



Howard County
Health Department

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

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

RECEIPT DATE: 4/1/2020

ONSITE SEWAGE DISPOSAL SYSTEM

P 567374

APPROVAL DATE: 6/12/2020 (ST)

PERMIT: BRF REPAIR

A _____

PROPERTY ADDRESS: 1124 Taylor Park Road

SUBDIVISION: River Park Estates

LOT: 20

TAX ID: 03-288404

CONTRACTOR: Freedom Septic

EMAIL: _____

CONTRACTOR ADDRESS: 2809 Liberty Rd, Sykesville, MD 21784

PHONE: _____

CONTRACTOR CERTIFIED FOR BAT INSTALLATION:

☒ MDE

☒ MANUFACTURER: Shayer Bo's.

PROPERTY OWNER: Robert Patterson

EMAIL: _____

OWNER ADDRESS: 1124 Taylor Park Road

PHONE: _____

BAT UNIT MODEL: HOOT BRN 600

PUMP SIZE: _____

PUMP TANK CAPACITY: 1/2 HP NFOH

OPERATION & MAINTENANCE AGREEMENT

DATE SIGNED: _____

DATE RECORDED: 2-24-2020

DISTRIBUTION SYSTEM: ☐ GRAVITY

☒ PRESSURE DOSED

BEDROOMS: 3

APPLICATION RATE: 1.2

TRENCHES:

LINEAR FEET REQUIRED: 76'

INLET DEPTH: 3' upper, 2' lower

TRENCH WIDTH: 2'

MAXIMUM BOTTOM DEPTH: 10'

MINIMUM SPACE

BETWEEN TRENCHES: 10'

EFFECTIVE AREA BEGINNING DEPTH: 6'

LOCATION: TO BE STAKED BY SANITARIAN DURING PRE-CONSTRUCTION INSPECTION.

NOTES:

Install 2 x 40' LPD Trenches. Use HDPE forcemain. Watertight or vacuum test for BAT tank. Trench inlet must be at same relative elevation.

ISSUED BY: Joseph Cabahug

ISSUE DATE: 04/01/2020

EXPIRATION DATE: 04/01/2021

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADE FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

☒ ELECTRICAL PERMIT ISSUED

E 20001913

NOTE: THE HCHD DOES NOT WARRANT ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.

NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.

NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE

SEE ATTACHED
AS BUILT

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 2' INLET 3 1/2' BOTTOM 10'
NUMBER OF TRENCHES 2
TOTAL LENGTH 80
ABSORPTION AREA 240 sq ft + side area
DISTRIBUTION BOX LEVEL -
DISTRIBUTION BOX BAFFLE -
DISTRIBUTION BOX PORT -

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL -
MANUFACTURER BACK RIVER
CAPACITY 3000 GAL
SEAM LOC TOP
TANK LID DEPTH 13'
BAFFLES YES
BAFFLE FILTER YES
MANHOLE LOC FRONT/BACK
6" PORT LOC BAT
WATERTIGHT TEST YES
SLOTTED BAT
DATE ON LID 04/10/2020

PUMP/SEPTIC TANK LEVEL

MANUFACTURER -
CAPACITY - GAL
SEAM LOC -
TANK LID DEPTH -
BAFFLES -
BAFFLE FILTER -
MANHOLE LOC -
6" PORT LOC -
WATERTIGHT TEST -
SLOTTED -
DATE ON LID -

PRE-CONSTRUCTION:

04/08/2020 CONFIRMED LPD SPECS AND CONTOUR OF 2x 40' TRENCHES. WENT
OVER TANK PLACEMENT AND FORCE MAIN MATERIAL.

INSTALLATION: 04/23/2020 SEWER LINE TIED INTO EXISTING LINE. TANK

SET ~100' FROM EX WELL. (R) 04/28/2020 FM laid from tank, around house and
up to septic field. (S) 04/29/2020 Two trenches completed and laterals installed
according. Connected to FM, although not from an equal dividing point as in plan. (ST)
05/01/2020 ~~THE~~ TANK WATER TIGHT TEST HOLD 72H HRS. (R) 06/03/2020 BAT did not
start up. No air blowing in HOOT. Will call for reinspection. Pump and alarm observed
to function (5' of head at turnups.) Pump and HOOT system (w/ alarm) on separate
circuit breakers. Reinspect HOOT. (S) 06/12/2020 Recirculation observed, air blower functions. (R)

FINAL INSPECTOR

Susan Thomas

DATE OF APPROVAL

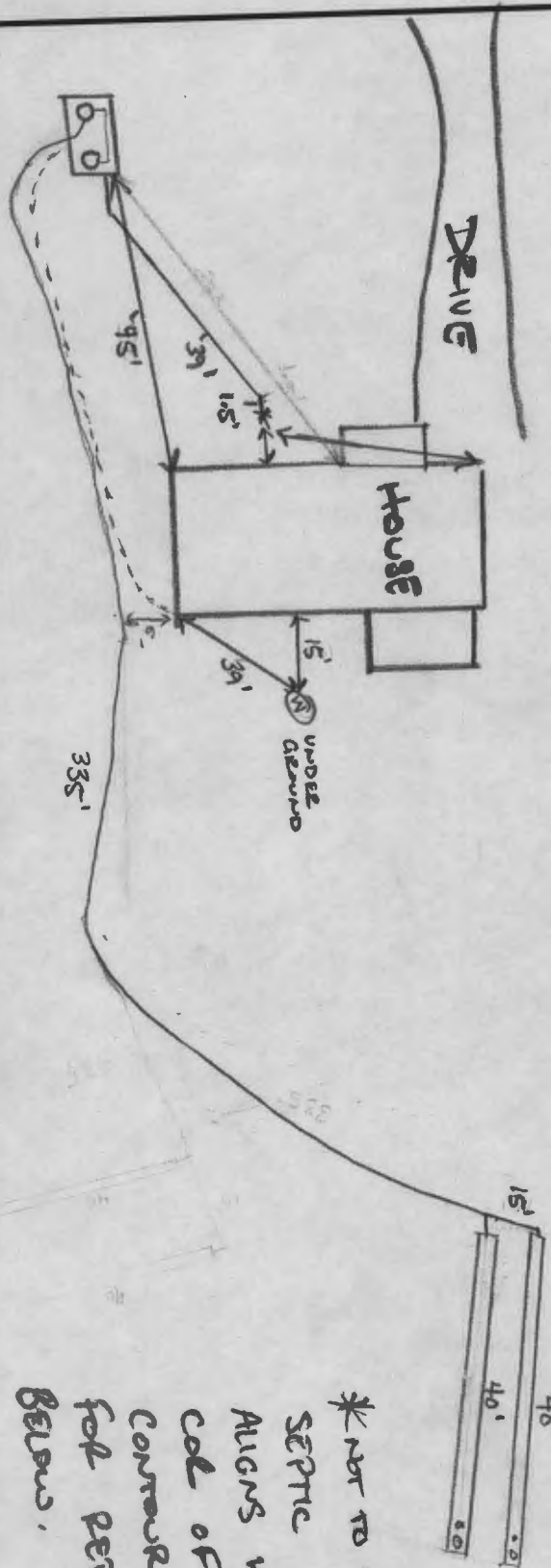
6/12/2020

NOT TO SCALE

TAYLOR PARK ROAD

12.16.15 102 30416

electric



*NOT TO SCALE
SEPTIC FIELD
ALIGNS WITH DRIVE
COL OF HOUSE ALONG
CONTOUR WITH ROOM
FOR PER SYSTEM
BELOW.





CANAAN VALLEY INSTITUTE

February 12, 2020

Robert Patterson
7394 Minter Lane
Clarksville, MD 21029

RE: FY 2020 Howard County Bay Restoration Fund OSDS Upgrade Program

Dear Mr. Patterson:

Thank you for your application to participate in the Howard County Bay Restoration Fund OSDS Upgrade Program. The Howard County Health Department has verified that your existing septic system at **1124 Taylor Park Road, Sykesville, MD** is failing and in need of repair. Based on your 2018 Income tax return form, you are eligible to receive funding to cover **100%** of the cost to upgrade your system to one of the MDE approved BAT units listed below. The approved price includes the cost of the unit, installation of the unit, and 5 years of operation and maintenance. The price does not include the cost of permits.

<u>System</u>	<u>Vendor</u>	<u>Contact</u>	<u>Phone</u>
Norweco Singulair TNT	Back River Precast	Matt Geckle	410-833-3394
Biomicrobics	Dwayne C. Jones	Dwayne C. Jones	410-692-6900
HOOT	Mayer Bros, Inc.	Nancy Mayer	410-796-1434
Hydroaction	Sample Excavating	Mike Sample	443-807-8639
Orenco	Atlantic Solutions	Bob Johnson	877-814-8426
Septitech	Dwayne C. Jones	Dwayne C. Jones	410-692-6900
Aquaklear	BayStar Precast	Dave Care	410-977-3453

In order to receive your OSDS upgrade, you **MUST follow these steps:**

1. **Sign this letter** on the bottom of page 2 and **return it** in the envelope provided within **2 weeks of the date of this letter.**
2. File a septic repair permit application with the Howard County Health Department **within 2 weeks of the date of this letter.** The permit application fee is **\$396.00** (\$165 for tank approval only).
3. Obtain the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration Funds from the Howard County Health Department, have it signed by a Howard County Health Department Bureau Director or Designee. Then take it to the Circuit Court and have it recorded in Land Records **within 2 weeks of the date of this letter.**
4. Prepare your property and schedule installation of the system. The system must be installed **within 6 weeks of the date the Agreement and Easement is recorded.**

If assistance is needed in completing any of the steps listed above, you may contact me at 304-940-3443 or kristin.mielcarek@canaanvi.org.

10624 Appalachian Highway | Davis, WV 26260
www.canaanvi.org

REC'D BY ENV HEALTH
'20 APR 28 PM12:45

The system vendor may provide a contractor to install your BAT unit. CVI will provide payment directly to the vendor. The vendor may also require proof of insurance from your contractor.

If your system is not installed within the 8 week timeframe listed in the steps on page 1, the funds may be released and used elsewhere. If you cannot complete installation in within this timeframe, please contact me to request an extension. Please note that failure to request an extension may result in termination of your grant and your system must be installed no later than June 27, 2020 in order to retain your funding.

For more information on septic repair permitting, contact:

Jeff Williams
Program Supervisor, Well and Septic
410-313-1771

Please sign and return this original letter and keep a copy for your records. If you have any questions, please contact me at 304-940-3443 or by email at kristin.mielcarek@canaanvi.org.

Sincerely,

Kristin Mielcarek, Executive Director

I have read and agree to the conditions of this Agreement Letter.

Accepted by: Robert Patterson, Property Owner

Signature

Date

REC'D BY ENV HEALTH
'20 APR 28 PM 12:45



HOWARD COUNTY HEALTH DEPARTMENT

67257

DATE 12/27/14

Received From

Logan Scott Cleaners Inc.

PHONE # 410 995 5670

☐ CASH
☒ CHECK
NO. 4786

For Sente Hoppie
1124 Tynler Manor Rd.

One Sixty Nine ——— 00/100 Dollars

\$ 165.00

Received By V. Drake

1124

TAYLOR PARK ROAD

* NOT TO SCALE
SOURCED FROM HCHD
GIS INTERACTIVE

NOT TO SCALE



- 1 SITE PLAN
- 2 OSDS BAT LPD
SCHEMATIC/TRENCH DET.
- 3 INSTALL PROFILE (CUT)
- 4 LPD DRAINFIELD SPECS
- 5 SITE PLAN
- 6-8 OSDS REPAIR LPD
DESIGN SPECS.
- 9 BAT. HOOT GOO BNR
W 760 g PUMP SPEC.
(FLOAT TREE)

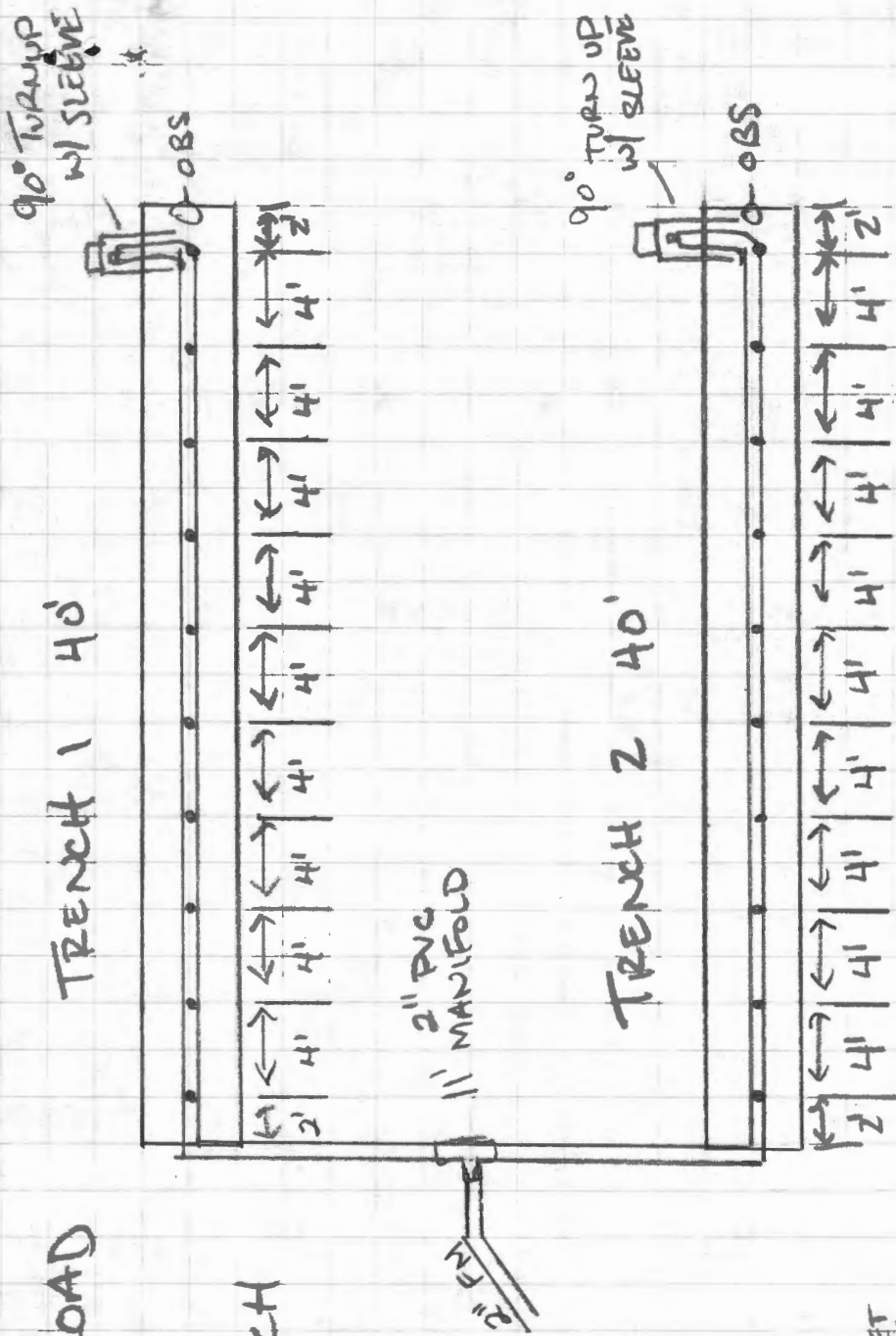
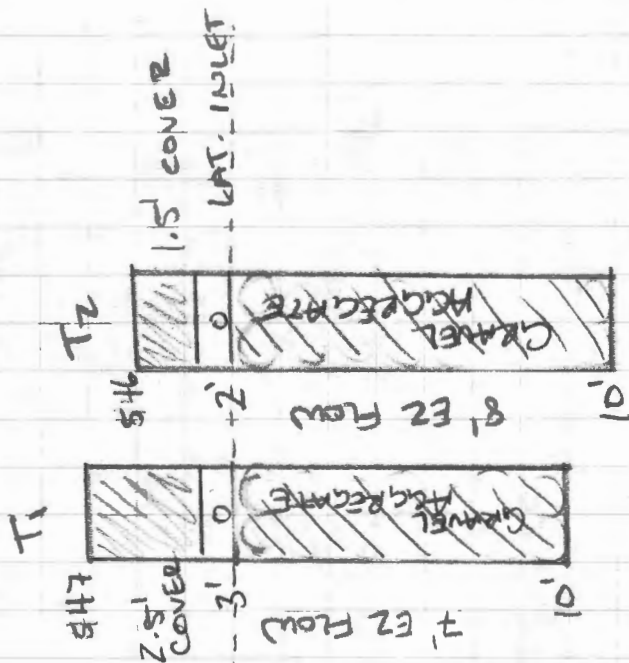
1124 TAYLOR PARK ROAD

OSDS BAT-LPD LATERAL

SCHEMATIC AND TRENCH

DETAIL

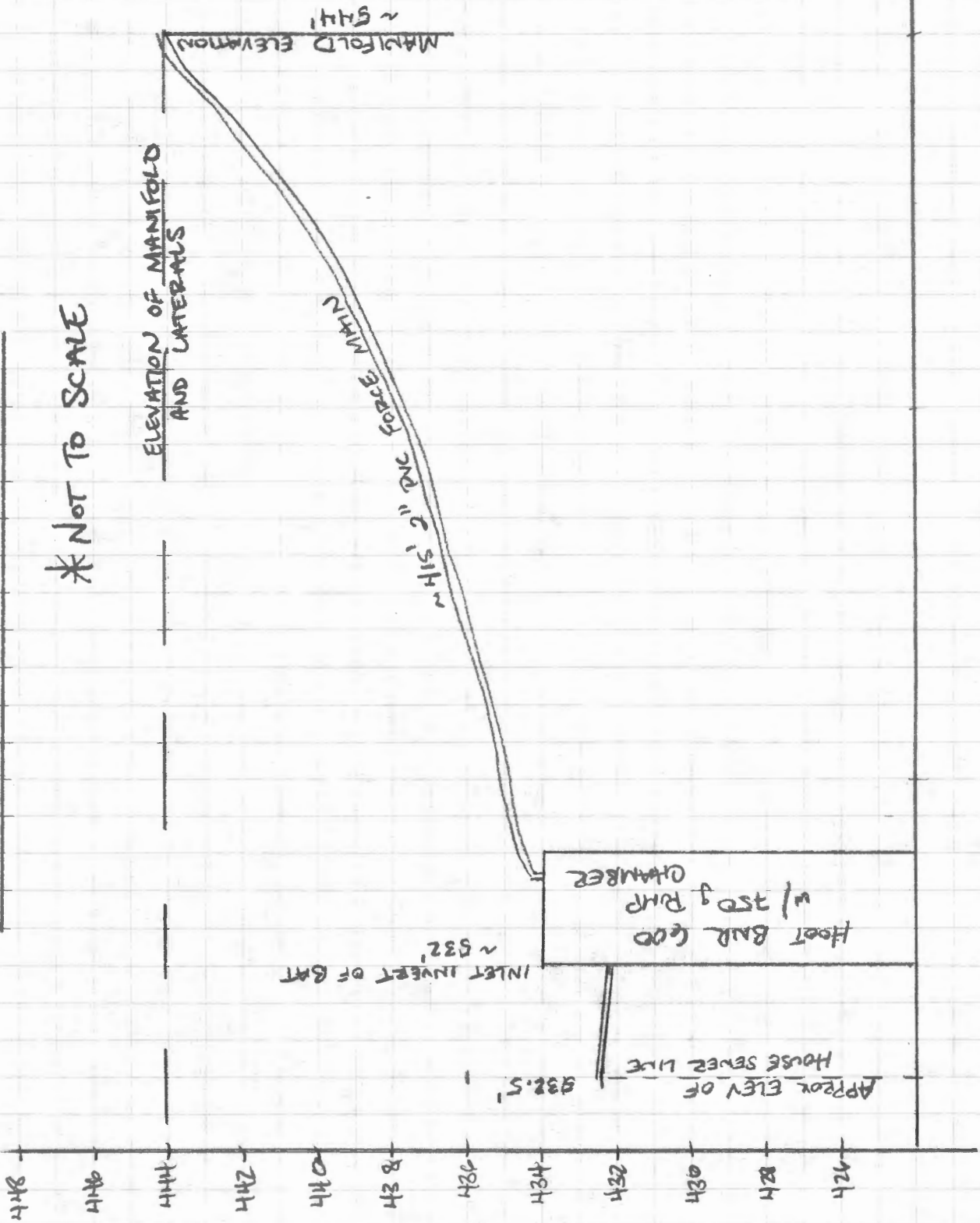
TRENCH PROFILE



1124 TAYLOR PARK ROAD

OSDS BAT INSTALL PROFILE

*NOT TO SCALE



1124 TAYLOR PARK ROAD

OSDS REPAIR LPD - DOWN GRADE WELL

DESIGN:

BED ROOM = 3

REQ. FLOW = 450 gpd

SOIL APP. RATE = 1.2 gpm/d

TRENCH WIDTH = 2' (DEEP)

LINEAR FT REQ. = 188 FT

EFFECTIVE AREA START = 6.5'

SIDE WALL RED. FACTOR = .4

* TRENCH = 2 x 40'

$$\frac{\# \text{BR} \times 150 \text{ gpd}}{\text{PERC APP RATE}} = \frac{\text{SQ FT}}{\text{REQ}} \div \frac{\text{TRENCH}}{\text{WIDTH}} = \text{LINEAR FT REQUIRED}$$

$$\frac{(3 \text{ BR}) \times 150 \text{ gpd}}{1.2} = \frac{375 \text{ SQ FT}}{2' \text{ FT}} = \boxed{188 \text{ FT}} \times .40 (10' \text{ BOTTOM}) = 76 \text{ FT}$$

$$.44 (9.5' \text{ BOTTOM}) = 83 \text{ FT}$$

$$\text{REDUCED LINEAR FEET} = \boxed{76 \text{ FT}} \quad * 2 \times 40' \text{ TR. TO USE EZ FLOW}$$

BAT UNIT + PUMP TANK:

Hoot BNR 600 w/ 760 g PUMP TANK

GROUND ELEV. OVER PUMP TANK : ~ 534'

BOTTOM ELEV. UNDER PUMP TANK : ~ 526'

PUMP OFF ELEV : - 526.5'

LATERALS:

(T₁) HIGHEST LAT. GROUND ELEV. = 547'

LAT. ELEV. = 544'

(T₂) LOWEST LAT. GROUND ELEV. = 546'

LAT ELEV. = 544'

DIAMETER OF LAT = 1.5" IN

ORIFICE DIAMETER = 5/16" IN

ORIFICES = 20

1124 TAYLOR PARK ROAD

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DIAMETER OF LAT = 1.5" IN

ORIFICE DIAMETER = 5/16" IN

ORIFICES = 20

MANIFOLD

LENGTH = 11'
DIAMETER =

FORCE MAIN

LENGTH ~ 415'
DIAMETER = 2"

FRICTION

~ 35 gpm Flow

FITTING	QTY	FRICTION LOSS	TOTAL
2" PVC 90° ELBOW	1	7'	7'
2" PVC 45° ELBOW	5	4'	20'
2" PVC COUPLING	~20	2'	40'
2" PVC MANIFOLD T	1	2'	2'
2" Gate Valve	1	1.3'	69 EQUIVALENT PIPE LENGTH
2" PVC MANIFOLD		11'	
2" PVC FORCE MAIN (400')		4.25'	
			+ 11'
			~ 415'
			495' TOT. EQ. PIPE LENGTH

$$\left(\frac{2.05}{100} \right) \times 495' = 10.14 \text{ FT FRICTION HEAD}$$

EST. LAT FRICT + 1.5

$$4.25 (2.05) = 8.7$$

18.7'

HEAD

ELEV LAT. = 544

ELEV PUMP = ~ 526.5'

STATIC HEAD = **17.5'**

MINIMUM DISTAL HEAD = **2'**

TOT. FRICTION = 18.7'

STATIC HEAD = 17.5'

MIN DIST. HEAD = 2'

TOTAL DYNAMIC HEAD = **28.2'** FT

Flow:

$$Q = 11.82 \times (d)^2 \cdot \sqrt{h}$$

d = DIAMETER OF HOLE

h = DISTAL HEAD

$$\frac{5}{16} = .3125$$

$$\frac{2}{2} =$$

$$Q = 11.82 \cdot (.3125)^2 \cdot \sqrt{2} = 1.63 \cdot (20 \text{ ORIFICE}) = \boxed{32.65 \text{ gpm}}$$

Dose:

$$\begin{aligned} \text{LENGTH MANIFOLD + FM} &= 426' \times \left(\frac{17.4}{100}\right) = 74.12 \\ \text{LENGTH LATERALS} &= 38' \times 2 = 76' \times \left(\frac{7.8}{100}\right) = 5.93 \end{aligned}$$

$$\text{DOSE} = (5 \times \text{LAT VOL}) + (1 \times \text{MANIFOLD}) + (1 \times \text{FM})$$

$$= 5(5.93) + (74.12) = \boxed{103.77, \text{ MIN DOSE}}$$

($\times \frac{1}{6}$ DESIGN FLOW = 75g)

Float Tree

HOOT BNR 600 w/ 760 PUMP

$$\text{VOL} = L \times H \times W$$
$$29.4 \text{ ft}^3 = 4.5' \times 1.25' \times W$$

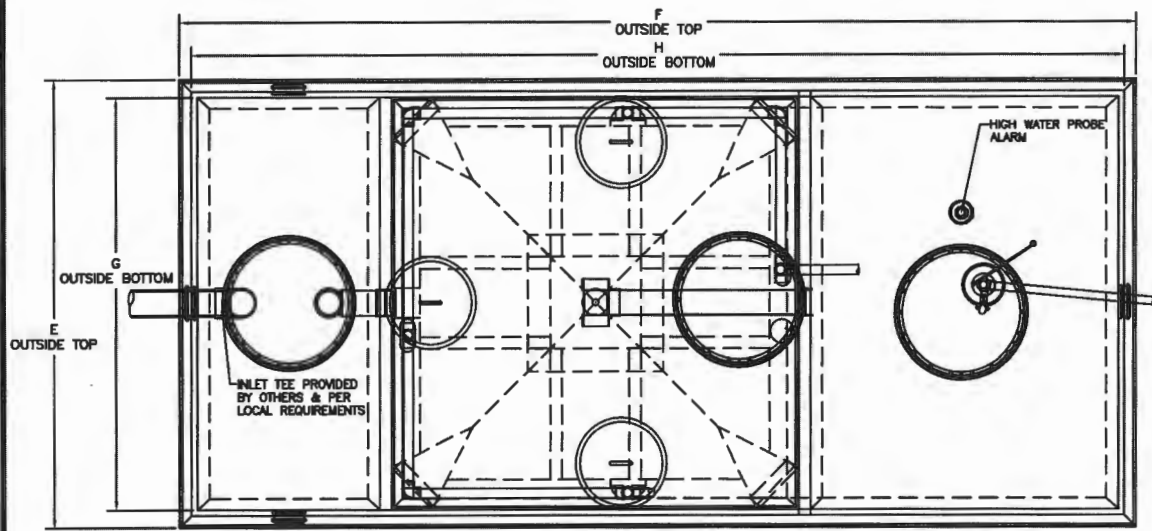
$$W = 5.22 \text{ ft}$$

$$54'' \times \left(\frac{1}{12}\right) \times 62.6'' = 3380 \text{ in}^3 = 14.6 \text{ g/in}$$

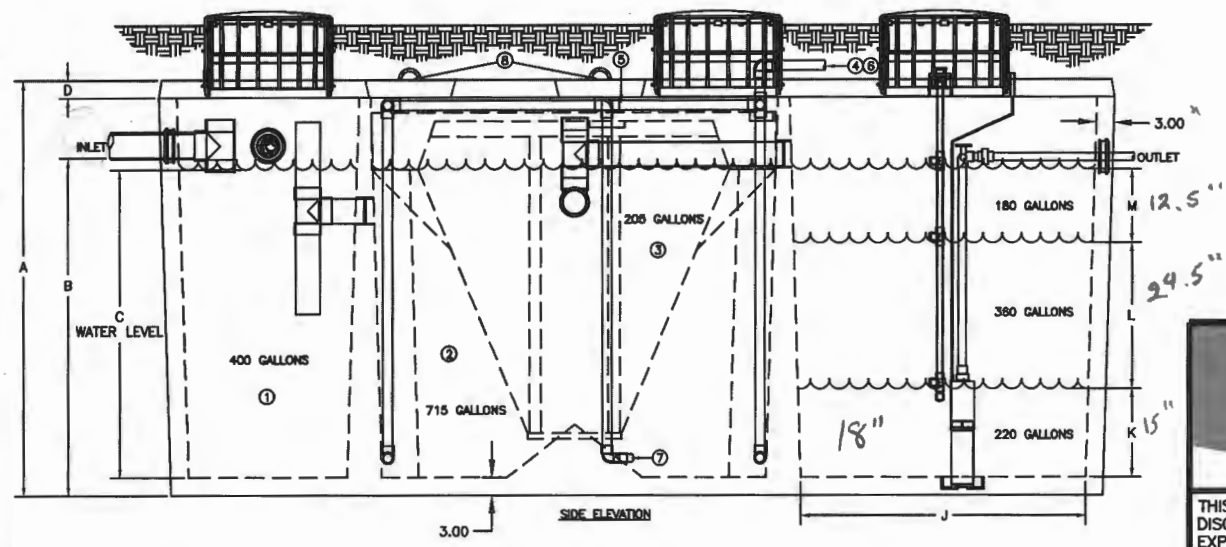
$$\text{MIN DOSE} \frac{103.77 \text{ g}}{14.6 \text{ gpi}} = \boxed{7.1 \text{ IN/DOSE}}$$

1124 TAYLOR PARK RD BAT DIMENSION SPEC Pg. 05 of 17

CRITICAL DIMENSIONS	
A	71.00'
B	58.00'
C	52.00'
D	4'
E	76.50'
F	162.00'
G	67.50'
H	153.00'
J	48.50'
K	15.00'
L	24.50'
M	12.50'



PLAN VIEW

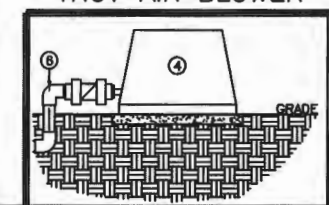


SIDE ELEVATION

THE H-SERIES HOOT AEROBIC TREATMENT SYSTEM

- 1) PRETREATMENT TANK- WHERE ANAEROBIC DIGESTION OCCURS AND STORAGE FOR NON-BIODEGRADABLE MATERIALS.
- 2) AERATION CHAMBER- WHERE AIR IS INTRODUCED INTO SEWAGE FOR DIGESTION.
- 3) CLARIFIER- A STILL CHAMBER WHERE SOLIDS SETTLE OUT AND THE CLEAR EFFLUENT RISES.
- 4) TROY AIR LINEAR AIR BLOWER- LONG LIFE, EFFICIENT LINEAR BLOWER WHICH COMPRESSED ATMOSPHERIC AIR AND UNDER PRESSURE DELIVERS IT TO THE TANK. MAY BE REMOTELY MOUNTED UP TO 50' FROM SYSTEM. MUST MAINTAIN 1/8" SLOPE TOWARDS TANK FOR DRAINAGE.
- 5) AIR MANIFOLD- DELIVERS THE AIR FROM THE LINE TO THE STONES FOR DIFFUSION INTO THE SEWAGE.
- 6) AERATION LINE- DELIVERS THE AIR FROM THE PUMP TO THE MANIFOLD. CHECK VALVE INCLUDED.
- 7) AERATION STONE- AIR IS FINELY DIFFUSED FROM THE STONE INTO THE AERATION CHAMBER.
- 8) 15" COVERS- PROVIDE ASSEMBLY PORT ACCESS INSIDE OF THE SYSTEM. (NOT REQUIRED FOR REGULAR SERVICE)

TROY AIR BLOWER





HOOT SYSTEMS, LLC

www.hootsystems.com

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DESCRIPTION: 600 GPD PUMP DISCHARGE SYSTEM HOOT SYSTEMS H-600A w/ 760 GAL. P.T.				PART #
DATE: 03-17-2014	DRAWN BY: AY	CHECK BY: RS	SCALE: N.T.S.	H-600A_760

DESIGN FLOW (in gallons/day)?

Elevation of the PUMP OFF SWITCH, in feet?

Elevation of the upper LATERAL, in feet?

DELIVERY PIPE distance, from pump to manifold, in feet?

DELIVERY PIPE diameter, in inches (if not 2"--use 2" min)?

Design DISTAL PRESSURE, in feet (if not 2.5)? (hd)

IS MANIFOLD CENTER-FED & SYMMETRICAL (yes or no)?

How many orifices in the MANIFOLD?

MANIFOLD ORIFICE diameter, in inches (if not 5/16")

MANIFOLD DIAMETER (if not 2"--use 2" min)?

TOTAL LENGTH OF MANIFOLD

Does MANIFOLD drain to FIELD after dose (yes or no)?

How many LATERALS?

Pumping chamber weep hole size (usually .25")

PROGRAM WILL CALCULATE UP TO 26 LATERALS AND UP TO 50 ORIFICES PER LATERAL

TRENCH LENGTH

Your HIGHEST elevation lateral MUST be LATERAL 1:

(first orifice from lateral 1/2 of orifice spacing)

Length of each LATERAL, in feet?

Diameter of each LATERAL, in inches (1.5" min)?

Elevation of each LATERAL, in feet?

Number of ORIFICES per lateral

Distance from Manifold to closest Orifice, in feet

ORIFICE SPACING, in feet (2-6 ft ok 3-6 preferred)

Diameter of ORIFICES, in inches? (D)

Square feet of leachfield per laterals (can ignore)

Maximum number of orifices in any one lateral

Minimum lateral diameter

450
534
548
420
2.067 (Inside Diameter)
2
no
0
0
2.067
10
no
2
0.25

GO TO MANIFOLD DESIGN

(Ignore)

0.3125 (Ignore)

2.067 (Inside Diameter)

(Are you pumping downhill)

USE 0 IF FORCE MAIN DOES NOT DRAIN Back to Pump Chamber

40 40

Lateral 1: Lateral 2:

38.00	38.00	#DIV/0!	#DIV/0!		
1.5	1.5				
541	541				
10	10				
2.00	2.00	#DIV/0!	#DIV/0!		
4.00	4.00	#DIV/0!	#DIV/0!		
0.31	0.31				
120	120	0	0		

#DIV/0!

FRICTION CALCULATIONS (using Hazen Williams friction $f = Ld((3.55Qm/Ch(Dd^{2.63})))^{1.85}$)

PRESSURE CALCULATIONS (using orifice discharge equation $Q = 11.79 D^{.5} hd^{.5}$)

Lateral 1: Lateral 2:
16.02 16.02

MANIFOLD ORIFICE DISCHARGE 0.00

TOTAL SYSTEM DISCHARGE (first approximation) 32.05

TOTAL DISCHARGE PER LATERAL 16.14 16.14

DISCHARGE PER SQUARE FOOT OF LEACHFIELD 0.13446193 0.134461926

ORIFICE MAXIMUM DISCHARGE BY LATERAL 1.63 1.63

ORIFICE MINIMUM DISCHARGE BY LATERAL 1.60 1.60

ORIFICE % DIFFERENCE DISCHARGE within LATERAL 1.9% 1.9% 0.0% 0.0% 0.0% 0.0%

MAXIMUM DISCHARGE LATERAL 16.14

MINIMUM DISCHARGE LATERAL 16.14

MAXIMUM DISCHARGE PER SQUARE FOOT 0.13

MINIMUM DISCHARGE PER SQUARE FOOT 0.13

% DIFFERENCE DISCHARGE for SYSTEM by orifice 1.9% as percent of maximum orifice in system

% DIFFERENCE DISCHARGE for SYSTEM by laterals 0.0% as percent of maximum lateral in system

% DIFFERENCE DISCHARGE for SYSTEM by square feet 0.0% as percent of maximum square foot in system

WEEP HOLE DISCHARGE (usually a 1/4" weep hole) 2.79 weep hole= 0.25 inch

VOID VOLUME IN DELIVERY PIPE 73.21

VOID VOLUME IN MANIFOLD 1.92 Volume from Manifold Design

VOID VOLUME IN EACH LATERAL 3.49 3.49 #DIV/0! #DIV/0! 0.00 0.00

TOTAL LATERAL VOID VOLUME #DIV/0!

MINIMUM DOSE VOLUME (based on void volume) #DIV/0! to #DIV/0! MIN

ACTUAL MINIMUM IS BASED ON DAILY DESIGN FLOW

(weep hole, usually 1/4", not counted for dose, effluent is repumped during process and not counted for friction, except as fitting headloss)

TOTAL HEAD LOSS IN EACH LATERAL 0.42 0.42

MAXIMUM TOTAL LATERAL HEADLOSS IN SYSTEM 0.42

MANIFOLD HEADLOSS (center-fed unless manifold design) 0.20

DELIVERY PIPE HEADLOSS 7.45 w/ delivery 2.067 inch diameter

FITTING LOSS (headloss *.15) 0.30 add extra head if fittings are more than absolute minimum

DISTAL PRESSURE HEAD 2.00

STATIC HEAD (OFF-SWITCH TO HIGH LATERAL/MANIFOLD) 7.00

HEADLOSS PUMP TO WEEPHOLE (assume 3' run) 0.06

PUMP MUST BE ABLE TO PASS SOLIDS AT 35.06 G.P.M. 17.43 FEET OF HEAD

or 35.06 G.P.M. 19.14 FEET OF HEAD

After OTIS (network losses = 1.3*distal head)



WE Series

Model 3885

SUBMERSIBLE EFFLUENT PUMPS



1124 Taylor Park Road

OSDS BAT_LPD Drainfield Specifications

Table A - Drainfield Quick Shot											
Trench	5	Trench Length (ft)	Inlet Depth (ft)	Depth of Stone (ft)	Lateral Length (ft)	Number of Orifices	Orifice Diameter (in)	Orifice Spacing (ft)	Orifice Flow Rate (gpm)	Trench Flow Rate (gpm)	Distal Head (ft)
1	447	40	3	7	38	10	5/16	4	1.63	16.3	2
2	446	40	2	8	38	10	5/16	4	1.63	16.3	2
Total						28				32.6	



Wastewater

FEATURES

Impeller: Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.

Mechanical Seal: Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

Shaft: Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

SPECIFICATIONS

Pump

- Solids handling capabilities: $\frac{3}{4}$ " maximum
- Discharge size: 2" NPT
- Capacities: up to 140 GPM
- Total heads: up to 128 feet TDH
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on $\frac{1}{3}$ - 1½ HP models.
- Class F insulation on 2 HP models.

Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

- SJTOW or STOW severe duty oil and water resistant power cords.
- $\frac{1}{3}$ - 1 HP models have NEMA three prong grounding plugs.
- 1½ HP and larger units have bare lead cord ends.

Three phase (60 Hz):

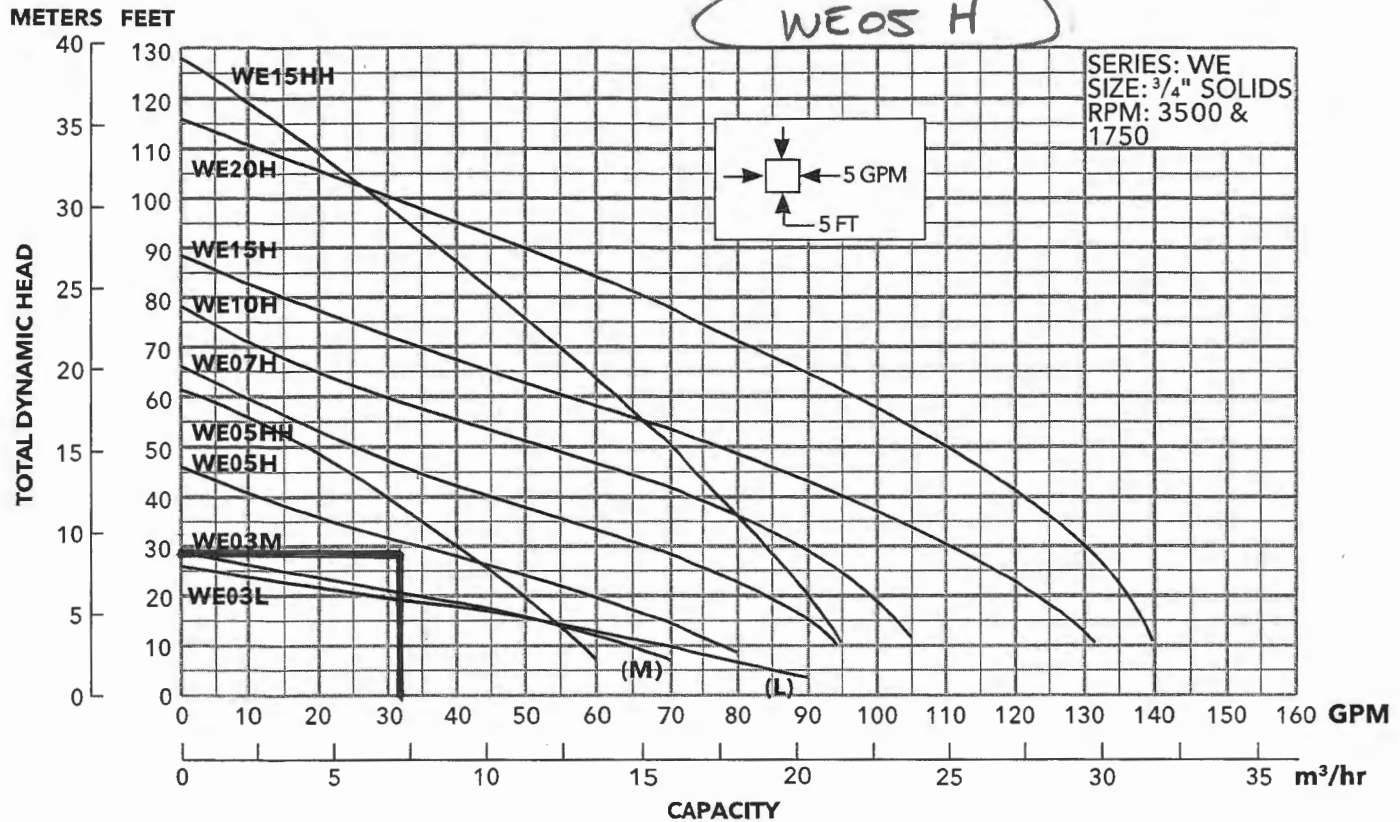
- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage.

AGENCY LISTINGS



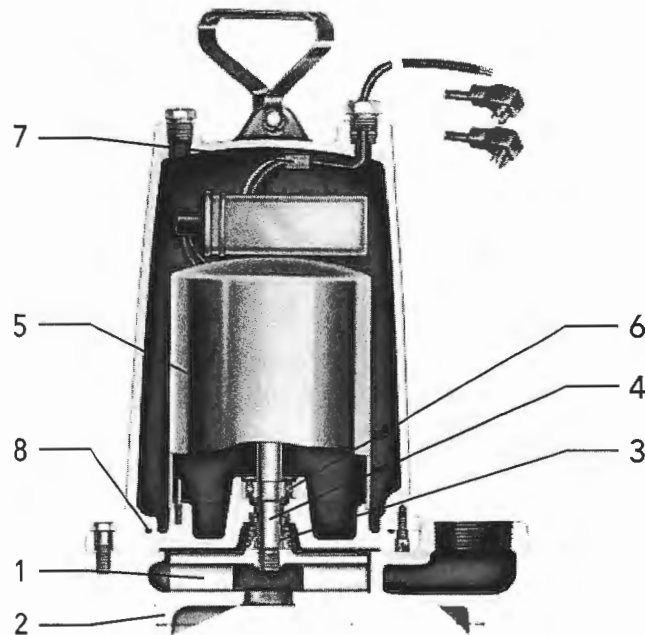
Tested to UL 778 and CSA 22.2 108 Standards
By Canadian Standards Association File #LR38549

Wastewater



COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



MODELS

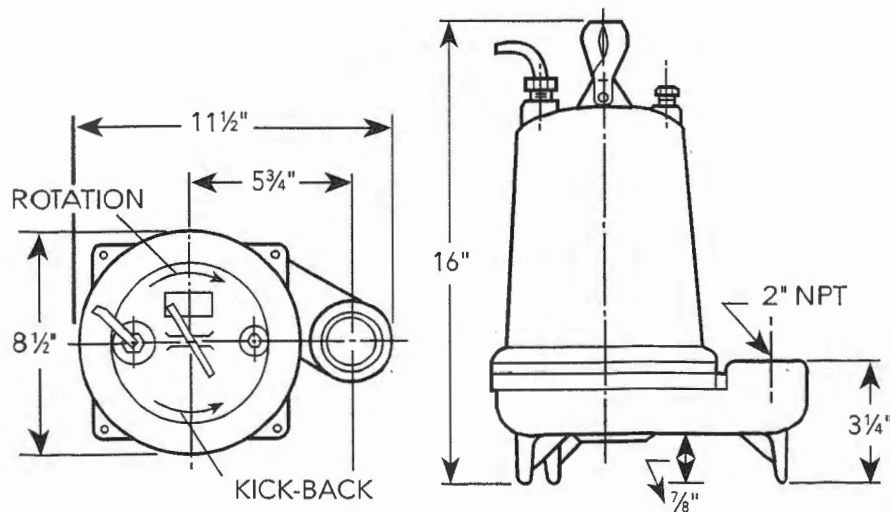
Order Number	HP	Phase	Volts	RPM	Impeller Diameter (in.)	Maximum Amps	Locked Rotor Amps	KVA Code	Full Load Efficiency %	Resistance		Power Cable Size	Weight (lbs.)		
										Start	Line-Line				
WE0311L	0.33	1	115	1750	5.38	10.7	30.0	M	54	11.9	1.7	16/3	56		
WE0318L			208			6.8	19.5	K	51	9.1	4.2				
WE0312L			230			4.9	14.1	L	53	14.5	8.0				
WE0311M			115			10.7	30.0	M	54	11.9	1.7				
WE0318M			208			6.8	19.5	K	51	9.1	4.2				
WE0312M			230			4.9	14.1	L	53	14.5	8.0				
WE0511H	0.5	1	115	3450	3.56	14.5	46.0	M	54	7.5	1.0	14/3	60		
WE0518H			208			8.1	31.0	K	68	9.7	2.4	16/3			
WE0512H			230			7.3	34.5	M	53	9.6	4.0	14/4			
WE0538H			3			200	4.9	22.6	R	68	NA			3.8	
WE0532H						230	3.3	18.8	R	70	NA			5.8	
WE0534H						460	1.7	9.4	R	70	NA			23.2	
WE0537H		1	575		3.88	1.4	7.5	R	62	NA	35.3	14/3			
WE0511HH			115			14.5	46.0	M	54	7.5	1.0				
WE0518HH			208			8.1	31.0	K	68	9.7	2.4			16/3	
WE0512HH			230			7.3	34.5	M	53	9.6	4.0			14/4	
WE0538HH			3			200	4.9	22.6	R	68	NA				3.8
WE0532HH						230	3.6	18.8	R	70	NA				5.8
WE0534HH		460			1.8	9.4	R	70	NA	23.2					
WE0537HH		575	1.5		7.5	R	62	NA	35.3	14/3					
WE0718H		0.75	1		208	4.06	11.0	31.0	K		68	9.7		2.4	
WE0712H					230		10.0	27.5	J		65	12.2		2.7	
WE0738H			3		200		6.2	20.6	L		64	NA		5.7	14/4
WE0732H					230		5.4	15.7	K		68	NA		8.6	
WE0734H	460			2.7	7.9		K	68	NA		34.2				
WE0737H	575			2.2	9.9		L	78	NA	26.5					
WE1018H	1	1	208	4.44	14.0	59.0	K	68	9.3	1.1	14/3	70			
WE1012H			230		12.5	36.2	J	69	10.3	2.1					
WE1038H		3	200		8.1	37.6	M	77	NA	2.7	14/4				
WE1032H			230		7.0	24.1	L	79	NA	4.1					
WE1034H			460		3.5	12.1	L	79	NA	16.2					
WE1037H			575		2.8	9.9	L	78	NA	26.5					
WE1518H	1.5	1	208	4.56	17.5	59.0	K	68	9.3	1.1	14/3	80			
WE1512H			230		15.7	50.0	H	68	11.3	1.6					
WE1538H		3	200		10.6	40.6	K	79	NA	1.9	14/4				
WE1532H			230		9.2	31.7	K	78	NA	2.9					
WE1534H			460		4.6	15.9	K	78	NA	11.4					
WE1537H			575		3.7	13.1	K	75	NA	16.9					
WE1518HH		1	208	5.50	17.5	59.0	K	68	9.3	1.1	14/3				
WE1512HH			230		15.7	50.0	H	68	11.3	1.6					
WE1538HH		3	200		10.6	40.6	K	79	NA	1.9	14/4				
WE1532HH			230		9.2	31.7	K	78	NA	2.9					
WE1534HH			460		4.6	15.9	K	78	NA	11.4					
WE1537HH			575		3.7	13.1	K	75	NA	16.9					
WE2012H	2	3	230	5.38	18.0	49.6	F	78	3.2	1.2	14/3	83			
WE2038H			200		12.0	42.4	K	78	NA	1.7					
WE2032H			230		11.6	42.4	K	78	NA	1.7					
WE2034H			460		5.8	21.2	K	78	NA	6.6					
WE2037H			575		4.7	16.3	L	78	NA	10.5					

PERFORMANCE RATINGS (gallons per minute)

Order No.	WE-03L	WE-03M	WE-05H	WE-07H	WE-10H	WE-15H	WE05HH	WE15HH	WE-20H
HP	1/8	1/8	1/4	3/8	1	1 1/2	1/2	1 1/2	2
RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
5	86	-	-	-	-	-	-	-	-
10	70	63	78	94	-	-	58	95	-
15	52	52	70	90	103	128	53	93	138
20	27	35	60	83	98	123	49	90	136
25	5	15	48	76	94	117	45	87	133
30	-	-	35	67	88	110	40	83	130
35	-	-	22	57	82	103	35	80	126
40	-	-	-	45	74	95	30	77	121
45	-	-	-	35	64	86	25	74	116
50	-	-	-	25	53	77	-	70	110
55	-	-	-	-	40	67	-	66	103
60	-	-	-	-	30	56	-	63	96
65	-	-	-	-	20	45	-	58	89
70	-	-	-	-	-	35	-	55	81
75	-	-	-	-	-	25	-	51	74
80	-	-	-	-	-	-	-	47	66
90	-	-	-	-	-	-	-	37	49
100	-	-	-	-	-	-	-	28	30

DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



STANDARD PANEL OPTIONS

Pump Order Number	K Series		Boulay Series	
	Simplex	Duplex	Simplex	Duplex
WE0311L	KS19020WF	KD19020WF	S10020	D10020
WE0318L	KS19020WF	KD19020WF	S10020	D10020
WE0312L	KS19020WF	KD19020WF	S10020	D10020
WE0311M	KS19020WF	KD19020WF	S10020	D10020
WE0318M	KS19020WF	KD19020WF	S10020	D10020
WE0312M	KS19020WF	KD19020WF	S10020	D10020
WE0511H	KS19020WF	KD19020WF	S10020	D10020
WE0518H	KS19020WF	KD19020WF	S10020	D10020
WE0512H	KS19020WF	KD19020WF	S10020	D10020
WE0538H	KS31255WF	KD31255WF	S34063	D34063
WE0532H	KS31255WF	KD31255WF	S32540	D32540
WE0534H	KS31255WF	KD31255WF	S31625	D31625
WE0537H	N/A	N/A	S31625	D31625
WE0511HH	KS19020WF	KD19020WF	S10020	D10020
WE0518HH	KS19020WF	KD19020WF	S10020	D10020
WE0512HH	KS19020WF	KD19020WF	S10020	D10020
WE0538HH	KS31255WF	KD31255WF	S34063	D34063
WE0532HH	KS31255WF	KD31255WF	S32540	D32540
WE0534HH	KS31255WF	KD31255WF	S31625	D31625
WE0537HH	N/A	N/A	S31625	D31625
WE0718H	KS19020WF	KD19020WF	S10020	D10020
WE0712H	KS19020WF	KD19020WF	S10020	D10020
WE0738H	KS34518WF	KD34518WF	S36310	D36310
WE0732H	KS34518WF	KD34518WF	S34063	D34063
WE0734H	KS31255WF	KD31255WF	S32540	D32540
WE0737H	N/A	N/A	S31625	D31625
WE1018H	KS19020WF	KD19020WF	S10020	D10020
WE1012H	KS19020WF	KD19020WF	S10020	D10020
WE1038H	KS34518WF	KD34518WF	S36310	D36310
WE1032H	KS34518WF	KD34518WF	S36310	D36310
WE1034H	KS34518WF	KD34518WF	S32540	D32540
WE1037H	N/A	N/A	S32540	D32540
WE1518H	KS19020WF	KD19020WF	S10020	D10020
WE1512H	KS19020WF	KD19020WF	S10020	D10020
WE1538H	KS34518WF	KD34518WF	S31016	D31016
WE1532H	KS34518WF	KD34518WF	S36310	D36310
WE1534H	KS34518WF	KD34518WF	S34063	D34063
WE1537H	N/A	N/A	S32540	D32540
WE1518HH	KS19020WF	KD19020WF	S10020	D10020
WE1512HH	KS19020WF	KD19020WF	S10020	D10020
WE1538HH	KS34518WF	KD34518WF	S31016	D31016
WE1532HH	KS34518WF	KD34518WF	S36310	D36310
WE1534HH	KS34518WF	KD34518WF	S34063	D34063
WE1537HH	N/A	N/A	S32540	D32540
WE2012H	KS19020WF	KD19020WF	S10020	D10020
WE2038H	KS34518WF	KD34518WF	S31016	D31016
WE2032H	KS34518WF	KD34518WF	S31016	D31016
WE2034H	KS34518WF	KD34518WF	S34063	D34063
WE2037H	N/A	N/A	S34063	D34063

Note: Boulay Series part numbers have additional available features, see page 7 for more information.

Note: K Series panel part numbers include floats, to order without float switches, remove the 'WF' suffix. Boulay Series panels do not include float switches.



K-SERIES

- NEMA 4X dead front outdoor rated enclosure
- Red LED alarm beacon
- HOA selector switch
- Field wiring terminal block
- Single phase models handle 120, 208 and 230V service
- Three phase models handle 200, 230 and 460V service
- Requires separate control/alarm power feed
- See brochure "BCPKSDPANELS" for additional information

BOULAY SERIES

- NEMA 4X outdoor rated enclosure
- Red alarm beacon
- HOA selector switch
- Through door pump run light(s)
- Through door alarm test and horn silence button
- Single phase models handle 120, 208 and 230V service
- Three phase models handle 200, 230, 460 and 575V service
- Accepts single or dual power feed
- See brochure "BCP3 R11" for additional information on simplex models
- See brochure "BCP4 R14" for additional information on duplex models

Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xyleminc.com



Xylem Inc.
2881 East Bayard Street Ext., Suite A
Seneca Falls, NY 13148
Phone: (866) 325-4210
Fax: (888) 322-5877
www.xylem.com/goulds

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1124 Taylor Park Rd, Sykesville,

Clerk of the Circuit Court for ^{MD}
Howard County 21784
Land Records/Licensing

6095 Marshalee Drive
Suite 120
Elkridge, MD 21075
410-313-5850

=====
LR - Agreement Recording Fee
1x 20.00 20.00

Name: Patterson
Ref: 5

LR - Agreement Surcharge
1x 40.00 40.00

=====
SubTotal: 60.00
Total: 60.00

=====
CRD-Credit 60.00
Credit Card Confirmation : 621251

02/24/2020 09:53 CC17-DH
#13432980/396/109
Thank you for visiting us today~

CIRCUIT COURT FOR MD
8360 COURT AVE
ELLCOTT CITY, MD 21043

Merchant ID: 2300
Term #: 1202

Store #: 4153
Ref #: 0001

Clerk ID: 6116

Sale

XXXXXXXXXXXX9605
VISA

Entry Method: Chip

Total: \$ 60.00

02/24/20 09:54:26
Inv #: 000001 Appr Code: 621251
Transaction ID: 300055536671960
Apprvd: Online Batch#: 000034

Visa Credit
AID: A0000000031010
TSI: 6800
TVR: 8000000000

Customer Copy

NO REFUND
WITHOUT
COURT ORDER



CANAAN VALLEY INSTITUTE

February 12, 2020

Robert Patterson
7394 Minter Lane
Clarksville, MD 21029

RE: FY 2020 Howard County Bay Restoration Fund OSDS Upgrade Program

Dear Mr. Patterson:

Thank you for your application to participate in the Howard County Bay Restoration Fund OSDS Upgrade Program. The Howard County Health Department has verified that your existing septic system at **1124 Taylor Park Road, Sykesville, MD** is failing and in need of repair. Based on your 2018 income tax return form, you are eligible to receive funding to cover **100%** of the cost to upgrade your system to one of the MDE approved BAT units listed below. The approved price includes the cost of the unit, installation of the unit, and 5 years of operation and maintenance. The price does not include the cost of permits.

<u>System</u>	<u>Vendor</u>	<u>Contact</u>	<u>Phone</u>
Norweco Singulair TNT	Back River Precast	Matt Geckle	410-833-3394
Biomicrobics	Dwayne C. Jones	Dwayne C. Jones	410-692-6900
HOOT	Mayer Bros, Inc.	Nancy Mayer	410-796-1434
Hydroaction	Sample Excavating	Mike Sample	443-807-8639
Orenco	Atlantic Solutions	Bob Johnson	877-814-8426
Septitech	Dwayne C. Jones	Dwayne C. Jones	410-692-6900
Aquaklear	BayStar Precast	Dave Care	410-977-3453

In order to receive your OSDS upgrade, **you MUST follow these steps:**

1. **Sign this letter** on the bottom of page 2 **and return it** in the envelope provided within **2 weeks of the date of this letter**.
2. File a septic repair permit application with the Howard County Health Department **within 2 weeks of the date of this letter**. The permit application fee is \$396.00 (\$165 for tank approval only).
3. Obtain the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration Funds from the Howard County Health Department, have it signed by a Howard County Health Department Bureau Director or Designee. Then take it to the Circuit Court and have it recorded in Land Records **within 2 weeks of the date of this letter**.
4. Prepare your property and schedule installation of the system. The system must be installed **within 6 weeks of the date the Agreement and Easement is recorded**.

If assistance is needed in completing any of the steps listed above, you may contact me at 304-940-3443 or kristin.mielcarek@canaanvi.org.

10624 Appalachian Highway | Davis, WV 26260
www.canaanvi.org

1124 Taylor Park Road

OSDS BAT_LPD Drainfield Specifications

Table A - Drainfield Quick Shot											
Trench	5	Trench Length (ft)	Inlet Depth (ft)	Depth of Stone (ft)	Lateral Length (ft)	Number of Orifices	Orifice Diameter (in)	Orifice Spacing (ft)	Orifice Flow Rate (gpm)	Trench Flow Rate (gpm)	Distal Head (ft)
1A	447	28	3	7	26	7	5/16	4	1.63	11.41	2
1B	447	28	3	7	26	7	5/16	4	1.63	11.41	2
2A	446	28	2	8	26	7	5/16	4	1.63	11.41	2
2B	446	28	2	8	26	7	5/16	4	1.63	11.41	2
Total						28				45.64	

FL 30 H P 4 OF 17

The system vendor may provide a contractor to install your BAT unit. CVI will provide payment directly to the vendor. The vendor may also require proof of insurance from your contractor.

If your system is not installed within the 8 week timeframe listed in the steps on page 1, the funds may be released and used elsewhere. If you cannot complete installation in within this timeframe, please contact me to request an extension. Please note that failure to request an extension may result in termination of your grant and your system must be installed no later than June 27, 2020 in order to retain your funding.

For more information on septic repair permitting, contact:

Jeff Williams
Program Supervisor, Well and Septic
410-313-1771

Please sign and return this original letter and keep a copy for your records. If you have any questions, please contact me at 304-940-3443 or by email at kristin.mielcarek@canaanvi.org.

Sincerely,

Kristin Mielcarek, Executive Director

I have read and agree to the conditions of this Agreement Letter.

Accepted by: Robert Patterson, Property Owner

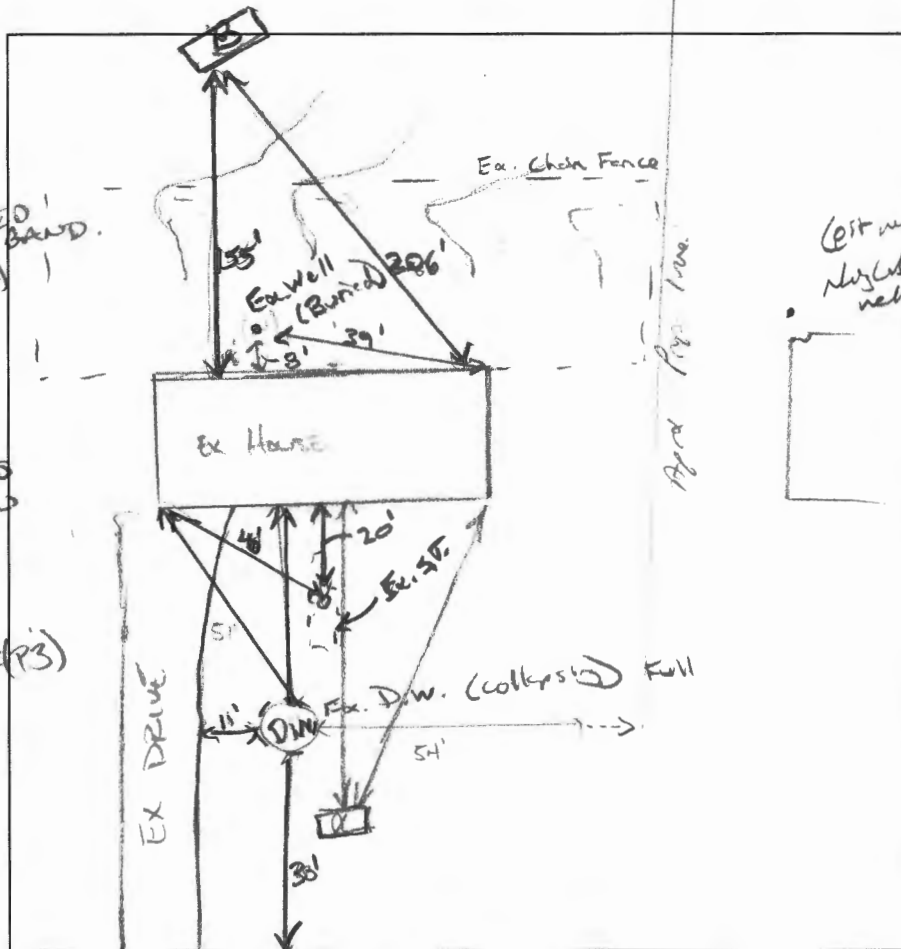
Signature

Date

*PERC HERE RELAYED
W/TO GRADE W/ 30 MINUTE

3" 8"
LICKSBK (F1)
RED BAND.
FI LOAM (P2)
FEW MCH
2546 SLG
(STRENGTHEN)
S.L
M/BK MASS
104516 YBRN

9' PEDOXON (P3)
CLAY/SAT
H2O



- Taylor Park Road -

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
01/08/2020	X	5' 9"	11:20	pulled	no movement		F
11/9/2020	(R)	6' 3"	00:02	00:05	00:09	4	P
		5' 4"	00:16	00:35	01:03	28	P

H2O poured @ 14' ~ 3mp

REMARKS System will need to be pumped to back left corner of property
SANITARIAN J. Carberry BACKHOE Ricky OTHERS owner, K. Wain (H1)
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

TANK LID - 1.25' BELOW GRADE AT OUTLET (APPROX)

2' B-1 RJ-CL
WKF SBK,
Friable, rough
sandy
11 Br CL
WKG SBK, Friable
104 RX, CW
5' 10" 11 Br SL
WKF SBK
Friable,
9' B-1 RJ-CL
WKF SBK
Friable, rough

14'

FILE INQUIRY NOTES

[illegible]

Real Property Data Search (w1)

Search Result for HOWARD COUNTY

View Map		View GroundRent Redemption				View GroundRent Registration			
Special Tax Recapture: None									
Account Identifier:		District - 03 Account Number - 288404							
Owner Information									
Owner Name:		PATTERSON ROBERT M				Use:		RESIDENTIAL	
Mailing Address:		1124 TAYLOR PARK RD SYKESVILLE MD 21784-5444				Principal Residence:		NO	
						Deed Reference:		/09495/ 00190	
Location & Structure Information									
Premises Address:		1124 TAYLOR PARK RD SYKESVILLE 21784-0000				Legal Description:		LOT 20 S 3 1124 TAYLOR PARK RD RIVER PARK ESTS	
Map:	Grid:	Parcel:	Neighborhood:	Subdivision:	Section:	Block:	Lot:	Assessment Year:	Plat No:
0009	0011	0111	3010102.14	0002			20	2019	Plat Ref:
Special Tax Areas: None						Town:		None	
						Ad Valorem:		100	
						Tax Class:		None	
Primary Structure Built		Above Grade Living Area		Finished Basement Area		Property Land Area		County Use	
1966		1,344 SF				1.0000 AC			
Stories	Basement	Type	Exterior	Quality	Full/Half Bath	Garage	Last Notice of Major Improvements		
1	YES	STANDARD UNIT	BRICK/	4	1 full/ 1 half	1 Attached			
Value Information									
			Base Value		Value		Phase-in Assessments		
					As of		As of		As of
					01/01/2019		07/01/2019		07/01/2020
Land:			156,200		205,000				
Improvements			148,900		143,100				
Total:			305,100		348,100		319,433		333,767
Preferential Land:			0						0
Transfer Information									
Seller: JUN HYUNG WOOK				Date: 09/20/2005			Price: \$409,000		
Type: ARMS LENGTH IMPROVED				Deed1: /09495/ 00190			Deed2:		
Seller: KIM YU JUNG				Date: 05/06/2002			Price: \$175,000		
Type: NON-ARMS LENGTH OTHER				Deed1: /06156/ 00478			Deed2:		
Seller: KIM YU JUNG				Date: 05/06/2002			Price: \$0		
Type: NON-ARMS LENGTH OTHER				Deed1: /06156/ 00473			Deed2:		
Exemption Information									
Partial Exempt Assessments:		Class		07/01/2019			07/01/2020		
County:		000		0.00					
State:		000		0.00					
Municipal:		000		0.00 0.00			0.00 0.00		
Special Tax Recapture: None									
Homestead Application Information									
Homestead Application Status: Denied									
Homeowners' Tax Credit Application Information									
Homeowners' Tax Credit Application Status: No Application						Date:			

1. This screen allows you to search the Real Property database and display property records.



HOWARD COUNTY HEALTH DEPARTMENT

67374

4 / ^{DATE} 24 / 2020

PS

Received
From

Freedom Septic

PHONE #

410-795-2947

For

OSDS Upgrades Program

1124 Taylor Park Road

Sylversville, MD

☐ CASH

☒ CHECK

NO. 4780

Three hundred + ninety Six

Dollars

\$

396 | 00

Received By

V. DeKorney