

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: 10/14/15 **ONSITE SEWAGE DISPOSAL SYSTEM** P 557408

APPROVAL DATE: 11/16/15 SEC **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 2101 Millers Mill Road

SUBDIVISION: Princeton Mill LOT: P/2 TAX ID: 04-320026

CONTRACTOR: Freedom Septic EMAIL: Kristin@freedomseptic.com

CONTRACTOR ADDRESS: 2809 Liberty Road, Sykesville, MD 21784 PHONE: 410-984-6863

CONTRACTOR CERTIFIED FOR BAT INSTALLATION: MDE MANUFACTURER:

PROPERTY OWNER: Clarence McCullough EMAIL: _____

OWNER ADDRESS: 2101 Millers Mill Road, Cooksville, MD 21723 PHONE: 443-829-9222

BAT UNIT MODEL: Norweco 500 PUMP SIZE: n/a PUMP TANK CAPACITY: n/a

OPERATION & MAINTENANCE AGREEMENT DATE SIGNED: 9/18/15 DATE RECORDED: 9/18/15

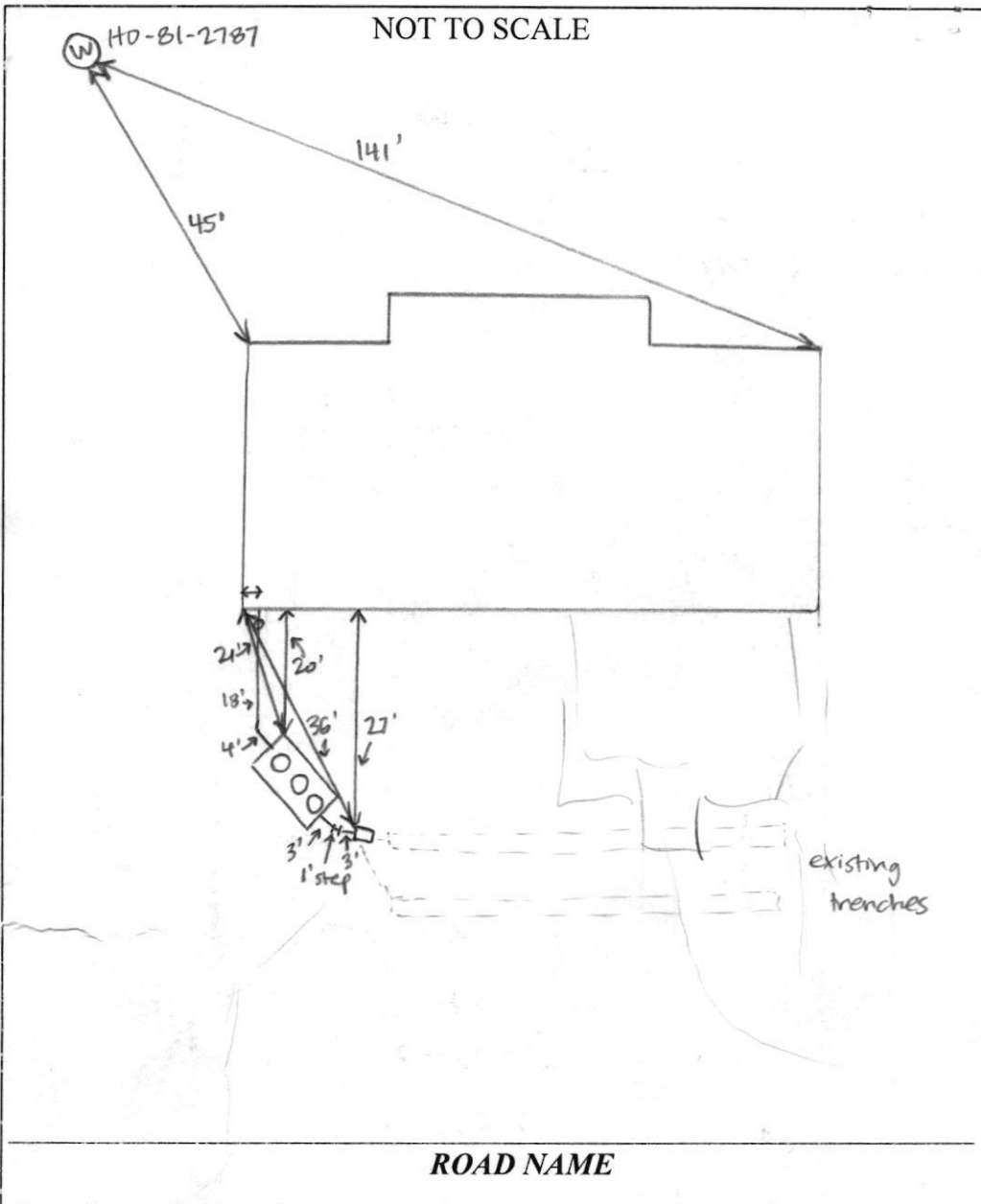
DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 4 APPLICATION RATE: _____

TRENCHES:	LINEAR FEET REQUIRED: _____	INLET DEPTH: _____
	TRENCH WIDTH: _____	MAXIMUM BOTTOM DEPTH: _____
	MINIMUM SPACE BETWEEN TRENCHES: _____	EFFECTIVE AREA BEGINNING DEPTH: _____
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Tank Replacement to connect to existing d-box. Existing tank must be pumped out by licensed handler, crushed and filled.	

ISSUED BY: Jeff Williams ISSUE DATE: 10/14/15 EXPIRATION DATE: 10/14/16

- 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 15005323
- 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.**



TRENCH/DRAINFIELD DATA

WIDTH _____ INLET _____ BOTTOM _____

NUMBER OF TRENCHES _____

TOTAL LENGTH _____

ABSORPTION AREA _____

DISTRIBUTION BOX LEVEL YES

DISTRIBUTION BOX BAFFLE YES

DISTRIBUTION BOX PORT NO

SEPTIC TANK DATA

SEPTIC TANK I LEVEL YES

MANUFACTURER BACKRIVER/NORWECC

CAPACITY 1300 GAL

SEAM LOC TOP

TANK LID DEPTH 2.5-3'

BAFFLES NO

BAFFLE FILTER NONE

MANHOLE LOC FRONT, MID, REAR

6" PORT LOC NONE

WATERTIGHT TEST NO

SLOTTED NO

DATE ON LID _____

~~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:

INSTALLATION: 11/12/15 old tank pumped + collapsed. Dan with Freedom said it looked like a 1000-gallon tank. New pipe run from house to BAT tank. Outlet end of tank packed with dirt. BAT tied into existing D-box - has baffle, leveled speed levelers. BAT is 105' from well. Need BAT startup certification. (SC) 11/16/15 BAT startup certification received. (SC) 12/1/15 on site for Norwecc startup Alarm sounds and aerator is running (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 11/16/15

Back River Pre-Cast, LLC

PO BOX 329
Glyndon, MD 21071
Phone # 410-833-3394
Fax # 410-833-4116

Letter of Certification

This is to certify that the Norweco Singlair TNT 600 GPD Septic Tank installed at 2101 Millers Mill Rd., Cooksville, MD 21723 November 11, 2015 was installed according to the manufacture's specifications.

Installer: Daniel Farrow

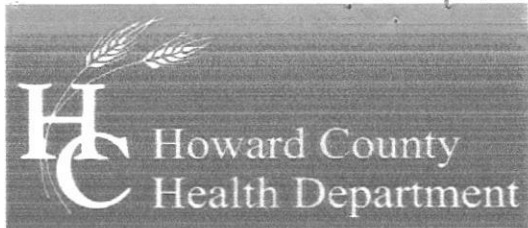
Property Owner: Rainmaker Development, Inc

Permit #



MATTHEW GECKLE

Vice-President



Bureau of Environmental Health

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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

LR - Agreement
 Recording Fee 20.00
 Grantor/Grantee Name:
 howard county
 Reference/Control #: 158
~~LR - Agreement~~
 Surcharge 40.00
 SubTotal: 60.00
 Total: 60.00
 09/18/2015 02:02
 0013-NW
 004 CC0503 -
 Howard Co
 Columbia/CC05.00.00 -
 07

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

THIS AGREEMENT is made this 18th day of SEPT, 2015, among RAINMAKER DEVELOPMENT, INC., 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 2101 MILLERS MILL RD, COOKSVILLE, MD in the 4th Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber 1369 Folio 189

WHEREAS, The Lot 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 January 1, 2013. The pre-treatment device being installed is NORWECO SINGLE-AP MODEL TATLA-100.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the County the right to enter upon the Lot 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 Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as long as the

020923

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 Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, 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 and sealed this agreement on the date indicated above.

Beit Nufen 9/18/2015
Howard County Health Department

RAINMAKER DEVELOPMENT, INC
Owner #1 Signature Date

Scott O'Neil 9/17/15
Owner #2 Signature Date
Owner #1 Print Name SIGNATURE

SCOTT ARTERBUAN, PRINCIPAL
Owner #1 Print Name

Buyer #1 Signature Date

Buyer #2 Signature Date

Buyer #1 Print Name

Buyer #2 Print Name



HOWARD COUNTY HEALTH DEPARTMENT

57408

DATE 11/14/15

Received From

Scott Artchburn & Brumby

PHONE #

443-829-9222

6755 Business Parkway Suite

For

Tooth Replacement BTT - 2101 Millers Hill Rd

CASH

CHECK

NO.

1849

Three hundred ninety six

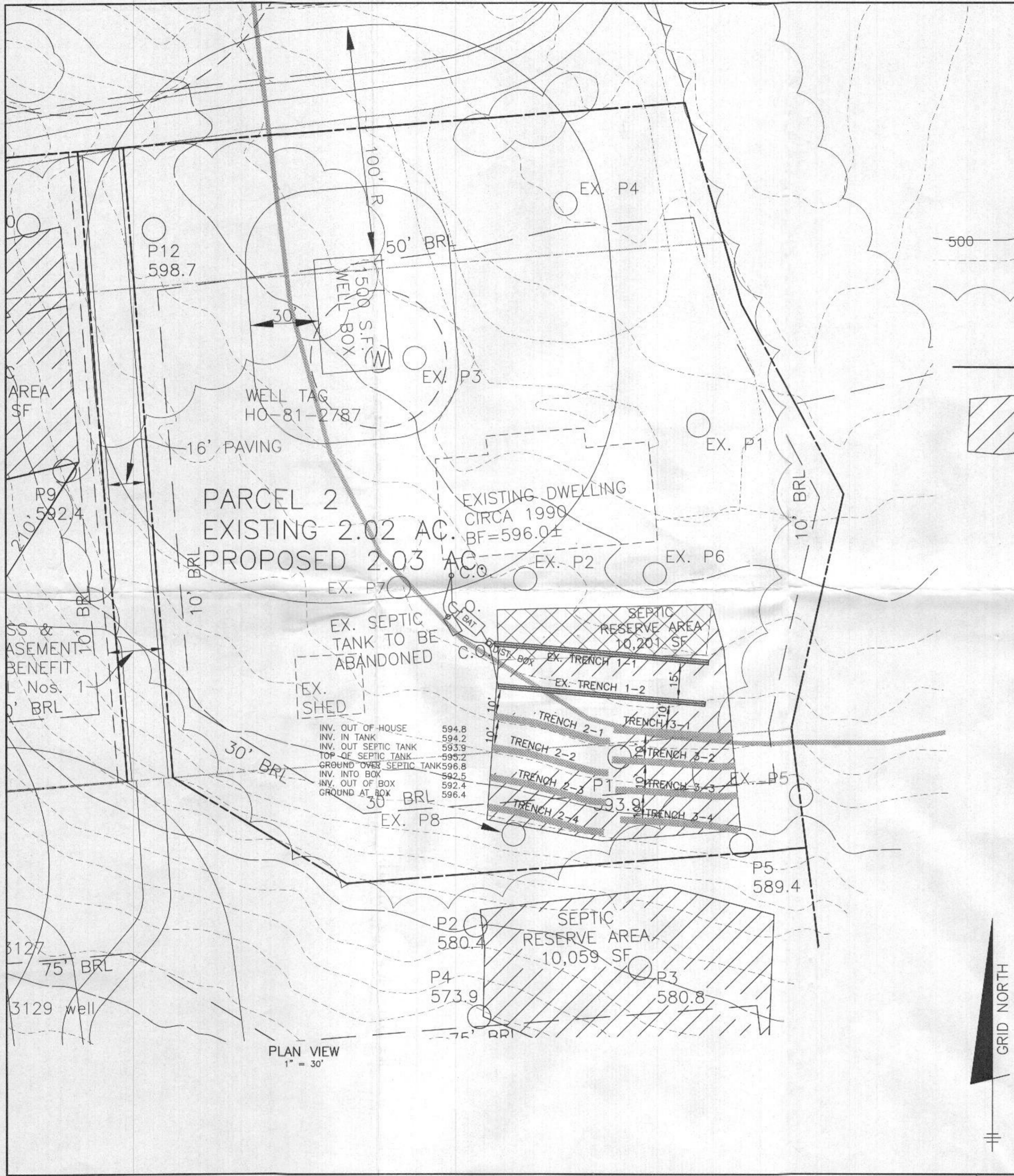
Dollars

\$

396.00

Received By

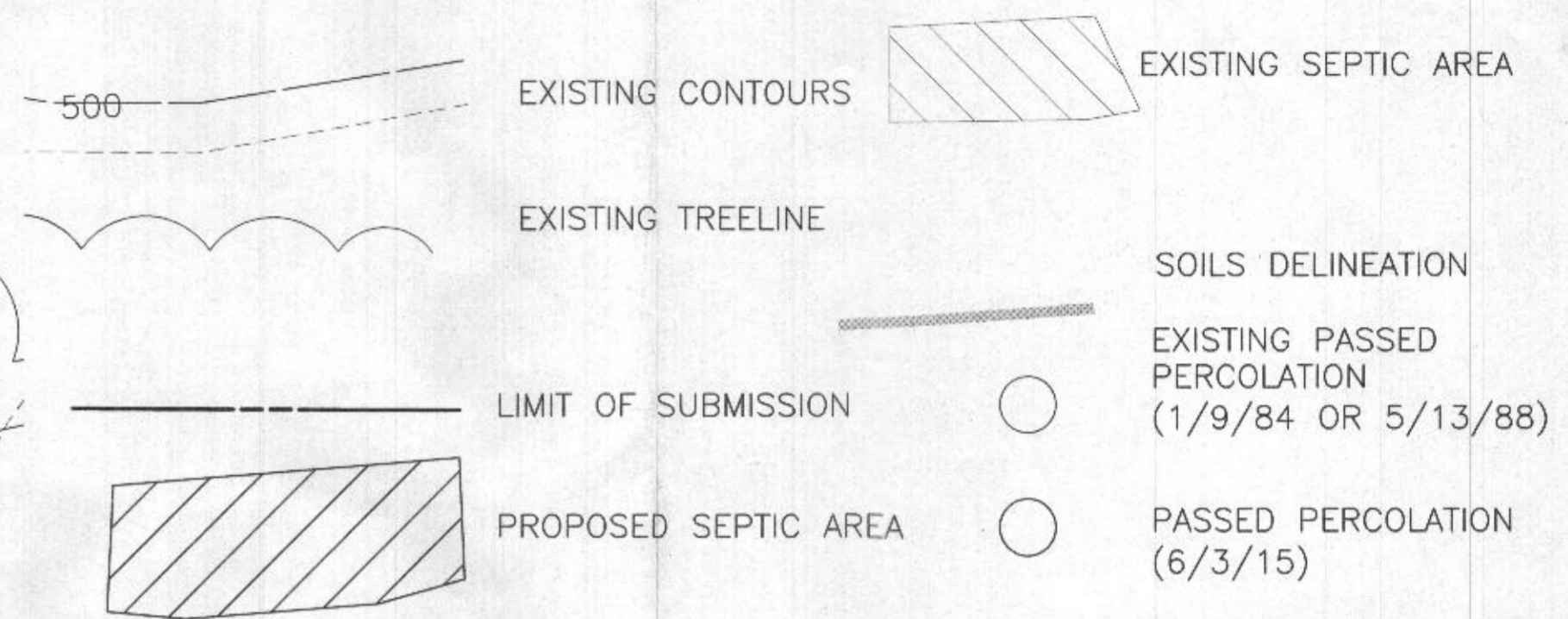
[Signature]



SOILS LEGEND		
MAP SYMBOL	SOIL GROUP	SOIL TYPE
GnB2	C	GLENVILLE, SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
MgC2	B	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
-	-	-

* INDICATES HYDRIC SOILS
 TAKEN FROM SOILS SURVEY, ISSUED JULY 1968, MAP NO. 33

LEGEND



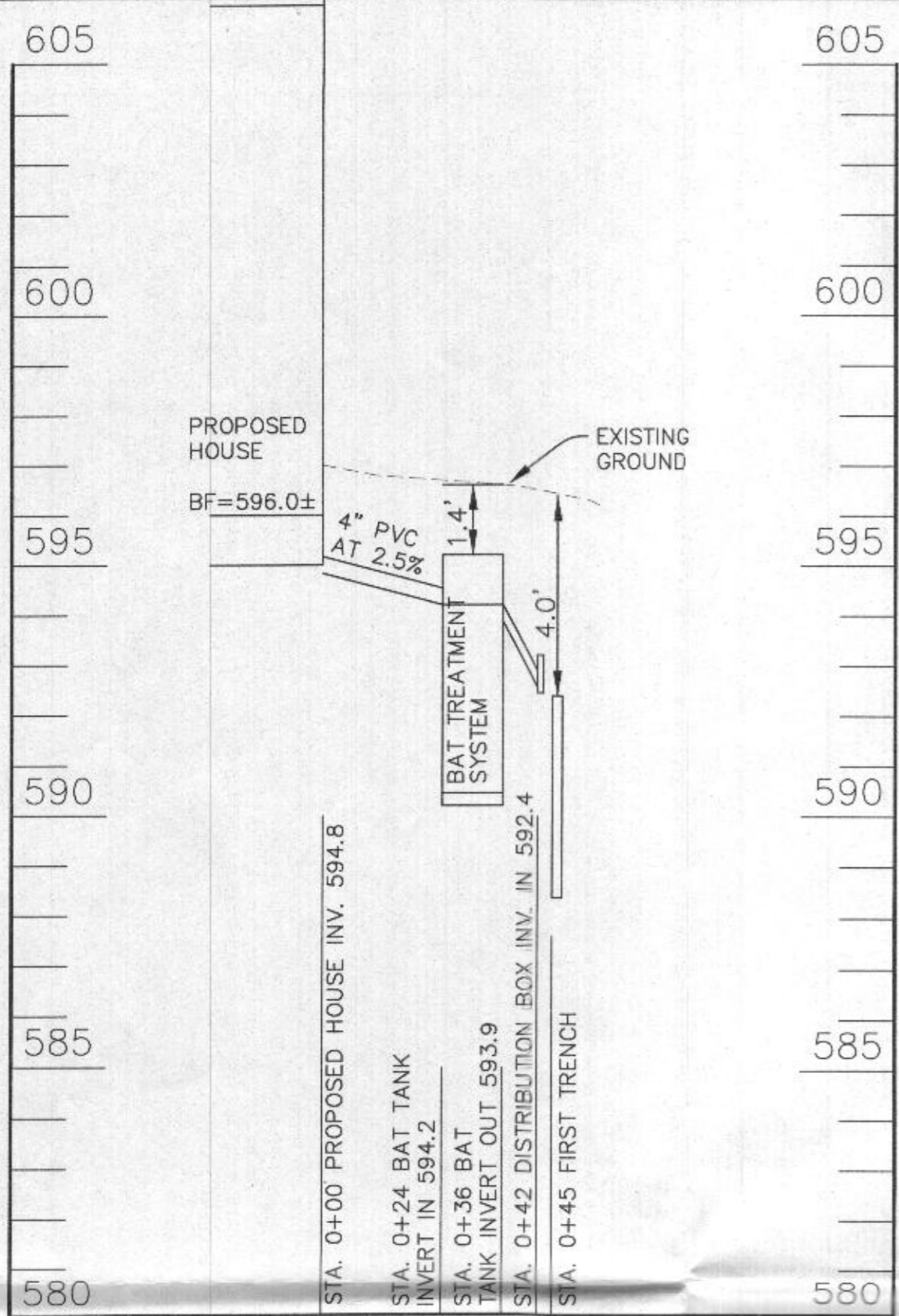
BUILDING PERMIT PLAN NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED AS PARCEL 2 IN A DEED RECORDED AS LIBER 16333 FOLIO 329 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, DATED JULY 10, 2015.
2. SEDIMENT AND EROSION CONTROLS ARE NOT REQUIRED FOR THIS PERMIT PLAN.
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS DEPARTMENT DATA AND FILED RUN TOPOGRAPHY BY BENCHMARK ENGINEERING, INC., DATED JULY, 2015.
4. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
5. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE REQUIREMENTS OF COMAR AND HOWARD COUNTY CODE.
6. THE EXISTING WELL SHOWN ON THIS PLAN, HO-81-2787, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
7. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
8. ANY CHANGES TO A PRIVATE SEWAGE EASEMENT OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

PLAN VIEW
 1" = 30'



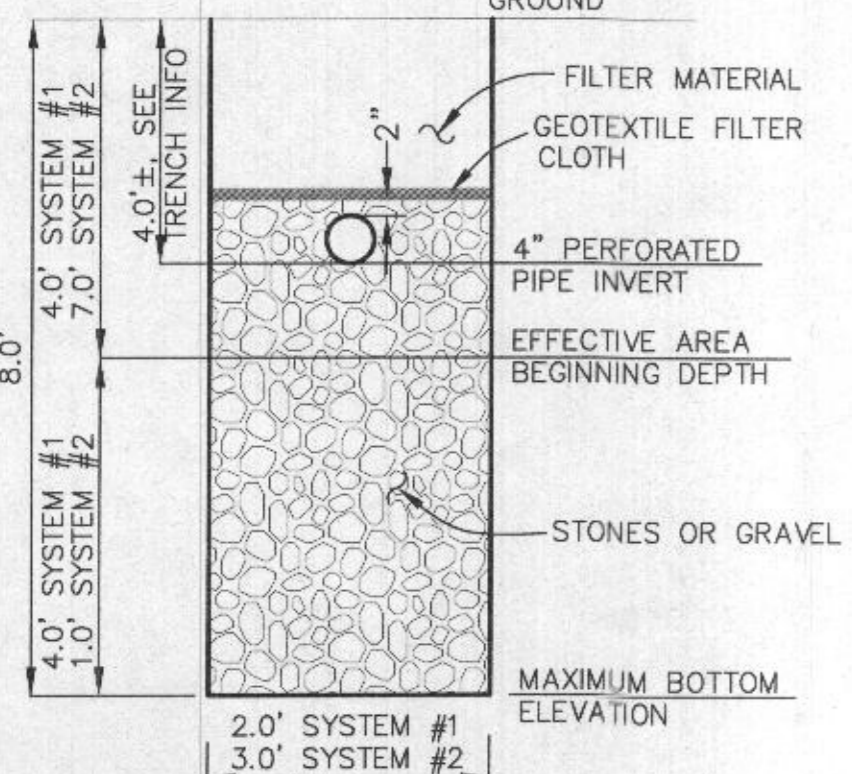
BENCHMARK ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 ▲ FAX: 410-465-6644 BEI@BEI-CIVILENGINEERING.COM		Approved Septic System Plan Howard County Health Department Signature Date	
OWNER/BUILDER:		PROJECT:	
RAINMAKER DEVELOPMENT, INC. 6755 BUSINESS PARKWAY SUITE 103 ELKCRIDGE, MD 21075 410-379-1525		PRINCETON MILL PARCEL 2	
LOCATION:		2101 MILLERS MILL ROAD COOKSVILLE, MD 21723 TAX MAP: 14 GRID: 4 PARCEL: 76 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER: 04-320026	
TITLE:		BAT SITE PLAN	
HOUSE TYPE:		EXISTING HOUSE REMODEL	
DATE:	SEPTEMBER, 2015	PROJECT NO.	2696
DESIGN:	JMC	DRAFT:	JMC
SCALE:	1" = 30'	DRAWING	1 OF 2



SEWER PROFILE
SCALE: VERTICAL 1"=3', HORIZONTAL 1"=30'

TRENCH INFORMATION

TRENCH	LENGTH	GROUND ELEVATION	INVERT ELEVATION	MAX. BOTTOM ELEV.	INVERT. OUT OF HOUSE	INVERT. IN TANK	INVERT. OUT SEPTIC TANK	TOP OF SEPTIC TANK	GROUND OVER SEPTIC TANK	INV. INTO BOX	INV. OUT OF BOX	GROUND AT BOX
TRENCH 1-1	94 LF	596.3	592.3	588.3	594.8	594.2	593.9	595.2	596.8	592.5	592.4	596.4
TRENCH 1-2	91 LF	595.1	591.1	587.1								
TRENCH 2-1	52 LF	590.1	586.1									
TRENCH 2-2	52 LF	592.2	588.2	584.2								
TRENCH 2-3	52 LF	590.3	586.3	582.3								
TRENCH 2-4	52 LF	588.5	584.5	580.5								



TYPICAL TRENCH DETAIL
NOT TO SCALE

INITIAL SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	4	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	937.5	sf
Sidewall reduction credit	0.36	
Trench width	2	
Effective Area Depth	4	
Linear Length of trench Required	170	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	1	gpd/sf
Effective Area Beginning Depth	7	ft
Bottom Max Depth	8	ft
Design Flow	750	gpd
Drainage Field square footage	750	sf
Sidewall reduction credit	0.83	
Trench width	3	
Effective Area Depth	1	
Linear Length of trench Required	208	lf

GENERAL NOTES:

- SINGLAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF, OPERATING 60 MINUTES ON / 60 MINUTES OFF.
- FALL THROUGH SINGLAIR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE.
- TANK REINFORCED PER ACI STD. 318-05.
- REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL LICENSED SINGLAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

CRITICAL DIMENSIONS			
A	1'-0"	N	0'-3"
B	3'-0"	O	0'-6"
C	3'-4"	P	0'-3"
D	4'-5"	Q	1'-4"
E	3'-7"	R	3'-8"
F	12'-2"	S	5'-0"
G	1'-0"	T	2'-0"
H	4'-0"	U	6'-0"
I	0'-3"	V	
J	0'-3"	W	
K	1'-0"	X	
L	0'-2"	Y	
M	3'-6"	Z	

U.S. AND FOREIGN PATENTS PENDING © MMVII

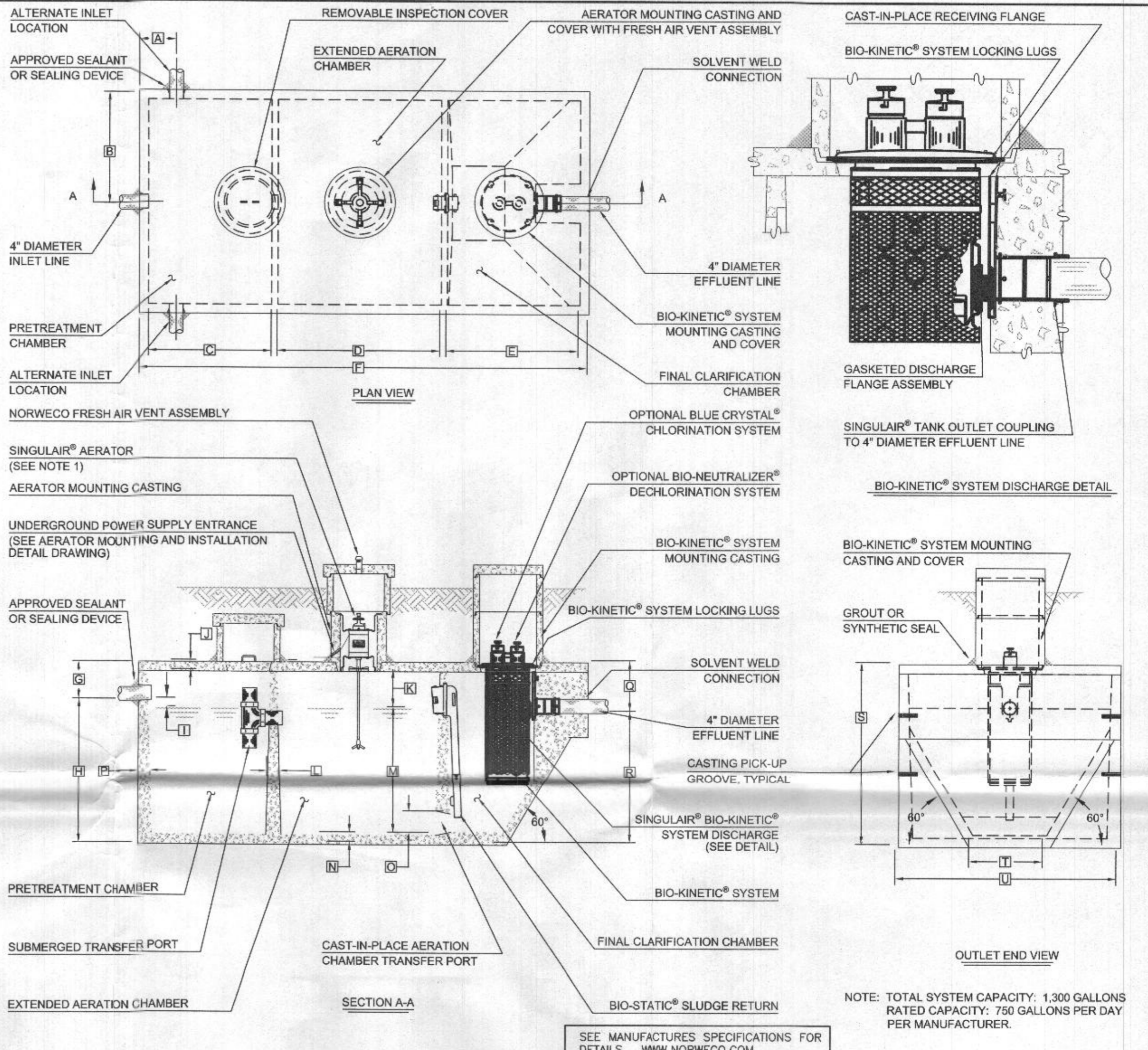
norweco 3-26-07 B

LOW-PROFILE SINGLAIR® BIO-KINETIC WASTEWATER TREATMENT SYSTEM MODEL TNL-P-600 GPD

APPROVED BY: BDS
DATE: 10-16-06
SCALE: NTS
STANDARD: PC-5-7091

Required BAT Site Plan 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 sit plan may be required.
- The maximum depth of the BAT shall be per the manufacturer's specification, 3.0'.
- The blower may not be located further from the tank than the manufacturer's specifications, 75'.
- 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.



SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS. WWW.NORWECO.COM

NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
RATED CAPACITY: 750 GALLONS PER DAY
PER MANUFACTURER.

BENCHMARK ENGINEERING, INC.
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 ▲ FAX: 410-465-6644
BEI@BEI-CIVILENGINEERING.COM

SIGNATURE AND SEAL ARE FOR PROFILE ONLY:
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 45577, Expiration Date: 06-08-2016.

OWNER/BUILDER: RAINMAKER DEVELOPMENT, INC. 6755 BUSINESS PARKWAY SUITE 103 ELK RIDGE, MD 21075 410-379-1525

PROJECT: PRINCETON MILLS PARCEL 2

LOCATION: 2101 MILLERS MILL ROAD COOKSVILLE, MD 21723 TAX MAP: 14 GRID: 4 PARCEL: 76 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND TAX ID NUMBER: 04-320026

TITLE: BAT SITE PLAN

HOUSE TYPE: EXISTING HOUSE REMODEL

DATE: SEPTEMBER, 2015 PROJECT NO. 2696

DESIGN: JMC DRAFT: JMC SCALE: 1" = 30' DRAWING 2 OF 2