



Howard County Health Department

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

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

RECEIPT DATE: 3/22/21 **ONSITE SEWAGE DISPOSAL SYSTEM** P 568807
APPROVAL DATE: 6/16/21 **PERMIT: CONSTRUCTION** A _____
PROPERTY ADDRESS: 1048 STEPPING PLACE, SYKESVILLE, MD 21784
SUBDIVISION: WALKER MEADOWS LOT: 17 TAX ID: 03-601575
CONTRACTOR: _____ EMAIL: _____
CONTRACTOR ADDRESS: _____ PHONE: _____
CONTRACTOR CERTIFIED FOR BAT INSTALLATION: ☐ MDE ☐ MANUFACTURER:
PROPERTY OWNER: NVR, INC. EMAIL: janastas@nvrinc.com
OWNER ADDRESS: 9720 PATUXENT WOODS DRIVE, COLUMBIA, MD 21046 PHONE: (410)379-5956
BAT UNIT MODEL: HOOT 600 BNR PUMP SIZE: 0.3 Hp PUMP TANK CAPACITY: 1500 *1500 OK*
OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: _____ DATE RECORDED: _____

DISTRIBUTION SYSTEM: ☐ GRAVITY ☒ PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2

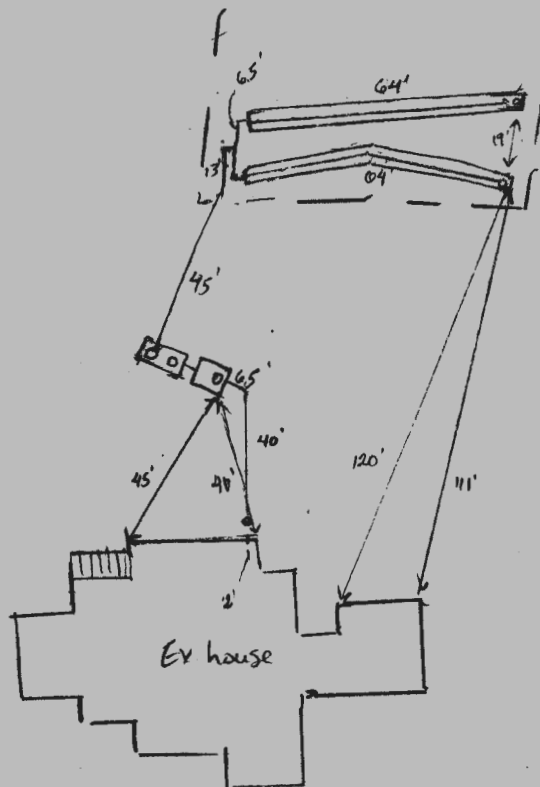
TRENCHES:	LINEAR FEET REQUIRED:	<u>127</u>	INLET DEPTH:	<u>2.0</u>
	TRENCH WIDTH:	<u>3</u>	MAXIMUM BOTTOM DEPTH:	<u>5.0</u>
	MINIMUM SPACE BETWEEN TRENCHES:	<u>10</u>	EFFECTIVE AREA BEGINNING DEPTH:	<u>2.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.			
NOTES:	INSTALL CLEANOUT IN SHC NEAR FOUNDATION. RECOMMENDED EFFLUENT PUMP (FOR LPD SYSTEM) IS WE-03L, OR EQUIVALENT. A PUMP AND ALARM TEST MUST BE SUCCESSFULLY COMPLETED PRIOR TO FINAL APPROVAL OF SEPTIC SYSTEM INSTALLATION.			

ISSUED BY: R BRICKER ISSUE DATE: 3/23/21 EXPIRATION DATE: 3/22/22

- 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 DOWNGRADIENT 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 _____
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



ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2'	5'
NUMBER OF TRENCHES <u>2</u>		
TOTAL LENGTH <u>128'</u>		
ABSORPTION AREA <u>38.4 sq ft + sidewalk</u>		
DISTRIBUTION BOX LEVEL <u>N/A</u>		
DISTRIBUTION BOX BAFFLE <u>N/A</u>		
DISTRIBUTION BOX PORT <u>N/A</u>		

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL	<u>yes</u>
MANUFACTURER	<u>Hoat/Backme</u>
CAPACITY	<u>6000</u> GAL
SEAM LOC	<u>top</u>
TANK LID DEPTH	<u>3'</u>
BAFFLES	<u>N/A</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>inlet</u>
6" PORT LOC	<u>-</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>-</u>
DATE ON LID	<u>4-14-21</u>
PUMP/SEPTIC TANK LEVEL	<u>-</u>
MANUFACTURER	<u>Back River</u>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>top</u>
TANK LID DEPTH	<u>3'</u>
BAFFLES	<u>-</u>
BAFFLE FILTER	<u>-</u>
MANHOLE LOC	<u>inlet + outlet</u>
6" PORT LOC	<u>-</u>
WATERTIGHT TEST	<u>-</u>
SLOTTED	<u>-</u>
DATE ON LID	<u>4-13-21</u>

PRE-CONSTRUCTION:

4/20/21 Laid out 2x6'4" trenches on contour. Using laser level found there is a 3' difference in elevation from house to first tank. Tank is 70' from house, which would require a 17" difference to make 2% fall. Moving tanks downhill may place them too close to SWM drywells and swale. Asked contractor to stake drywells, checking with plan review about tank location. (SP) 6/1/21 - new ASDS plan provided to contractor - septic tanks have been moved closer to the house in order to make fall - looks good, SI's staked - ok to continue. (22)

INSTALLATION: 6/9/21 2x6'4" CPD trenches installed yesterday according to plan (see attached email). Today, 1/2 HOOT Tank and pump tank set. (37) 6/10/21 SL and FM constructed. Reinsp for BAT startup and S4C. (SP) 6/16/21 (PM) Pump and alarm passed according to R. Rappaport. HOOT also passed inspection. (37)

FINAL INSPECTOR

Dawn Thomas

DATE OF APPROVAL

6/16/2021

FILE INQUIRY NOTES

6/25/15
RFB

DATE	RESULTS OF REVIEW FOR FILE
	Diehl Property, Lot 2 Proposed Lot 27 ¹⁷
<p>* Any septic system drain field installed in the area of this lot must have low-pressure distribution (LPD) design or an approved alternative design.</p>	
<p>R Bricker 6/5/2014</p>	
<p>9/20/15</p>	<p>Septic system must include a BAT unit Trench bottoms are limited to 5 ft depth.</p>
<p>R Bricker</p>	



6/8/21 - 1pd trenches w/
manifold
1048 Stepping Pl.
pics from S. Carroll ~~AD~~ 6/8/21

Thomas, Susan

From: Ryan <ryanrappaport@yahoo.com>
Sent: Wednesday, June 9, 2021 8:43 AM
To: Cook, Kathleen
Cc: Thomas, Susan
Subject: 1048 Stepping Place.

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi Kathleen thanks for printing these pics in color for the file. Much appreciated.

Hi Susan, thanks for picking up inspections today. This was South Carroll yesterday. I laid out the new tank location yesterday in the morning and Drew asked me to come back in the afternoon. He wanted to get the trenches and manifold done and cover them up before the rain. I couldn't get back out there so he sent some photos. Perforations drilled and counted for the lpd system and he said that he'd take the measurements for the asbuilt.







NON-BUILDABLE
PRESERVATION
PARCEL 'B'

S21°17'24"E
117.73'

30' BRL

S82°56'55"W
133.26'

NAD83/1981
MARYLAND COORDINATE SYSTEM

16

17
46,441 S.F.±
1.066 AC.±

18

S85°36'53"E
325.69'

10' BRL

10' BRL
169.77'
N78°12'42"W
10.0'±

FOURED
CONCRETE
WALLS

EX. WELL
HO 17-0266

50' BRL

WELL
BOX

10' BRL

134.01'
S39°16'20"W

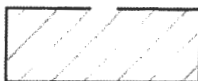
L=64.37'
R=89.00'

STEPPING
PLACE
PUBLIC ACCESS STREET

50'
R/W

NON-BUILDABLE
PRESERVATION
PARCEL 'F'

BRL - BUILDING RESTRICTION LINE



PRIVATE SEWAGE
DISPOSAL AREA

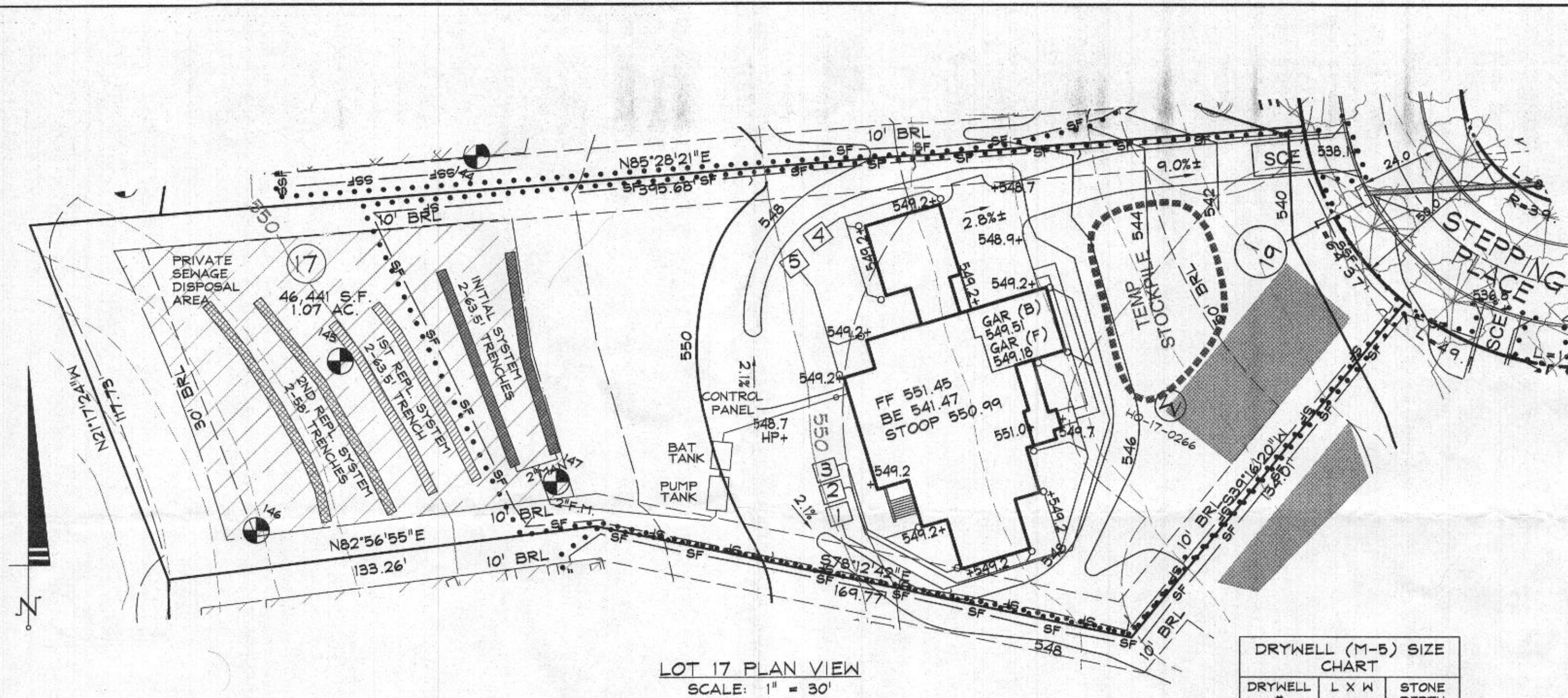
SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY
PREPARED OR WAS IN RESPONSIBLE CHARGE OVER
THE PREPARATION OF THIS DRAWING AND THE
SURVEYING WORK REFLECTED IN IT, AND THAT IT
IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH
IN REGULATION .12 OF CHAPTER 06, MINIMUM
STANDARDS OF PRACTICE. I AM A DULY LICENSED
PROFESSIONAL LAND SURVEYOR UNDER THE LAWS
OF THE STATE OF MARYLAND, LICENSE No. 11039,
EXPIRATION DATE 09/16/22.

Approved 3/23/21



3/18/21

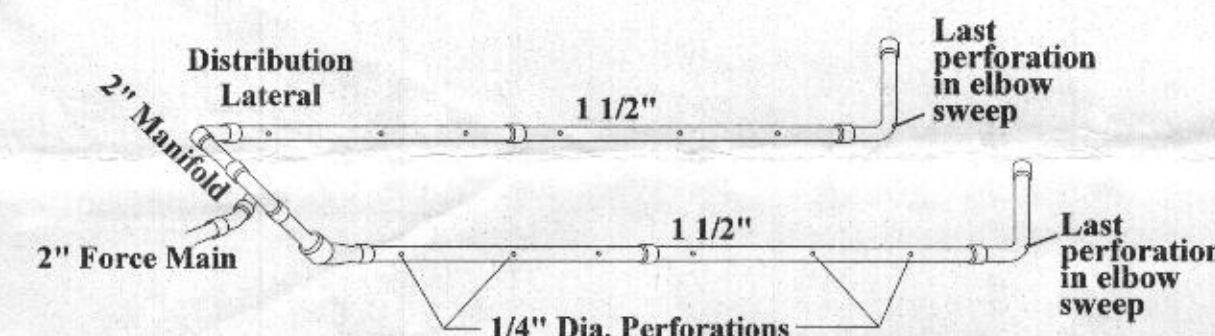


DRYWELL (M-5) SIZE CHART			
DRYWELL #	L X W	STONE DEPTH	
1	7'x6'	5'	
2	7'x6'	5'	
3	7'x6'	5'	
4	7'x6'	5'	
5	7'x6'	5'	

REFER TO SHEET 25 (F-17-045) FOR DRYWELL DETAIL D-9.01.

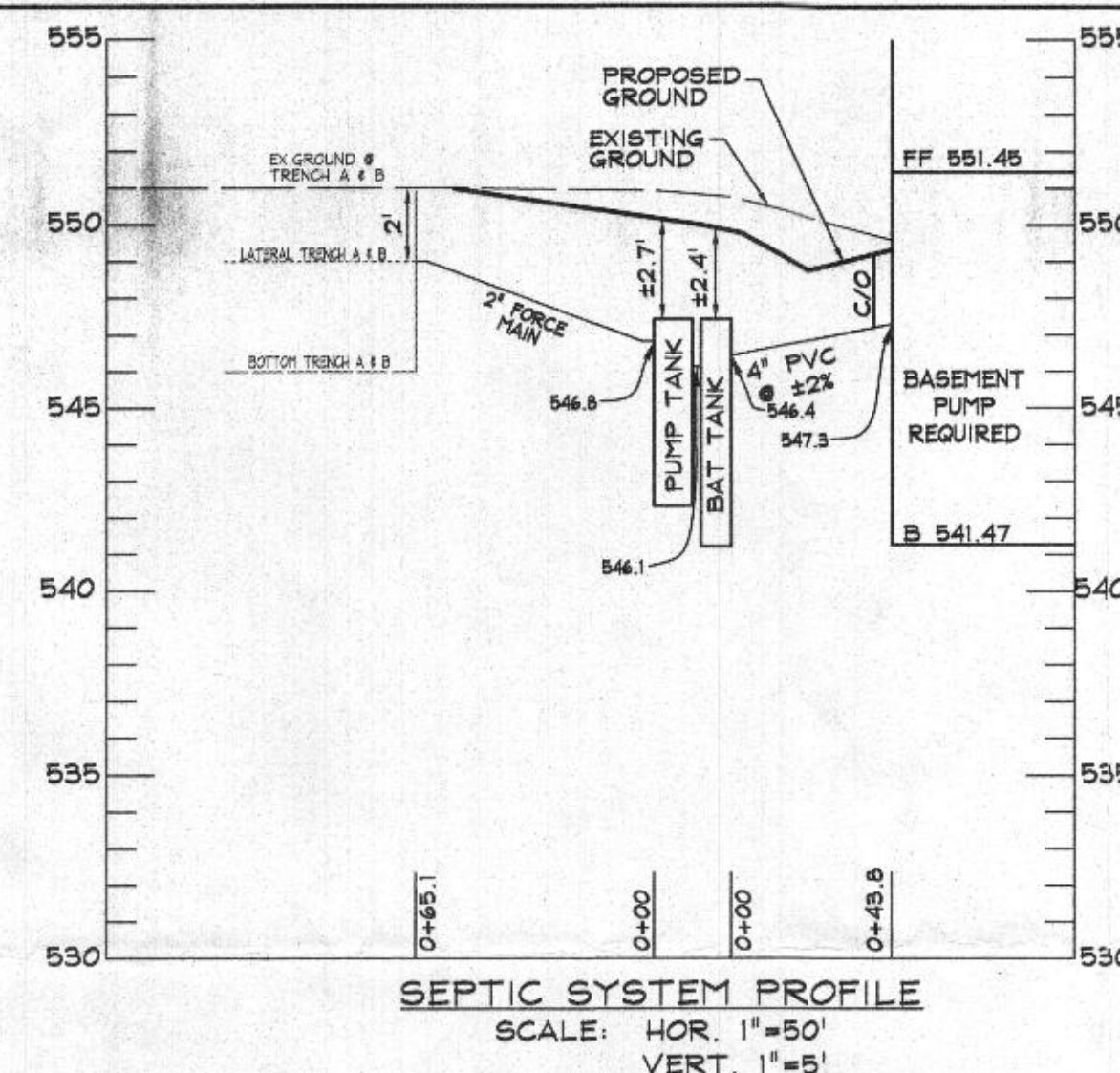
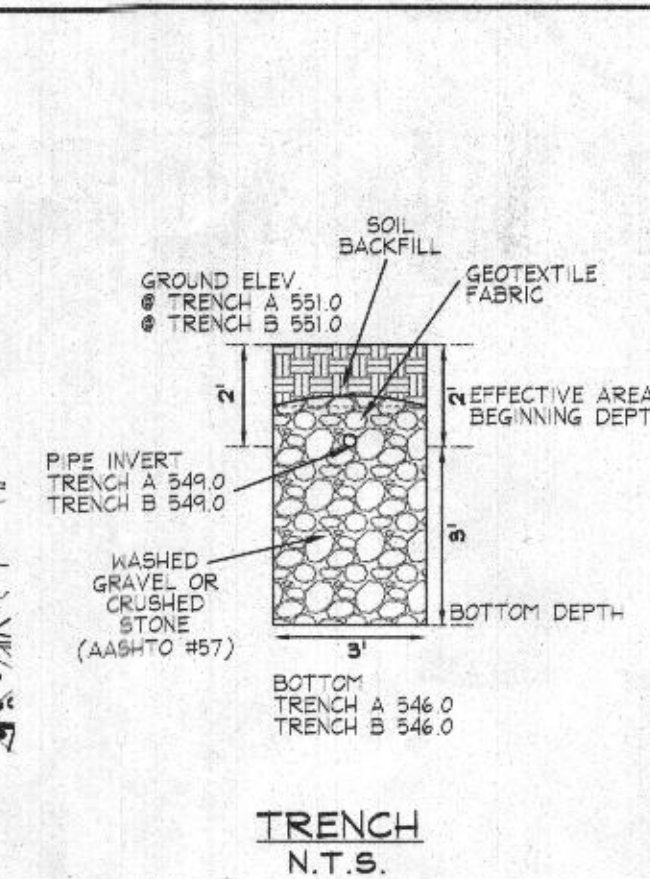
IF THE LOCATION OF THE OF THE STANDARD PROBE STAFF IN THE PUMP TANK IS MORE THAN 50' FROM THE CONTROL PANEL A FLOAT TREE MUST BE INSTALLED TO CONTROL THE RECIRCULATION PUMP INSTEAD OF THE STANDARD PROBE STAFF. CALL MAYER BROS. IN ADVANCE TO ORDER PARTS AND DISCUSS.

IF LATERAL TURN-UPS ARE CUT OFF BELOW THE SOIL SURFACE, THEY ARE NOT TO BE CUT OFF BEFORE A PRESSURE TEST IS CONDUCTED. CUT OFF TURN-UPS ARE TO BE PROTECTED BY A TURF BOX WHICH IS SUPPORTED BY BRICKS RESTING ON GRAVEL.



20 Perforations Evenly Spaced 38.00" OC
20 Perforations Evenly Spaced 38.00" OC
40 Total Perforations

END FEED MANIFOLD DISTRIBUTION NETWORK
(Modified from EPA Design Manual)
N.T.S.
EACH LATERAL SHALL HAVE 1/4" DIA. PERFORATIONS



LOT 17 - RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM (A)	2'	1'	5'
INITIAL SYSTEM (B)	2'	1'	5'
1ST REPLACEMENT (A)	2'	1'	5'
1ST REPLACEMENT (B)	2'	1'	5'
2ND REPLACEMENT (A)	2'	2.5'	5'
2ND REPLACEMENT (B)	2'	2.5'	5'

LOT 17 - APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM (A)	551.0	549.0	546.0
INITIAL SYSTEM (B)	551.0	549.0	546.0
1ST REPLACEMENT (A)	550.5	548.5	545.5
1ST REPLACEMENT (B)	549.5	547.5	544.5
2ND REPLACEMENT (A)	548.5	546.5	543.5
2ND REPLACEMENT (B)	547.5	545.5	542.5

LOT 17 - INITIAL SYSTEM LATERALS										
LATERAL	ELEV	VARIABLE HEAD	PERF. FLOW RATE	# PERF.	PERF. DIAMETER	LATERAL FLOW RATE	PERF. SPACING	LATERAL LENGTH	TRENCH LENGTH	1/2 PERF. SPACING
A	549.0	3.0	1.28	20	1/4	25.6	38.00"	62.75	63.5	19"
B	549.0	3.0	1.28	20	1/4	25.6	38.00"	62.75	63.5	19"
						51.2				

SEWAGE DISPOSAL SYSTEM DATA (6 BEDROOM):

- INVERT @ FOUNDATION WALL: 547.3 (BASEMENT PUMP REQUIRED)
- HOOT 600 BNR SYSTEM W/ 2,000 GALLON PUMP CHAMBER EX. GRADE OVER BAT TANK: 550.7
PROP. GRADE OVER BAT TANK: 549.9
INVERT: 546.4

PUMP TANK
EX GRADE OVER PUMP TANK: 550.9
PROP GRADE OVER PUMP TANK: 550.1
INVERT: 546.1

3. TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)

INITIAL SYSTEM @ 1ST REPLACEMENT SYSTEM
900 GPD / 1.2 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 36" OF EFFECTIVE DEPTH BELOW PIPE
750 SF / 3' WIDTH = 250 LF x 0.50 = 125 LF MIN. TRENCH

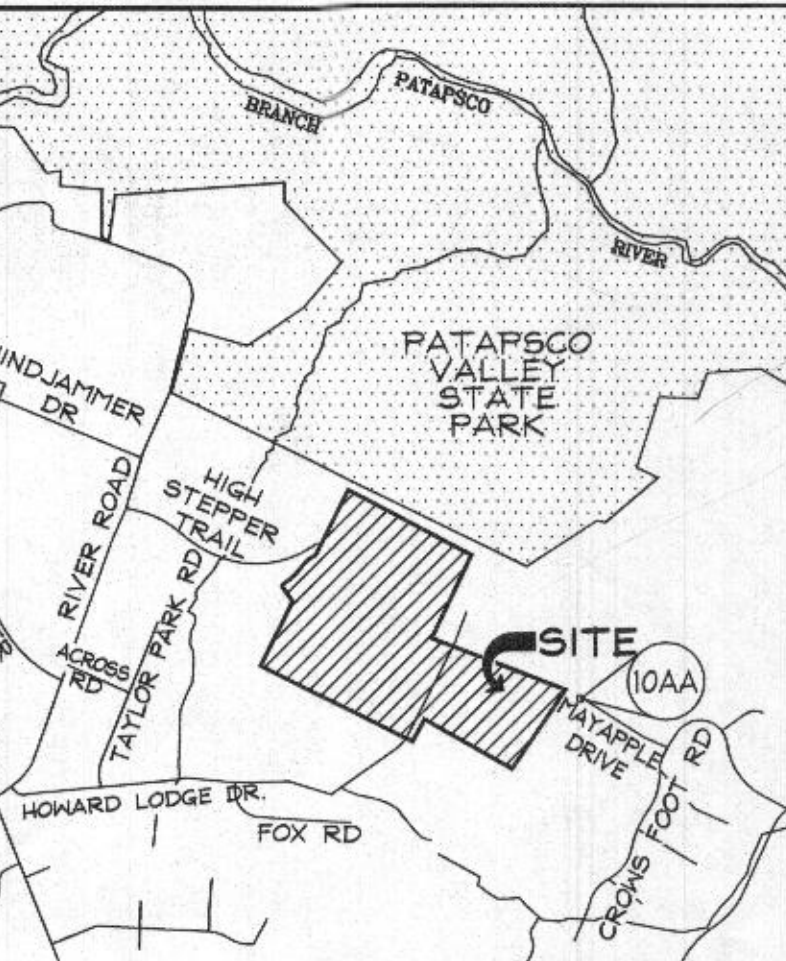
2ND REPLACEMENT SYSTEM
900 GPD / 1.2 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 30" OF EFFECTIVE DEPTH
750 SF / 3' WIDTH = 250 LF x 0.56 = 140 LF MIN. TRENCH

10' MIN SPACING BETWEEN TRENCH EDGES

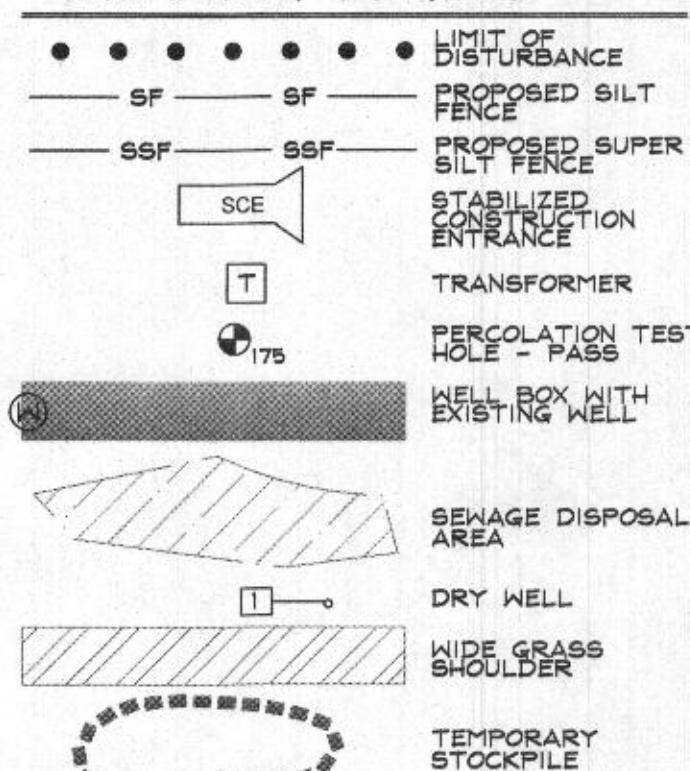
USE 2 - 63' LONG TRENCHES FOR INITIAL SYSTEM
USE 2 - 63' LONG TRENCHES FOR FIRST REPLACEMENT SYSTEM
USE 2 - 70' LONG TRENCHES FOR SECOND REPLACEMENT SYSTEM

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

- 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.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET.
- THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURER'S SPECIFICATIONS.
- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
- 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.
- ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
- THE WELL (TAG #H0-17-0266) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



DRAWING LEGEND



DATA SOURCES:

EX. BOUNDARY SHOWN PER BOUNDARY SURVEY BY SHANABERGER AND LANE DATED JUNE, 2014. TOPOGRAPHY SHOWN PER AERIAL PHOTOGRAMMETRY AND FIELD RUN TOPOGRAPHY DATED 5/2014. ADJACENT WELL AND SEPTIC INFORMATION APPROXIMATED FROM ADJACENT PLATS, HEALTH DEPARTMENT RECORDS AND FIELD OBSERVATION ON JUNE 26, 2012. EX. ENVIRONMENTAL INFORMATION SUCH AS PERMITS, ETC. SCIENCE SOLUTIONS CONDUCTED ON OR ABOUT JUNE, 2014.

DDC
Development Design Consultants

192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

OWNERS:
ESC WALKER MEADOWS, L.C.
5074 DORSEY HALL DR., SUITE 205
ELLICOTT CITY, MD 21042
410-720-3021

DEVELOPER:
NV HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-3391

WALKER MEADOWS
A RESUBDIVISION OF LOT 2 OF THE DIEHL PROPERTY (PLAT #6437)
LOTS 1-34 & BUILDABLE PRESERVATION PARCEL A & NON-BUILDABLE PRESERVATION PARCEL B-K, NON-BUILDABLE BULK PARCELS L-M
1045 STEPPING PLACE

LOT 17 SITE PLAN FOR BAT INSTALLATION

5TH COUNCIL DISTRICT
3RD ELECTION DISTRICT
HOWARD COUNTY, MD

REVISIONS

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE
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PUMP CHAMBER SPECIFICATIONS

Pump chamber volume (available for storage) = 2080 gallons

Pump chamber type [Enter "R" for rectangular or "C" for circular]: R

L - Interior tank length/diameter = 151 inches

W - Interior tank width/diameter = 55 inches

A - Cross-sectional area: For "C", 3.142 X (1/2) L² For "R", L X W = 8305 sq. inches

H - Interior tank height (height to inlet unless otherwise approved) = 5.11 inches

Vt - Actual (usable) tank volume = A X H / 2.31 (cubic inches per gallon) = 1632.8 gallons

pR - Pump riser height = 6 inches

DOSE INFORMATION/VOLUME CALCULATIONS

Vt - Volume in laterals X 5 = 67 gallons

Vc - Force main and manifold flow back volume = 14.28 gallons

Vc - Volume of Force Main + Manifold + 6x laterals = 81.28 gallons

Elevation of inside bottom (floor) of pump chamber = 542.2 feet

Pump height = 6 inches

FLOAT SETTINGS

Do - Pump off float setting (set so that pump remains submerged) = 22 inches

Do - Pump off float setting equates to an elevation of 544.03 feet

Distance req'd. b/n on and off floats = (Vc X 2.31) cubic inches per gallon / A = 4.5 inches

Pump on float setting = off float setting + distance b/n on and off floats = 26.5 inches

Ha - High water alarm setting = pump on float setting + 6 inches = 32.5 inches

STORAGE/PUMP REQUIREMENTS

Height of storage remaining above high water alarm = H - Ha = 14.5 inches

which equates to: 521.3 gallons

Height of storage above high water alarm required for ONE DAY'S storage = 25 inches

Height of storage above high water alarm required for a HALF DAY'S storage = 12.5 inches

SUMMARY

Pump riser height = 6 inches

Pump off float setting = 22 inches

Pump on float setting = 26.5 inches

High water alarm setting = 32.5 inches

[X] END MANIFOLD SPECIFICATIONS

Pipe Diameter = 2 inches

Distance between manifold and end of bed (12 inches suggested) = 12 inches

Number of lateral pipes = 2 lateral

Distance between laterals = 10 feet

Pipe sizes and diameters

	Actual	Length of pipe (feet)	Pipe volume in gallons (at 2.31)
2" Force Main	151"	12.58	14.28
2" Lateral	55"	12.58	14.28
2" Manifold	55"	12.58	14.28

HEAD CALCULATIONS

Relative elevation of manifold = 549 feet

Relative elevation of pump-off float = 544 feet

Static head = relative elevation of manifold - relative elevation of pump-off float = 5.0 feet

Friction head = due to friction in the pipe between the pump chamber and the laterals = 4.5 feet

Head required at end of laterals = 3.0 feet

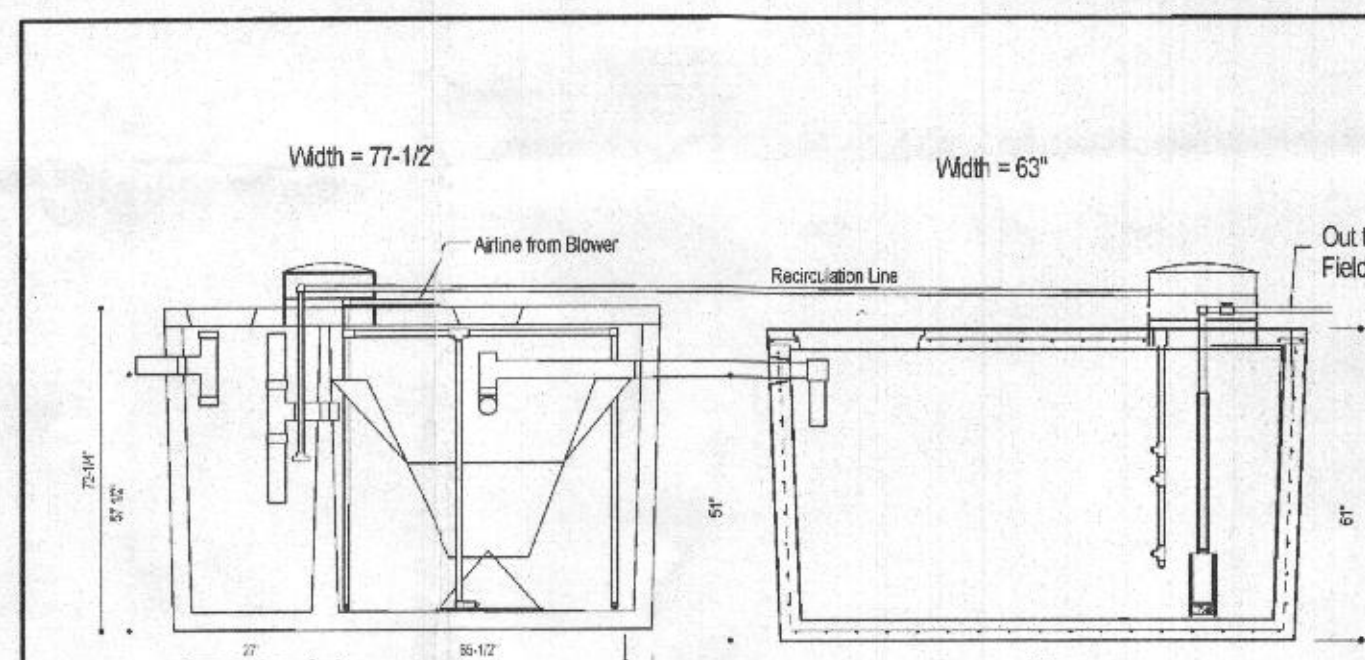
Total dynamic head = Hs + Hf + Hd + lateral friction + operating head = 14.0 feet

Friction loss

Horizontal dist. in inches	Actual inside diameter in inches	Type of pipe	Length in feet (actual or equivalent)	Velocity of flow in feet per second	Friction loss per 100 ft.	Friction loss in feet
Force main	2.067	2067	55.1	4.9	4.0	3.8
Force main fittings						
Combined length			55.1	4.9	4.0	3.8
Manifold	2.067	104.49	19	4.9	4.0	3.7

Friction loss/100 feet = 0.002862 X 100 X (100/friction-Williams factor)^{1.852} X (Qp^{1.852}/D^{4.8655})

*This formula assumes a Hazen-Williams friction factor for PVC pipe of 150



Goulds Water Technology

Wastewater

APPLICATIONS

Specifically designed for the following uses:

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

SPECIFICATIONS

Pump

- Solids handling capabilities: 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 IHP, voltage, shaft and RPM's available.

MOTORS

- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on 4- 1/2 HP models.
- Class F insulation on 2 HP models.

Single phase (60 Hz)

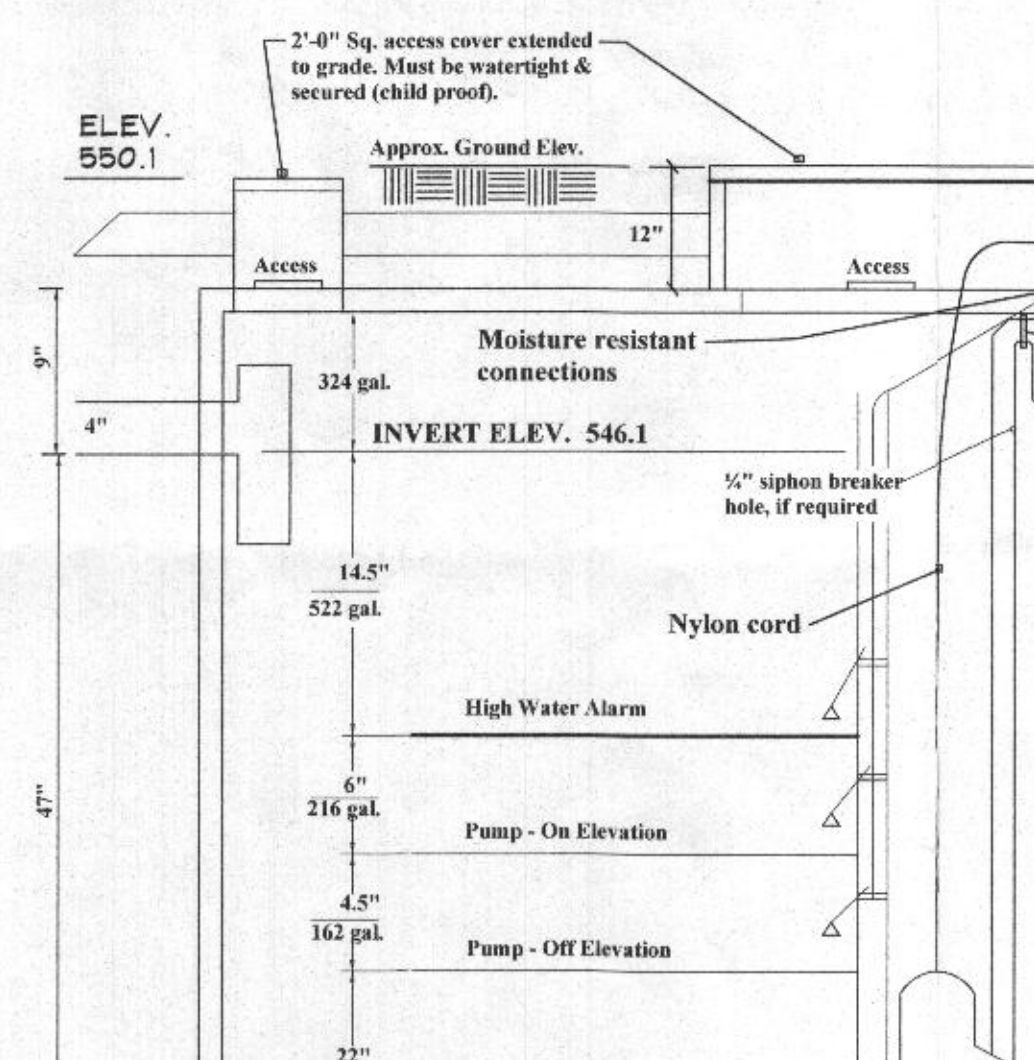
- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

AGENCY LISTINGS

Model 1511 728 and C24 222 118 Standard by Canadian Standards Association File #E54547

Technical Data

Model	Capacity (GPM)	Head (feet)	Power (HP)
1511	140	128	1/2
222	140	128	1/2



Approved Septic System Plan
Howard County Health Department
Hoot 600 BNR
w/ 2000 gal Pump tank
& Goulds W633-L pump
Signature: [Signature]
Date: 6/2/21
to LPD for 6 Bedrooms



MAYER BROS., INC.
Precast Concrete Products
100 Sharp Rd. Denton, MD 21629
PH: 410-796-1434
info@mayerprecast.com - www.mayerprecast.com

Letter of Satisfaction

Hoot System Installation

Address of Property: 1048 Stepping Place
Sykesville, MD

Date of Final Inspection: 6/16/12

Installer: South Carroll

HOOT Technician/Inspector: Andrew Rumbolt

I hereby certify that the Hoot System installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and that it is in proper working order.

Sincerely,

A. Rumbolt

Name of Inspector
Mayer Bros., Inc., O.S.I.S., LLC

O.S.I.S. - Onsite Septic Inspection & Service
100 Sharp Rd., Denton, MD 21629
410-796-1434 - www.osisllc.com

CSIS

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

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

LR - Agreement Recording Fee
1x 20.00 20.00

Name: kim
Ref: 58

LR - Agreement Surcharge
1x 40.00 40.00

SubTotal: 60.00
Total: 60.00

CRD-Credit 60.00
Credit Card Confirmation : 077472

07/01/2021 12:35 CC13-SB
#15146587/496/109

~ Thank you for visiting us today ~

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

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 22 day of June, ²⁰²¹, among NV Homes / Ji S Kim
_____, hereinafter collectively referred to as
"Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at
1048 Stepping Pl, in the 3 Election District of Howard
County, Maryland, and the deed and subdivision plat of the property is recorded among the Land
Records of Howard County, Maryland, Tax Map # 0009, Block # _____, Parcel # 0066, Deed
Reference # 24974-79 and Tax Account # 601575 ("the Property").

WHEREAS, The Property is suitable for the installation of a conventional on-site sewage
disposal system with an advanced pre-treatment system, utilizing best available technology to
perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07,
effective November 24, 2016. The pre-treatment device being installed is
Hoot 600.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Property at any reasonable time with prior notice for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County.
- B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.
- D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.
- E. This agreement shall run with the land and upon Owner's taking title to the Property shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as

the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Property that the system shall require maintenance or other attention. Upon taking title to the Property, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

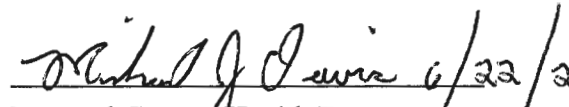
G. This agreement may be voided at any time at the discretion of the County.

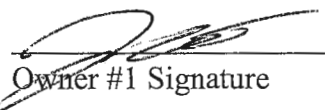
H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed this agreement on the date indicated above.


Howard County Health Department

 5/12/21
Owner #1 Signature Date
Jimmy Anaskova Assignments
Owner #1 Print Name Manager
NV Homes.

DocuSigned by:
Ji S. Kim 11/7/2020
37D300B8F0C43D...
Buyer #1 Signature Date

Ji S. Kim
Buyer #1 Print Name

Owner#2 Signature Date

Owner #2 Print Name

Buyer #2 Signature Date

Buyer #2 Print Name