EFFLUENT BLASTER.



Model 33EB



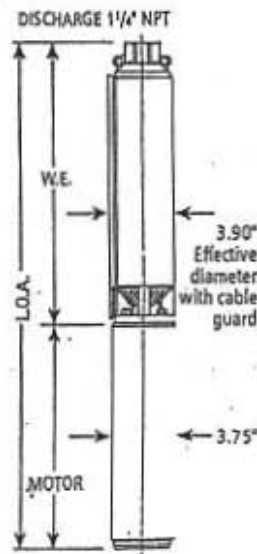
DIMENSIONS AND WEIGHTS

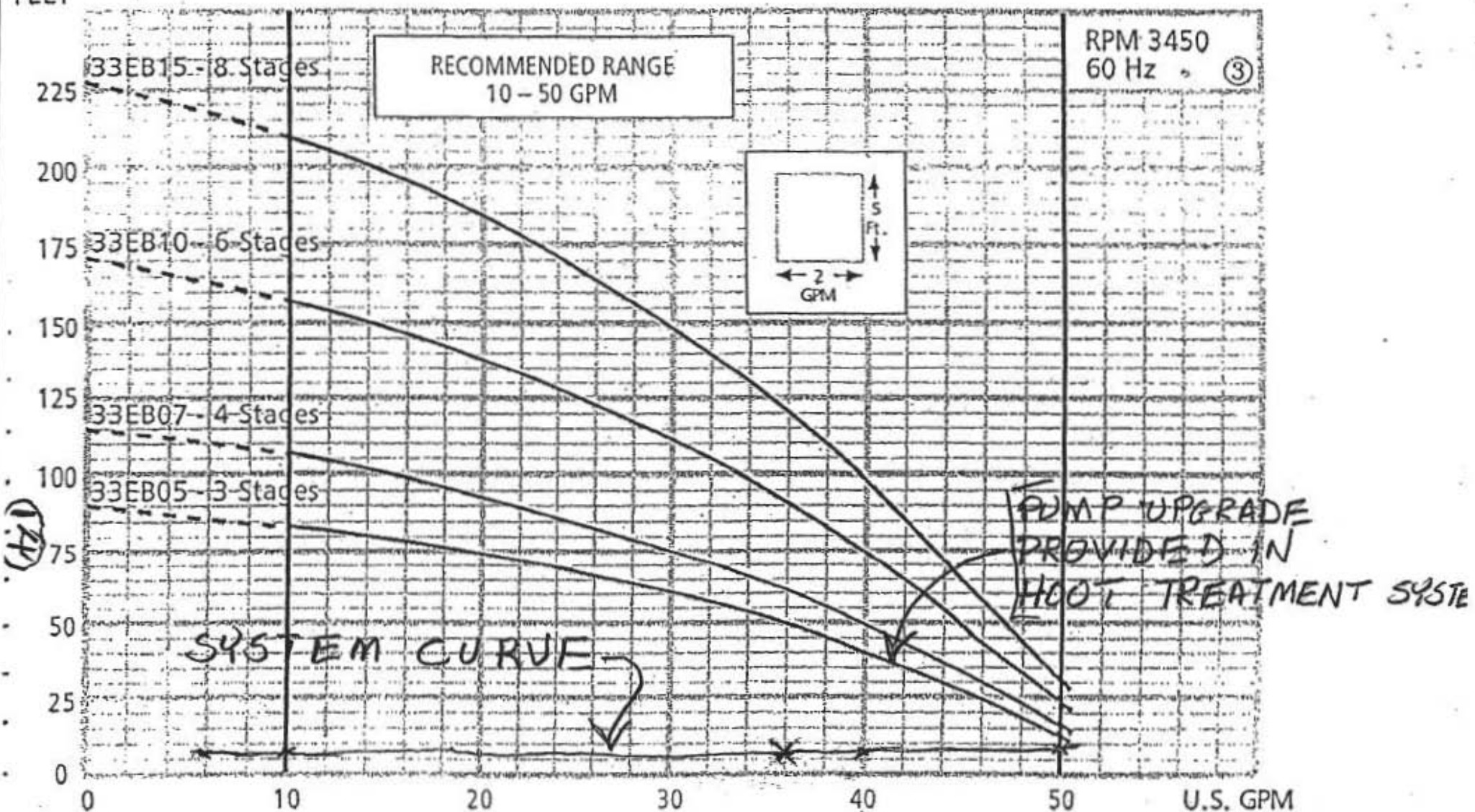
Order Number	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.①	Motor	L.O.A.②	W.E.	Motor	Total
20EB0522J, 20EB0521J	1/2	1	5	9.6	9.5	19.1	3	18	21
20EB0722J	3/4	1	6	11.3	10.7	22.0	4	20	24
20EB1022J	1	1	8	13.0	11.8	24.8	5	23	28
20EB1522J	1 1/2	1	11	15.5	15.1	30.6	6	31	37
33EB0522J, 33EB0521J	1/2	1	3	11.0	9.5	20.5	4	18	22
33EB0722J	3/4	1	4	12.2	10.7	22.9	5	20	25
33EB1022J	1	1	6	14.7	11.8	26.4	6	23	29
33EB1522J	1 1/2	1	8	17.1	15.1	32.2	7	31	38

① W.E. = water end or pump without motor.

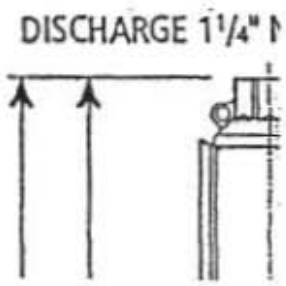
② L.O.A. = length of assembly - complete pump - water end and motor.

③ Performance curves are based on running pumps without 1/4" discharge head weephole. Actual performance will be slightly lower.





T.D.H.	7.23	7.28	7.48	CAPACITY 7.79	8	8.2	8.7
GPM	6	10	20	30	38	40	50



JRL

Department of Planning and Zoning
Howard County, Maryland
Recommendations/Comments

Date: _____

Hearing Examiner 12/5/16
Planning Board _____ Board of Appeals _____ Zoning Board _____

Petition No. BA-16-032 V Map No. _____ Block _____ Parcel _____ Lot _____

Petitioner: Greenleaf Builders, LLC

Petitioner's Address: _____

Address of Property: _____

Return Comments by November 14, 2016 to Public Service and Zoning Administration

Owner: (if other than applicant) _____

Owner's Address: _____

Petition: SEE APPLICATION

To: _____ MD Department of Education – Office of Child Care
3300 N. Ridge Road, Ste. 190, EC, MD 21043 (Louis Valenti)
_____ ☒ Bureau of Environmental Health
_____ Development Engineering Division
_____ Department of Inspections, Licenses and Permits
_____ Department of Recreation and Parks
_____ Department of Fire and Rescue Services
_____ State Highway Administration
_____ Sgt. Karen Shinham, Howard County Police Dept.
_____ James Irvin, Department of Public Works
_____ Office on Aging, Terri Hansen (senior assisted living)
_____ Police Dept., Animal Control, Deborah Baracco, (kennels)
_____ Susan Fitzpatrick, Health Dept. (Nursing & Res. Care)
_____ Land Development - (Religious Facility & Age-Restricted
Adult Housing)
_____ Housing and Community Development
_____ Resource Conservation Division – Beth Burgess
_____ Route 1 Cases – DCCP – Kristen O'Connor
_____ Telecommunication Towers – (Comm. Dept.)

COMMENTS:



DPZ Office use only:

CASE NO. BA 16-032 V

DATE FILED 9/22/16

**RESIDENTIAL DISTRICT VARIANCE PETITION
TO THE HOWARD COUNTY HEARING EXAMINER**

1. VARIANCE REQUEST

SECTION 105.O.E.4.b.(1) of the Zoning Regulations (describe)
to reduce the setback for a principal structure from a collector public street right of way from 75' to 23.3'

2. PETITIONER'S NAME Greenleaf Builders, LLC

TRADING AS (IF APPLICABLE) _____

ADDRESS 1601 Jackson Street, Baltimore, MD 21230

PHONE NO. (W) 410-977-1328 (H) _____

EMAIL hrbuilder@comcast.net

3. COUNSEL FOR PETITIONER Thomas M. Meachum; Carney Kelehan, et al.

COUNSEL'S ADDRESS 10715 Charter Drive, Suite 200, Columbia, MD 21044

COUNSEL'S PHONE NO. 410-740-4600

EMAIL tmm@carneykelehan.com

4. PROPERTY IDENTIFICATION

ADDRESS OF SUBJECT PROPERTY 11859 Lime Kiln Road (address pending)
Fulton, MD 20759

ELECTION DISTRICT 05 ZONING DISTRICT RR-DEO ACREAGE 21,780 sq ft

TAX MAP # 46 GRID # 1 PARCEL # 183 LOT # _____

SUBDIVISION NAME (if applicable) _____

PLAT NUMBER AND DATE _____

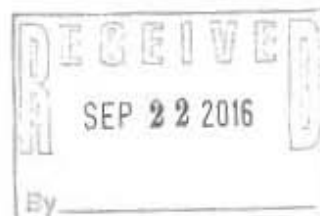
5. PETITIONER'S INTEREST IN SUBJECT PROPERTY

☐ OWNER (including joint ownership)

☒ OTHER (describe and give name and address of owner)

Surjit Singh, Kamaljit Kaur, 2634 Raptor Drive, Odenton, MD 21113

If the Petitioner is not the owner of the subject property, documentation from the owner authorizing the petition must accompany this petition.



**PLEASE READ CAREFULLY
DATA TO ACCOMPANY PETITION**

6. VARIANCE PLAN

No application for a variance shall be considered complete unless the plan indicates the required setback or other requirement, and the requested variance from the subject setback or other requirement. The submitted plans shall be folded to approximately 8 ½ x 14 inches.

The plan must be drawn to scale and must include the items listed below:

- ☐ (a) Courses and distances of outline boundary lines and the size of the property
- ☐ (b) North arrow
- ☐ (c) Zoning of subject property and adjoining property
- ☐ (d) Scale of plan
- ☐ (e) Existing and proposed uses, structures, natural features and landscaping
- ☐ (f) Location and surface material of existing and proposed parking spaces, driveways, and points of access; number of existing and proposed parking spaces
- ☐ (g) Location of all building and use restriction lines
- ☐ (h) Same as (a) through (g) above, of any adjoining, confronting and vicinal properties as necessary for proper examination of the petition, or, if applicable, a copy of the subdivision plat for the community
- ☐ (i) Location of well and private sewerage easement area, if property is to be served by private water and sewer
- ☐ (j) Election District in which the subject property is located
- ☐ (k) Tax Map and parcel number on which the subject property is located
- ☐ (l) Name of local community in which the subject property is located or name of nearby community
- ☐ (m) Name, mailing address, telephone number (and e-mail address if any) of the petitioner
- ☐ (n) Name, mailing address, telephone number (and e-mail address if any) of attorney, if any
- ☐ (o) Name and mailing address of property owner
- ☐ (p) Floor area and height of structures, setback distances from property lines, and other numerical values necessary for the examination of the petition
- ☐ (q) Location of subject property in relation, by approximate dimension, to the center line of nearest intersection of two public roads
- ☐ (r) Ownership of affected roads
- ☐ (s) A detailed description of all exterior building materials for all proposed structures
- ☐ (t) Any other information as may be necessary for full and proper consideration of the petition

7. VARIANCE

A) Describe why the application of the Zoning Regulations in question to your particular property would result in practical difficulties or unnecessary hardships in complying strictly with the bulk requirements:

1. The physical character of the property is different from the character of the surrounding properties because of its () narrowness, () shallowness, () shape, () topography,

Other; explain: Size of lot. It is less than one-half acre, unique to properties in this zoning district.

2. The uniqueness of the property prevents me from making a reasonable use of the property because: (1) to support a new house on the site the septic field had to be expanded greater than the original size that matched the lot size. This greatly restricts the area in which a house can be constructed, as shown on the plan.
Further, the septic area is located where it is because it has to be a certain distance from nearby wells. If the *

B) The intended use of the property, in the event the petition is granted: Residence

*subject property were larger, this would not be as much of a factor. The footprint of the proposed home is 2975 sf, a reasonable size footprint.

C) Any other factors which the Petitioner desires to have considered: This is an old residential property, reportedly the house is 75 years old. In order to make use of the property, the house has to be taken down, a new one erected, and also a new septic system constructed.

D) Explain why the requested variance is the minimum necessary to afford relief: As the plan shows, the building area for the house is extremely limited. The house being of a reasonable size, this is the minimum.

E) Is the property connected to: public water?: Y ☐ N ☒; public sewer?: Y ☐ N ☒

F) If the variance is granted, would it impact the water and/or septic/sewer on the site? Y ☒ N ☐

G) If the variance is granted, would it increase the intensity of uses on the site? Y ☐ N ☒ if yes, explain: The septic would be impacted in that a new modern system would be constructed.

H) If the requested variance is granted, would it increase traffic to or from the site? Y ☐ N ☒ if yes, explain: _____

I) Describe in detail all means of vehicular access onto the site (i.e. width, type of paving, etc.): _____
Macadam 16' wide.

J) Describe the topography of the site: The topography slopes down, front to back, at a 5% grade.

K) Will the existing or proposed structure be visible from adjacent properties? Y~~N~~; if yes, describe any proposed buffering or landscaping: Not necessary. This is a house and proposed variance is from the front street right of way.

L) Describe any existing buffering or landscaping: There is a dense collection of bamboo in the rear.

8. PRIOR PETITIONS

Has any petition for the same variance, or substantially the same variance as contained herein, for the same property as the subject of this petition, been disapproved by the Hearing Examiner within twenty four (24) months of the date of this petition? ☐ YES ☒ NO

If yes, and six (6) months have elapsed since the last hearing, an affidavit setting forth new and different grounds on which re-submittal is based must be attached.

9. ADDITIONAL MATERIAL, FEES, POSTING, AND ADVERTISING

- a) If desired, supplemental pages may be attached to the petition. The following number of petitions, plans and supplemental pages must be submitted:
- *If the subject property adjoins a State road- original and 19 copies (application & plans)*
 - *If the subject property adjoins a County road- original and 16 copies (application & plans)*
- b) The undersigned agrees to furnish such additional plats, plans, reports or other material as may be required by the Department of Planning and Zoning and/or the Hearing Examiner in connection with the filing of this petition.
- c) The undersigned agrees to pay all costs in accordance with the current schedule of fees.
- d) The undersigned agrees to properly post the property at least fifteen (15) days prior to the hearing and to maintain the property posters as required, and submit an affidavit of posting at, or before the time of the hearing.
- e) The undersigned agrees to insert legal notices, to be published one (1) time in at least two (2) newspapers of general circulation in Howard County, as prepared and approved by the Department of Planning and Zoning, within at least fifteen (15) days prior to the hearing, and to pay for such advertising costs; and further agrees to submit two (2) approved certificates of the text and publication date(s) of the advertisement at or before the time of the hearing.

10. PLANNING BOARD REVIEW

The Hearing Examiner may, at its discretion, refer a residential district variance petition to the Planning Board for review and a recommendation.

11. SIGNATURES

The undersigned hereby affirms that all of the statements and information contained in, or filed with, this petition are true and correct.

The undersigned has read the instructions on this form, filing herewith all of the required accompanying information.

Greenleaf Builders, LLC

Petitioners Name (please print)

Stephen L. Fomey 9-15-2016
Petitioner's Signature Date

Thomas M. Meachum

Counsel's Name (please print)

Thomas M. Meachum 9/17/16
Counsel's Signature Date

**For DPZ office use only: (Filing fee is \$300.00 plus \$25.00 per poster.)
(Make checks payable to "Director of Finance")**

Hearing fee: \$ _____

Poster fee: \$ _____

TOTAL: \$ _____

Receipt No. _____

PLEASE CALL 410-313-2350 FOR AN APPOINTMENT TO SUBMIT YOUR APPLICATION

County Website: www.howardcountymd.gov

Revised: 07/12

T:\shared\PubScr\Applications\Rcs Var

PETITIONER Greenleaf Builders, LLC

PROPERTY ADDRESS 11859 Lime Kiln Road, Fulton, MD 20759

Affidavit made pursuant to the pertinent provisions of Title 22 of the Howard County Code as amended.

THE UNDERSIGNED DOES HEREBY DECLARE THAT NO OFFICER OR EMPLOYEE OF HOWARD COUNTY, WHETHER ELECTED OR APPOINTED, HAS RECEIVED PRIOR HERETO OR WILL RECEIVE SUBSEQUENT HERETO, ANY MONETARY OR MATERIAL CONSIDERATION, ANY SERVICE OR THING OF VALUE, DIRECTLY OR INDIRECTLY, UPON MORE FAVORABLE TERMS THAN THOSE GRANTED TO THE PUBLIC GENERALLY IN CONNECTION WITH THE SUBMISSION, PROCESSING, ISSUANCE, GRANT OR AWARD OF THE ATTACHED APPLICATION FOR A RESIDENTIAL DISTRICT VARIANCE AS REQUESTED FOR THE PROPERTY REFERENCED ABOVE.

I WE, DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THE AFOREGOING AFFIDAVIT ARE TRUE AND CORRECT TO THE BEST OF MY, OUR, KNOWLEDGE, INFORMATION AND BELIEF.

Chris L. Loney
Witness

Stephen F. Loney
Signature

9-15-2016
Date

Witness

Signature

Date

Witness

Signature

Date

IN THE MATTER OF
THE RESIDENTIAL VARIANCE
PETITION OF
GREENLEAF BUILDERS, LLC

BEFORE THE
HOWARD COUNTY
HEARING EXAMINER

* * * * *

SUPPLEMENT TO PETITION

Criteria for evaluation for variance:

- (1) All requests for variances are evaluated based upon the following criteria of Section 130.B.2.a.(1) through (5) of the Howard County Zoning Regulations:
- (2) That there are unique physical conditions, including irregularity, narrowness or shallowness of lot or shape, exceptional topography or other existing features peculiar to the particular lot; and that as a result of such unique physical conditions, practical difficulties or unnecessary hardships arise in complying strictly with the bulk provisions of these regulations.

This parcel is only 21,780 square feet in size. It is an extremely old residential property. Being approximately one-half acre in size is extremely unique in this RR-DEO zoning district. The minimum permitted lot size now is one acre. To apply setbacks designed for larger properties does constitute unnecessary hardship and practical difficulty in putting a reasonable size house on this parcel.

- (3) That the variance, if granted, will not alter the essential character of the neighborhood or district in which the lot is located; will not substantially impair the appropriate use or development of adjacent property; and will not be detrimental to the public welfare.

This specific area is a combination of commercial, religious structures, and non uniform lot sizes, so the variance would not alter the essential character of the neighborhood. Allowing the house to be 25 feet closer to the right-of-way would not impair the appropriate use or development of property as the properties across Lime Kiln Road are commercial uses. There is nothing detrimental to the welfare about this proposal.

- (4) That such practical difficulties or hardships have not been created by the owner provided, however, that where all other required findings are made, the purchase of a lot subject to the restrictions sought to be varied shall not itself constitute a self-created hardship.

The practical difficulty and unnecessary hardship is created by the size of the lot; size of the required septic system; and expansion of the right-of-way closer into the subject property by the development of this parcel having to use the ultimate right-of-way. The owner had nothing to do with these factors.

- (5) That within the intent and purpose of these regulations, the variance, if granted, is the minimum variance necessary to afford relief.

The requested variance is the minimum necessary to afford relief because this a residential property, and to put a reasonably sized house on this parcel requires the variance requested.



Thomas M. Meachum
Carney, Kelehan, Bresler, Bennett
& Scherr, LLP

10715 Charter Drive, Suite 200

Columbia, MD 21044

(410) 740-4600

Fax: (410) 730-7729

tmm@carneykelehan.com

Attorneys for Petitioner

BEFORE THE
HOWARD COUNTY
HEARING EXAMINER.

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Thursday, July 28, 2016 11:14 AM
To: 'Stephen Forney'
Cc: ernstenvser@comcast.net
Subject: RE: 11859 Lime Kiln Rd

Any alteration to the area must be done via a revised perc cert plan. That plan must be separate from the BAT plan with 3 copies, the appropriate perc cert notes, and a signature block for the Health officer. I will say that we approved the original perc cert showing a distinct area for the building envelope. I am not comfortable reducing that already limited sewage disposal area, especially considering that the new area is potentially eliminating the possibility of fitting in a second future repair system. We can review the booklet along with the plan, but we would prefer everything on the plan if possible. Also, the plan itself must be accurate. On the plan, I'm getting just under 30' from the well to the house. Maybe adding a 30' well arc could clearly show that there is room. Replacing the perc cert notes with the BAT notes will also add room to fit other things from the booklet onto the plan itself. There are things that need to be addressed in both the booklet and the plan at this point. Thanks
Jeff

From: Stephen Forney [mailto:hrbuilder@comcast.net]
Sent: Wednesday, July 27, 2016 3:35 PM
To: Williams, Jeffrey
Cc: ernstenvser@comcast.net
Subject: Re: 11859 Lime Kiln Rd

Mr. Williams, I did stop by your office before we turn in this drawling and asked about two different things, 1)could we adjust the left corner of the septic field so that the house could fit and 2)could we submit the booklet along with the drawling . In both instances I was told to submit it the way I intended to with the booklet and the adjusted corner of the septic field, it would be reviewed . It is actually 20' to that arc and the well is 30' from the front left corner of the house in the booklet on page 2 it is more clear, it shows that arc and a 20' radius, I question the designer about the tank going in the field, there is room where they can move it up a little bit and fit both tanks outside of the field, I will get Mr. Ernst to take care of the first item, the fifth item, and the seventh item, I can address the others. I just need to know from you is it OK to have that ark, the 20' radius off the back right corner and is it OK to keep the booklet, and just get that stamped and signed and also he can stamp and sign the drawing? Can you please let me know. I'm emailing the Memorandum to Mr. Ernst. Thank You, Stephen Forney. Cell 410-977-1328

Sent from my iPhone

On Jul 27, 2016, at 10:21 AM, Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:





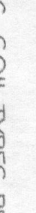







Hi Steve. Attached are my comments after reviewing the BAT plan for 11859 Lime Kiln. I do not have an email address for the designer. Please pass along the attached memo for them to see the comments.
Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261
jewilliams@howardcountymd.gov


- INITIAL SYSTEM
 - APPLICATION RATE: 1.2
 - EFFECTIVE AREA BEGINNING DEPTH: 3'
 - BOTTOM MAXIMUM DEPTH: 6.5'
- 1. DESIGN FLOW:
 - 4X150 GRD @ 11.150 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
 - DESIGN FLOW (600 GPD) / APPLICATION RATE (1.2) = 500 SF
- 3. SIDEWALL REDUCTION CREDIT:
 - TRENCH WIDTH (W) = 3'
 - TRENCH EFFECTIVE DEPTH (D) = 3.5'
 - (W)(D) / (W+1)(D) X 100 = 45.45 %
- 4. LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAIN FIELD SQUARE FOOTAGE (500) X SIDEWALL REDUCTION CREDIT (45.45%) / TRENCH WIDTH (3') = 76'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 76'
- 6. EXISTING GRADE:
 - TRENCH R-1: 449.3
 - TRENCH R-2: 448.6
 - TRENCH R-3: 446.6
 - TRENCH R-4: 445.6
- 7. INVERT:
 - TRENCH R-1: 446.3
 - TRENCH R-2: 445.6
 - TRENCH R-3: 444.1
 - TRENCH R-4: 444.1

- REPLACEMENT SYSTEM #1:
 - APPLICATION RATE: 1.2
 - EFFECTIVE AREA BEGINNING DEPTH: 3'
 - BOTTOM MAXIMUM DEPTH: 6.5'
- 1. DESIGN FLOW:
 - 4 BEDROOMS @ 150 GPD
 - 4X150 GRD @ 600 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
 - DESIGN FLOW (600 GPD) / APPLICATION RATE (1.2) = 500 SF
- 3. SIDEWALL REDUCTION CREDIT:
 - TRENCH WIDTH (W) = 3'
 - TRENCH EFFECTIVE DEPTH (D) = 3.5'
 - (W)(D) / (W+1)(D) X 100 = 45.45 %
- 4. LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAIN FIELD SQUARE FOOTAGE (500) X SIDEWALL REDUCTION CREDIT (45.45%) / TRENCH WIDTH (3') = 76'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 76'
- 6. EXISTING GRADE:
 - TRENCH R-1A: 447.6
 - TRENCH R-1B: 447.1
 - TRENCH R-1C: 446.6
 - TRENCH R-1D: 444.1
 - TRENCH R-1E: 444.1
 - TRENCH R-1F: 444.1
 - TRENCH R-1G: 444.1
 - TRENCH R-1H: 444.1
 - TRENCH R-1I: 444.1
 - TRENCH R-1J: 444.1
 - TRENCH R-1K: 444.1
 - TRENCH R-1L: 444.1
 - TRENCH R-1M: 444.1
 - TRENCH R-1N: 444.1
 - TRENCH R-1O: 444.1
 - TRENCH R-1P: 444.1
 - TRENCH R-1Q: 444.1
 - TRENCH R-1R: 444.1
 - TRENCH R-1S: 444.1
 - TRENCH R-1T: 444.1
 - TRENCH R-1U: 444.1
 - TRENCH R-1V: 444.1
 - TRENCH R-1W: 444.1
 - TRENCH R-1X: 444.1
 - TRENCH R-1Y: 444.1
 - TRENCH R-1Z: 444.1
- 7. INVERT:
 - TRENCH R-1A: 447.6
 - TRENCH R-1B: 447.1
 - TRENCH R-1C: 446.6
 - TRENCH R-1D: 444.1
 - TRENCH R-1E: 444.1
 - TRENCH R-1F: 444.1
 - TRENCH R-1G: 444.1
 - TRENCH R-1H: 444.1
 - TRENCH R-1I: 444.1
 - TRENCH R-1J: 444.1
 - TRENCH R-1K: 444.1
 - TRENCH R-1L: 444.1
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 - TRENCH R-1R: 444.1
 - TRENCH R-1S: 444.1
 - TRENCH R-1T: 444.1
 - TRENCH R-1U: 444.1
 - TRENCH R-1V: 444.1
 - TRENCH R-1W: 444.1
 - TRENCH R-1X: 444.1
 - TRENCH R-1Y: 444.1
 - TRENCH R-1Z: 444.1

1. TOPOGRAPHY SHOWN HEREON IS FIELD RUN WITHIN THE LIMITS SHOWN. OTHER TOPOGRAPHY IS FROM 2013 HOWARD COUNTY UPR.
2. ONSITE IMPROVEMENTS SHOWN HEREON ARE FROM FIELD RUN PHOTOGRAPHY BY SHAARHEAD & LAUE IN OCTOBER, 2015 AND 2016. OTHER IMPROVEMENTS SHOWN ARE FROM 2013 HOWARD COUNTY UPR.
3. EXISTING WELL AND SEPTIC SYSTEM LOCATIONS SHOWN HEREON ARE FROM AVAILABLE HOWARD COUNTY HEALTH DEPARTMENT RECORDS, AND FIELD LOCATION.

4.  DESIGNATES PROPOSED PRIVATE SEWAGE EASEMENT FOR INDIVIDUAL SEWAGE DISPOSAL.
5.  PROPOSED WELL
6.  EXISTING WELL
7.  SOIL TYPE BOUNDARY
8.  WOODS/LINETREES
9.  SOIL TYPES PER N.R.C.S. WEB SOIL SURVEY;
Gola - Golaing lam, 0 to 3 percent slopes
Gola - Golaing lam, 3 to 5 percent slopes
Gola - Golaing lam, 5 to 8 percent slopes
Gola - Golaing lam, 8 to 10 percent slopes
10.  BOUNDARY LINES OF SUBJECT PROPERTY ARE FROM A FIELD RUN BOUNDARY LINES SHOWN HEREON ARE FROM HOWARD COUNTY TAX MAP INFORMATION AND FROM DEEDS OF RECORD.
11.  SOIL TYPES SHOWN HEREON ARE FROM N.R.C.S. WEB SOIL SURVEY;
DESIGNATES EXISTING PERC TEST LOCATION -- PAS5.
12.  DESIGNATES EXISTING PERC TEST LOCATION -- FAIL.
13.  PRIVATE SEWAGE EASEMENTS FOR THIS PROPERTY MAY BE ADJUSTED BASED ON PERC TEST RESULTS AND POSSIBILITY OF RELOCATING LINES OR ADJOINING PROPERTIES.
14.  DESIGNATES LIMITS OF FIELD RUN TOPOGRAPHY
15.  ANY CHANGE TO A PRIVATE SEWAGE PAYMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.

13. ALL KNOWN EXISTING WELLS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY AND WELLS WITHIN 200 FEET OF THE PROPERTY SHOULD HAVE BEEN SHOWN FOR FIELD LOCATION WHEN POSSIBLE AND FTR AVAILABLE RECORDS WHEN NOT POSSIBLE.

14.  THIS AREA DESIGNATES A PRIVATE SEWAGE TREATMENT SYSTEM AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (SECTION 26.04.03). PUBLIC SEWAGE IS AVAILABLE. THESE DESIGNATIONS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICERS SHALL HAVE THE AUTHORITY TO GRANT PERMISSION FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE TREATMENT SYSTEM OF A MODIFIED SEWER EXISTENCE SHALL NOT BE NECESSARY.



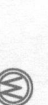

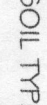

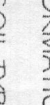

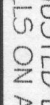
15. SHOULD A WEBC DISCOVERED DURING DEMOLITION OF THE FORMER HEALTH DEPARTMENT NOTIFIED SUCH WILL SHALL BE STATED BY A LICENSED WELL DRILLER.
16. PRECIPITATION TEST RESULTS AT 11855 LIME KILN ROAD LAW BE CERTIFIED FROM A STATE AGENCY NOT BE OBTAINED ON THE PROPERTY UNTIL SUCH TIME THAT THE EXISTING PIT WILL SERVING 8020 HUNTERDOOR LANE IS ABANDONED AND SEALED. THE REQUIREMENT 11855 LIME KILN ROAD IN THE EVENT THAT REPLACEMENT OF THE EXISTING SEPTIC SYSTEM TRENCHES IS NECESSARY DUE TO FAILURE OF THE EXISTING TRENCH.
17. MARSH AND DEPARTMENT OF THE ENVIRONMENT HAS APPROVED A VARIANCE TO ALLOW SWAGE DISPOSAL AREAS ISDAP AT 11855 LIME KILN ROAD AND PARCEL 163 TO BE REFORRESTED OF THE PROPOSED REPLACEMENT WILL TO SERVE 11855 LIME KILN ROAD. HEALTH DEPARTMENT HAS RECOMMENDATIONS FOR HOWARD COUNTY REVEAL THAT THE AREAS INTERFERED.
- A. THE WELL INSTALLED AS THE REPLACEMENT PORTAL WATER SOURCE TO SERVE 11855 LIME KILN ROAD SHALL HAVE STEEP SLOPING EXTERIOR TO MINIMUM DEPTH OF 50 FEET, OR TEN FEET B. ALL DRAINPIEDS INSTALLED AT 11855 LIME KILN ROAD, AND ON PARCEL 163 SHALL BE AT LEAST 200 FEET DISTANCE FROM THE REPLACEMENT WELL INSTALLED AT 11855 LIME KILN ROAD, AND C. 11855 LIME KILN ROAD AND FOR PARCEL 163, RESPECTIVELY AND
2. ALL SEPTIC SYSTEM DRAINPIEDS INSTALLED AT 11855 LIME KILN ROAD AND FOR PARCEL 163 MUST BE DESIGNED AND EQUIVALENT TO PRESCRIBED DISTRIBUTION SYSTEMS OR
18. THE SUBJECT PROPERTY HAS A LIMITATION OF FOUR (4) BEDROOMS DEMONSTRATES THAT THE SWAGE DISPOSAL AREA WILL ACCOMMODATE THE WASTEWATER DISCHARGE FOR A RESIDENCE HAVING MORE THAN FOUR (4) BEDROOMS.

FOR PRIVATE WATER AND SEWERAGE SYSTEMS

REVISED PERC CERTIFICATION PLAT
11859 LIME KILN ROAD

SCALE: 1" = 30' DATE: 12/20/2016
REVISED 1/11/2017
ZONFDD RR-DFO

PC556571

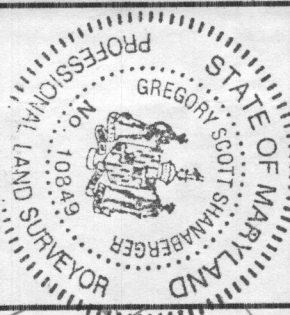
- NOTES:
1. TOPOGRAPHY SHOWN HEREON IS FROM 2013 HOWARD COUNTY LIDAR.
 2. IMPROVEMENTS SHOWN HEREON ARE FROM 2013 HOWARD COUNTY LIDAR.
 3. EXISTING WELL AND SEPTIC SYSTEM LOCATIONS SHOWN HEREON ARE FROM AVAILABLE HOWARD COUNTY HEALTH DEPARTMENT RECORDS, AND FIELD LOCATION.
 4.  DESIGNATES PROPOSED PRIVATE SEWAGE SYSTEM FOR INDIVIDUAL SEWAGE DISPOSAL.
 5.  PROPOSED WELL AREA
 6.  EXISTING WELL
 7.  SOIL TYPE BOUNDARY
 8.  WOODS/LINE TREES
 9.  SOIL TYPES PER N.R.C.S. WEB SOIL SURVEY:
GqB--Glentid loam, 0 to 3 percent slopes
Gmb--Glentid silt loam, 3 to 6 percent slopes
Gmb--Glentid silt loam, 3 to 6 percent slopes
 10.  BOUNDARY LINES SHOWN HEREON ARE FROM N.R.C.S. WEB SOIL SURVEY.
 11.  DESIGNATES PROPOSED PERC TEST LOCATION.
 12.  PRIVATE SEWAGE SYSTEMS FOR THESE 2 PROPERTIES MAY BE ADJUSTED BASED ON PERC TEST RESULTS AND POSSIBILITY OF RELOCATING WELLS ON ADJOINING PROPERTIES.



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home@shanlinc.com

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON REFLECTS WORK DONE BY ME OR UNDER MY DIRECT SUPERVISION USING AVAILABLE PUBLIC AND PRIVATE INFORMATION AND IS CORRECT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF.

G. SCOTT SHANBERGER
PROFESSIONAL LAND SURVEYOR #10849
DATE: 8/14/15
LICENSE EXPIRATION DATE: 4/2/2016



PLAT TO ACCOMPANY PERC TEST APPLICATION
11855 and 11859
LIME KILN ROAD
TITLE DEED: 159021152
TAX MAP 46, GRID 1, PARCELS 182 & 183
5TH ELECTION DISTRICT, HOWARD COUNTY, MD.
ZONED RR-DEO
SCALE: 1" = 30'
DATE: 7/8/2015
REVISED 8/4/2015